



# 15<sup>th</sup> Meeting of the IHO MSDIWG

## Recent Working Group Accomplishments



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# Joint Meetings with UN-GGIM WG-MGI and OGC Marine DWG

International  
Hydrographic  
Organization



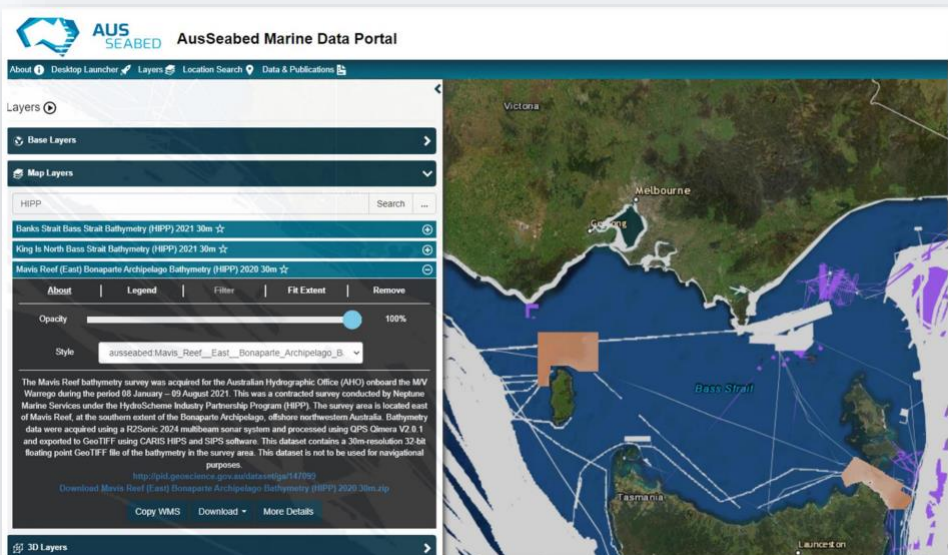
MSDIWG15  
Bali, Indonesia, 4 – 8 March 2024



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# National Initiatives and Presentations

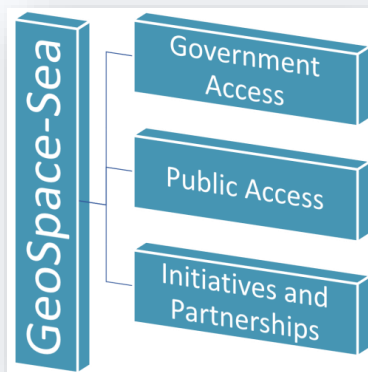
International Hydrographic Organization



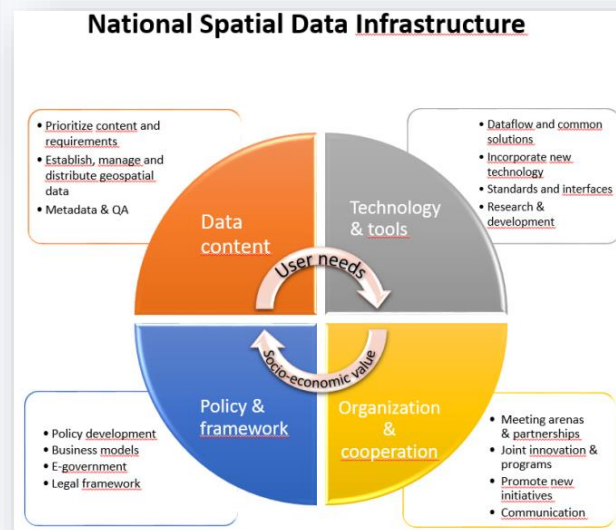
Australia – AusSeabed Marine Data Portal



Italy – Project UP



Singapore – GeoSpace-Sea



Norway - NSDI



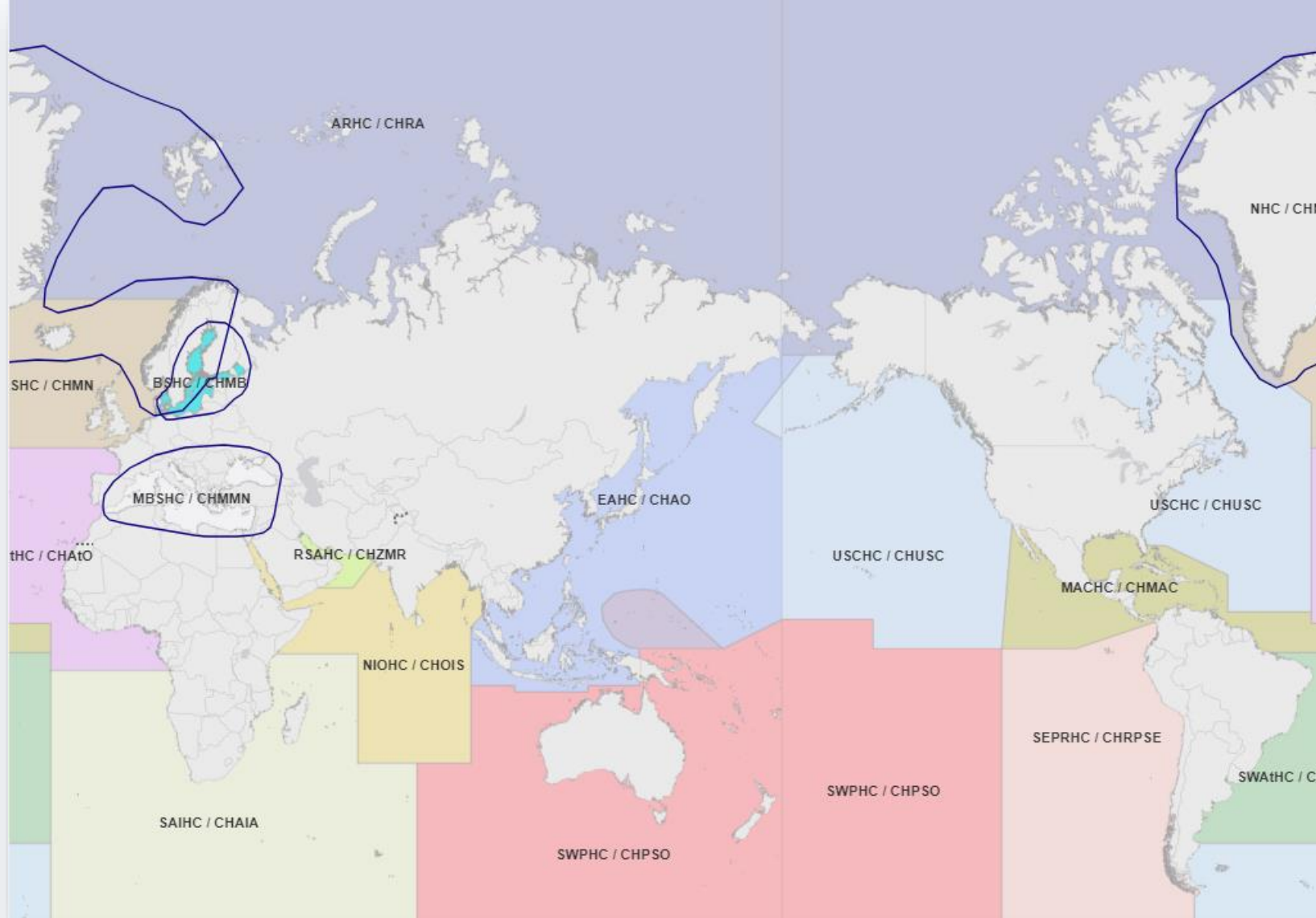
Republic of Korea – Marine Base Map



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# Regional Support via RHC MSDI Working Groups

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# Ever-growing Body of Knowledge

International  
Hydrographic  
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- MSDI training materials
- White papers, MSDI introductory materials
- Data/ open data policies
- Templates
- Links to SDI/ MSDI portals worldwide
- OGC web resources
- OGC projects: CDS, FMMSDI Pilot

## Body of Knowledge

MSDI Training material (in-kind contribution from Denmark) >>>> NEW <<<<

- [Download from the IHO website](#)
- [Download via Dropbox](#)
- [Use the interactive material in Youtube](#)

Marine SDI Documents:

- [Arctic SDI documents](#)
- [IHO-OGC Marine SDI Concept Development Study \(CDS\)](#)
- [White Paper - Realizing the benefits of Spatial Data Infrastructures in the Hydrographic Community](#)
- [SDI/MSDI Related Standards](#)
- [Frequently Asked Questions on SDI](#)
- [SDI Stakeholders](#)
- [Hydrographic Data Policy for SDI](#) (Best practices for Hydrographic Offices)
- [White Paper - The Hydrographic and Oceanographic Dimension to Marine Spatial Data Infrastructure Development Developing the capability](#) (A contribution from the MSDIWG Experts Contributors)

OGC Web Resources >>>> NEW <<<<

- [Practical Guidelines for Developers](#)
- [Expanded resources on OGC API Building Blocks](#)
- [Full Description with links to find sample, code, data \(etc.\) for adopted and soon to be adopted OGC APIs](#)
- [OGC API - Features](#)
- [IGIF MSDI Maturity Roadmap](#)
- [OGC Engineering Reports from past FMMSDI and other initiatives](#)

Miscellaneous:

- [Draft Maturity Assessment Survey](#)
- [Arctic SDI prepared by the Norwegian Hydrographic Service](#)
- [IHO MSDIWG Case Study Template](#)
- [Template for a license agreement embracing rights for the derivation of data](#)
- [Draft of MSDI Use Case Template](#)
- [New Zealand Bathymetry Investigation Report](#) (2015)
- [MSP Governance Framework Report](#) (2014)
- Links to the SDI/MSDI portals worldwide ([access in the MSDIWG Basic Documents](#))
- [UN-GGIM: Online Guide to the Role of Standards in Geospatial Information Management](#)
- [UN-GGIM: Future trends in geospatial information management: the five to ten year vision \(July 2013\)](#)
- [BLAST](#) [Bringing Land and Sea Together] Project
- [Arctic RHC](#): IHO MSDIWG CaseStudy Arctic MSDI Use Case
- [USA GDA](#): U.S. Geospatial Data Act (GDA) of 2018 Fact Sheet
- [USA GDA](#): U.S. Geospatial Data Act of 2018
- [USA GDA](#): U.S. Geospatial Data Act of 2018 Summary

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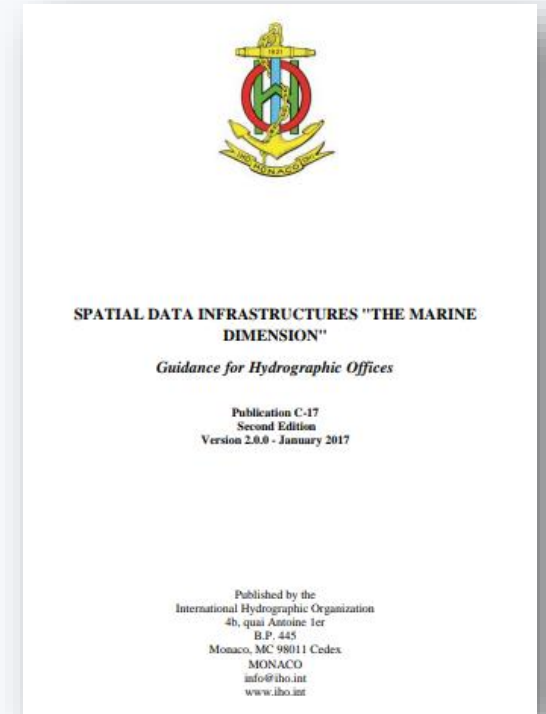


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# Adoption of IHO C-17 v. 3

International  
Hydrographic  
Organization

- MSDIWG11 2020 – Consider the review and update of C-17 v.2 (2017)
- MSDIWG13 2022 – Core drafting team formed
- August 2022 – January 2023 – Drafting team met and compiled updates
- MSDIWG14 2023 – Breakout sessions for members to review and provide comments
- March 2023 – Capacity Building Sub-Committee informed
- IRCC15 (June 2023) – Received IRCC endorsement
- CL 33/2023 (October 2023) – C-17 v.3 adopted!





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MSDI and the  
Digital Twin

Esri Data  
“Hub”

Collaboration  
with science,  
oceanography,  
industry, etc.

# What's next?

C-17 Updates

MORE!

MPA Data  
Layer

S-100 from the  
MSDI  
perspective