Cooperation between Arctic SDI & ARMSDIWG



Access to Land and Marine Data to Face Challenges in the Arctic

UN-GGIM 9th Session
Working Group on Marine Geospatial Information Side Event
5 AUG 2019

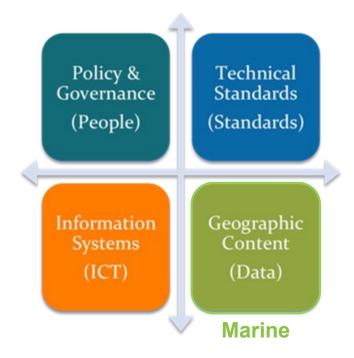


Marine Spatial Data Infrastructure (MSDI)

MSDI

- Element of SDI focused on the marine input.
- A MSDI is not a collection of hydrographic products, but an infrastructure that promotes interoperability of data at all levels (e.g., national, regional, international).
 - Discoverability
 - Accessibility
 - Interoperability
 - Data-centricity (Hydrographic Offices)
- Supports wider, non-traditional user-base of marine data typically used for navigation.
- MSDI Working Group (MSDIWG)
 - International Hydrographic Organization (IHO) working group to deliver IHO MSDI-related policy objectives.¹

MSDI Pillars/Components





Arctic Regional Hydrographic Commission (ARHC)

The International Hydrographic Organization (IHO) has encouraged the establishment of **Regional Hydrographic Commissions** (RHCs) to coordinate hydrographic activity and cooperation at the regional level. RHCs are made up of IHO Member States together with other regional States that wish to participate. RHCs work in close harmony with IHO to help further its ideals and program.

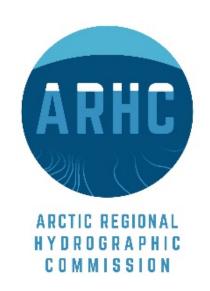
ARHC Members

- Canada
- Denmark
- Norway
- Russian Federation
- United States

ARHC Associate Members Arctic Regional Marine Spatial Data Infrastructures Working Group (ARMSDIWG) established at 6th ARHC Meeting (2016)

Italy









ARMSDIWG

(armz - dē - wīg)

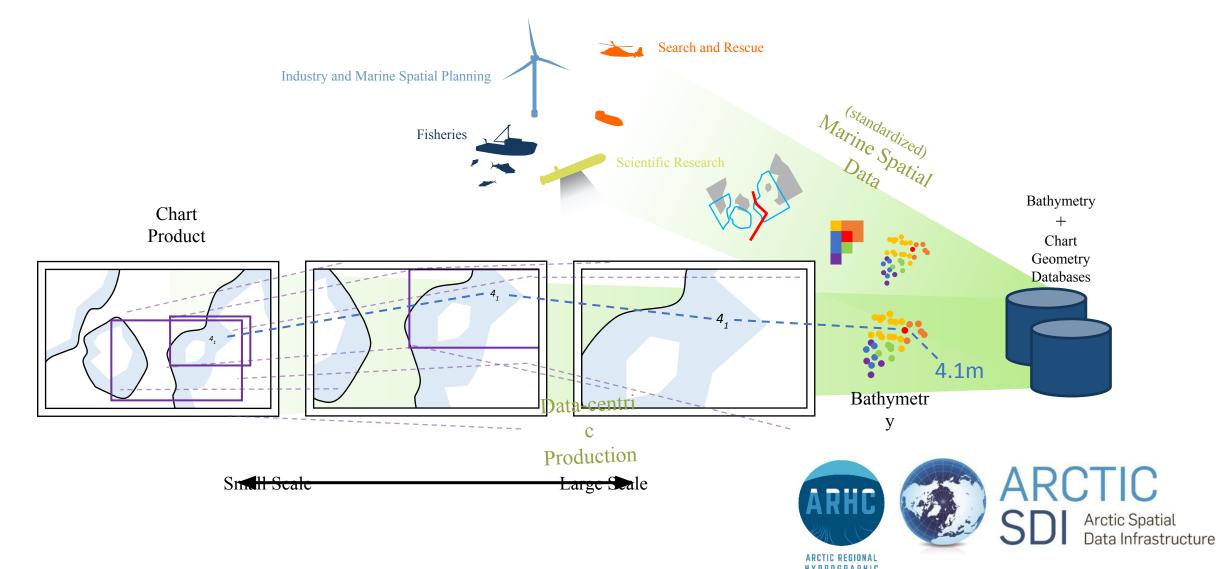
- Identify and assess the statuses of individual MS MSDI implementation.
- Consider MSDI policies in related international projects and cooperate specifically with the Arctic SDI.
- Analyze how maritime authorities can contribute their spatial information and the necessary updates, so information can easily be collated with other information to a current overall picture for the region.
- Focus on how ARHC in the future can benefit from a regional approach.
- Monitor the development of SDI (specifically the Arctic SDI) that could be relevant for the region.
- Monitor the development of relevant and applicable OGC standards and activities through association with the OGC Marine DWG.
- To present a yearly report to the ARHC.



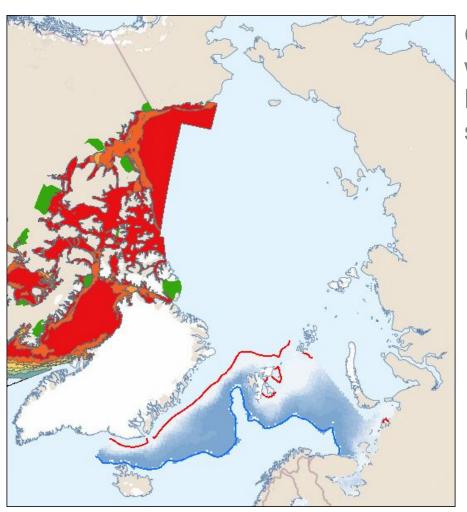
ARMSDIWG 3rd meeting in Reykjavík, Iceland - April 2019



Data-Centric Production and MSDI



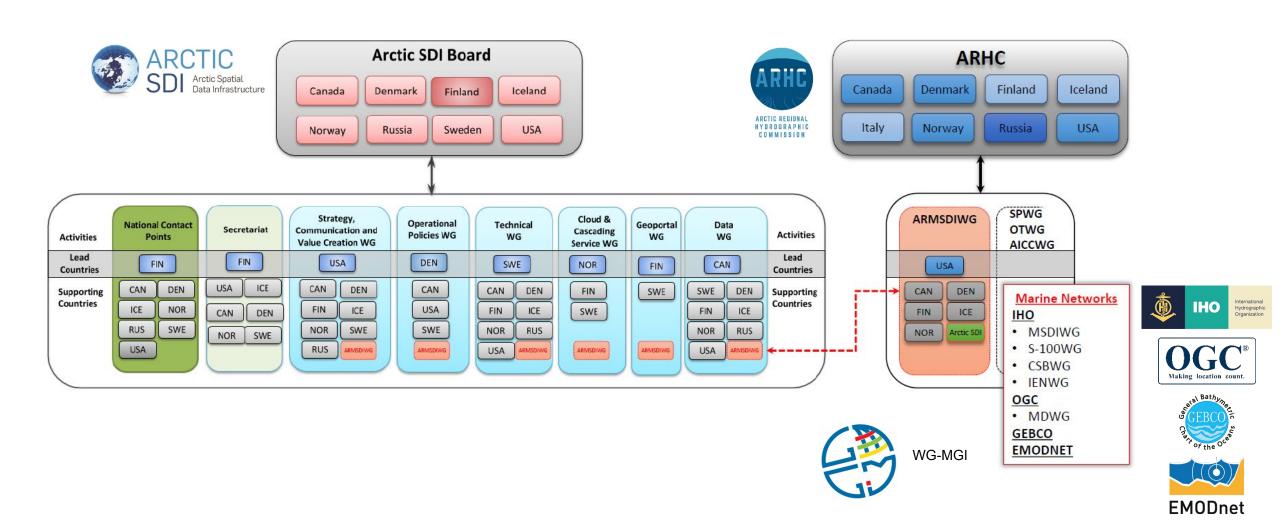
Hydrographic Office Data Reuse



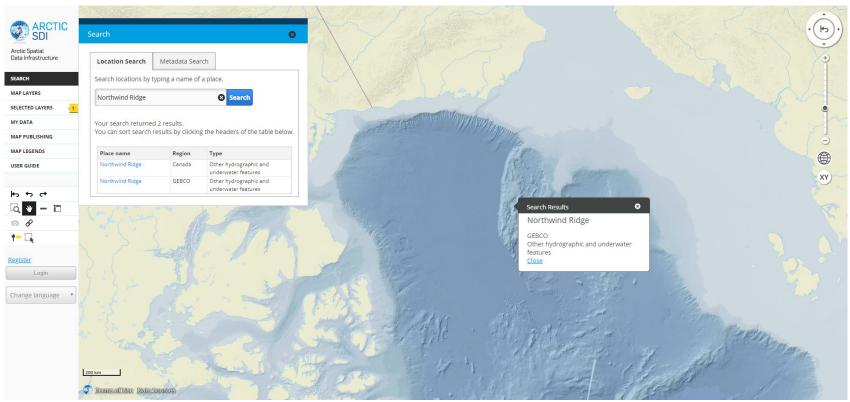
Canadian Arctic Voyage Planning Guide (AVPG) web service displaying in Norway Marine Spatial Management Tool made possible by OGC WMX standards.



Proposed Arctic SDI & ARHC ARMSDIWG Cooperation Structure



Arctic SDI & ARMSDIWG: Marine Networks Data Reuse



Arctic SDI Geoportal displaying
Arctic SDI Basemap, utilizing
International Bathymetric Chart
of the Arctic Ocean (IBCAO), and
the GEBCO Sub-Committee on
Undersea Feature Names
(SCUFN) digital gazetteer
service of the names, generic
feature type and geographic
position of features on the
seafloor.



