

ARCTIC COUNCIL SAO MEETING  
1 - 2 DECEMBER, SALEKHARD, RUSSIA  
MEETING CODE: SAORU201\_2021\_SALEKHARD

DOCUMENT TITLE

Memorandum to Senior Arctic Officials 11/2021

AGENDA ITEM NUMBER

n/a (document submitted for information)

SUBMITTED BY

CAFF Working Group, on behalf of SDI

DOCUMENT FILENAME

SAORU201\_2021\_Salekhard\_SDI-Progress-Report

NUMBER OF PAGES, NOT INCLUDING THIS COVER SHEET

2



## The Arctic Spatial Data Infrastructure (Arctic SDI)

### Background



The Arctic SDI is a joint collaboration endorsed by the Arctic Council. The collaboration involves the eight National Mapping Agencies of the Arctic countries pursuing development of a spatial data infrastructure to support decision-making and efficient solutions for the Arctic region.

The Arctic SDI is working to facilitate a multidimensional digital Arctic providing global access to land, atmosphere and marine Pan-Arctic data provided across multiple domains.

### Arctic SDI Activities

In 2021 the Arctic SDI is following up on its presentation at the November 2020 SAO meeting as well as the 2021 Arctic Council Ministerial Declaration article 52: *...welcome progress on implementing guiding principles on management of and access to data and facilitate that data, generated by the Council, is findable, accessible, interoperable, reusable, and widely shared.*

### 2021 highlights

- Development of a draft *Arctic Council Data Policy* in close cooperation with the Arctic Data Committee (SAON/IASC), involving the Arctic Council Secretariat and Working Groups, the Indigenous Peoples' Secretariat and other stakeholders. A first workshop is planned to be held during the Arctic Science Summit Week in March 2022.
- Development of a *Pan-Arctic Wetlands Inventory Map* within the framework of the CAFF Sustainable Management of Arctic Wetlands Project using a methodology to classify wetlands from satellite imagery. The map will assist the Arctic Council working groups in monitoring and assessment of the extent and changes in distributions of wetlands across the Arctic.
- Contributing to the creation of a comprehensive circumpolar map of Arctic Indigenous languages within the framework of the Arctic Indigenous Languages and Revitalization Project, thus addressing the issue of preservation of the culture and ethnic identity of indigenous peoples of the Arctic.
- Collaborating with International Hydrographic Organization – Arctic Regional Marine Spatial Data Infrastructures Working Group (ARMSDIWG) and Open Geospatial Consortium (OGC) to identify and test Arctic marine data.
- Developing a Joint Statement of Intent with the Arctic Data Committee (SAON/IASC) declaring the common goal to facilitate an infrastructure to connect users, across domains, to the spatial data *and* to align and further develop data policies, in order to promote the open and unobstructed sharing of scientific, mapping and monitoring data from the Arctic.

## Requests to Senior Arctic Officials

The Arctic SDI seeks:

- continued support for outreach activities across Arctic Council Working Groups including cooperation to facilitate adoption of open standards and common data management practices across the Arctic;
- to be on the agenda at the next Senior Arctic Officials meeting to provide a status update on progress and allow for discussion on further opportunities with the Arctic Council.

### Arctic SDI Products and Services

*Arctic SDI's web site* contains strategic documents, information for users including guidelines for data providers and links to the Arctic SDI Services.

The *Arctic SDI Geoportal* provides users with an integrated platform that provides access to

- Arctic SDI Topographic Basemap,
- Arctic SDI Metadata Catalogue Service,
- Arctic SDI Gazetteer Service – new relevant services harvested in 2021: 6.300,
- Selected reference and thematic data from across the Arctic including the Digital Elevation Model,
- Map Tools for users to create their own maps.

### Further information:

Arctic SDI Website – [www.arctic-sdi.org](http://www.arctic-sdi.org)

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