Three party seminar, Nuuk - March 25-28 2014

Arctic Spatial Data Infra Structure – Arctic SDI
Arctic SDI

A cooperation between the mapping agencies of:

- Canada
- Denmark including Greenland and Faroe island
- Finland
- Iceland
- Russia
- Sweden
- USA
Arctic SDI

- 1/6 of the earth’s landmass
- More than 30 million km²
- 8 countries
- 24 hours all time zones
Aim and vision of Arctic SDI

• Arctic SDI will provide access to geo-referenced thematic data over the Artic which means that the data can be related to a reference map across borders of the artic countries
User groups for an Arctic SDI

- The Arctic Council Working Groups:
  - Arctic Contaminants Action Program (ACAP)
  - Artic Monitoring and Assessment Programme (AMAP)
  - Conservation of Arctic Flora and Fauna (CAFF)
  - Emergency Prevention, Preparedness and Response (EPPR)
  - Protection of the Arctic Marine Environment (PAME)
  - Sustainable Development Working Group (SDWG)

- Research institutions
- Government and governmental authorities
- Citizens including NGOs
- Private Enterprises and business
Main content of the Artic SDI

The Artic SDI is an infrastructure that provides a web portal with easy access to:

- Reference data as a Web Map Service
- Thematic data (birds, icecover, ship routes, land cover change, flora etc.)
- A searchable metadata-catalogue
Use of the Artic SDI

- Research
- Planning
- Political processes
- Public administration and management
- Emergency prevention
- Business development
# Arctic SDI Board

The Arctic SDI Board is an international forum for the development and implementation of standards and services for digital infrastructure in the Arctic. It is composed of representatives from eight countries: Canada, Denmark, Finland, Iceland, Norway, Russia, Sweden, and the USA.

## Structure

The board is structured into several sections, each responsible for different aspects of the Arctic SDI:

1. **National Contact Points**
2. **Secretariat**
3. **Communication**
4. **Strategy 2015-2022**
5. **Operational Policies**
6. **Technical Working Group**
7. **Cloud & Cascading Service**
8. **Geoportal**

### Activities

- **Lead Countries**
- **Supporting Countries**

### Supporting Countries

- **CAN**
- **SWE**
- **USA**
- **FIN**
- **NOR**
- **DEN**

### Lead Countries

- **CAN**
- **SWE**
- **USA**
- **FIN**
- **NOR**
- **DEN**

### National Contact Points

- **ALL**
- **CAN**
- **SWE**
- **USA**
- **FIN**
- **NOR**
- **DEN**
## Activities and division of work

<table>
<thead>
<tr>
<th>Activity</th>
<th>Lead country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secretariat for the chair of the board and chair of the national contact point</td>
<td>Canada</td>
</tr>
<tr>
<td>Communication, website ect.</td>
<td>Norway</td>
</tr>
<tr>
<td>Tecnical working group</td>
<td>Sweden</td>
</tr>
<tr>
<td>Development of legal/adm. operational policies</td>
<td>Denmark</td>
</tr>
<tr>
<td>Development of Arctic SDI strategy 2015-2010</td>
<td>USA</td>
</tr>
<tr>
<td>Establish and operate Arctic SDI Web Map Service</td>
<td>Norway</td>
</tr>
<tr>
<td>Artic SDI Web Portal for reference map and thematic data – including the CAFF-data</td>
<td>Finland</td>
</tr>
</tbody>
</table>
Implementation

Ultimo 2014:

• Web portal
• Web map service
• CAFF thematic data
For at få punktopstilling på teksten (flere niveauer findes), brug >Forøg listeniveau -knappen i Topmenuen.

For at få venstrestillet tekst uden punktopstilling, brug >Formindsk listeniveau -knappen i Topmenuen.
ISO 19115 / INSPIRE architecture
## Different levels

Building on OGC standards

<table>
<thead>
<tr>
<th>Level</th>
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<th>View</th>
<th>Download</th>
<th>Transform</th>
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<tr>
<td>Standards</td>
<td>HTML5</td>
<td>WMS, WMTS</td>
<td>WFS, WCS</td>
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<td>Providers</td>
<td>GeoNetworks</td>
<td>GeoServer, Mapserver</td>
<td>GeoServer, Mapserver</td>
<td>?</td>
<td>?</td>
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