WP5 Task 5.6:
iAOS portal and the data catalogue

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Objective: Provide: (1) access to all data generated with support from INTAROS in the other workpackages (WP2-6); (2) a common entry point for selected datasets collected or generated as part of other project and relevant datasets from other Arctic data systems; (3) links to services from INTAROS and spin-off projects.

Major results 2020

iAOS Portal

https://portal-intaros.nersc.no/

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INTAROS Data Catalog

INTAROS Datasets Organizations Themes About Search

Search data

E.g. environment

Popular tags CBM citizen science ocean temperature

INTAROS Data Catalogue statistics

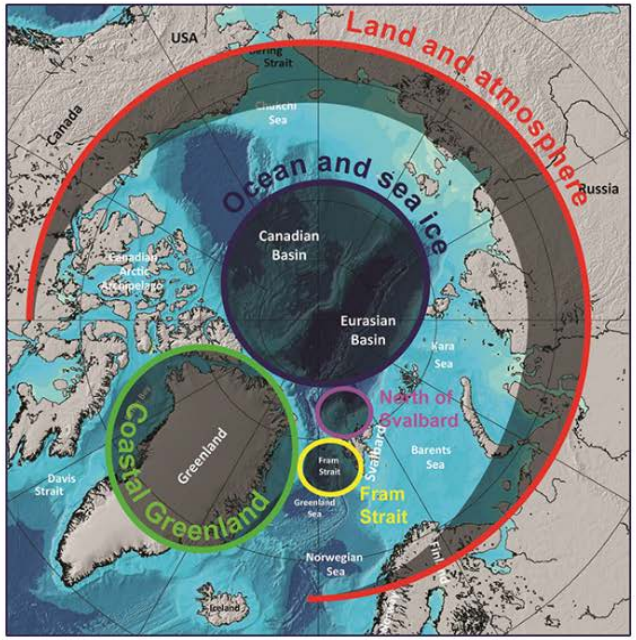
129 datasets **36** organizations **0** themes

Community Based Monitoring datasets and programs

INTAROS is working closely with several local communities and citizen science programs across the Arctic. In one of these programs, INTAROS partner GEUS is collaborating with the municipality in Qeqertalik, Greenland, to collect information on seismic activity. A pilot program with seismic stations operated by local community members have been established, and the data collected feeds into the Raspberry Shake Community and the GEUS' earthquake bulletin A data portal shown in image below gives access to the seismic data from this community. This and other CBM datasets can be found here.

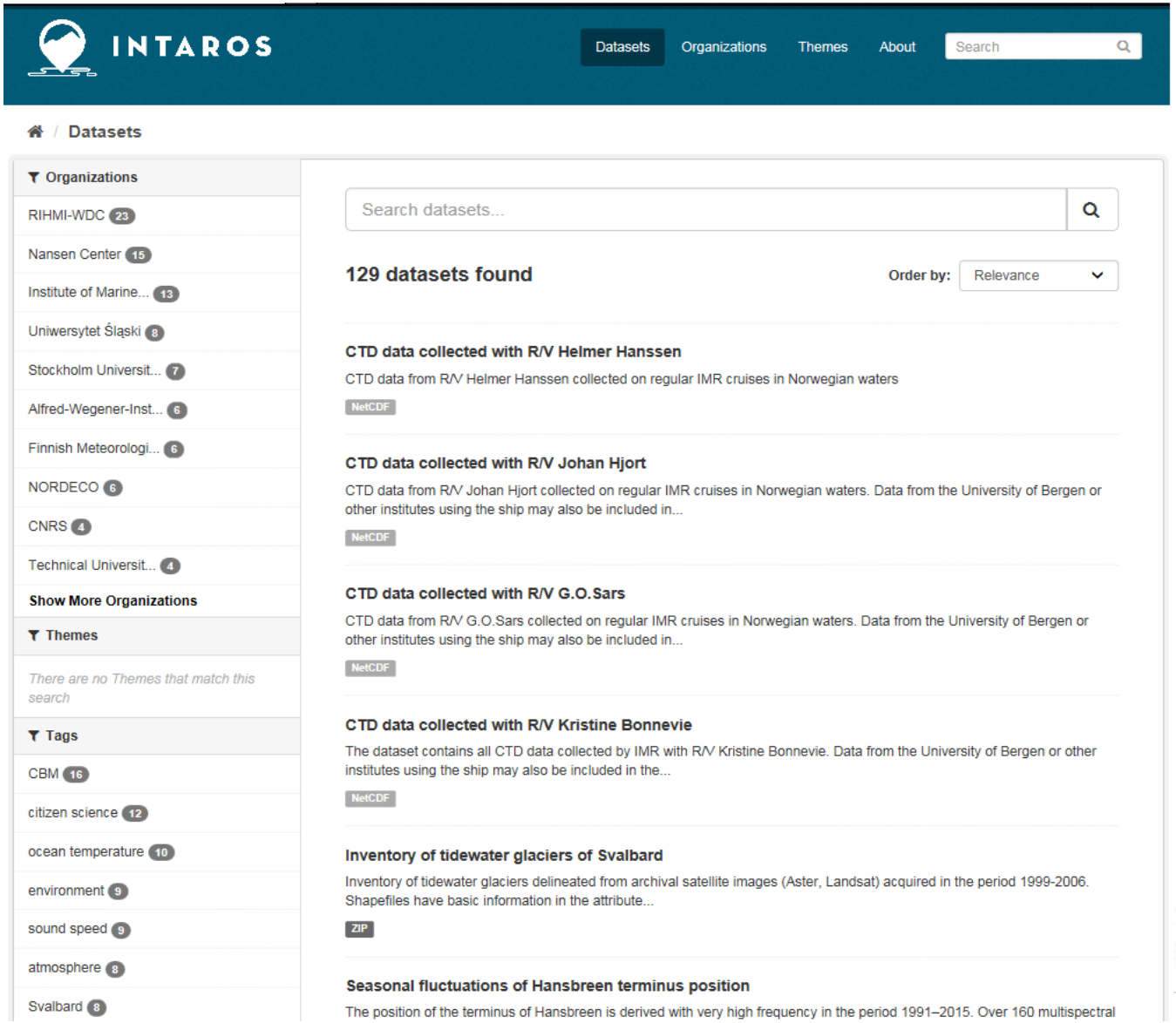
Welcome to the INTAROS data catalogue

INTAROS collects data within key regions of the Arctic, and provides access to these datasets and other datasets of relevance to our targeted stakeholders. This Data Catalog contains descriptions of colleced, derived and estimated datasets that are generated wihtin the project.



https://catalog-intaros.nersc.no/

INTAROS Data Catalog



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INTAROS Data Catalog

Show More Formats

Licenses

- Creative Commons At... 98
- License not specified 19
- Other (Open) 7
- Other (Attribution) 4
- Other (Non-Commercial) 3
- Creative Commons At... 2
- Open Data Commons A... 1
- Open Data Commons O... 1
- Other (Public Domain) 1

NetCDF

NORWECOM.E2E simulation, blue whiting distribution 2010-2069

Climate change represents a potential threat for sustainable growth in aquaculture and fisheries worldwide. In ClimeFish www.climefish.eu, the growth of the most important and...

NetCDF

NORWECOM.E2E simulation, mackerel distribution 2010-2069

Climate change represents a potential threat for sustainable growth in aquaculture and fisheries worldwide. In ClimeFish www.climefish.eu, the growth of the most important and...

NetCDF

NORWECOM.E2E simulation, herring distribution 2010-2069

Climate change represents a potential threat for sustainable growth in aquaculture and fisheries worldwide. In ClimeFish www.climefish.eu, the growth of the most important and...

NetCDF TAR

Mooring data from the Barents Sea Opening – Atlantic Water inflow

Temperature and current time series data from the Barents Sea Opening for the period August 1997 to April 2017. The mooring array were deployed by Institute of Marine Research...

NetCDF

Spotter Pro Marine Mammal Records

Spotter Pro is a global citizen science program using an app for recording marine mammals from ships of opportunity. The dataset can enable a better understanding of whale...

Sea Ice for Walrus Outlook

The Sea Ice for Walrus Outlook (SIWO) is a resource for Alaska Native subsistence hunters, coastal communities, and others interested in sea ice and walrus. The SIWO provides...

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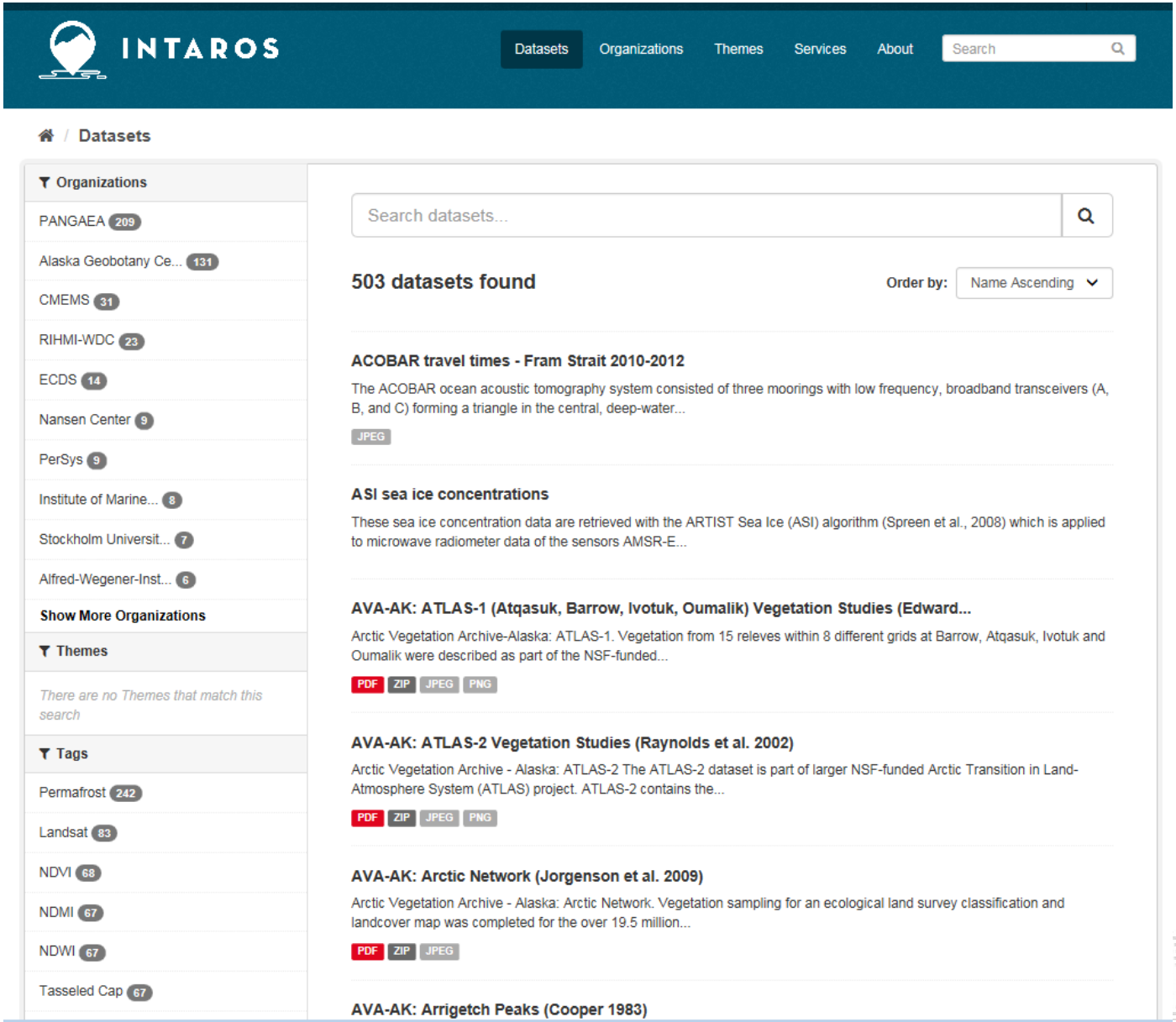
iAOS Portal



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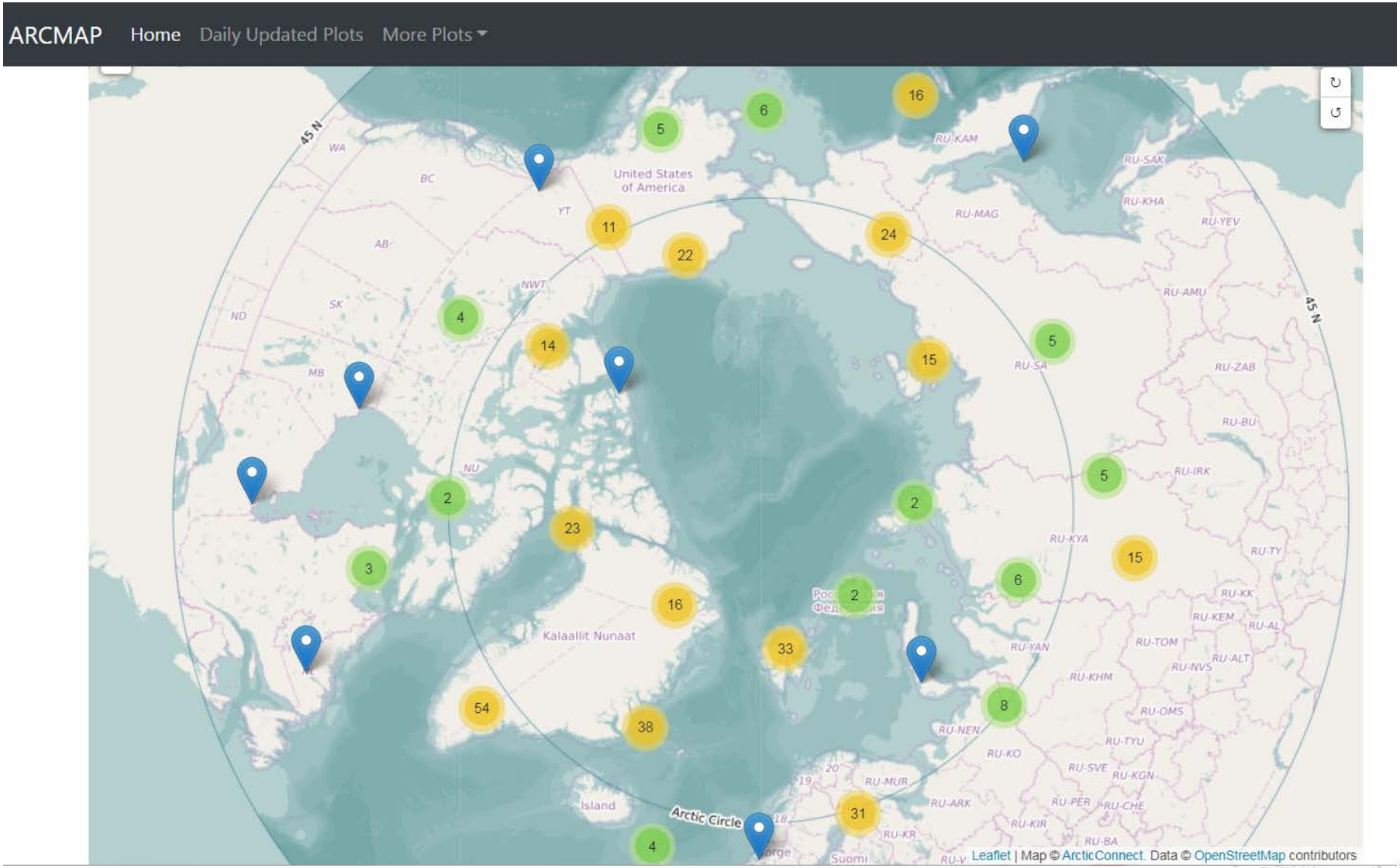
ARCMAP



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Delays and mitigation measures

Delays and mitigation measures

- Portal development
  - Build on same framework as the data catalog
  - Integrate INTAROS Data Catalog and ARCMAP
  - Focus effort on metadata harvesting
- Increasing number of datasets in the catalog
  - Continue contact and support of data providers in INTAROS
- Spin-off project Arctic Mapping
  - Intensified development (usability, plots, maps)
  - Registration of >50 new obs.systems (Non-EU partners)
  - Engage new communities (ocean acoustics)

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Data registration and access

Data registration and access

- Statistics for INTAROS Data Catalog:
  - 129 datasets registered (vs 48 at GA 2020)
  - Data access: 113 datasets
  - DOI assigned: 27 datasets
  - In progress (metadata private): 7 datasets
- Some recent datasets:
  - Long time series of CTD data from IMR's research vessels
  - Glacier data from Svalbard (Univ.Slaski)
  - Mooring data from Barents Sea Opening (IMR)
  - NORWECOM model results for fisheries in WP6 (IMR)
  - CBM datasets from WP4 (NORDECO, GEUS, FMI)
  - UAK 2020 Summer school and INTAROS 2018 CTD data (NERSC, IOPAN)
  - Atmospheric data from Oden Arctic expeditions (MISU)

Exploitation of the results

Exploitation of results

- iAOS Portal and INTAROS Data Catalog
  - Promotion of partners' and collaborators' datasets
  - New formats for ocean mooring data
  - Interoperability between (selected) data repositories
  - Spin-off and new projects (e.g. ARCMAP, Digital Arctic Shipping)
- Datasets generated by INTAROS, e.g.
  - UHAM's Ocean-Sea Ice Synthesis from 2007-2016 (T6.3)
  - IMR's CTD sections from RVs (T5.4, T5.5, WP6)
- Datasets from external providers, e.g.
  - CMEMS SIC (T5.5, T6.3)

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Plan for completion of work

Work plan 2021 (Task 5.6)

- Workshops (online) for marine ocean mooring data
  - Start with existing data formats (e.g. IMR's NetCDF for Barents Sea Opening mooring data)
  - Engage partners working with ocean mooring data
  - Help with formatting and selection of repositories assigning DOIs
- Registration of new datasets in the INTAROS catalog
  - Follow up data providers and support registration
- Implementation of themes (groups) in data catalog and portal
- Integrate & visualise more external data (harvest metadata)
- Link to services in iAOS Cloud Platform or Jupyter Hub
- D5.12 iAOS portal with user manual V2 (due 31 May)

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