Context

There is a strong need for better information on the state and changes in the Arctic marine environment. Climate change in the Arctic is significant and will have far-reaching consequences for marine life and sustainable industrial development in the Arctic. Direct measurements (in situ) of the marine environment in Arctic waters are necessary to estimate the state and changes in the marine environment.

Objectives

Develop a web-based survey application that can be used to collect updated information about Arctic in situ observing systems and their collected data.

Background

INTAROS defined a set of questionnaires for surveying in situ observing systems in the Arctic, their data collections as well as remote sensing-based products and community-based monitoring data. The “Marine data in the Arctic” spin-off project will build on and extend these questionnaires to conduct a survey in Norwegian waters in the Arctic.

Arcmap application

Arcmap enables scientists and infrastructure operators to register their observing systems, along with collected datasets and derived products. The information can be updated at any time and used to generate statistics of e.g. coverage, parameters, access and funding sources.

Arcmap can be accessed from https://ci.nersc.no

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Open source framework for online surveys

Arcmap is developed in Python and JavaScript using open source frameworks Django and wq. The application can be run in a common web browser; no additional plugins are needed.

References


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