The SeaDataNet infrastructure for marine and ocean data management: is a major pan-European infrastructure for ocean and marine data and gives access to high quality multidisciplinary data

Key words
standards for metadata and data formats
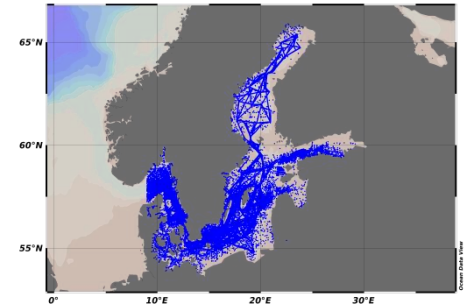vocabularies
software tools
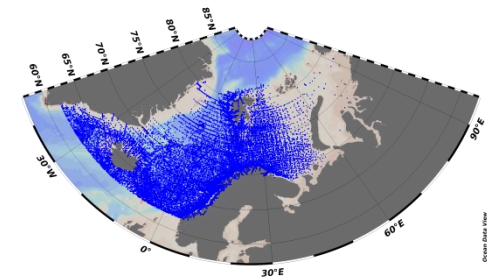
Ocean and marine domain

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Active since 2006, it involves more than 110 data centres and it makes available more than 2 million datasets. The SeaDataNet portal offers different services: discovering, visualisation, access and data downloading as well as data products and metadata services. The data provided has a good quality, checked by the data producers, experts in the specific domains and the infrastructure's information system.

Viewing service for a selection of data

Main goal: sharing of ocean data with the broadest community possible to increase the opportunity of a better understanding of the sea by promoting data re-use and global collaborations

Selling points: The infrastructure is focused on the users' need. It had been realised and improved over the years thanks to different European projects that have seen the participation, since the beginning of the design, of some scientists in the oceanographic community. Developments and changes are based on users' feedback received directly and by some surveys. Data is in standard formats that are widely used, included a textual format. This enable the easy sharing of ocean data in an effective and interoperable way.

Innovation: The infrastructure is going to offer a virtual research environment that includes on line services for analysis, quality control, data sub-setting, visualisation of retrieved datasets, generation and publication of data products.

Coming soon......

CLOUD SERVICES
VIRTUAL RESEARCH ENVIRONMENT
MySeaDataCloud ACCESS SERVICE

DATA SERVICES
Common Data Index (CDI)
Data Discovery &
Access service
Vocabulary services (NVS 2.0)

ENVRI
community

How does the SDN infrastructure serve the society?

It delivers services to different groups: the data providers and the portal users interested in using the infrastructure services and ocean data

Marine data centres that want to promote and distribute their data through the SeaDataNet infrastructure can benefit of a long term data preservation, tools for data management and all the other services offered.

The end-users can use a large amount of high quality marine data, most of them are unrestricted, as well as data products. Furthermore, the SDN infrastructure offers information about the data centres that are active in collecting data, presents their engagement in European projects, giving also a summary of measurements and samples taken during cruises. All this information together becomes knowledge about who did what, when and where in the European seas and gives chances for future collaborations in research or in the private sector.