Marine Network for Integrated Data Access Contact: Angela.Schaefer@awi.de and Roland.Koppe@awi.de

Data Portal German Marine Research

Coastal research needs common data infrastructures Underway

Marine and coastal research has developed from local and sporadic limited measurements to long-term surveys and monitoring campaigns - consequently to the data-intensive and integrative science of today. The linkage of data and access to data beyond disciplinary boundaries became essential for marine research and coastal management. Therefore sufficient national and international data infrastructures are fundamental for central and easy access to the variety of existing, but distributed datasets in marine and coastal research.

The Marine Network for Integrated Data Access - MaNIDA provides a national networked approach in accessing and mining of federated marine research data infrastructures together with data management strategies and data workflows. In that course the consortium conceptualized and developed the a data portal for coherent discovery, view, download and dissemination of scientific data and publications.

The Data Portal German Marine Research is based on a central harvesting and interfacing approach by connecting distributed data sources. Since the German network of content providers have distinct objectives and mandates for storing data and information (e.g. long-term data preservation, near real time data, publication repositories), we have to cope with heterogeneous metadata in terms of syntax and semantic, data types and formats as well as access solutions. Therefore we defined a set of core metadata elements which are common to our content providers and useful for discovery and building relationships. Existing catalogues for various types of vocabularies are being used to assure the mapping to community-wide used terms. The web application allows browsing by e.g. monitoring platforms, vessels and date for exploring data and research gaps. Data-related information is homogenously presented to the user and adaptable to specific disciplines. Data access and dissemination information is available as direct access or web services or data download link.





The data portal provides an integrated framework for coherent discovery, visualisation, download, and dissemination of scientific data originating from nationally operated research platforms and monitoring facilities (vessels, observatories, campaigns, web services). Our data providers cooperate in the Marine Network for Integrated Data Access (MaNIDA)



Author

König-Langlo Gert (12485) WOCE Upper Ocean Thermal, UOT WOCE Surface Velocity Program, SVP (4582) Golubey, Valery A (3787) Zuyev, Aleksey N (3780)

See more

Platform

Polarstern (12248) Meteor (1986) (1794) Thomas G. Thompson (1727) Meteor (1964) (1628) on (1150)

http://manida.awi.de/

station (25) earch vessel (16) met (12) ferrybox (10) Musenze, Ronald buoy (6) more facets. tsv details * Operator Continuous mete Helmholtz-Zentrum Geesthacht Musenze, Ronald tsv details Physical ocea Voelker, Antje HL

tsv

tsv

Alfred Wegener Institute for Polar and Marine Research (26) undesamt fur Seeschifffahrt und Hydrographie (12) GEOMAR - Helmholtz-Zentrum für Buoy Jade1 Ozeanforschung Kiel (4) Leibniz-Institut für Buoy List1

Platform

Alkor

(IOW) (1)

Helmholtz-Zentrum Geesthacht Dallmann Alfred Wegener Institute for Polar and Marine Research (24) Bundesamt für Seeschifffahrt und Hydrographie (12) indesministerium für Bildung und Forschung (4) em (2) more facets.

Operator GEOMAR - Helmholtz-Zentrum Schleswig-Holstein für Ozeanforschung Kiel Biologische Anstalt Helgoland Alfred Wegener Institute for Alfred Wegener Institute fo Polar and Marine Research Polar and Marine Research Helmholtz-Zentrun Buoy BunkerHill1 Helmholtz-Zentrum Geesthacht Helmholtz-Zen Buoy DarsserSch Buoy Hoemum! mholtz-Zer Geesthacht Helmholtz-Zentrum Geesthacht Helmholtz-Zentru Helmholtz-Zen Helmholtz-Zentrun Buoy PanamaColon Geesthacht Alfred Wegener Institute for Alfred Wegener Institute fo Polar and Marine Rese Polar and Marine Research Elisabeth Mann Borger Laihnis Institut für Mecklenburg-Vorp ung Ferrybox at Cuxhaver Helmholtz-Zentrun Helmholtz-Zentrum Geesthacht Geesthacht Ferrybox at FINO3 Helmholtz-Zentrum Geesthacht Helmholtz-Zentrum Geesthacht

Expedition: consistent meta data (platform, harbour stations, devices, ...), one central master catalogue, international meta data and cruise reports

Validation: from near real time data and raw data to primary data and published data product, community specific, defined quality flags and data levels

Archiving: COSYNA - near real time data, PANGAEA – data publications and long-term archival, DOD/BSH national data base (NODC), internal institutional data bases (e.g. bathymetry, ...)

Publication: PANGAEA – DOI-citable and crossreferenced with scientific publications, institutional publication repositories of partners

Consortium. Marine Network for Integrated Data Access www.manida.org





+

Helmholtz-Zentrum Geesthacht \bigcirc Zentrum für Material- und Küstenforschung

(ICBM)



