Join the SeaDataNet Community

Computer experts, specialised technicians, oceano-graphers, marine researchers, scientists and data managers from 35 countries support marine related activities for society. A valuable semi-distributed in-formation system that is easily expandable.

Marine data producers have an instrument that ea-ses the publication of data, eliminating technological barriers due to lack of internal IT (Information Tech-nology) staff. On request any data producer can give international visibility to his data using *ad-hoc* tools, a well documented procedure for data and metadata production, as well as a quality check method and the experience of the helping technical staff.

Take advantage in data sharing

Users involved in research and marine based activities such as government and economic development may enlarge their working opportunities searching for in-formation in more than 1.7 milion data files and in the provided services. Any user, after registering for free, may have access to data, 85% being freely available. The remaining 15% data have access restrictions and the user has to make arrangements with the data pro-vider to negotiate access for downloading.

SeaDataNet as a model

The technologies and standards developed in the project have been adopted by the following European projects: Black Sea Scene, CASPINFO (Caspian envi-ronmental and industrial data & information service), EMODnet (The European Marine Observation and Data Network) for the thematics Bathymetry, Chemi-stry, Geology and Biology. Interoperability with other data portal like GEOSS (Global Earth Observation Sy-stem of Systems) and IODE-ODP (International Oce-anographic Data and Information Exchange-Ocean Data Portal) has also been developed.

SeaDataNet II Partners

IFREMER (Coordinator) (France)	**RBINS-BMDC** (Belgium)
MARIS (Deputy & Technical Coordinator) (Netherlands)	**VLIZ** (Belgium)
	MRI (Iceland)
NERC-BODC (UK)	**FIMR** (Finland)
BSH-DOD (Germany)	**IMGW** (Poland)
SMHI (Sweden)	**MSI** (Estonia)
IEO (Spain)	**LHEI** (Latvia)
HCMR-HNODC (Greece)	**EPA** (Lithuania)
OGS (Italy)	**SIO-RAS** (Russian Federation)
RIHMI-WDC (Russian Federation)	**MHI-DMIST** (Ukraine)
ENEA (Italy)	**IO-BAS** (Bulgaria)
INGV (Italy)	**NIMRD** (Romania)
METU-IMS (Turkey)	**TSU-DNA** (Georgia)
CLS (France)	**IOF** (Croatia)
AWI (Germany)	**NIB** (Slovenia)
ULg (Belgium)	**UoM** (Malta)
IMR (Norway)	**OC-UCY** (Cyprus)
ICES (International)	**IOLR** (Israel)
NERI (Denmark)	**CNR** (Italy)
IES-JRC (International)	**IBSS** (Ukraine)
MI (Ireland)	**UniHB** (Germany)
IHPT (Portugal)	**TUBITAK** (Turkey)
NIOZ (Netherlands)	

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A EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT

EU SEVENTH FRAMEWORK PROGRAMME (FP7)
CONTRACT N° 283607

SeaDataNet

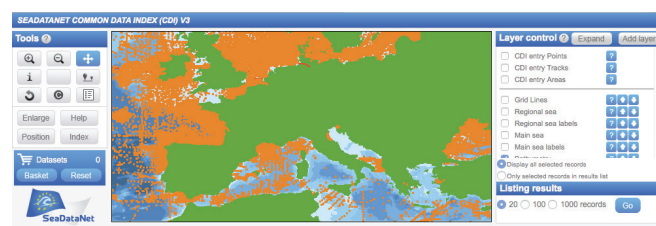SEVENTH FRAMEWORK PROGRAMME

European Union

Data resources available

Multidisciplinary data are available in the following fields: physical oceanography, chemistry, geology, geophysics and biology in common data formats using standardised vocabularies.

Data services

The SeaDataNet portal offers different services: discovering, visualisation, access and data downloading. SeaDataNet combines many different instruments to pool, share and distribute marine data in an interoperable way. It provides a unique point of access for downloading data residing in distributed repositories, in compliance to the Infrastructure for Spatial Information in the European Community (INSPIRE) directive. Through an easy to use interface it is possible to search for data and view the results by utilizing interactive maps and by searching for specific properties. The system allows archiving and long-term preservation of marine data collection for future re-use. The standardised metadata help other users to interpret and manage data.

Data discovery interface

Metadata Services

EDMO *(European Directory of Marine Organisations)*
An up-to-date overview to marine data centres in Europe and the main marine research institutes.

CSR *(Cruise Summary Reports)*
An inventory for current and historical data collection activities made during cruises.

EDMED *(European Directory of Marine Environmental Data)*
Devoted to large dataset descriptions.

EDMERP *(European Directory of Marine Environmental Research Projects)*
A catalogue of research projects related to the marine environment.

EDIOS *(European Directory of Oceanographic Observing Systems)*
An inventory giving an insight into marine monitoring programmes in Europe, relevant for the Marine Strategy Framework Directive (MSFD).

CDI *(Common Data Index)*
The data discovery and access service enabling the users to have a complete overview of the availability and geographical distribution of marine data in SeaDataNet. The CDI follows the ISO 19139 Schema.
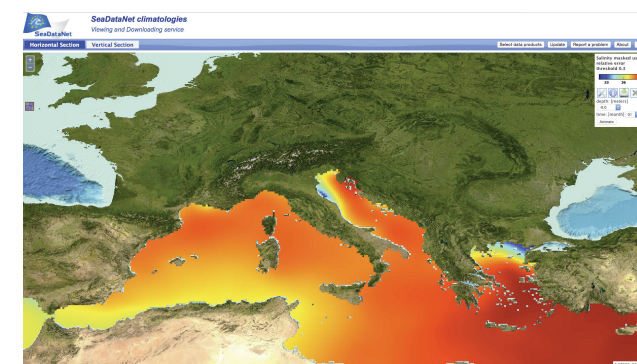

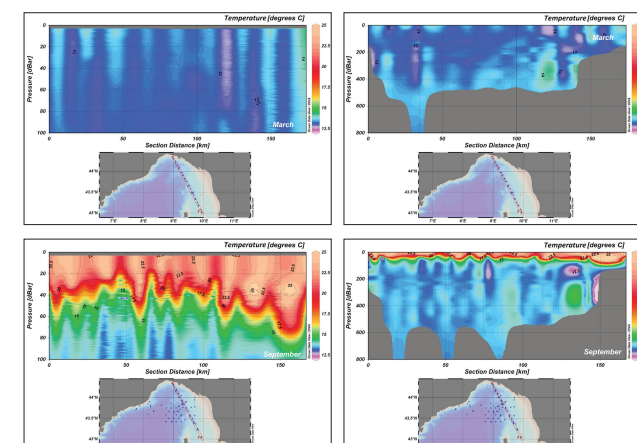*Marine European Research Project - Discovery interface*

Data products

SeaDataNet prepares and publishes basic products as aggregated sets of observational data, model data and images.
The regional centres (Mediterranean, Black Sea, North Atlantic ocean, North seas, Baltic and Arctic) develop statistical products as, for example, monthly and seasonal averaged and interpolated data derived from the datasets present in the portal.
The products are available for free together with specialised browsing, visualisation and downloading services, developed in the frame of the project.

Salinity masked using relative error threshold 0.5 displayed by OceanBrowser

Examples of data analysis made by ODV software