EMODnet

Ingestion and safe-keeping of marine data

emodnet-ingestion.eu

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18 May 2017
EMD Poole (UK)
About EMODnet

**EMODnet**, the European Marine Observation and Data Network, has over 160 organisations that work together to assemble and harmonise marine data, metadata and products, making them more accessible to Blue Society.
EMODnet central portal

www.emodnet.eu
EMODnet context

Thanks to EMODnet, marine data now have their “ONE-STOP-SHOP“

easy to find, freely available, interoperable & reliable

Quality controlled & accurate data of the maritime environment are critical to underpin the sustainable growth of Blue Society.

However, many data collected by

public authorities
researchers
private operators of coastal or offshore facilities

- still do not arrive to the national or regional repositories
- are unavailable to scientists, engineers and other potential users.
EMODnet Ingestion and safekeeping objective

“To develop and operate a new EMODnet portal with services that facilitate and streamline the process whereby marine data from whatever source is delivered on a voluntary basis for further processing and safekeeping by data repositories and subsequent distribution through EMODnet thematic portals”

Using a dedicated portal from which specific data set handling processes are initiated.

Relying on 100+ existing data managing organizations in EMODnet: 44 Partners and other organisations involved in EMODNet lots: NODCs, Hydrographic Offices, Geological institutes, Biological institutes, Marine research institutes ...

Targeting data providers & their data that are not yet handled or part of the mainstream processes of these data repositories
EMODnet principle of ingestion data flow

The EMODnet Ingestion services will serve all EMODnet thematic portals for streamlining incoming data sets

External Data Providers

For more info, please visit www.emodnet-ingestion.eu
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External Data Providers → Data Ingestion Portal → Data Centres

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External Data Providers | Data Ingestion Portal | Data Centres | EU Infrastructures | EMODnet portals

For more info, please visit [www.emodnet-ingestion.eu](http://www.emodnet-ingestion.eu)
Submission form on website

EMODnet Data Ingestion Portal
Data Submission Service

Data Types

DATASET COLLECTION AND PROCESSING INFORMATION

Project / Programme
CINCS - Pelagic-Benthic Coupling in the Oligotrophic Cretan Sea (NE Mediterranean)

Summary of processing methodology

OBSERVATIONS

Observation Type
Water column temperature and salinity
Administration and dimensions

* = Required
Submission process in more detail

User registers MarineID

Authentication + Authorisation

Data Submission service, incl tracking service

Data Submitter
- Completes 1st part + uploads data package

Contact

Data Centre
- Reviews copy of data package and 1st part form and completes 2nd part of submission form + log

Submission form part 1

Submission form part 1

Submission form part 2

Processing log

Ready + Submit

Data package incl documents

Copy of data package incl documents

Ready + Publish

URL and unique IDs

EMODnet Ingestion cloud

Public Discovery and Access service
- Metadata and downloading of original data packages

Under development

EMODnet
How to identify relevant new marine data

- The **challenge** is to identify relevant marine data providers that are **not yet routinely submitting data sets** to national data repositories and to convince and help them to submit their data packages for open access and use in national repositories and EMODnet.

- The **priority** for exploring external data sets will be set by the EMODnet Thematic portals that are interested in a specific collection of data types.

- All project partners will **analyse** the situation in their country and identify potential data sources and their providers for the different data themes, taking into account the priorities.

- **Promotion and marketing** will be essential and will be a combination of central and networked activities, involving all partners and thematic portals, and also promoting specific use cases such as monitoring data from offshore wind farms.
Ways to involve industry
1. Pull: Demonstrate added value

- Through the use of value adding EMODnet dataproducts attract industry partners to participate and share their own data to be used in the products
- Educate datamanagement at national level and in national workshops
- Cooperate and demonstrate successful use cases

Monitoring data from windfarms in the Dutch North Sea sector

Renewable energy development data in the UK (Crown Estate)
EMODNet products relevant for industry

EMODnet bathymetric product

EMODnet physics overview of all operational stations

Share your data to improve this product?
2. Push

- National legislation to stimulate public data sharing of monitoring data for governmental contracts, OWE licensing etc.
  => Our experience: Data is often already shared but ends up in the wrong place, not in a clear central archive/data center.

- Point at societal responsibilities of industry e.g. related to climate change (Good will)
3. Promotion and dissemination campaign
WAKE UP YOUR DATA
Set them free for Blue Society

The European Marine Observation and Data Network (EMODnet) consists of more than 140 organisations that together work on assembling, harmonising and making marine data, products and metadata more available to public and private users. This Data Ingestion portal facilitates additional data managers to ingest their marine datasets for further processing, publishing as open data, and contributing to applications for society.

In the Netherlands sector of the North Sea already a number of offshore wind farms is operational and new developments for additional wind farms are well underway. Establishing and operating an offshore windfarm requires licenses from the Dutch government. This includes that windfarm operators are required to undertake marine environmental monitoring activities for gathering long time series and samples of relevant parameters for physical oceanography and marine biology. These ecology dataset collections are collected as part of the license and can serve studying possible effects of the construction and exploitation of the windfarms on their effects of the construction and exploitation of the windfarms on their environment. The latter includes also that these data is shared with public authorities for possible marine site analyses.

However, in practice these monitoring activities were falling somewhat outside of the normal pathways and an effect did not take the formal marine data management processes. Therefore, Rijkswaterstaat Wilde Wieren, together with Deltares, introduced EMODnet Data Ingestion, made an ingestion into safeguarding the datasets.
WAKE UP
YOUR DATA
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The Data Ingestion Portal facilitates submitting marine datasets for further processing, Open Data publishing and contributing to applications for society.

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EMODnet Data Ingestion

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