



EMODnet



European Marine
Observation and
Data Network

Centralisation overview

16th EMODnet Steering Committee
27-28 April 2022

EMODnet Central Portal technical team

New Corporate Look



fome



News



EMODnet at Oceanology International 2022
On 15-17 March 2022, EMODnet attended Oceanology International in London bringing together over 8,000 attendees and 500+ exhibitors from

Events



European Maritime Day 2022
The European Maritime Day (EMD) is the annual two-day event during

Centralisation: Static Content - Update

Portal	Inventory	Mapping	Content creation/update
Bathymetry	EM-306 - Content Inventory Bathymetry DONE 100 pages/links	EM-396 - Mapping Bathymetry Portal content to Central Portal DONE 7 dedicated Bathy pages needed to be merged/created in CP	EM-508 - Create "NEW" Bathymetry page on CP (dev) IN REVIEW Result: 1 page
Biology	EM-307 - Content Inventory Biology Portal DONE 176 pages/links	EM-397 - Mapping Biology Portal content to Central Portal DONE 10 dedicated Biology pages needed to be merged/created in CP	EM-500 - Create "NEW" Biology page on CP (dev) IN REVIEW Result: 2 pages
Geology	EM-321 - Content Inventory Geology DONE 51 pages/links	EM-410 - Mapping Geology Portal content to Central Portal DONE 4 dedicated Geology pages needed to be merged/created in CP	EM-501 - Create "NEW" Geology page on CP (dev) IN REVIEW Result: 1 page
Human Activities	EM-308 - Content Inventory Human Activities Portals DONE 98 pages/links	EM-435 - Mapping Human Activities Portal content to Central Portal DONE 1 dedicated HA page needed to be merged/created in CP	EM-504 - Create "NEW" Human Activities page on CP (dev) IN REVIEW (portal) Result: 1 page

Centralisation: Static Content - Update

Portal	Inventory	Mapping	Content creation/update
Seabed Habitats	EM-318 - Content Inventory Seabed Habitats DONE 107 pages/links	EM-411 - Mapping Seabed Habitats Portal content to Central Portal DONE 4 dedicated SBH pages needed to be merged/created in CP	EM-502 - Create "NEW" Seabed Habitats page on CP (dev) IN REVIEW Result: 2 pages
Physics	EM-319 - Content Inventory Physics DONE 53 pages/links	EM-441 - Mapping Physics Portal content to Central Portal DONE 0 dedicated pages	EM-509 - Create "NEW" Physics page on CP (dev) IN REVIEW (portal) Result: 1 page
Chemistry	EM-320 - Content Inventory Chemistry DONE 236 pages/links	EM-505 - Mapping Chemistry Portal content to Central Portal DONE 12 dedicated pages needed to be merged/created in CP	EM-506 - Create "NEW" Chemistry page on CP (dev) IN REVIEW (portal) Result: 6 pages

Bathymetry Example



Energy, Climate change, Environment

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Bathymetry - Demo 2

EMODnet Bathymetry provides a service for viewing and downloading the best available harmonised Digital Terrain Model (DTM) for the European sea regions, together with a range of other bathymetric data, products, and services. The DTM is generated and regularly updated by the EMODnet Bathymetry partnership using an increasing number of bathymetric data sets. Services for discovery and requesting access to these data sets are provided and maintained as well.



A harmonised EMODnet Digital Terrain Model (DTM) has been generated for European sea regions (36W, 15N, 43E, 90N) from selected bathymetric survey data sets, composite DTMs, Satellite Derived Bathymetry (SDB) data products, while gaps with no data coverage are completed by integrating the GEBCO Digital Bathymetry.

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EMODnet-Bathymetry provides a service for viewing and downloading a harmonised Digital Terrain Model (DTM) for the European sea regions. The DTM is generated by the EMODnet Bathymetry partnership. Services for discovery and requesting access to these data sets are provided as well.

Objectives

EMODnet Bathymetry aims to provide a **single access** point to **bathymetric data** (survey data sets and composite DTMs), and **derived bathymetric data products** such as **best-estimate European digital coastlines, inventory of official coastlines and baselines, a series of high-resolution DTMs for selected areas, and the EMODnet Bathymetry World Base Layer OGC web service. Its flagship data product is the harmonised Digital Terrain Model (DTM) for all European sea regions with a common grid resolution** which is generated and regularly updated on the basis of an increasing collection of bathymetric data sets, gathered from organisations from government, research institutes, and industry. This DTM is updated every 2 years and made available in the EMODnet Mapviewer, by OGC web services, and by downloading in multiple formats for use in GIS systems and as baselayer for numerical hydraulic models.

Approach

EMODnet Bathymetry is undertaken by a gradually expanding consortium of organisations from marine science, governmental departments, national hydrographic services, and industry. They combine expertises and experiences of collecting, processing, and managing of bathymetric data together with expertises in distributed data infrastructure development and operation and providing OGC services (WMS, WFS, and WCS) for viewing and distribution.

They bring together bathymetric data sets from in-situ surveys, composite DTMs, and Satellite Derived Bathymetry products, which are managed and described in INSPIRE compliant catalogue services, such as the SeaDataNet CDI data discovery and access service for survey data sets and the SeaDataNet Sextant catalogue for composite DTMs.

Moreover, an effective production workflow has been designed and deployed in accordance with international standards for generation and distribution of the EMODnet Digital Terrain Model (DTM) for all European sea regions and for referencing its input data sets. Survey data and Composite DTMs are pre-gridded and pre-processed to the required EMODnet grid, resolution and format by data providers, using the standard GLOBE software. This is followed by Regional Coordinators, each round upgrading Regional DTMs, and each supported by a regional group of data providers. They are responsible for a quality assessment and selection of the data contributions and the

New GeoNetwork

- Version 3.8.3 Implementation complete
- DCAT plugin-> allows EU Open Data Portal to harvest EMODnet catalogue
- Final version deployed and ready to move to production
- Schedule harvest cycle CSW endpoints, for all lots

New Central ERDDAP



ERDDAP (test) server @ VLIZ
Easier access to scientific data

English
Brought to you by VLIZ

ERDDAP

ERDDAP is a data server that gives you a simple, consistent way to download subsets of scientific datasets in common file formats and make graphs and maps. This particular ERDDAP installation has oceanographic data (for example, data from satellites and buoys).

Easier Access to Scientific Data

Our focus is on making it easier for you to get scientific data.

Different scientific communities have developed different types of data servers.

For example, OPeNDAP, WCS, SOS, OBIS, and countless custom web pages with forms. Each is great on its own. But without ERDDAP, it is difficult to get data from different types of servers:

- Different data servers make you format your data request in different ways.
- Different data servers return data in different formats, usually not the common file format that you want.
- Different datasets use different formats for time data, so the results are hard to compare.

ERDDAP unifies the different types of data servers so you have a consistent way to get the data you want, in the format you want.

- ERDDAP acts as a middleman between you and various remote data servers. When you request data from ERDDAP, ERDDAP reformats the request into the format required by the remote server, sends the request to the remote server, gets the data, reformats the data into the format that you requested, and sends the data to you. You no longer have to go to different data servers to get data from different datasets.
- ERDDAP offers an easy-to-use, consistent way to request data: via the OPeNDAP standard. Many datasets can also be accessed via ERDDAP's Web Map Service (WMS).
- ERDDAP returns data in the common file format of your choice. ERDDAP offers all data as .html table, ESRI .asc and .csv, Google Earth .kml, OPeNDAP binary, .mat, .nc, ODV .txt, ...

Start Using ERDDAP: Search for Interesting Datasets

- **Do a Full Text Search for Datasets**

- **View a List of All 101 Datasets**

- **Search for Datasets by Category**

Datasets can be categorized in different ways by the values of various metadata attributes. Click on an attribute ([cdm_data_type](#), [institution](#), [ioos_category](#), [keywords](#), [long_name](#), [standard_name](#), [variableName](#)) to see a list of categories (values) for that attribute. Then, you can click on a category to see a list of relevant datasets.

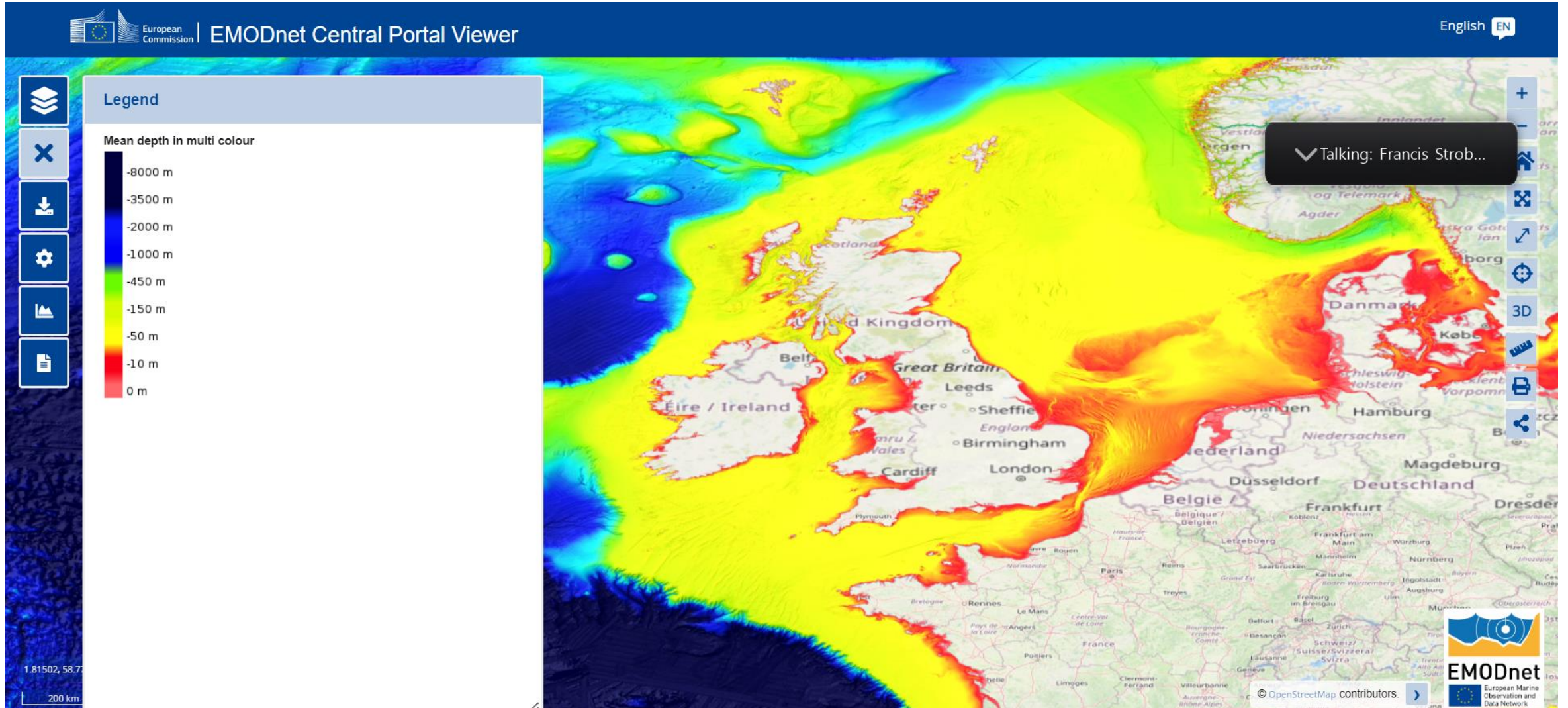
- **Search for Datasets with Advanced Search**

- **Search for Datasets by Protocol**

Protocols are the standards which specify how to request data. Different protocols are appropriate for different types of data and for different client applications.

Protocol	Description
griddap	Griddap lets you use the OPeNDAP hyperslab protocol to request data subsets, graphs, and maps from gridded datasets

New Map viewer



ERDDAP - Mapviewer


- Subset - query download functionality
- MetaGIS - (VLIZ Layer management tool)

Select the data to download:

DTM Bathymetry Visible layers

Select your area by drawing a lat-lon box on the map

Product selection:

Layer	Format
Mean depth	nc x x v  x

Select the data to download:

DTM Bathymetry Visible layers

Select your area by drawing a lat-lon box on the map

Product selection:

Layer	Format
Absolute sea level trend (1993 - 2019) - derived from CMCC-CGLORSv7 reanalysis	Select product format... x

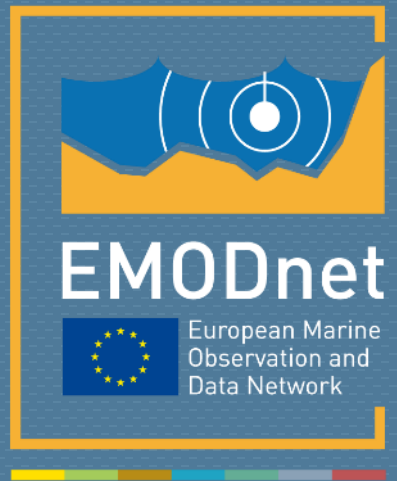
Options v

Start date: 12/16/2019 End date: 12/16/2019

Mean depth Select product format... x

Clear all selections

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    ],
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}
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