



**EMODnet**

 European Marine  
Observation and  
Data Network

# European Marine Observation and Data Network

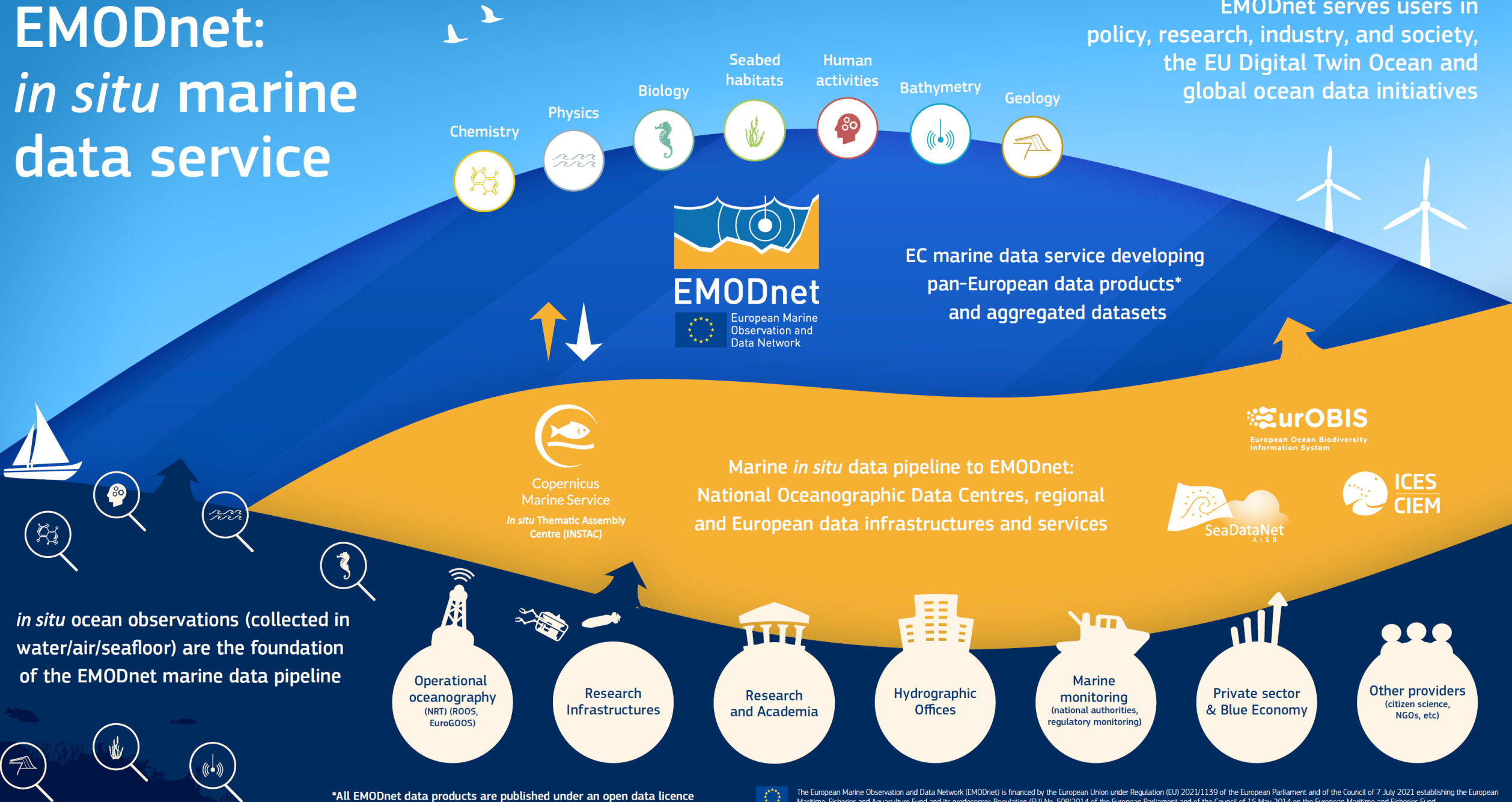
**Novellino, Gorringe, Schaap, Giorgetti**



The European Marine Observation and Data Network (EMODnet) is financed by the European Union under Regulation (EU) 2021/1139 of the European Parliament and of the Council of 7 July 2021 establishing the European Maritime, Fisheries and Aquaculture Fund.

# EMODnet: *in situ* marine data service

EMODnet serves users in  
policy, research, industry, and society,  
the EU Digital Twin Ocean and  
global ocean data initiatives



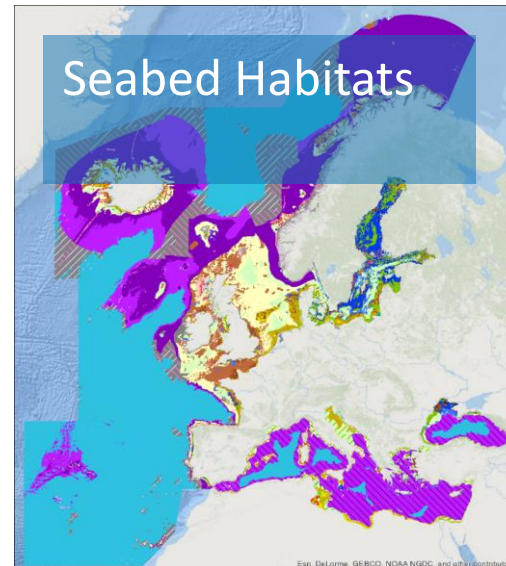
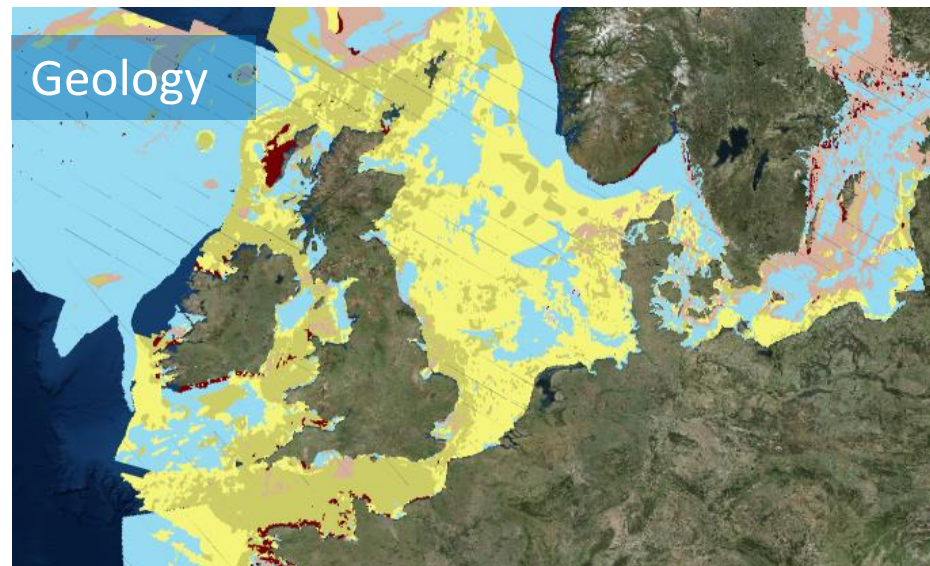
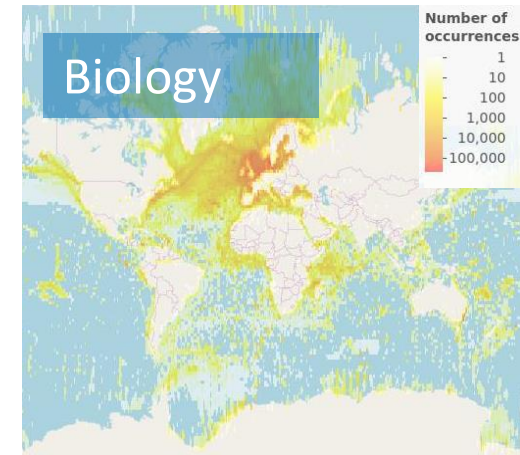
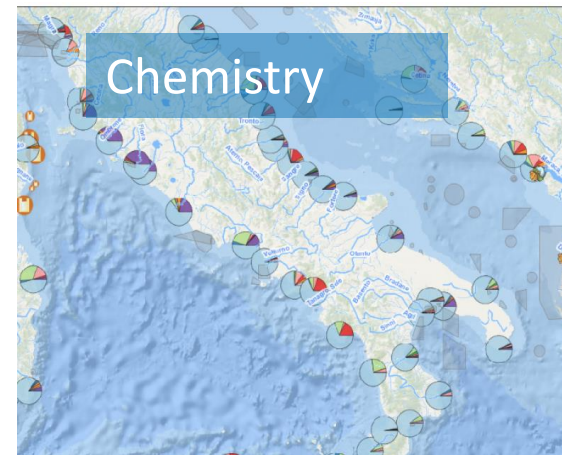
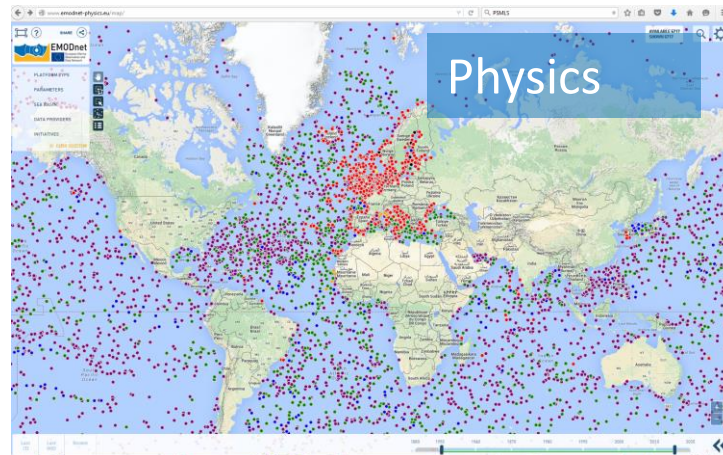
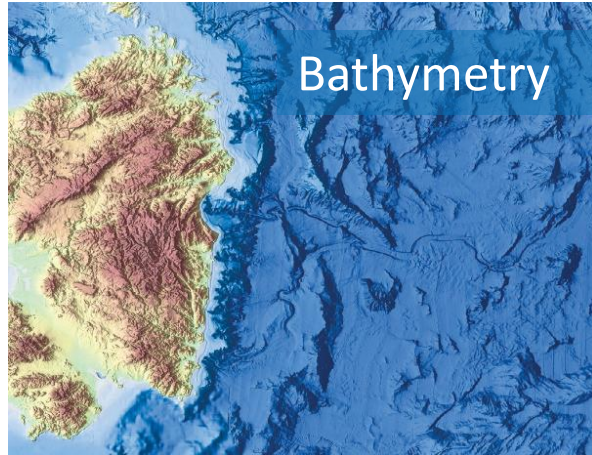
\*All EMODnet data products are published under an open data licence



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# EMODnet: Unlocking and democratising marine data, information and knowledge: Open and free for all



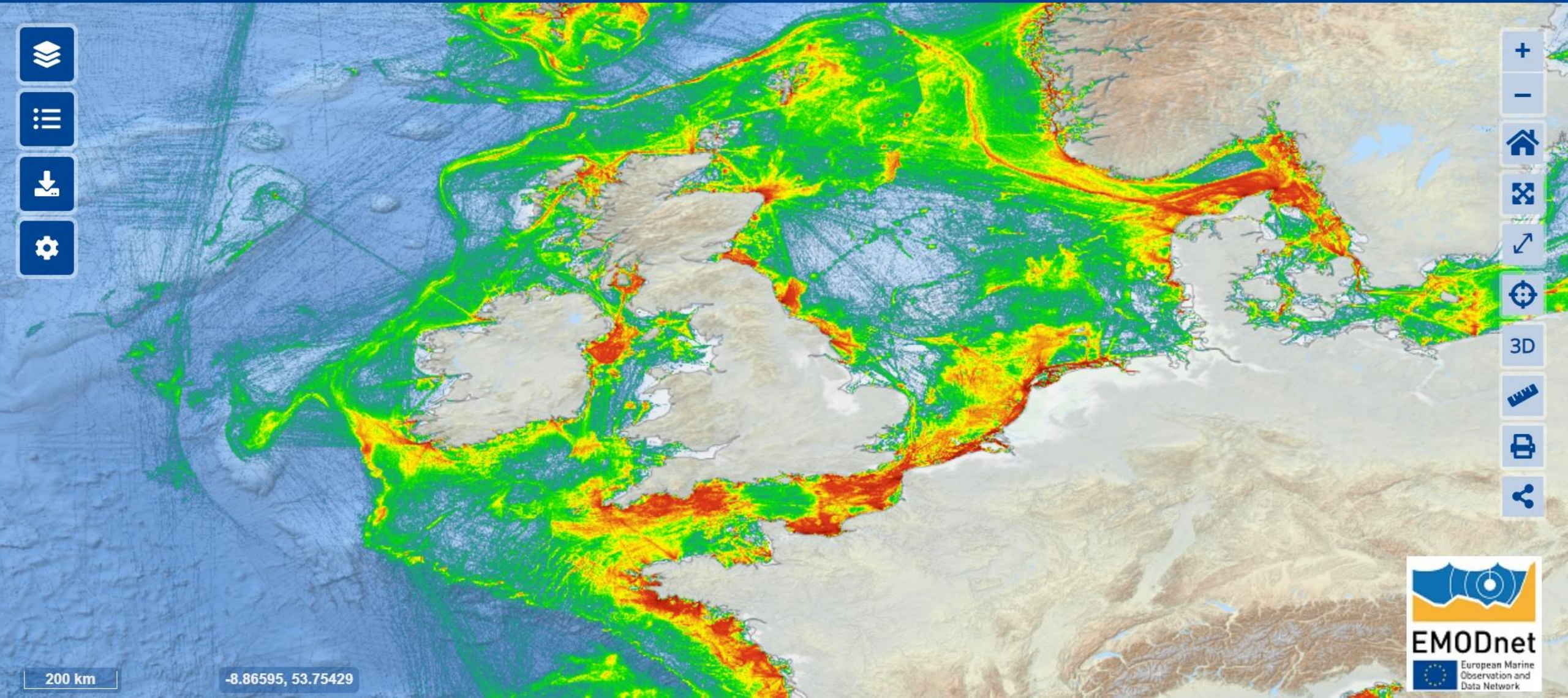


# EMODnet: One map viewer – controls e.g., EMODnet Vessel density



EMODnet Map Viewer

EN English







# EMODnet Data Ingestion

## A key pillar of the European Marine Observation and Data Network for sharing data



### Overarching goal:

- To **facilitate** the data flow and the ingestion process from data providers to leading European marine data management infrastructures that are feeding EMODnet, for making their data open and FAIR

### Approach:

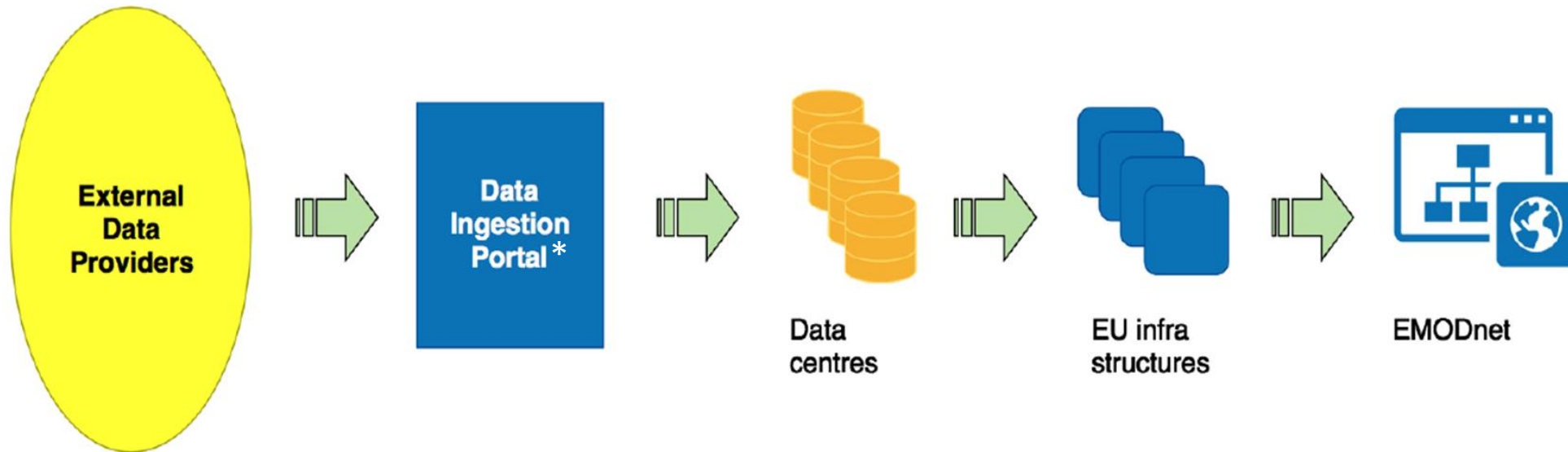
- **Identifying new data holders** in the data collection landscape (from public and private sectors) :
  - who are not connected to their national focal points that are contributing data to the EU data infrastructures and EMODnet, or,
  - are often unaware of how to connect
- **Motivating**, and **supporting data holders** to become partners in the EU data management infrastructures for data exchanges and **share their data** EMODnet
- **Training data holders** in the **use of standards & best** practices for easier and faster integration of their data
- **Cooperating** with EU Programmes, Projects, Initiatives, Networks
- **Promotion activities** (webinars, workshops) for raising awareness about EMODnet Ingestion offer



# Data Ingestion process

A free and open public service for long-term stewardship, free distribution and publishing via EMODnet

Use is made of standards, best practices, and existing marine data management infrastructures, data centres and pathways towards the EMODnet



Workflow from submission to elaborating and processing for publishing in EMODnet



# EMODnet Physics

## EMODnet Physics:

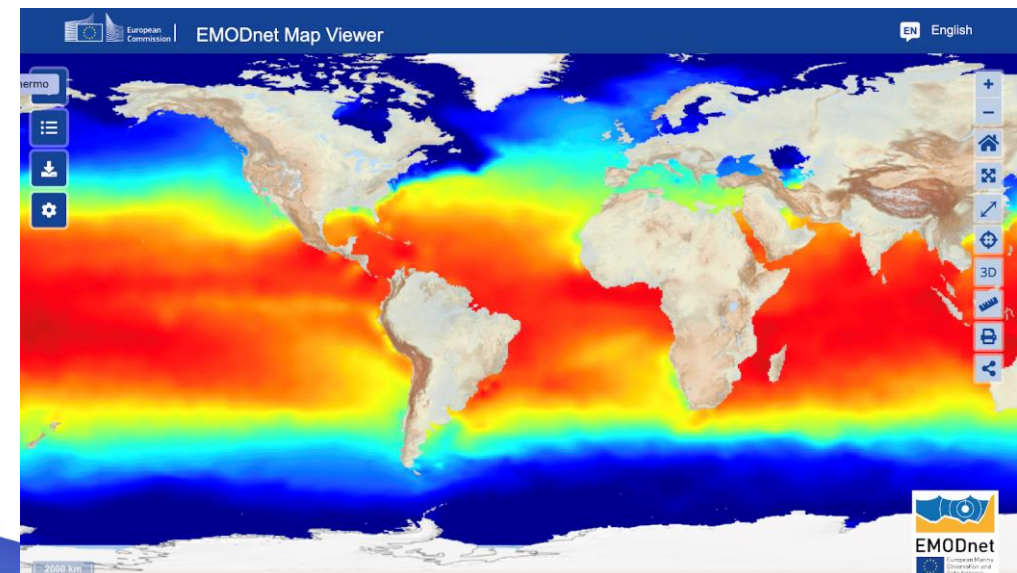
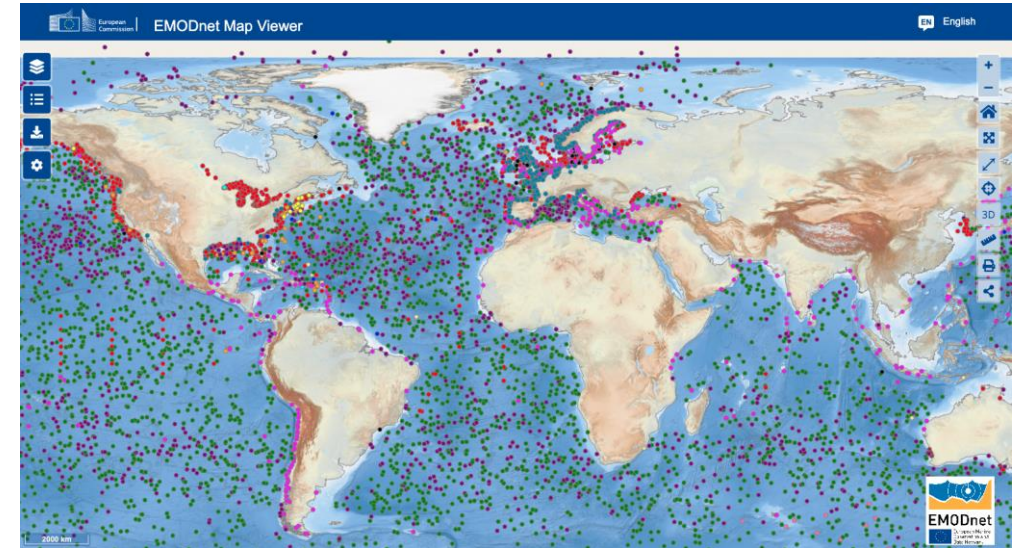
- **in situ** data, data collections, and products
- **near real time and delayed** mode data on ocean physics
- builds on **marine data infrastructures and programs**, **common standards** and **best practices**

## Parameters:

Temperature, Salinity, Sea Level, Currents, Waves and Winds, Optical properties of the water, Under water noise, Ice data, River, Meteorological data at sea level

## Platforms:

Moorings, **Rivers stations**, Gliders/AUVs missions, Vessels data, drifting buoys, ARGO, ...





# EMODnet: One map viewer for data discovery and download



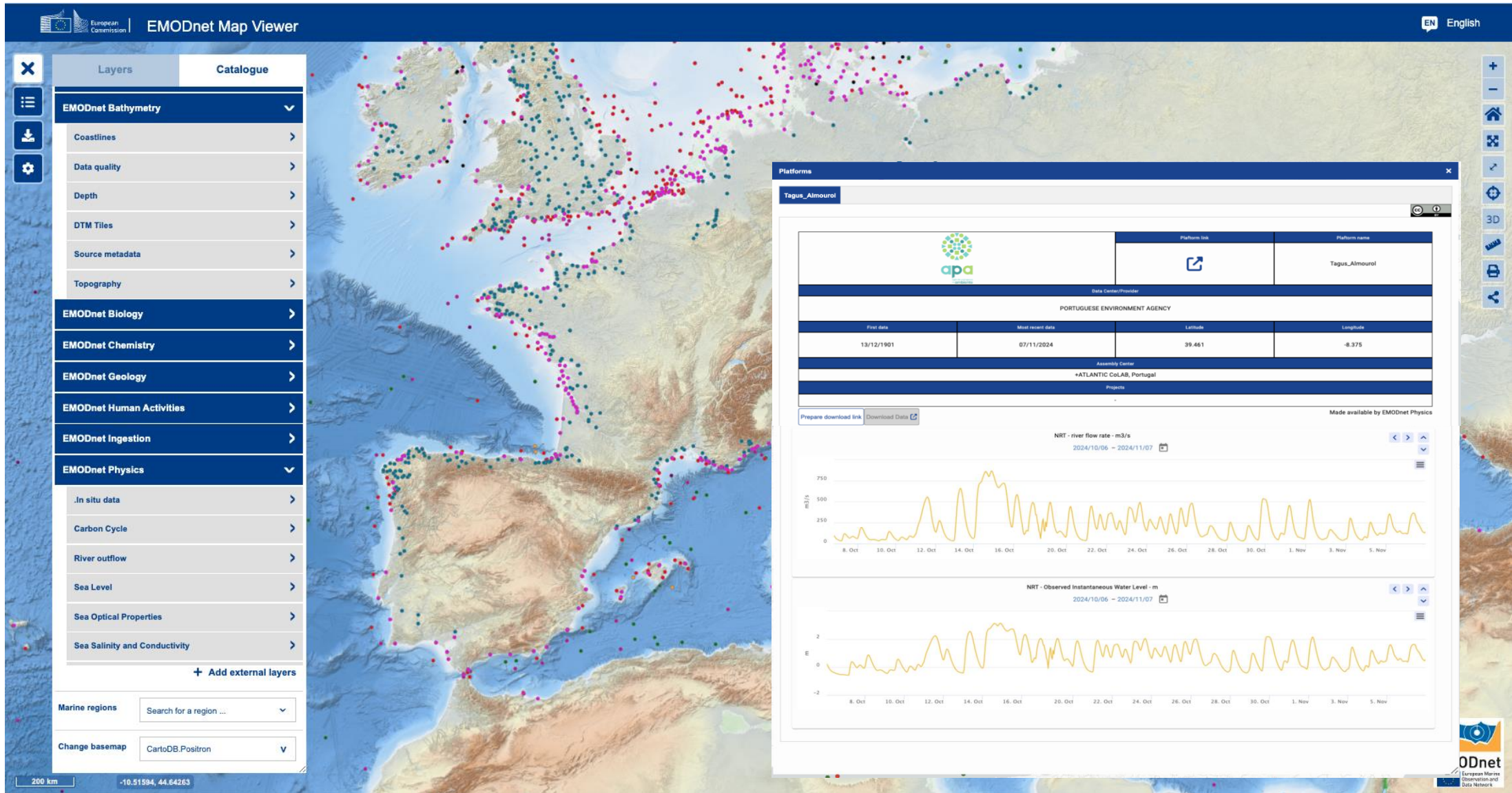
The screenshot displays the EMODnet Map Viewer interface. The top navigation bar includes the European Commission logo, the text "EMODnet Map Viewer", and a language selector set to "English". The main map area shows a topographic view of the Mediterranean region, overlaid with numerous colored data points. A sidebar on the left contains a "Layers" and "Catalogue" menu with the following items:

- EMODnet Bathymetry (expanded)
- Coastlines
- Data quality
- Depth
- DTM Tiles
- Source metadata
- Topography
- EMODnet Biology
- EMODnet Chemistry
- EMODnet Geology
- EMODnet Human Activities
- EMODnet Ingestion
- EMODnet Physics (expanded)
- .In situ data
- Carbon Cycle
- River outflow
- Sea Level
- Sea Optical Properties
- Sea Salinity and Conductivity


Below the menu is a section for "Marine regions" with a search input and a dropdown menu, and a "Change basemap" section with a dropdown menu currently set to "CartoDB.Positron". A scale bar at the bottom left indicates 200 km, and coordinates are shown as -10.51594, 44.64263. The bottom right corner features the EMODnet logo and text.



# EMODnet: One map viewer for data discovery and download



The screenshot displays the EMODnet Map Viewer interface. On the left, a sidebar contains a 'Layers' panel with categories like 'EMODnet Bathymetry', 'EMODnet Biology', 'EMODnet Chemistry', 'EMODnet Geology', 'EMODnet Human Activities', 'EMODnet Ingestion', and 'EMODnet Physics'. Below this is a 'Catalogue' section with sub-categories such as 'In situ data', 'Carbon Cycle', 'River outflow', 'Sea Level', 'Sea Optical Properties', and 'Sea Salinity and Conductivity'. At the bottom of the sidebar, there are fields for 'Marine regions' and 'Change basemap'. The main area shows a map of Europe with numerous colored data points. On the right, a 'Platforms' panel is open, showing details for the 'Tagus\_Almourol' platform. This panel includes a table with metadata and two time-series plots.

Platform link	Platform name
	Tagus_Almourol

Data Center/Provider  
PORTUGUESE ENVIRONMENT AGENCY

First data	Most recent data	Latitude	Longitude
13/12/1901	07/11/2024	39.461	-8.975

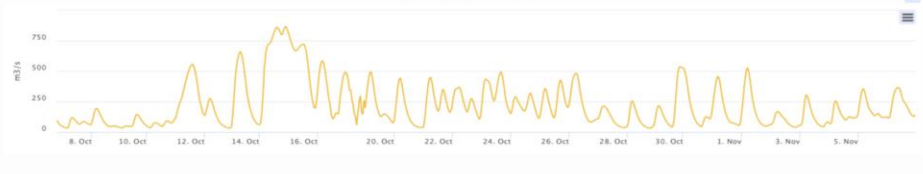
Assembly Center  
+ATLANTIC CoLAB, Portugal

Project  
-


Prepare download link | Download Data

Made available by EMODnet Physics

NRT - river flow rate - m3/s  
2024/10/06 - 2024/11/07



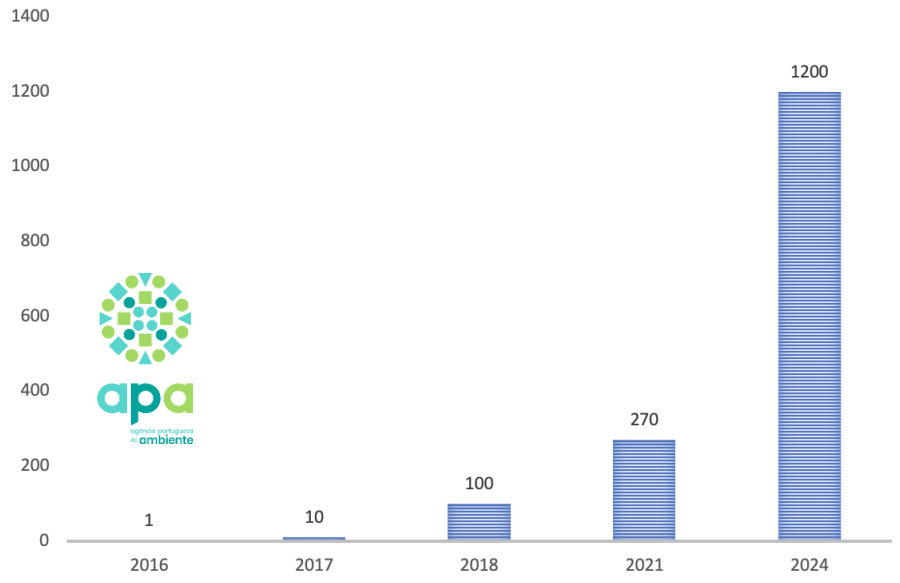
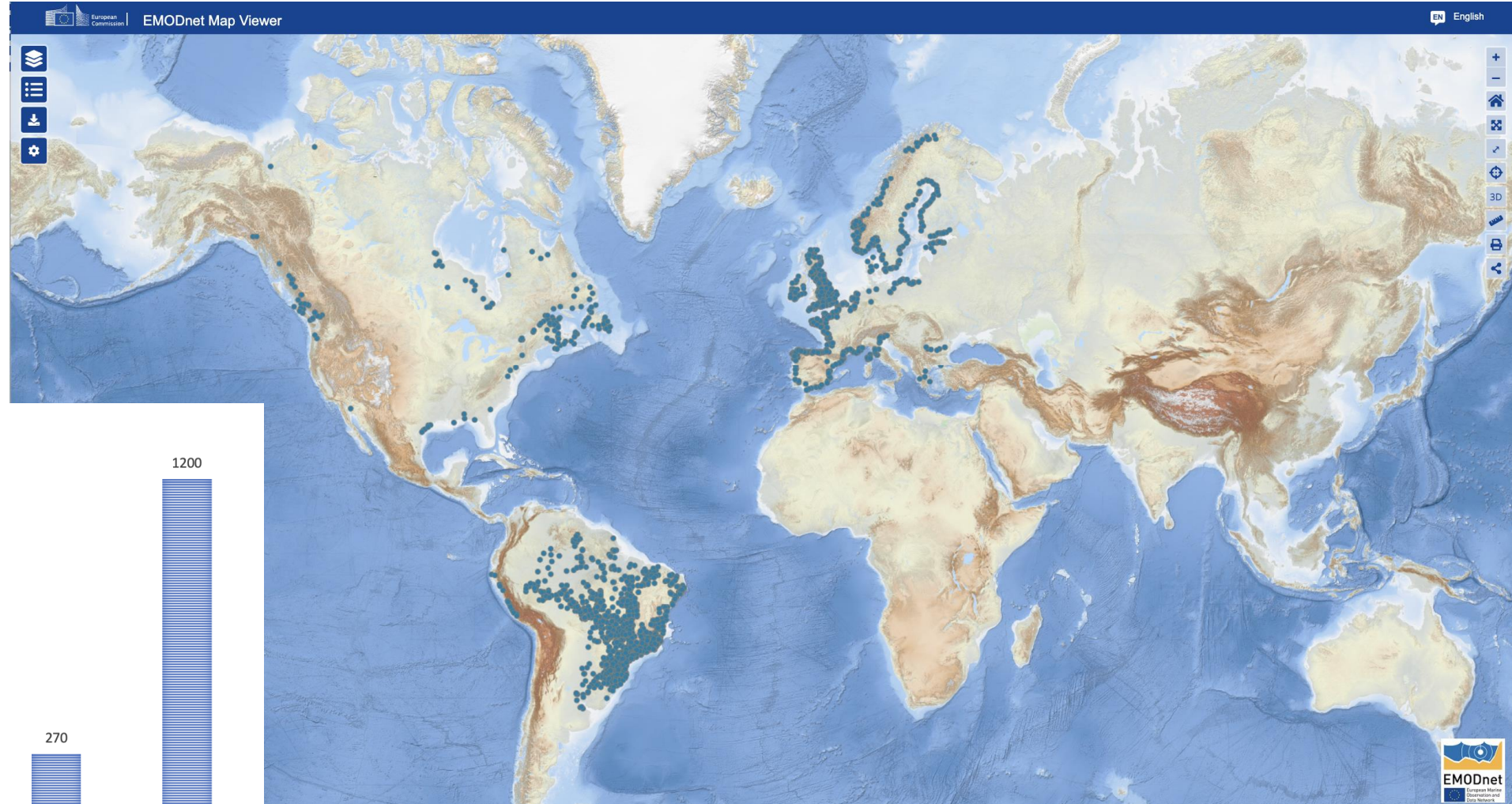
NRT - Observed Instantaneous Water Level - m  
2024/10/06 - 2024/11/07





# River Stations

Be our Champion again!





# EMODnet



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Data Network



[emodnet.ec.europa.eu](https://emodnet.ec.europa.eu)

Stay up-to-date with  
the latest news

