


EMODnet
European Marine
Observation and
Data Network

Your gateway to marine data in Europe




Marine knowledge
2020
MARINE DATA AND
OBSERVATION FOR SMART
AND SUSTAINABLE GROWTH

adopted 8 September 2010

Marine Data & Information Sharing Developments in Europe

IODE XXV, Scientific Conference, 18 February 2019



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With kind contributions from Michèle Fichaut (Ifremer, SeaDataNet) and Patrick Gorringer (SMHI)

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Ocean data sharing in Europe *The Game is Up*



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“

Sound ocean data is indispensable
if we want to tackle
major global issues
such as climate change, marine litter,
illegal fishing or marine protection.
It is also a bare necessity
if we want to develop the blue economy
and create sustainable
economic growth in the EU.

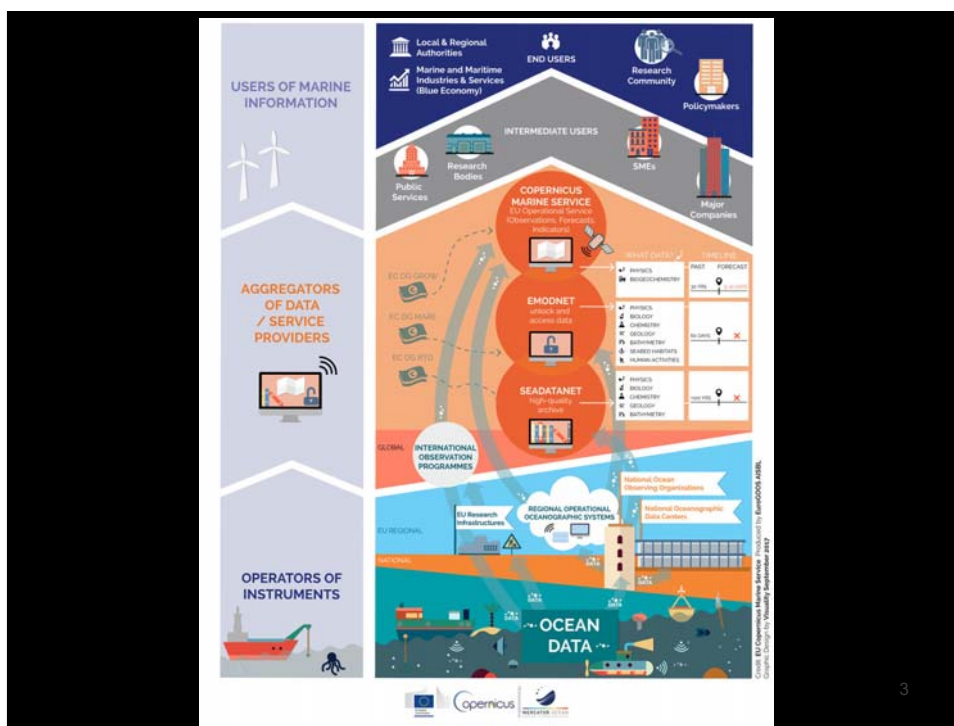
Karmenu Vella, European Commissioner
for Environment, Maritime Affairs and Fisheries


#EOOSConference18



European
Commission

IODE Scientific Conference, Tokyo, 18/02/2019


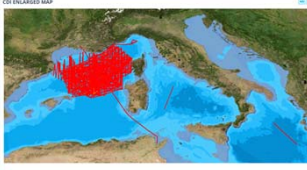


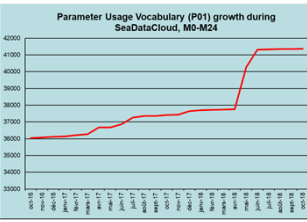


SeaDataCloud achievements

- **Further developing standards such as**

 - ✓ Expanding the vocabularies (continuous task)
 - ✓ Applying the linked data principle for richer metadata and searches
 - ✓ Handling different data types such as Flow cytometer data



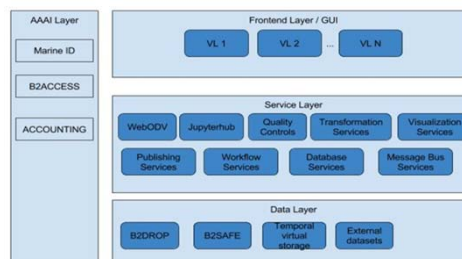
- **Improving and innovating services**

 - ✓ Upgrading the CDI Data Discovery & Access service by adopting the cloud in cooperation with EUDAT
 - ✓ Developing MySeaDataCloud custom services
 - ✓ Upgrading the monitoring of the SeaDataNet system
 - ✓ Deploying a DOI minting service in combination with EMODnet Ingestion



SeaDataCloud in progress

- Move of the infrastructure to the cloud in progress: Development done, test on-going with several major data centres
- Development of the Virtual Research Infrastructure (VRE)
- Development of standards (vocabulary, formats for HF-Radars and Gliders) in cooperation with EUROGOOS, EMODnet, Copernicus.....
- Development of online Biology Data quality checks



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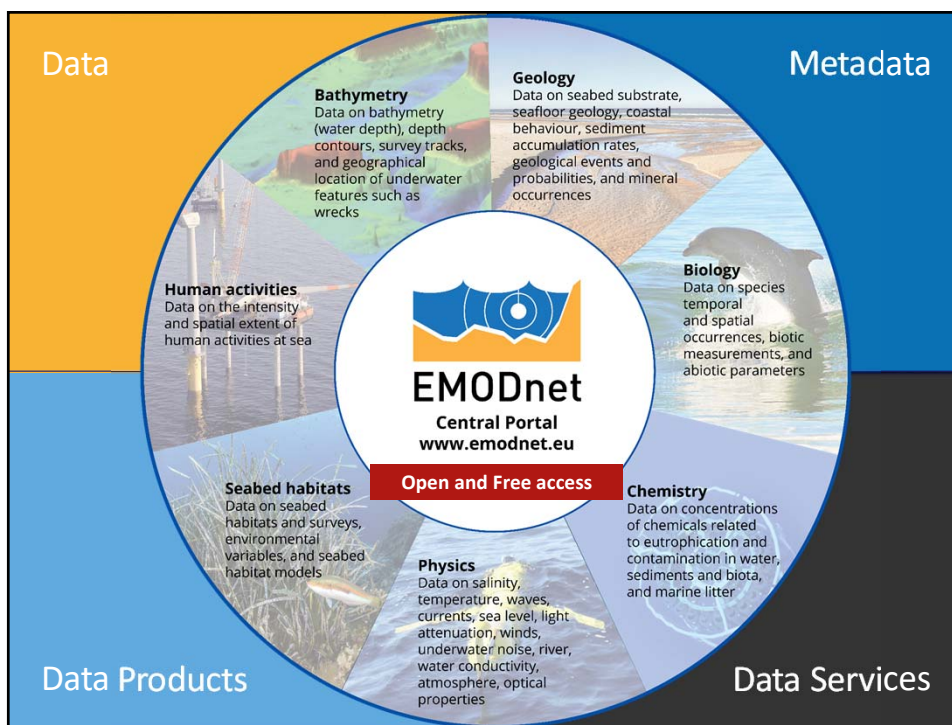
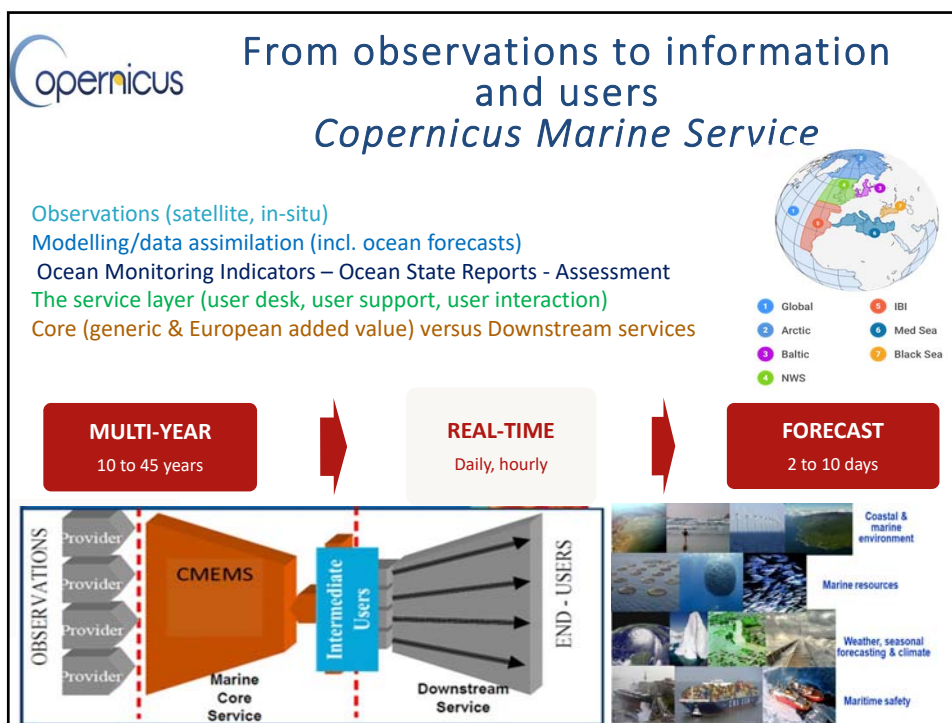


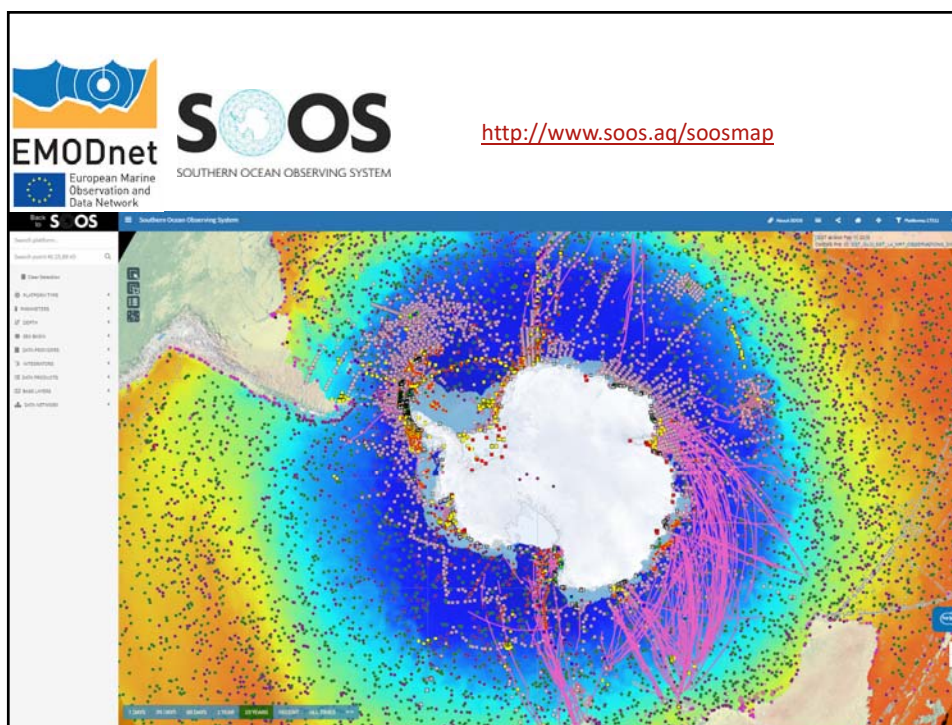
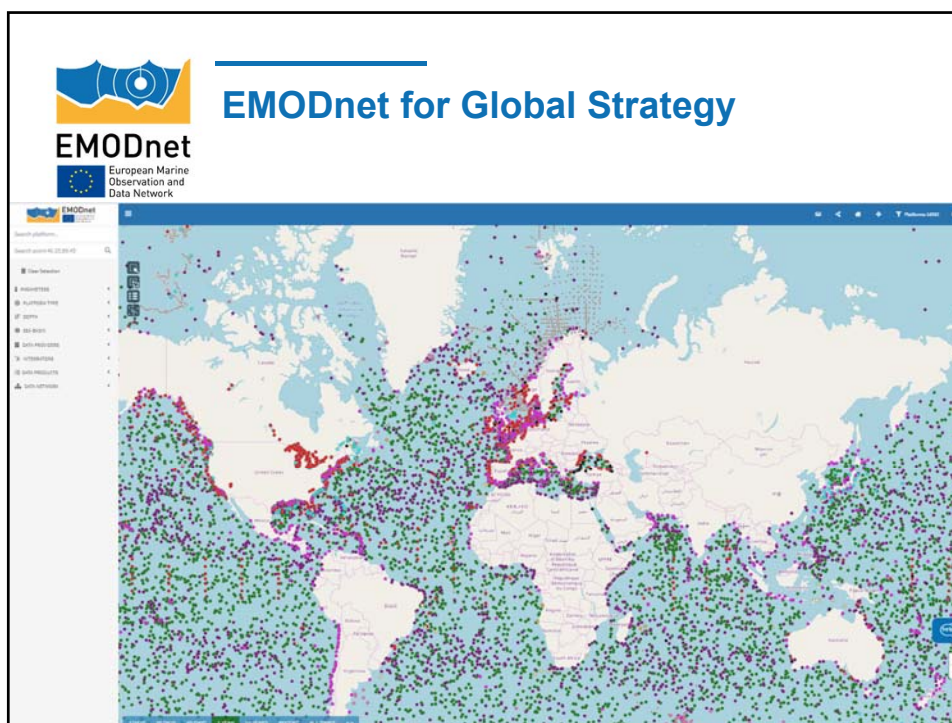
SeaDataCloud next plans

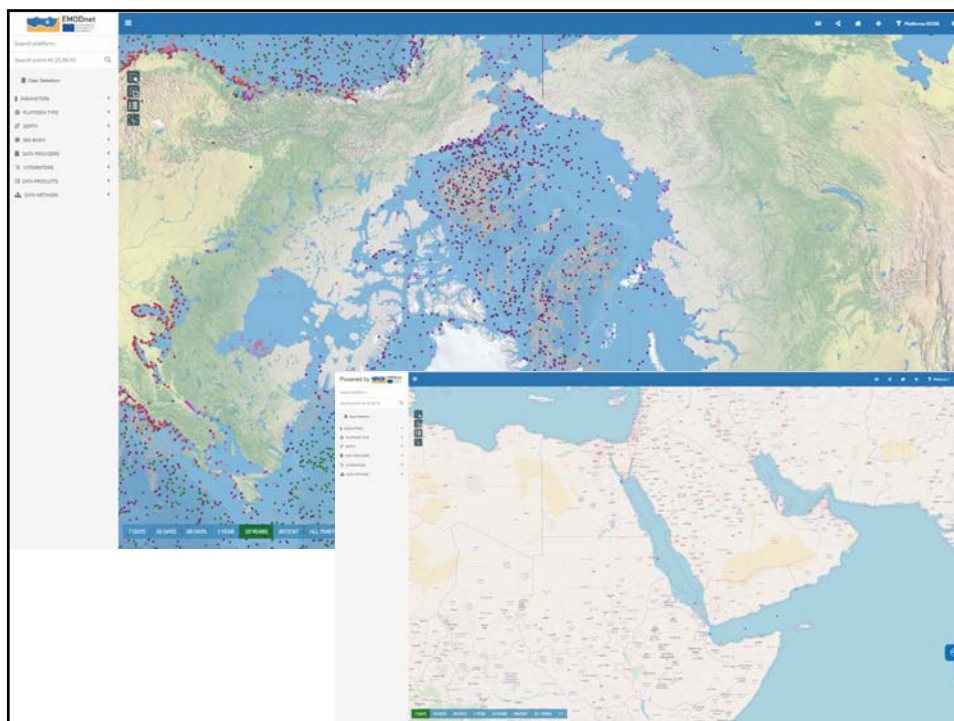
*SeaDataCloud 2 proposal under preparation for the H2020-INFRAIA-01- 2018-2020 call: **European Research Infrastructures - Integrating Activities for Advanced Communities** (dead line 20 March 2019)*

- Extended SeaDataCloud consortium to more data centres and specific technical partners
- Main aims:
 - providing further SeaDataNet services to users with a focus on providing an enhanced VRE with data and tools necessary for marine environment studies
 - enhancing the data management procedures, and the FAIRness of data and related services, including long term preservation, standards for metadata and data.

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EMODnet contributing to marine global assessments

- OBIS is now the world's most comprehensive database on the diversity, distribution, and abundance of life in the ocean in time and space.
- The European contribution (EuroOBIS) is significant with EMODnet playing a pivotal role: **around 20 million** (out of 50M) of these records are provided by **EMODnet Biology**.
- Online teaching course** for learning how to contribute data to EMODnet Biology, collaboration with IODE Oceanteacher platform




Portal:
EMODnet Biology

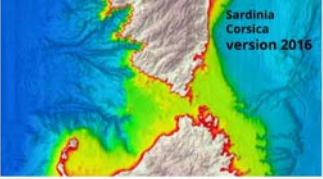
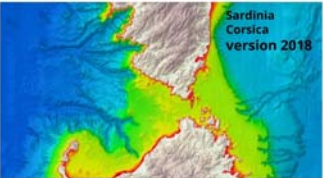



EMODnet Biology is a fundamental pillar of international processes such as the UN World Ocean Assessments, the regional and global assessments of the Intergovernmental science-policy Platform on Biodiversity and Ecosystem Services, etc.

<http://www.emodnet-bathymetry.eu/>

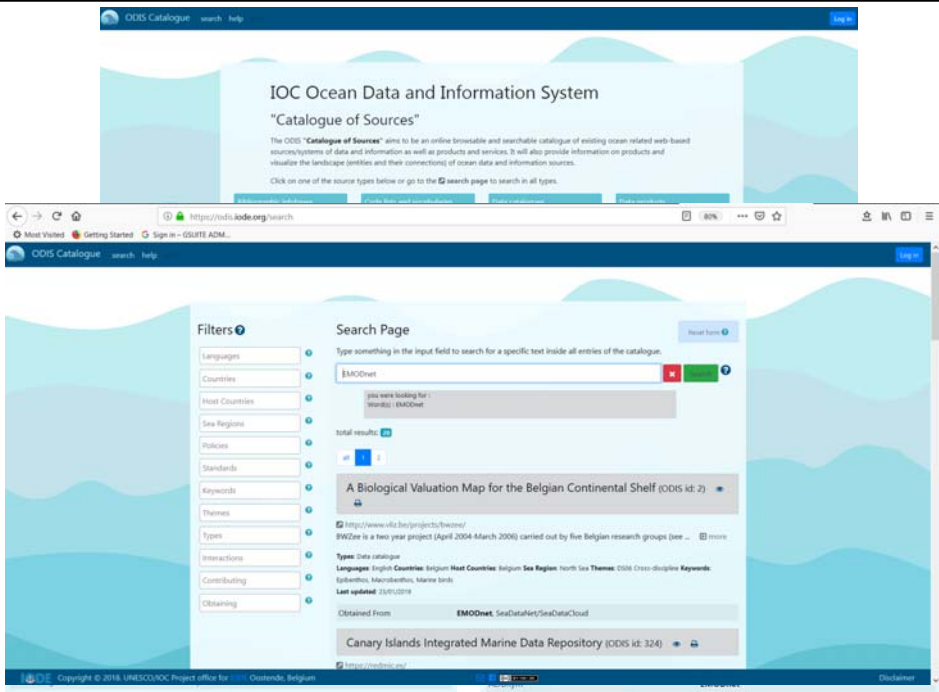


The new EMODnet digital bathymetry

The advanced EMODnet DTM offers **many benefits** to users:

- **Expanded coverage:** European seas + European part of the Arctic Ocean and Barents Sea;
- Resolution increased to $1/16 * 1/16$ arc minutes (circa 115*115m);
- Powerful 3D visualisation functionality;
- Faster representation of the complexity of the map;
- Inclusion of Satellite Derived Bathymetry data products, in particular for coastal stretches of Spain and Greece.
- Collaboration with GEBCO



IOC Ocean Data and Information System
"Catalogue of Sources"

The ODIS "Catalogue of Sources" aims to be an online browsable and searchable catalogue of existing ocean related web-based sources/systems of data and information as well as products and services. It will also provide information on products and visualize the landscape (entities and their connections) of ocean data and information sources.

Click on one of the source types below or go to the [search](#) page to search in all types.

[Data Catalogue](#) [Data Products](#) [Data Services](#) [Data Tools](#) [Data Visualisation](#)

Filters

- Languages
- Countries
- Host Countries
- Sea Regions
- Policies
- Standards
- Keywords
- Themes
- Types
- Interactions
- Contributing
- Obtaining

Search Page

Type something in the input field to search for a specific text inside all entries of the catalogue.

Search:

total results: 1

A Biological Valuation Map for the Belgian Continental Shelf (ODIS id: 2)

<http://www.vliz.be/projects/bvmap/>
BVMap is a two year project (April 2004-March 2006) carried out by five Belgian research groups (see ...)

Type: Data catalogue
Language: English Countries: Belgium Host Countries: Belgium Sea Region: North Sea Themes: ODIS Cross discipline Keywords: Ecosystems, Macrofauna, Marine birds
Last updated: 2016-02-01

Obtained From: EMODnet, SeaDataNet/SeaDataCloud

Canary Islands Integrated Marine Data Repository (ODIS id: 324)

<http://www.iodis.org/>

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