

# EMODnet and BOOS

**Patrick Gorringer, SMHI / Co-coordinator EMODnet Physics  
EMODnet Secretariat**







#1 CHEF



EMODnet

European Marine  
Observation and  
Data Network

# EMODnet consists of 5 strands and 7 portals

 Network of **200** ~~>150~~ organisations



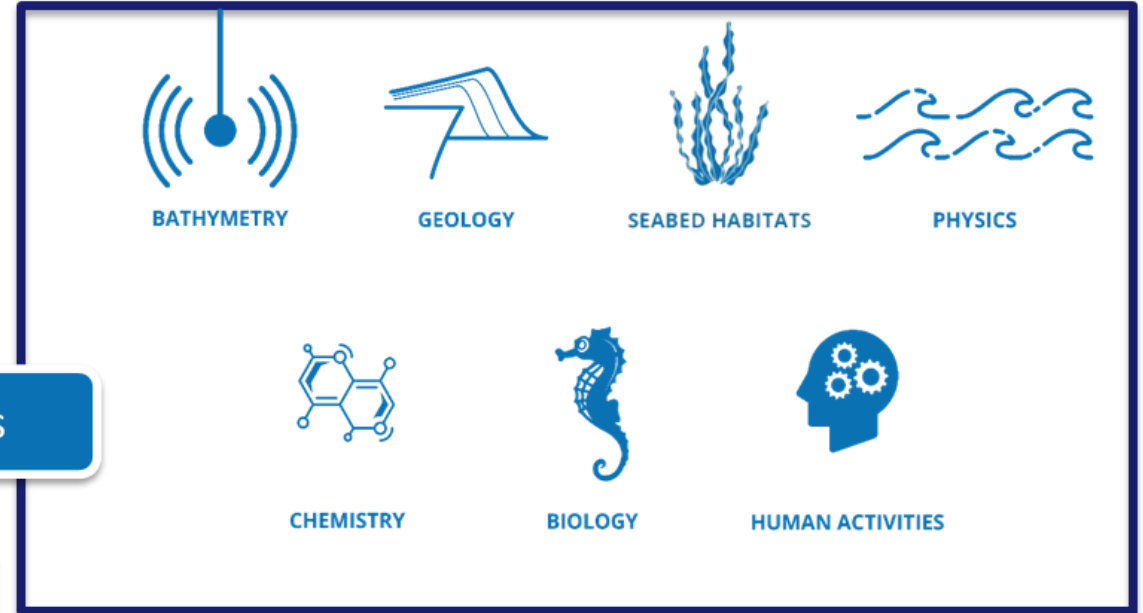
7 thematic portals

Central Portal

6 Sea-basin Checkpoints

Data Ingestion Portal

Secretariat



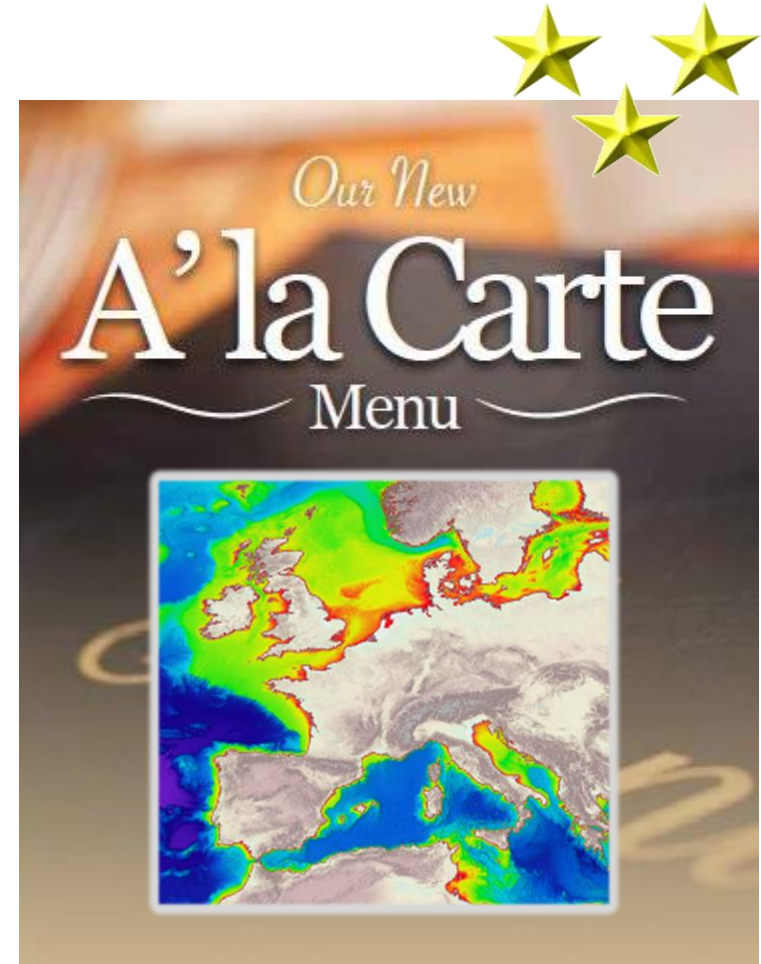


<http://www.emodnet-bathymetry.eu>

- Digital Terrain Model
- Survey tracks
- Water depth and depth profiles
- Undersea features
- Wrecks
- High resolution bathymetry
- in coastal areas

## OPEN ACCESS

*“The latest 2018 DTM data product with a **grid** resolution of 1/16 \* 1/16 arc minutes (circa **115 \* 115 meters**) is freely available to users as GIS layers for **viewing and sharing** as OGC web services (WMS, WFS, WMTS, WCS) and downloading as DTM tiles in several output formats.”*



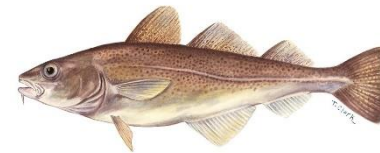
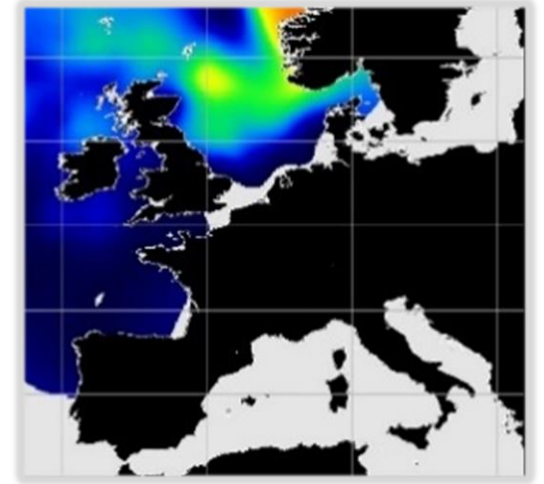


BIOLOGY

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

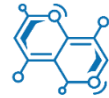
Occurrences and abundances of species:

- Phytoplankton
- Zooplankton
- Macro-algae
- Angiosperm
- Fish
- Reptile
- Benthos
- Bird
- Sea mammal



## Sustainable food

*“Gridded abundance maps of *Gadus morhua* shows clearly the dramatic stock depletion of the last decades in the North Sea.”*



CHEMISTRY

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

- Acidity
- Antifoulants
- Chlorophyll
- Dissolved gases
- Fertilisers
- Hydrocarbons
- **Marine litter**
- Heavy metals
- Organic matter
- Polychlorinated biphenyls
- Pesticides and biocides
- Radionuclides
- Silicates



News

**EMODnet Chemistry presented at MSFD Contaminants D8+D9 Workshop**  
16 May 2019

**Volvo Ocean Race micro litter dataset is now available**  
29 March 2019

**EMODnet Chemistry marine litter maps just released**  
24 March 2019

**EMODnet Chemistry presented at Ocean Dialogue 2019**  
20 March 2019





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

- Seabed substrate
- Sediment accumulation rates
- Seafloor lithology
- Seafloor stratigraphy
- Coastal behavior
- Geological events and probabilities
- Mineral occurrences
- « gravlax »



## COASTAL BEHAVIOR

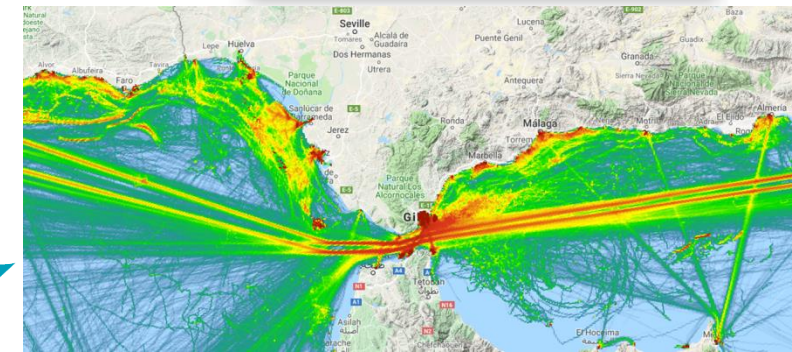
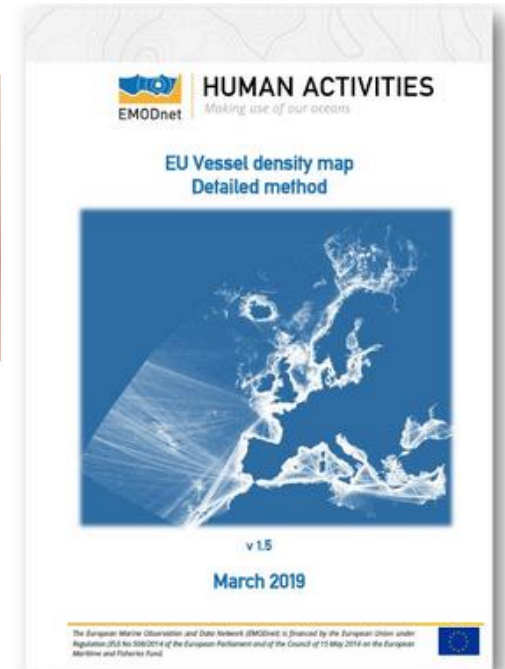
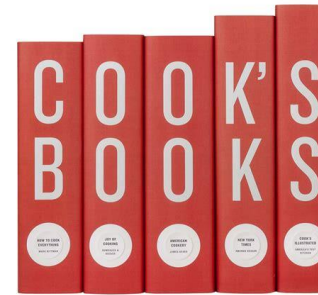
*Henry Vallius, coordinator of EMODnet Geology, stated: “By visualising pan-European shoreline behavior for 2007-2017, EMODnet Geology is proud to provide the first open map of this kind since 2004 (last update). **The map and dataset are available free of charge for viewing, downloading, processing and usage.**”*



HUMAN ACTIVITIES

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

- Aggregate extraction
- Aquaculture
- Cultural heritage
- Dredging
- Fisheries
- Hydrocarbon extraction
- Traffic in main ports
- Ocean energy facilities
- Pipelines and cables
- Protected areas
- Status of bathing sites
- **Vessel density**
- Waste disposal (solids)
- Wind farms
- Other forms of area management





SEABED HABITATS

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

- Seabed habitat maps (broad-scale and specific per basin)
- Individual seabed habitat maps from surveys
- Environmental variables influencing habitat type



*“We are excited to announce the release of a **new and improved interactive map**. The product is the culmination of several months development to modernize the look and feel, introduce a range of **new features** and improve the ability to exchange information with external marine data sources.”*



PHYSICS

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

- Wave height and duration
- Sea temperature
- Wind speed and direction
- Horizontal speed
- of the water column
- Water clarity
- Changes in sea level
- **Inflow from rivers**
- Water conductivity
- /biogeochemical parameters
- Atmospheric parameters
- Ice cover
- **Underwater noise**

## 24 hour hot buffet

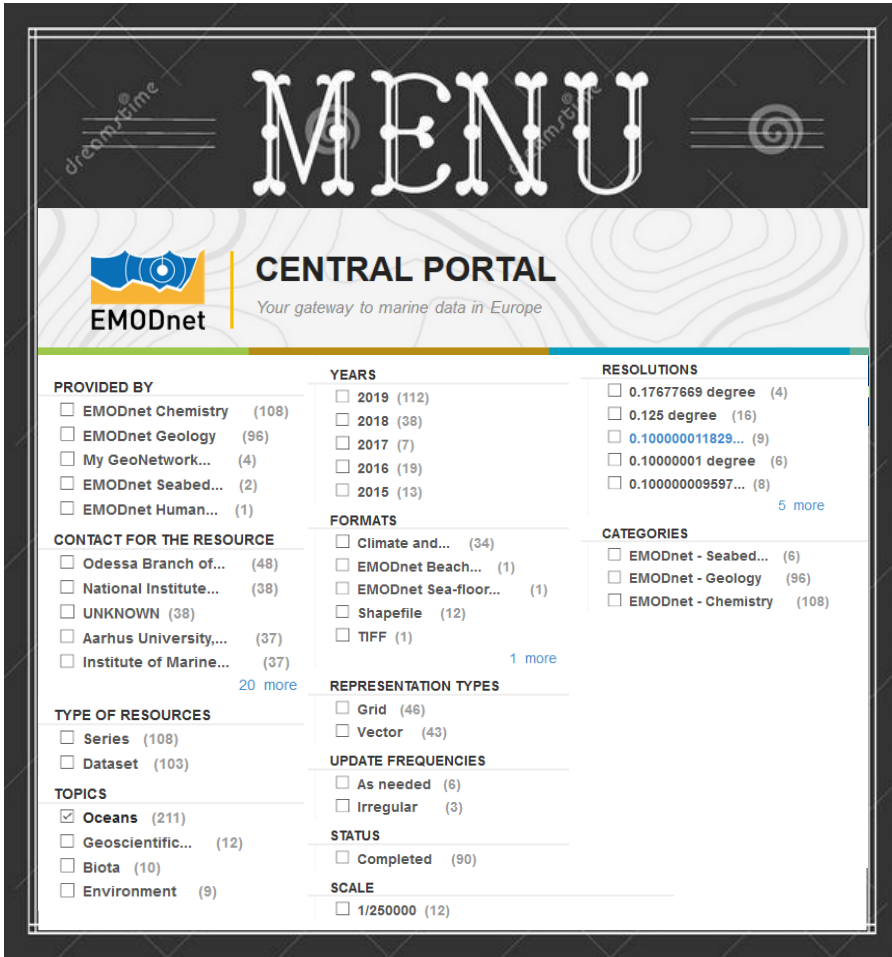
*“Time series*

*Dynamic plots*

*Profiles*

*Statistics (trends, max, min, average, ...)”*





**MENU**

**CENTRAL PORTAL**  
Your gateway to marine data in Europe

**PROVIDED BY**

- EMODnet Chemistry (108)
- EMODnet Geology (96)
- My GeoNetwork... (4)
- EMODnet Seabed... (2)
- EMODnet Human... (1)

**CONTACT FOR THE RESOURCE**

- Odessa Branch of... (48)
- National Institute... (38)
- UNKNOWN (38)
- Aarhus University... (37)
- Institute of Marine... (37)

**20 more**

**TYPE OF RESOURCES**

- Series (108)
- Dataset (103)

**TOPICS**

- Oceans (211)
- Geoscientific... (12)
- Biota (10)
- Environment (9)

**YEARS**

- 2019 (112)
- 2018 (38)
- 2017 (7)
- 2016 (19)
- 2015 (13)

**FORMATS**

- Climate and... (34)
- EMODnet Beach... (1)
- EMODnet Sea-floor... (1)
- Shapefile (12)
- TIFF (1)

**1 more**

**REPRESENTATION TYPES**

- Grid (46)
- Vector (43)

**UPDATE FREQUENCIES**

- As needed (6)
- Irregular (3)

**STATUS**

- Completed (90)

**SCALE**

- 1/250000 (12)

**RESOLUTIONS**

- 0.17677669 degree (4)
- 0.125 degree (16)
- 0.100000011829... (9)
- 0.10000001 degree (6)
- 0.100000009597... (8)

**5 more**

**CATEGORIES**

- EMODnet - Seabed... (6)
- EMODnet - Geology (96)
- EMODnet - Chemistry (108)

<http://www.emodnet.eu>

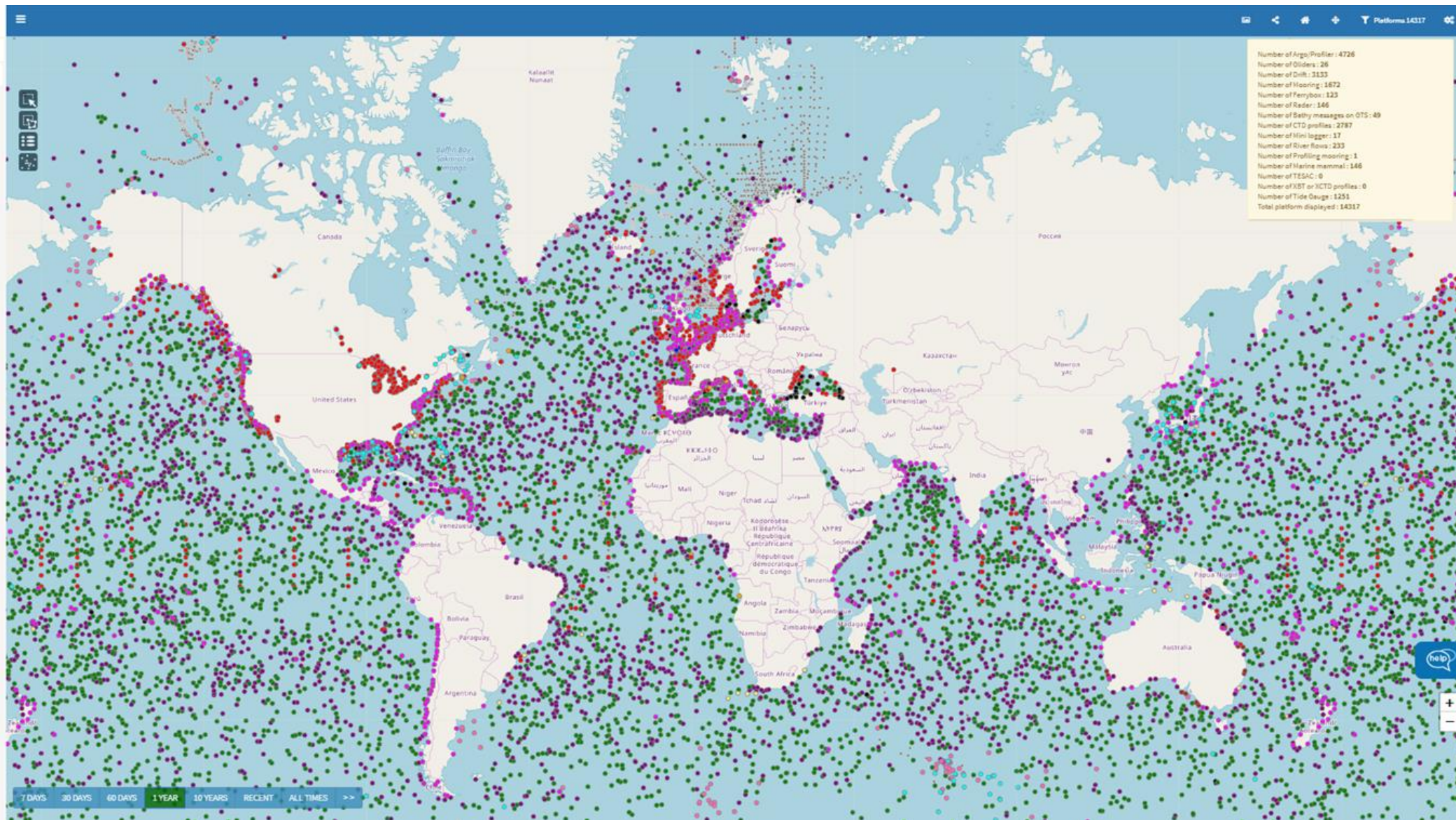




Search platform...

Search point 40.25,89.45

- Clear Selection
- PARAMETERS
- PLATFORM TYPE
- DEPTH
- SEA BASIN
- DATA PROVIDERS
- INTEGRATORS
- DATA PRODUCTS
- DATA NETWORK



7 DAYS 30 DAYS 60 DAYS 1 YEAR 10 YEARS RECENT ALL TIMES >>

**MEMORANDUM OF UNDERSTANDING**

**concerning cooperation on in-situ marine data management**

**between**

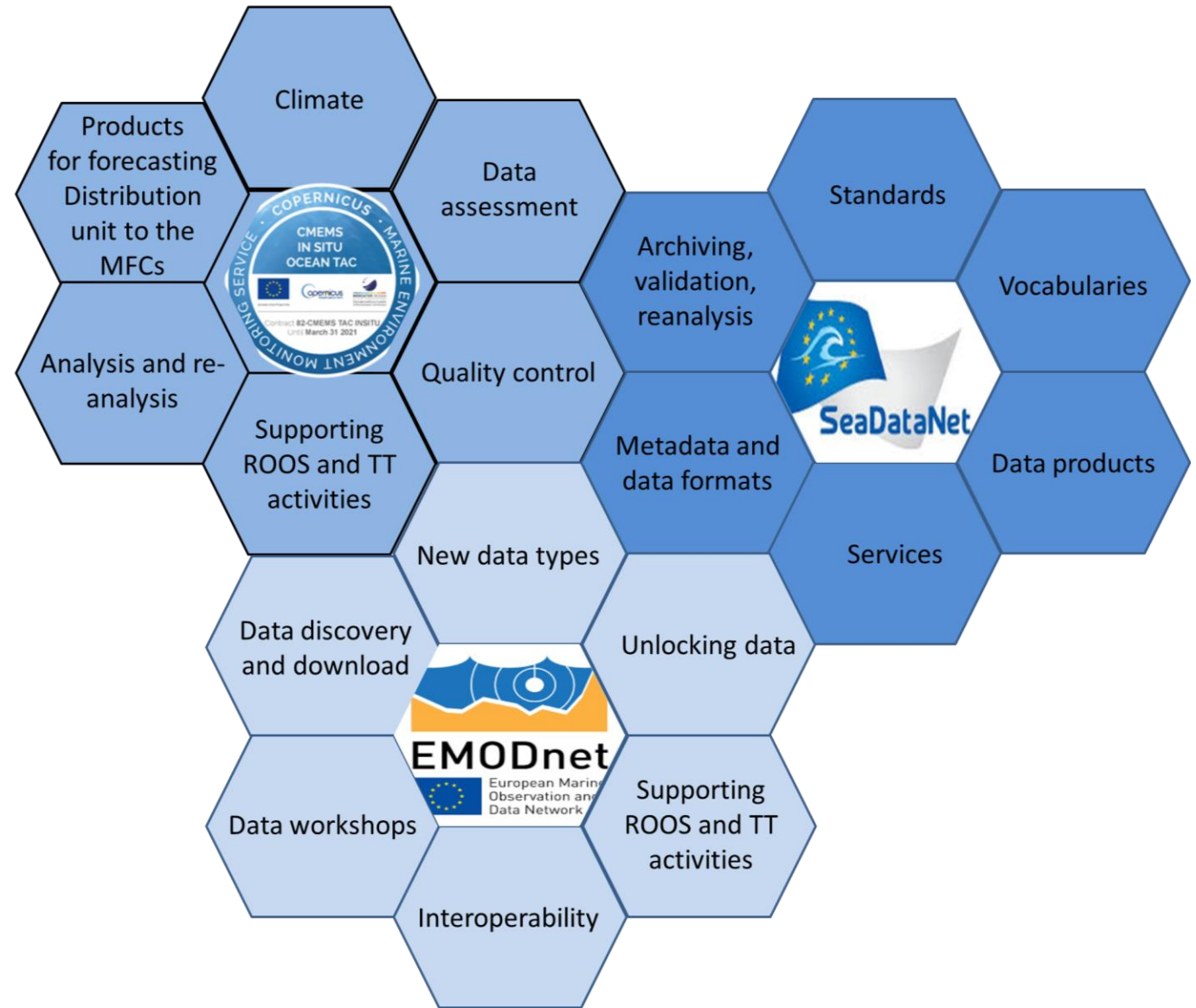
**Copernicus Marine Environment Monitoring Service (CMEMS)**

**and**

**SeaDataNet (SDN)**

**Cooperation areas:**

- Development, maintenance, adoption and promotion of standards
- Development, adoption and promotion of QA-QC methodologies
- Metadata and data exchange from SDN to CMEMS INSTAC
- Metadata and data exchange from CMEMS INSTAC to SDN
- Development on products
- Distribution of products
- Teaming up in relevant projects





Provider :

**SMHI - Swedish Meteorological and Hydrological Institute - Sweden**

Report Period : 01/05/2019 - 31/05/2019

Total views 558

Total download long term rep. file 5

Total download NRT latest file 5

Total download CDI file 0

Total download NRT monthly file 42

Total request web service 125

### Top 5 most viewed/downloaded platform

Platform	Viewed	Download	Web service	Total
Knollsgrund	219	2	3	224
FinngrundetWR	79	2	3	84
HuvudskarOst	74	3	2	79
VaderoamaWR	25	2	4	31
StenaNordica	19	4	0	23

### Views per Country

Country	Tot
Sweden	237
Spain	121
Germany	75
Republic of Lithuania	33
China	29
Russia	23
United Kingdom	17
Italy	12
France	5
Denmark	3
United States	3

### Downloads per Country (data usage)

Country	NRT Latest	NRT Monthly	Long term rep.	CDI	Web service	Tot
United States	0	0	0	0	67	67
France	0	0	0	0	46	46
Germany	0	39	4	0	0	43
Belgium	0	0	0	0	12	12
Republic of Lithuania	4	0	0	0	0	4
United Kingdom	0	2	1	0	0	3
Italy	1	0	0	0	0	1
Spain	0	1	0	0	0	1



Home

## Welcome to the EMODnet Data Ingestion portal

The European Marine Observation and Data Network (EMODnet) consists of more than 160 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.

[READ MORE](#)

## EMODNET INGESTION



[Submit your data files](#)



[Ingest operational data](#)



[View submissions](#)



[Check guidelines for formatting data](#)



[Data wanted](#)



[Help](#)



# DATA INGESTION PORTAL

Wake up your data - set them free for Blue Society

Search



CONTACT US

ABOUT

DATA SUBMISSION

OPERATIONAL DATA

SUBMISSIONS

GUIDELINES

DATA WANTED

HELP

PROMOTION

CENTRAL PORTAL

Back to **SOOS** Southern Ocean Observing System

Not logged in

About SOOS Platforms 45181

Search platform...

Search point 40.25,89.45

Clear Selection

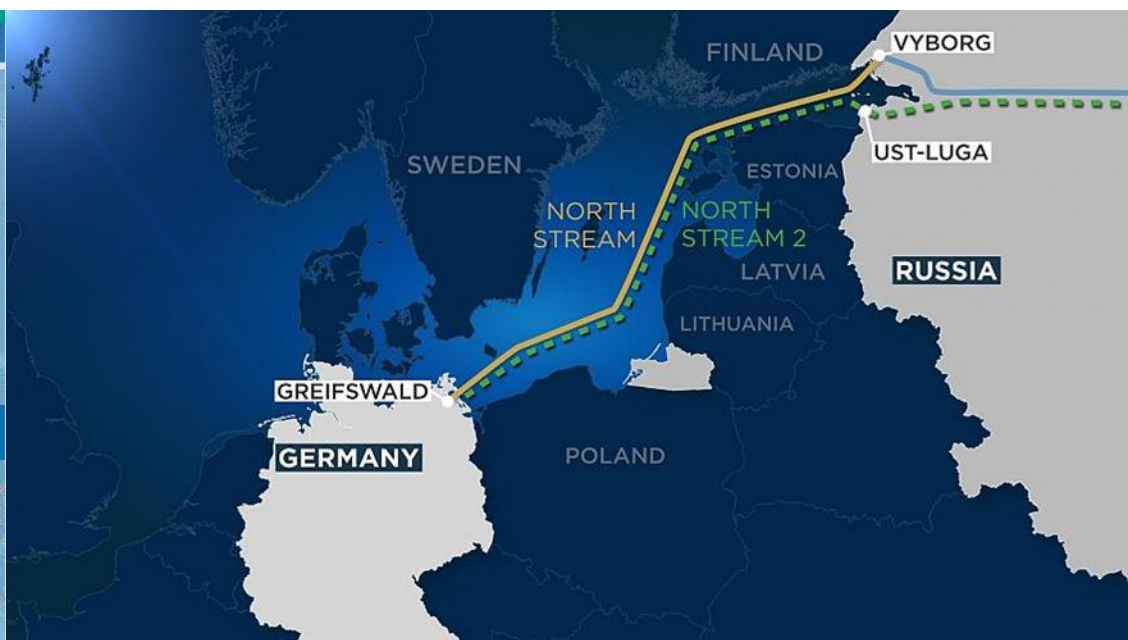
OBSERVATION TYPE

- TURN ON ALL OBSERVATIONS
- TURN OFF ALL OBSERVATIONS

EMODnet Physics

- ARGO/PROFILER
- BATHY MESSAGES ON GTS
- CTD PROFILES
- DRIFTING BUOYS
- FERRYBOX/SHIP
- GLIDERS
- MARINE MAMMAL
- MINI LOGGER
- MOORING TIME SERIES
- PROFILING MOORING
- RADAR
- RIVER STATION
- TESAC MESSAGES ON GTS
- TIDE GAUGE
- XBT OR XCTD PROFILES

7 DAYS 30 DAYS 60 DAYS 1 YEAR 10 YEARS RECENT ALL TIMES >>



SAILDRONE BETA

World - Arctic - Western Pacific - Eastern Pacific - Tropical Pacific - Southern Ocean - North Atlantic

Filter Data

Data Density (150,133,500 samples)

Selected

- 54 datasets
- 22 variables
- 150,133,500 samples

About this data

Start Date: 2015-04-21

End Date: 2019-06-04

Duration: 1505 days

Platforms: 35 saildrones

Export Data

SAILDRONE BETA

World - Arctic - Western Pacific - Eastern Pacific - Tropical Pacific - Southern Ocean - North Atlantic

Filter Data

Data Density (3,120,000 samples)

Selected

- 2 datasets
- 22 variables
- 3,120,000 samples

About this data

Start Date: 2019-04-22

End Date: 2019-06-04

Duration: 43 days

Platforms: 2 saildrones

Export Data



Picture by NASA / Kathryn Hansen



[Home](#) » [Meetings](#) » [Conferences](#) » [Polar Data Forum III](#)

## Polar Data Forum III - November 2019 - Helsinki, Finland

### Details

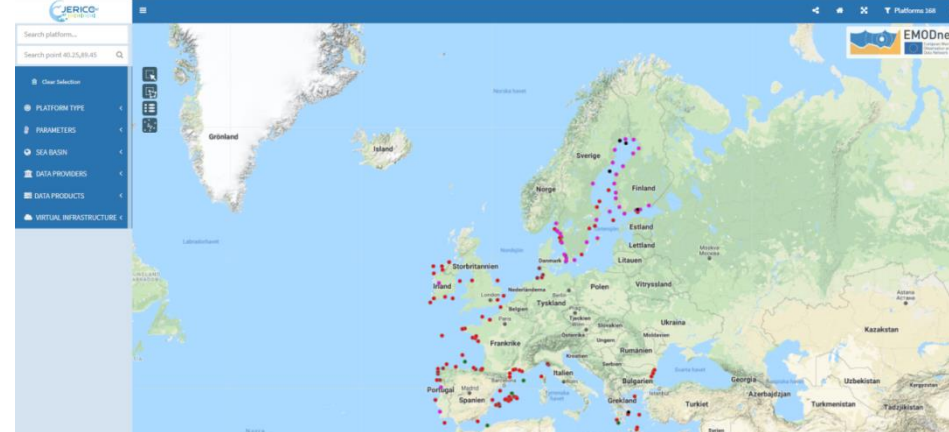
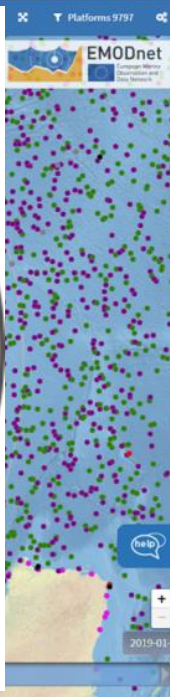
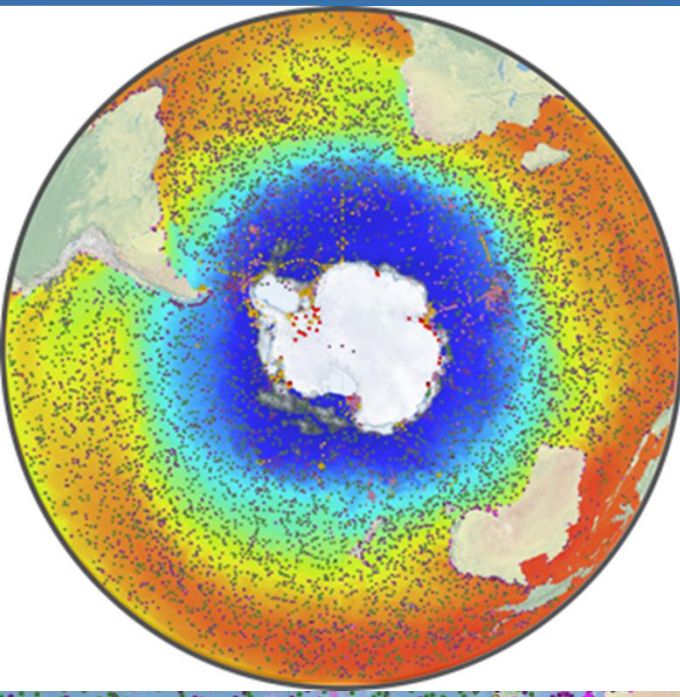
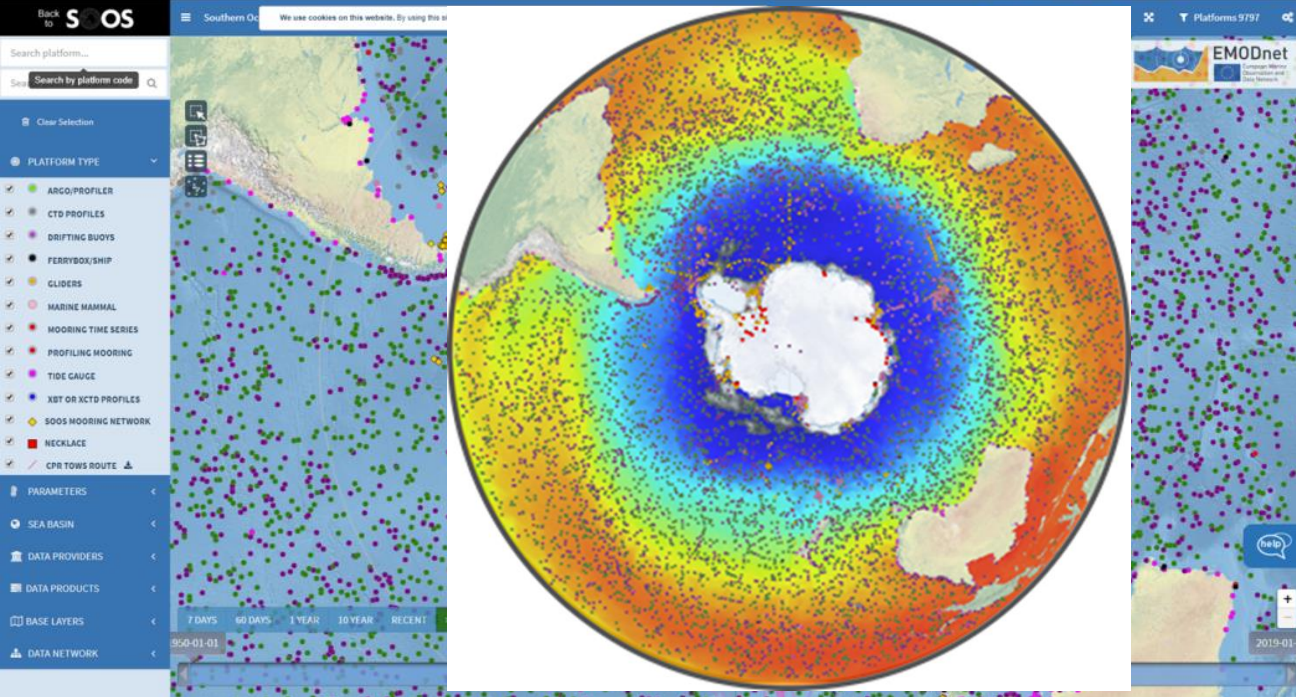
📅 Published: 13 March 2019

Following conversations at the Polar Data Planning Summit in Boulder, and the Polar Data and Systems and Architecture Workshop in Geneva in 2018, we are pleased to announce that the Third Polar Data Forum (PDF III) will be hosted by the [Finnish Meteorological Institute](#) at their Dynamicum campus in Helsinki from November 18th to 22nd, 2019. PDF III will be co-organized with regional partners including the [INTAROS project](#) in conjunction with the [EU Arctic Cluster](#), the [Royal Netherlands Institute for Sea Research](#), and other European organizations. The Forum will be co-convened by the [IASC-SAON Arctic Data Committee](#), [Southern Ocean Observing System](#), [Standing Committee on Antarctic Data Management](#), the [World Data System](#) and other organizations engaged in polar data management.

PDF III will be a two day conference style meeting in support of information exchange, with the remainder of the week using a “hackathon” approach that will build on the development work done in [Boulder](#), [Geneva](#) and other related meetings.

All information about PDF III can be found on [polar-data-forum.org](https://polar-data-forum.org).

Next >



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 633211

EMODnet

Search platform...  
 Search point 40.25,89.45

Clear Selection

PLATFORM TYPE

PARAMETERS

SEA BASIN

DATA PROVIDERS

DATA PRODUCTS

DATA NETWORK

7 DAYS 60 DAYS 1 YEAR 10 YEAR RECENT

2019-01-01

**euskoos**

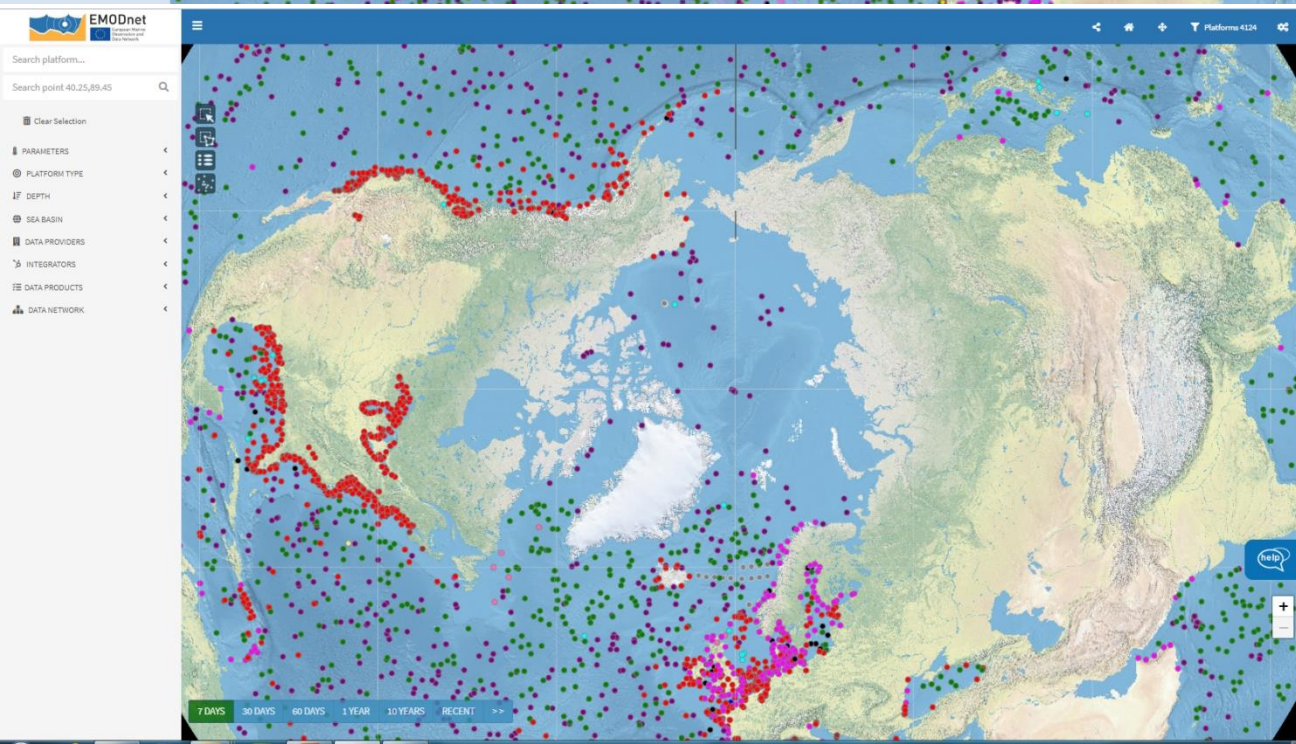
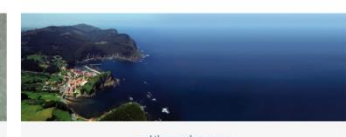
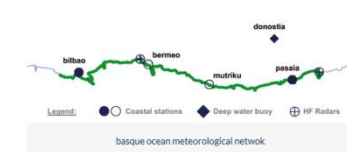
Euskara | Español | English | Français

euskalmet  
 agencia vasca de meteorología

azti  
 Transforming Science into Business

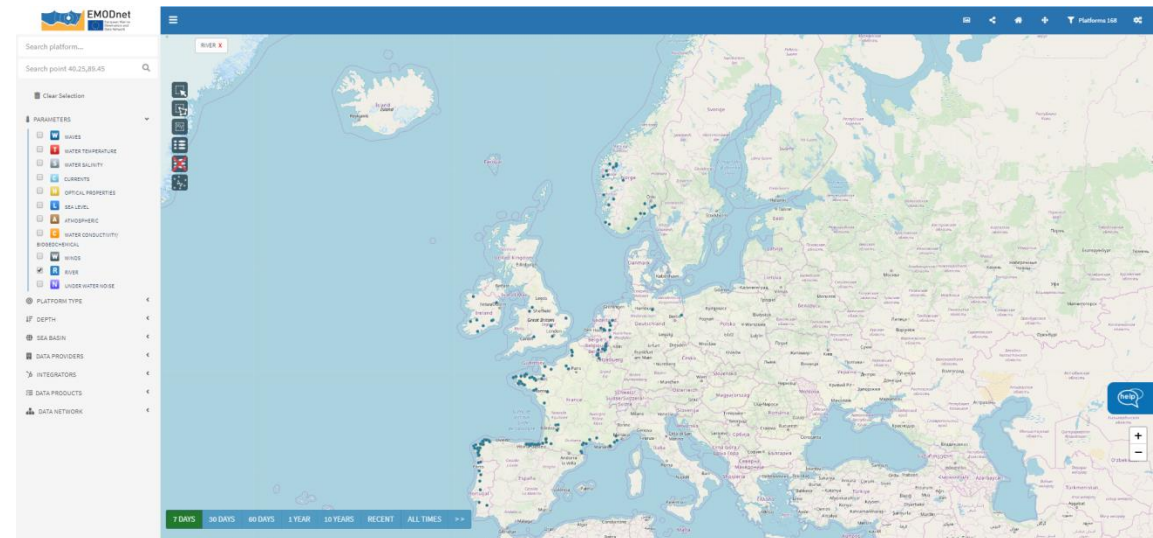
home what is EUSKOOS? + data + info contact

data




# What can EMODnet do for BOOS?

- Organise national / regional data workshops to inform on EU data initiatives and get new data providers on board, including private companies
- Unlock data in the region
- Organise regional end user workshops to link closer to end users and explore end user needs
- Support platform specific activities
- Encourage data sharing  
River data, underwater noise  
and NRT data from R/V high priority
- If BOOS wants a portal – EMODnet has it




1 HD

You can access meeting controls here 

Show shared content view



ROOM: L-99.04/A022

 Switch to See Active Speaker

