



EMODnet



European Marine
Observation and
Data Network

<https://www.youtube.com/watch?v=7taT9croynk&feature=youtu.be>



EMODnet in a nutshell: unlocking, and offering access to, European marine data belonging to 7 themes!



EMODnet Secretariat,
Patrick Gorringer EMODnet
Physics, SMHI,.....

The European Marine Observation and Data Network (EMODnet) is financed by the European Union under Regulation (EU) No 508/2014 of the European Parliament and of the Council of 15 May 2014 on the European Maritime and Fisheries Fund.



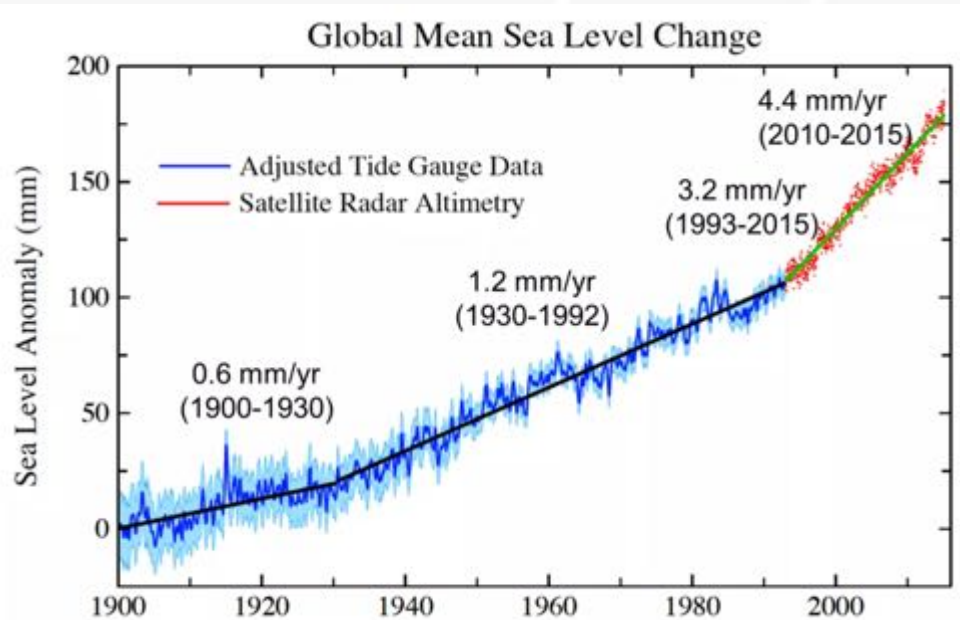
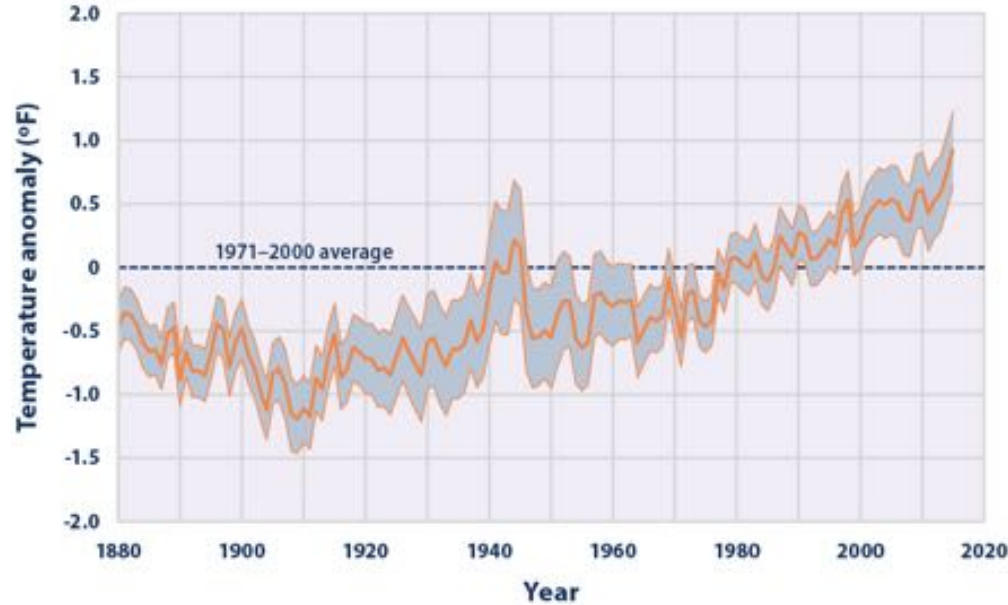


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European Marine
Observation and
Data Network

- ① The ocean is hot
- ① Melting of glaciers
- ① Sea level rise
- ① Its sour, breathless and full of plastics





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European Marine
Observation and
Data Network

Rapid access to marine data is vital in...

...understanding trends and forecasting future changes

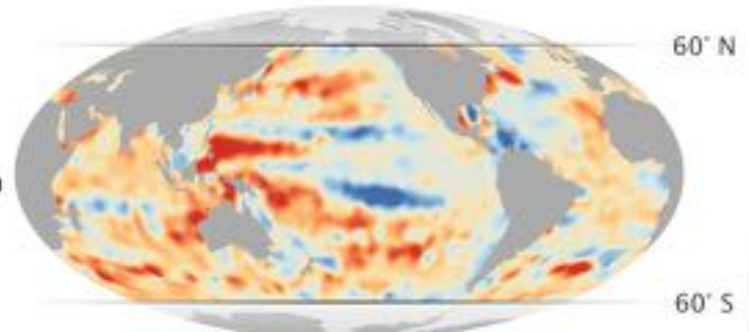


...addressing the threats to marine

...developing policies to protect vulnerable coastal & ocean areas



200-300m



-0.15



...supporting 'Blue Growth'

We need a healthy ocean. A healthy ocean needs observations and easy, free access to data and information

Table 1a
Characteristic of the beach between spring tide high water mark and spring tide low water mark at different stations along the Belgian coast

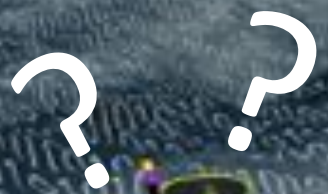
K. P.	Localisation	Date	Mean slope	Transversal width (m)
1	De Panne	9.8.1978	1,3	480
12	Doutdinkekerke	26.8.1978	1,5	260
37 (*)	Kluiskerke	19.8.1978	2,7	360
37 (**)	Kluiskerke	26.9.1978	2,9	310
42	Villemere (Wendulor)	28.9.1978	2,1	340
38	Kluiskerke	5.6.1978	2,0	320
51	Knokke	8.8.1978	1,7	200
68	Knokke-Wein	24.7.1978	2,4	

K. P. = Kilometer-number before measurement
(*) before measurement
(**) after measurement and comprising a back-beach of about 45 m width

Table 2
Evolution of the transversal mobility (M) and the transversal beach budget (B) at the station KP 38 at Kluiskerke over different time spans P

Time span P	total mobility (m ² /t ₁)	daily mean (m ² /t ₁ ·d)	total budget (m ² /t ₁)	daily mean (m ² /t ₁ ·d)
26.1.76/08.1.77	49,1	0,140	- 25,5	- 0,051
08.1.77/15.1.78	65,4	0,224	- 29,0	- 0,212
15.1.78/15.1.79	34,8	0,099	- 2,6	- 0,207
24.1.76/15.1.79	109,4	0,101	- 109,1	- 0,101

d per day
 S₁ per length unit (l m)
 S₂ per width unit (distance between STW mark and RTW mark l = 230 m at station KP 38)
 + gain
 - loss



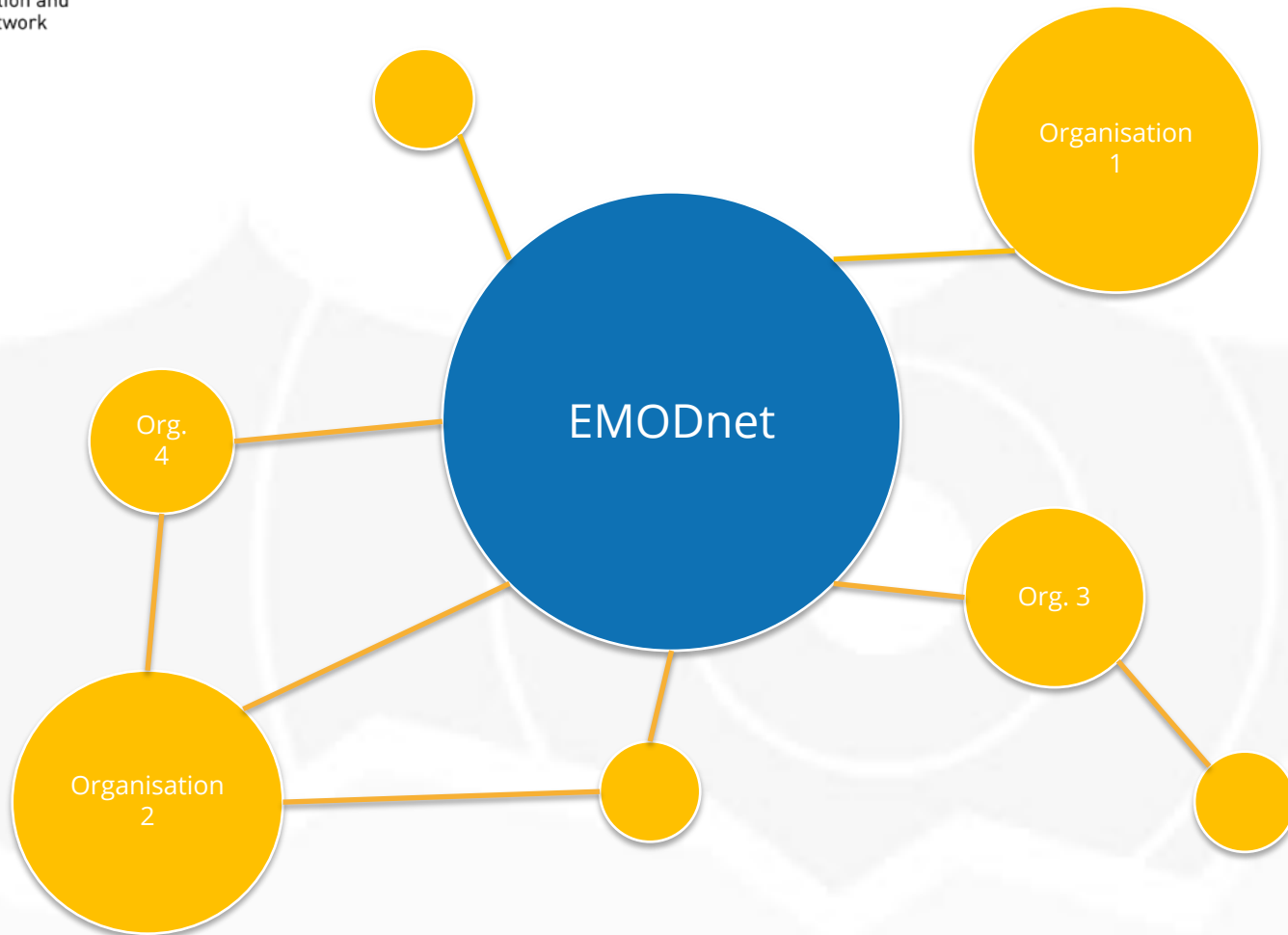


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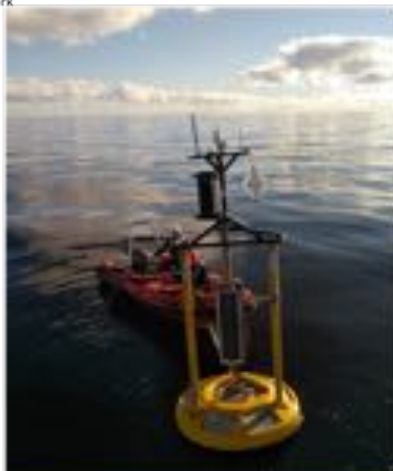


European Marine
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Data Network

EMODnet network unlocks hidden and fragmented marine data resources



Unlocking data, bringing communities together and contributing to a better, data, coordinated observing system



Credit: Dan Costa, SMHI, SOCIB, REDMAR



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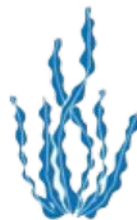
EMODnet gives access to a range of data archives across 7 themes



BATHYMETRY



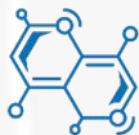
GEOLOGY



SEABED HABITATS



PHYSICS



CHEMISTRY



BIOLOGY



HUMAN ACTIVITIES



EMODnet



European Marine
Observation and
Data Network

EMODnet Central Portal gives access to these data archives ...



CENTRAL PORTAL

Your gateway to marine data in Europe

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[ATLAS OF THE SEAS](#)

The European Marine Observation and Data Network (EMODnet)

The European Marine Observation and Data Network (EMODnet) consists of more than 150 organisations assembling marine data, products and metadata to make these fragmented resources more available to public and private users relying on quality-assured, standardised and harmonised marine data which are interoperable and free of restrictions on use. EMODnet is currently in its third development phase with the target to be fully deployed by 2026.

User Survey

Help us improve! Please take a few minutes to fill in our short [user survey](#).

Create your own marine and coastal maps with the new European Atlas of the Seas

EOOS Conference "Evolving the European Ocean Observing System (EOOS): Connecting communities for end-to-end solutions"



EMODnet



... through dedicated data portals





BATHYMETRY

Data on bathymetry (water depth), coastlines, and geographical location of underwater features, wrecks.


[USE CASES](#) [INFO](#) [ACCESS](#)



GEOLOGY

Data on seabed substrate, sea-floor geology, coastal behaviour, geological events, and minerals.

[USE CASES](#) [INFO](#) [ACCESS](#)



SEABED HABITATS

Data on modelled seabed habitats based on seabed substrate, energy, biological zone, and salinity.

[USE CASES](#) [INFO](#) [ACCESS](#)



CHEMISTRY

Data on the concentration of nutrients, organic matter, pesticides, heavy metals, radionuclides and antifoulants in water, sediment and biota.

[USE CASES](#) [INFO](#) [ACCESS](#)



BIOLOGY

Data on temporal and spatial distribution of species abundance and biomass from several taxa.

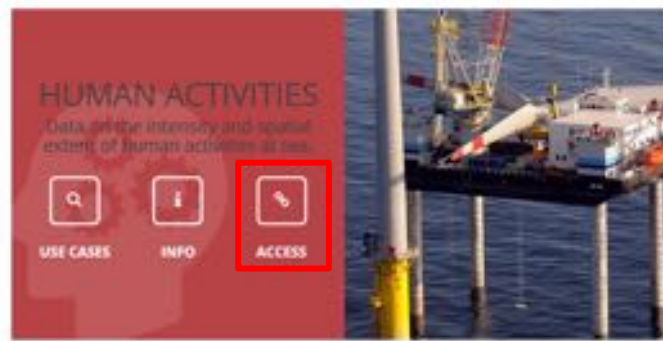
[USE CASES](#) [INFO](#) [ACCESS](#)



PHYSICS

Data on salinity, temperature, waves, currents, sea-level, light attenuation, and FerryBoxes.

[USE CASES](#) [INFO](#) [ACCESS](#)



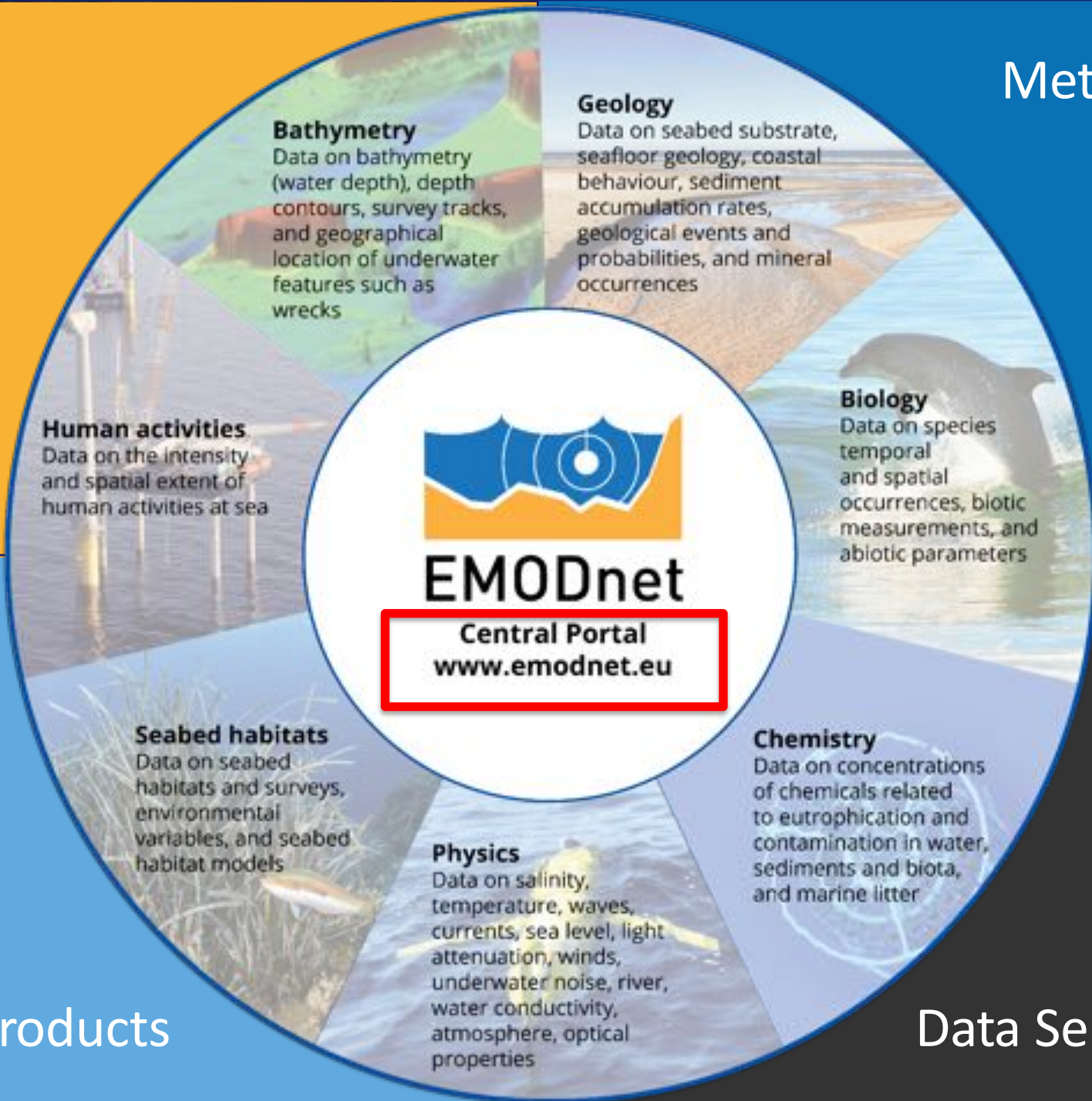
HUMAN ACTIVITIES

Data on the intensity and spatial extent of human activities at sea.

[USE CASES](#) [INFO](#) [ACCESS](#)

Data

Metadata



Bathymetry
Data on bathymetry (water depth), depth contours, survey tracks, and geographical location of underwater features such as wrecks

Geology
Data on seabed substrate, seafloor geology, coastal behaviour, sediment accumulation rates, geological events and probabilities, and mineral occurrences

Biology
Data on species temporal and spatial occurrences, biotic measurements, and abiotic parameters

Chemistry
Data on concentrations of chemicals related to eutrophication and contamination in water, sediments and biota, and marine litter

Physics
Data on salinity, temperature, waves, currents, sea level, light attenuation, winds, underwater noise, river, water conductivity, atmosphere, optical properties

Seabed habitats
Data on seabed habitats and surveys, environmental variables, and seabed habitat models

Human activities
Data on the intensity and spatial extent of human activities at sea

Data Products

Data Services

How much plastic waste
has ended up in the sea
since I started talking.....

150 tons!



CHEMISTRY

Data & products on marine water quality

Search



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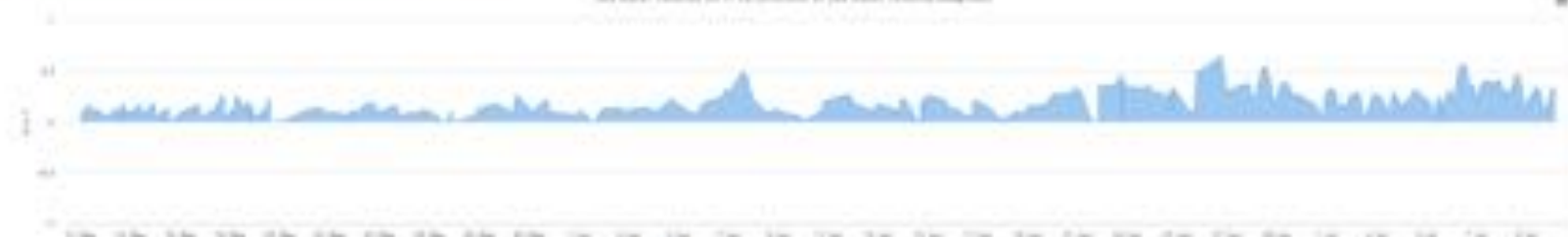
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[HELP](#)





Sea Water Velocity (m s⁻¹): Direction of Sea Water Velocity (degrees)



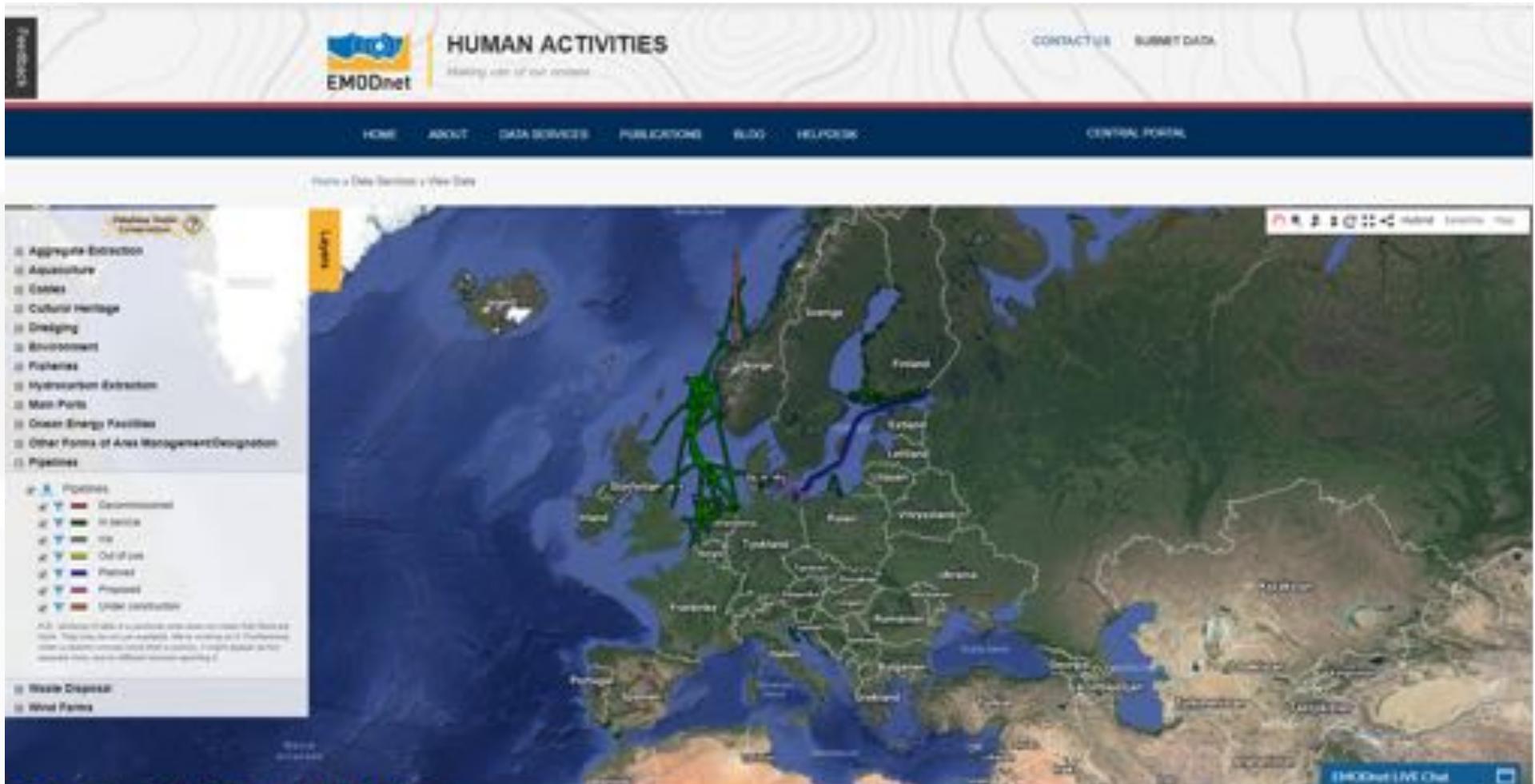
Sea Water Velocity (m s⁻¹): Magnitude of Sea Water Velocity



Sea Water Velocity (m s⁻¹): Direction of Sea Water Velocity (degrees)

When a pipeline needs to be installed, a very complex task is the pipeline route as it requires information on seabed topography (**EMODnet Bathymetry and Geology**), obstructions, debris, existing structures, other human activities, existing pipeline/ cable crossing (**EMODnet Human Activities**). In some cases information on water salinity, waves, and currents (**EMODnet Physics**) is also needed.

EMODnet Human Activities recently created a dataset on **offshore pipelines**

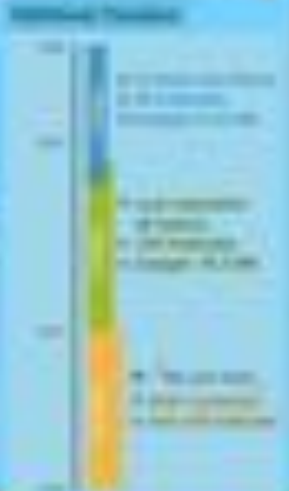


Over 100 organisations collaborating and creating available marine data, metadata & products

7



6
600 km depth
2 km water column
2 km seabed
Research Vessels
Hydrographic Survey Vessels



1
1000 km depth
2000 km depth
2000 km depth

1
1000 km depth
2000 km depth
2000 km depth

EMODnet Structure

EMODnet

EMODnet is a...
EMODnet is a...
EMODnet is a...

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EMODnet gives access to a range of data archives across 7 themes



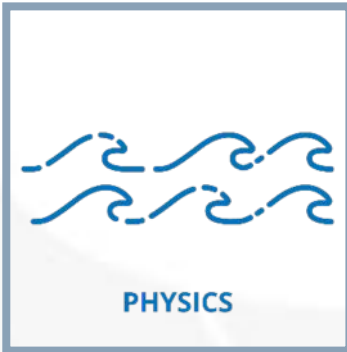
BATHYMETRY



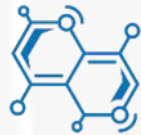
GEOLOGY



SEABED HABITATS



PHYSICS



CHEMISTRY



BIOLOGY



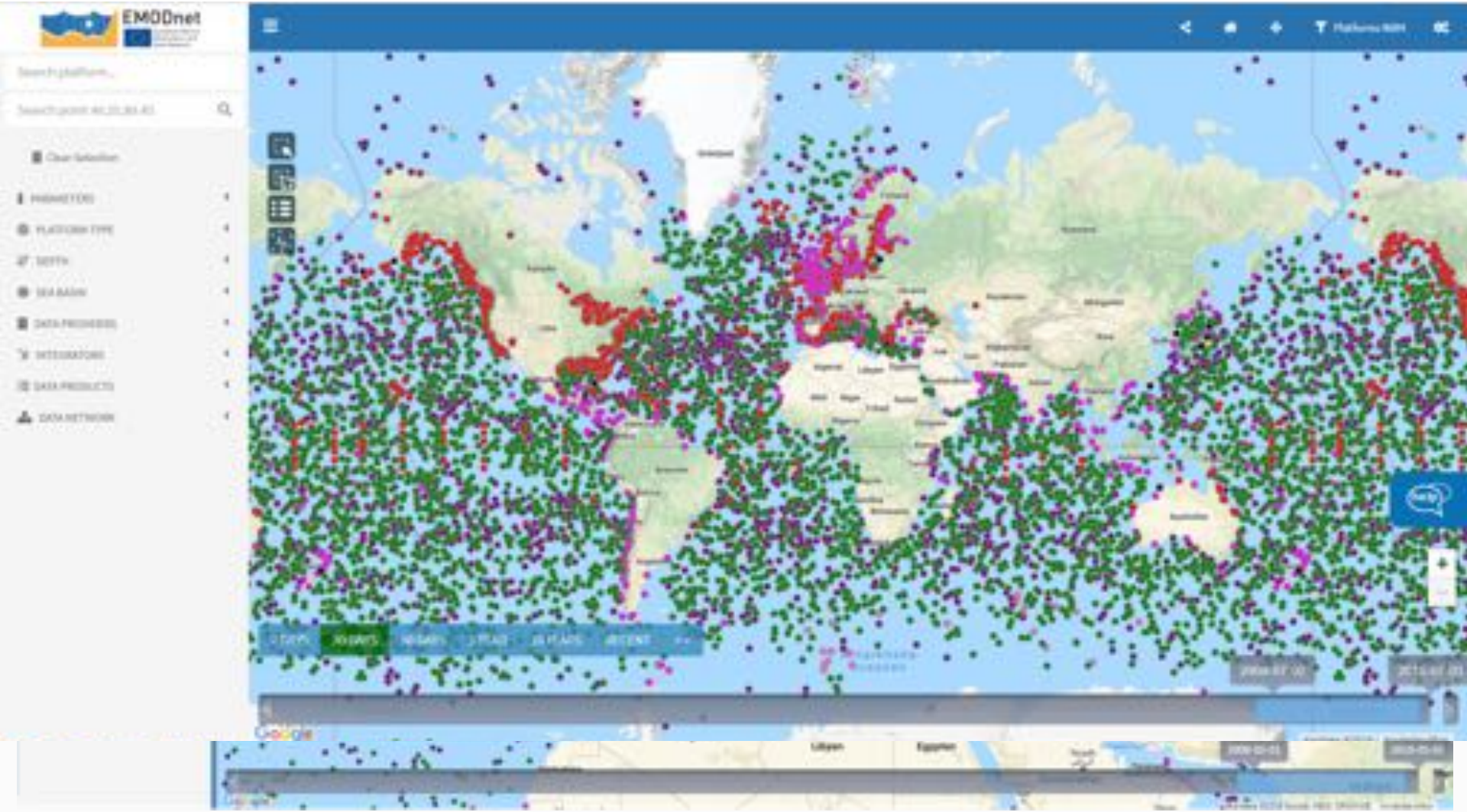
HUMAN ACTIVITIES



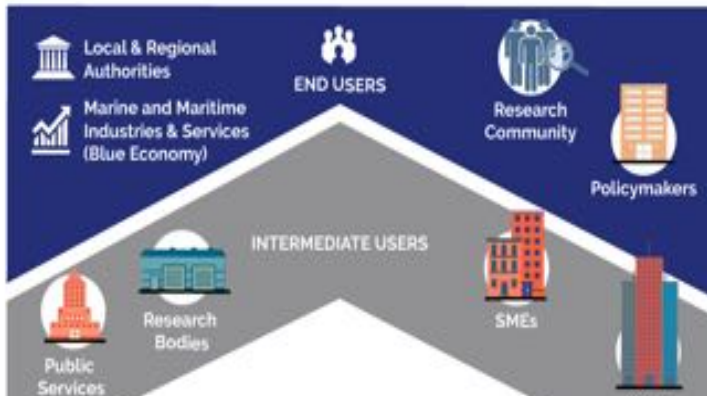
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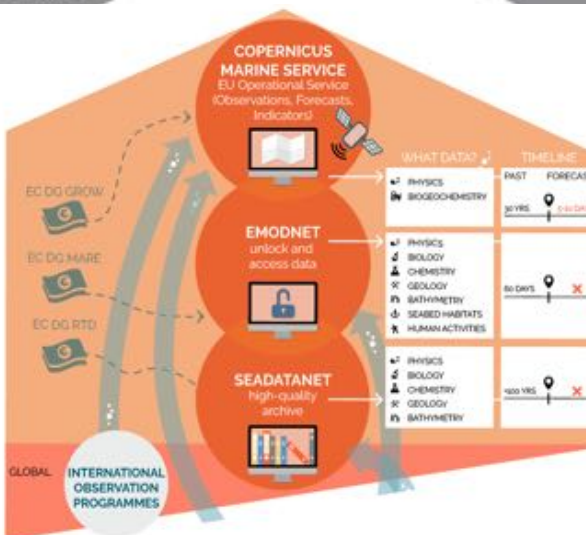
European Marine
Observation and
Data Network



USERS OF MARINE INFORMATION



AGGREGATORS OF DATA / SERVICE PROVIDERS



OPERATORS OF INSTRUMENTS

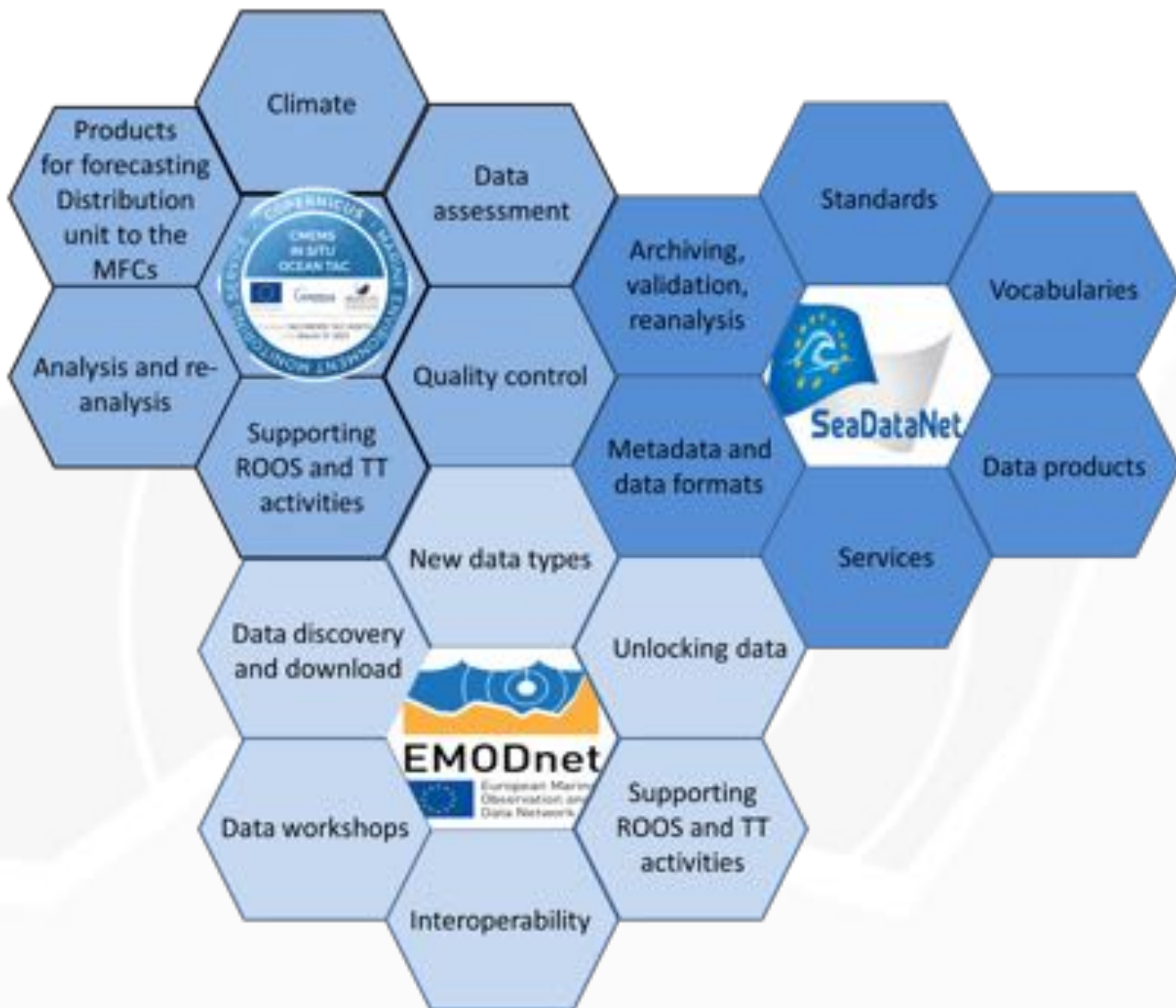


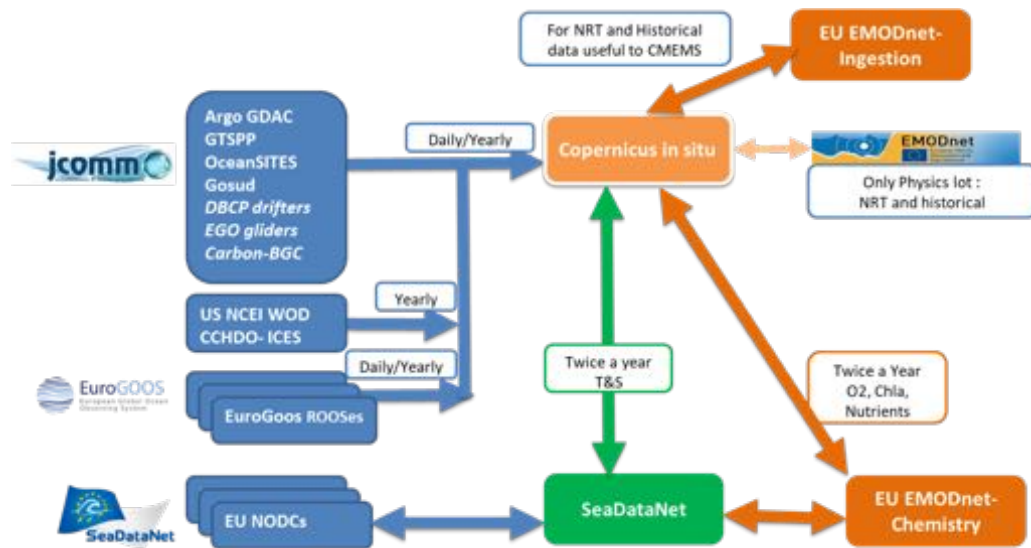
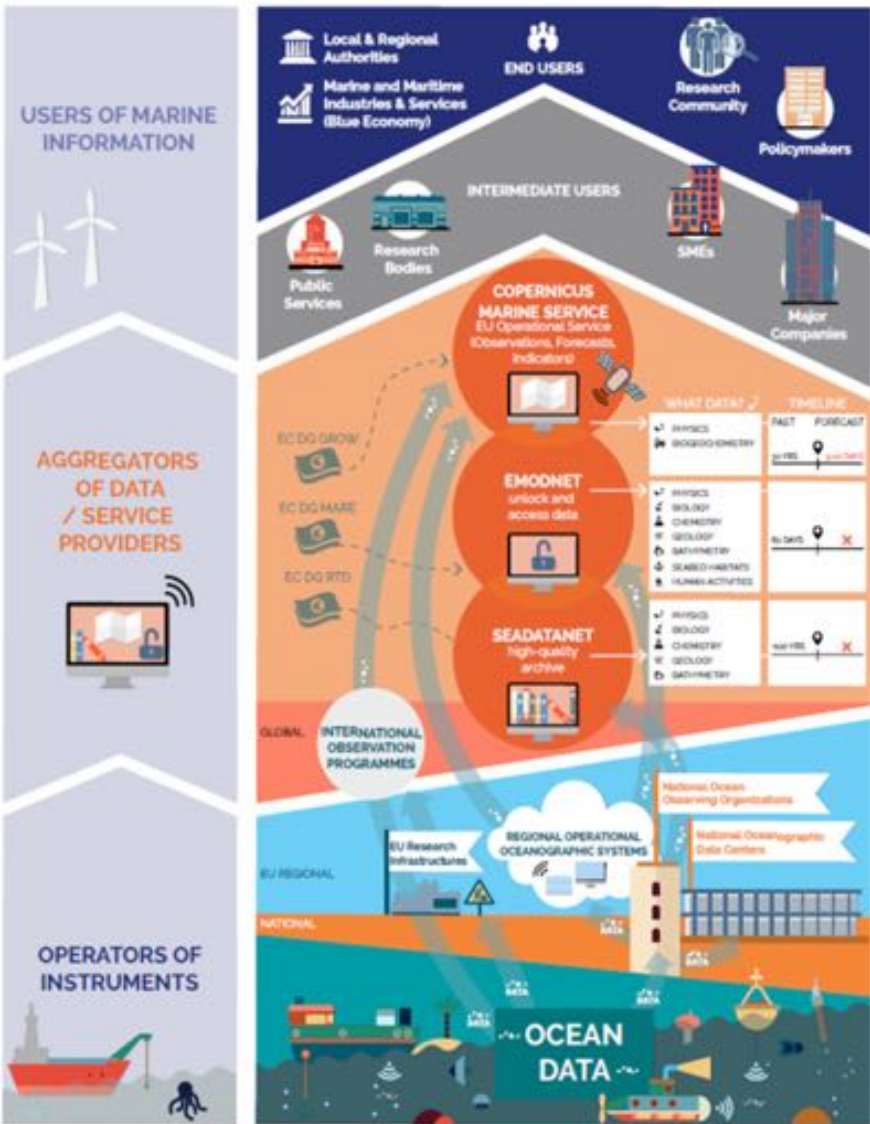


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Observation and
Data Network





Data

Near real-time (NRT) data at in situ observatories at sea

Reprocessed NRT data

Archived data derived from further elaboration and validation

Products

Data products

- Sea Level
- Temperature & Salinity
- Currents
- Ice coverage
- River runoff & TSM
- Impulsive Noise

Parameters

Temperature

Wind

Salinity

Atmospheric param.

Waves

Biogeochemical param.

Currents

Optical properties

Sea Level

Ice data

Under water noise

River Runoff

Services

Data portal

Catalogue

Products portal

Newsletter & digest

Monitoring tools

Reports (mail)

http & permaURLs

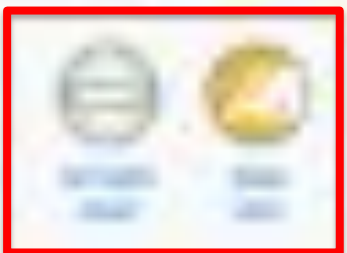
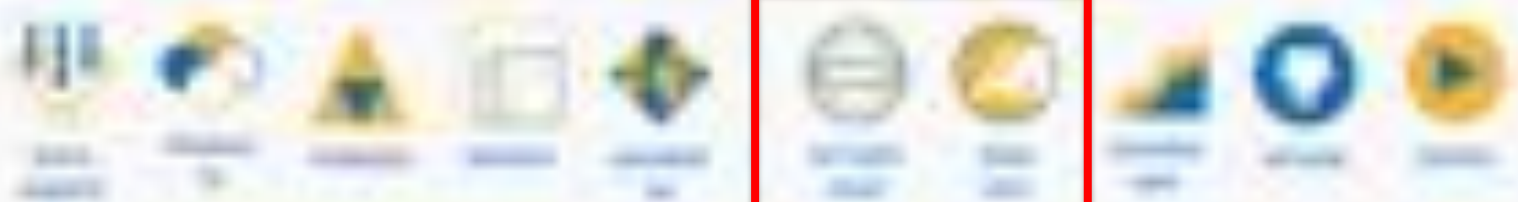
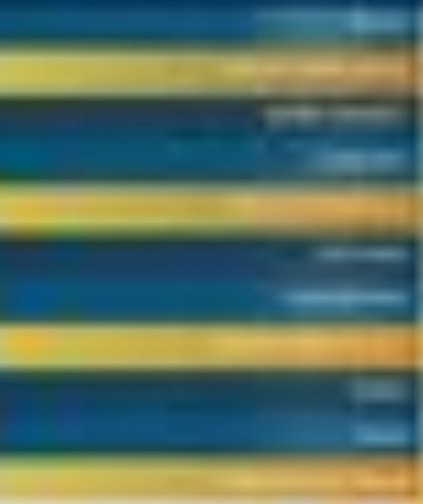
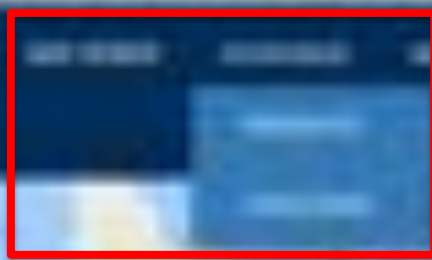
API REST/SOAP

OGC WMS, WFS, WCS

THREDDS

ERDDAP

widgets



Search platform...

Search point 40.25,89.40

Clear Selection

PARAMETERS

PLATFORM TYPE

- ARGO PROFILES
- BATHYMETRIES ON STD
- CTD PROFILES
- DRIFTING BUOYS
- FERRISSC SHIP
- GLIDERS
- HABIBO SWIMM
- HW LOGGER
- MOONRA TIDE SERIES
- PROFILE MOONING
- RACK
- RIVER STATION
- TOSAC METRIES ON STD
- TIDE GAUGE
- TID OR CTD PROFILES
- TIDE GAUGE SFC

DEPTH

SEA BASIN

DATA PROVIDERS

INTEGRATORS

DATA PRODUCTS

DATA NETWORK



7 DAYS 30 DAYS 60 DAYS 1 YEAR 10 YEARS RECEIVED

Search platform...

Search point 40.25,89.43

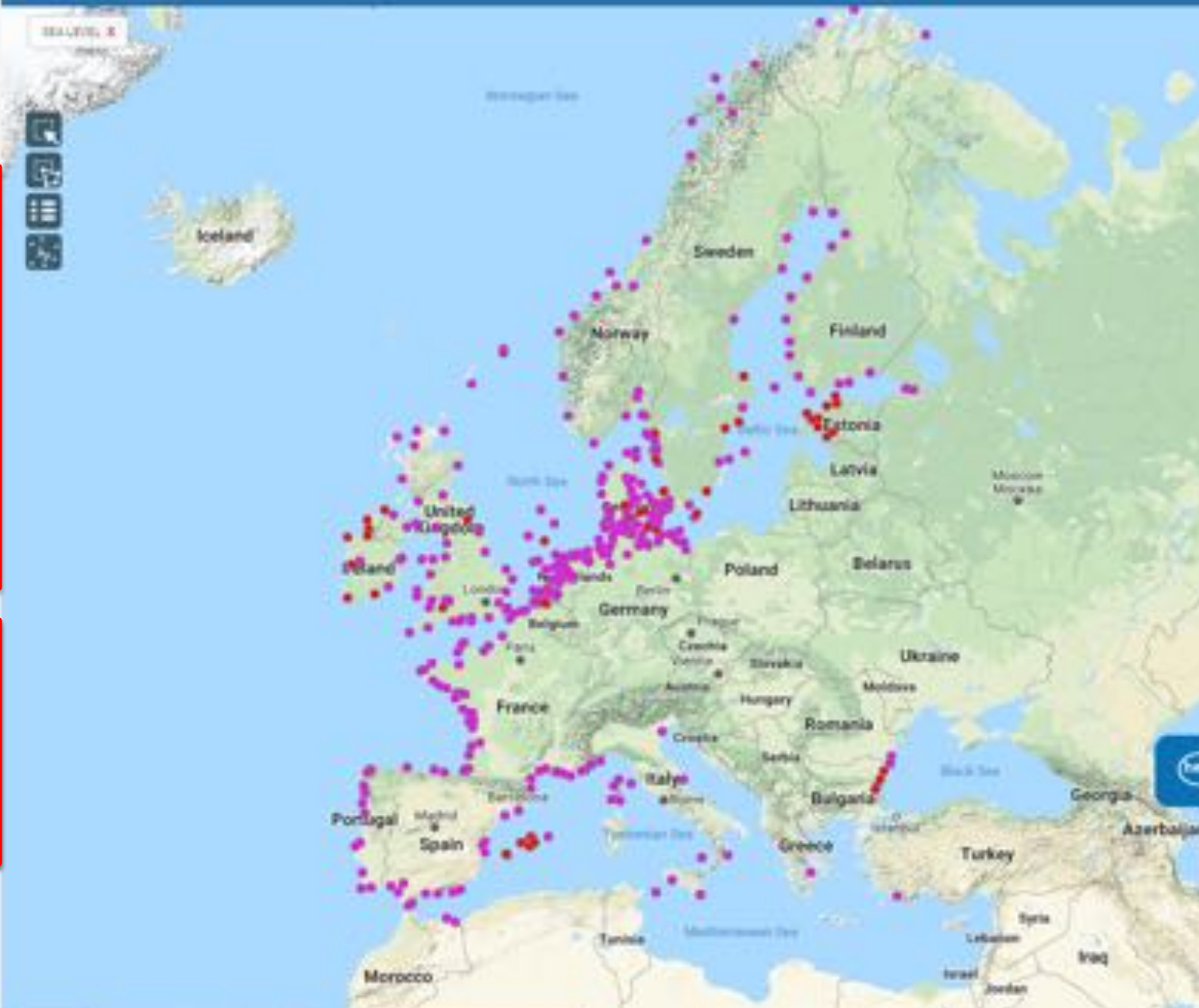
Clear Selection

PARAMETERS

- WAVES
- WATER TEMPERATURE
- WATER SALINITY
- CURRENTS
- OPTICAL PROPERTIES
- SEA LEVEL
- ATMOSPHERIC
- WATER CONDUCTIVITY
- BIOGEOCHEMICAL
- WINDS
- RIVER
- UNDER WATER NOISE

PLATFORM TYPE

- DEPTH
- SEA BASIN
- DATA PROVIDERS
- INTEGRATORS
- DATA PRODUCTS
- DATA NETWORK



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

[North Shields TQ data](#) | [Select data format and go](#)
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+ NorthShields_of_Level_01
 - NorthShields

Platform	File Type	Modified	Size
NorthShields	Folder		

National Oceanography Centre
Leading international oceanographic research

PLATFORM CODE
 NorthShields
 NorthShields TQ

INSTITUTION
 NOC - National Oceanography Centre
 Southampton - UK
 Main Office - United Kingdom

ASSEMBLY CENTER
 IMOS DAC (Puentes de Enxare)

TYPE
 mooring time series

PRINCIPAL INVESTIGATOR
 IMOS

CMEMS - PROD ID
 IMOS/01/01/01
 GlobalReanalysis/01/01/01

DATUM FOR SRT DAT.
 Admiralty Chart Datum

NOOC
 IMOS - British Oceanographic Data Centre - United Kingdom

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

Year	Depth	Depth_SMP	Latitude	Longitude	Position	Survey	Survey_Year	Survey_Day	Time_UTC
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2018	0	0	55	-1.4500	1	4,386	02	2	0
2018	0	0	55	-1.4500	1	4,396	02	2	0
2018	0	0	55	-1.4500	1	4,406	02	2	0
2018	0	0	55	-1.4500	1	4,416	02	2	0
2018	0	0	55	-1.4500	1	4,426	02	2	0
2018	0	0	55	-1.4500	1	4,436	02	2	0
2018	0	0	55	-1.4500	1	4,446	02	2	0
2018	0	0	55	-1.4500	1	4,456	02	2	0
2018	0	0	55	-1.4500	1	4,466	02	2	0
2018	0	0	55	-1.4500	1	4,476	02	2	0
2018	0	0	55	-1.4500	1	4,486	02	2	0
2018	0	0	55	-1.4500	1	4,496	02	2	0
2018	0	0	55	-1.4500	1	4,506	02	2	0
2018	0	0	55	-1.4500	1	4,516	02	2	0
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2018	0	0	55	-1.4500	1	4,716	02	2	0
2018	0	0	55	-1.4500	1	4,726	02	2	0
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2018	0	0	55	-1.4500	1	4,946	02	2	0
2018	0	0	55	-1.4500	1	4,956	02	2	0
2018	0	0	55	-1.4500	1	4,966	02	2	0
2018	0	0	55	-1.4500	1	4,976	02	2	0
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2018	0	0	55	-1.4500	1	4,996	02	2	0
2018	0	0	55	-1.4500	1	5,006	02	2	0



EMODnet



PHYSICS

Oceans physics at your fingertips



DATA PRODUCTS on physical parameters related to

waves

water temperature

water salinity

currents

optical properties

sea level

atmosphere

water conductivity / biogeochemistry

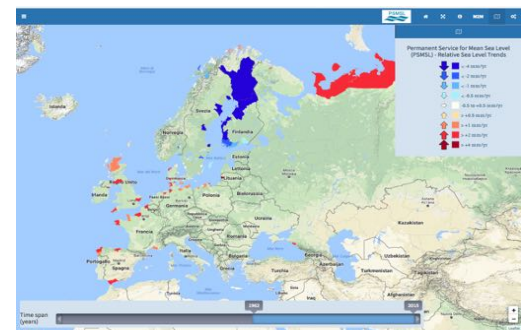
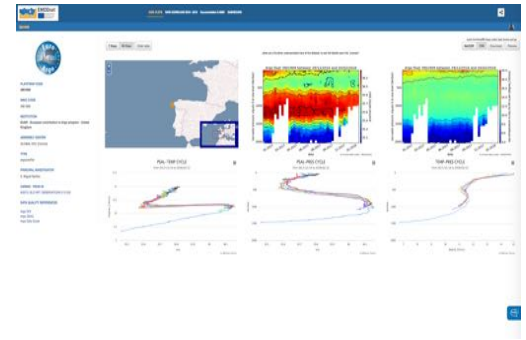
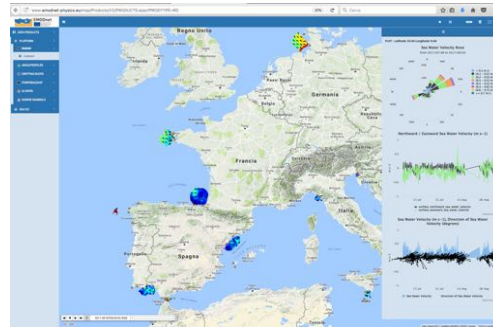
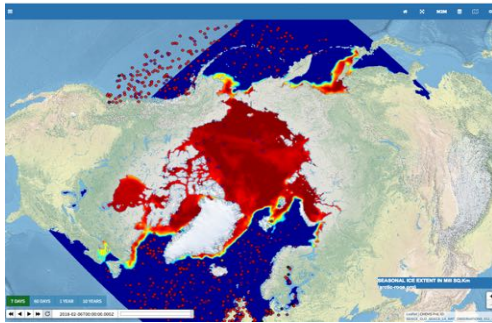
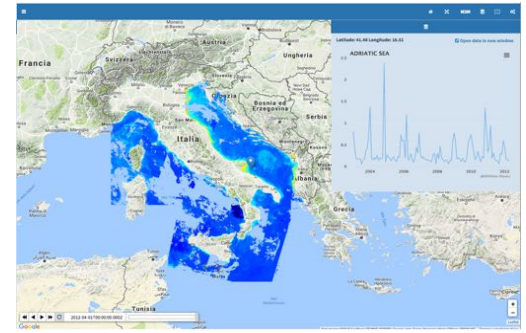
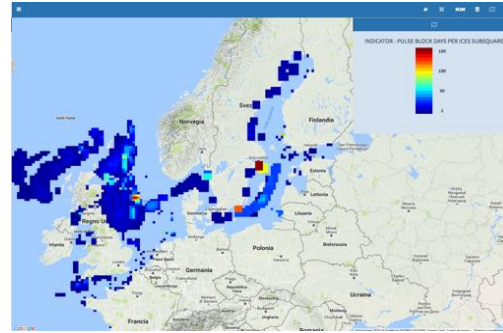
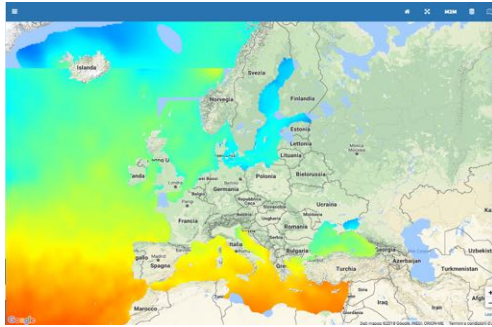
winds

river runoff

underwater noise



Products

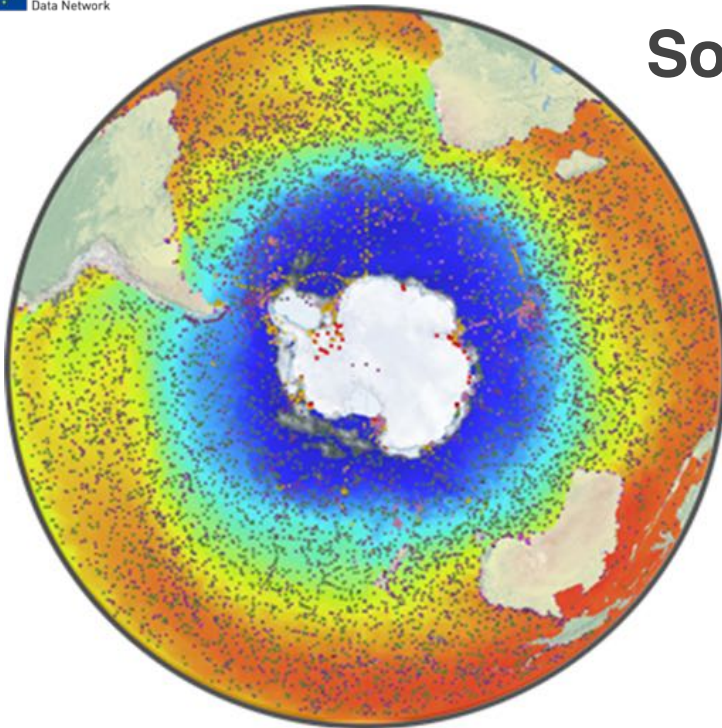




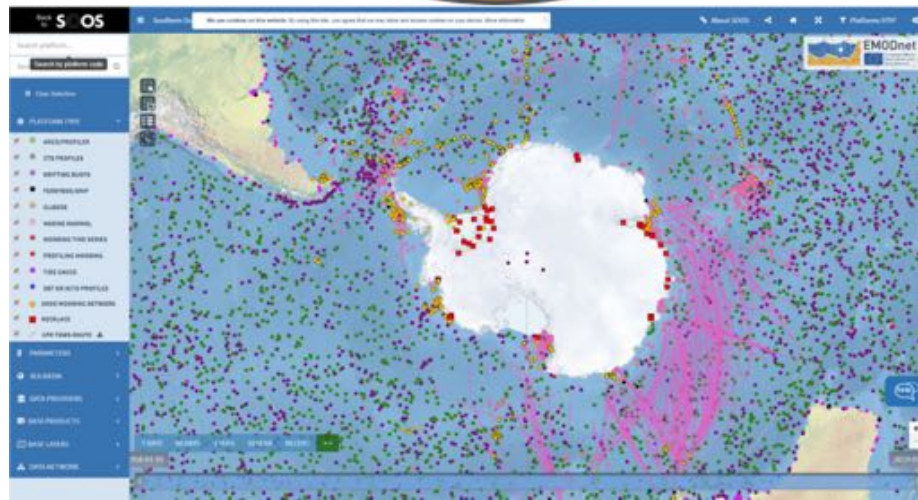
2004-01-27T00:00:00Z 2017-09-21T11:00:00Z

Unlocking data and bringing communities together

Southern Ocean Observing System, SOOSmap



- Explore spatial, temporal and multidisciplinary ocean observation data
- Overlaid on data products (e.g. SST, sea ice) and key geographic boundaries (e.g. CCAMLR)
- Discover circumpolar datasets
- Plot recent observations
- Download datasets



www.soos.aq/soosmap



Data model

- ① A data model for implementation of HF radar data in European marine data infrastructures has been defined

Quality Control

- ① QC standard methodology has been defined for the coordinated implementation of delayed-mode and near real time HF Radar data access

Enhancement of Quality Control procedures for sensor based biochemical data

- ① Establishment of procedures or best practices for the Quality Control procedures that are applied on biochemical data recorded by sensors attached to the existing platforms, both in real-time and delayed-mode

Integration of biological data

- ① In the framework of JERICO-NEXT an operational link has been created with EMODnet biology in order to facilitate the data exchange between existing marine biological data networks and data generated by the project.



Sextant

Information des services géographiques maritimes de France

Accueil

- Présentation
- Site Service
- Recherche



Search

1/100000000

Results 1 to 20 on 20 - 20 no page

Sort by



EMODnet

EMODnet is a pan-European marine monitoring and observation network. It is a key component of the European Commission's research and innovation strategy for growth and employment. EMODnet is a key component of the European Commission's research and innovation strategy for growth and employment. EMODnet is a key component of the European Commission's research and innovation strategy for growth and employment.

hcmr

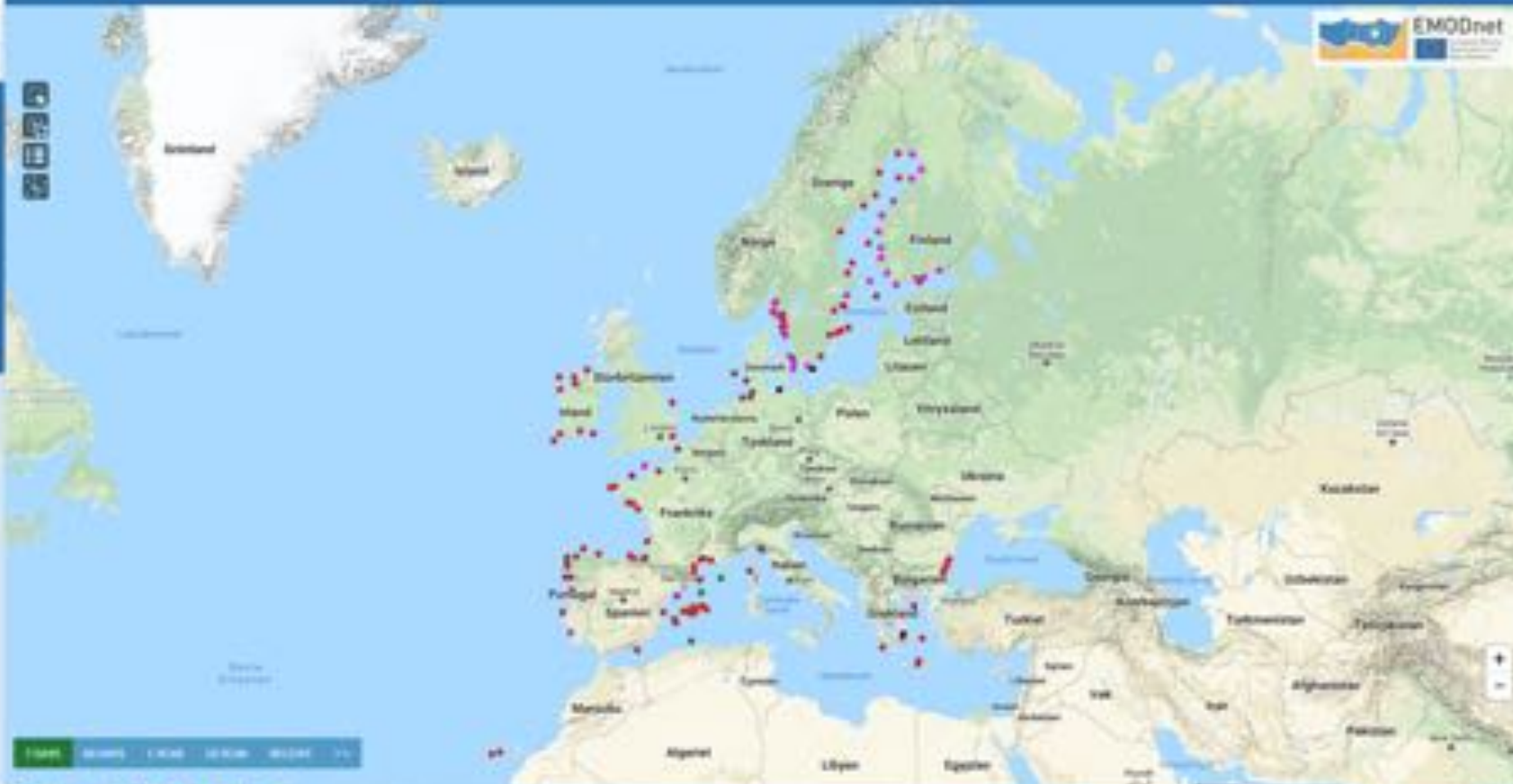
hcmr is a pan-European marine monitoring and observation network. It is a key component of the European Commission's research and innovation strategy for growth and employment. hcmr is a key component of the European Commission's research and innovation strategy for growth and employment.

Procedural Information

Procedural information regarding the EMODnet project. This section provides details on the project's objectives, funding, and implementation. It also includes information on how to access the data and services provided by the network.



- Home
- PLANNING TOOL
- PLANNING TOOL
- DATA BROWSE
- DATA PROCESSING
- DATA PROCESSING
- VIRTUAL INFRASTRUCTURE



1:100000000 1:100000000 1:100000000 1:100000000 1:100000000 1:100000000 1:100000000



EMODnet



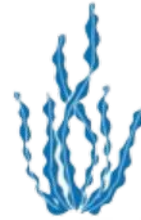
EMODnet gives access to a range of data archives across 7 themes



BATHYMETRY



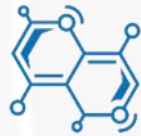
GEOLOGY



SEABED HABITATS



PHYSICS



CHEMISTRY



BIOLOGY



HUMAN ACTIVITIES

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Developing and providing a harmonised Digital Terrain Model (DTM) for the European sea regions

SURVEY DATA SETS

CDI Data Discovery and Access service

READ MORE



EMODnet DTM

Bathymetry Viewing and Download service

READ MORE



COMPOSITE DTM

Sextant Catalogue service

READ MORE



WELCOME TO THE EMODNET BATHYMETRY PORTAL

The **EMODnet-Bathymetry portal** is being developed in the framework of the European Marine Observation and Data Network (EMODnet) as initiated by the European Commission.

It provides a service for viewing and downloading a harmonised Digital Terrain Model (DTM) for the European sea regions that is generated by the EMODnet Bathymetry partnership on the basis of an increasing number of bathymetric data sets. These are





EMODnet



European Marine
Observation and
Data Network

DATA

Bathymetric survey datasets

BATHYMETRY

Understanding the topography of the European seas

The screenshot displays the EMODnet BATHYMETRY interface. At the top, the EMODnet logo and the text "BATHYMETRY" are visible. Below this, a red box highlights the "CDI Data Discovery and Access Service" link. The main content area is divided into two columns. The left column contains search filters, and the right column displays a list of datasets.

Search by:

- Geographical Box
- Time period
- Measuring area type
 - surface (25235)
 - curve (1838)
 - point (5)
- Parameter categories
 - Gravity, magnetics and bat... (27078)
 - Terrestrial (27078)
 - Administration and dimens... (424)
 - Field geophysics (424)
 - Water column temperature... (15)
- Disciplines
 - Marine geology (27078)
 - Terrestrial (27078)
 - Administration and dimens... (424)
 - Physical oceanography (15)
 - Biological oceanography (10)
- Instrument / gear type
 - single-beam echosounders (13741)

ADD TO BASKET 20 • 100 • 1000 Records **GO** | Found 27078 | Show (1-20) | Previous | Next 20

#	Data set name	Disciplines - Topics	Instrument / gear type	Show
1	Bathymetry near Poti port	Marine geology > Gravity, magnetics and bathymetry Terrestrial > Terrestrial	multi-beam echosounders	
2	Bathymetry of river Chorokhi under water canon	Marine geology > Gravity, magnetics and bathymetry Terrestrial > Terrestrial	multi-beam echosounders	
3	Bathymetry of river Enguri under water canon	Marine geology > Gravity, magnetics and bathymetry Terrestrial > Terrestrial	multi-beam echosounders	
4	D376_PRODQXF_NAV	Administration and dimensions > Administration and dimensions Marine geology > Gravity, magnetics and bathymetry Terrestrial > Terrestrial	single-beam echosounders, Differential Global Positioning System receivers	
5	JC088_PRODQXF_NAV	Administration and dimensions > Administration and dimensions Marine geology > Gravity, magnetics and bathymetry Terrestrial > Terrestrial	single-beam echosounders, Differential Global Positioning System receivers, inertial navigation systems, kinematic Global Positioning System receivers	
6	DY051_PRODQXF_NAV	Administration and dimensions > Administration and dimensions Marine geology > Gravity, magnetics and bathymetry Terrestrial > Terrestrial	multi-beam echosounders, Differential Global Positioning System receivers, inertial navigation systems, kinematic Global Positioning System receivers	



EMODnet



BATHYMETRY

Understanding the topography of the European seas

DATA

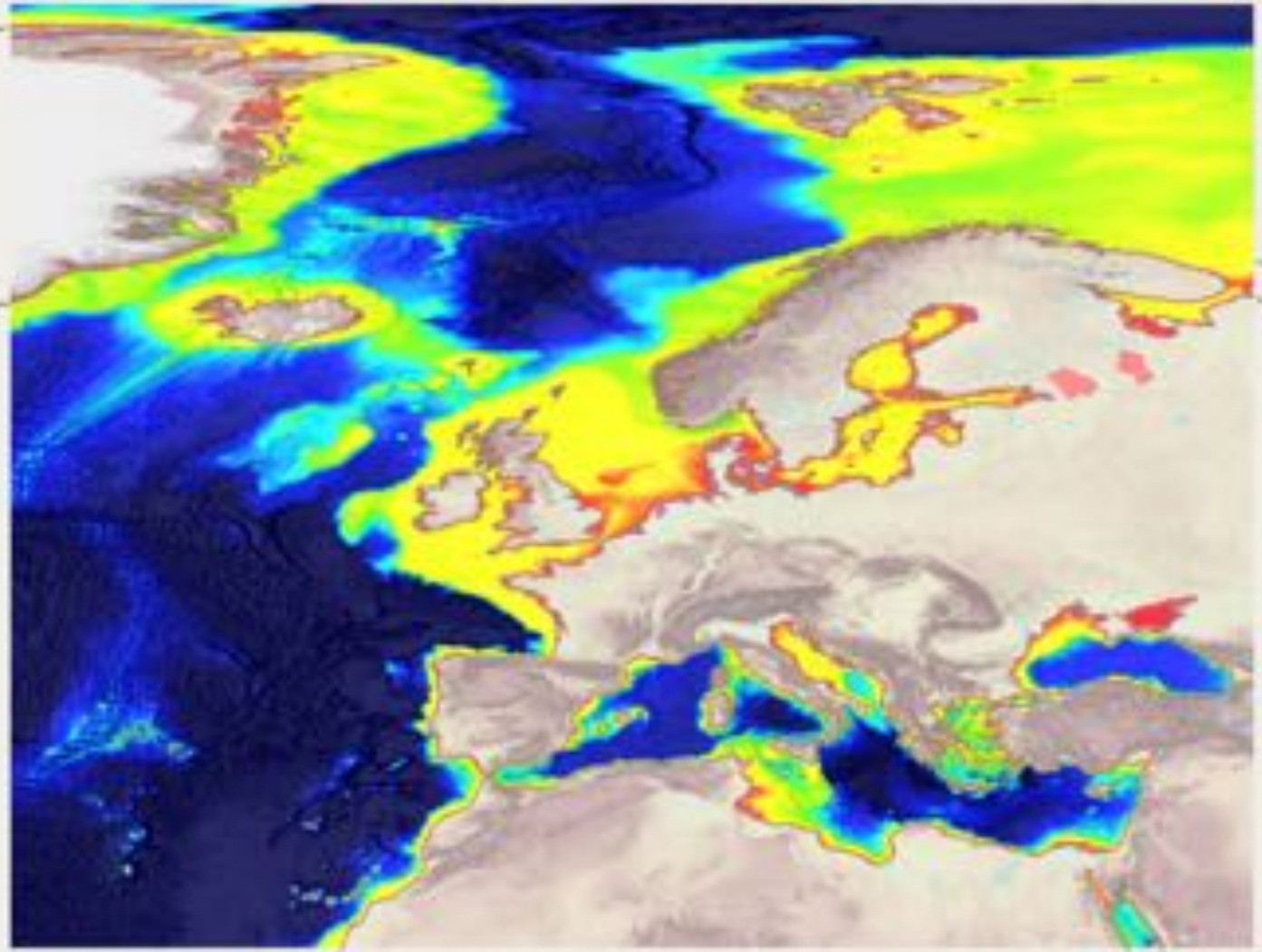
Bathymetric survey datasets

DATA PRODUCTS

Digital Terrain Model (DTM)

- European Sea regions
- 1/8 x 1/8 arc minute

Feedback



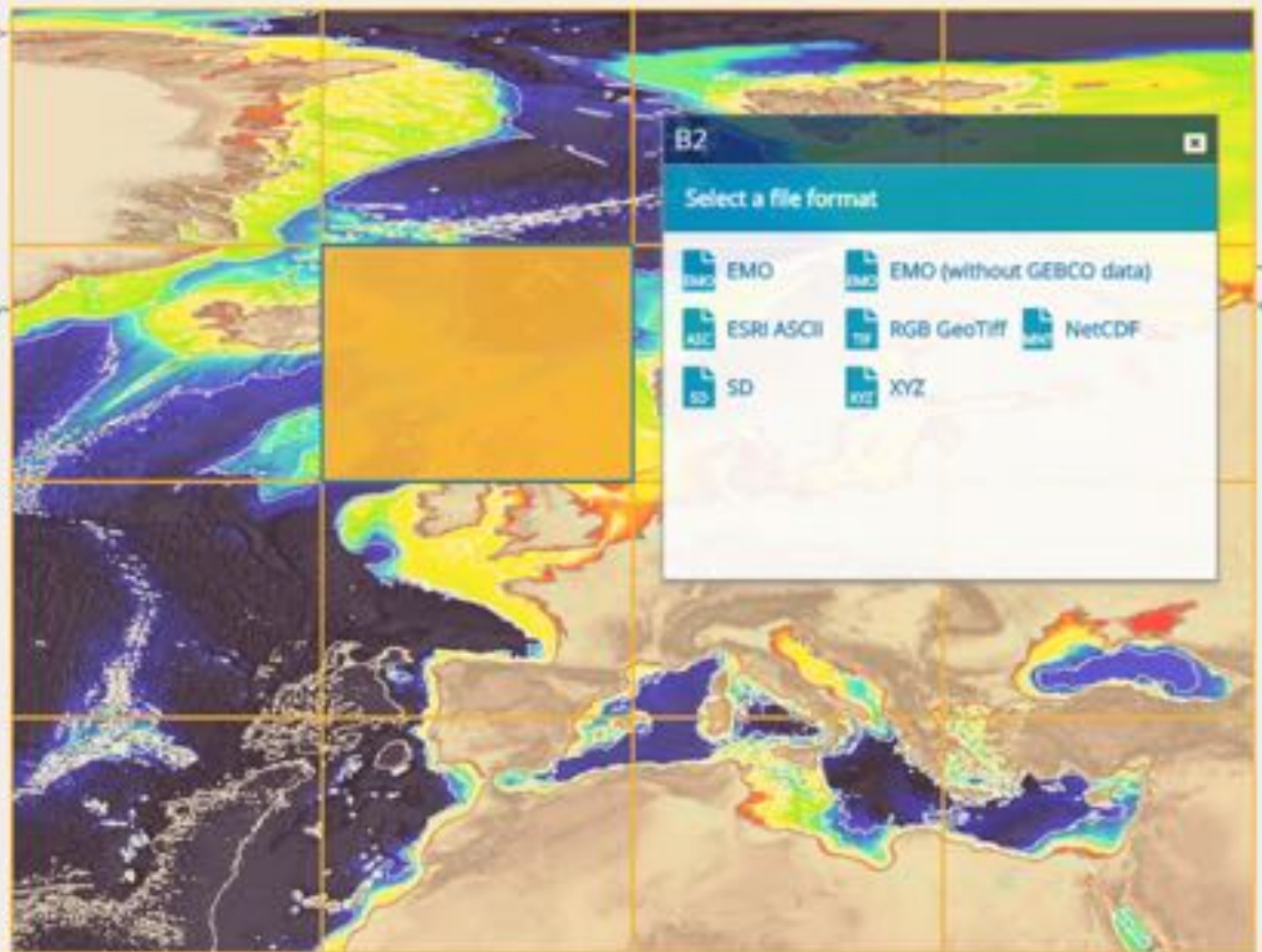


BATHYMETRY

Understanding the topography of the seafloor
Bathymetry Viewing and Download service

Mean depth full coverage ✕ 🗎 Legend 📄 Retrieve depth 📈 Depth profile ⚠️ [Download products](#) 📍 [Download area of interest](#) ➡️ Measure distance

Feedback





EMODnet



BATHYMETRY

Understanding the topography of the European seas

DATA

Bathymetric survey datasets

DATA PRODUCTS

Digital Terrain Model (DTM)

→ European Sea regions
→ 1/8 x 1/8 arc minute

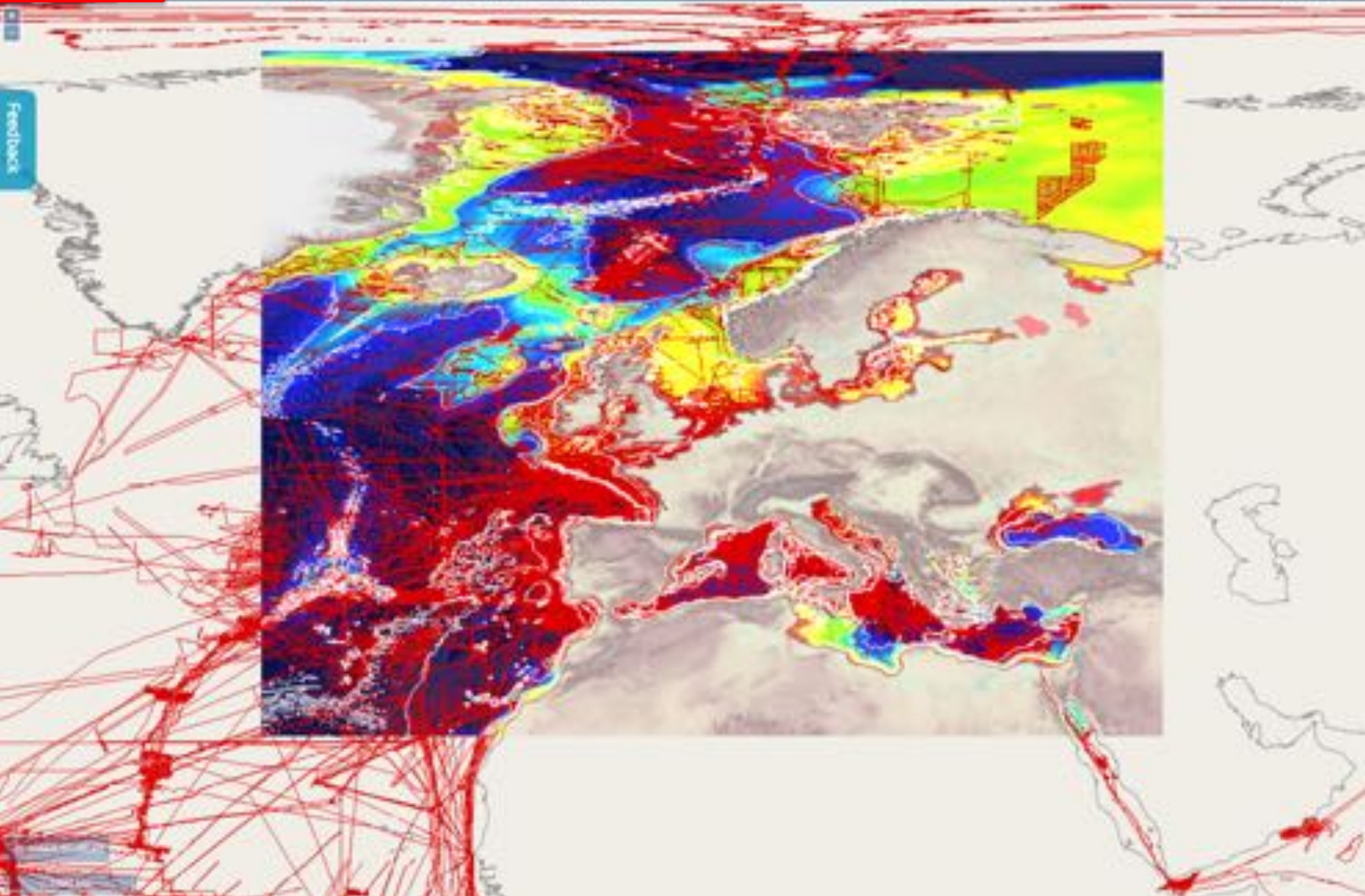
Included:

Depth contours
Source references
Survey tracks/polygons
Coastal areas with high resolution bathymetry
External products (GEBCO Undersea Features, Wrecks)

Survey tracks/polygons

Retrieval metadata Order survey data

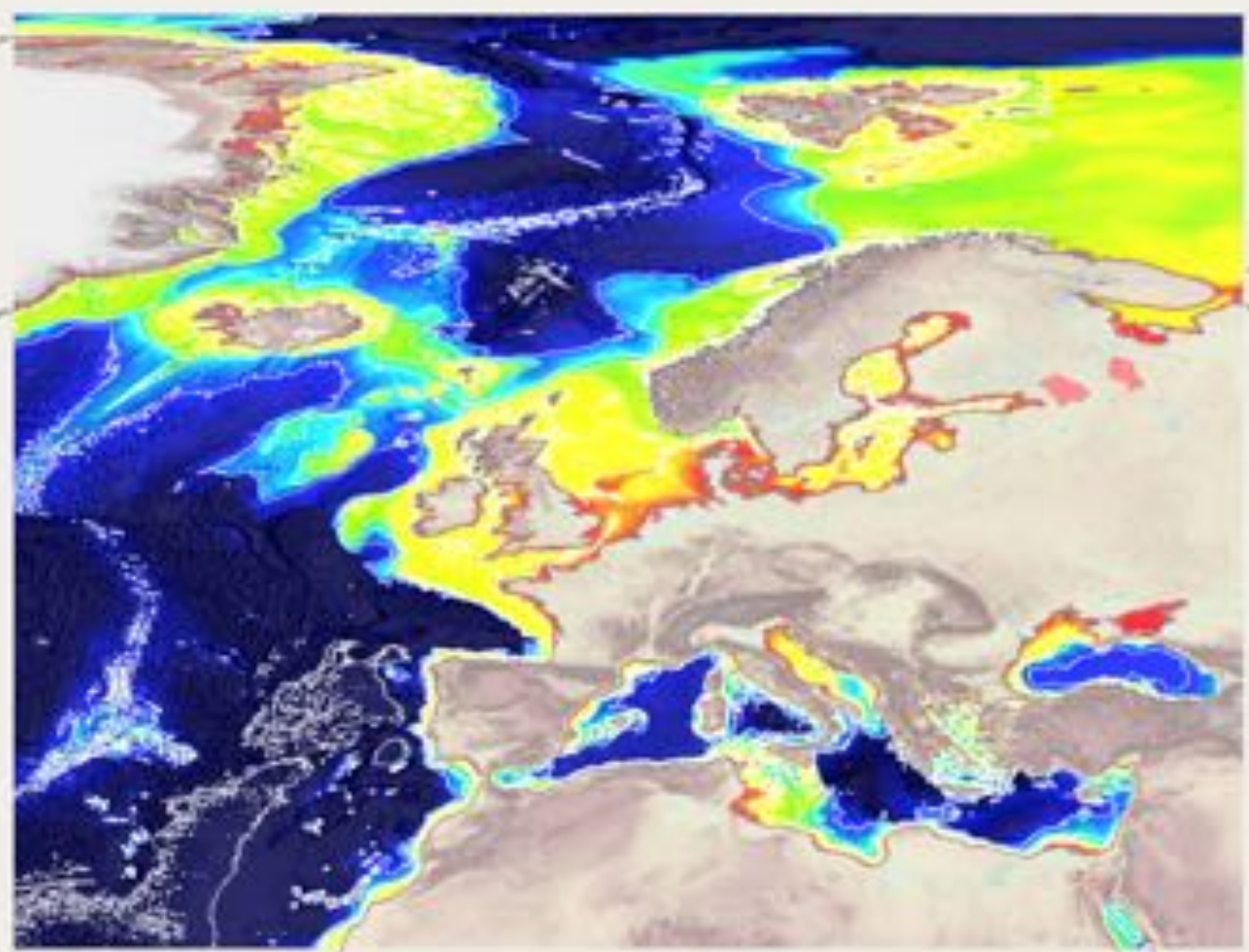
Download products Download area of interest Measure distance Settings



Mean depth full coverage

Legend Retrieve depth Depth profile

Download products Download area of interest Measure distance Settings





EMODnet



BATHYMETRY

Understanding the topography of the European seas

Sextant CATALOGUE

Access to metadata:

 **DTM**

 **Composite DTMs** (= basis for EMODnet DTM)

BATHYMETRY
Understanding the topography of the European seas

Free search [input] [search icon]

CONTACT US SUBMIT DATA

APPROACH METADATA & DATA DATA PRODUCTS NEWS PROMOTION PARTNERS HELPDESK

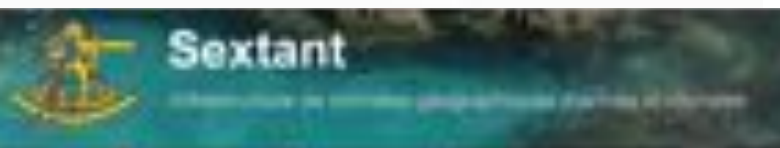
Sextant Catalogue service

Search [input] [search icon]

Results 1 to 20 on 140 (20 by page)

Sort by: Popularity +

- Baltic Sea Bathymetry Database**
The Baltic Sea Bathymetry Database (BSBD) gathers and distributes water depth data (bathymetry) for the area of the Baltic Sea countries. Measuring bathymetry is mostly a national duty for each country, primarily because the production of nautical charts is...
- 574_EMODNET REGIONAL DTM OF NETHERLANDS CONTINENTAL SHELF**
DTM compiled for inclusion into the EMODnet hydrography dataset. Original data was received from Netherlands Hydrographic Service at a source resolution of approximately 125 meters. An area north of the northern deep water routes on the Dutch continental shelf was not part of the...
- 145_DTM_CNR-ISMAR-22_Adriatic_singlebeam**
Bathymetry of the Adriatic Sea compiled by CNR-ISMAR for the Italian side of the Adriatic Sea to illustrate the main geological features of the Western Adriatic Basin using a single beam echosounder.
- 486_Bathymetry_Bay of Biscay - Channel (DTM resolution ; 1000m ; ed. ; 2008)**
The Digital Terrain Model of the Bay of Biscay and of the Channel is the result of the processing of a compilation of single and multibeam echosounder data, of DTMs and of chart contours produced before 2008 for hydrodynamic modeling.
- 353_291002-Catalan Margin**
Composite DTM of Catalan margin at approximately 250m of resolution
- 543_EMODNET REGIONAL DTM FOR NORWAY AREA OF INTEREST**
DTM data source was created by using contour lines and spot soundings from Norwegian Electronic Navigational Charts...





EMODnet



European Marine
Observation and
Data Network


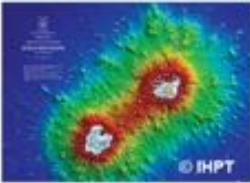
BATHYMETRY

Understanding the topography of the European seas

WEB SERVICES

Layers also available as OWS services

The screenshot shows the EMODnet Bathymetry website. At the top, there is a header with the EMODnet logo, the title 'BATHYMETRY', and the tagline 'Understanding the topography of the European seas'. A search bar and links for 'CONTACT US' and 'SUBMIT DATA' are also present. Below the header is a dark blue navigation bar with the following menu items: 'APPROACH', 'METADATA & DATA', 'DATA PRODUCTS', 'NEWS', 'PROMOTION', 'PARTNERS', and 'HELPDESK'. The main content area features a sidebar on the left with a list of links: 'Home', 'Getting started with services and standards', 'Bathymetry Viewing and Downloading Service' (highlighted with a red circle and arrow), 'QA/QC and DTM production details', 'Web services and standards', 'Which sea regions?', 'Which information layers?', 'How can I contribute?', 'Disclaimer', and 'Acknowledgement in publications'. The main content area is titled 'Web services and standards' and contains the following text: 'The GIS layers in the Bathymetry Viewing and Download service can be shared as OGC WMS and WCS services with other EMODnet portals and beyond. Also WMS layers from other EMODnet portals and external services can be added to the Bathymetry Viewer and Download service. The OGC services can be found at the following URLs: WMS: <http://ows.emodnet-bathymetry.eu/wms>, WFS: <http://ows.emodnet-bathymetry.eu/wfs>, WMTS: <http://ows.emodnet-bathymetry.eu/wmts>, WCS: <http://ows.emodnet-bathymetry.eu/wcs>. More detailed information on these webservices can be found at the [following page](#). EMODnet Bathymetry has adopted standards for the marine domain that have been developed and are maintained by SeaDataNet. Also several partners in the project are SeaDataNet partners. SeaDataNet has relations with, follows and contributes to international standards committees such as the Open Geospatial Consortium (OGC), international Organisation for Standardisation (ISO) and the World Wide Web Consortium (W3C). And it has an active cooperation and tuning with the INSPIRE community, in particular the INSPIRE team of JRC. The INSPIRE Directive 2007/2/EC aims at establishing an infrastructure for Spatial Information in the European Community which is supported through legislation and technical guidelines, such as concerning data models (schemas), metadata and network services.





EMODnet



EMODnet gives access to a range of data archives across 7 themes



BATHYMETRY



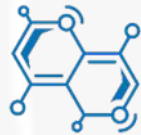
GEOLOGY



SEABED HABITATS



PHYSICS



CHEMISTRY



BIOLOGY



HUMAN ACTIVITIES

EMODnet Geology

Welcome to the EMODnet Geology Portal - one of several EMODnet portals aiming to strengthen blue growth in Europe.

To get started, either browse through the list of available data products or have a look at the map.

Marine research is truly multidisciplinary as evidenced by e.g. the EMODnet I, II, and III projects that have been running since 2009. EMODnet Geology has succeeded in bringing together harmonised offshore data including sea-floor geology, seabed substrates, rates of coastline migration, geological events and probabilities and mineral resources.

Now in its third phase, EMODnet Geology Portal consolidates the existing data products with higher resolution and more contents. New services are being built, so users can investigate and search for borehole data, seismic survey data, and multibeam survey data using interactive maps and tools.

We encourage you to [contact us](#), should you have ideas for further improvements or would like to share, how you benefit from our products and services.

Best wishes

The EMODnet Geology Team





EMODnet



GEOLOGY

Discover Europe's seabed geology

MAPS showing information on

- ① **Coastal behavior:** coastal erosion, accretion or stability
- ① The location and type of **geological events and probabilities** (e.g. volcanoes, landslides, origin of tsunamis, ...)
- ① The location of **mineral occurrences**
- ① The **rates of sediment accumulation**

MAPS showing DATA PRODUCTS

- ① **Seabed substrate**
- ① **Seafloor geology**



- Seabed Substrates
- Seabed substrates 1:1M
- Seabed substrates 1:250k**
- Seabed substrates 1:100k
- Sediment accumulation rate cm/year
- Sea floor (bedrock)
- Coastal Behaviour
- Geological Event and probabilities (200k)
- Mineral Occurrences
- Lab
- Other Panels
- Base layers
- Search EGDI metadata catalogue
- Add your own data (VMS)

Seabed substrates 1:250k

Folk 5-class Classification

- 1. Mud to muddy Sand
- 2. Sand
- 3. Coarse substrate
- 4. Mixed sediment
- 5. Rock & Boulders
- 6. No data at this level of Folk
- 7. Restricted data

Seabed substrates 1:250k

Folk 5-class Classification

- 1. Mud to muddy Sand
- 2. Sand
- 3. Coarse substrate
- 4. Mixed sediment
- 5. Rock & Boulders
- 6. No data at this level of Folk

New tab | New window





Selected Substrate

Sea floor (bedrock)

Lithology



Age

Event environment

Event process

Cosetal Behaviour

Geological Events and probabilities (20%)

Stratigraphic Occurrences

Lab

Other Profiles

Data layers

Search EODI metadata catalogue

Add your own data (BIM)

- acidic igneous rock
- amphibolite
- andesite
- anorthosite
- apite
- arenite
- ash tuff, lapillstone, and lapilli tuff
- basalt
- basic igneous rock
- calcareous carbonate sediment
- calcareous carbonate sedimentary material
- calcareous carbonate sedimentary rock
- carbonate mudstone
- carbonate rich mudstone
- carbonate sediment
- carbonate sedimentary rock
- carbonate wackestone
- chert
- clastic sediment
- clastic sedimentary material
- clastic sedimentary rock
- clay
- chertstone
- compound material
- conglomerate
- tuff
- tuffite
- basaltic rock
- basalt
- basaltite
- fine grained igneous rock
- gabbro
- gabbroic rock
- gneiss
- granite
- granitoid
- granulite
- gravel size sediment
- gneiss or andesite
- igneous material
- igneous rock
- impure calcareous carbonate sediment
- impure carbonate sedimentary rock
- impure limestone
- intermediate composition igneous rock
- limestone
- metamorphic rock
- mica schist
- migmatite
- microgranite
- monzonite
- mud





- Swabed Substrate
- Sea-floor (bedrock)
- Coastal Behaviour
- Coastal migration**
 - no information on evolution
 - erosion (coastline retrogradation)
 - accretion (coastline progradation)
 - stable (imperceptible change)
- Coastal migration index
- Geological Event and probabilities (250k)
- Mineral Occurrences
- Lib
- Other Portals
- Base layers
- Search EGDI metadata catalogue
- Add your own data (WMS)

Zoom North



Data products

Find below, data products from EMODnet Geology.

If you would like to search through our metadata catalogue, please visit our [service page](#).

Seabed Substrate map 1:100k

[WMS Example](#)[Download \(free\)](#)[Show on map](#)

Seabed substrate map of the European marine areas including (e.g. the Baltic Sea, the Greater North Sea, the Celtic Sea, the Iberian Coast, and the Mediterranean Sea within EU waters) at 1:100 000 scale (100k). The map is collated and harmonized from seabed substrate information within the EMODnet-Geology III project.

Where necessary, the existing seabed substrate classifications (of individual maps) have been translated to a scheme that is supported by EUNIS. This EMODnet reclassification scheme includes at least five seabed substrate classes. Four substrate classes are defined on the basis of the modified Folk triangle (mud to sandy mud; sand; coarse sediment; and mixed sediment) and one additional substrate class (rock and boulders) was included by the project team. If the original seabed substrate dataset has enabled more detailed substrate classification, classifications with 7 and 16 substrate classes might be available.





EMODnet



GEOLOGY

Discover Europe's seabed geology

WEB SERVICES

All maps are also available as OWS services

Product Catalogue

Access to the metadata of all maps

Services

In the current phase of the project (EMODnet Phase III) services will be created for accessing data products via OGC standard web services:

- WMS (Web Map Service)
- WFS (Web Feature Service)
- CSW (Catalogue Service)

Currently, we have the following services under development. Feel free to try them out:

- CSW: <http://drive.emodnet-geology.eu/geonetwork/srv/eng/csw>
- WMS: <http://drive.emodnet-geology.eu/geoserver/EMODnetGeology/wms>
- WFS: <http://drive.emodnet-geology.eu/geoserver/EMODnetGeology/wfs>

Data products can also be found using the **EGDI metadata database** hosted by Czech Geological Survey):

Home
Search
Found
Map Viewer
Help
Contact

Search > Found (79)
Found: 79

Sort by: Title Ascending

Alps Model	Metadata Contact... Date Stamp: 2018-05-10
AcrUST-09	Metadata Contact... Date Stamp: 2018-05-10
BARENTS50	Metadata Contact... Date Stamp: 2018-05-10
CRUST20	Metadata Contact... Date Stamp: 2018-05-10
density	Metadata Contact... Date Stamp: 2018-05-10
density	Metadata Contact... Date Stamp: 2018-05-10
density	Metadata Contact... Date Stamp: 2018-05-10



EMODnet



EMODnet gives access to a range of data archives across 7 themes



BATHYMETRY



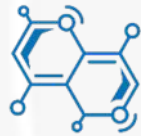
GEOLOGY



SEABED HABITATS



PHYSICS



CHEMISTRY



BIOLOGY



HUMAN ACTIVITIES



About Us

The EMODnet Seabed Habitats website provides a permanent single portal for accessing seabed habitat data in Europe. This includes the EMODnet broad-scale seabed habitat map for Europe (AKA EUSeaMap) and habitat maps from surveys across Europe.

[More about EMODnet Seabed Habitats](#)

Let's talk

[Launch Map Viewer](#)[Download data](#)[Web Services](#)[Search metadata](#)

About Us

The EMODnet Seabed Habitats website provides a permanent single portal for accessing seabed habitat data in Europe. This includes the EMODnet broad-scale seabed habitat map for Europe (AKA EUSeaMap) and habitat maps from surveys across Europe.

[More about EMODnet Seabed Habitats](#)

Let's talk



EMODnet



European Marine
Observation and
Data Network

SEABED HABITATS

Unlocking seabed habitat data in Europe

MAPS showing a collection of

- ① **Point data from surveys**
- ① Datasets on OSPAR Habitats, and habitats in the Habitats Directive (**Composite data products**)

MAPS showing DATA PRODUCTS (models)

- ① **Individual habitat maps from surveys**
- ① **Modelled maps of specific habitats**
- ① **EUSeaMap** (broad-scale habitat map – EUNIS and MSFD classifications)

Welcome | Map Layers | Key

Refresh Map

EMODnet Broad scale seabed habitat map for Europe (EMODnet)

- EODS Full-detail habitat classification
- EODS Broad scale habitat classification
- IODS Broad scale habitat types

Classified habitat descriptors

- Environmental variables that influence habitat type
- Individual habitat maps from surveys
- Modelled maps of specific habitats
- Composite data products
- Survey sample points
- Boundaries





SEARED HABITATS

Home | About | Search | **Seared Habitats** | Contact Us | Help

Search results for: **Seared Habitats**

1. Seared Habitats

2. Seared Habitats

3. Seared Habitats

4. Seared Habitats

5. Seared Habitats

6. Seared Habitats

7. Seared Habitats

8. Seared Habitats

9. Seared Habitats

10. Seared Habitats



Get started

Search over 1000 data sets, services and maps, ...



International Council for the Exploration of the Sea (ICES) Data Portal

Here you will find data, services and maps and more

Browse by topics



Oceans
418



Environment
118



Biodiversity
120



Geoscientific inform.
109



Boundaries
5

Browse resources



Dataset
629



Historical
63



Service
26

Latest news

Most popular

Ile de Groix habitat map
Dataset



EUSeaMap2 (2016) Broad-Scale
Predictive Habitat Map -
Confidence
Dataset



EUSeaMap2 (2016) Broad-Scale
Predictive Habitat Map - MSFD
Benthic Broad Habitat Types
Dataset



EUSeaMap2 (2016) Broad-Scale
Predictive Habitat Map
Dataset

Impulsive noise events registry
(Underwater Noise)
Dataset

ICES Database of Trawl Survey
Data (getindices)
Service



EMODnet



European Marine
Observation and
Data Network

SEABED HABITATS

Unlocking seabed habitat data in Europe

WEB SERVICES

Allow user to access all layers through other applications (e.g. ArcGIS)

The screenshot shows the EMODnet Seabed Habitats website interface. At the top, there is a navigation bar with the EMODnet logo, the title 'SEABED HABITATS', the tagline 'Unlocking seabed habitat data in Europe', a search box, and links for 'CONTACT US' and 'SUBMIT DATA'. Below the navigation bar is a dark blue menu with links: 'Home', 'Access data', 'Contribute data', 'Resources', 'News', 'About', 'Help & feedback', 'Terms of Use', and 'Central Portal'. The main content area has a left sidebar with links: 'Launch Map Viewer', 'Download data', 'Web Services' (highlighted), and 'Search metadata'. The main heading is 'EMODnet Seabed Habitats Web Services'. The text explains that map data is viewable in desktop GIS applications via Web Map Service (WMS). It provides a WMS address: <http://52.49.27.224/geoserver/ows?>. It also mentions that Web Feature Service (WFS) for vector data and Web Coverage Service (WCS) for raster data are available. A link to the GitHub page is provided for more information. The section 'Application guidance' includes instructions for connecting to a WMS in QGIS, ArcMap, and MapInfo.

Home / Access data / Web Services

EMODnet Seabed Habitats Web Services

The map data that is viewable on our [map viewer](#) is also viewable in your desktop GIS application via our [Web Map Service \(WMS\)](#).

If you would like to use/display this map on your desktop GIS application or on another mapping portal, you can use this WMS address (copy and paste the address into your application)

<http://52.49.27.224/geoserver/ows?>

For access to true data, a [Web Feature Service \(WFS\)](#) for vector data, and [Web Coverage Service \(WCS\)](#) for raster data are also available via the above link.

For more information on the EMODnet Seabed Habitats web services, please visit our [Github page](#).

Application guidance

For information on how to connect to a WMS in QGIS, visit [Adding WMS Layers on the Harvard University QGIS 2.0 workshop](#).

For information on how to connect to a WMS in ArcMap, visit [Adding WMS services on the ArcGIS Resource Center](#).

For information on how to connect to a WMS in MapInfo, visit [Adding a WMS Server in MapInfo Professional in the MapInfo reference pages](#).



EMODnet



European Marine
Observation and
Data Network

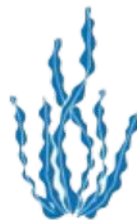
EMODnet gives access to a range of data archives across 7 themes



BATHYMETRY



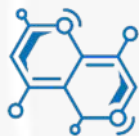
GEOLOGY



SEABED HABITATS



PHYSICS



CHEMISTRY



BIOLOGY



HUMAN ACTIVITIES



The EMODnet Chemistry portal provides easy access to marine chemical data, standardised harmonized validated data collections and reliable data products, highly relevant to assess ecosystem status according to the Marine Strategy Framework Directive.



Discover Data



Discover Data Products

Latest news and events

12 June 2018

EMODnet Day - Italia: Marine data for the industry and the private sector towards sustainable development - Photos and Presentations are available

4 April 2018

Minutes from the second MSFD Board online workshop on contaminants now available

2 April 2018

EMBLAS provided data on marine litter to EMODnet Chemistry



EMODnet



CHEMISTRY

Data and products on marine water quality

DATA and DATA PRODUCTS on chemical substances related to

- ⦿ Eutrophication
- ⦿ Contamination
- ⦿ Marine litter

EMODnet CHEMISTRY
CDI Data Discovery and Access Service - Quick search

Dataset(s) 0 Proceed to basket Reset basket Timeseries on Export Store query Summary Show map Help

Reset all steps

Search by:

- Geographical Box
- Time period
- Measuring area type
 - point (959163)
 - curve (1974)
 - surface (49)
- Matrix categories
 - water body (921035)
 - sediment (41574)
 - biota (13017)
- Groups of variables** (highlighted in red)
 - Dissolved gasses (627505)
 - Fertilisers (451827)
 - Silicates (333842)
 - Chlorophyll (266903)
 - Acidic (159264)
 - More ▶
- Measurement and dimensions
 - Salinity of the water column (633692)
 - Dissolved oxygen paramet... (627504)
 - Temperature of the water ... (623797)
 - Phosphate concentration p... (424987)
 - Nitrate concentration para... (336271)

ADD TO BASKET 20 100 1000 Records GO | Found 961186 | Show (1-20) | Previous | Next 20

Data set name	Disciplines - Topics	Instrument / gear type	Show
HeavyMedSed20120801 H7	Administration and dimensions → Administration and dimensions Chemical oceanography → Carbon, nitrogen and phosphorus → Metal and metalloid concentrations → Other inorganic chemical measurements Environment → Pollution Human activities → Pollution Marine geology → Rock and sediment chemistry → Sediment pore water chemistry Terrestrial → Rock and sediment chemistry	discrete water samplers	Show
HeavyMedSed20120801 H41	Administration and dimensions → Administration and dimensions Chemical oceanography → Carbon, nitrogen and phosphorus → Metal and metalloid concentrations → Other inorganic chemical measurements Environment → Pollution Human activities → Pollution Marine geology → Rock and sediment chemistry → Sediment pore water chemistry Terrestrial → Rock and sediment chemistry	discrete water samplers	Show
HeavyMedSed20120801 H40	Administration and dimensions → Administration and dimensions	discrete water samplers	Show

HORIZONTAL SECTION VERTICAL SECTION

CONTACT ABOUT HELP

SELECT DATA PRODUCTS

Search

+ Add external layers

EMODNET CHEMISTRY - CONCENTRATION MAPS BY SEA REGION

- > Atlantic Sea
- > Baltic Sea
- > Black Sea
- > Mediterranean Sea
- > North Sea

EMODNET CHEMISTRY - CONCENTRATION MAPS BY PARAMETER

- Water body ammonium
 - Water body ammonium masked using relative error threshold 0.5
- > Water body chlorophyll-a
- > Water body dissolved oxygen concentration
- > Water body phosphate
- > Water body silicate

EMODNET CHEMISTRY - PLOTS

- Acidity
 - Number of observations of Water body total alkalinity
 - Number of observations of Water body dissolved inorganic carbon
 - Number of observations of Water body pH
- > Antifoulants
- > Chlorophyll
- > Dissolved gases
- > Fertilisers
- > Hydrocarbons
- > Heavy metals
- > Organic matter
- > Polychlorinated biphenyls

Number of observations
of Water body pH

min depth (m)

0

max depth (m)

10000

min time (YYYY-MM-DD)

1993-01-01T00:00:00Z

max time (YYYY-MM-DD)

2018-06-22T00:00:00Z





EMODnet



European Marine
Observation and
Data Network

CHEMISTRY

Data and products on marine water quality

Sextant CATALOGUE

Access to metadata of the
Chemistry products

WEB SERVICES

Viewing and using data
products in other software
programs

The screenshot shows the EMODnet Chemistry website. The header includes the EMODnet logo, the title 'CHEMISTRY', the tagline 'Data & products on marine water quality', a search bar, and links for 'CONTACT US' and 'SUBMIT DATA'. The navigation menu includes 'ABOUT', 'DATA', 'PRODUCTS', 'DOCUMENTS', 'NEWS & EVENTS', and 'HELP'. The main content area features a grid of hexagonal icons representing different topics: OCEAN ACIDIFICATION, EUTROPHICATION, CONTAMINANTS, and MARINE LITTER. Below this is a breadcrumb trail: 'Home > Products > Web Services'. A sidebar on the left lists various links, with 'Web Services' highlighted. The main content area is titled 'Web Services' and lists several services:

- Data product Viewing and Downloading service
 - GetCapabilities
 - GetMap
 - GetFeatureInfo
- Dynamic Timeseries visualizations and requests for graphs
 - Getting parameters
 - Get locations
 - Plot time series of certain location
- CDI Data Discovery and Access service

Below the list, there is a section for 'Data product Viewing and Downloading service' which explains that the analysed field generated by DIVA (Data-Interpolating Variational Analysis) can be visualised using the WMS protocol. It lists the following requests: 'GetCapabilities' and 'GetMap'. The 'GetCapabilities' section explains that this request is used to provide all layers of the map server and provides an example URL: `http://ec.oceanbrowser.net/emodnet/Python/web/wms?request=GetCapabilities&service=WMS&version=1.3.0`. The 'GetMap' section explains that this request allows to extract a horizontal section of the 4D NetCDF file at the specified depth.

Quick Question? Speak to us here!

Online



EMODnet



European Marine
Observation and
Data Network

EMODnet gives access to a range of data archives across 7 themes



BATHYMETRY



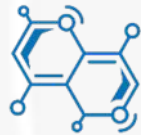
GEOLOGY



SEABED HABITATS



PHYSICS



CHEMISTRY



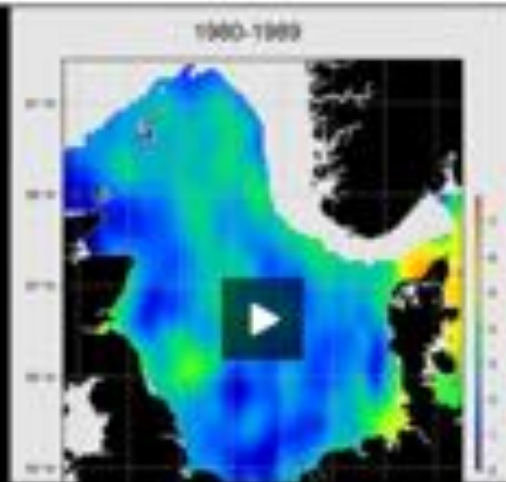
BIOLOGY



HUMAN ACTIVITIES

Unlocking European Marine Biodiversity Data

The EMODnet biology data portal provides free access to data on temporal and spatial distribution of marine species and species traits from all European regional seas. EMODnet Biology is part of the EU funded European Marine Observation and Data Network and is built upon the World Register of Marine Species and the European Ocean Biogeographic Information System.



Gridded abundance map of cod (*Gadus morhua*) using geospatial modelling. An animation of this data product shows the temporal evolution of cod abundances, illustrating the dramatic decrease of the stock in the North Sea

Major EurOBIS and EMODnet Biology update



Thanks to a huge effort of the EMODnet biology consortium, 39 new and updated datasets representing more than six million distribution records are made available as open marine biodiversity data.

General Meeting coming up



Next EMODnet Biology general meeting to take place in Trieste, 3-4 May 2018

[\[more news\]](#)



EMODnet



BIOLOGY

Dive into data on Europe's marine life

DATA on

- ① Species occurrences of different functional groups: benthos, zooplankton, phytoplankton, fish, reptiles, marine mammals, algae, birds, angiosperms
- ① Biotic measurements of the species occurrences
- ① Abiotic parameters
- ① Information on sampling methodology

Search **Active layers** All Layers

Google Satellite
 ICES Baltic International Trawl Survey for commercial fish species





records/grid

- ≤ 1
- ≤ 10
- ≤ 100
- ≤ 1000
- > 1000

Lat: 64.96 Lon: 77.98



Taxa(1) **Datasets(6)** Layers(3)

Dataset Name	RecordCount	RecordCount QC	View
Gridded abundance maps of commercial fish species from the North Sea			
ICES Baltic International Trawl Survey for commercial fish species	768,851	768,264	  



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European Marine
Observation and
Data Network

BIOLOGY

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- Biotic measurements of the species occurrences
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- Information on sampling methodology

EMODnet | **BIOLOGY**
Dive into data on Europe's marine life

Home Data Catalogue Data Download Map Viewer Data Products Project Contribute Help-desk

Occurrence Data - Explore Tutorial

- Select Datasources (optional)
- Select the geographical area (optional)
- Select the time period (optional)

Selection Criteria

- Datasources
- Spatial
- Temporal

Approx. records: 30 000 000

Next >

Actions

Upload Selection



EMODnet



BIOLOGY

Dive into data on Europe's marine life

DATA on

- ① Species occurrences of different functional groups: benthos, zooplankton, phytoplankton, fish, reptiles, marine mammals, algae, birds, angiosperms
- ① Biotic measurements of the species occurrences
- ① Abiotic parameters
- ① Information on sampling methodology

DATA PRODUCTS on

- ① Species gridded abundance of different functional groups: benthos, zooplankton, phytoplankton, fish, reptiles, marine mammals, algae, birds, angiosperms
- ① ICES Operational Oceanographic Products and Services (OOPS) – zooplankton abundance data (Copepods)

Data Catalog

IMIS Photogallery search results

Found 43 images that match your search term 'IMIS dataset ID: 5438'

1 2 Next >



Calanus finmarchicus



Calanus
helgolandicus



Calanus finmarchicus
autumn



Calanus finmarchicus
spring



Calanus finmarchicus
summer



Calanus finmarchicus
winter



Calanus
helgolandicus autumn



Calanus
helgolandicus spring



Calanus
helgolandicus summer



Calanus
helgolandicus winter





EMODnet



BIOLOGY

Dive into data on Europe's marine life

CATALOGUE

Metadata of datasets

WEB SERVICES



EMODnet Biology API

The EMODnet Biology data are available as Web Services:

1. Occurrence data (species observations) as Web Feature Service (WFS)

- All biological occurrence data from EMODnet biology data is available through EuroBIS. The different attributes of these occurrences on which you can select can be retrieved here:
http://geo.vliz.be/geoserver/Dataportal/ows?service=wfs&version=2.0.0&request=DescribeFeatureType&typeName=Dataportal_eurobis&outputFormat=application/json
- For example you can retrieve occurrence data from dataset 'Monitoring of birds in the Voordelta' (4569):
geo.vliz.be/geoserver/Dataportal/ows?service=WFS&version=1.0.0&request=GetFeature&typeName=Dataportal_eurobis&viewParams=where:datasetid=4659&maxFeatures=50&outputFormat=csv
- For example you can retrieve occurrence data from dataset 'Birds from the Voordelta' (4569) where taxon is 'Larus argentatus' (Herring gull) 137138
geo.vliz.be/geoserver/Dataportal/ows?service=WFS&version=1.0.0&request=GetFeature&typeName=Dataportal_eurobis&viewParams=where:datasetid=4659 AND aphiaidaccepted=137138&outputFormat=csv
- Retrieve occurrence data from 'Larus argentatus' (Herring gull) 137138 (1 million records)
geo.vliz.be/geoserver/Dataportal/ows?service=WFS&version=1.0.0&request=GetFeature&typeName=Dataportal_eurobis&viewParams=where:aphiaidaccepted=137138&outputFormat=csv
- Retrieve occurrence data from 'Abra alba' (White furrow shell) 141433 and retrieve the occurrences from 'Ensis ensis' (Common razor shell) 140733
geo.vliz.be/geoserver/Dataportal/ows?service=WFS&version=1.0.0&request=GetFeature&typeName=Dataportal_eurobis&viewParams=where:aphiaidaccepted=141433 OR aphiaidaccepted=140733&outputFormat=csv

2. Additional measurements, linked to the occurrence data as Web Feature Service (WFS)

- All additional measurements (Biotic Quantifications, Biota Descriptors, Rock and sediment physical properties, Water column temperature and salinity, Rock and sediment chemistry...) are available in the Measurement of Fact (MoF) Extension of EuroBIS (the MoF is linked with the Occurrence data through both 'dataportal_eurobis' and 'occurrenceid'). The different attributes of these MoFon which you can select can be retrieved here:
http://geo.vliz.be/geoserver/Dataportal/ows?service=wfs&version=2.0.0&request=DescribeFeatureType&typeName=Dataportal_eurobis_measurementoffacts&outputFormat=application/json



EMODnet



European Marine
Observation and
Data Network

EMODnet gives access to a range of data archives across 7 themes



BATHYMETRY



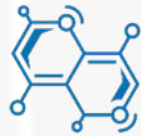
GEOLOGY



SEABED HABITATS



PHYSICS



CHEMISTRY



BIOLOGY



HUMAN ACTIVITIES

[View Data](#)[Search Data](#)

View GIS data using the map viewer

The map viewer displays human activities GIS data collated so far for three sea regions in Europe.

[VIEW](#)

Free access to GIS data and web services

Search and access EMODnet Human Activities metadata, download GIS files and link to web services.

[SEARCH](#)

Check what data is available by entering in the box above the data you are interested in.

WELCOME TO THE EMODNET HUMAN ACTIVITIES PORTAL

The EMODnet Human Activities portal is being developed in the framework of the European Marine Observation and Data Network (EMODnet) as initiated by the European Commission. It aims to facilitate access to existing marine data on activities carried out in EU waters, by building a single entry point for geographic information on 14 different themes. [Read more.](#)



EMODnet



HUMAN ACTIVITIES

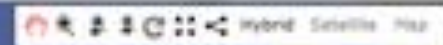
Making use of our oceans

DATA on

- Aggregate extraction
- Aquaculture
- Cables
- Cultural heritage
- Dredging sites
- Environment
- Fisheries
- Hydrocarbon extraction
- Traffic in main ports
- Ocean energy facilities
- Other forms of area management/designation
- Pipelines
- Waste disposal
- Wind farms



Layers



Aggregate Extraction

Aquaculture

Fish Production

Shellfish Production

Freshwater Production

Cables

Cultural Heritage

Dredging

Environment

Fisheries

- Expired
- Expired in use
- Inactive
- N/A
- Notice
- Renewal
- Revised

N.B. absence of data in a particular area does not mean there are no data. This may be due to an error. We're working on it.



< Search Again

Finfish Production

This facility provides free access to GIS data on European finfish production. View the finfish production data on an interactive map of Europe and search finfish production sites and locations. Alternatively, download Esri compatible GIS files (Geodatabase or Shapefiles). Datasets are also available via OGC compliant web feature service (WFS) or web map services (WMS). The metadata featured here can be downloaded as XML.

[View Data](#) | [Download Data](#) | [Download MetaData](#) | [WFS Link](#) | [WMS Link](#)

EMODnet Human Activities: Finfish farming sites

- [Resource Identification Information](#)
- [Data Quality Information](#)
- [Distribution Information](#)
- [Metadata Information](#)

Resource Identification Information

ABSTRACT

The dataset provides information about the location of seawater finfish farms in the EU and partner countries where data are available. There is an obligation for MS to inventory all authorized aquaculture sites under the Council Directive 2006/88/EC on animal health requirements. Despite this obligation, the availability of data varies significantly among MS from no data available at all to a complete regularly updated dataset (e.g. in Scotland). Most MS with only a marginal finfish production are not able to provide a list with the geolocation of farms. In the main producer countries, there is usually a public list of authorized farms with geolocation data and sometimes information on the species. Data is provided here for Cyprus, Denmark, Greece, Ireland, Finland, Norway, Spain and the UK. There are no sea-based finfish farms in Belgium, Bulgaria, Latvia, Lithuania, the Netherlands and Poland. Data are still missing in other EU MS. In the last version from June 28 2017, data for Norway was added and the layer was updated with new attributes. Main species have been listed as Yes/No/NA attributes (Arctic Char, Cod, Halibut, Lumpfish, Meagre, Salmon, Seabass, Sea loach, Trout, Tuna, Turbot, Walleye, Whiting and Other Species) and the detailed original description of species has been added in a separate attribute. Information on Production Stage (Grow out for Human consumption, Hatchery, Nursery, Reproduction, Breed stock, Other) has been added for Greece, Norway and partially for Spain. Information on purpose (Commercial, Research, Education, Display) has been added for Norway. Status (Active, Application, Expired, Expired in Use, Inactive, Notice, Renewal, Renewal) is provided for Ireland, Norway (only active farms) and the UK. Point information indicates if the data points correspond to the data provided by the Source ("Original") or if they have been estimated by the Emodnet team when Polygons were provided ("Polygon-centred", in Ireland only).

CITATION

EMODnet Data Ingestion

WAKE UP YOUR DATA

Set them free for Blue Society

The **Data Ingestion Portal** facilitates submitting marine datasets for further processing, Open Data publishing and contributing to applications for society.

emodnet-ingestion.eu



Please kindly evaluate your performance of the ...

Before taking the test

Group name

Country (with region)

Organization type / field
(e.g. Academia / Finance)

Subject

(e.g. if subject is more than one ecology)

Is this the first time thematic data portfolio?

If this is not the first did you already make a

Discovering data
How many times did you use?

Yes
No
Very much

How often did you use?

Very often
Often
Sometimes
Rarely
Never

Following data
How many times did you use?

Yes
No
Very much

How often did you use?

Very often
Often
Sometimes
Rarely
Never

Questionnaire (Without thematic portfolio)

How do you evaluate the challenges with the data?

	How do you evaluate the challenges with the data?
Conceptual	
Methodological	
Organizational	
Technical	
Physical	
Conceptual	
Methodological	

Questionnaire (Without thematic portfolio)

	Do you experience any difficulties finding data?	Do you experience any difficulties accessing data?	Do you experience any difficulties processing data?
Conceptual			
Methodological			
Organizational			
Technical			
Physical			
Conceptual			
Methodological			

<https://imdis.seadatanet.org/>



IMDIS 2018 - Barcelona, 5-7 November
International Conference on Marine Data and Information Systems

HOME CONFERENCE INFORMATION SUBMISSION REGISTRATION PRACTICAL INFORMATION PROGRAMME

Latest News



Abstract Submission
Registration Info



Registration
Registration Info



Place
Registration Info



Our website

Home
Conference information
Submission
Registration
Practical information
Programme

Tools

Home
Contact

Partners





@EMODnet

www.emodnet.eu

Your gateway to marine data in Europe

patrick.gorringe@smhi.se

<https://www.youtube.com/watch?v=p3vwngxyXuo>



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Your gateway to marine data in Europe



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www.emodnet.eu

Your gateway to marine data in Europe



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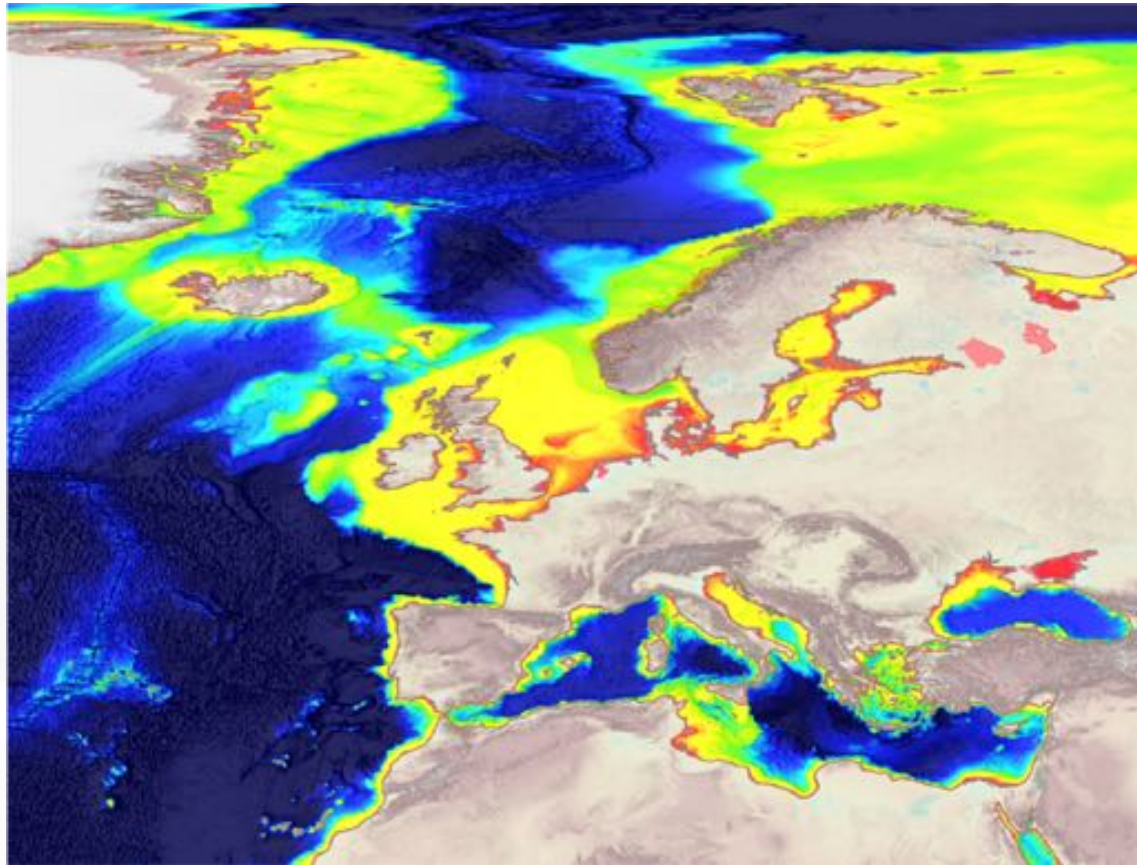
BATHYMETRY

Understanding the topography of the European seas

DATA PRODUCTS

Digital Terrain Model (DTM)

- European sea regions
- 1/8 x 1/8 arc minute





EMODnet



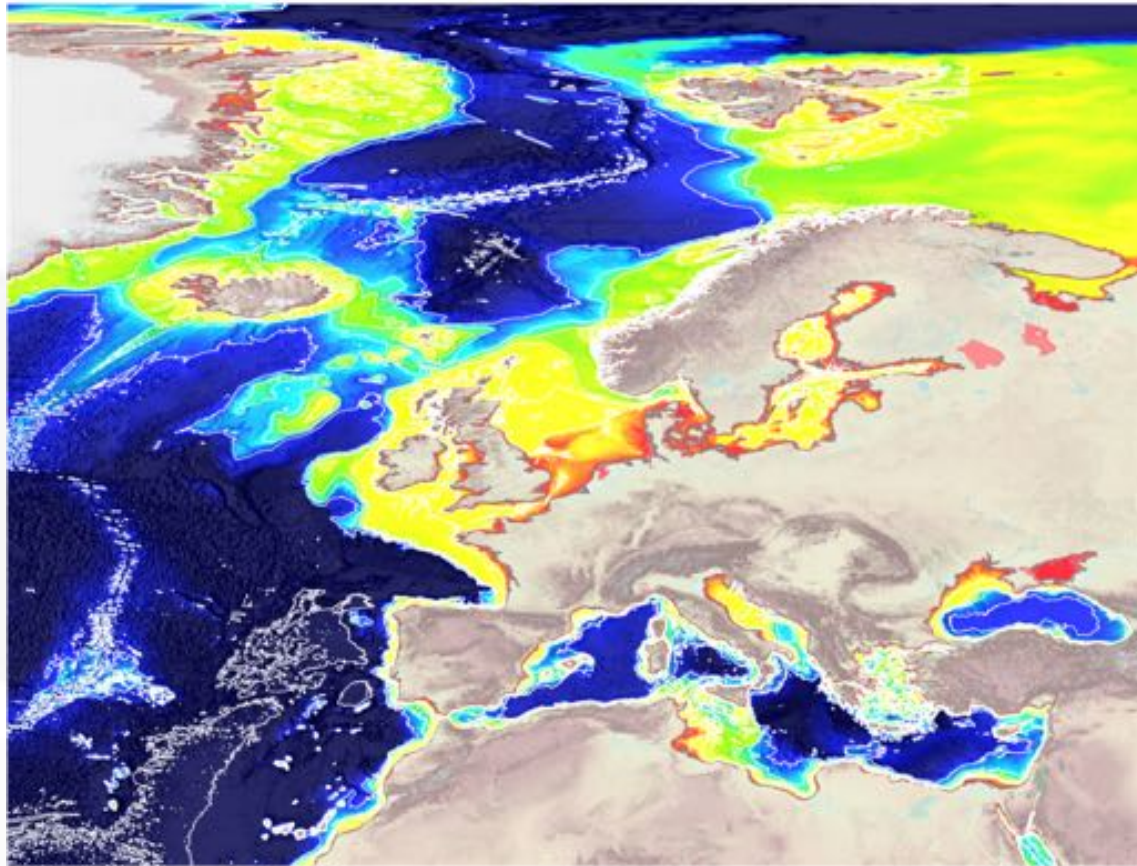
BATHYMETRY

Understanding the topography of the European seas

DATA PRODUCTS

Digital Terrain Model (DTM)

Depth contours



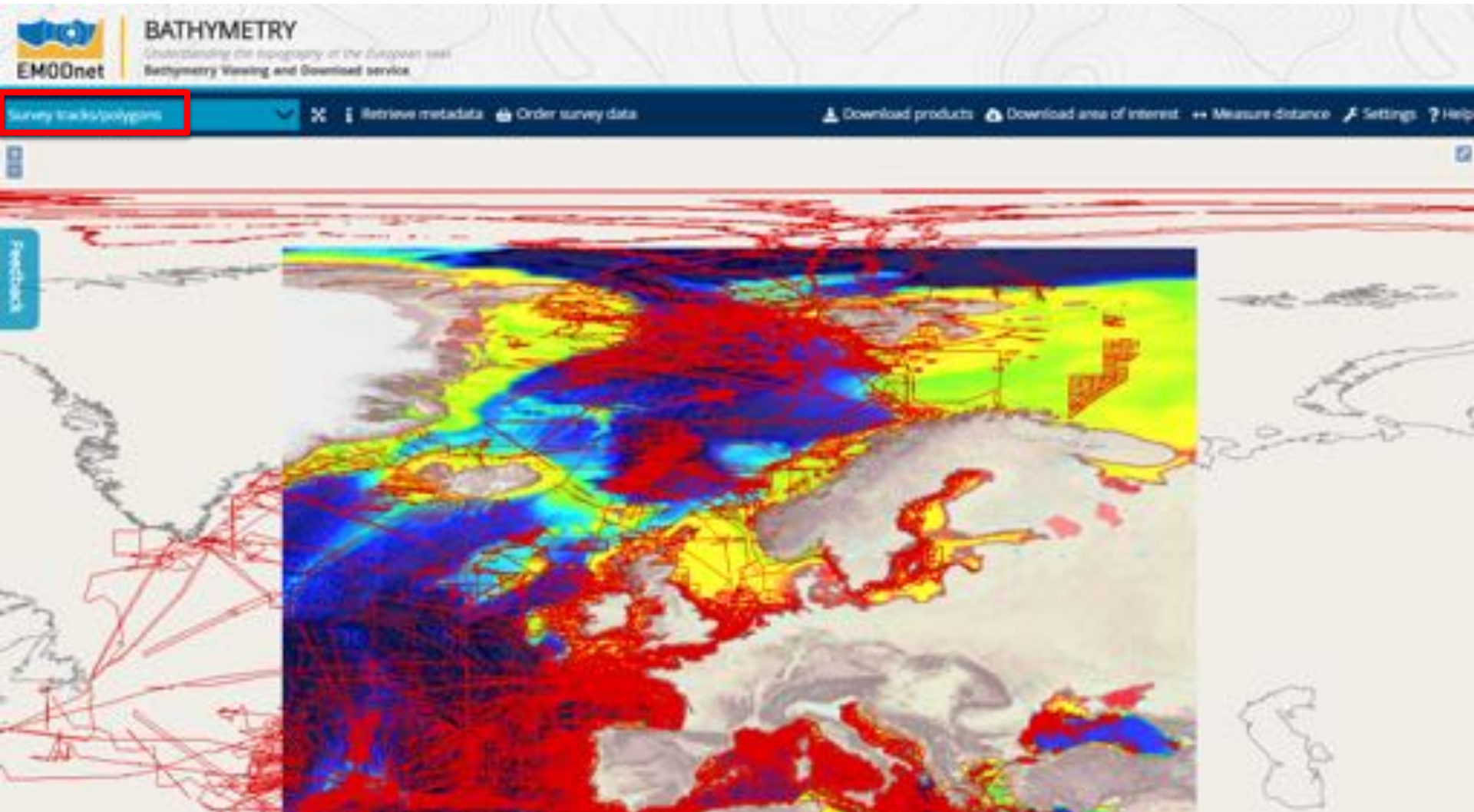


EMODnet



BATHYMETRY

Understanding the topography of the European seas



EMODnet Geology

Powered by



- Seabed Substrate
- Sea-floor (bedrock)
- Coastal Behaviour
- Geological Event and probabilities (250k)
- Mineral Occurrences
- Lab
- Other Portals

- Base layers
- Search EGD mineral data catalogue
- Add your own data (RMS)

Go to location...

Zoom North



Show them one by one

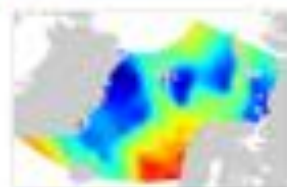
Home page > **Products**

Catalogue

In Europe, different groups are contributing to high quality ocean physics data products or services for EMODnet Physics. They are developed, operated and made available by the research or the environment monitoring communities. EMODnet Physics federates access to both CEMMS and SeaDataNet products.

<<<For more Products check on the Sextant Catalogue >>>

Arctic Ocean - Temperature and Salinity Climatology V1.1



Climatology done from the SeaDataNet aggregated dataset v1.1 for the North Arctic Ocean. The version used for the DSVK software is the 4.6.10 (previously 4.6.11). The period covers 1900-2010. For data access please register at <http://www.marine-rl.org>

Source: SeaDataNet

[extended description](#)

[view product](#)

Arctic Ocean - Temperature and salinity observation collection V1.1



SeaDataNet Temperature and Salinity historical data collection, including revised quality flags after quality control with ODV. For data access please register at <http://www.marine-rl.org>. The dataset format is ODV binary collections. You can read, analyse and export from the ODV application provided by Alfred Wegener Institute at <http://fvkz.awi.de/>

Source: SeaDataNet

[extended description](#)

[view product](#)



- [GetCapabilities](#) all active platforms
- [GetCapabilities](#) platforms of type: mooring
- [GetCapabilities](#) platforms of type: ferrybox
- [GetCapabilities](#) platforms of type: HF radar
- [GetCapabilities](#) platforms of type: glider
- [GetCapabilities](#) platforms of type: argo
- [GetCapabilities](#) platforms of type: drifting buoy
- [GetCapabilities](#) platforms of type: profiler
- [GetCapabilities](#) platforms of type: other
- [GetCapabilities](#) Waves parameters
- [GetCapabilities](#) Water Temperature parameters
- [GetCapabilities](#) Water salinity parameters
- [GetCapabilities](#) Currents parameters
- [GetCapabilities](#) Optical Properties parameters
- [GetCapabilities](#) Sea Level parameters
- [GetCapabilities](#) Atmospheric parameters
- [GetCapabilities](#) Water conductivity/ Biogeochemical parameters
- [GetCapabilities](#) Winds parameters
- [GetCapabilities](#) River parameters
- [GetCapabilities](#) Under water noise parameters



[Reset all steps](#)

Search by:

Geographical Box 

Time period 

Measuring area type

point (959163)

curve (1974)

surface (49)

Matrix categories

water body (921035)

sediment (41574)

biota (13017)

Groups of variables

Dissolved gasses (627505)

Fertilisers (451827)

Silicates (333842)

Chlorophyll (266903)

Acidity (159264)

[More ▶](#)


Discovery parameters

Salinity of the water column (633692)

Dissolved oxygen paramet... (627504)

 **ADD TO BASKET** [20](#) [100](#) [1000](#) Records [GO](#)

| Found 96186 | [Show \(1-20\)](#) | [Previous](#) | [Next 20](#)

<input type="checkbox"/>	<input type="checkbox"/> # Data set name ↓	Disciplines - Topics	Instrument / gear type ↓	Show 
<input type="checkbox"/>	HeavyMedSed20120801 H7	Administration and dimensions > Administration and dimensions Chemical oceanography > Carbon, nitrogen and phosphorus > Metal and metalloid concentrations > Other inorganic chemical measurements Environment > Pollution Human activities > Pollution Marine geology > Rock and sediment chemistry > Sediment pore water chemistry Terrestrial > Rock and sediment chemistry	discrete water samplers	
<input type="checkbox"/>	HeavyMedSed20120801 H41	Administration and dimensions > Administration and dimensions Chemical oceanography > Carbon, nitrogen and phosphorus > Metal and metalloid concentrations > Other inorganic chemical measurements Environment > Pollution Human activities > Pollution Marine geology > Rock and sediment chemistry > Sediment pore water chemistry	discrete water samplers	

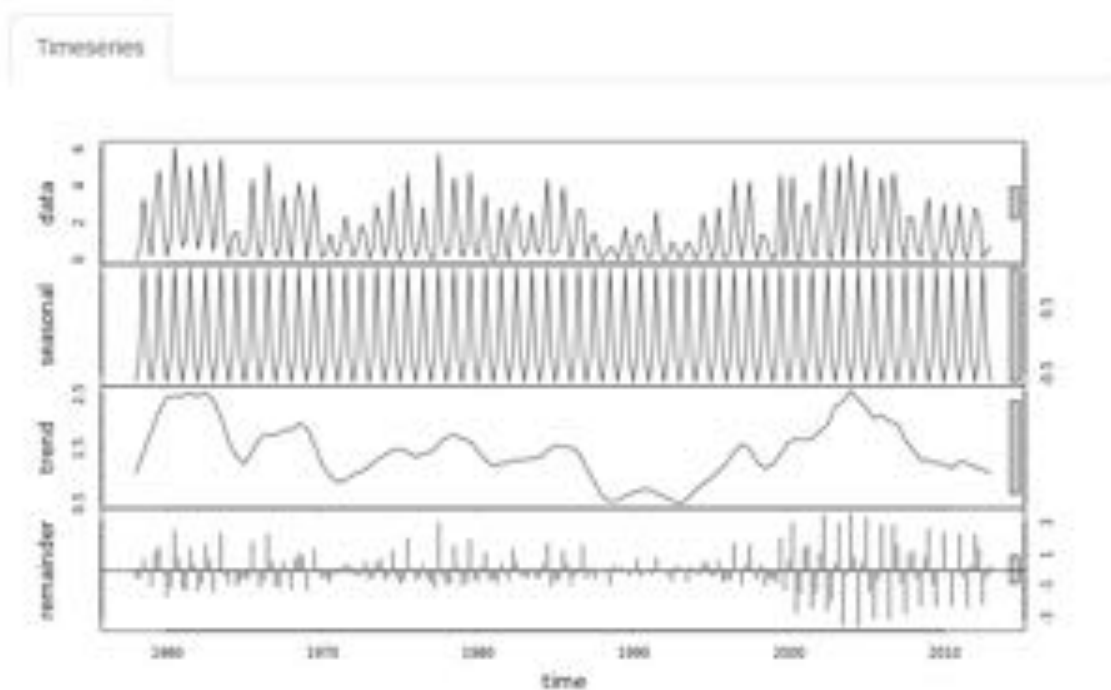
Time series

Atlantic Copepod abundance timeseries

Species

Acartia spp

- Acartia spp
- Calanus finmarchicus
- Calanus helgolandicus
- Metridia lucens
- Temora longicornis
- Oithona spp
- Large copepods
- Large/Small copepod ratio



Baltic zooplankton timeseries

SHARK zooplankton data