




Your gateway to marine data in Europe



Marine knowledge 2020
MARINE DATA AND OBSERVATION FOR SMART AND SUSTAINABLE GROWTH
adopted 8 September 2010

Updates on EMODnet



Jan-Bart Calewaert | Head, EMODnet Secretariat
Janbart.calewaert@emodnet.eu

Meeting with CMEMC, 17 April 2019

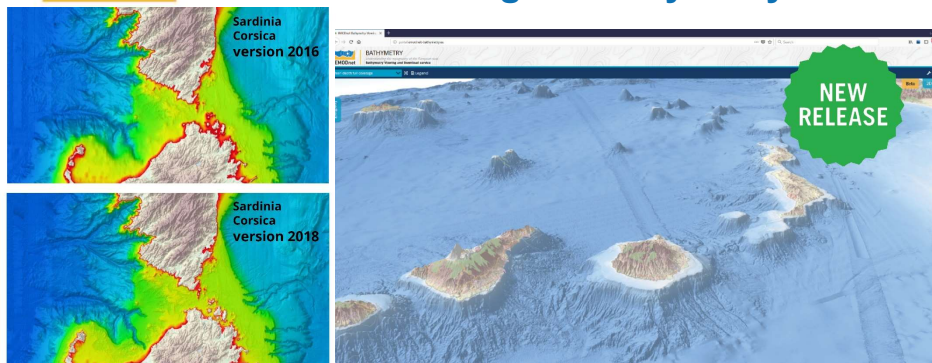
The European Marine Observation and Data Network (EMODnet) is financed by the European Union under Regulation (EU) No 509/2014 of the European Parliament and of the Council of 15 May 2014 on the European Maritime and Fisheries Fund.



New products and main achievements



The EMODnet digital bathymetry



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

- resolution increased to $1/16 * 1/16$ arc minutes (circa 115*115m);
- powerful 3D visualisation functionality;
- faster representation of the complexity of the map;
- expanded coverage: European seas + European part of the Arctic Ocean and Barents Sea;
- inclusion of Satellite Derived Bathymetry data products, in particular for coastal stretches of Spain and Greece.

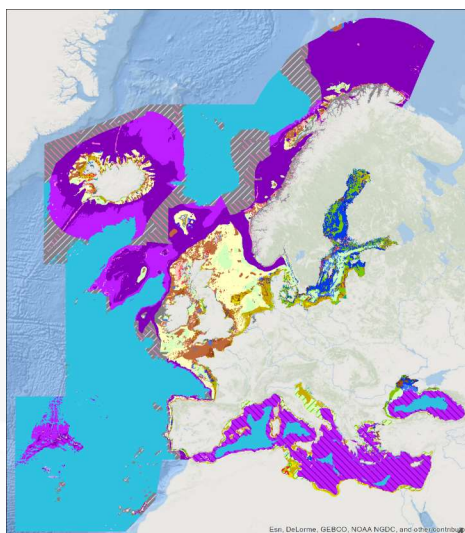
<http://www.emodnet-bathymetry.eu/>




EMODnet
European Marine
Observation and
Data Network

EMODnet Seabed Habitats Broad-scale Map (EUSeaMap)

- Broad-scale European seabed habitat map
- Full coverage of all EU seas
- Time and cost efficient
- Common European language for habitat types
- Spatial confidence assessment available




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




Making EMODnet EUSeaMap

EMODnet
European Marine Observation and Data Network




Substrate
E.g. Sand, Mud, Rock

+




Hydrodynamic Energy
Wave and currents climate at the seabed

+

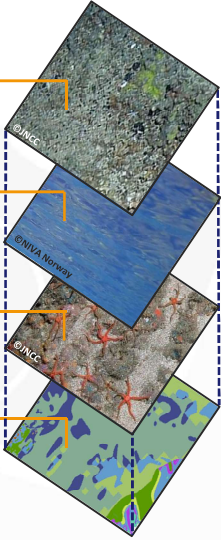


Biological Zone
Infralittoral, circalittoral etc


=



Predictive habitat maps
EUNIS A3.1: Atlantic and Mediterranean High Energy Infralittoral Rock

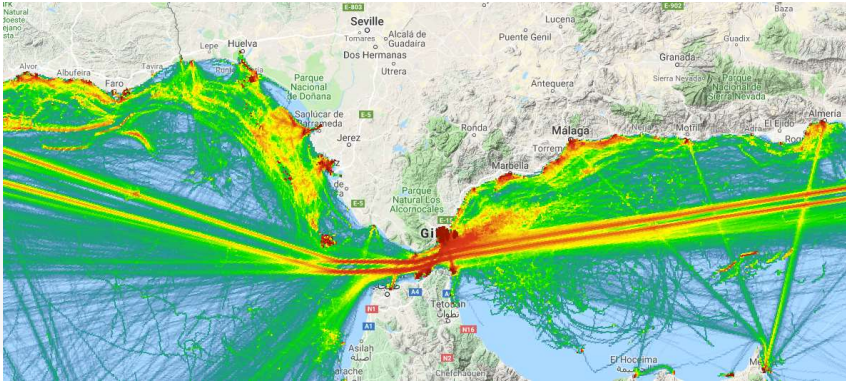


5




The EMODnet Human Activities Vessel Density Maps – released on 11 March

EMODnet
European Marine Observation and Data Network



The map is a grid with 1 square kilometre cells, each with a colour gradient that gives an idea of vessel density.


www.emodnet-humanactivities.eu



New EMODnet Chemistry beach & seabed litter maps – released on 24 March


EMODnet
European Marine Observation and Data Network

- Authorities & the wider society now have a new tool to **help track, map & identify where litter ends up in our seas & on our beaches** and check how it is affecting ocean health.



www.emodnet-chemistry.eu

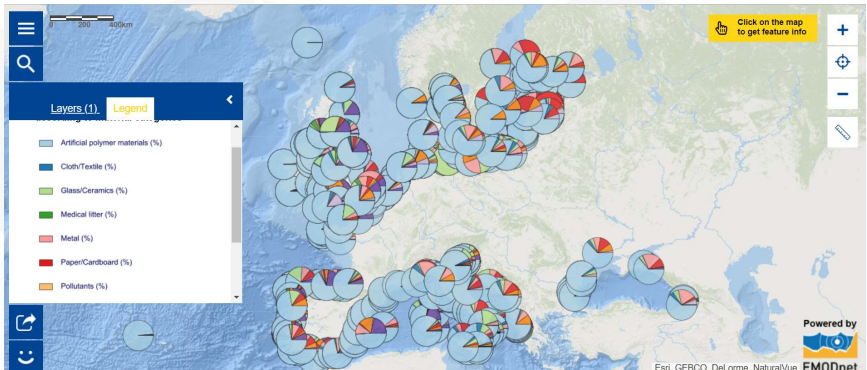
7




The EMODnet beach litter map also on the European Atlas of the Seas

EMODnet
European Marine Observation and Data Network

- Map on the composition of litter according to **11 material categories**, monitored on Europe's coastline **between the years 2012 and 2017**.
- By looking at the map, we can clearly see that **artificial polymer materials are the most frequently found litter type**, representing in most cases more than 50% of the litter found.

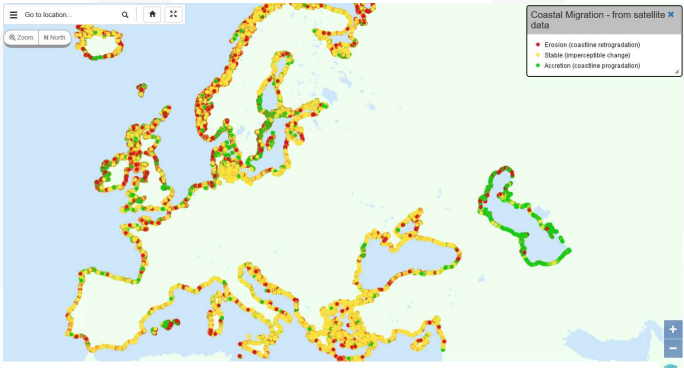





EMODnet
European Marine
Observation and
Data Network

EMODnet Geology pan-European shoreline-migration map – released on 8 April

- The new EMODnet Geology map allows users to visualise pan-European coastal behaviour for **2007-2017** at different spatial scales, using built-in zoom functionality to show areas of landward migration (erosion or submergence), stability, and seaward migration (accretion or emergence).




9




EMODnet
European Marine
Observation and
Data Network

Other EMODnet Geology data products coming soon

- **Multiscale Seabed Substrate Map**
- **Sea-floor Geology**
- **New Mineral data sets**
- **Submerged Landscapes**




10



Data Ingestion Portal

To support all marine data collectors and holders from academia to industry to submit data to EMODnet in an easy way

<https://www.emodnet-ingestion.eu/>



DATA INGESTION PORTAL

Wake up your data - set them free for Blue Society

CONTACT

ABOUT
DATA SUBMISSION
GUIDELINES
SUBMISSIONS
DATA WANTED
HELP
OPERATIONAL DATA
PROMOTION
CENTRAL PORTAL

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


CHECK OUT
THE MOVIE

3:30 MINUTES



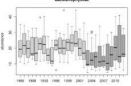


EMODnet Biology and the European Atlas of Marine Life



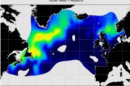
- Launched on 19 December 2018
- Range of demand-led data products including tools, models and maps, illustrating the diverse range of outputs that can be generated from EMODnet Biology hosted data.
- Underpinned by EurOBIS data infrastructure

Search for Data Products



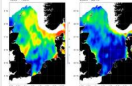
Phytoplankton community analysis in the Northern Adriatic
Source: EMODnet Biology, ODS & Okeanos

Visualize



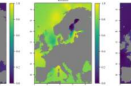
Gridded abundance maps of most common Atlantic Copepod species
Source: EMODnet Biology, VIZ, Ulg And MBEA

Visualize



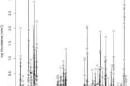
Trends in abundance of fish species in the North Sea
Source: EMODnet Biology, ICES

Visualize




Distribution of macrobenthos living modes in European seas
Source: EMODnet Biology

Visualize



Long term zooplankton time series analysis from the West Med Sea
Source: CNRS, Okeanos

Visualize

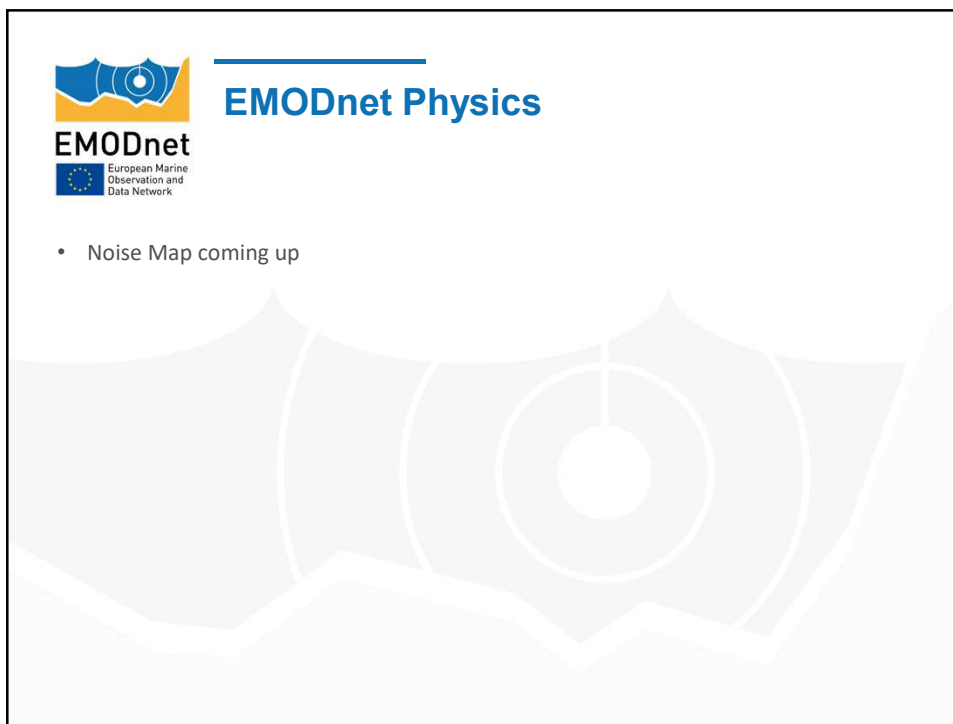


Invasive marine species occurring in European marine harbours
Source: EMODnet Biology

Visualize

www.emodnet-biology.eu/about-atlas

6

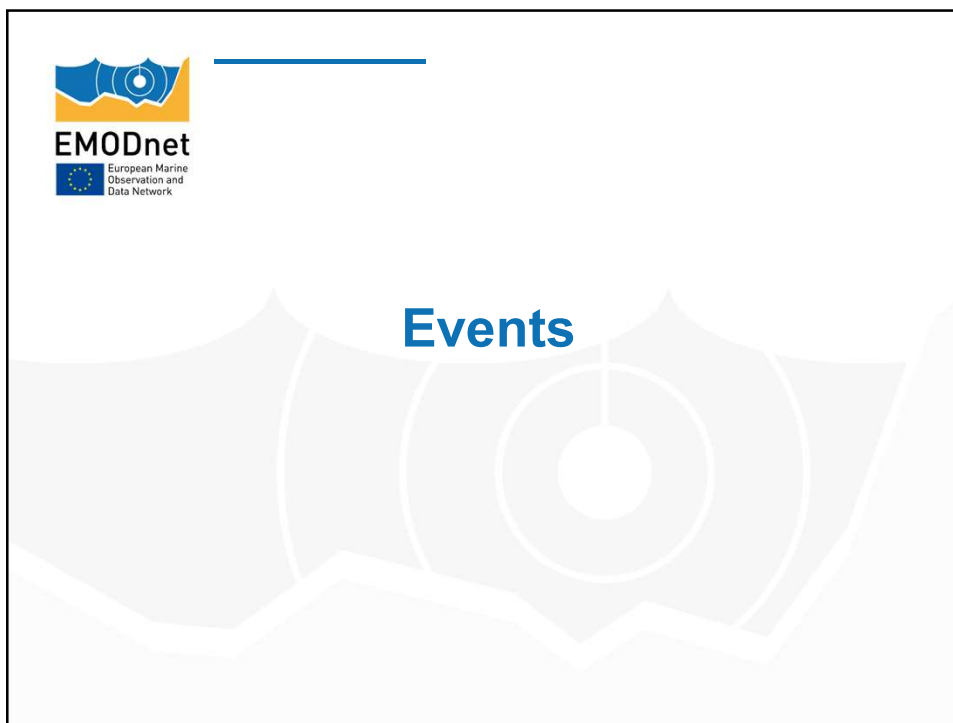


The slide features the EMODnet logo in the top left corner, which includes a stylized blue and orange wave icon and the text "EMODnet European Marine Observation and Data Network". To the right of the logo is a horizontal blue line and the title "EMODnet Physics" in a bold blue font. Below the title, there is a single bullet point: "• Noise Map coming up". The background of the slide is a light gray map of the Mediterranean Sea, with a white circular graphic element in the center.

EMODnet
European Marine
Observation and
Data Network

EMODnet Physics

- Noise Map coming up



The slide features the EMODnet logo in the top left corner, which includes a stylized blue and orange wave icon and the text "EMODnet European Marine Observation and Data Network". To the right of the logo is a horizontal blue line and the title "Events" in a bold blue font. The background of the slide is a light gray map of the Mediterranean Sea, with a white circular graphic element in the center.

EMODnet
European Marine
Observation and
Data Network

Events

 **Main events 2019**

EMODnet
European Marine Observation and Data Network

 **SCIENCE, INNOVATION AND BLUE SOCIETY**
Our engagement with the seas
A MARINE Conference hosted by:
MUSICAL MEDITERRANEA
Ecologie pour Mer, France


 **European Maritime Day**
Lisboa, 16 - 17 May 2019

 **OCEAN OBS'19**
AN OCEAN OF OPPORTUNITY
September 16-20, 2019


 **Seafood Expo GLOBAL**

 **EGU** European Geosciences Union


 **OCEAN DIALOGUES**
AT THE SCIENCE-POLICY-SOCIETY INTERFACE


 **EMODnet Open Sea Lab II Hackathon 4 to 6 September 2019 in collaboration with CMEMS, VLIZ & ICES**

 **EMODnet**
European Marine Observation and Data Network

 **EMODnet OPEN SEA LAB II HACKATHON**
INNOVATION OPEN DATA

15-17 November 2017 De Sirene, Antwerp, Belgium

 5/29/2019

 16

www.opensealab.eu



EMODnet

European Marine
Observation and
Data Network

EMODnet Jamboree – Winter 2020



EMODnet

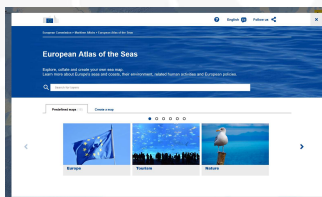
European Marine
Observation and
Data Network

The European Atlas of the Seas



The European Atlas of the Seas – Key facts

- Oct. 2017: transfer to EMODNET Secretariat
- Revamped in June 2018
- 200 marine map layers, by theme
- 18 thematic pre-composed maps + a create / share/ export mode e.g. transport, energy
- 2500 to 5000 visitors/month



The European Atlas of the Seas: data source providers

- ((b)) Open access datasets from diverse providers across Europe.
- ((b)) The contribution of these data providers is crucial for the success of the EAS.
- ((b)) EAS catalogue is automatically updated through Web services provided by the data providers → users have access to **up-to-date information & data!**



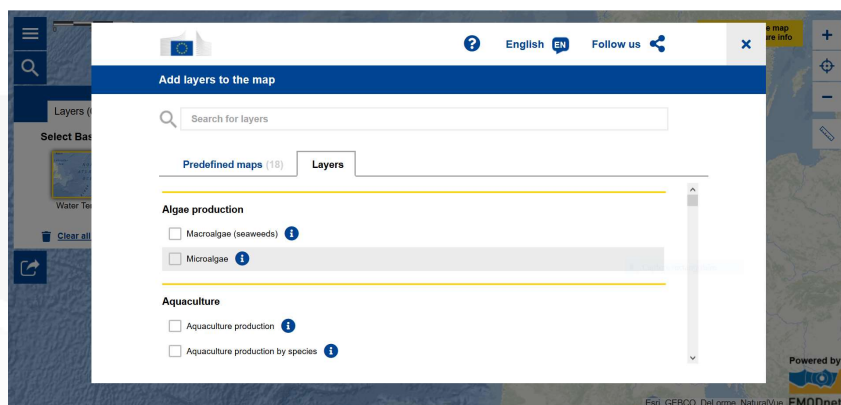


EMODnet

European Marine
Observation and
Data Network

New features and services to users

1/ Search for map layers

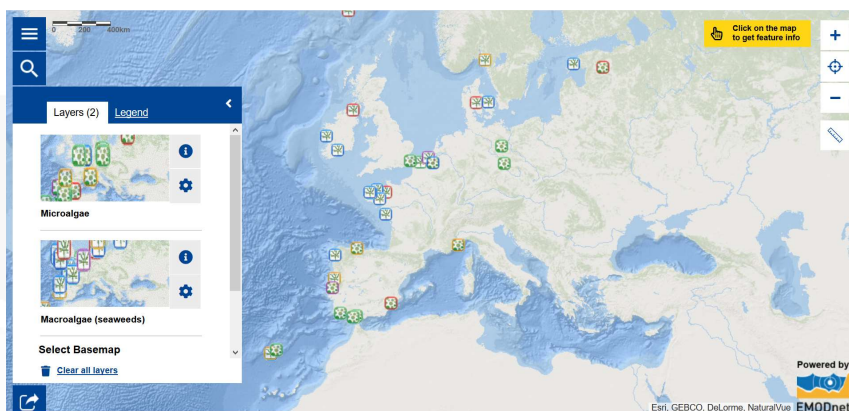


EMODnet

European Marine
Observation and
Data Network

New features and services to users

2/ Create your map





New features and services to users

3/ Share your map

Share this map

Share Export Embed

Copy and paste the link into an email

https://ec.europa.eu/maritimeaffairs/atlas/maritime_atlas/#lang=EN;p=w;bgd COPY

Follow the latest progress and get involved

Twitter

Facebook

Powered by EMODnet



New features and services to users

4/ Print and embed in articles or presentations

Fisheries

- Home
- Policy
 - Managing fisheries
 - Fisheries controls
 - Illegal fishing (IUU)
 - Aquaculture
 - International
 - Bilateral agreements
 - Multilateral agreements
 - Regional
 - Market organisation
 - Black sea
 - Mediterranean sea
 - State aid control
 - European Maritime and Fisheries Fund


Regional fisheries management organisations (RFMOs)

RFMOs are international organisations formed by countries with fishing interests in an area. Some of them manage all the fish stocks found in a specific area, while others focus on particular highly-migratory species, notably tuna, throughout vast geographical areas.

The organisations are open both to countries in the region ("coastal states") and countries with interests in the fisheries concerned. While some RFMOs have a purely advisory role, most have management powers to set catch and fishing effort limits, technical measures, and control obligations. The EU, represented by the Commission, plays an active role in six tuna organisations and 11 non-tuna organisation.

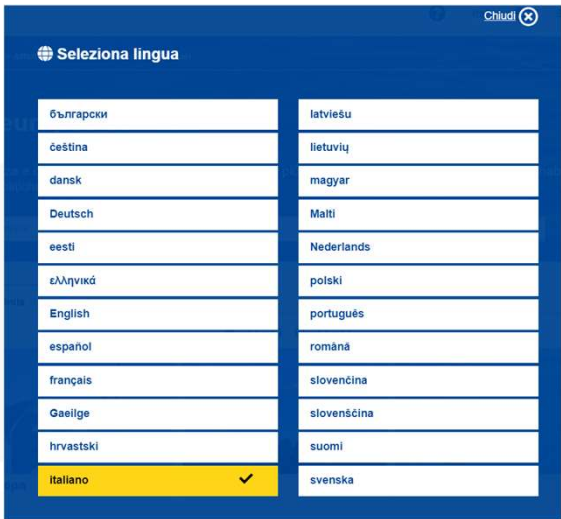
RFMOs which manage highly-migratory species, mainly tuna:

19/06/2018 - NASCO strengthens cooperation to protect endangered salmon stocks




EMODnet
European Marine Observation and Data Network

Available in the 24 official EU languages



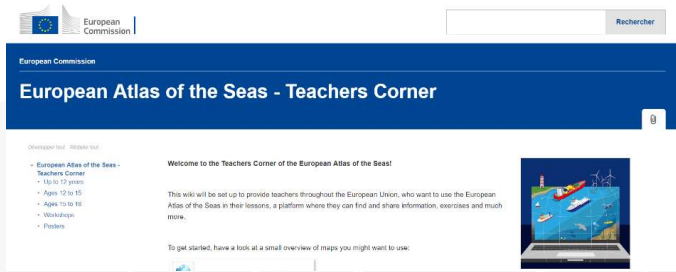
Seleziona lingua

български	latviešu
čeština	lietuvių
dansk	magyar
Deutsch	Malti
eesti	Nederlands
ελληνικά	polski
English	português
español	română
français	slovenčina
Gaeilge	slovenščina
hrvatski	suomi
italiano ✓	svenska



EMODnet
European Marine Observation and Data Network

New Teacher's corner



European Commission

European Commission

Rechercher

European Commission

European Atlas of the Seas - Teachers Corner

Developed by: [EMODnet](#)

- European Atlas of the Seas - Teachers Corner
- 18 to 17 years
- Ages 12 to 15
- Ages 10 to 19
- Workshops
- Posters

Welcome to the Teachers Corner of the European Atlas of the Seas!

This wiki will be set up to provide teachers throughout the European Union, who want to use the European Atlas of the Seas in their lessons, a platform where they can find and share information, exercises and much more.

To get started, have a look at a small overview of maps you might want to use.

With exercises for different age groups based on the use of EAS's maps as well as communication tool specifically designed for teachers & students.




EMODnet
European Marine
Observation and
Data Network

Future plans to expand the educational outreach – Partnership with Nausicaa






NAUSICAA
Centre National de la Mer
Boulogne/Mer



EMODnet
European Marine
Observation and
Data Network

Map of the week on the Maritime Forum




European Atlas of the Seas @EuropeAtlasSeas · 21 Dec 2018
 MAP OF THE WEEK #DidYouKnow that by 2050 there could be more plastic than #fish in our ocean? Our map celebrates the volunteers who took actions this year to protect #ourocean. Click on the map to learn more about #EUBeachCleanup events 📍 emodnet.eu/node/48127 #Readytochange

EU Maritime & Fish, World Cleanup Day, EU Environment and 3 others

17 27

Short stories highlighting an interesting map layer to explore. The EAS promotes a stronger collaboration between policy makers, scientists & citizens (E.g. Map of the week on EU Beach Clean up events).



EMODnet-CMEMS collaboration

EMODnet
European Marine Observation and Data Network

- ④ Collaboration at various levels
 - ④ Technical / operational
 - ④ At Secretariat /Management level – events / communication / portfolio
 - ④ At Political level – DG MARE-DGGROW

First concrete collaboratio MO-EMODnet Secretariat:

- ④ EMODnet Open Sea Lab II Hackathon 4 to 6 September 2019 in collaboration with CMEMS, VLIZ & ICES

New developments:

- MoU EMODnet Chemistry – CMEMS
- Exploring ingestion/display of CMEMS products on the European Atlas of the Seas

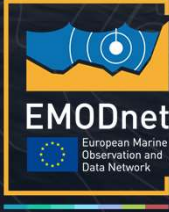



Creating a service greater than the sum of the parts! In action


EMODnet
European Marine Observation and Data Network




Meeting room scene showing participants working on laptops and documents around a large table. A banner in the background reads "#OurOcean, An ocean for life".



 @EMODnet

 EMODnet

 EMODnet

EMODnet
European Marine
Observation and
Data Network

@EMODnet
www.emodnet.eu

Your gateway to marine data in Europe