EMODnet EU Partnerships

15th EMODnet Steering Committee Meeting
8-9 September 2021

EMODnet Secretariat

EMODnet: A key contributor of open, free, and trusted integrated data and data products providing marine knowledge for key EU policies, strategies and initiatives

The European Green Deal
#EUGreenDeal

THE EUROPEAN DATA STRATEGY
SHAPING EUROPE'S DIGITAL FUTURE

International ocean governance

EUROPEAN CLIMATE PACT
#MyWorldOurPlanet
#EUClimatePact

Creating Value through Open Data

EUROPEAN OPEN SCIENCE CLOUD

EMODnet
European Marine Observation and Data Network

EMODnet: A key contributor of open, free, and trusted integrated data and data products providing marine knowledge for key EU policies, strategies and initiatives

MSPD
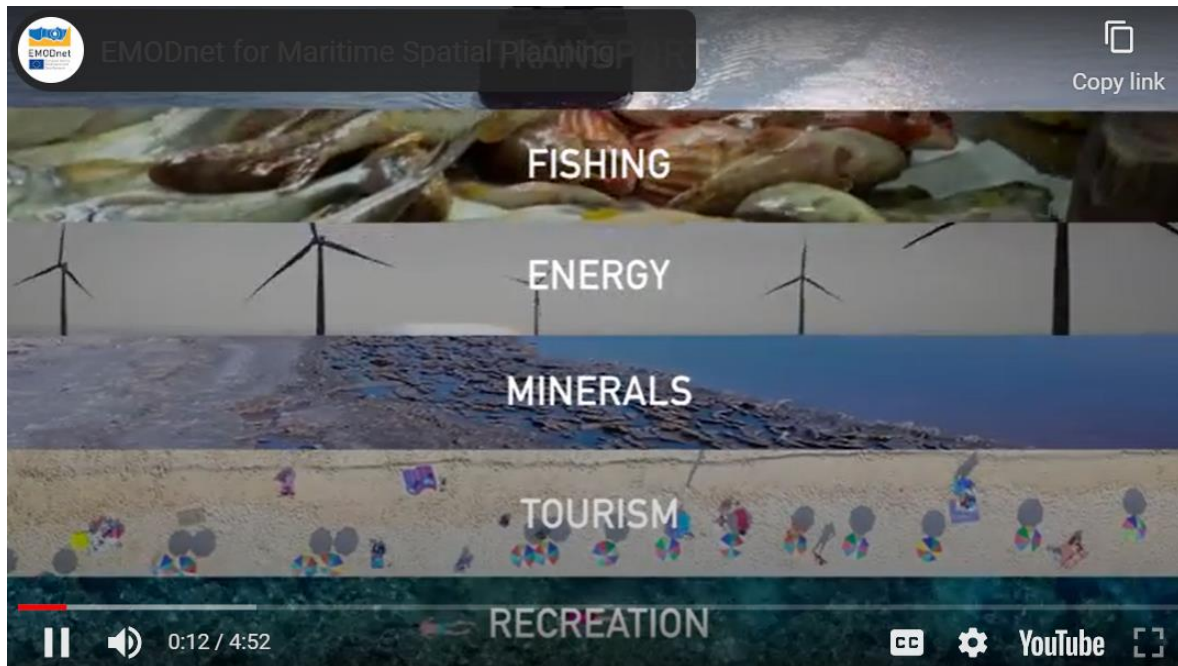
MSFD

Birds and Habitats Directive

e.g., EMODnet Seabed Habitats uses Habitats Directive Annex I habitat types and EUNIS classification system; supports Member States in Habitats Directive Article 17 reporting; provides metadata and links to gridded Annex I Habitats distribution datasets; Marine Protected Area methodologies.

EMODnet: Providing Open Data, supporting Maritime Spatial Planning - New video and dataset | European Marine Observation and Data Network (EMODnet) (europa.eu)

https://emodnet.ec.europa.eu/en/new-catalogue-support-msfd-joint-copernicus-marine-and-emodnet-initiative

EMODnet & European Partnerships:

- **EMODnet:** A key EU long-term marine data and knowledge service
- Working in close cooperation with the **Copernicus Marine Service**
- **Federated infrastructure connecting across the marine knowledge value chain:** data providers, ocean observation networks e.g. EuroGOOS, marine research infrastructures, marine monitoring, industry, civil society; data management initiatives, infrastructures & networks at national, regional and European levels
- **Close interaction with EU projects**
- **Close cooperation with Regional Sea Conventions**

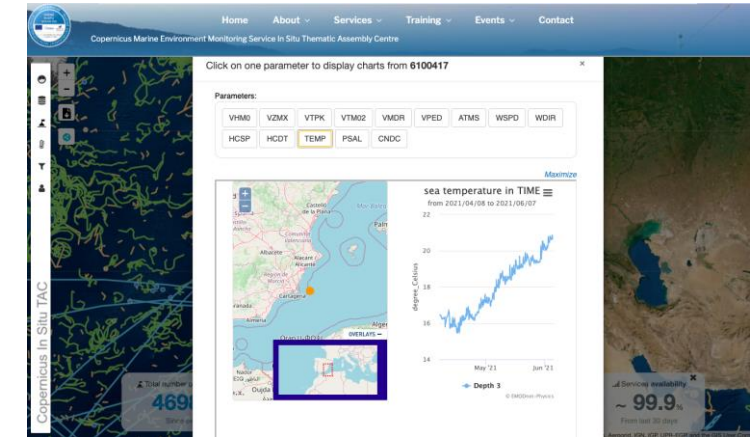# EMODnet and Copernicus Marine Service

Copernicus Marine Service (CMEMS) and EMODnet have been collaborating at coordination and operational levels for some time, as two key, long-term marine data initiatives of the European Union.

Regular Coordination meetings

o   Strategy and operational dialogue

EMODnet & Copernicus Marine Service - 5th Coordination Meeting | Maritime Forum (europa.eu)

Joint meetings on topics of interest

o   Coastal Issues

o   Marine Data for Aquaculture

EMODnet and Copernicus Marine Service

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EMODnet Physics – CMEMS: MoU since 2016

- **Complementary datasets**, products and services
- **Joint actions** on common **users/stakeholders**
- **Mutual provision of data products and services**

EMODnet Chemistry – CMEMS: MoU since 2019

- exchanging **metadata and data**
- sharing and enhancing **quality controls**
- developing **joint products**
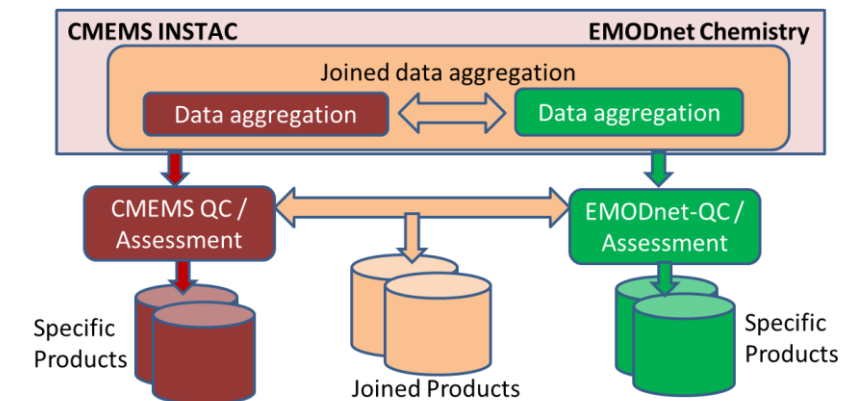
Other thematic dialogues are ongoing and expanding

EMODnet and Copernicus Marine Service

A Joint Portfolio for the Marine Strategy Framework Directive

COPERNICUS MARINE & EMODNET DATA CATALOGUE FOR THE MARINE STRATEGY FRAMEWORK DIRECTIVE

Baltic Sea Case study

Author(s): Dominique Obaton, Laurence Crosnier Copernicus Marine
Laura Bastide
Joana Beja EMODnet Biology
Alessandra Giorgetti, Chiara Altobelli EMODnet Chemistry
Alessandro Pititto EMODnet Human Activities
Antonio Novellino EMODnet Physics
Mickaël Vasquez EMODnet Seabed habitat

Date of release: June 2021

MSFD D1, D2, D3, D5, D6, D7, D8, D9, D10, D11

Gathering EMODnet & Copernicus marine data products in the Baltic sea (released 9 June 2021)

Achieved thanks to fruitful collaboration between EC DG Defis, CMEMS, EC DG MARE, EMODnet

Next steps : test the fit – for - MSFD purpose **& enlarge** to all European Seas

https://emodnet.ec.europa.eu/en/new-catalogue-support-msfd-joint-copernicus-marine-and-emodnet-initiative

Biological diversity 1. **47**	Non-indigenous species 2. **3**	Population of commercial fish/shellfish 3. **43**	Elements of marine food webs 4.
Eutrophication 5. **28**	Sea floor integrity 6. **16**	Alteration of hydrographical conditions 7. **44**	Concentrations of contaminants 8. **28**
Good Environmental Status **246**	Contaminants in fish/seafood for human consumption 9. **6**	Marine litter 10. **13**	Introduction of energy including underwater noise 11. **18**

Habitat

Product name: **Baltic seabed habitat predictive multi – scale map**
Type: model
Service source: EMODnet Seabed habitats
Name ID: EMODnet broad-scale seabed habitat map for Europe (EUSeaMap)
Variables: habitat type following the MSFD broad habitat types (as defined in Commission Decision (EU) 2017/848)
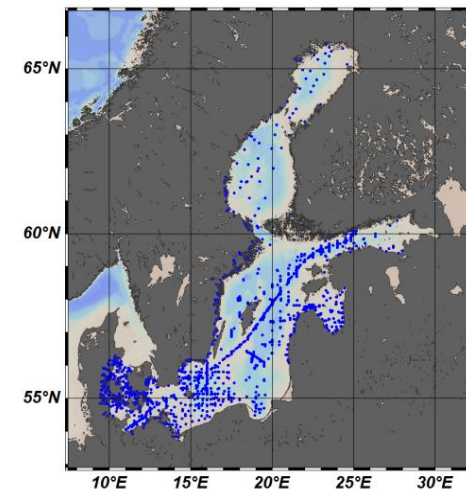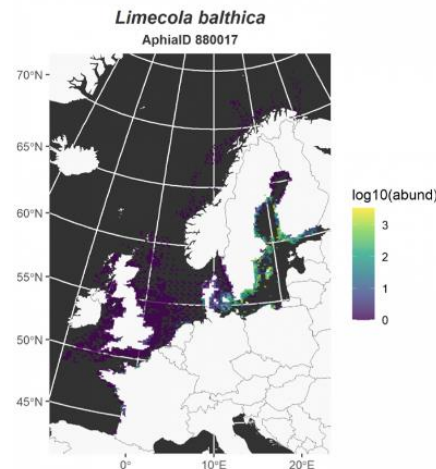Scale: multi-scale, vector format file
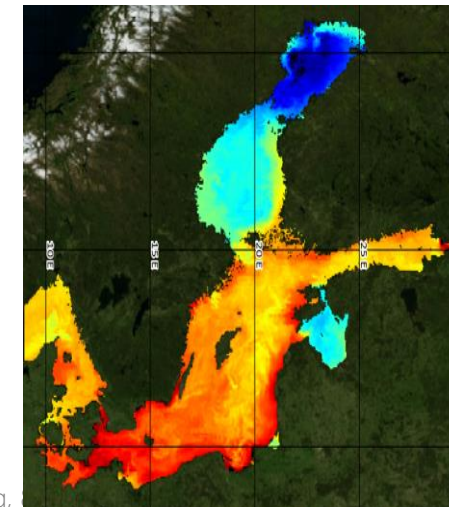Temporal coverage: n/a
Temporal resolution: n/a
Update frequency: biannual
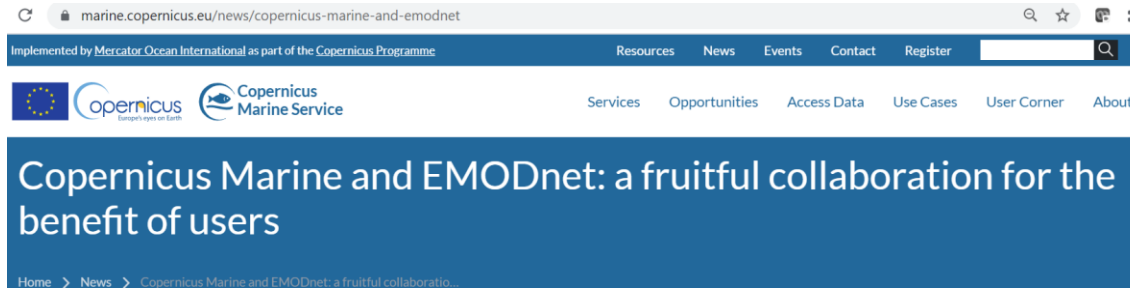Product relevancy: from coast to open sea
Viewer.

Limecola balthica
AphiaID 880017

log10(abund)

Meeting,

EMODnet and Copernicus Marine Service

Joint Use Cases

SOCIB Deployment Application (Dapp) multiplatform viewer enriched with Copernicus Marine and EMODnet data layers

Benefits for users:
SOCIB Dapp is a free and open tool for operational decision support. Data are displayed thanks to Copernicus Marine service and EMODnet. This information helps to foresee risks (i.e strandings) and opportunities (i.e eddies) and reconfigure accordingly and in quasi real time existing deployments (modifying sampling intervals, parking depths, navigation waypoints, etc).

EMODnet and Copernicus Marine Service Joint Workshops

Two workshops were jointly organised on "Marine data to support aquaculture" in regional seas, co-organised by the European Aquaculture Technology and Innovation Platform (EATIP), EMODnet, Copernicus Marine Service and the EC (DG MARE and DG Defis)

o 20-21 October 2020 (for the North Atlantic) and;

o March 25-25 2021 (for the Mediterranean and Black Seas)

The workshops brought together aquaculture practitioners, administration/governance at a national level and marine data service experts to explore opportunities and applications for marine environmental Open Access Data to support **the aquaculture sector.**

Copernicus Indicators and the European Atlas of the Seas: A tool for wider society engagement, powered by EMODnet

Global Sea level Trend

Global Sea Surface Temperature Trend
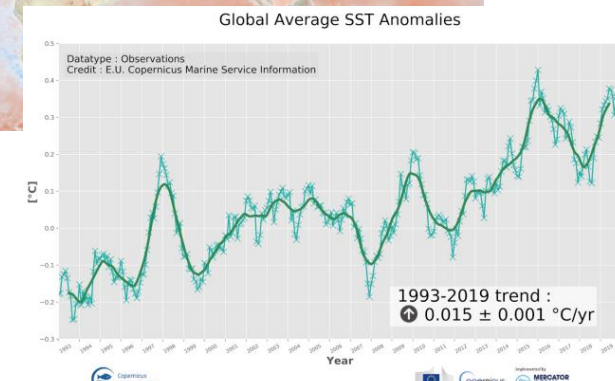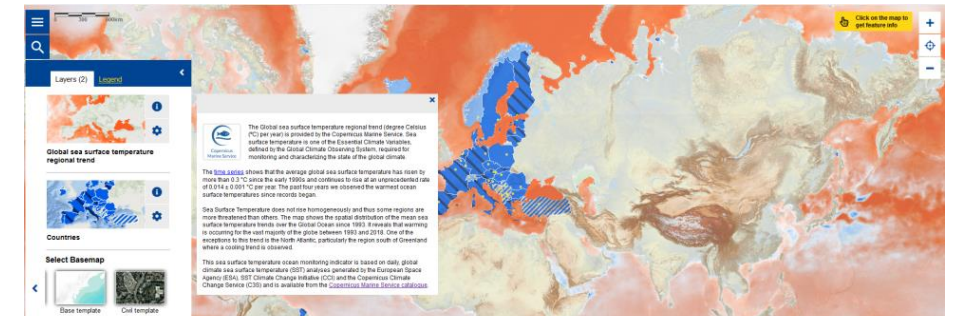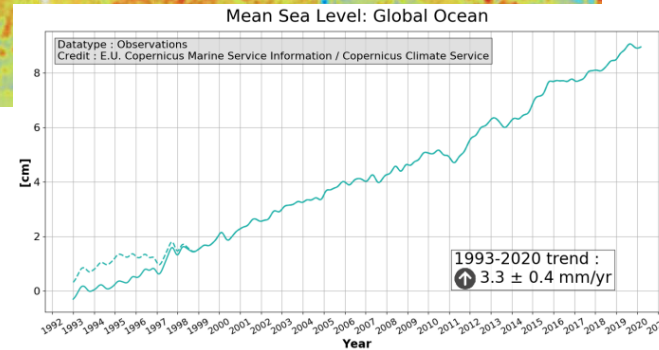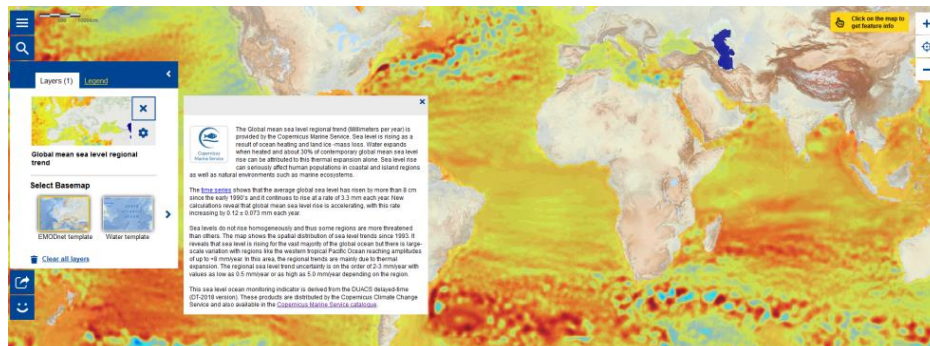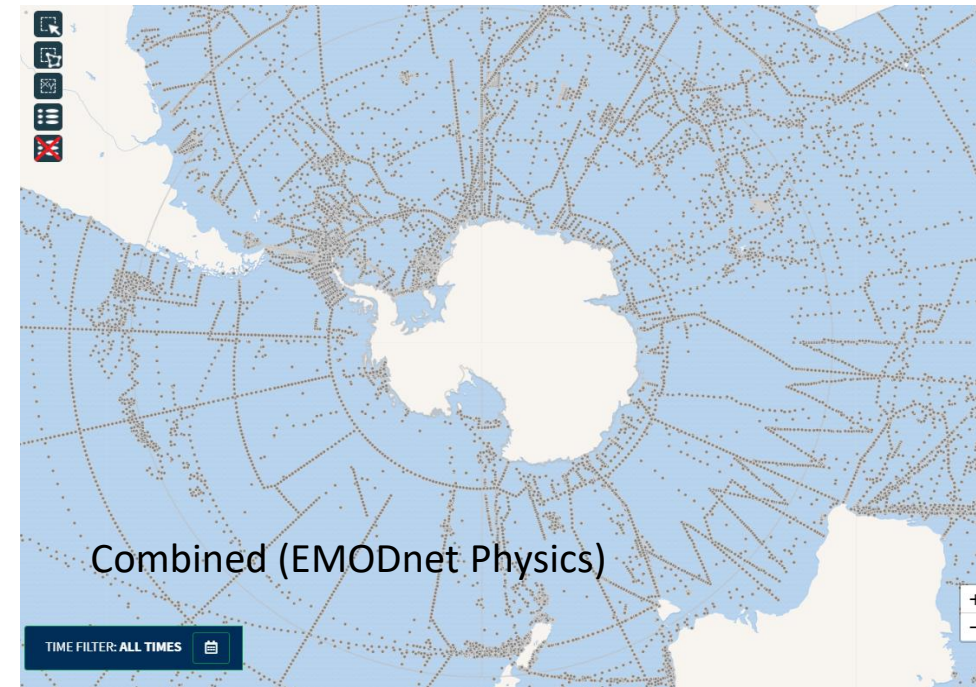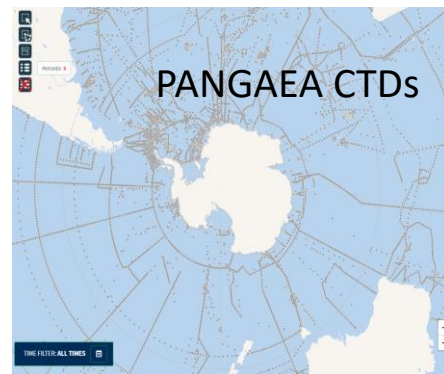
More information

EMODnet and the EU Data Landscape

EMODnet has a number of key partnerships across the EU Data Landscape, including a long-standing collaboration and MoU with Copernicus Marine Service, and key operational data flows and co-operations with marine research infrastructures (see ENVRI community, and more), data infrastructures e.g. SeaDataNet and e-infrastructures.

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Global DAC/INSTAC

PANGAEA CTDs

Combined (EMODnet Physics)

EMODnet and Marine Research Infrastructures

EMODnet's ongoing and expanding co-operations with marine research infrastructures include coastal ocean observation, multidisciplinary fixed-point open ocean platforms, Argo floats, research vessels, biological and biodiversity observations, carbon observations (including at a global level with SDG 14.3.1), river observations and the land-sea interface.

EMODnet and Regional Sea Conventions

Interactions and collaborations on:
- optimising data flows from national efforts into the EU data services
- Raising visibility and providing expert advice on EMODnet data and services, to increase the use and impact of EMODnet data and data products in RSC reporting

......"the collaboration with EMODnet [e.g., MoU with EMODnet Chemistry] has been an effective mechanism for exchange of data from the Black Sea pollution database and EMODnet contributed to the 5 years annual report .....state of Marine Environment of the Black Sea, one of the most important scientific publications of the Black Sea Commission." Iryna Makarenko, Black Sea Commission, speaker, EMODnet Open Conference 2021

UNEP-MAP Mediterranean Sea Quality Status Report (QSR) 2023: Initial dialogue with EMODnet Chemistry and the EMODnet Secretariat and opportunities for wider thematic input (Meeting, 2 September 2021)
Cluster 1- Pollution and marine litter Ecological Objectives, and common and candidate indicators: **EMODnet Chemistry**
Cluster 2: Biodiversity and non-indigenous species: **EMODnet Biology? & EMODnet Seabed Habitats?**
Cluster 3: Coast and Hydrography 2 Ecological Objectives: **EMODnet Bathymetry?**

EMODnet and EU projects

Expert technical input and advice, infrastructure, data ingestion services and open access data and data products for web-based open science for European – funded research and innovation projects, many of which are international in partnerships e.g. ocean observation, pan-Atlantic research etc, offering opportunities to strengthen marine research data ingestion into EMODnet from a wider diversity of data providers including the international research community, marine and maritime industry and more.

Atlantic REMP: Regional Environment Management Plan

EMODnet and the EU marine knowledge value chain

EMODnet also works closely with other European initiatives to strengthen the marine data and wider knowledge value chain, including on Joint Programming, marine science-policy interface and information exchange, knowledge transfer and communication.

EMODnet and the EU blue economy

EMODnet works closely with marine and maritime industry in Europe and beyond, including private sector representatives on the EMODnet Associated Partnership Scheme, the EC Marine Knowledge Expert Group, wider European Associations and European Technology Platforms, and many more, in collaboration with Copernicus Marine Service for joint use cases, workshops and more.

Ocean Observation and Marine Data for the Blue Economy ✕

STAKEHOLDERS WORKSHOPS

🕐 13:15-14:30

📍 Virtual session on Zoom

👥 503 participants signed up for this session

DESCRIPTION:

For EMD Den Helder we have selected 20 high-quality workshops. They will run in parallel in 5 time slots. This slot includes 4 virtual workshops taking place on Zoom.

>> We are pleased to announce you that the registration for the fourth **parallel virtual workshop at this slot**, on the theme of **Ocean Observation and Marine Data for the Blue Economy**, is open !

It is organized by the European Marine Observation and Data Network (EMODnet) Secretariat.

EMODnet and European Ocean Observation

emodnet.ec.europa.eu

Your gateway to marine data in Europe