



OVERVIEW OF THIS CMEMS SUBMODULE

- Information about Copernicus Marine Environment Monitoring Service (CMEMS) products:
 - Presentation of the Copernicus Marine Environment Monitoring Service website.
 - Presentation of the different types of data you can find on CMEMS website.
 - Browsing CMEMS online catalogue and access to specific types of products
 - How to access and download data from the CMEMS service through the online portal
 - How to visualize the downloaded products
- Use case:
 - We want to download temperature data along the Estonian coast for fishery activities
 - We will show you how to access and download this data from CMEMS: The Copernicus Marine Environmental Monitoring Service







CMEMS Website

- WebsiteCopernicus Marine Service: http://marine.copernicus.eu/
- Implemented by Mercator Océan
- Data Policy: full, free and open access





- 151 products
- Global ocean and 6 regional seas

Discover & Visualise



- Visualise/ analyse data
- Access info

Register



Download



- Download
- One-off or by scripts

Compute



- Use data
- Integrate
- Merge

Join Up



- Get trained
- Get inspired
- Meet partners







CMEMS Applications Overview

- Both Public and Private users need response to today's climate and marine challenges.
- The Copernicus Marine Environment Monitoring Service provides regular and systematic core reference information on the state of the physical oceans and regional seas. The observations and forecasts produced by the service support all marine applications:
 - Marine safety
 - Marine resources
 - Coastal and marine environment
 - Weather, seasonal forecasting and climate.









CMEMS Products Overview

- CMEMS is the one stop shop for all the Copernicus marine data.
- On CMEMS website, you can find all the 151 products:
- Sea Surface Temperature
 - Different area (Global, Black sea, Mediterranean Sea...)
 - Different resolution (more or less precise)
 - Different sources: altimetry ("reanalysis"), model ("forecast"), in-situ...
- Sea Salinity
- Sea Surface Height
- Velocity
- Sea Ice
- Wind
- Plankton
- Oxygen









Discover and search for CMEMS products

Marine Monitoring





Monitoring

CMEMS product: Baltic Sea

In our Use case, that means:

- Select the area and the parameter of interest: "Baltic sea" and "Temperature"
- Select your product: « Baltic sea physics analysis and forecast »
- Various criteria:
 - Overview, Variables, Characteristics (geographical coverage, spatial resolution, vertical coverage, temporal resolution ...) → Opportunity to download them in .pdf or .xml formats
- Documentation :
 - Product user manual
 - Quality information document

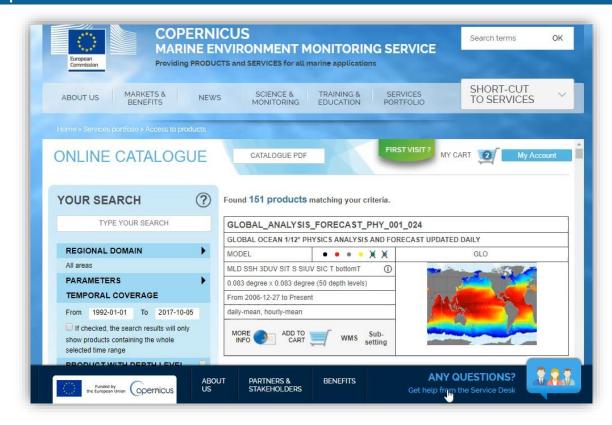






CMEMS product: How to view it?

Marine Monitoring



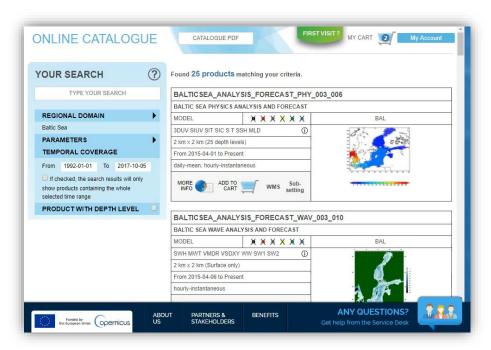




Monitoring

CMEMS product: Download the product

I want to download the product ...



... To perform this step, the registration to CMEMS is needed!



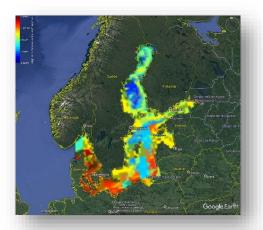


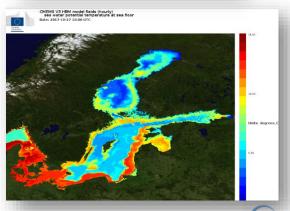
Monitoring

CMEMS product: Show the product

With Google Earth

With a picture (PNG)





opernicus Europe's eves on Earth

