

Using Copernicus Marine Service spatial data into EwE Modelling approach

7 June 2024, 9-17 CEST

Speakers: Valentina Giunta (MOi), Simone Libralato (OGS), Igor Celic (OGS), Stefano Piani (OGS), Gianpiero Cossarini (OGS)

Objective of the workshop: getting started with geospatial LTL data from the Copernicus Marine Service (CMS) and use it in EwE modelling

<https://github.com/inogs/CMEMS4EwE>

Morning session 9.00-12.45

Welcome and Registration to Marine Copernicus Service (9.00-9.20) *G. Cossarini*

Introduction to Copernicus Marine Service (9.20-9.50) *V. Giunta*

Tools (Conda, Jupyter and Python) for download and manipulate datasets (9.50-10.30) *S. Piani*

Select, visualize and download datasets through the MyOcean online Copernicus tool (10.30-11.00) *G. Cossarini*

Coffee break (15')

Jupyter Notebook on downloading datasets using Copernicus MarineDataStore (11.15-12.00) *S.Piani*

Jupyter Notebook on manipulate and visualize variables and datasets (12.00-12.45) *S.Piani and G. Cossarini*

Lunch break 12.45- 14.00

Afternoon Session 14.00-17.00

Embedding CMS products into EwE: intro (14.00-14.10) *S. Libralato*

Transform netcdf data into vector data and processing of data (14.10-14.40) *I. Celic*

Visualization of geospatial data in R (14.40-15.10) *I. Celic*

Coffee break (20')

From CMS inputs for Ecopath and Ecosim: use of a case study in the Med (15.30-16.00) *I. Celic*

Processing data to be used in Ecospace: use of a case study in the Med (16.00-16.30) *I. Celic*

Wrap up of the workshop (16.30-17.00) *S.Libralato and V. Giunta*

Getting started with Marine Copernicus Service: single point of access (marine.copernicus.eu) and registration

The screenshot shows the homepage of the Copernicus Marine Service website. The browser address bar displays 'marine.copernicus.eu'. The top navigation bar includes links for 'Resources', 'News', 'Events', 'Contact', and a prominent orange 'REGISTER' button. A search bar and a language selector set to 'English' are also present. The main header features the European Union flag, the Copernicus logo, and the 'Copernicus Marine Service' logo. A secondary navigation bar lists 'Services', 'Opportunities', 'Access Data', 'Use Cases', 'User Corner', and 'About'. The main content area has a large background image of a rocky coastline with waves. A dark overlay on the left contains the title 'Copernicus Marine Service' and a subtitle: 'Providing free and open marine data and services to enable marine policy implementation, support Blue growth and scientific innovation.' Below this is a link to 'Access Data'. A grid of four service categories is displayed: 'DATA' (Ocean Products), 'EXPERTISE' (Ocean State Report), 'TRENDS' (Ocean Climate Trends), and 'EXPLORATION' (Ocean Visualisation). Each category includes a brief description of the service.

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Resources News Events Contact → REGISTER 🔍 English

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Copernicus Marine Service

Providing free and open marine data and services to enable marine policy implementation, support Blue growth and scientific innovation.

[Access Data](#) >

DATA

OCEAN PRODUCTS

A robust ocean data catalogue, to download or visualise data including hindcasts, nowcasts and forecasts.

EXPERTISE

OCEAN STATE REPORT

Extensive annual analysis on the state of the ocean over nearly 20 years and severe/notable annual events.

TRENDS

OCEAN CLIMATE TRENDS

Monitoring the health of the ocean.
[Ocean Monitoring Indicators](#)
[Ocean Climate Portal](#)

EXPLORATION

OCEAN VISUALISATION

Dive into our 4D digital oceans through our 3 visualisation tools for beginner, intermediate and advanced users

(1) You must be a registered user in order to download the data made available on this website.

data.marine.copernicus.eu/register

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Register

Home > Register

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Please fill in all fields.

First name Last name

Email

Country

Type of organisation **3**

Blue markets **4**

☐ I accept the [terms and conditions](#)

☐ I accept the [privacy policy](#)

☐ I wish to subscribe to the **Copernicus Marine Newsletter** (optional)

Register or Log in

? Any questions? Send us a note through the chat!

(2) Few requested details on personal information

(3) type of organization:

Select your type of organisation:

Business and Private Company

Public sector/Governmental
(except University)

University/Academic/Research

Foundation Association
(non-profit organisation)

Others
(no organisation)

(4) blue markets:

Polar Environment Monitoring

Climate & Adaptation

Ocean Health

Marine Conservation & Biodiversity

Science & Innovation

Policies & Ocean Governance & Mitigation

Education & Public Health & Recreation

Extremes & Hazards & Safety




Marine Food

Coastal Services

Trade & Marine Navigation

Natural Resources & Energy

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Register



Home > Register

✉ **Check your inbox**

You'll find a **link to set your password**.

You can leave this window open. After you complete the process, you'll be automatically logged in.





(5) You will receive an email with an username and a link to set your password



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6

Please choose your new password. Use at least:

- One lowercase character
- One uppercase character
- One number
- 8 characters

Please *don't* use this special character: :






Set password

(6) after clicking the link in the email your received you can set your password

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You can go back to your original tab and continue where you left off.

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your username appears here (7)



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before starting a new session on the Copernicus Marine Service webpage for downloading datasets, you can log in from **(8)**

