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English



Services

Opportunities

Access Data

Use Cases

User Corner

About

Copernicus Marine Service

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

1) Sign up on the website

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

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

Please fill in **all** fields.

First name Last name

Email

Country

University/Academic/Research

Organisation

<https://www.unime.it>

Blue markets

- 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

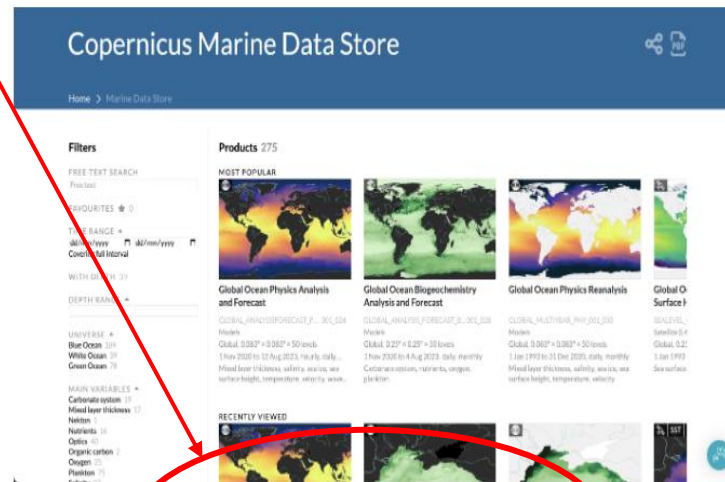
? Any questions? Send us a note through the chat!

2) Access to the Data Store

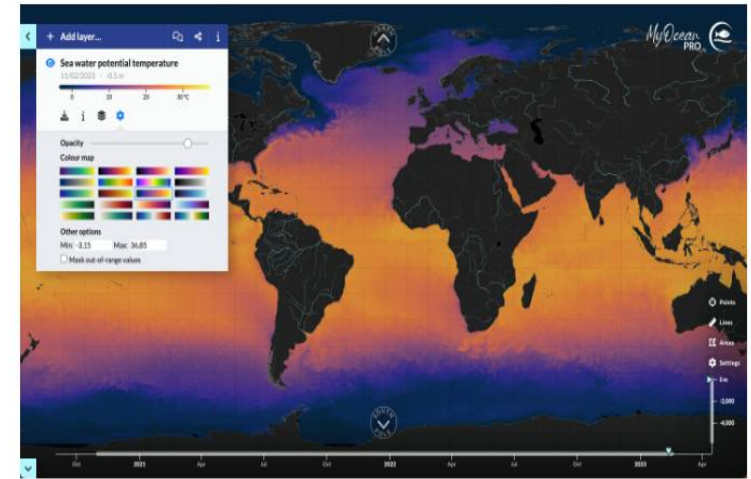
Welcome back!

You are already logged in – no need to register again.

To download Copernicus Marine products, please visit the Copernicus Marine Data Store or the MyOcean Pro viewer. To go back to the Copernicus Marine home page, click here.



Discover the Copernicus Marine Data Store



Explore MyOcean Pro

Filters Clear Advanced

Main filters ^

Free text or ID

Variables

Pick one or more

Areas

Mediterranean Sea ×

Pick one or more

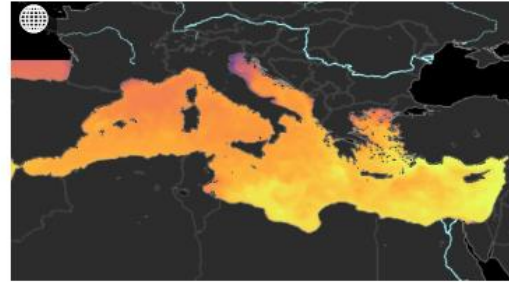
Time range

← DD/MM/YYYY

→ DD/MM/YYYY

★ Favourites ▼

Products 64 in Copernicus Marine Service ▼



Mediterranean Sea Physics Analysis and Forecast

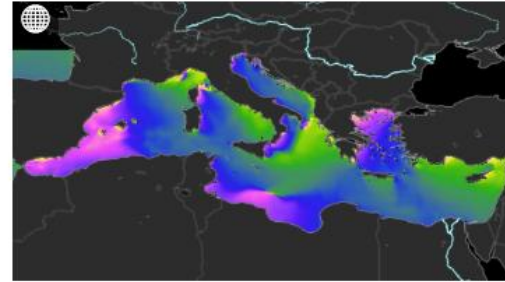
MEDSEA_ANALYSISFORECAST_PHY_006_013

Models

Med Sea, 0.042° × 0.042° × 141 levels

1 Nov 2023 to 21 Apr 2026, sub-hourly, hourly,...

Temperature, salinity, sea surface height, velocity, mixed layer thickness



Mediterranean Sea Waves Analysis and Forecast

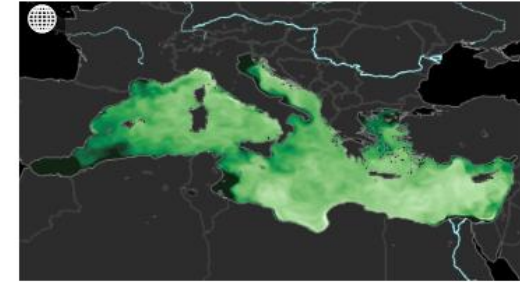
MEDSEA_ANALYSISFORECAST_WAV_006_017

Models

Med Sea, 0.042° × 0.042°

30 Nov 2021 to 22 Apr 2026, hourly

Velocity, wave



Mediterranean Sea Biogeochemistry Analysis and Forecast

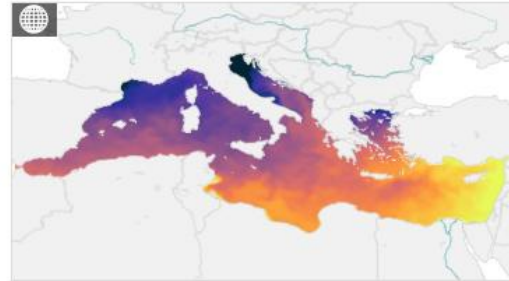
MEDSEA_ANALYSISFORECAST_BGC_006_014

Models

Med Sea, 0.042° × 0.042° × 125 levels

1 Oct 2023 to 21 Apr 2026, daily, monthly

Plankton, nutrients, oxygen, carbonate system, optics



Mediterranean Sea Physics Reanalysis

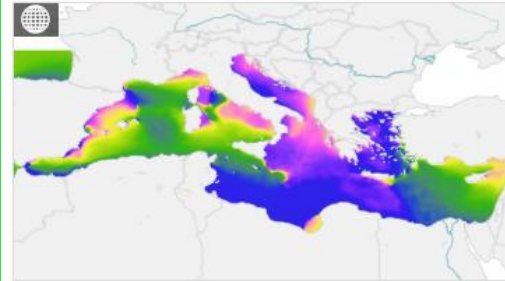
MEDSEA_MULTIYEAR_PHY_006_004

Models

Med Sea, 0.042° × 0.042° × 141 levels

1 Jan 1987 to 28 Feb 2026, hourly, daily, monthly

Temperature, salinity, sea surface height, velocity, mixed layer thickness



Mediterranean Sea Waves Reanalysis

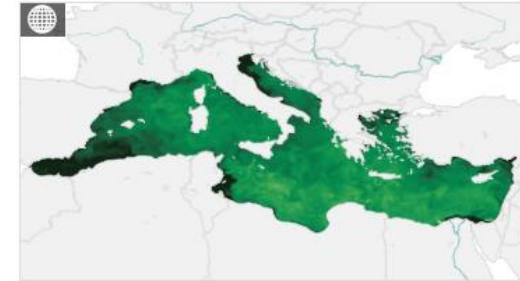
MEDSEA_MULTIYEAR_WAV_006_012

Models

Med Sea, 0.042° × 0.042°

1 Jan 1985 to 28 Feb 2026, hourly, monthly

Velocity, wave



Mediterranean Sea Biogeochemistry Reanalysis

MEDSEA_MULTIYEAR_BGC_006_008

Models

Med Sea, 0.042° × 0.042° × 125 levels

1 Jan 1999 to 1 Feb 2026, daily, monthly, yearly

Plankton, nutrients, oxygen, carbonate system

3) Select the area of interest

i Description

🔔 Notifications

📄 **Data access**

✉ Contact

DOCUMENTATION

📖 User Manual

📖 Quality Information Document

📖 Synthesis Quality Overview

📄 Licence

📄 How to cite

DOI

📄 10.25423/cmcc/medsea_analysisforecast_wav_006_017_medwam4

Overview

MEDSEA_ANALYSISFORECAST_WAV_006_017 is the nominal wave product of the Mediterranean Sea Forecasting system, composed by hourly wave parameters at 1/24° horizontal resolution covering the Mediterranean Sea and extending up to 18.125W into the Atlantic Ocean. The waves forecast component (Med-WAV system) is a wave model based on the WAM Cycle 6. The Med-WAV modelling system resolves the prognostic part of the wave spectrum with 24 directional and 32 logarithmically distributed frequency bins and the model solutions are corrected by an optimal interpolation data assimilation scheme of all available along track satellite significant wave height observations. The atmospheric forcing is provided by the operational ECMWF Numerical Weather Prediction model and the wave model is forced with hourly averaged surface currents and sea level obtained from

MEDSEA resolution 1/24° boundary

Condition GLOBAL

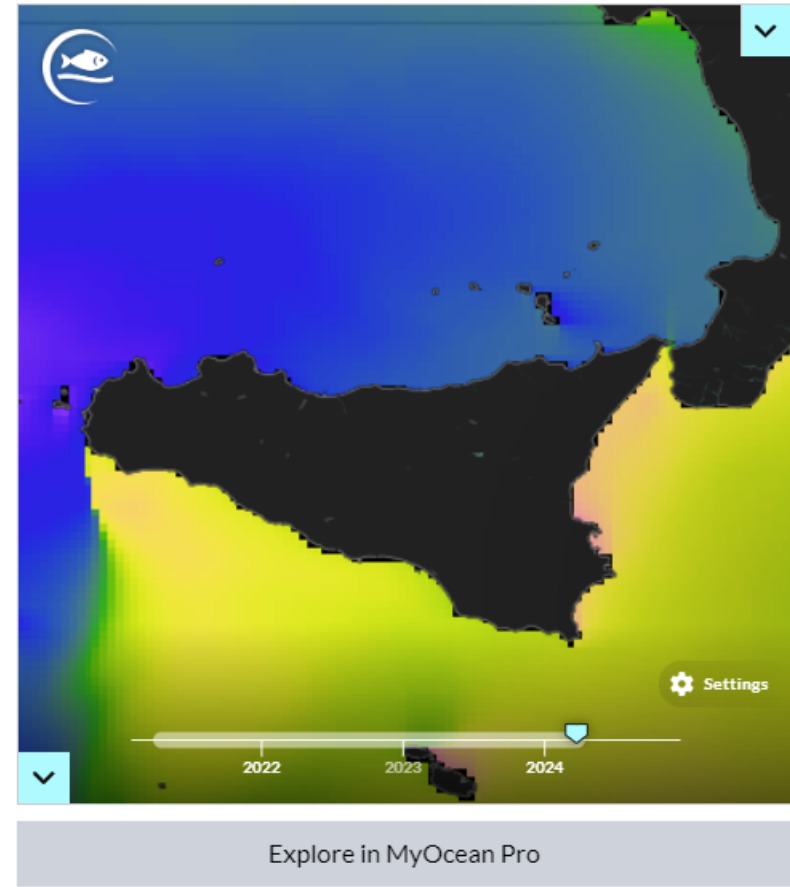
GLOBAL wave sys

Mediterranean wave analysis and 10 days of wave forecasts.

Product Citation: Please refer to our Technical FAQ for citing products. ...


Read more

4) Access to the data



Data access and mapping services

There are multiple ways to download data from this product:

- If you prefer a graphical tool, click on the top-right button: .
- **Subset:** The most intuitive graphical approach for subsetting data in time, space and/or variables. For a programming approach (WCS-like), prefer the Copernicus Marine Toolbox: [CLI](#) or [Python API](#).
- **Files:** The fastest graphical approach to get original files (FTP-like). For a programming approach, prefer the Copernicus Marine Toolbox: [CLI](#) or [Python API](#).
- **Maps:** The standard mapping service for GIS approach (QGIS or similar tools).
- If you are looking for a lazy-loading data access (*xarray/OPeNDAP-like*), copy the dataset ID and use it with the Copernicus Marine Toolbox: [Python API](#).

Dataset

Hourly

cmems_mod_med_wav_my_4.2km_PT1H-i

Climatology, month-of-year

cmems_mod_med_wav_my_4.2km-climatology_P1M-m

Statics (bathymetry)

cmems_mod_med_wav_my_4.2km_static – bathy

Statics (coordinates)

cmems_mod_med_wav_my_4.2km_static – coords

Temporal extent

01/01/1985–28/02/2026

01/01/1993–01/12/1993

–

–

Subset

Form

Form

Form

Form

Files

Browse

Browse

Browse

Browse

Maps

WMTS

WMTS

WMTS

WMTS

5) Download



DOCUMENTATION



User Manual



Quality Information Document



Synthesis Quality Overview



Roadmap



Licence



How to cite

DOI



10.48670/mds-00376

Dataset

Product identifier MEDSEA_MULTIYEAR_WAV_006_012

Product name Mediterranean Sea Waves Reanalysis

Dataset *Please choose one of the datasets in this product:*
Hourly · cmems_mod_med_wav_my_4.2km_PT1H-i

6) Select the variables of interest

Variables*

- Sea surface primary swell wave from direction *VMDR_SW1* [°]
- Sea surface primary swell wave mean period *VTM01_SW1* [s]
- Sea surface primary swell wave significant height *VHMO_SW1* [m]
- Sea surface secondary swell wave from direction *VMDR_SW2* [°]
- Sea surface secondary swell wave mean period *VTM01_SW2* [s]
- Sea surface secondary swell wave significant height *VHMO_SW2* [m]
- Sea surface wave from direction *VMDR* [°]
- Sea surface wave from direction at variance spectral density maximum *VPED* [°]
- Sea surface wave mean period from variance spectral density inverse frequency moment *VTM10* [s]
- Sea surface wave mean period from variance spectral density second frequency moment *VTM02* [s]
- Sea surface wave period at variance spectral density maximum *VTPK* [s]
- Sea surface wave significant height *VHMO* [m]
- Sea surface wave stokes drift x velocity *VSDX* [m/s]
- Sea surface wave stokes drift y velocity *VSDY* [m/s]
- Sea surface wind wave from direction *VMDR_WW* [°]
- Sea surface wind wave mean period *VTM01_WW* [s]
- Sea surface wind wave significant height *VHMO_WW* [m]

VDMR= wave from direction

VTM10= mean spectral wave period

VTPK= peak wave period

VHMO= significant wave height

Download Automate Browse files ~ 7.95 MB

Area of interest

9) Download

7) Indicate the area or point of interest

Draw on map Clear

N: 37.294
W: 12.25 E: 12.25
S: 37.294

Available data

Date range Use defaults Clear

Choose start and end times at least partly within this range: 01/01/1985, 00:00 → 31/05/2023, 23:00

From 01/01/1985 01:00
To 31/05/2023 23:00

8) Indicate the reference period