

COPERNICUS MARINE 2 - STATE OF PLAY AND 2023/2024 ACHIEVEMENTS

User uptake and serving EU policies



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Head of Markets & Services Department



**MERCATOR
OCEAN**
INTERNATIONAL

COPERNICUS MARINE 8th GENERAL ASSEMBLY

- **User Uptake and
Serving EU Policies**
Laurence Crosnier (MOi)



PROGRAMME OF
THE EUROPEAN UNION



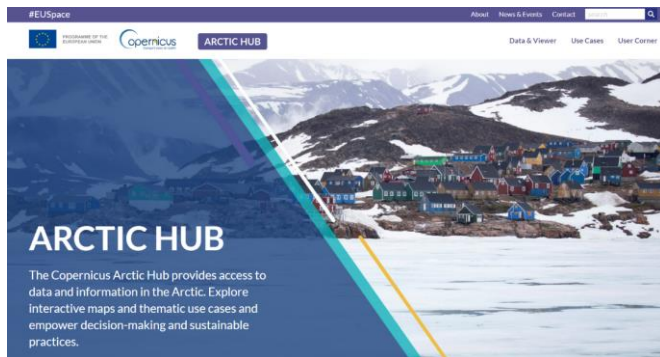
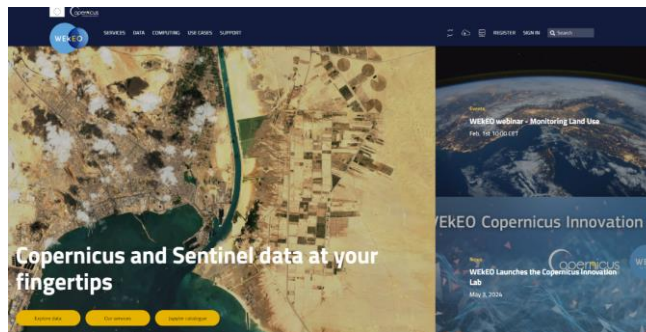
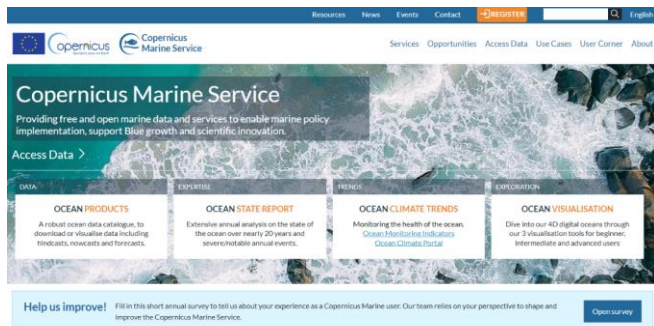
Copernicus
Marine Service

implemented by



MERCATOR
OCEAN
INTERNATIONAL

USER AND STAKEHOLDER UPTAKE ACTIVITIES ON FOUR COPERNICUS WEB PORTALS



ADDRESSING ALL MARINE COMMUNITIES

- 1 POLAR ENVIRONMENT MONITORING
- 2 CLIMATE & ADAPTATION
- 3 OCEAN HEALTH
- 4 MARINE CONSERVATION & BIODIVERSITY
- 5 SCIENCE & INNOVATION
- 6 POLICIES & OCEAN GOVERNANCE & MITIGATION
- 7 EDUCATION, PUBLIC HEALTH & RECREATION
- 8 EXTREMES, HAZARDS & SAFETY
- 9 MARINE FOOD
- 10 COASTAL SERVICES
- 11 TRADE & MARINE NAVIGATION
- 12 NATURAL RESOURCES & ENERGY



Developing actions (instruments)

Training and
WORKSHOPS

Practices and
USE CASES

Sectorial
PARTNERSHIPS

Marketing
CAMPAIGNS

Responses to
FEEDBACKS

EUSPA



Copernicus
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Outline:

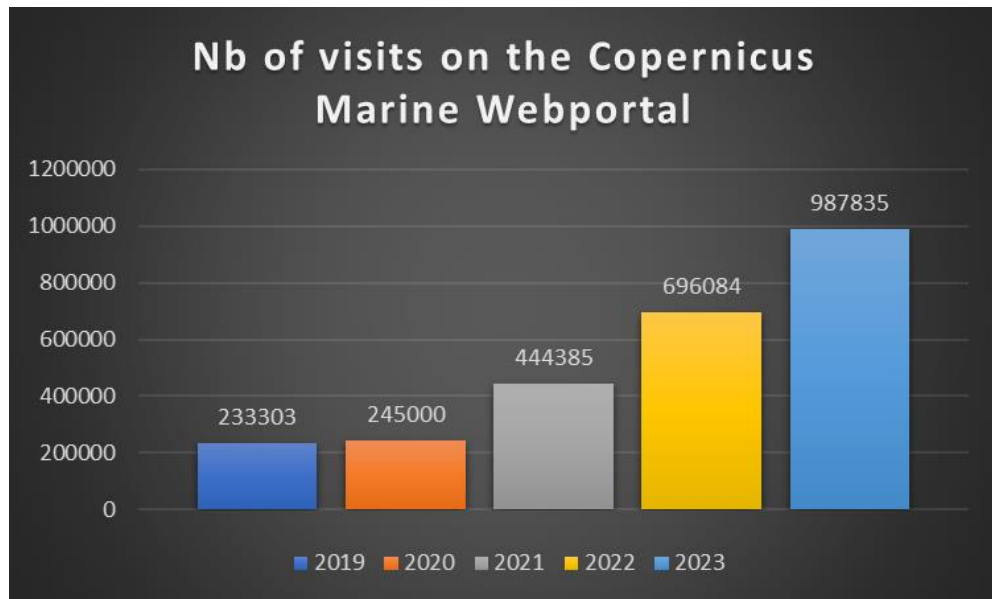
- AUDIENCE KPIs
- COPERNICUS MARINE FOR POLICIES & EU COUNTRIES
- NEW USER SERVICES
- IN THE PRESS & MEDIA



Copernicus
Marine Service

AUDIENCE KPIs

WEB AUDIENCE HAS DRASTICALLY RISEN



- 988k visits last year
- +42% from 2022
- 1.6 million unique page views

USER SATISFACTION AND DOWNLOADS



OVERALL USER
SATISFACTION:

4,5/5

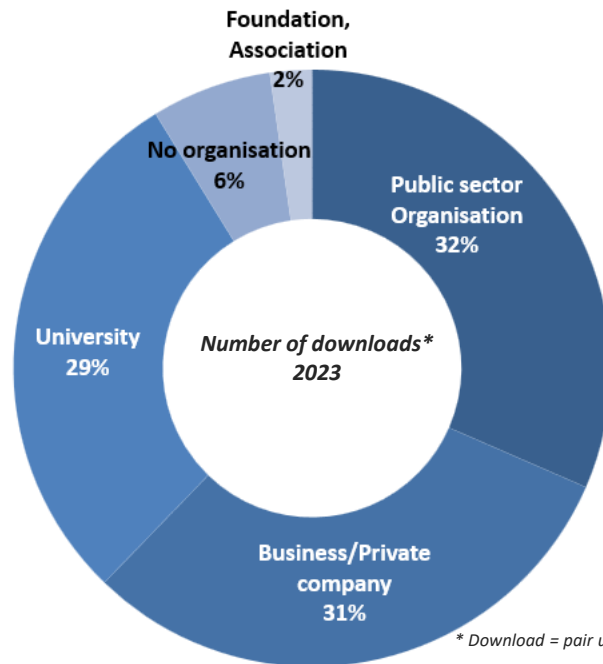
User Survey 2023

USER SATISFACTION
ABOUT USER SUPPORT:

4,7/5

2023

31% Downloads by Business
61% Downloads by Public sector

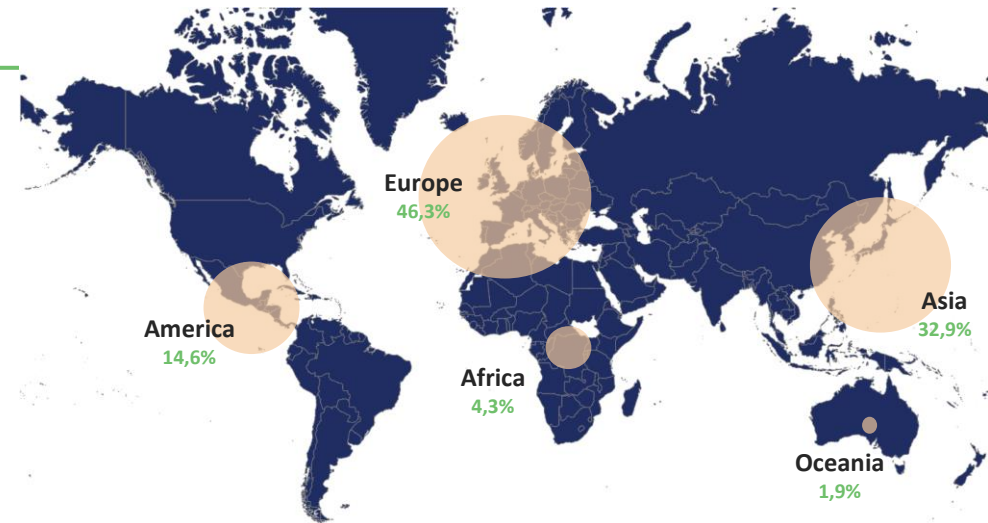


*Number of downloads**
2023

** Download = pair user/dataset per day*

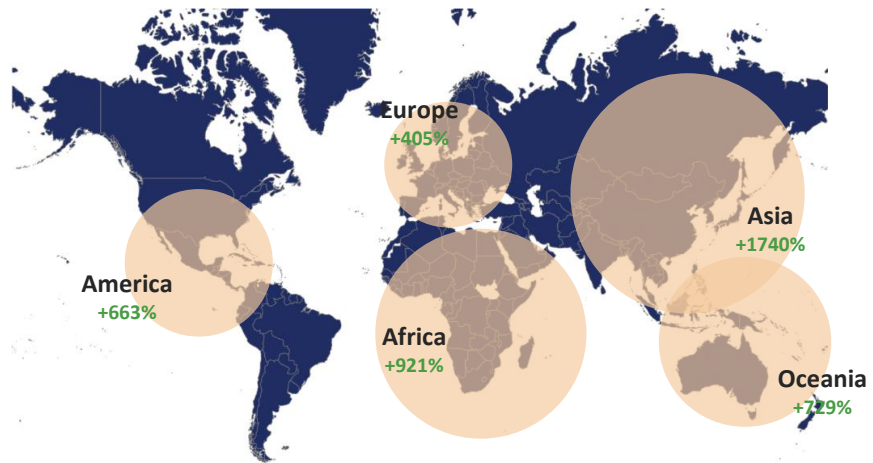
66 000 Subscribers by END 2023 (+ 30% PER YEAR)

% of Users per continent (End 2023)



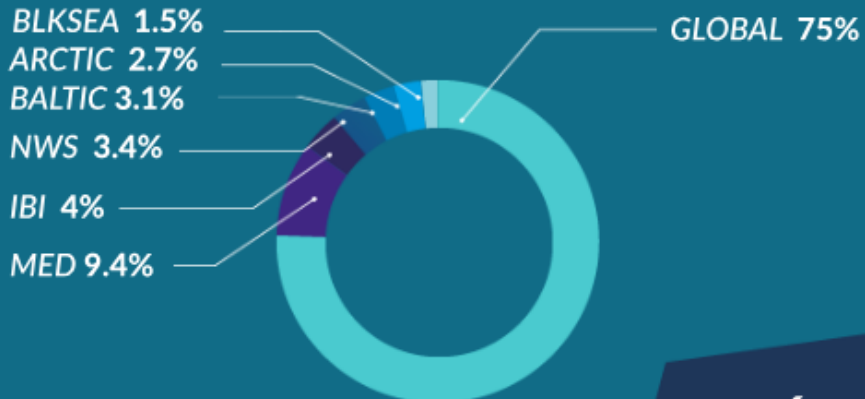
- **66 000** Subscribers by end 2023
- **73 260** Subscribers now!

Evolution of Subscribers by continent (2016 - End 2023)

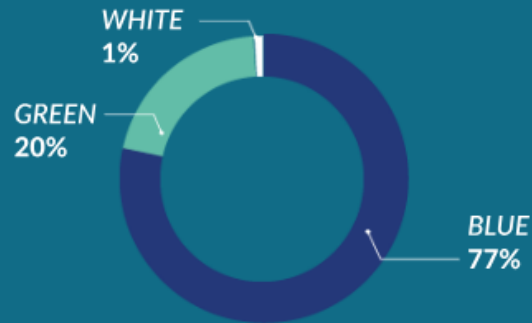


Data KPIs

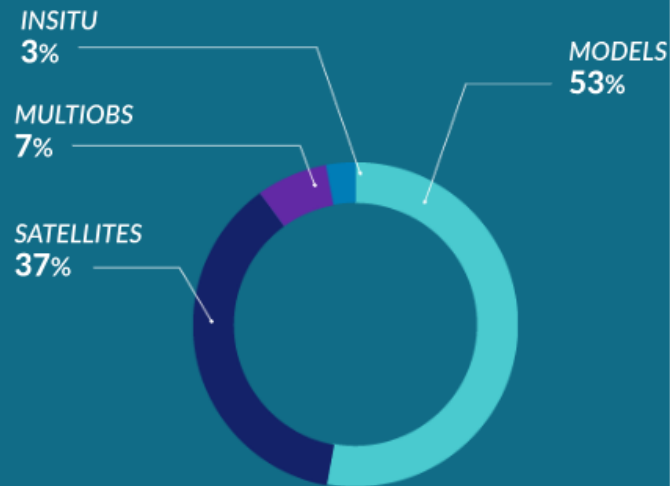
Percentage of users/product region



Distribution of Blue/White/Green products downloaded by users



Percentage of users by Model/Satellite/In situ/Multiobs



2023 OPERATIONAL KPI: BEYOND TARGETS

MARINE SERVICE OPERATIONS 2023

- **100%** availability of Central System (target **95%**)
- **99,98%** availability of Products (target **90%**)
- **99,36%** products delivered on time by Data Providers to the Central Dissemination Unit (target **93%**)

- 2 catalogue releases in 2023 (March 30 and Nov 30 2023)
- 178 Ocean products (Blue/Green/White) and 99 Ocean Monitoring Indicators

More KPIs

2022



2023



More information



Copernicus
Marine Service



- COPERNICUS MARINE
FOR POLICIES
& EU COUNTRIES**

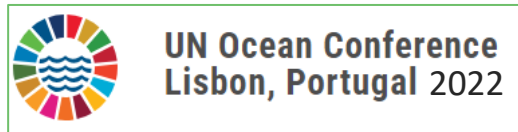
THE OCEAN HIGHER THAN EVER IN THE POLITICAL AGENDA

EU framework:

- ❑ EU policies: Green Deal, Digital Strategy, Mission Ocean, CFP, Arctic Policy, MSFD, MSP, Coastal, International Ocean Governance

International framework:

- ❑ Ocean Decade, G7 FSOI, UN/SDG, GEO, IPCC, UNFCC, CBD, Sendai



Digital Ocean Forum 2024 - June 13 2024 - Brussels

INVITATION

EU MISSIONS
RESTORE OUR OCEAN & WATERS

Digital Ocean Forum #3

Wednesday 12 June, 10:00-18:00
Scientific and Technical Workshop Brussels, Palais des Académies

Thursday 13 June, 9:30-16:30
High-Level event Brussels, Palais des Académies

in cooperation with

EDITO   



Support to Regional & International Sea Conventions



World Environment Situation Room
Data, Information and Knowledge on the Environment



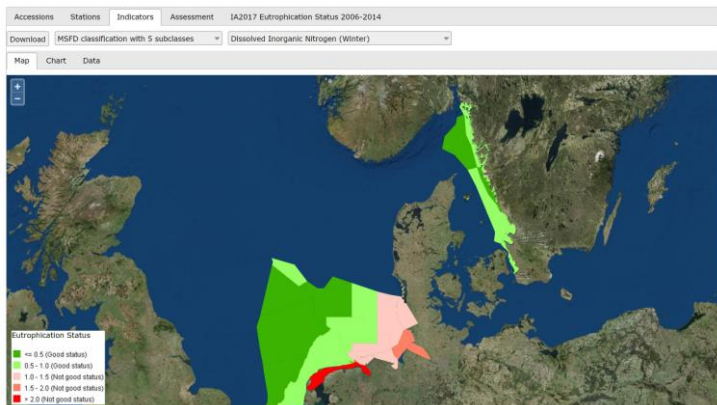
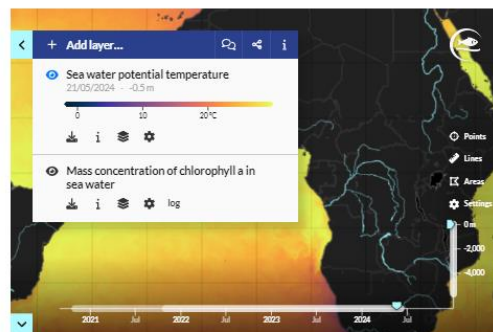
ICES
CIEM
International Council for the Exploration of the Sea
Conseil International pour l'Exploration de la Mer

[Home](#) | [Other Ocean and Coastal Data Platforms](#) | [Events](#) | [UN Ocean Decade](#)

Ocean, Seas and Coasts



Essential Ocean Variables



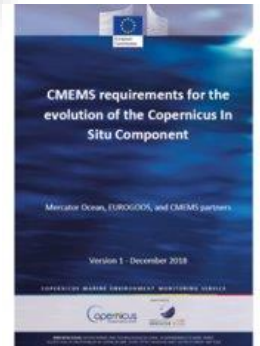
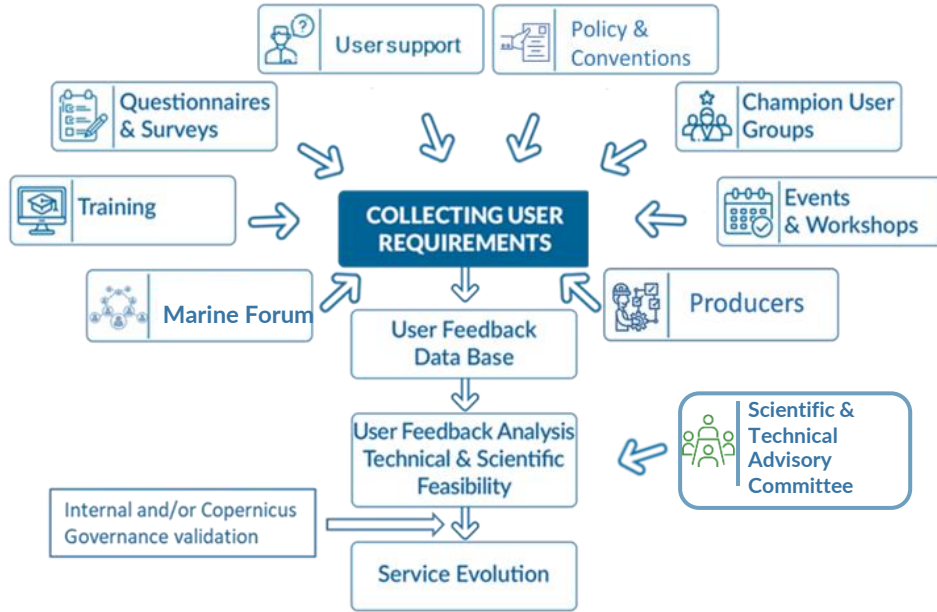
COPERNICUS MARINE / 8th GEI

Visit MyOcean Tool

Visit other Ocean and coastal data platforms

A USER AND POLICY DRIVEN SERVICE

Translate User feedbacks into achievable service evolution objectives



COPERNICUS MARINE NATIONAL STAKEHOLDER FORUM

19 countries as a member of the Marine Forum

- **United Kingdom** has joined
- New contact point for Spain
- Contacts with Ireland, Greece and Luxembourg: still on-going
- 2 meetings/year: Last meeting held on May 17 2024. Next meeting on Nov 8 2024.

More information

Join us! Contact us at
marineforum@mercator-ocean.eu.

Austria
Belgium
Bulgaria
Croatia
Cyprus
Czech Republic
Denmark
Estonia
Finland
France
Germany
Greece
Hungary
Ireland
Italy
Latvia
Lithuania
Luxembourg
Malta
Netherlands
Poland
Portugal
Romania
Slovakia
Slovenia
Spain
Sweden

Iceland
Norway
United Kingdom


























TWO COPERNICUS CHAMPION USER ADVISORY GROUPS

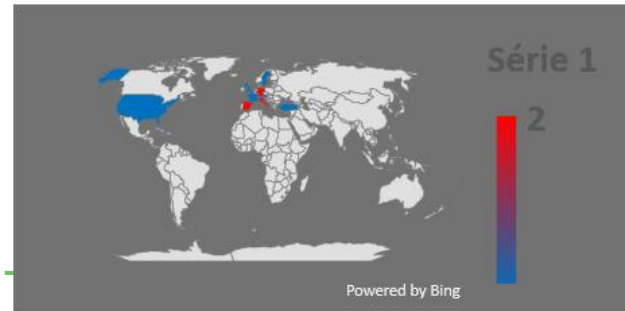
COPERNICUS MARINE

 <p>Andrea Taramelli IUS University, Paris and Institute for Environmental Protection and Research/Rome Italy</p> 	 <p>Briac Le Vu AMPHITRITE Ocean Data Intelligence France</p> 	 <p>Fearghal O'Doncha IBM Research Europe Ireland</p> 
 <p>Felipe Fernandez IH Cantabria Spain</p> 	 <p>Francisco Campuzano COGAB + ATLANTIC Portugal</p> 	 <p>Giulio Ceriola Planetek Italia</p> 
 <p>Henrik Ramm-Schmidt mauisGA.com Finland</p> 	 <p>Henrik Andersson DHI Denmark</p> 	 <p>Intissar Kechouche StormGeo Norway</p> 
 <p>Ivica Janekovic Associate Professor at University of Western Australia / GEOM Croatia</p> 	 <p>Jean-Noël Druon Joint Research Centre - European Commission - Unit D.02 Water and Marine Resources</p> 	 <p>Karl Christian Strømsten OCELOS AS (Othello Technology AS) and Open Ocean Farming AS Norway</p> 
 <p>Lasse Rabenstein DHI - Raiser Polar Service - Germany</p> 	 <p>Lorinc Meszaros Deltres Netherlands</p> 	 <p>Matthias Delpey Center Rivages Pro Tech of SUR / Joint Laboratory KOSTARISK France</p> 
 <p>Paola Tepsich CIIMA Research Foundation CIIMA</p> 	 <p>Silvia Unguendoli Arpaè SIMC Emilia-Romagna (hydro-Meteorological Structure of the Regional Agency for Prevention, Environment and Energy of the Emilia-Romagna Regions) Italy</p> 	 <p>Waqas Qazi Offshore Monitoring Ltd Cyprus</p> 



WEKEO

 <p>Aditi Goswami United Kingdom Telespazio UK</p> 	 <p>Giovanni Paolini Spain isardSAT</p> 	 <p>Valérie Garnier France LOPS, Ifremer</p> 	 <p>Meral Leman Cukurcaayir Turkey Meteorological Service</p> 
 <p>Dominique Weber Switzerland Swiss Federal Institute</p> 	 <p>Lourdes Albizua Huarte Spain tracasa</p> 	 <p>Zhanzhang Cai Sweden Lund University</p> 	 <p>Phillip Adis Germany Bareways GmbH</p> 
 <p>Gorica Bratic Italy Politecnico de Milano</p> 	 <p>Raynier van Egmond United States XFintell Semantic Solutions LLC</p>	 <p>Mohammad Hatamjafari Institute on University of Duisburg-essen</p> 	 <p>Saverio Vicario Italy Institute on Atmospheric Pollution Research</p> 
 <p>Gabriele Schwaizer Austria ENVEO IT GmbH</p> 			



Cop
Mar

Engaging further with more stakeholders



TRAINING WORKSHOPS and HACKATHONS



2023

2024

TRAININGS & HACKATHONS
Copernicus Marine - Training NWS
Copernicus Marine - Training IBI
Copernicus Marine - MarineData4Africa
Copernicus Marine - Ocean literacy for Journalists
Copernicus Marine - Assessing Ecosystem's Health
Copernicus Marine - Marine Data For Sustainable Informed Policies

TRAININGS & HACKATHONS
Copernicus Marine: #MarineData4Asia
Copernicus Marine: #MarineData4SouthAmerica
#OceanHack4EU: Copernicus Marine Hackathon

EVENTS
Copernicus Marine General Assembly
Ocean Reanalyses Workshop of the Copernicus Marine Service
Copernicus Data at the Service of the EU Arctic Policy, an event at the European Parliament

EVENTS
Copernicus Marine General Assembly
Copernicus Marine Forum
The Copernicus Coastal hub at the EMD 2024
Ocean Predict Symposium



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Marine Service

NEW USER SERVICES

The new Marine Toolbox is now operational!

The Marine Data Store and Toolbox is now operational since early March 2024.



High data access performance

99.99% availability
sub-second latency



Removal of quotas

Unlimited parallel jobs
Unlimited data size



New use cases

Data-proximate processing
Web-based exploration at full dataset resolution
Full metadata access (from product to dataset to variable)

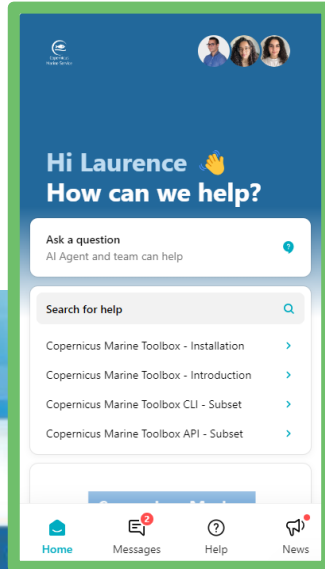


Removal of barrier into the entry

Standardized API
Open Source Softwares
More File Formats (NetCDF, GeoTiff, CSV, GRIB, etc)

[More information](#)

User Support Chatbot



% resolved by self-service support



96.9%

Number of seeking support
162 729



% resolved by human support



3.1%

187
articles on the Copernicus
User Support
help.marine.copernicus.eu

261 310
Total article views

● Myocean viewers

MYOCEAN LEARN

FOR BEGINNERS



Understand key variables

MYOCEAN LIGHT

FOR INTERMEDIATE USERS



Access key variables

MYOCEAN PRO

FOR EXPERTS



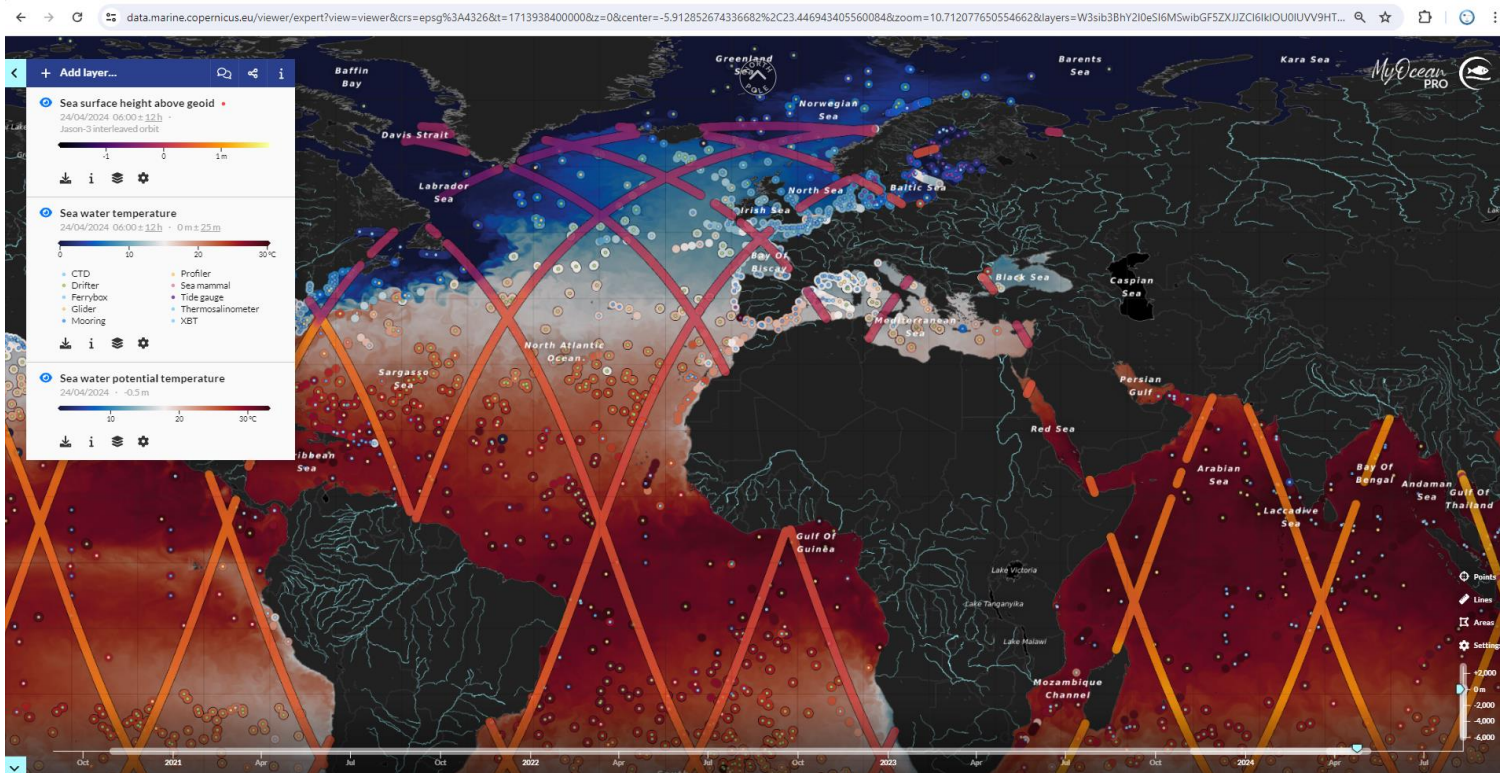
Access full catalogue

277k
users

x 4.5
vs 2022



MyOcean PRO: In-situ and along-track data



OUTREACH AND OCEAN LITERACY

The infographic titled "Why is the ocean important?" is divided into two main sections: "The ocean is central to the functioning of the planet" and "The ocean is central for human well-being". The central part of the infographic is a circular diagram with "ENVIRONMENT" at the top, "ECONOMY" at the bottom, "SOCIETY" on the left, and "CIVIL SOCIETY" on the right. The left side lists: Weather and Climate, Food Security, Biodiversity Reservoir, Urban and Regional Planning, Water Reservoir, Carbon Storage, Heat Storage, O₂ Reservoir, Ocean Currents, Ocean Waves, Sea Ice, and Sustainable Blue Economy. The right side lists: Marine Space, Public Health, Recreation and Tourism, and Ocean Governance. The bottom of the infographic shows a coastal scene with a lighthouse, palm trees, and buildings.

Below the infographic, a laptop displays the "Recreation and Tourism" page of the marine.copernicus.eu website. To the right, a monitor displays the "Ocean Climate Portal" with the following data:

Indicator	Value	Change
Sea Surface Temperature	↑ 0.4 °C	1950-2020
Greenhouse Gas Concentration	↑ 0.06 ppm	1958-2020
Atmospheric CO ₂	↑ 2.14 ppm	1958-2020
Ocean Acidification	↓ 60 μmol/kg	1980-2020
Sea Level	↑ 9.57 cm	1993-2020

Below the monitor, the URL marine.copernicus.eu/ocean-climate-portal is displayed with a globe icon.

Below the infographic, the URL marine.copernicus.eu/explainers/why-ocean-important is displayed with a globe icon.

Data Offer in a Nutshell



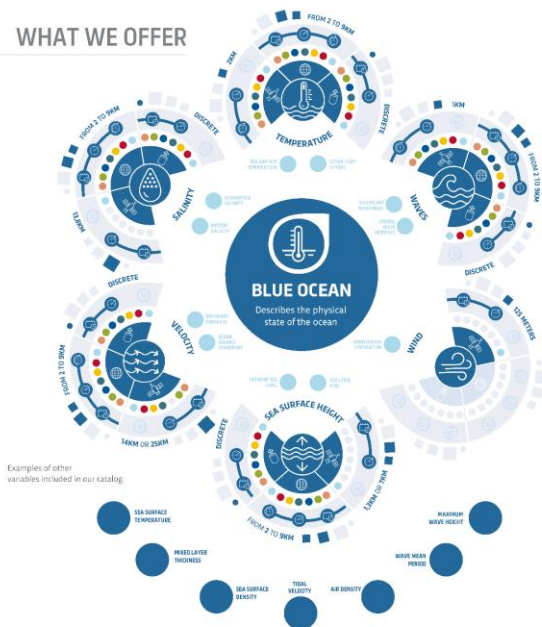
COPERNICUS MARINE SERVICE DATA IN A NUTSHELL

Global and Regional Ocean Monitoring and forecasting through satellite, in situ observations and 3D models, translated by experts into verified data, indicators, reports and training sessions.

HOW TO READ:



WHAT WE OFFER





Copernicus
Marine Service

● **IN THE PRESS & MEDIA**

SOCIAL MEDIA 2023 AND DOWNLOADS

- + 203% growth rate for **LinkedIn**
- + 26% growth rate for **Twitter X**
- + 45% growth rate for **YouTube**

C/ Copernicus Marine Community on social media



D/ Most downloaded documentation

Total downloads on the website
43 130

PMU (Product User Manual) & QUID (Quality Information Document)

PMU Downloads
31 888

QUID Downloads
11 242

Ocean State Report issue 7

INTERACTIVE SUMMARY

Number of visitors
28 655

Pageviews
32 775

FULL REPORT

Website Translation into 23 EU languages



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 data with our 3 visualisation tools, from intermediate analysis to full data access.

- Български
- Čeština
- Dansk
- Deutsch
- Eesti
- Ελληνικά
- Español
- Français
- Hrvatski
- Italiano
- Latviešu
- Lietuvių
- Magyar
- Malti
- Nederlands
- Polski
- Português
- Română
- Slovenčina
- Slovenščina
- Suomi
- Svenska



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THANK YOU!
