

Copernicus Marine Status – 2022 / overview

- 1) Political and technical Kick-off of operations
 - Kick-off event with EC, partners and all contractors
 - Start of new contracts for 3-year operations
- 2) Planning and delivering
 - Two new releases of Copernicus Marine Portfolio
 - Ocean State Reports 6 & 7
- 3) Re-enforced gouvernance: Marine User Forum
- 4) Decision to entrust MOi for Coastal and Arctic Thematic Hubs
- 5) Start coastal extension of the service
- 6) Brexit issues
- 7) Ocean ECVs processing for C3S/ECMWF
- 8) Innovation
 - Selection and kick-off (June 2023) of 14 service evolution R&D projects
 - Launch of our first user engagement calls January 2023.
 - H2020 and Horizon Europe (Copernicus evolution): ECFAS (with Emergency Service). NECCTON - Marine Biology and ACCIBERG - Arctic. Proposal for Coastal Marine.















BLUE OCEAN Currents, temperature,

waves, sea level, ...

WHITE OCEAN Ice coverage, velocity, concentration, Icebergs ...

CO2, nutrients, oxygen, primary production, ...

Copernicus Marine Service in COPERNICUS 2: Continuity of the Blue/White/Green Offer + a series of major evolutions developed depending on priorities & budget





A wide range of applications (environment, society, economy) Support to EU policies (Green Deal) – regular increase of user uptake

49,000 subscribers (+ 20% per year)

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Marine Service

680,000 single visitors per year on the web portal in 2022 (+ 40% wrt 2021)

ENVIRONMENT				SOCIETY				ECONOMY			
POLAR ENVIRONM MONITOR	NENT CONSERVATION &	OCEAN HEALTH	CLIMATE & CLIMATE ADAPTATION	POLICIES & OCEAN GOVERNANCE & NITIGATION	EDUCATION, PUBLIC HEALTH & RECREATION	SCIENCE &	EXTREMES, HAZARDS & SAFETY	COASTAL SERVICES	MARINE FOCO	NATURAL RESOURCES & ENERGY	TRADE & MARINE NAVIGATION
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implemented by





JULY 2022 AND NOVEMBER 2022 PRODUCT RELEASE

July 2022

- A new hourly near-real-time wind satellite product at 0.125-degree horizontal resolution for the Global Ocean (L4).
- The number of satellite Ocean Colour products has been greatly reduced (data reorganization).

November 2022 (major release)

- 2 new satellite **WIND** products (L4, Multi-Year)
- 2 new Multi-Observation **SALINITY** products (L3, L4, from SMOS)
- Addition of **CLIMATOLOGIES [1993-2016]** for model Multi-Year products
- Addition of new GREEN VARIABLES in BGC models such as Alkalinity and Dissolved Inorganic Carbon
- Addition of new **WHITE VARIABLES** in Physics & Sea-Ice models such as albedo, sea ice type, sea ice age, area fraction of ridged ice
- Numerous **PRODUCT QUALITY IMPROVEMENTS** (e.g. Global and IBI MFC)

Marine Monitoring

UPDATED MARINE DATA STORE LOOK&FEEL

The way to access the Copernicus MARINE DATA STORE has been updated:

- New design and look & feel
- Faster to load pages
- Easier to search and explore data
- More intuitive to download data
- Now includes Indicators and Trends products
- New filters

Marine Monitoring

• And much more....

NEW FILTER FOR EU DIRECTIVES!!

EU DIRECTIVE A ARCTIC policy 16 Marine Strategy Framework Directive (MSFD) 1 Maritime Spatial Planning (MSP) 2 Water Framework Directive (WFD) 1

More information

Ocean State Report: Revised Strategy, Organisation and New Journal



Publication of OSR6 (JOO) and its summary

From OSR7 : State of the Planet / Copernicus Publications

JOURNAL



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MERCATOR OCEAN

INTERNATIONAL

Copernicus

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NATIONAL MARINE STAKEHOLDER FORUM

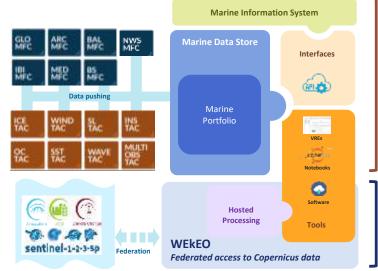
First meeting of the Marine Forum took place on October 17, 2022.

Next meeting planned in May 2023.

Objectives:

- \Rightarrow Foster deeper interactions with Member and Contributing States (MS) in the marine domain.
- \Rightarrow Contribute to a better integration of the Copernicus Marine Service with MS expectations and assets.
- \Rightarrow Co-design and implement actions with MS in the coastal marine areas.

AN INTEGRATED COPERNICUS MARINE / WEKEO PLATFORM AND SERVICE EMBRACE NEW CAPABILITIES OF DIGITAL SERVICES



Mutualised

Resources

Service Desk
Copernicus Marine and WEKED
WWW portal
WWW portal
WEKED
Narine
VEKED
VEKED
VEKED
VEWED



Copernicus Marine and WEkEO in Copernicus 2: Integration of WEkEO services in the Marine services (VREs, Notebooks), mutualization of development (www, Viewers) and User Support activities



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MERCATOR

Marine Service

In synergy with **Digital Twin Ocean and Destination Earth** initiatives







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Towards a new offer for coastal marine



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Improved coastal zone monitoring:

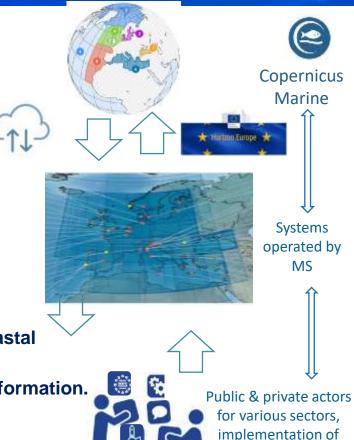
- □ New or improved satellite products (e.g. time evolving bathymetry, ocean colour, waves, winds, sea level,...).
- □ Improved in-situ data sets (JERICO, EMODnet).
- □ Towards standardized (freshwater, nutrients, particulate and dissolved matter) modelled river discharges.
- □ Cooperation with EMODnet, Emergency and Land Services

Co-design/co-production with Member States :

- Coupling between Copernicus Marine and a series of coastal models operated by Member States.
- Integration in Marine portfolio of coastal model derived information.

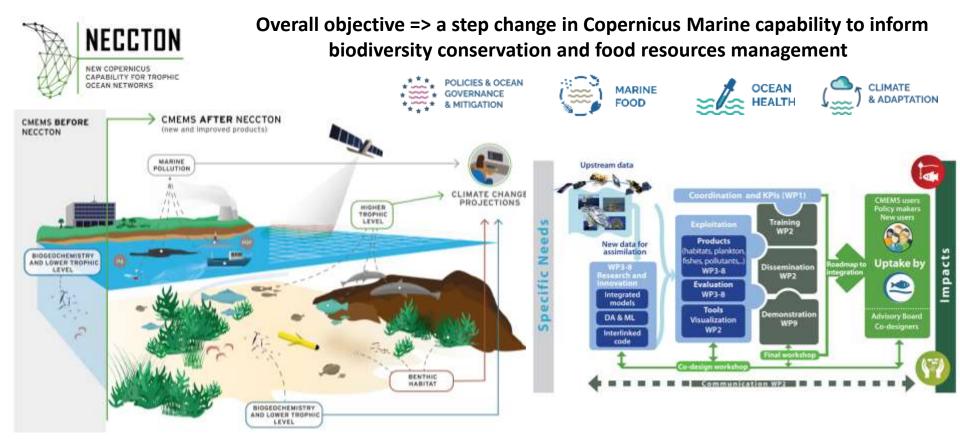






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policies...



- Duration: 4 years project (Jan 2023-Dec 2026) Kick-Off : 24-26 January, 2023
- Budget: 10 MEuros Partners: 23
- PI: S Ciavatta (MOi); PM: J Heard (PML)







MOi leads the development of the Copernicus Thematic Hubs for Coastal Zones and the Arctic. Collaboration with EEs+KCEO (JRC, DG DEFIS). Design phase started. First demonstration web portals will be launched by mid-2023, and will include all existing Copernicus data. The two hubs will be based on WEkEO platform.



PROGRAMME OF

Marine Service





INTERNATIONAL