

The European Ocean Observing System (EOOS) Framework within the ocean observing landscape

9 June 2025











Sheila Heymans

European Marine Board





Agenda





15:05-15:10	Inga Lips, Outgoing EOOS Chair: The European Ocean Observing System (EOOS) Framework within the ocean observing landscape
	Fabrizio Dortenzio, CRNS, FrOOS:
15:10-15:15	National coordination and integration at the French Ocean Observing System
15:15-15:40	Moderated discussion: re ocean observations fit for the implementation of the EU
	Oceans Pact?
	Inga Lips, Outgoing EOOS Chair
	Fabrizio Dortenzio, CRNS, FrOOS
	Zoi Konstantinou, DG MARE
15:40	Closing remarks







Lips, Inga

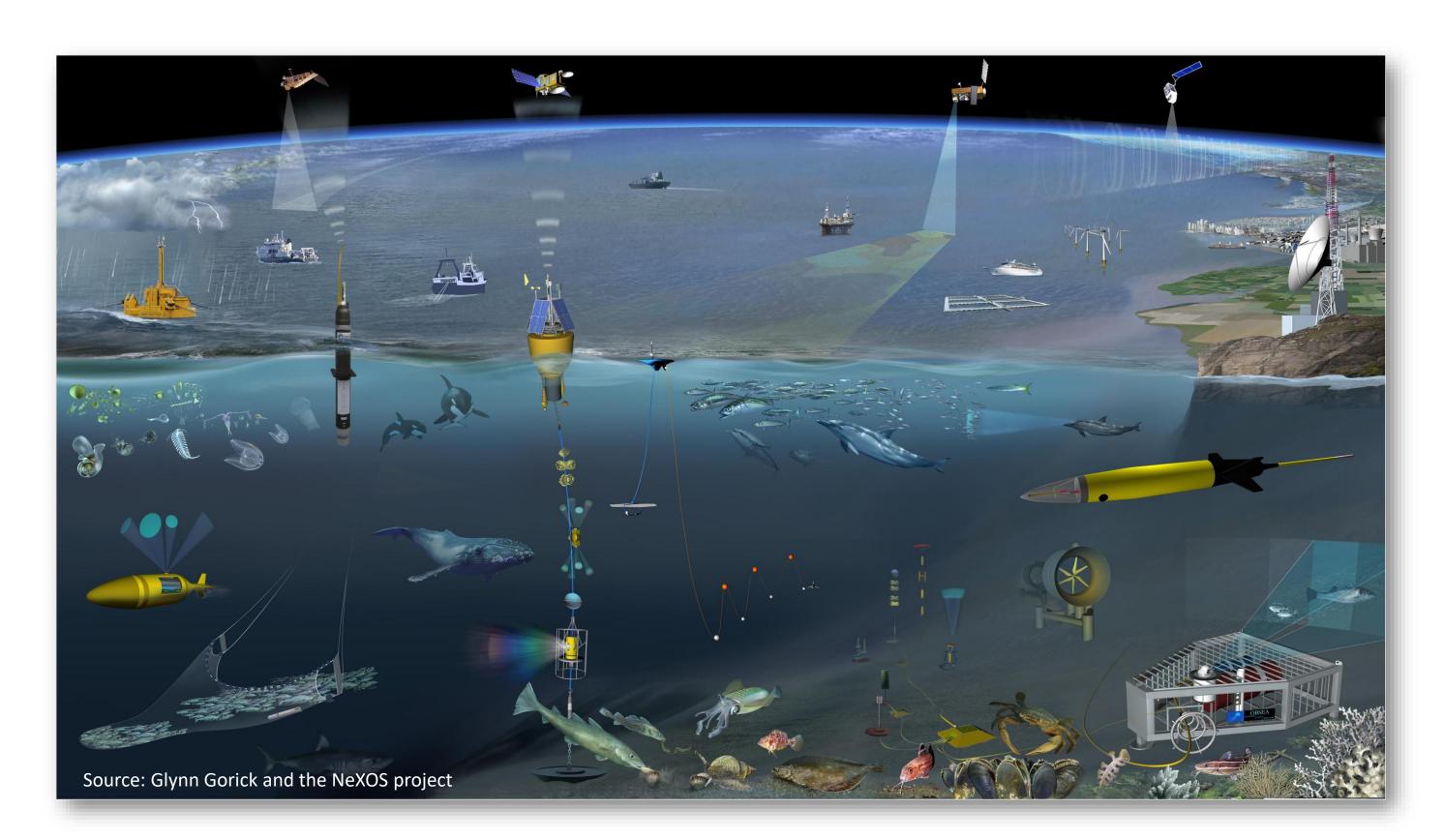
EOOS / L4M Consulting Ltd.



Ocean Observations





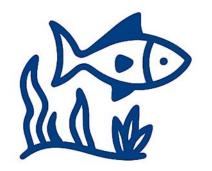




Ocean Observations - Impact



Blue Economy



Fisheries Management

Monitoring fish stocks and habitats



Maritime Navigation

Providing real-time data on ocean conditions



Renewable Energy

Identifying suitable sites for offshore wind and wave energy installations



Coastal Development

Assessing impacts of sea-level rise and erosion

Assessment and Forecasts



Weather Forecasting

Improving the accuracy of weather and storm predictions



Climate Monitoring

Tracking changes in ocean temperature, salinity, and current to understand climate variability



Marine Ecosystem Health

Assessing the state of marine biodiversity and habitats



Early warning systems for natural hazards

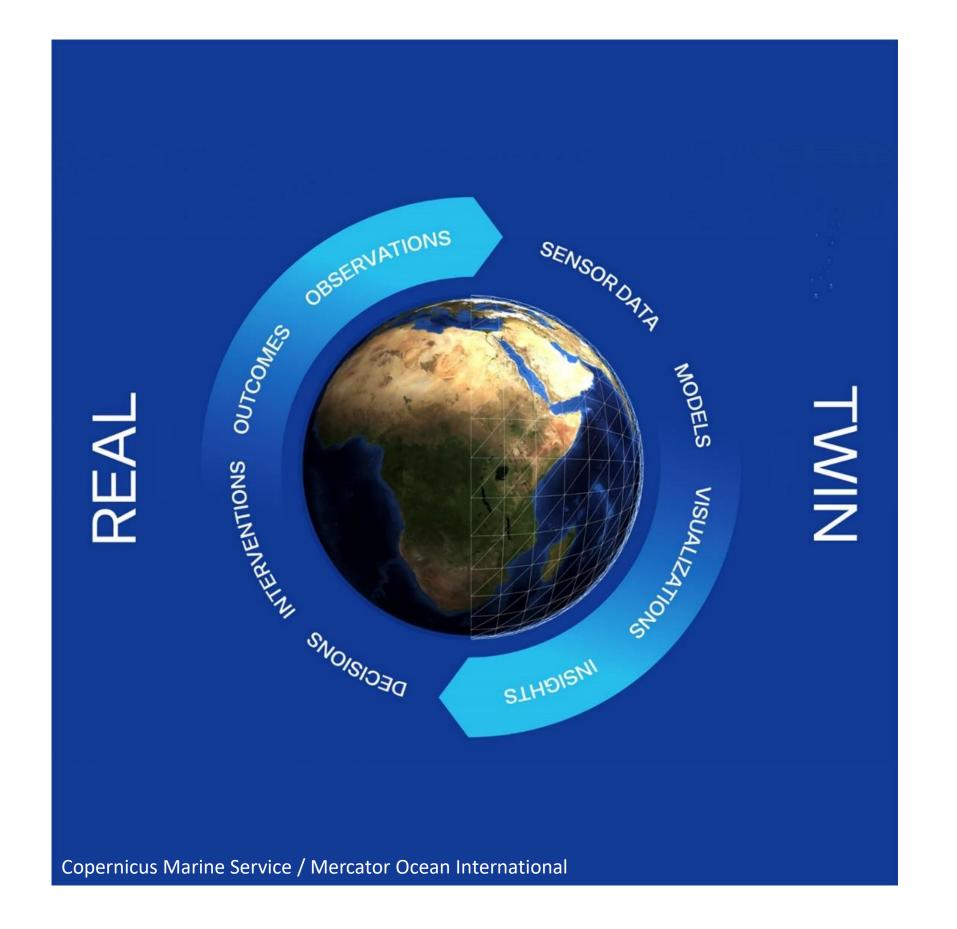
Protect human health



Ocean Observations for DTO





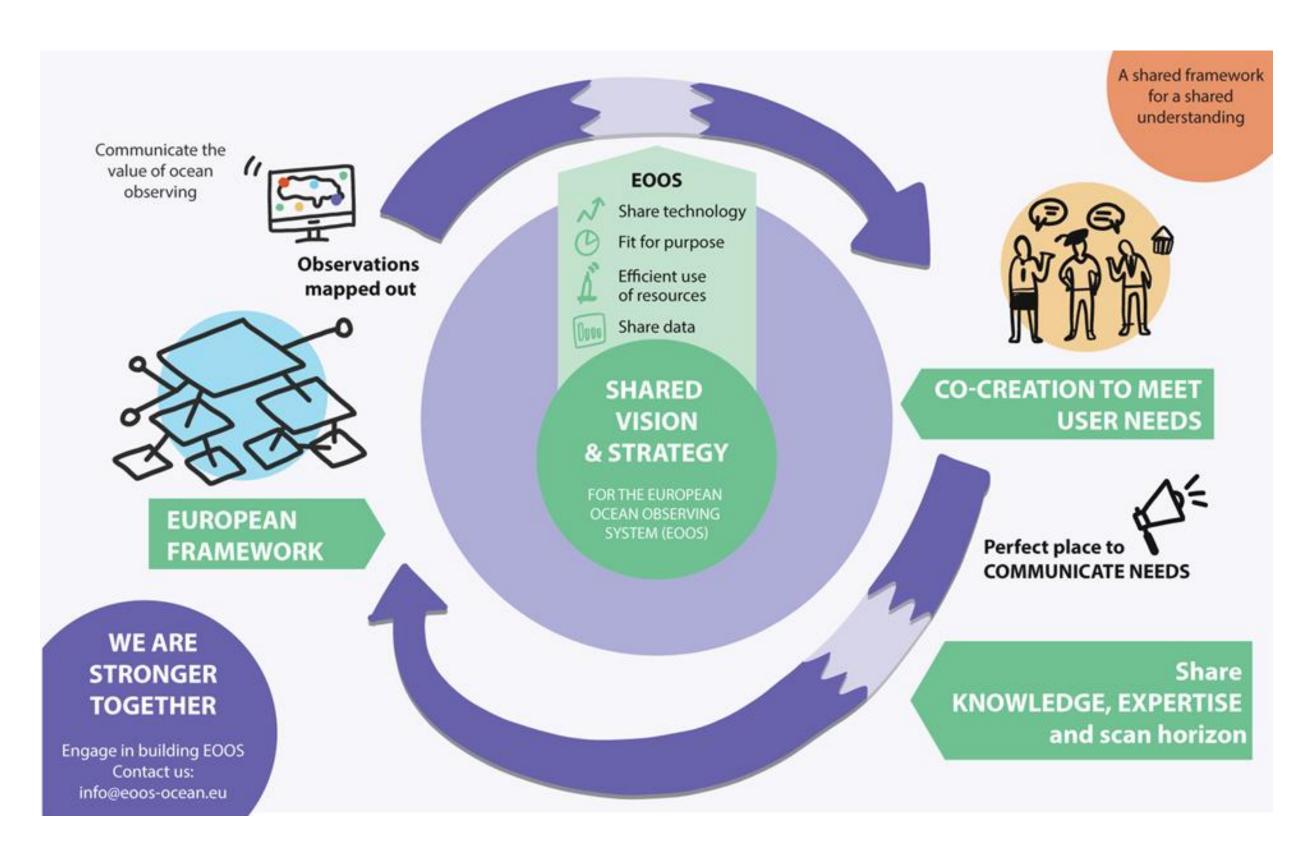




European Ocean Observing System Framework









European Ocean Observing System - EOOS







The EOOS aims to enhance coordination and collaboration in Europe's ocean observing efforts

Better coordinated observing efforts

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Maximise the value and benefit of ocean observations at the national, regional, European and Global levels



SUSTAINED ALIGNMENT OF
NATIONAL EFFORTS AND ACTIVITIES
WILL STRENGTHEN THE OCEAN
OBSERVATION VALUE CHAIN





Towards EOOS Implementation!

"Individually, we are one drop, but together, we are an ocean." Ryunosuke Satoro

https://www.eoos-ocean.eu/



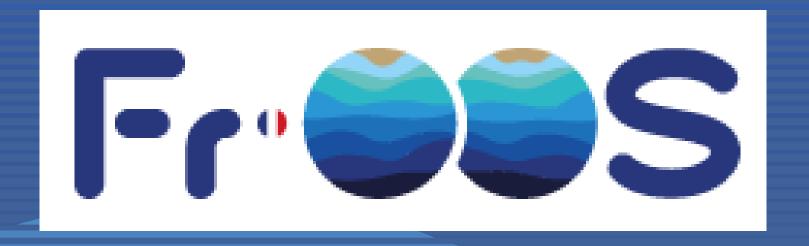












Fabrizio D'Ortenzio

CNRS, FRANCE

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The Fr-OOS executive board The Fr-OOS Community and collegues

Introduction and context

"Observation is the essential foundation of all scientific knowledge »

— Pierre-Simone Laplace

Historically, ocean observation has been a core activity of the French oceanographic research community.

French oceanographers have been — and continue to be — strongly engaged in:

- the collection of in situ data, its long-term storage in high-quality databases, and its subsequent valorization and scientific exploitation;
- building synergies and scientific collaboration with the remote sensing and modelling communities;
- the establishment and consolidation of European Research Infrastructures for marine sciences;
- the participation to the international and global structures of coordination

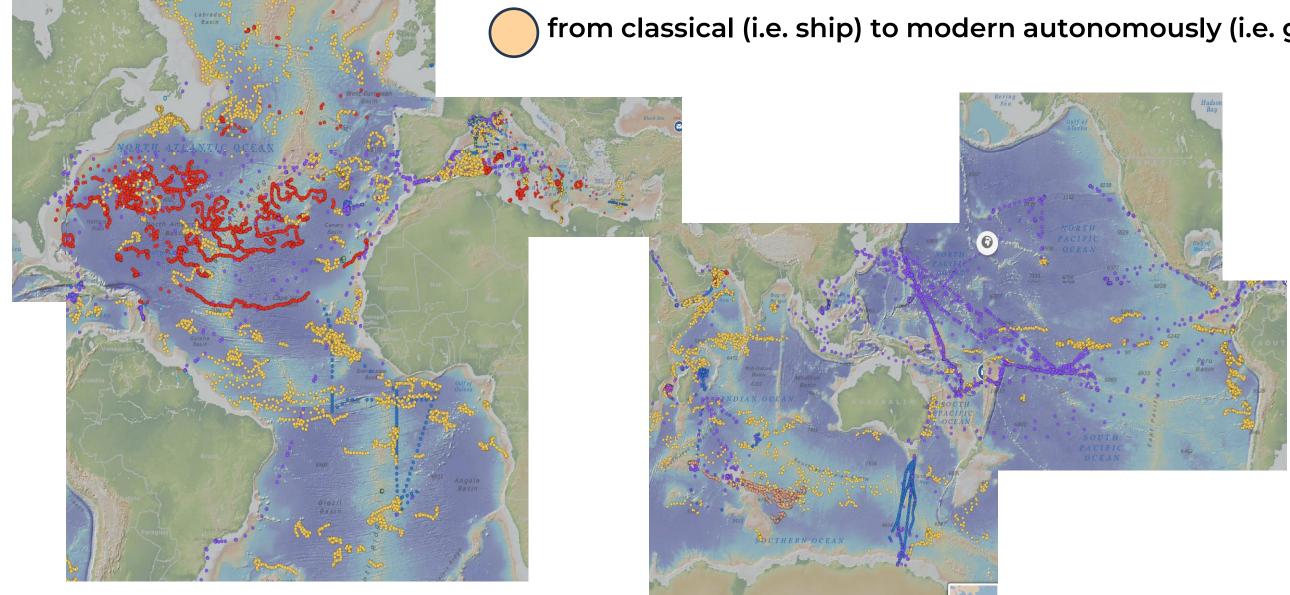




The long term ocean observation in France

The present day French Ocean observation system encompass a wide range of themes/regions/EOVs

- from the open sea to the coastline
- from the surface to the deep sea
- from physical processes to biogeochemistry and biology
- from classical (i.e. ship) to modern autonomously (i.e. gliders) platforms







The French Ocean Observing System was established in 2023 to support this dynamic, strengthen individual components, and promote cross-component interactions.



French node of the Euro-Argo ERIC and Argo international program Coastal and littoral research infrastructure





French node of ERIC EMSO

Open ocean in-situ





Tide gauge network: sea level observations

Meteorologicals buoys





National coastal observatory for in situ sea states

Environmental and biological resources monitoring networks







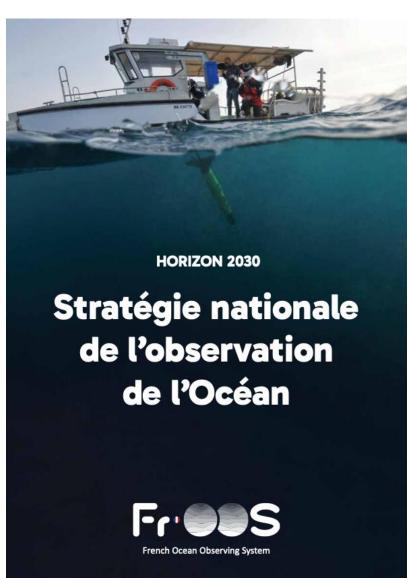
Fr-OOS sets four main ambition:

- STRENGTHEN national observation systems to ensure their scientific and technological excellence, guarantee their relevance to scientific and societal expectations, enhance their resilience to hazards and future changes, and contribute to European and international systems;
- INNOVATE, acting on two levels: first, by continuously adapting existing networks to technological advances and new scientific and societal challenges; second, by expanding their scope of action, whether through integrating new parameters, developing more efficient sampling strategies, or extending coverage to different oceanic regions;
- REINFORCE THE ENTIRE VALUE CHAIN of ocean observation, from data acquisition to transforming data into actionable knowledge for decision-making;
- RAISE AWARENESS OF THE IMPORTANCE OF OCEAN OBSERVATION, both among decision-makers and the general public.



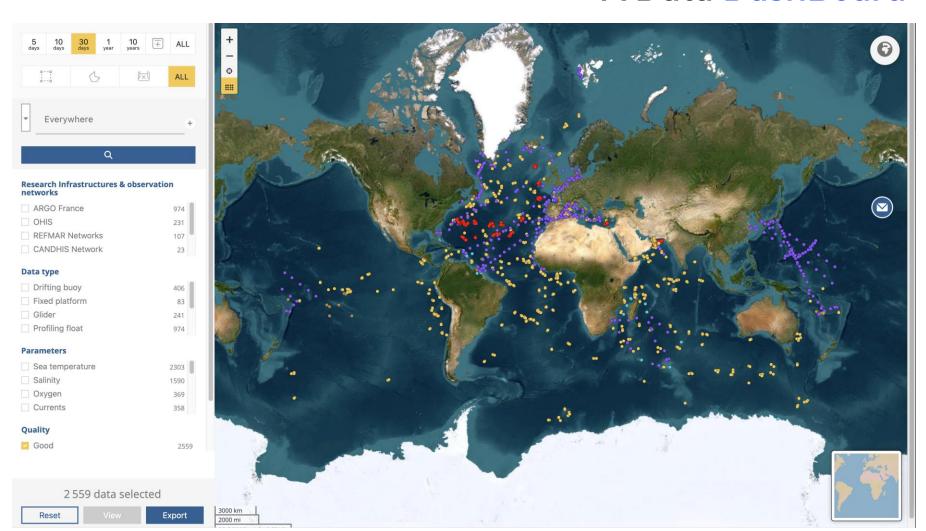


Two important 2025 deliverables:



A document for the national strategy of the ocean observation

A Data DashBoard







Two important events around Fr-OOS @ UNOC:



Observing the Ocean: The role of France with the French Ocean Observing

System (Fr-OOS)

Last week at the Digital Pavillon @ Baleine

Jun 4, 2025 - 04:30 pm - 6:00 PM

INSPIRE Area

Monitoring

Online

Onsite

10th Juin 6pm at Villefranche-sur-mer









Thank for you attention

https://www.froos.fr https://data-selection.odatis-ocean.fr/froos

































Moderated discussion on the coordination of ocean observations in Europe and EOOS is fit for the implementation of the EU Oceans Pact



Inga LIPS

EOOS / L4M Consulting Ltd.



Zoi KONSTANTINOU

DG MARE



Pierre-Yves Le TRAON

Mercator Ocean International

















