Secose Blue-Cloud2026

Workbenches



Workbenches for Essential Ocean Variables (EOVs)

A number of data-intensive **Workbenches for** selected Essential Ocean Variables (EOVs) are being developed and tested in Blue-Cloud 2026. Ocean and Data scientists will implement efficient workflows that allow them to harmonise, validate and qualify large and various in situ data sources, exploiting the blue analytical services available in the **Blue-Cloud Virtual Research** Environment.

The Workbenches

Ecosystem-level EOVs

The Ecosystem Workbench aims to improve the availability, quality, and interoperability of large collections of plankton observations and extrapolated biogeographies. This habitat modeling workflow will generate high-quality interpolated maps of these plankton entities, at the global scale and produce ecosystem-level EOVs.

Eutrophication: clorophyll, nutrients, oxygen

This Workbench will define and implement an efficient production workflow to merge multi-source datasets managed by Copernicus Marine Service, EMODnet Chemistry and the World Ocean Database, together with key EU RIs and build highly qualified EOV datasets for eutrophication variables: chlorophyll, nutrients, oxygen.

Physics: temperature & salinity

This Workbench will implement a cloud-based workflow to generate harmonised, validated and customisable EOV data collections for temperature and salinity, integrating datasets released from different EU and non-EU data infrastructures for the test region of the Mediterranean Sea.

Partners involved





