eosc | Blue-Cloud2026

A federated European FAIR and Open Research Ecosystem for oceans, seas, coastal and inland waters

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Core services: Virtual Research environment

An Open Science platform for collaborative marine research, using a wide variety of datasets and analytical tools, complemented by generic services such as sub-setting, pre-processing, harmonising, publishing and visualisation. The VRE hosts different Virtual Labs and is going to include thematic Workbenches, which users can access with existing credentials in EOSC, the European Open Science Cloud.

The Blue-Cloud Marine Node implements several core capabilities, as defined by the EOSC Federation Handbook, to ensure effective operation and service deliver such as the Catalogue, AAI, the Gateway and more.

Generic services

- Workspace
- RStudio
- JupyterHub
- Galaxy
- CCP services

Data management facilities

- NoSQL Database
- Relational Database
- DD&AS
- Beacon

Marine Thematic Services

Virtual Labs offer data products and analytical tools within the Virtual Research Environment (VRE). These VLabs serve as real-life demonstrators for web-based open science and are available for testing by research communities within the EOSC federation.
The VLabs offer applications for data processing, publishing data results, and managing computation routines. They also provide innovative services in the form of data products and analytical tools, showcasing the added value of web-based open science.

VLabs

- Coastal Ocean observations along Europe
- Coastal currents from observations
- Carbon-Plankton Dynamics
- Marine Environmental Indicators
- Global Fisheries Atlas

Workbenches

- Physics: temperature & salinity
- Eutrophication: chlorophyll, nutrients, oxygen
- Ecosystem-level EOVs

Blue-Cloud 2026 Consortium

PROJECT COORDINATION OFFICE

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