

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

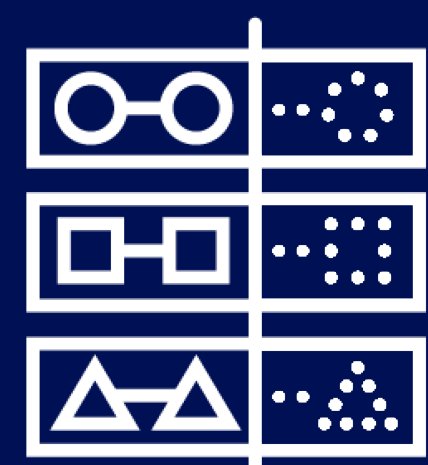


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Data Discovery & Access Service (DD&AS)

An easy and FAIR service for discovering and retrieving multi-disciplinary data sets and data products managed and provided by leading Blue Data Infrastructures. The Federation facilitates sharing of datasets as input for analytical and visualisation services and applications, that are hosted and further developed in the Blue-Cloud Virtual Research Environment.



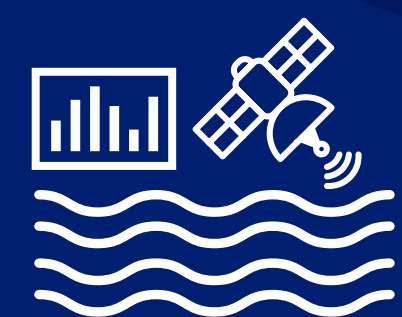
Virtual Research Environment (VRE)

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. Multi-disciplinary datasets retrieved from the Blue-Cloud DD&AS can be exploited in the VRE. All methods and services in the Catalogue are exchanged with the EOSC Portal Catalogue & Marketplace.

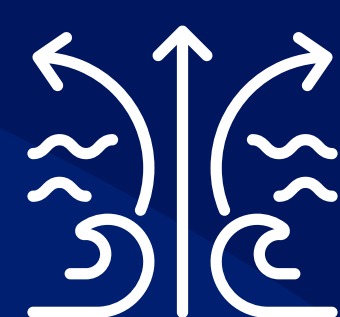


Virtual Labs & Essential Ocean Variables Workbenches

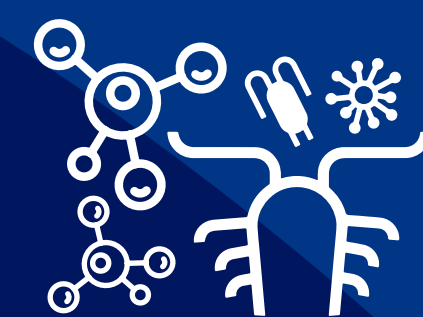
Researchers work closely together with the Blue-Cloud 2026 technical team to describe 5 Virtual Lab workflows and technical requirements, in order to implement them in the Blue-Cloud VRE and further test its capabilities on specific topics.



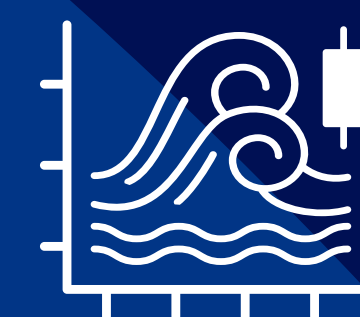
Coastal Ocean observations along Europe



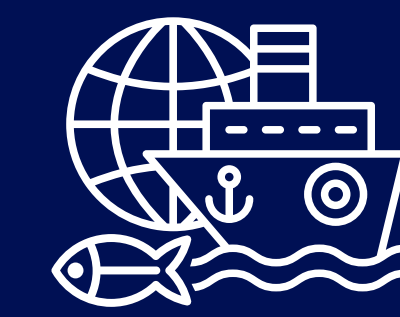
Coastal currents from observations



Carbon-Plankton Dynamics

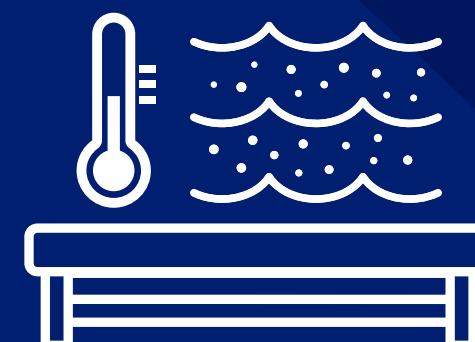


Marine Environmental Indicators



Global Fisheries Atlas

In addition, Blue-Cloud is working on three big data processing Workbenches. These will facilitate the generation of validated and harmonised data collections for selected Essential Ocean Variables (EOV) for physics, chemistry and ecosystems.



Physics: temperature & salinity



Eutrophication: chlorophyll, nutrients, oxygen



Ecosystem-level EOVS

Blue-Cloud 2026 Consortium

PROJECT COORDINATION OFFICE

