Blue-Cloud

Piloting innovative services for Marine Research & the Blue Economy

Blue-Cloud is the flagship H2020 project that aims at piloting a cyber platform bringing together and providing access to:

1) Multidisciplinary data from observations and models.
2) Analytical tools.
3) Computing facilities.

Which combined are essential to support research to better understand and manage the many aspects of ocean sustainability.

Blue-Cloud in numbers

- Timing: **36 Months** (start October 2019)
- Budget: **5.9 Million Euro**
- Partnership: **20 partners**
- 10 blue data management infrastructures: **SeaDataNet, EMODnet, EurOBIS, Euro-Argo, ELIXIR-ENA, EuroBioImaging, COPERNICUS CMEMS, COPERNICUS C3S, ICOS-Marine and EcoTaxa**
- 3 data processing e-infrastructures: **DIAS-WekEO, EUDAT, D4Science (incl BlueBRIDGE VRE's)**

Blue-Cloud Offer

Virtual Research Environment

Technical Architecture Interface with EOSC

Research Object Publishing Service

Data Discovery and Access Service

Federation of +13 infrastructures for data provision and processing

Blue-Cloud Data Discovery and Access service

ZOO- AND PHYTOPLANKTON EOV PRODUCTS
Producing phytoplankton, zooplankton and nutrients EOV products which contribute to improve knowledge and quantitatively reduce uncertainty regarding the present state of the marine plankton ecosystems and their response to ongoing and future climate change.
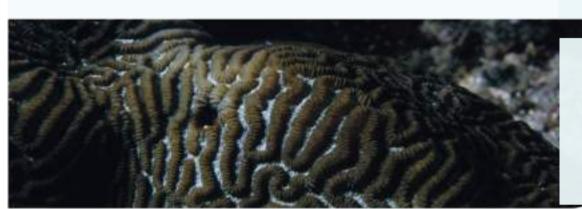
PLANKTON GENOMICS
Enabling scientific exploration of plankton, including correlating plankton concentration and diversity with local environmental variables, deriving known and new indices of ecosystem health, and predicting the distribution of these variables in space and time.

MARINE ENVIRONMENTAL INDICATORS
Calculating and distributing online information and indicators on the environmental quality of the Mediterranean Sea (and the North-East Atlantic at a later stage) which will serve intermediate users such as environmental protection agencies.

FISH, A MATTER OF SCALES
Providing insight in global fisheries issues and supporting capacity building by delivering data services in support of SDG14.4.1 analysis and training.

AQUACULTURE MONITOR
Developing a monitoring tool for aquaculture to support local and national governments that lack capacity to implement a national monitoring tool.

The concept of the Blue-Cloud framework will be piloted via 5 demonstrators...

...and will be consolidated via a wide open consultation with the community that will be engaged in the co-design of the community-oriented Roadmap for the future strategic development of the Blue-Cloud by 2030.

Partnership behind Blue-Cloud
Federating key marine data and e-infrastructure initiatives within and beyond the partnership

Technology partners	Pilot Demonstrators	Communications, Policy, training & liaison with other initiatives

Interested in contributing to the Blue-Cloud Roadmap? Contact us at info@blue-cloud.org
Join the Community   www.blue-cloud.org   @BlueCloudEU   company/blue-cloud-org