






Let's talk about Marine Biodiversity

 9 June 2025 – 10:30 am - 1:30 pm CEST

 Inspire Area – European Digital Ocean Pavilion

 United Nations Ocean Conference 2025

Abstract

Blue-Cloud Project

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Blue-Cloud 2026 project is developing three data-intensive Workbenches (WB) for physical (Temperature, Salinity), eutrophication (Nutrients, Chlorophyll, Oxygen) and ecosystem-level (Plankton biomass, diversity) Essential Ocean Variables (EOV) and Essential Biodiversity variables (EBV). Leveraging on the Blue-Cloud Open Science platform, enhanced discovery and access services and relevant cloud-computing resources, these Workbenches integrate the latest data collections from major European and global Blue Data Infrastructures to create consistent, harmonized, highly-qualified EOV & EBV datasets through cloud-based analytical pipelines. The resulting EOV collections are crucial for assessing the state of the marine environment and for the initialisation, assimilation, and validation of model simulations and applications expected within the European Digital Twin of the Ocean (EU DTO). This session will present the method and services developed within the project to develop the Workbenches and demonstrate how these workflows can speed-up the data value chain and benefit ocean science to advance toward effective decision support, informed policy, and blue growth

