



## 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

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### Abstract

# Blue-Cloud 2026: An Open Science Platform for Collaborative Marine Research

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As global marine ecosystems face mounting pressures from climate change, pollution, and overexploitation, the need for integrated, data-driven solutions has never been greater. *Blue-Cloud 2026* builds on the success of the original Blue-Cloud project, providing a trusted virtual research environment that federates multidisciplinary marine data, computing resources, and analytical tools across European and global infrastructures. At the heart of the initiative is a commitment to FAIR (Findable, Accessible, Interoperable, and Reusable) principles, enabling seamless collaboration across scientific, policy, and societal domains.

This session highlights how Blue-Cloud 2026 empowers the marine biodiversity community through open science practices, supporting monitoring, conservation, and sustainable use of ocean life. We showcase real-world applications—from AI-powered species distribution models to harmonized genomic and ecological datasets—co-developed with stakeholders to inform marine spatial planning and biodiversity protection. In alignment with the UN Decade of Ocean Science and the Global Biodiversity Framework, Blue-Cloud 2026 exemplifies how digital transformation can support resilient ocean governance and accelerate progress toward SDG 14 and beyond.

