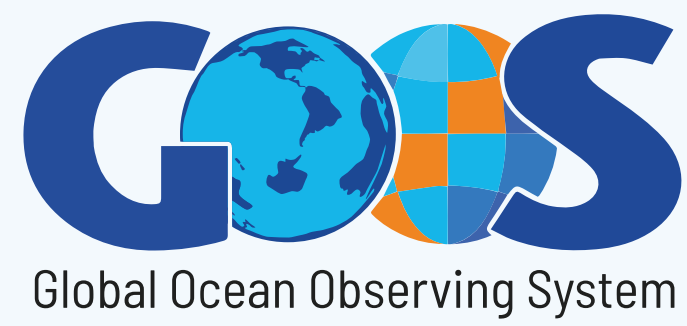




# Biology & Ecosystem Essential Ocean Variables (BioEco EOVs)

BioEco EOVs were identified by the **Global Ocean Observing System (GOOS)** to meet needs for understanding and forecasting marine life. They provide a framework for coordinating ocean observations, ensuring globally comparable and combinable data.

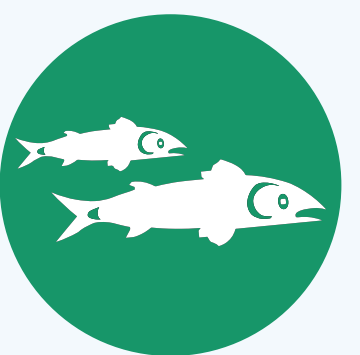





**Phytoplankton**  
Diversity and biomass




**Zooplankton**  
Diversity and biomass




**Fish**  
Abundance and distribution




**Sea Turtles**  
Abundance and distribution




**SeaBirds**  
Abundance and distribution




**Marine mammal**  
Abundance and distribution




**Ocean sound**  
Cross-disciplinary




**Coral**  
Cover and composition



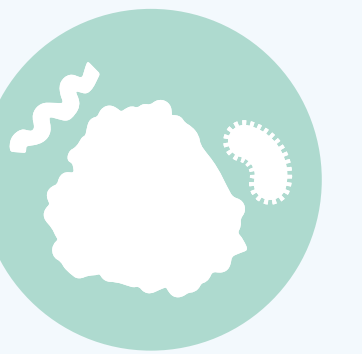
**Seagrass**  
Cover and composition




**Macroalgal canopy**  
Cover and composition



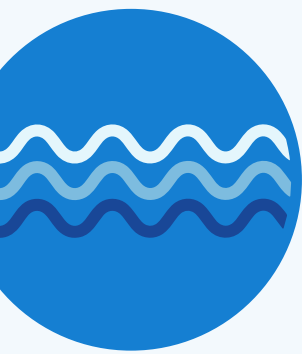
**Mangrove**  
Cover and composition



**Microbe**  
Diversity and biomass (Pilot)

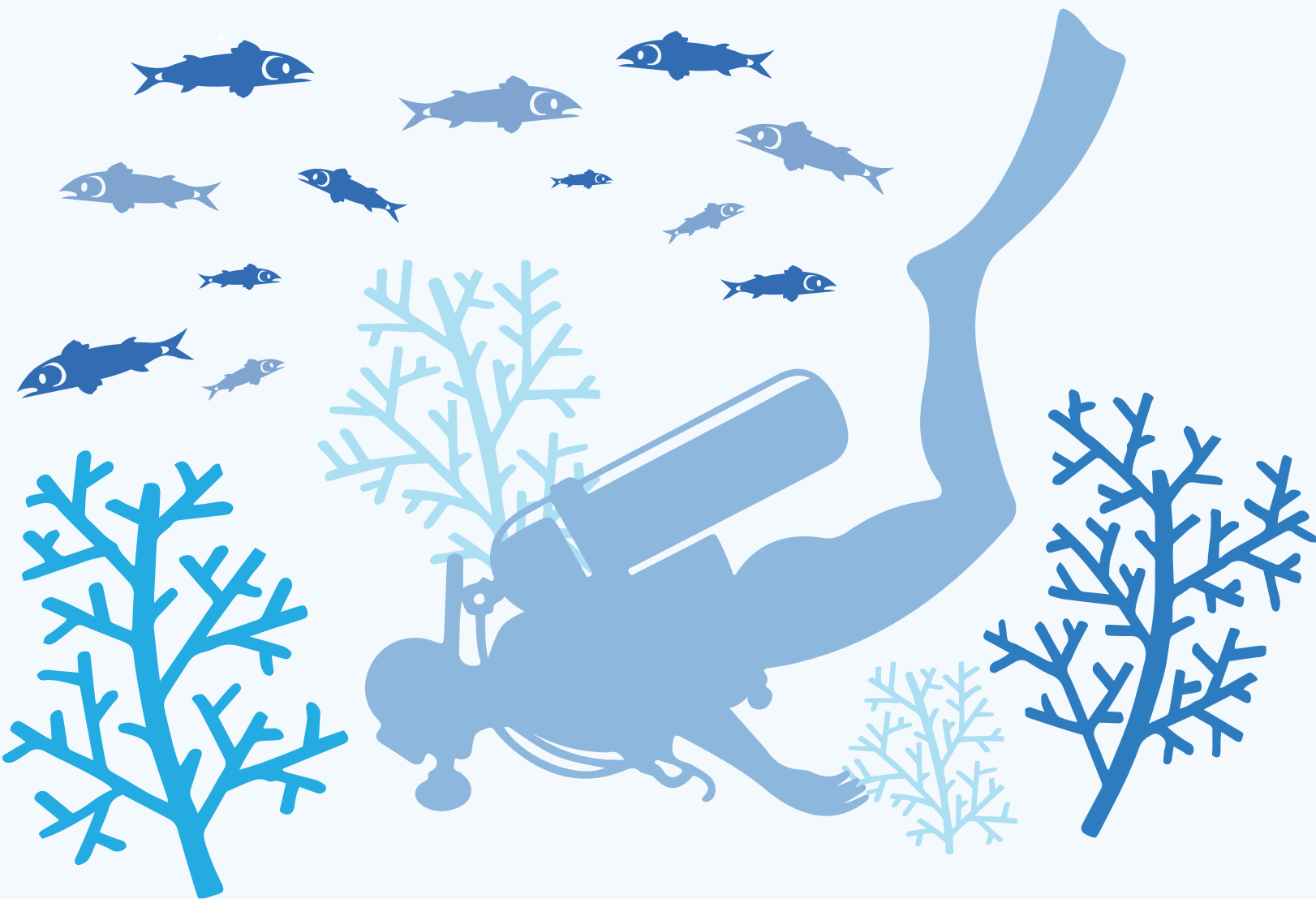


**Benthic invertebrates**  
Abundance and distribution (Pilot)



**Ocean colour**  
Cross-disciplinary

**Good, consistent data is fundamental for making smart decisions that keep our oceans healthy and thriving.** When ocean observations are comparable, accessible, collected with care, and with accepted protocols, they can enable effective action, investment, and decision-making across ocean management, conservation, industry, and more, helping us sustainably manage our marine resources.



We have the science, the resources, and the information, but we need standardised, globally comparable data to make it useful for everyone.

**Your data is not just a byproduct of your research – it's the heart of it. Standardise and share your data to ensure it can have a real impact!**

Standardising data for EOVs is a global effort involving many dedicated organisations.

To learn more about EOVs and to contribute, please visit the GOOS website: [www.goosocean.org](http://www.goosocean.org)

Developed and designed by



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