













A globally-coordinated and sustained ocean observing system of scientifically and societally relevant biological essential ocean variables is urgently needed to systematically asses the status of the ocean's biodiversity and ecosystems. Tracking how ocean life is responding to increased human use and climate change will empower the global community to predict, mitigate, and manage our ocean.

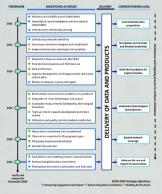
Biological Essential Ocean Variables

Essential Ocean Variables (EOVs) provide one approach to coordinating the observing community. They contribute to the marine biodiversity framework of Essential Biodiversity Variables and deliver to the Clobal Climate Observing System as Essential Climate Variables (ECVs).

GOOS recommends the monitoring of ten biological essential ocean variables to document trends in diversity, distribution and abundance of marine life globally.



Implementation in the next decade: a roadmap



Biological observing networks

Observing networks are the building blocks of a comprehensive observing system. Observing networks need to be effectively observing system. Observing networks need to be effectively observed to be effectively observed to be expensively observed to be expensively observed to the observed of the expensive observed of the observed of t

Fully contributing observing networks will have these attributes

-	management needs.
	Spatial scale – serves local and national needs but contributes (or aspires to contribute) to global operational system, including regular reporting to support globally relevant indicators
	Sustainability - support produce information on transferous time and are intended to

repeated in the future (Historic data can also be useful and should be archived).

Best practice – network recognizes global accepted standards from data collection to end-ue

FAIR and open access data standards – network has clear mechanisms for data attribution and provenance leading to open data, has documented SOPs used for data collection, an adequate metadata to support interoperability, data aggregation and reuse.

















