



Ocean Observing System Report Card 2022

GOOS Observations Coordination Group

Encouraging the development of a truly integrated, sustained, innovative, globally implemented and coordinated Global Ocean Observing System.



84 countries

13 ocean observing networks

8,765 in situ operational platforms

More than 100,000 daily observations delivering an accessible, safe and productive ocean



Over the past year the GOOS community has worked to restore pre-pandemic levels of in situ observations. Most activities are returning to normal and continued automation is supporting increased data delivery. Continued and new targeted investment in ocean observing is vital to ensure we characterize how our ocean is changing, what changes are likely in the future, and how we can mitigate and adapt to our changing earth system.

CLIMATE

OCEAN CARBON SOLUTION
GOOS has developed the capability to observe some aspects of global carbon. However, the overall carbon observing system is inadequate to meet the growing need for ocean carbon information. GOOS has started dialogues to address these needs.

OPERATIONAL SERVICES

COASTAL INUNDATION
GOOS observations are essential contributions to advance weather and flood warnings, enabling meteorological & hydrological services to provide better guidance with enough lead-time to coastal communities.

OCEAN HEALTH

MARINE FOOD WEB BASE
An important goal of GOOS is to improve forecasting of the ecosystem services provided by phytoplankton that support the Blue Economy, and this can only be achieved through gathering continued global phytoplankton observations.

DEVELOPING PARTNERSHIPS & CAPACITIES

The involvement of new communities - citizens, sailors, divers, and businesses – in ocean observations through the UN Ocean Decade Odyssey, and the development of user capacities and ocean literacy, are important ways we can connect people with the ocean, improve the observing system’s fitness for purpose, and get more ocean data.

