



The Global Ocean Observing System



GOOS interaction with Ocean Predict

Wednesday 8 November 2023

Dr Joanna Post, GOOS Director

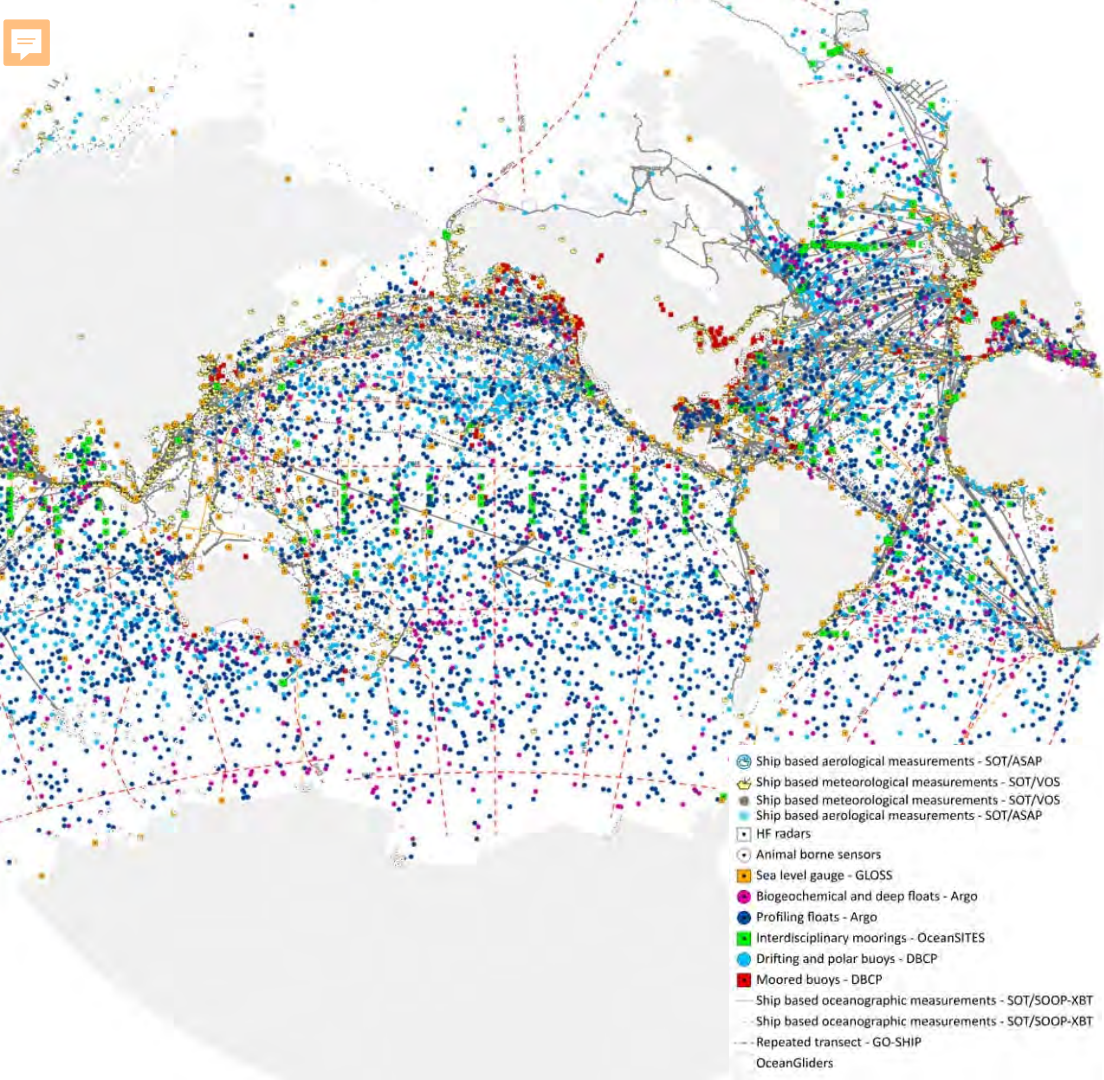
Vision

A truly global ocean observing system that delivers the essential information needed for our sustainable development, safety, wellbeing and prosperity

Mission

To lead the ocean observing community and create the partnerships to grow an integrated, responsive and sustained observing system





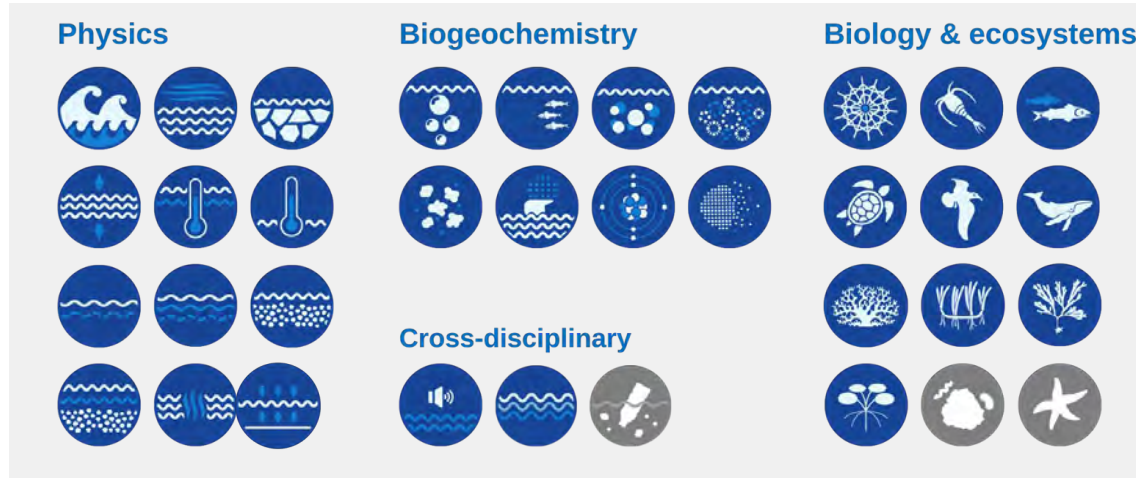
GOOS Today


- 84 countries, 8,700+ observing platforms, 13 global networks
- More than 100,000 observations per day - delivering an accessible, safe and productive ocean
- Global observing networks, e.g. Argo, GO-SHIP, Drifting Buoys, plus emerging networks, e.g., OceanGliders, HF Radar.

“The weather forecasting systems will run off the rails if they don’t have the surface pressure information over the ocean to constrain them” - Lars Peter Riishojgaard, Director of the Earth System Branch WMO



35 Essential Ocean Variables (EOVs)



 Convention on Biological Diversity
Post-2020 Biodiversity Framework




SENDAI FRAMEWORK
FOR DISASTER RISK REDUCTION 2015-2030



United Nations
Climate Change



International Legally Binding Instrument on Plastic Pollution 2024



THE LAW OF THE SEA

+ Biodiversity Beyond National Jurisdiction



Key Ocean Management Domains



Coastal zone management and adaptation



Marine Spatial Planning/
Sustainable ocean economy



BBNJ,
Marine Protected Areas, LMEs



Management of fisheries and aquaculture



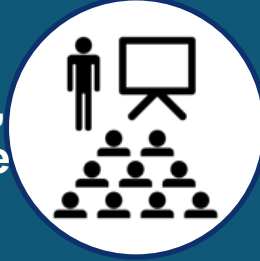
Adaptation to and mitigation of climate change
NDCs



Development of national R&D strategies & ocean policies



Real-time oceanographic, weather/climate services



Regional and national capacity development



Early warning systems

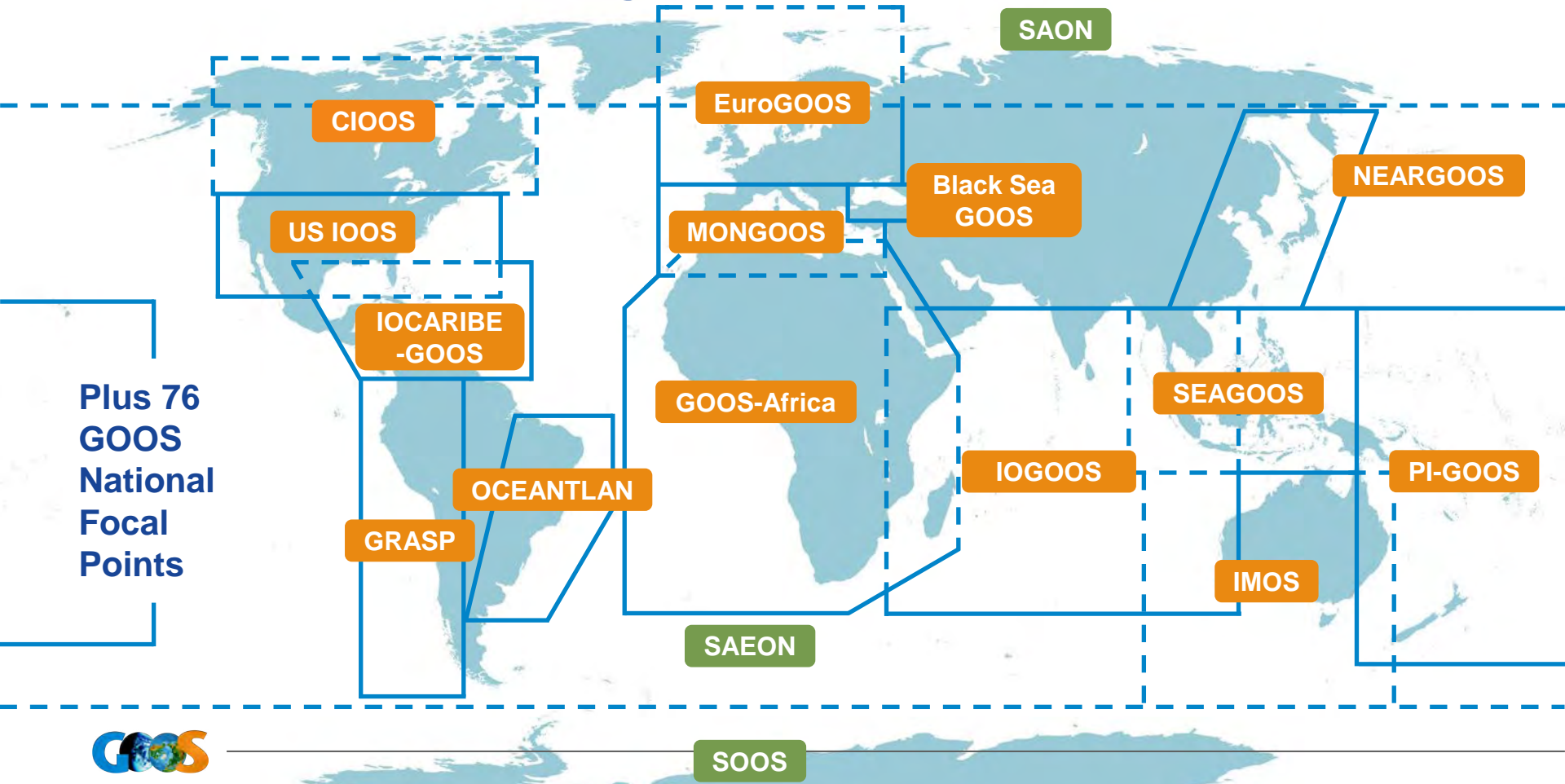


Providing global coordination





GOOS : Regional & National Alliances

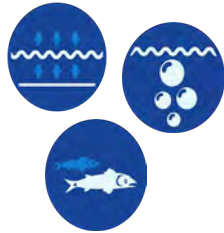




System Integration & Delivery

Structure and Standards

- Essential Ocean Variables (EOVs)
- Best Practices



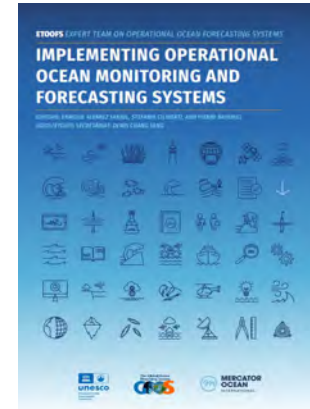
Open Data

- Data Implementation strategy
- [BioEco Portal](#)



Forecasting

- Operational Ocean Forecasting





Deepening Engagement & Impact



Implementing GOOS Communication Plan

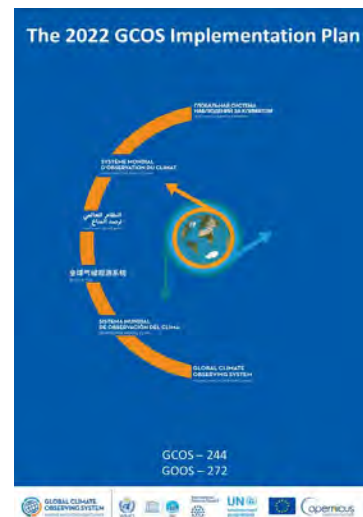


Advocacy within United Nations



2020 UN BIODIVERSITY CONFERENCE
COP 15 - CP/MOP10-NP/MOP4
Ecological Civilization-Building a Shared Future for All Life on Earth
KUNMING - MONTREAL

Strengthened partnerships

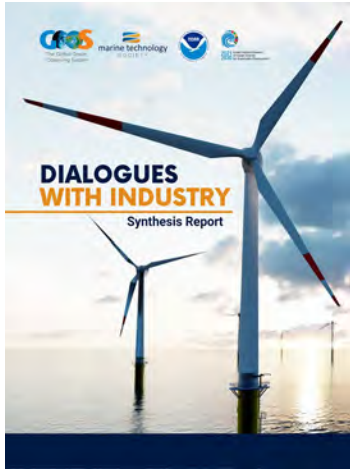




Building for the Future



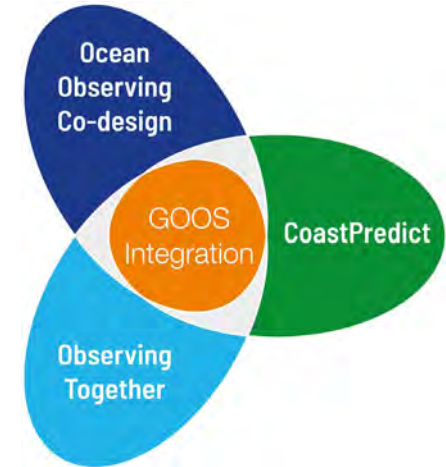
Dialogues with Industry



Marine Debris Observing System



Transformation for the UN Decade





Transformation in the Decade




Ocean Observing Co-Design will develop a more **user-focused co-design process** to evolve a truly **integrated, responsive ocean observing system**.



CoastPredict will revolutionise Global Coastal Ocean observing and forecasting, offering **open and free access** to coastal information and predictions.



 **Ocean Observing Co-Design**
by The Global Ocean Observing System

 **CoastPredict**
with The Global Ocean Observing System

GOOS Steering Committee April 2023

Focus areas for the next period:

- Communications and advocacy
- Regional coordination
- UN Ocean Decade projects
- Evolving GOOS Governance - key 2023
- Strengthening GOOS core support is absolutely vital

Plus, updated NFP ToRs approved





National Focal Point Role



Benefits to Nations

Strengthen planning for a national ocean observing system that is fit-for-purpose, integrated and sustained

Increase opportunities for national activities to align nationally, regionally, and globally, lowering cost, increasing efficiency

Visibility of national ocean observing contribution

Communicate with GOOS around national needs



Benefits to GOOS

National advocates for economic and socioeconomic value of sustained ocean observations

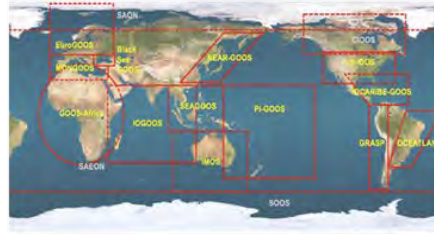
Strengthen national and global ocean observing systems through learning and sharing

Increase ocean observing system efficiency and scope through regional cooperation

Strengthen through alignment of priorities, understanding national needs, towards fit for purpose system



GOOS GRA and NFP – Opportunities



Benefits of Ocean Observations Catalogue Development

As a web-based catalogue, the BOOC will provide a valuable resource for the ocean observation, measurement and forecasting community illustrating the ways in which different types of ocean information delivers benefits in a region or for a type of use.

Revitalization of GRAs

PI-GOOS

IOCARIBE-GOOS

GOOS Africa

Enhancing of GRAs

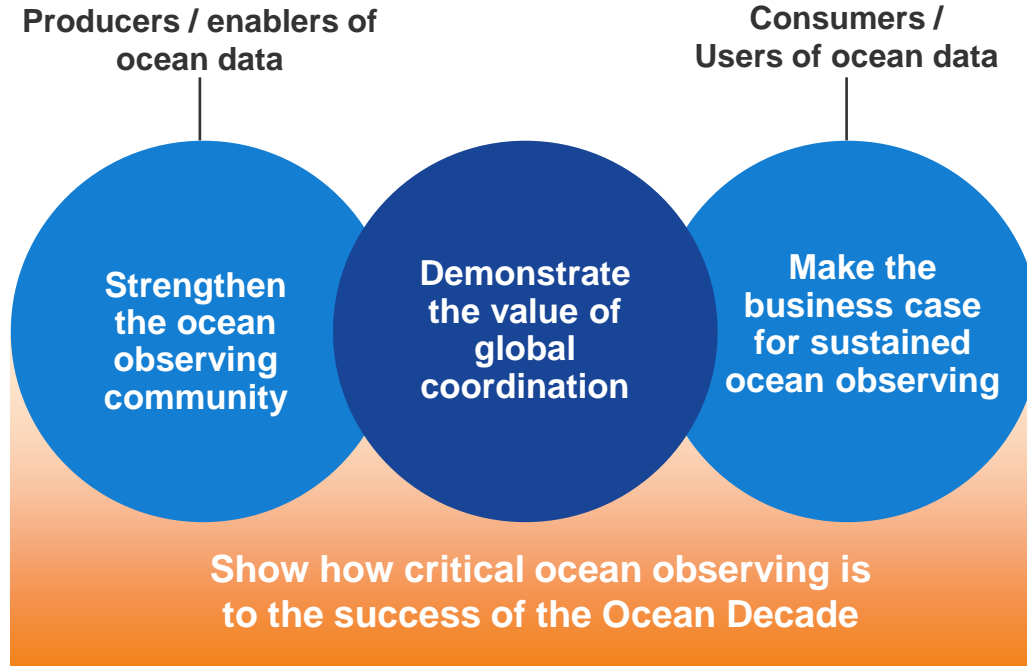
GOOS Regional Alliance Capability Assessment

Update GOOS Regional Policy

Advance Future Publications on Societal Benefits of GRAs paper



GOOS communications objectives





GOOS/OceanOPS Report Card

Annual report evaluating the current status of the Global Ocean Observing System.

- Focuses on how an integrated ocean observing system adds value to society across the three GOOS Delivery areas: climate, operational services, and ocean health
- Online version of the Report Card 2023: <https://www.ocean-ops.org/reportcard2023/>
- PDF version: <https://www.ocean-ops.org/reportcard2023/reportcard2023.pdf>





The Global Ocean Observing System

Thank you

goosocean.org

