

The Global Ocean Observing System



Session 11

5 Years into the strategy what next?

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Thirteenth GOOS Steering Committee Meeting [SC-13]

Barcelona 13th-16th April 2024

Ocean Sciences 2024 - Feb 2024

Town Hall

5 Years into the strategy what next?

OSM24 Townhall

GOOS 5 Years in, what next?

- Well attended, 80-100 people
- Slido and discussion

Participant survey (1/4)

Have you heard of GOOS before?

093

Never heard of GOOS before today

4 %

Heard of GOOS but not sure what it does

11 %

Fairly familiar with GOOS

24 %

Yes, I know of GOOS's work

61 %



Participant survey (2/4)

Do you feel the impact of GOOS work? If so, how?

(1/2)

093

Making ocean observing visible

48 %

Setting frameworks and standards

49 %

Supporting and coordinating ocean observing

60 %

Through Essential Ocean Variables

48 %

Through observing networks

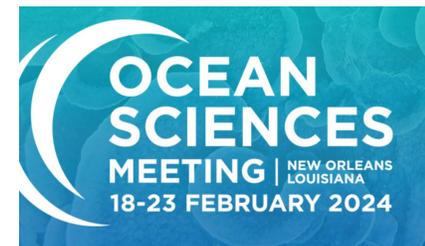
56 %

Through regional and national systems

30 %

I do not feel the impact of GOOS work

4 %



OSM24 Townhall

Comments

- GOOS has made **great strides forward**
- Not yet as successful in making the case for **sustained and operational ocean observing**
- Seen as primarily science, **make the connection to operational services** weather/met services clear – to highlight that GOOS is operational.
- **Global scale to coastal scale, seamless** and needs to be operational
- **Data accessibility, a real problem**, especially for the global south, data management and accessibility rather weak,
- GOOS not coupled enough with **satellite community** - make a core action.
- Gap between GOOS and **fishers/fisheries management** - FAO not there as a partner
- **First nations** represented in GOOS
- GOOS needs to **gear up for optimisation**, should have a system that tells us where the gaps are



2030

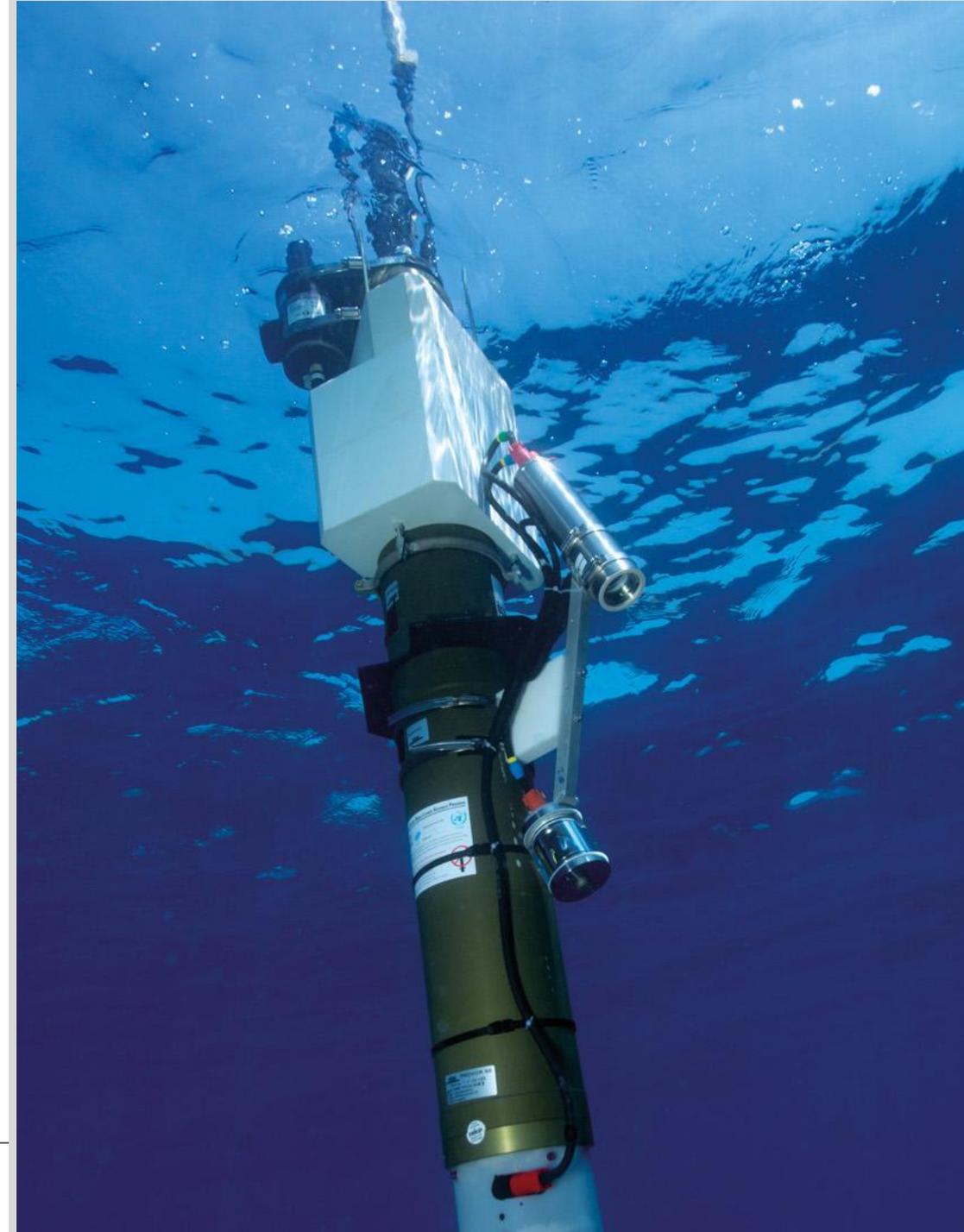
Data. Clarity data delivery, work with partners, access.

Regions. Polar, pacific, less developed countries, southern hemisphere. Open ocean to coast - seamless, deep.

Operational. Highlight operational nature - move more operational, standards, optimisation, linked to sustained funding.

New partners. Satellite, FAO, first nations.

Ensure impact.



Ocean Decade SDGs





2021 United Nations Decade
2030 of Ocean Science
for Sustainable Development

The Ocean Decade

Challenge 7 Whitepaper

- Improve global observation capabilities
- Improve translation of data into information
- Technology and innovation will be a pillar
- New economic thinking is critical
- Co-design and partnership are key
- Operational approach and cultural change
- Expanded, capable, and diversified workforce underpins success

Vision 2030 White Paper

Challenge 7

Expand the Global Ocean Observing Systems

Version 1.0 - April 2024



unesco

Intergovernmental
Oceanographic
Commission

— DCO – Ocean Observing

The Data Coordination Office (DCO) for Ocean Observing unites a community of 11 Programmes and 91 Projects working collaboratively with the GOOS (the Global Ocean Observing System) to expand, revolutionise and operationalize a truly inclusive ocean observing system, where both public and private sector entities collaborate to deliver tangible societal benefits.

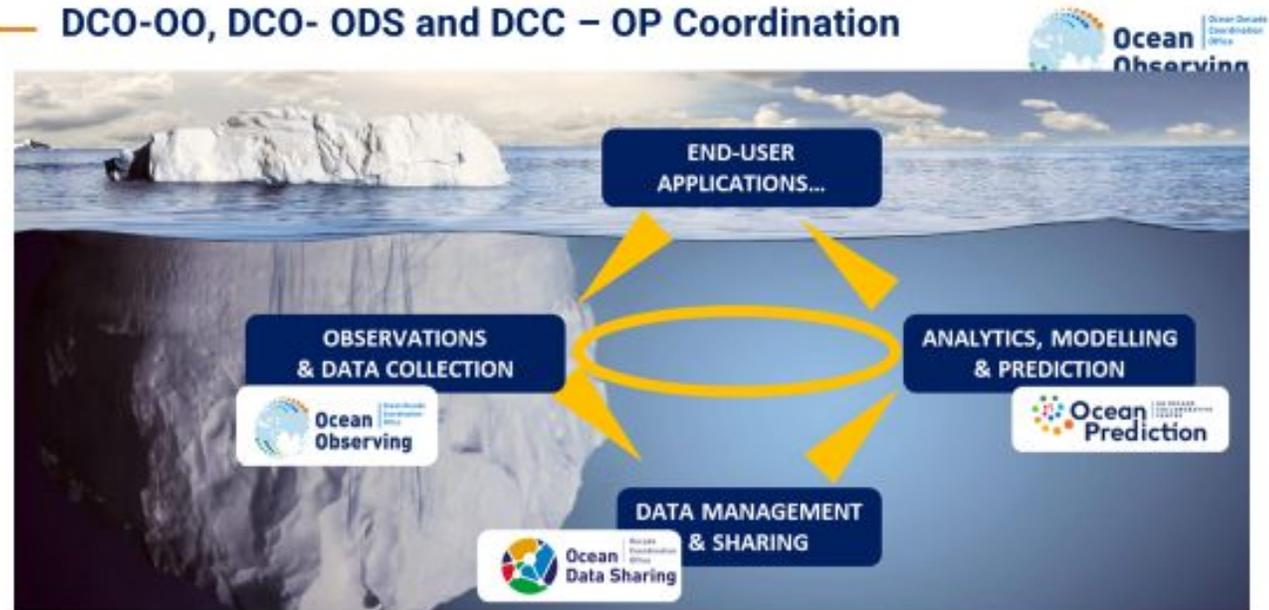


— DCO – Ocean Observing

Digital Ocean Data Ecosystem

- work towards the implementation of a FAIR ocean data digital ecosystem
 - ✓ Enable scientists to find & access data
 - ✓ Support for decision makers to make informed choices
 - ✓ Empower the “Blue Economy”
 - ✓ Highlight the plumbing

— DCO-OO, DCO- ODS and DCC – OP Coordination



GOOS in the Decade

- **CoastPredict**
 - Open ocean to coast, new funding, new tech, cost efficient tech, new industry partnerships, SIDS, Africa, southern hemisphere, obs-modelling, user impact, satellite, AI, cloud
- **Co-Design**
 - Climate action (and biodiversity), new funding, obs-modelling, user impact, new infrastructure, new tech, SIDS, Africa
- **DCO + 11 programmes**
 - Digital ecosystem, new industry contacts, finance



At the heart of
the Ocean Decade



Challenge 7: "Expand the Global Ocean Observing System"

The goal of Challenge 7 is to deliver an expanded, operational, comprehensive, and resourced system that captures the necessary oceanic data to address societal needs, sustain ocean health within a blue economy, and facilitate informed decision-making and advances for science, society and business.

Discover the progress on Challenge 7 at Session 3 of the UN Ocean Decade Conference 2024!



11 Ocean observing programmes under the Ocean Decade Coordination Office for Ocean Observing

91 Projects and 5 Contributions with the vision to enable a truly inclusive and integrated ocean observing system that can predict climate, forecast weather, monitor, and manage ocean health and offer real-time services for sustainable development.



3 GOOS Ocean Decade programmes:

Ocean Observing Co-Design

Creating the partnerships, process, and infrastructure to evolve ocean observing, co-designed with key stakeholders to deliver the data we need for the future we want.

CoastPredict

Revolutionising Global Coastal Ocean observing and forecasting, co-designing the needed infrastructure and offering open and free access to coastal information.

Observing Together

Transforming ocean data access and availability by connecting community and national initiatives to the global system, going further to make every observation count.



The Global Ocean
Observing System



Intergovernmental
Oceanographic
Commission



WORLD
METEOROLOGICAL
ORGANIZATION



United Nations
Environment Programme



International
Science Council

WMO



Change/ambition



Global Greenhouse Gas Watch

Carbon budget
Climate action



UN Early Warning for All

Tropical Cyclones
Storm surge
Tsunami



Systematic observations Financing Facility

New economic thinking

Biodiversity - BBNJ, CBD

Fisheries - FAO

5 Years into the strategy what next?



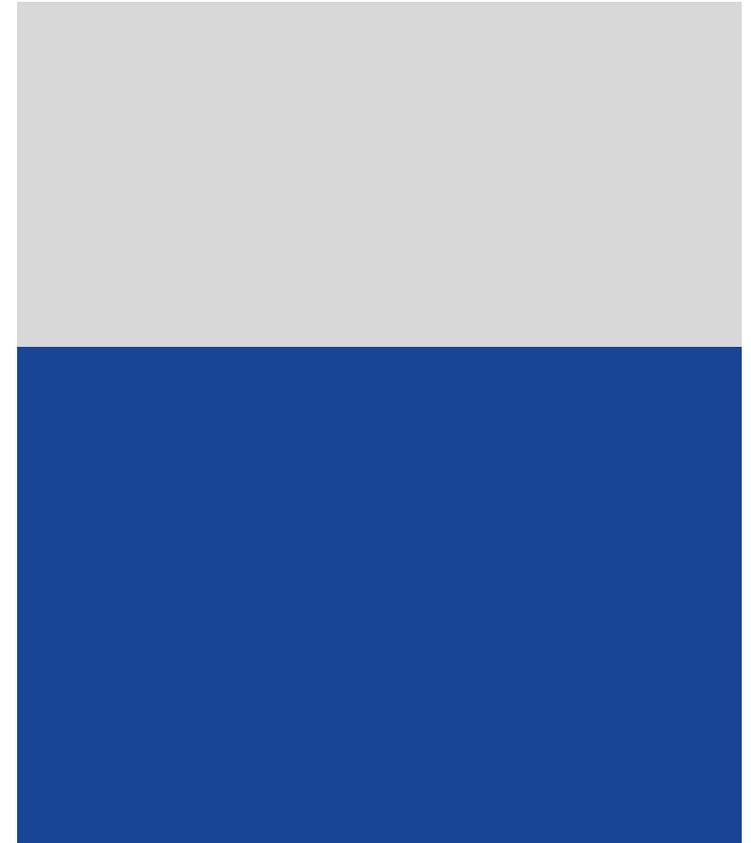
30x30

30x30 Targets

SDGs
Biodiversity



?



GOOS



5 Years into the strategy what next?



Co-Design for climate risk

Ensure countries get the info they need to manage climate risk and resilience



CoastPredict

Support a sustainable blue economy and lower risk

Build the digital ecosystem

Critical ocean data infrastructure for the earth/humanity system, with access for all (data equity)

Update the Roadmap

Objectives - reduce / update

- 5?

Actions - rationalise

- Remove dormant/in

Outcomes - clear and trackable

- Select 2 or 3 per goal - make them **key results** > OKRs



Communications plans for 2024

	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Key events	Decade conf.	NFP Forum					CBD COP16	CBD COP16; COP28	COP28
Publications	OCG Data strategy	WG7 Paper	EOV paper	StOR					
Strategic work	Communications toolkit - planning		Communications toolkit development (Messaging, brand guidelines, tools: slide deck and other brand assets)						Preparing launch with rebranding (GOOS logo)
Website work	Website structure and content revision				Website structure and content updating				

5 Years into the strategy what next?

Revolutionise ocean management for all

Biodiversity and ecosystem info to support human and ocean health, climate resilience, and food security

Early warnings for all

Speeding technology to answer the big questions

Expanding the Global Ocean Observing System

