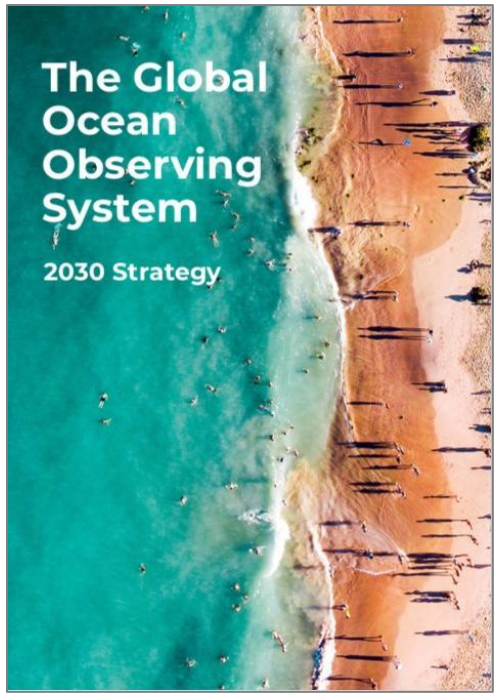
The Global Ocean Observing System
www.goosocean.org

3.5.2

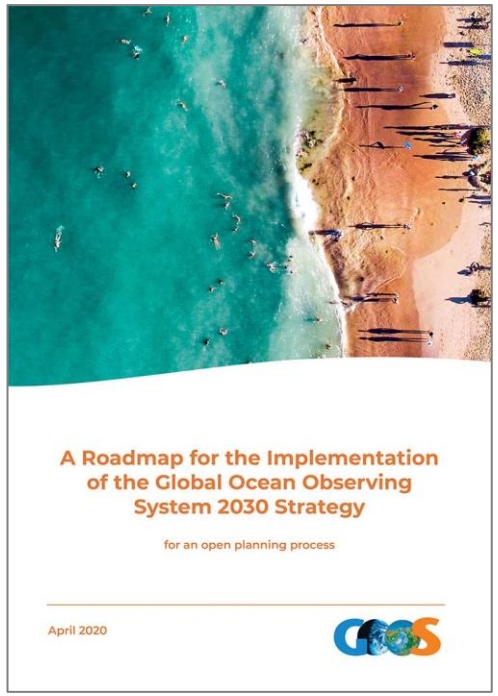
GOOS Work Plan

Anya Waite and Toste Tanhua
Co-chairs, GOOS Steering Committee
IOC 31st Assembly, 22 June 2021

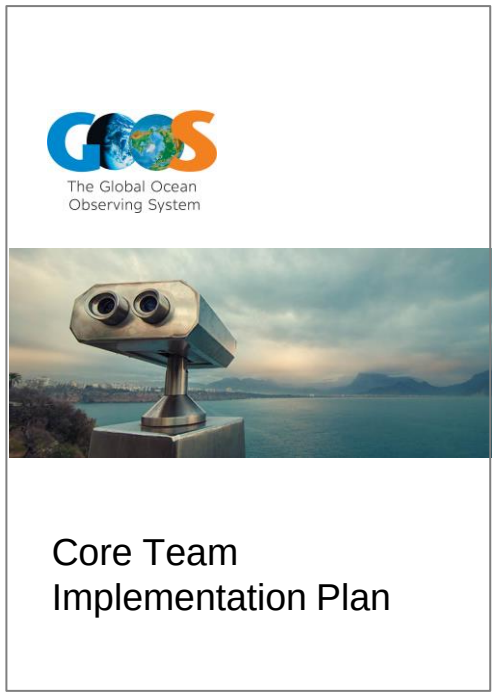
From planning to implementing



IOC-30, WMO Cg-19
2019

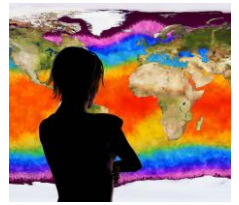


Roadmap for partners
2020



GOOS Core Team IP
2021
Executive Summary for adoption today
IOC/A-31/3.5.2.Doc

At the heart of the Ocean Decade



Ocean Observing Co-Design

CoastPredict

Observing Together

Decade Programmes
2021-2030
IOC registration
Ocean Decade Resolution (3.7)

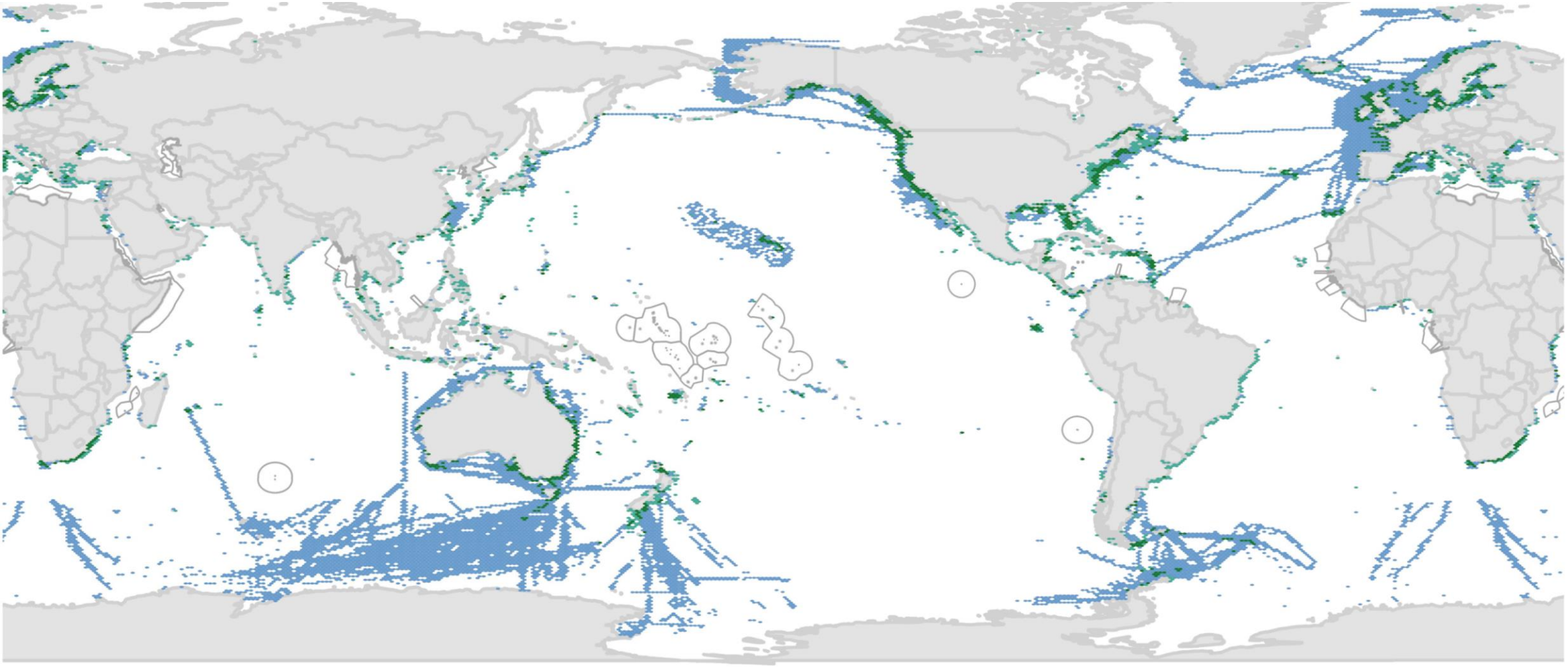
GOOS today

Covid-19 impact

http://www.ocean-ops.org/reportcard

GOOS today

Biological and ecological observations



GOOS Core Team **Implementation Planning**

58

Actions

5

*High-priority **Strategic Objectives***

11

*Major **cross-GOOS** actions*

3

*identified key value chain **partners***
WMO, IODE, OceanPredict

Building a process to identify priorities, resourcing, gaps, and structure

IOC Assembly working document **IOC/A-31/3.5.2.Doc**

Actions viewed through GOOS Strategic Objectives

5. The following table lists the 58 Actions in the Implementation Plan and their level (cross-GOOS major, multi-element, single element, and Ocean Decade programme), organized by the eleven Strategic Objectives (SOs) of GOOS.

Number	Action	Level
Goal: Deepening engagement and impact		
SO1. Strengthen partnerships to improve delivery of forecasts, services, and scientific assessments		
1.1	GRA assessment for forecasts and services	Single element
1.2	Partnerships for delivery	Cross-GOOS
SO2: Build advocacy and visibility with stakeholders through communicating with key users and national funders		
2.1	Value of Ocean Observations Project	Single element
2.2	GOOS Communications Plan	Cross-GOOS
2.3	GOOS National Focal Point role developed	Cross-GOOS
2.4	Evolve *Ocean Observing System Report Card*	Cross-GOOS
SO3: Regularly evaluate system impact to assess fit for purpose		
3.1	Network status reporting	Multi element
3.2	Observing System evaluation and metrics	Cross-GOOS
3.3	Ocean Forecast evaluation and metrics	Single Element
3.4	Global map of ocean forecasting systems	Single Element
3.5	Develop an interactive map of networks and metadata for biological monitoring	Multi element
3.6	Global Ocean Indicators Framework	Cross-GOOS
3.7	Ocean Observing Co-Design	Decade Prog.
SO4: Strengthen knowledge and exchange around services and products, to boost local uptake		
4.1	Toolkit/Guide on Operational Ocean and Monitoring and Forecasting Systems	Single element
4.2	Data Integration Products Across GRAs	Single element
4.3	Establish and promote a GOOS product and services portfolio for Ocean Forecasting centres	Multi element
Goal: Supporting integration and delivery		
SO5: Provide authoritative guidance on integrated observing system design, synthesizing across evolving requirements and identifying gaps		
5.1	Essential Ocean Variable (EOV) / Essential Climate Variable (ECV) Stewardship & GCOS	Multi element
5.2	GOOS EOV Review	Multi element
5.3	Observing System Evaluation and Reviews	
	5.3.1 Strategy for Ocean Heat and Freshwater Cycles	Single element
	5.3.2 Observing System Evaluation and Strategy for the Ocean-Atmosphere Interface and Boundary Layers	Single element
	5.3.3 Observing System Evaluation and Strategy for Boundary Systems	Multi element

Resources

Support structure today
distributed GOOS Office

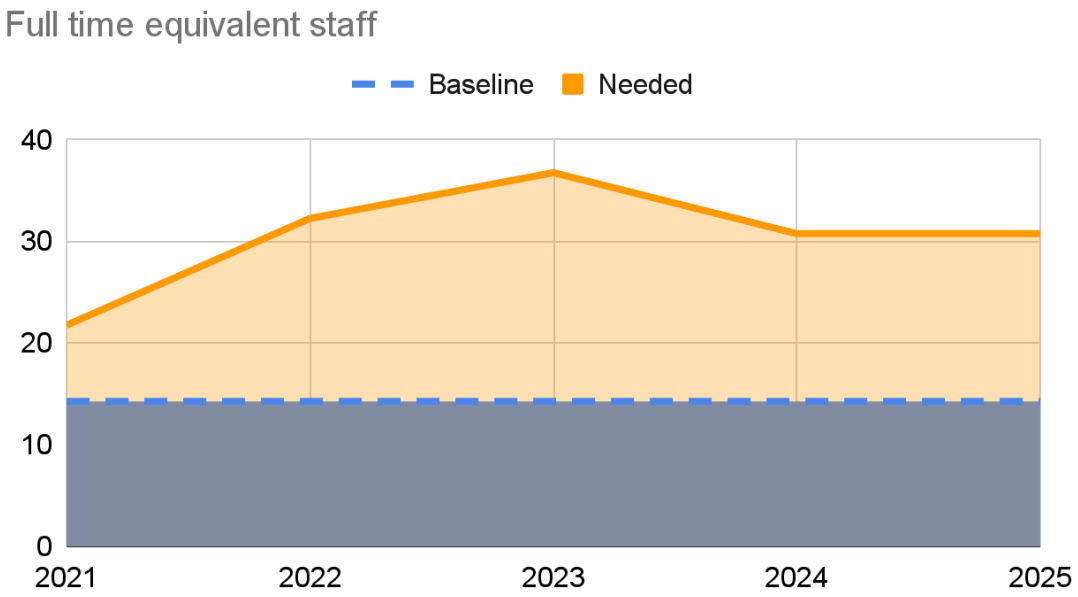
14.25 full time equivalent staff

Ostend
Brest
Sopot
Paris
Washington DC
Geneva
Hobart

supported by IOC, WMO (+1 in 2021),
USA (NOAA, NSF via SCOR),
Australia (CSIRO, AIMS),
EC projects, Monaco, EUMETNET, France,
Canada, China, Germany, Japan,
Italy, India, New Zealand, South Africa, and UK

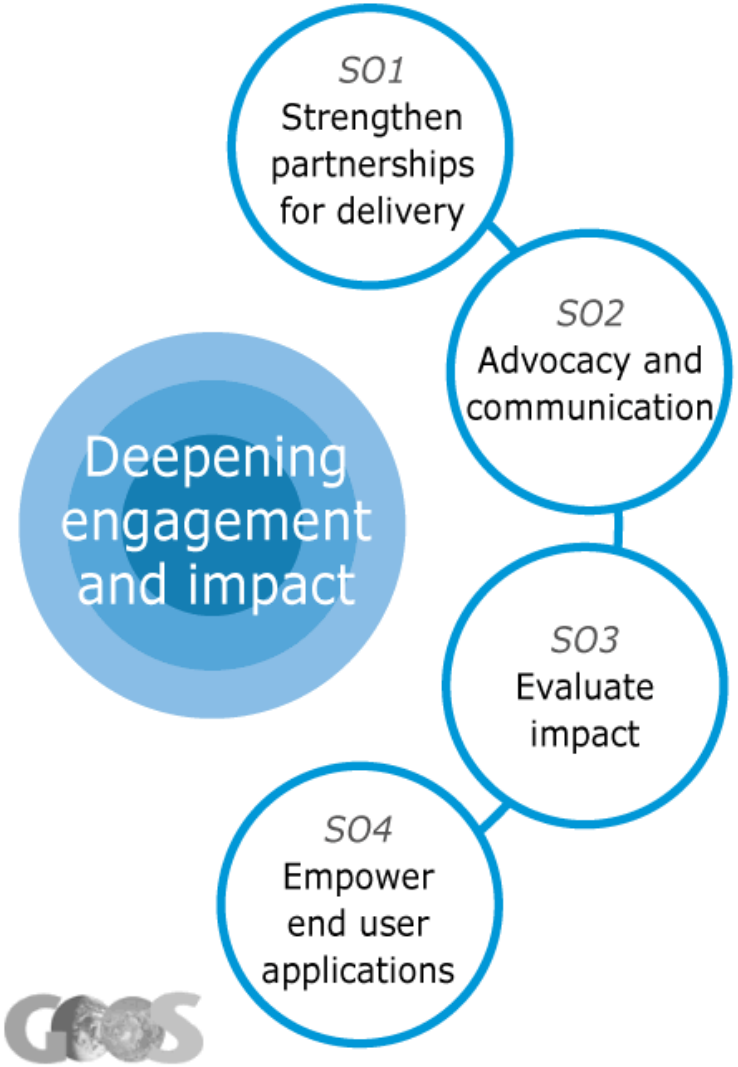
Support needed
in full to advance with all Core Team Actions

+280% in 2 years



Implementation planning

Expected impact on the observing system



SO2: broad **recognition** of value and role of observations for society, role of GOOS and supporters, **improved cohesion**

70% **ambition** against 2030 Strategy — **+2.5** FTE **needed**

SO3: improved **system efficiency and performance**, tools for **integrated system design**, observing **gaps**, assessment and **reporting on implementation**, **value** of ocean forecasting

50% **ambition** against 2030 Strategy — **+1.9** FTE **needed**

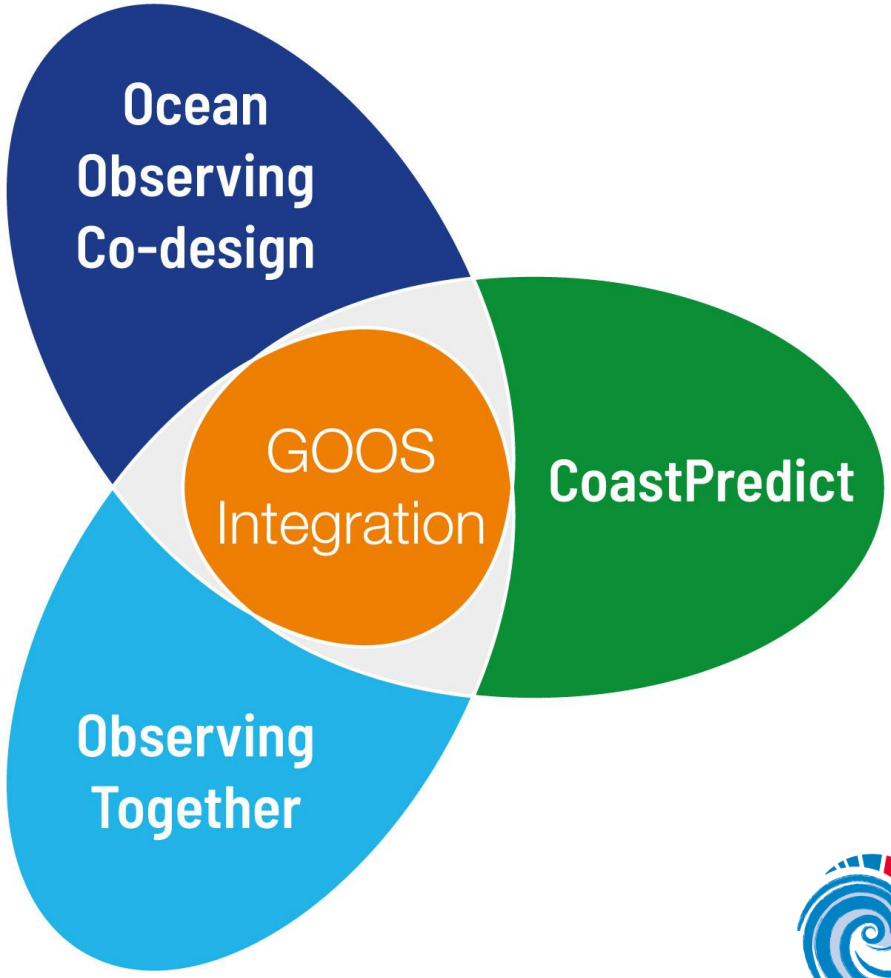
GOOS Steering Committee “committed to change”

Developing collective impact for **capacity development**, partnerships for delivery, observing human impacts

Improving governing and support structures

1. Design a process of change with stakeholders
2. Critically assessing internal architecture to be aligned with key functions
3. Ask co-sponsors (IOC, WMO, UNEP, ISC) to be receptive for governance change

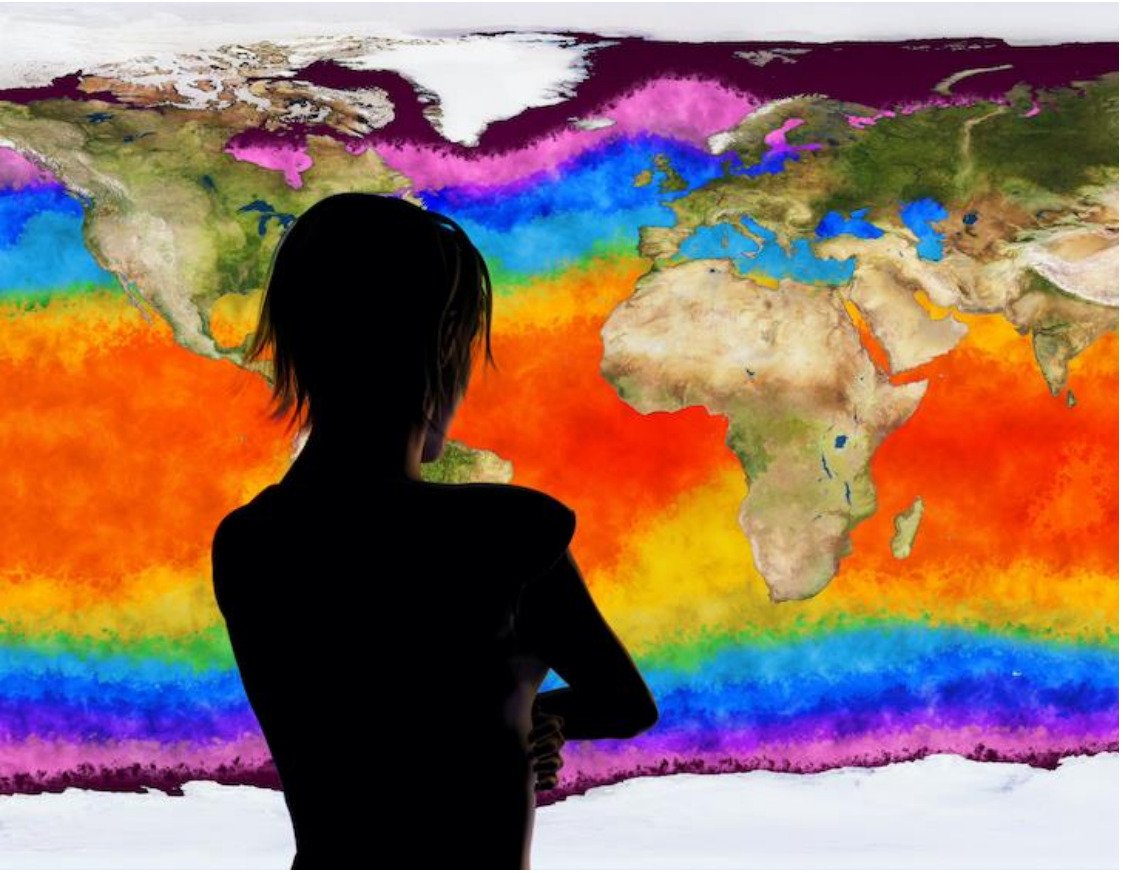
At the heart of the Ocean Decade



2021 2030 United Nations Decade of Ocean Science for Sustainable Development

Ocean Observing Co-Design

by The Global Ocean Observing System



Building the partnerships, process, infrastructure and tools for ocean observing co-design necessary to support the Ocean Decade

Observing Together

by The Global Ocean Observing System

Aiming to transform ocean data access and availability by connecting ocean observers and the communities they serve, going further to make every observation count.

CoastPredict

with The Global Ocean Observing System

Revolutionising Global Coastal Ocean observation and forecasting and offering open and free access to coastal information

Action through GOOS

- **Relevance, credibility and visibility** - working with the recognised global home for sustained ocean observing
- **Maximising the value of investment** in observations - global-local objectives, best practices, seamless data flow to information services
- **Playing a role in the UN mandate** on oceans, climate, sustainable development, biodiversity, disaster risk reduction
- Building an **agile system to serve societal needs -** GOOS 2030 Strategy

Thank you

Please get in touch to start the conversation about how you can help us and what your contribution will enable us to achieve together

goosocean.org