3.5.2
GOOS Work Plan

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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

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

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.

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

IOC/A-313.5.2.Doc

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IOC Assembly working document IOC/A-31/3.5.2.Doc
Support structure today
distributed GOOS Office

14.25 full time equivalent staff

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

**SO1**
Strengthen partnerships for delivery

**SO2**
Advocacy and communication

**SO3**
Evaluate impact

**SO4**
Empower end user applications

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**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
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.
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