UN Ocean Decade GOOS Co-Design Program

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Realizing the Benefits of Ocean Knowledge through Ocean Observing Co-Design

The Program will evolve the ocean observing system so that it is co-designed with end-users and responds to their needs

- -Link along value chain and users
 - -Design for observing and forecasting
 - -Economic value assessment
 - -Blueprint for services if they don't exist
 - -Ongoing tracking of implementation

Benefits of a Co-Design Approach

- -Strengthens the ability of ocean science to offer solutions of direct relevance
- -Enhances uptake of scientific information/reinforces science-policy
- -Informs funders regarding the benefits of science
- -Encourages alignment of funding and support with identified priorities
- -Promotes inclusive and equitable ocean science

Began the Process with Exemplars

Coastal:

- The Ocean Carbon Cycle: Improve carbon data to inform climate targets, such as net zero
- Tropical Cyclones: Advancing tropical cyclone forecasting to save lives & property
- Marine Life: Sustaining development and conservation of living marine resources
- Storm Surge: Improving predictions to for vulnerable communities & natural resources Open Ocean:

Marine Heatwaves: Monitoring marine heatwave impacts on biodiversity and economies

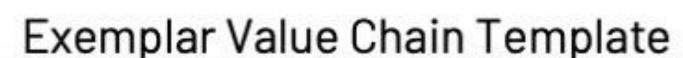
Boundary Currents: Observing and understanding key current systems

2024-2025 Workplan in Draft and Review

- -Development of Co-Design Principles and Practices (e.g., Integration: Satellite and In situ)
- -Development of Management Exemplars (Based on Pilots and Funding Models)
- -Development of Governance Structures and Frameworks (Advisory Panels / UN Ocean Decade and Beyond)
- -Development of Communication Resources (Improve Visibility: Messaging, Presentations)

Your Engagement: Continue the co-design process by identifying the needs of knowledge users.

- ☐ What is your **vision** of-or-for Co-Design?
- ☐ What do you **need** from Co-Design Process(es)?
- ☐ What do you require from **leadership** organizations and institutions?



Program Co-chairs, Manager, and ECOP

David Legler | Director, Global Ocean Monitoring &

Scientist, Commonwealth Scientific and Industrial

Observing, National Oceanic & Atmospheric

Bernadette Sloyan | Senior Principal Research

Emma Heslop | Program Manager, Global Ocean

Ann-Christine Zinkann | Program Manager, NOAA /

UCAR, ECOP for Ocean Observing Co-Design

Administration

Program

Research Organization

Observing System, IOC-UNESCO



Value for Stakeholders and Users



Potential Exemplar Pilot Sites (2032)

