

# UN Ocean Decade GOOS Co-Design Program

McCurdy, A., Center for Ocean Leadership, UCAR (mccurdy@ucar.edu)

## 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 & Observing, National Oceanic & Atmospheric Administration
- **Bernadette Sloyan** | Senior Principal Research Scientist, Commonwealth Scientific and Industrial Research Organization
- **Emma Heslop** | Program Manager, Global Ocean Observing System, IOC-UNESCO
- **Ann-Christine Zinkann** | Program Manager, NOAA / UCAR, ECOP for Ocean Observing Co-Design Program

### Exemplar Value Chain Template



Potential Exemplar Pilot Sites (2032)