GOMO Community Workshop 2023
Goals and Agenda

Workshop Goals

- Share recent accomplishments, discuss opportunities for further improvement, and identify solutions to challenges facing the ocean observing community;
- Discuss and gather input on GOMO’s 2022 Program Review recommendations, responses, and next steps;
- Identify ways to advance diversity, equity, and inclusion both in the research community and in our NOAA program and labs;
- Strengthen connections and collaborations within our community and identify new opportunities to engage more broadly;
- Develop messages to raise the visibility of GOMO’s work.

Workshop Agenda

DAY 1 | Tuesday  Jul 25, 2023
9:00 AM - 5:00 PM ET
In person registration opens at 8:30

Goal 1: Sustain global ocean monitoring and observing for long-term continuity and improve data quality and system efficiency.

Opening Remarks | 9:00 - 9:15 AM (15 min)
- Welcome and messaging from NOAA/OAR/GOMO leadership [David Legler, Emily Menashes]

Session 1: GOMO Today | 9:15 - 10:00 AM (David Legler, 45 min)
- Program review recommendations, call for community input [20 min]
- What to expect in the FY24 budget [10 min]
- Discussion [15 min]

BREAK | 10:00 - 10:15 AM (15 min)

Session 2: GOMO into the Future | 10:15 - 11:45 AM (90 min)
- Session chair: Jessica Snowden
- Guiding questions:
  - What does it mean to build and maintain a sustained observing system?
  - How do we prioritize areas for expansion?
  - How do we address ongoing challenges in the ocean observing community?
  - Opportunities to increase support, infrastructure and international collaboration?
- Future of the fleet; NOAA’s mission at sea [RDML Chad Cary, 10:15 AM, 20 min + 15 min Q&A]
- Planning for evolution; what does this mean? [David Legler, 10:50 AM, 20 min]
- Moderated discussion [Jessica Snowden, 11:10 AM, 35 min]
LUNCH | 11:45 AM - 1:15 PM (90 min)

Goal 2: Innovate and evolve the ocean observing network to address emerging needs and opportunities for ocean health, ocean economy, weather and climate.

Intent for Science Talk Discussion (Sessions 3, 4, 5, and 6)
- Allow space for diverse talks based on GOMO program and Community feedback
- Share new research, successes, challenges
- Highlight the value of ocean observing to science and society
- Look for opportunities to collaborate and partner
- Consider what GOMO Science Talks should look like in 5, 10, 30 years

Session 3: Science Talks | Physical Oceanography, Extreme Events, Air-Sea Flux | 1:15 - 2:45 PM (90 min)
- Session co-chairs: Cheyenne Stienbarger, Jim Todd
- How are we advancing the observing networks of ocean physics and chemistry?
  - Extreme events/air-sea interactions [Johna Rudzin, 1:15 PM]
  - Air-sea flux [Elizabeth Thompson, 1:25 PM]
  - Ocean heat [Greg Johnson, 1:35 PM]
  - Boundary currents, XBTs [Ivenis Pita, 1:45 PM]
  - Surface drifters [Martha Schönap, 1:55 PM]
  - GTMBA [Mike McPhaden, 2:05 PM]
- Panel discussion [2:15 PM, 30 min]

BREAK | 2:45 - 3:00 (15 min)

Session 4: Science Talks | Carbon, Biogeochemistry, and Marine Ecosystems | 3:00 - 4:30 PM (90 min)
- Session co-chairs: Cindy Garcia, Alyse Larkin
- How are we advancing the observing networks of ocean chemistry, biology, and ecosystems?
  - Air-sea pCO2 flux [Amanda Fay, 3:00 PM]
  - Ocean interior carbon and GLODAP [Leticia Barbero, 3:10 PM]
  - BGC-Argo [David Nicholson, 3:20 PM]
  - Bio-GO-SHIP [Adam Martiny, 3:30 PM]
  - Marine ecosystems [Phyllis Stabeno, 3:40 PM]
  - International Arctic Buoy Program [Ignatius Rigor, 3:50 PM]
- Panel discussion [4:00 PM, 30 min]

Day 1 Wrap-Up | 4:30 - 4:45 (David Legler, 15 min)

DAY 2 | Wednesday Jul 26, 2023
8:30 AM - 5:00 PM ET
Goal 2 (Continued): Innovate and evolve the ocean observing network to address emerging needs and opportunities for ocean health, ocean economy, weather and climate.

Session 5: Science Talks | Innovative Technologies | 8:30 - 10:00 AM (90 min)
- Session co-chairs: David Allen, Kathy Tedesco
- What are the emerging opportunities in ocean observing technologies?
  - Uncrewed Surface Vehicles developed for GOOS: A success story of Public-Private Partnership of NOAA Research and Saildrone [Dongxiao Zhang, 8:30 AM]
  - Next-generation technology for 20-year-old air-sea CO2 instrumentation [Adrienne Sutton, 8:40 AM]
  - The Incorporation of GNSS into NOAA National Water Level Observation Network (NWLO) [Peter Stone, 8:50 AM]
  - Towards an Arctic Ocean profiling array [Susan Wijffels, 9:00 AM]
  - Innovative Technology for Arctic Exploration Program [Calvin Mordy, 9:10 AM]
- Panel discussion [9:20 AM, 40 min]

BREAK | 10:00 - 10:15 AM (15 min)

Session 6: Science Talks | Model Improvements and Applications | 10:15 - 11:45 AM (90 min)
- Session co-chairs: Emily Smith, Sarah Tucker
- How can we use novel model-based approaches to innovate and evolve ocean observing and its applications?
  - Hurricane forecasting - observing system experiments & data assimilation [Matthie Le Henaff, 10:15 AM]
  - Global open ocean data for BGC-Argo research [Larissa Dias, 10:25 AM]
  - Subseasonal-to-seasonal weather predictions [Chidong Zhang, 10:35 AM]
  - Sea level forecasting [Matthew Widlansky, 10:45 AM]
  - Arctic modeling (sea ice, ocean, land, atmosphere) [Chris Cox, 10:55 AM]
  - Assessment products (Arctic Report Card) [Twila Moon, 11:05 AM]
- Panel discussion [11:15 AM, 30 min]

GROUP PHOTO | 11:45 AM - 12:00 PM (15 min)

LUNCH | 12:00 PM - 1:15 PM (1 hour 15 min)

Goal 3: Improve the value, accessibility, and usability of observational data for informed decision-making.

Session 7: Data Workshop | 1:15 - 4:45 PM (3.5 hours)
- Data workshop co-chairs: Cindy Garcia, Alyse Larkin, Ann Zinkann
- Guiding points:
  - Introduce the draft Data Strategy Plan and co-develop plan with the Community
  - Identify the challenges, gaps, and key activities. What can GOMO do to bridge said gaps (proposed solutions and thoughts)
  - How can we move forward with these actions in a sustainable manner?
  - Developing metrics of success and indicators
Data Workshop: Intro & Data Strategy Visioning | 1:15 - 1:30 PM (Data Team, 15 min)

Data Workshop: Overview Presentations | 1:30 - 2:00 (30 min)
- Data strategy and governance [Kevin O’Brien, 1:30 - 1:45 PM]
- Metrics of success and indicators [Mathieu Belbeoch, 1:45 - 2:00 PM]

BREAK | 2:00 - 2:15 PM (15 min)

Data Workshop: Working Session (2 Breakout Sessions) | 2:15 - 4:00 PM (1 hour 45 min)
- Facilitators: Kevin O’Brien, Mathieu Belbeoch, Eugene Burger, Alex Kozyr, Liqing Jiang, Mathew Biddle
  - Working Session 1 (with two breakout groups) [2:15 - 3:05 PM]
  - Working Session 2 (with two breakout groups) [3:10 - 4:00 PM]

BREAK | 4:00 - 4:15 PM (15 min)

Data Workshop: Report Out from Working Session and Next Steps | 4:15 - 4:45 PM (30 min)
- Working session report out [4:15 - 4:35 PM] (20 min - 10 min each group)
- Final discussion & next steps [4:35 - 4:45 PM] (10 min)

Day 2 Wrap-Up | 4:45 - 5:00 (David Legler, 15 min)

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**DAY 3 | Thursday Jul 27, 2023**

8:30 AM - 1:00 PM ET

**Goal 4: Develop and capitalize on the expertise, diversity and capacity of the ocean observing enterprise.**

**Session 8: Identifying GOMO Stakeholders | 8:30 - 9:30 AM (60 min)**
- Session co-chairs: Jessica Snowden, Ann-Christine Zinkann
- Guiding questions:
  - How do you best identify the right level of stakeholders?
  - How do you prioritize the core stakeholders group relevant to your activities?
  - How far along the value chain do you recommend developing a stakeholder mapping?
  - What are some best practices you recommend when engaging stakeholders in your operations?
  - How do you incorporate stakeholder needs into your decisions and weigh their needs to agency priorities? And how do you then prioritize investments?
- Panel discussion: Shirley Murillo, AJ Reiss, Marian Westley, Sheekela Baker-Yeboah, Debra Hernandez, Kathleen ONeil, Jun Zhang

**Session 9: Broadening Engagement and DEIJA | 9:30 - 10:30 AM (60 min)**
- Session co-chairs: Jessica Gwinn, Sandy Lucas
- Guiding questions:
  - What are the policies and best practices for ensuring a safe and inclusive community?
○ Where are we succeeding as a community? Where are the gaps in DEIJA we should focus on?
○ How can GOMO lead in making ocean science more inclusive and equitable?
● Panel discussions:
○ 1) Workplace violence prevention and response, SASH [Marie Herndon, 9:30 AM, 20 min]
○ 2) Broadening engagement and other DEIJA activities [Diane Stanitski, Alexis Valauri-Orton, 9:50 AM, 40 min]

BREAK | 10:30 - 11:00 AM (30 min)

Session 10: Communicating the Importance of Ocean Observations | 11:00 AM - 12:00 PM (60 min)
● Session co-chairs: Jessica Mkitarian, Sarah Tucker, Jessica Gwinn
● Guiding questions:
  ○ How can we better coordinate communications across our community?
  ○ How can we communicate our science beyond the ocean observing community?
  ○ How do we develop consistent and effective messaging on the value of ocean observing?
● Panel discussion: Monica Allen, Adi Hanein, Claire Montgomery, Rayne Sabatello

Session 11: Reflections on Building the Future of the GOMO Community | 12:00 - 12:30 PM (David Legler, 30 min)

Closing Remarks | 12:30 - 1:00 (30 min)