

Agenda Day 1: May 18

08:00 Registration & Coffee

08:30 Day 1 Opening | Georgia Coward, UG2 Coordinator

- **Welcome to UG2 Workshop and Logistics** | Georgia Coward, UCAR COL
- **Welcome to the Gulf and USF** | Tom Frazer and Chad Lembke, University of South Florida College of Marine Science
- **Overview of Goals for this Workshop** | Georgia Coward, UCAR COL

09:00 Oral Presentations: Climate Trends and Regional Oceanography | Chairs: Cordie Goodrich and Erica Fruh

- **Daniel Rudnick**, Scripps Institution of Oceanography: *The mean coastal upwelling circulation in the Southern California Current System*
- **Miguel Tenreiro**, CICESE: *A decade gliding through Mexican waters*
- **Robert Todd**, Woods Hole Oceanographic Institution: *Gliders in the Gulf Stream: Looking toward the second decade of sustained observing*
- **Sean Beckwith**, University of South Florida College of Marine Science: *Comparison of glider-derived and modeled sound speed profiles as hydrographic tools on the West Florida Shelf*
- **Hana Hourston**, Dalhousie University: *An assessment of mean conditions, trends, and variability on the central Scotian Shelf using ship-based observations and autonomous vehicles*

10:15 Break | UG2 Mentorship Match-Up

11:00 Breakout Sessions

- **Session 1: Technical Operations and Logistics** | Facilitators: Karen Dreger, Skidaway Institute of Oceanography; Bill Lingsch, IOOS; Doug Wilson, University of the Virgin Islands; Kevin Martin, University of Southern Mississippi
- **Session 2: Gliders in Fisheries/Living Marine Resource Assessment** | Facilitator: Erica Fruh, NOAA Uncrewed Systems Division

Agenda Day 1: May 18

12:30 Lunch

13:30 Oral Presentations: Next Generation Autonomy | Chairs:
Mat Dever and Rebecca Walsh

- **Ben Allsup**, National Oceanography Centre: *Increasing operational capabilities of Slocum gliders at NOC*
- **Steve Pearce**, ASL Environmental Sciences: *What's new at ASL: AZFP developments*
- **Ellis Keener-LaCroix**, Ocean Tracking Network: *Creating a glider piloting tool to avoid strikes in high vessel traffic areas*
- **Patrick Spezzano**, Rutgers University: *The Glider Guidance System 3: Advances in shoreside support of AUV operations*
- **Matthew Green**, Wassoc: *Wassoc Shadowgraph: Collaborative Innovation*

14:45 Poster Lightning Talk Advertisements ⚡ | Chair: Barb Kirkpatrick

15:30 Break

16:00 Poster Session

17:00 Day 1 Closing Remarks

17:05 Adjourn

17:30 Networking Event: Happy Hour

- **The Hub, 450 8th Ave SE, St. Petersburg**
5:30 - 7:30pm. Local beers and other drinks and appetizers.
Sponsored by the Marine Technology Society.



Agenda Day 2: May 19

08:00 Late Registration & Coffee

08:30 Welcome | Georgia Coward, UG2 Coordinator

- **Day 1 Recap & Day 2 Setup**

08:45 Keynote | Travis Miles, Rutgers University and Barb Kirkpatrick, TAMU

09:15 Oral Presentations: Integrated Ecosystem Monitoring (Acoustics and Optics) | Chairs: Saraswathy Sabu and Dan Rudnick

- **Anthony Cossio**, NOAA/Southwest Fisheries Science Center: *Sound evolution: How we have used glider-integrated active acoustic systems for zooplankton density and biomass estimates*
- **Jen Walsh**, NOAA/Southwest Fisheries Science Center: *What we do in the shadows, part II: Advances in NOAA's artificial intelligence/machine learning pipelines for automated analysis of shadowgraph imagery from gliders*
- **Bo Yang**, University of South Florida: *In-situ estimates of net primary production on the West Florida shelf with underwater gliders*
- **Chad Lembke**, University of South Florida: *Utilization of gliders for Rice's whale understanding*
- **Mark Yamane**, University of Washington: *Characterizing zooplankton communities and maximizing near-real-time information content transfer using ShadowMetrics*
- **Shannon Rankin**, NOAA Pacific Islands Fisheries Science Center: *NOAA Fisheries Glider Challenge: Accelerating the use of passive acoustic-equipped gliders to monitor and assess cetacean populations in the Pacific*

10:45 Break

11:30 Breakout Sessions

- **Session 1: Data Infrastructure and Interoperability** | Co-Leads: Jennifer Bowers, NOAA NCEI; Jennifer Sevadjian, Scripps Institution of Oceanography
- **Session 2: Piloting - Q&A** | Facilitators: Karen Dreger, Skidaway Institute of Oceanography; Bill Lingsch, IOOS; Kevin Martin, University of Southern Mississippi; Doug Wilson, University of the Virgin Islands

Agenda Day 2: May 19

13:00 Lunch

- **Early Career Mentorship Luncheon: Federal, Industry & Academic Panel** | Facilitators: Cassie Wilson, UCAR COL; Karen Dreger, Skidaway Institute of Oceanography

14:00 Breakout Sessions

- **Session 1: MTS Microcredentials** | Facilitators: Liesl Hotaling, MTS; Karen Dreger, Skidaway Institute of Oceanography
- **Session 2: Introduction to Grant and Proposal Writing** | Facilitator: Travis Miles, Rutgers University
- **Session 3: Integrating Acoustic Telemetry into Glider Operations** | Facilitator: Hank Statscewich, University of Alaska Fairbanks

15:15 Break

16:00 Oral Presentations: Payload Engineering and Operational Readiness | Chairs: Jen Bowers and Senam Tsei

- **Dean Fougere**, D-2 Incorporated: *The D-2 Hybrid CTD sensor: Description and evaluation*
- **Mathieu Dever**, RBR / WHOI: *Getting the most out of RBR instruments on gliders: Best practices for RBRlegato⁴, RBRlegato³, RBRcoda T.ODO and RBRtridente*
- **Benjamin Werb**, Monterey Bay Aquarium Research Institute: *Sustained pH observations from underwater glider networks in the US*
- **Jimmy Spore**, Woods Hole Group: *Satellite telemetry for gliders: Present and future capabilities*


17:00 Adjourn

17:15 Networking Event: Happy Hour

- **The Tavern at Bayboro, 120 6th Ave S, St. Petersburg**
5:15 - 7:15pm. Drinks and light appetizers.
Sponsored by Teledyne Marine.



Agenda Day 3: May 20

- 08:00** Coffee
- 08:30** Welcome | Georgia Coward, UG2 Coordinator
- **Day 2 Recap & Day 3 Setup**
- 08:45** International Partnerships and Logistics | Chairs: Jorge Brenner and Doug Wilson
- 10:00** Break
- 10:45** Looking Forward: AI and Gliders Discussion | Chairs: Jen Bowers and Bob Currier
- **Plenary Presentation:**
Bob Currier, Texas A & M University - Oceanography / OCEANCODA LLC: *Going AI-Native: Production AI in Glider Operations*
- 11:45** Lead Partner Presentation: Teledyne Marine
- 12:00** Lunch - Sponsored by Teledyne Marine
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- 13:00** Industry Panel Session: Community Needs and Next Steps | Chair: Bill Lingsch
- 14:00** Oral Presentations: Workforce Development & Education | Chairs: Jenn Sevadjian and John Horne
- **Carlos Barrera**, PLOCAN: *PLOCAN Glider School: Fifteen years of training and international engagement in ocean-glider technology*
 - **William Menapace**, University of Washington: *Training students through repeated seaglider missions: Investigating seasonal dynamics in Puget Sound*
 - **Liesl Hotaling**, MTS: *Building an ocean technician workforce using microcredentials*
- 14:45** Break

Agenda Day 3: May 20

- 15:15** Oral Presentations: Data Infrastructure and Interoperability | Chairs: Sarina Mann and Jochen Klinke
- **Jenn Sevadjian**, Scripps Institute of Oceanography: *Next generation data systems for the California Underwater Glider Network*
 - **Aaron Mau**, Voice of the Ocean Foundation: *Gliding clearly: The role of open-source and non-academic actors in global ocean glider data*
 - **Leila Baghdad Brahim**, Tetrattech, Ocean Science: *Configurable QARTOD quality control for environmental variables: A data-driven, JSON-based approach for GDAC submissions*
- 16:00** Community Feedback and Ideas: UG2 Workshop | Georgia Coward
- 16:15** Closing Remarks | Jorge Brenner, GCOOS Director
- 16:30** Adjourn