

13th Radiowave Operators Working Group (ROWG-13) Meeting Agenda



THE UNIVERSITY OF
SOUTHERN MISSISSIPPI®

May 21–23, 2024

Host: The University of Southern Mississippi

Location: [Hardy Hall](#), University of Southern Mississippi, 730 East Beach Boulevard, Long Beach, MS 39560, U.S.A.

Website: <http://www.rowg.org/bin/view/Meetings/ROWG13>

Additional Information: Please click on the “News” tab on the top of the webpage at <https://ioos.noaa.gov/project/hf-radar/>

Meeting’s Webinar Link: https://ucsb.zoom.us/webinar/register/6617141478394/WN_TEq01WFBReejbK7pSrCU9g

Tuesday, May 21, 2024 - Manufacturer Day

Time (CDT)	Topic	Presenter
09:00 – 10:30	Coffee/tea/snacks	
10:00 – 16:00	CODAR Ocean Sensors <ul style="list-style-type: none">• Location: In-person at Hardy Hall and virtually too.• A virtual participation hyperlink will be e-mailed by CODAR to people who have registered for this <i>CODAR Manufacturer Day</i> as part of their registration.	Various CODAR staff
10:00 – 13:00	Helzel WERA Systems <ul style="list-style-type: none">• Remote session.• Link has been already sent to registered participants (email to gomez@helzel.com if you need the link).	Roberto Gomez (HELZEL Messtechnik)
12:00 – 13:00	Lunch	
17:00 – 20:00	Ice Breaker @ Coterie Restaurant & Oyster Bar : 300 Beach Blvd. E., Long Beach, MS 39560	Sponsored by CODAR

Wednesday, May 22, 2024 - ROWG Day 1

Time (CDT)	Topic	Presenter
8:00 – 8:30	Coffee/tea/snacks	
8:30 – 10:10 (100 min.)	Introductions & U.S. Integrated Ocean Observing System (IOOS) Briefing <ul style="list-style-type: none"> 8:30 – 8:50 Introduction to ROWG and Host Welcome 8:50 – 9:50 Around the room: Participant Introductions by region 9:50 – 10:10 IOOS briefing 	<ul style="list-style-type: none"> Kevin Martin/Stephan Howden (USM) Jorge Brenner (GCOOS) Brian Zelenke (NOAA IOOS Office)
10:10 – 10:30 (20 min.)	Coffee Break	
10:30 – 12:30 (120 min.)	Hardware/Infrastructure session <ul style="list-style-type: none"> Site Operations <ul style="list-style-type: none"> Troubleshooting Site Maintenance <ul style="list-style-type: none"> Corrosion Communications (modems, Starlink) A meteorologist's perspective: Operating a coastal radar in a harsh atmospheric environment 	Kevin Martin (USM) Marcus Cotes (FIT)
12:30 – 13:30 (60 min.)	Lunch	
13:30 – 15:05 (95 min.)	Best Practices and Software Discussion <ul style="list-style-type: none"> Operations and Maintenance (O&M) Where to find oceanographic high-frequency radar (HFR) best practices documents Data Visualization Recapitalization tracking 	<ul style="list-style-type: none"> Teresa Updyke (ODU) Brian Zelenke (NOAA IOOS Office)
15:05 – 15:20 (15 min.)	Coffee Break	
15:20 – 15:45 (25 min.)	Best Practices and Software Discussion (continued) <ul style="list-style-type: none"> Multiple site monitoring 	Kevin Martin (USM)
15:45 – 16:45 (60 min.)	Drone Antenna Pattern Measurement (APM) Demonstration <ul style="list-style-type: none"> Where to find APM drone documentation and best practices (e.g., on ROWG website) Cal Poly SLO experience with APM drones Options for fabricating signal sources (e.g., open source plans) 	<ul style="list-style-type: none"> Ed Romero (UCSB) Ian Robbins (Cal Poly SLO)

Thursday, May 23, 2024 - ROWG Day 2

Time (CDT)	Topic	Presenter
8:00 – 8:30	Coffee/tea/snacks	
8:30 – 10:30 (120 min.)	Quality Assurance/Quality Control (QA/QC) session <ul style="list-style-type: none"> • Interference • APM collection and processing • QARTOD flags • QC Software • QA/QC Checklist 	<ul style="list-style-type: none"> • Brian Zelenke (NOAA IOOS Office) • Aaron Colohan (NOAA IOOS Office)
10:30 – 10:40 (15 min.)	Coffee Break	
10:40 – 11:30 (50 min.)	Lightning Talks <ul style="list-style-type: none"> • Fresh water HFR at the Straits of Mackinac and importance of its data. • A new NOAA-funded HFR project in the northern Gulf of Mexico • Patterns from spectra • RATES Project • Raising/Lowering Antenna with Gin Pole • HFR Online Outage Reporting Tool (HOORT) • Bistatic CODAR observations for ionospheric research 	<ul style="list-style-type: none"> • Christopher Pinnow (MTU) • Kehui “Kevin” Xu (LSU) • Tim Stolarz (Rutgers) • Chris Fuller (RATES) • Teresa Updyke (ODU) • Guiomar López (SOCIB) • Stephen Kaeppler (Clemson)
11:30 – 12:00 (30 min.)	UH Generic Radar (G-HFDR)	Pierre Flament (University of Hawai'i at Manoa)
12:00 – 13:00 (60 min.)	Lunch	
13:00 – 13:30 (30 min.)	Waves <ul style="list-style-type: none"> • Software to reprocess signal to waves <ul style="list-style-type: none"> ◦ SeaSonde R23, HFRNet waves display 	<ul style="list-style-type: none"> • CODAR
13:30 – 14:30 (60 mins)	Reprocessing/Archiving <ul style="list-style-type: none"> • Reprocessing • Local Archiving • Pattern Archiving 	<ul style="list-style-type: none"> • Hugh Roarty (Rutgers) • Uchenna Nwankwo (TAMU)
14:30 – 14:45 (15 min.)	Coffee Break	
14:45 – 15:30 (45 min.)	IOOS HFR Data Assembly Center effort <ul style="list-style-type: none"> • RangeSeries Server • HFRNet replacement • Future of rowg.org 	<ul style="list-style-type: none"> • Shane St. Savage (Axiom) • Brian Zelenke (NOAA IOOS Office)
15:30 – 16:00 (30 min.)	Meeting Wrap-Up <ul style="list-style-type: none"> • Plans/location for next ROWG meeting? • Follow-up actions based on this ROWG-13? 	Kevin Martin (USM)
16:00 – 16:50 (50 min.)	Site Visit (to single-antenna 25 MHz SeaSonde): This HFR site is a 15 min. drive from USM.	Kevin Martin (USM)