![IOOS | Integrated Ocean Observing System]

U.S. IOOS 2024 DMAC
VIRTUAL ANNUAL MEETING AGENDA
April 2 - 4

DAILY SCHEDULE [approximate, all times EDT]

1:00 - 1:45 PM: Presentations/Plenary
2:15 - 2:30 PM: Break
2:30 - 3:30 PM: Presentations/Plenary
3:30 - 3:45 PM: Break
3:45 - 4:45 PM: Breakout Discussion Groups
4:45 - 5:00 PM: Breakout Report Outs/Wrap up

Tuesday, April 2nd

1300 Introduction/Meeting Kickoff (IOOS DMAC Team) - slides

1310 RA DMAC Lightning Talks (Regional Association DMAC representatives) - slides

- Each RA will provide a 5-minute update of their regions' DMAC activities

1405 Exciting Times for CIOOS (Ray Brunsting) - slides

- Organizational and technical updates planned for CIOOS
- CIOOS national and regional information service updates

1425 Break

1435 Advancing Ocean Research: Open Source Modeling Tools (Soroosh Mani, George Breyiannis, Atieh Alipour, Fariborz Daneshvar) - slides

- Updates on Ocean Modeling Collaboration efforts
- StormEvents' USGS event-based sensor data retrieval Python module
- Autoval Skill Assessment: A Searvey use case

1505 Machine learning approach to QC results (Sage Osborne)

- Update on PMEL development of a machine learning approach to data quality control
  - Development path - successes and lessons learned
  - QC results assessment

1520 Developing community standards for AI-ready open environmental data (Douglas Rao) - [slides](#)

- First version of the AI-ready data checklist published via Earth Science Information Partners
- NCAI's planned activities to develop prototype tool to automate the AI-readiness assessment

1535 Break

1545 Breakout Discussions

Breakout #1: NOS hydrodynamic model data prep for stakeholders Leads: Chris Barker, Saeed Moghimi	Session Description: ● NOS runs a number of Operational Forecast Systems (OFSs) in support of its mission(s). But in addition to its core missions, the results of these modeling systems are useful to a wide variety of stakeholders, inside and outside of NOAA. In this breakout session, we seek to understand what various stakeholder use cases are, and therefore what tools can be developed / identified to support those use cases. Notes: 📄 Breakout #1 NOS hydrodynamic model results:…

Breakout #2: QARTOD: A path forward
 	
Leads: Eugene Burger, Kathleen Bailey, Matthew Biddle
	Session Description:
	● State of QARTOD
	  ○ QARTOD Coordinator role / update
	● Revisiting QARTOD future developments
	  ○ Others to add?
	  ○ Are all relevant?
	
	Notes:
	
	📄 Breakout #2: QARTOD: A path forward

Breakout #3: Reporting/identifying AI-generated data and AI-assisted QC operations Leads: Felimon Gayanillo, Hassan Moustafid	Session Description: ● Start the discussions on how AI-generated data are shared and QC'd, if needed, to ensure credibility and adherence to community standards. Notes: 📄 Breakout #3: Reporting/identifying AI-generate…

1645 Breakout Report Outs & Daily Wrap Up

1700 Day 1 End

Wednesday, April 3rd

1300 Daily Meeting Overview/Kickoff (IOOS DMAC Team)

1305 IRA project & Equitable Service Delivery DMAC coordination (Roxanne Carini, Kelli Paige) - [slides](#) and [slides](#)

- What is Equitable Service Delivery (ESD)?
- Overview of DMAC components of the RA's Inflation Reduction Act (IRA) Topic 2 proposal
- How can DMAC support ESD for the proposed IOOS IRA work?

1335 Offshore wind & wildlife data ecosystem: Standard approaches, data management and governance (Emily Shumchenia) - [slides](#)

- Funders, experts, and decision-makers are using [RWSC](#) and its [Science Plan](#) to coordinate data collection and management related to offshore wind and wildlife in U.S. Atlantic waters.
- The Science Plan recommends existing repositories and data standards for each type of wildlife/environment data being collected for offshore wind planning and development and highlights gaps in data management infrastructure and capacity for future funding

1355 OTT Offshore Wind Data Management (Kelly Knee and Riley Young Morse)

- Brief US offshore wind (OSW) development overview (optional, but possibly not all attendees will be familiar with locations of lease areas, status, etc)
- Overview of expected OSW Data metocean collection (when/why/how metocean data is being collected to support OSW)
- Overview of project goals and proposal technical approach

1415 Break

1430 Coastal Coupling Cloud Sandbox update - IOOS and NOS implementations (Patrick Tripp, Tiffany Vance) - [slides](#)

- Coastal Coupling Cloud Sandbox update - IOOS and NOS implementations
- Update on the IOOS Sandbox – Patrick Tripp
- Update on the Coastal Coupling [NOAA] Sandbox
- Getting more models into the Coastal Coupling Sandbox – Tracy Fanara
- Next steps for the Coastal Coupling Sandbox – Tiffany C. Vance
- Discussion and Questions

1500 Beyond Reaching for the Clouds: Project Outcomes and Transition to Related Projects (Chris Paternostro, Jonathan Joyce, and Kelly Knee)

- Brief overview of Reaching for the Clouds and summary of key outcomes and recommended next steps
- Application of RFC outcomes to the CO-OPS OceansMap project
- Application of RFC outcomes to COMT Cyberinfrastructure

1530 Break

1545 Breakout Discussions

Breakout #1: Cloud Native Approaches for Data Mgmt and Access Leads: Jonathan Joyce, Matt Iannucci	Session Description: ● Discussion on best practices and cloud native approaches for managing ocean data on cloud platforms and associated software packages and data formats (i.e. zarr/kerchunk, xarray, xpublish). Notes: 📄 Breakout #1: Cloud Native Approaches for Dat…
Breakout #2: NOAA Operational Modeling Requirements/Expectations Leads: Roxanne Carini, Avichal Mehra, Dawn Petraitis, Wei Wu	Session Description: ● How can we ensure that new data collected by IOOS RAs in partnership with communities is used to inform forecasts (e.g., consulted when forecast alerts are being sent out, used for model hindcast validations, or directly assimilated into models)? ● Improve two-way communications between NOAA forecast offices (at federal and regional levels) and IOOS RA DMAC teams such that everyone is aware of data assets and both sides of the equation can work to lower barriers and support improved forecast delivery to remote, frontline, underserved coastal communities. Notes: 📄 Breakout #2: NOAA Operational Modeling Req…

1645 Breakout Report Outs & Daily Wrap Up

1700 Day 2 End

Thursday, April 4th

1300 Daily Meeting Overview/Kickoff (IOOS DMAC Team)

1305 Progress on eDNA data flow and links to OBIS (Katherine Silliman) - [slides](#)

- Tools to prepare eDNA biodiversity data for submission to OBIS/GBIF
- Unique challenges for eDNA data when sharing to or extracting from OBIS

1325 Incorporating Omics Data into Seagull (Joe Smith, Sneha Bhadbhade) - [slides](#)

- Background on need for Omics data collection in the Great Lakes (Lake Erie HABs, etc.)
- Design and implementation of Omics functionality under the GLOS Seagull platform

1350 Wellness Session (George Mitzner) - [slides](#)

- This wellness discussion picks up from the Stress in the Geosciences last year, attending to the interaction between person and organization
- Stress and Burnout will be described, along with organizational risk factors present across industries
- Self-Care and Boundaries will be offered as person-centric mechanisms by which to improve your (worker) wellbeing
- A diagnostic self-care tool - 📄 Self Care Diagnostic.pdf (try it out!) - will be presented along with additional resilience techniques. Please join us for an informative session!

1440 Break

1455 Introduction to a glider acoustic data pipeline for the IOOS Glider DAC (Rob Cermak, Mark Yamane) - [slides](#)

- Introduction to the active acoustic dataset, toolsets and pathways
- Dataset integration challenges and successes with a look towards the future

1515 Mini-Apps: Creating tailored experiences for MARACOOS OceansMap users (Sheri Schwartz) - [slides](#)

- Overview of tailored MARACOOS Mini-Apps that leverage OceansMap data, visualizations, and dashboards to serve diverse user groups, better meet stakeholder needs, and remove barriers to data accessibility
- Discussion and group brainstorming to identify new user groups that could be better engaged with custom Mini-Apps and learn from similar experiences across the community.

1535 Breakout Discussion

Breakout #1: 2024 IOOS Code Sprint Topic Planning and Discussion/Q & A Leads: Mathew Biddle, Micah Wengren	Session Description: ● Those interested in participating in the [2024 IOOS Code Sprint](#) (in person or virtually) should join to discuss the list of [potential 2024 sprint topics](#) that have been put forward. We'll discuss these ideas further as a group, and if possible gauge interest level in each topic.

	Notes: 📄 Breakout #1: 22024 IOOS Code Sprint Topic Pl...

1700 Meeting Adjourn