

**U.S. IOOS 2020 DMAC
VIRTUAL ANNUAL MEETING AGENDA
October 13 -15**

DAILY SCHEDULE [all times Eastern]:

2 - 3:30 PM: Presentations/Plenary

3:30 - 3:45 PM: Break

3:45 - 5:00 PM: Breakout Discussion Groups

Tuesday, October 13th

Join the DMAC discussion on Slack: ioos.slack.com [join link](#).

1400 Introduction/Meeting Kickoff (Micah Wengren) - [slides](#)

- Virtual meeting logistics

1405 US IOOS Overview/Snapshot for 2020 (Carl Gouldman)

1415 IOOS Ops Div Updates (Derrick Snowden) - [slides](#)

- Personnel Updates (Matt Biddle, Tracy Fanara, Brian Zelenke)
- [NOFO](#) and COMT NOFO timelines

1430 CIOOS Updates (Mike Smit, Ray Brunsting) - [slides](#)

- Progress made since the 2019 DMAC meeting (CIOOS Phase 1)
- Priorities and plans for CIOOS Phase 2 (2020-2022)

1445 QARTOD Implementation and `ioos_qc` Improvements (Kyle Wilcox) - [slides](#)

- Standard config file for running quality tests against arbitrary datasets
- Applying and adapting quality control configurations for moving platforms
- Generating ioos_qc quality function parameters based on climatological datasets

1505 NOAA AI Strategy, NOS AI/ML WG (Greg Dusek, Hassan Moustahfid) - [slides](#)

- Status of NOAA AI Implementation Plan
- Upcoming changes to the NOS AI Working group

1520 DMAC Data Services Evolution: Past, Present & Future (Micah Wengren, Kyle Wilcox) - [slides](#)

- History of DMAC services & usage considerations
- Evolving DMAC to meet user needs

1545 Breakout Discussions

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| <p>Breakout #1: NOAA AI Strategy/Implementation plans and AI/ML activities or planned activities in the regions</p> <p>Leads: Hassan Moustahfid, Greg Dusek</p> <p>Notes: Oriana Villar</p> | <p>Discussion Topics:</p> <ul style="list-style-type: none"> ● NOAA AI Strategy/Implementation plans ● Ask each region to give a brief on their AI ongoing/planned activities ● Discussion with the objective to come up with idea how to accelerate AI activities in the regions |
| <p>Breakout #2: DMAC Data & Services Discussion, Future Plans</p> <p>Leads: Rich Signell, Filipe Fernandes, Micah Wengren</p> <p>Notes: Filipe Fernandes</p> | <p>Discussion Topics:</p> <p>Current DMAC status and potential activities in the areas of:</p> <ul style="list-style-type: none"> ● Data Services Usability/Interoperability - ERDDAP, OPeNDAP, WMS, etc ● Cataloging ● Marketing DMAC & User Outreach |

1700 DMAC-Themed 'Happy Hour' (Optional)

Wednesday, October 14th

1400 IOOS ERDDAP Deployment Update (Kathy Bailey) - [slides](#)

- Update on progress in IOOS ERDDAP transition & NBDC/GTS testing

1405 ERDDAP 2.10 Update (Bob Simons) - [slides](#)

- New features in ERDDAP v2.10.
- Questions and answers about ERDDAP

1430 Dashboards and Monitoring (RPS/Axiom)

- ERDDAP Dataset monitoring and alerts using Prometheus and Grafana (Jess Austin) - [slides](#)
- DMAC monitoring dashboards using InfluxDB and Grafana (Bob Fratantonio) - [slides](#)

1450 Evolution of the IOOS Glider DAC and Potential Applications for other DMAC Realms (John Kerfoot, Bob Fratantonio) - [slides](#)

- Backend hardening
- Faster updates to datasets
- Data Provider Dashboards and Tools

1510 GCOOS-Data Visualization for Gliders and MBON (Bob Carrier) - [slides](#)

- A brief overview of the look and feel of the newest GANDALF interface
- Our streamlines overlay using the leaflet-velocity library
- Implementing live 3D visualizations of glider and ARGO data using Python and Plotly
- The proposed GCOOS DMAC Product Deployment Architecture Guidelines

1545 Breakout Discussions

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| Breakout #1: ERDDAP & IOOS ERDDAP Implementation Q&A Leads: Bob Simons, Micah Wengren Notes: Micah Wengren | Discussion Topics: RA Round Robin: Status of ERDDAP/GTS migration, issues encountered and outstanding questions for group discussion Latest ERDDAP updates and considerations for IOOS DMAC, Q & A session with Bob Simons. |
| Breakout #2: Experience with DwC and OBIS submission <u>Panelists:</u> Vicky, Miguel, Marion, Diana, and Sarah <u>Moderator:</u> Abby | Discussion Topics: This panel discussion will provide insights and experiences with the Darwin Core (DwC) standard as well as submission of data to OBIS. Each panelist will provide the audience with a five minute overview of their work with |

Notes: Matt Biddle

standardizing biological data and sharing with OBIS including what worked well, what was harder than expected, and any surprises with the process. There will be approximately 35 minutes left for the audience to ask questions of panelists.

1700 DMAC-Themed 'Happy Hour' (Optional)

Thursday, October 15th

1400 Cloud Stuff - Modeling Sandbox and NOAA BDP Datasets from the RAs? (Tiffany Vance) - [slides](#)

- PO cloud activities - cloud sandbox for coastal models and sensor data ingest
- NOAA Big data Program - outline of activities and criteria for adding datasets
- Candidate datasets from the RAs?
- RA cloud-based projects - open mic

1420 Cloud Sensor Data Ingest Project (Micah Wengren, Bob Fratantonio, Bob Fleming) - [slides](#)

- Project goals & prototype design on AWS
- Real-time sensor data streaming demo

1435 NCEI Archive Update (Julie Bosch, Matt Biddle) - [slides](#)

- NCEI Archive updates
- Archive activities for the next year

1445 Applying IOOS Data Management Techniques to OOI Data (Jessica Austin) - [slides](#)

- The new OOI Data Explorer tool provides access to OOI data via IOOS/CF-compliant datasets served via ERDDAP. In this talk, we discuss the process to create those datasets, and give a brief demo of the new tool

1500 Exploring the CKAN API for creating dynamic IOOS workflows (Rich Signell)

- CKAN vs CSW

1515 NWM Data Access (Dalton Kell) - [slides](#)

- FY2019 NOAA Water Initiative NWM Data Access project overview
- Challenges of accessing NWM BDP data stores; how prototype API helps
- Demo of prototype cloud-based NWM data access/aggregation API - <http://prototype.ioos.us/nwm>

1545 Breakout Discussions

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| <p>Breakout #1: IOOS Modeling Strategy/Numerical Modeling on the Cloud</p> <p>Leads: Nick Rome, John Wilkin, Rich Signell, Santha Akella, Kelly Knee</p> <p>Notes: Sheri Rahman, Brian Zelenke</p> | <p>Discussion Topics:</p> <ul style="list-style-type: none"> ● Status of regional modeling activities ● Challenges and opportunities ● Post-processing/analysis: best practices within the community, internal and external to IOOS ● RPS' Cloud Sandbox, Pangeo, JupyterHub ● COMT opportunity update |
| <p>Breakout #2: SanctSound and Soundscapes Data Management</p> <p><u>Panelists:</u> Carrie Wall Bell, Leila Hatch, Rob Bochenek, Jennifer Brown</p> <p><u>Moderator:</u> Gabrielle</p> <p>Notes: Matt Biddle</p> | <p>Discussion Topics:</p> <p>This panel discussion will focus on the scope and progress of the SanctSound project and address future directions for soundscape development, data management, and products</p> |
| <p>Breakout #3: Data management techniques and metadata standards for audio and video datasets</p> <p>Leads: Kyle Wilcox</p> <p>Notes: Oriana Villar, Debra Esty</p> | <p>Discussion Topics:</p> <ul style="list-style-type: none"> ● Users / Use cases / Access requirements ● Metadata standards ● Data Volumes |

1700 Adjourn Meeting