

# **U.S. IOOS DMAC 2018 ANNUAL MEETING**

## **AGENDA**

**May 21 - 23, 2018**

SILVER SPRING CIVIC BUILDING

One Veterans Place

Silver Spring, MD 20910

Fenton Room

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### **Remote Participation:**

WebEx: <https://mmancusa.webex.com/mmancusa/j.php?MTID=ma5552a59104d734671e162bd7395b7ac>

Meeting number: 741 610 294

Meeting password: JswPia\$2

Audio: 1-866-759-4289 (US) Call-in toll-free number (Verizon)

1-210-406-8964 (US) Call-in number (Verizon)

Attendee access code: 143 876 9

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## **Monday, May 21st**

IOOS Program Office updates; IOOS Biology and ATN; QARTOD; an afternoon discussion session organized and led by RA data managers.

**0830 Arrival, coffee**

**0900 Introduction/Meeting Kickoff (Micah Wengren)**

**0905 Opening Presentation (Carl Gouldman, IOOS Director)**

- NOAA and IOOS Priorities for the next couple years

**0930 Program Office Updates (IOOS PO Staff)**

- Program Office Priorities Relative to DMAC (Derrick Snowden) - 20 mins
- DMAC Overview/Outcomes of RA DMAC Webinars (Micah Wengren) - 10 mins
- Certification Audits (Kathleen Bailey) - 10 mins
- Compliance Checker scoring update (Jennifer Bosch) - 10 mins
  - Overview of changes found in the V. 4.0.0 release, including the new scoring system
- Questions/Discussion - 25 mins

**1045 Break**

## **1100 IOOS Biology Updates**

### **MBON and Biological Data Management (Gabrielle Canonico/Jennifer Bosch)**

- MBON Updates, including outcomes from the biodata training, new partnerships, and new datasets
- MBON Portal: Enhancements, Status & Plans

### **ATN Update (Bill Woodward/Rob Bochenek, Axiom)**

- The Operational ATN DAC: Status & Plans

## **1200 Lunch**

### **1300 RA Data Manager Coordinated Session (RA Data Managers)**

This session is an opportunity for us to present perceived challenges and then hear how others are addressing those challenges, or identify how we can more effectively work together to find solutions, or at least an approach. Proposed discussion topics:

- Introduction: Reiterate the importance of Cross-RA/IOOS sharing, which was one of the 2017 Spring DMAC Meeting next steps directions. - Tad Slawecki (15 min)
- Analytics - Patrick Daniel (25 min)
- Meeting IOOS RICE and DMAC requirements - QARTOD, NCEI, DACs, GTS, ... - Jim Potemra (35 min)
- Monitoring DMAC health - what should we measure and how? - Emilio Mayorga (25 min)

## **1440 Break**

### **1455 RA Data Manager Coordinated Session (Continued)**

- Improving operations: virtualization, containerization, sublimation (into the cloud) and development tools and toolboxes - what do we use? - Tad Slawecki and Vicky Rowley (40 min)
- Open discussion - Emilio Mayorga (25 min)

### **1600 Discussion - QARTOD (Mark Bushnell)**

- QARTOD update
- Implementation updates (group)
- Discussion: Improving collaboration (Forming a technical working group)
- Discussion: Future expansion of data gathering and data management

**1645 Matt Howard Tribute (Felimon Gayanilo)**

**1700 Adjourn Day 1**

**Happy Hour at Not Your Average Joe's**

8661 Colesville Rd Suite C-153, Silver Spring, MD 20910 (on the corner of Colesville Rd & Fenton St) ~ 3-5 min walk.

## **Tuesday, May 22nd**

Data Management Infrastructure: THREDDS, ERDDAP, and SOS; IOOS Federal and international partners and ocean observing communities; model visualization.

**0830 Arrival, coffee**

**0900 AWIPS (Ronla Henry, NWS/AWIPS Program Manager)**

- Overview and capabilities
- Handling non-NOAA data

**0930 NDBC Presentation (Dawn Petraitis, NWS/NDBC)**

- NDBC Improvements to Data Quality and Partner Metrics Tracking

**0950 Coastal and Global Observations/JCOMM (Derrick Snowden/Kevin O'Brien, PMEL)**

- What is JCOMM?
- Overview of JCOMM OCG activities
- IOOS connections to JCOMM

**1010 Introduction to the Data Management practices and challenges for large multi national observation programs (Steve Diggs, UCSD)**

- What are the IOOS connections?
- How does this help bridge the coastal > deep ocean gap?

**1030 Break**

**1045 THREDDS Update (Ethan Davis, UCAR/Unidata)**

- THREDDS 5.0 update
- Discussion/Questions

**1200 Lunch**

**1300 IOOS ERDDAP Implementation and Attribution (IOOS PO Staff/Kevin O'Brien)**

- IOOS PO ERDDAP Project (Micah Wengren) - 10 mins
- Attribution (Kathleen Bailey) + Attribution Discussion Topics (Becky Baltes) - 20 mins
- Open Access to GTS Discussion/Next Steps (Kevin O'Brien) - 20 mins
- Discussion: IOOS ERDDAP Implementation Planning/Migrating from SOS to ERDDAP - 50 mins
  - Next steps in moving towards implementation
  - Gather input from the community on existing challenges in publishing data to ERDDAP and concerns and potential pitfalls to be aware of in an SOS to ERDDAP transition

**1440 Jupyter Notebooks (Rich Signell, USGS)**

- Accessing ERDDAP services programmatically in Python
- Scalable data-proximate computing to analyze large model and remote sensing data

**1510 OTN and CIOOS updates (Jonathan Pye, OTN)**

- Status of OTN in the US regions
- Recent and upcoming collaborations with ATN
- Recent OBIS workshop to develop an ENV standard for animal tracking data
- CIOOS status update / plan for collaboration

**1530 Break**

**1545 Discussion of Technologies and Best Practices for Forecast/Model Output Visualization (Tom Shyka, NERACOOS/Becky Baltes)**

- Intro (Tom Shyka) - 10 mins
- Who are your intended audience for these visualizations?
- What issues/concerns do the RAs have? 2 min each?

**1700 Adjourn Day 2**

**Happy Hour at McGinty's Pub House**

911 Ellsworth Dr (entrance is on Ellsworth, across from H&M and DSW). Upstairs bar. 3 min walk.

## **Wednesday, May 23rd**

Data management problem solving; Sensor Map/MBON portal hands-on workshop; NOAA Total Water project/cloud; webcams.

### **0830 Arrival, coffee**

### **0900 SECOORA/WebCAT Project: Web Camera Testbed (Tiffany Vance/Kyle Wilcox, Axiom)**

The WebCAT project is installing web camera along parts of the East Coast. This presentation will describe the project and the technical challenges in processing and displaying the video data.

### **0915 Data Management Best Practices Round Robin (All)**

15 minutes per topic, open floor. This is an opportunity to discuss the ways in which you work with these data and share any tips and tricks you have developed. Tiffany Vance emcee discussion.

Topics:

- Real-time data update
- Biological data
- Gridded data (netCDF/GRIB/etc)
- Moorings
- Gliders

### **1030 Break**

### **1045 Data Management Best Practices Round Robin (Continued)**

- Other moving platforms (wave gliders, Saildrone, ships of opportunity, ferries)
- Video data
- Acoustic receivers / sat-tagged animals
- Static GIS (shapefile, relevant web services such as OGC WFS, etc.)

### **1140 Data Upload Tool (Bob Fratantonio, RPS/ASA)**

- A web interface to aid in the creation, validation, and management of metadata
- Bridging the myriad of Metadata Standards
- Data conversion to a common data format
- Use cases for the GliderDAC, COMT, USACE, and NERACOOOS.

## **1200 Lunch**

### **1300 Hands On Workshop with Sensor Map and MBON Portal (Axiom)**

- 1:00 pm - Next Gen IOOS/MBON Data Portal Overview & Enhancements (Stacey Buckelew)
- 1:10 pm - Portal Data Pipeline and Backend Infrastructure (Kyle Wilcox)
- 1:25 pm - v2 Sensor System & Sensor Dashboards (Jessica Austin)
- 1:40 pm - Putting it All Together: Hands-on Use of MBON Data Portal & Environmental Sensor Data Layer (Rob Bochenek)
- 2:20 pm - Other Applications Discussion & Feedback

### **1430 Partly Cloudy and Mostly Clear (Brian McKenna, RPS/ASA)**

In support of NOAA's R&D transition policy and Unified Modeling Framework, IOOS is looking at how on-demand (cloud) computing can be an option to evaluate new research and products and create a new space for collaboration. The challenges and opportunities that arise in such environments are sensitive to many requirements including those from data management. Initial results of cost analyses from development through potential for operations will be reviewed.

## **1500 Meeting Adjourn**