# **U.S. IOOS DMAC TECHNICAL SESSION**

**AGENDA**

**MARCH 16 - 17, 2017**

NOAA SILVER SPRING COMPLEX

SILVER SPRING, MARYLAND

SSMC3 4th Floor Conference Center

*“Meeting Stakeholder Needs”*

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# **Thursday, March 16th**

**0830** **Arrival at NOAA SSMC 3, Security, Morning Coffee/Breakfast**

**0900 Review of DMAC/Directors Planning Meeting (Derrick Snowden, IOOS)**

**0945 Attribution to sources in Regional and National Products (Kathy Bailey, IOOS)**

* What are the needs for attribution to regional and/or global partners? What do you want to see in an attribution? Levels of attribution?
* What are the standards that are relevant to the problem? netCDF, SOS etc. What needs to be where for the national products to able to find the information you want presented?
* How does using the standards correctly feed Catalog?
* How might the attribution block EDS/Sensor Map look?

**1015 Break**

**1030 ERDDAP (Bob Simons, NOAA SWFSC; Kevin O’Brien, NOAA PMEL)**

* ERDDAP overview, new feature review, archiving features in collaboration with NCEI (Bob Simons)
* OpenGTS project overview, ERDDAP capabilities, discussion (Kevin O’Brien)
* Discussion

**1200 Lunch**

**1300 ATN/OTN (Bill Woodward, IOOS; Brad Covey/Jon Pye, OTN)**

During this session we will present the implementation of acoustic animal telemetry nodes supported by the OTN in both the MARACOOS and SECOORA Regions. Jon Pye from OTN will describe the architecture, the data schema, data pathways and interoperability of the nodes. Interactive discussion will follow which will address the topics:

* Connectivity between the nodes and:
  1. OTN Halifax
  2. ATN DAC in Monterey
* Sustained O&M; how do we keep them going and who does it?
* Applying National & International Data/Metadata Standards
* Analyzing how MATOS (MARACOOS) & GLATOS (GLOS) capabilities can support both regional and national needs

**1400 Cloud Modelling Environment (Brian McKenna, ASA)**

* Brian Mckenna will present on how to take advantage of cloud environments for atmospheric and oceanographic numerical models. He will discuss what environments are provided and how they can impact various modeling efforts.

**1430 GeoNotebook (Jonathan Beezley, Kitware)**

**Slides not available**

* Demonstration of [GeoNotebook](https://github.com/OpenGeoscience/geonotebook) extension to Jupyter Notebook
* Potential integration with IOOS netCDF data

**1500 Break**

**1515 IOOS Catalog Update (Luke Campbell, ASA)**

* Overview of our progress towards bringing IOOS metadata into a CKAN-based catalog. Updates will include the architecture and workflow of the new catalog system and the IOOS Registry.

**1530 RA/DMAC Session: Lightning updates: successes/challenges in DMAC**

**Slides available:**

* GCOOS
* MARACOOS
* NANOOS
* NERACOOS
* SECOORA

**1700 End Day 1**

**Reception (Lincoln’s BBQ, Silver Spring. Happy hour 5 - 7 pm, bar area.)**

**March 17**

**0830** **Arrival at NOAA SSMC 3, Security, Morning Coffee/Breakfast**

**0900 Esri open source and geoanalytics projects (Brett Rose, Esri)**

* Esri and open standards
* RAs and potential GIS-based users
* netCDF ingest and analysis in Arc
* Esri 52N/SOS project
* AGS SpatioTemporal Data Store/GeoAnalytics Server/GeoEvent Server (real-time obs)

**1000 Archiving Update/NCEI (Matt Biddle, NCEI)**

* Co-present with PacIOOS (Jim Potemra) on status and lessons learned of archiving RA data at NCEI

**1030 Axiom Big Data Analysis/AIS (Rob Bochenek, Axiom)**

* High-compute cluster application for big data processing - *NOAA Hydrographic Health Map, Vessel AIS data*
* Data stream comparisons and climatologies - *IOOS National Sensor Map*
* Dashboard tool for visually inspecting sensor data - *IOOS Sensor Dashboard*

**1115 Improving delivery and use of DMAC services (Kyle Wilcox, Axiom; Rich Signell, USGS)**

* Docker/Conda improvements for service delivery (Kyle Wilcox, Axiom)
* Jupyter Notebooks and Web Client demos using DMAC services (Rich Signell, USGS)

**1200 Lunch**

**1300 IOOS PO News/Wrap Up/Discussion/Etc…(Micah Wengren, IOOS)**

* IOOS GitHub Organizational management - potential changes, how to deal with them.
  1. Repository ownership/commit rights
  2. Teams
* Thoughts on monthly webinars?
  1. What topics would you like to hear about and how should we collect ideas?
  2. Benefits or success stories from certifications?
  3. Stories of RAs diversifying their data management funding from other agencies?
* Thoughts on this meeting structure, should we aim for a 3 day meeting in the future?

**1400 Adjourn Meeting**