

**IOOS DMAC Meeting  
IOOS Program Office  
Silver Spring, MD**

**MAY 27 - 29, 2015**

**Agenda**

**Wednesday, 27 May**

**1300 Introduction**

**1315 IOOS Program Update**

Presenter: Derrick Snowden, Rob Ragsdale

*Abstract:* The deployment of service upgrades will become more routine and it is reasonable that RA DAC managers should start factoring these upgrades into their work schedule. By providing an update and the progress anticipated for DMAC services in the next year, we can have a discussion on the expectation for making upgrades and maintaining the operation of services that are registered in the IOOS Catalog. The number of unsuccessful catalog harvests is concerning for IOOS as an operational system. We will have discussion of the causes and what can be done to reduce the number of these unsuccessful harvests. We may discuss the compliance checker here.

**1415 Data Management for Animal Tracking Activities**

Presenter: Hassan Moustahfid and Jon Pye

*Abstract:* The Ocean Tracking Network deploys, operates, and manages arrays of acoustic receivers and monitoring equipment in oceans around the world to document the movements of marine animals with acoustic tagging systems. Jon Pye (portal manager) will give a short talk on how OTN is adopting community standards and services (including AAT standards and parallel implementation of GeoServer and ERDDAP services). He will also talk about OTN data visualization and tools.

Hassan will present on the Animal Telemetry Network Data Assembly Center web portal launched this year. There will be a discussion

about this DAC to specifically get feedback from you and explore how the DAC can be connected with your services to include your data. Are you working with ATN data now or planning to work with ATN in the near future. what's your plan to transfer ATN data to ATN DAC etc. this kind of questions will stimulate discussion to identify areas we can help RAs to implement ATN standards and ways to transfer ATN to DAC.

**1500**

**RA Open Session**

Presenter: Jim Potemra

*Abstract:* This will be a moderated, open-discussion about issues regarding data management that individual regions are facing. Topics may include challenges for DM groups in the certification process, future plans and funding levels for the upcoming five-year renewal proposals, personnel/resource challenges, etc. RA DMAC leads may also be asked to help define ways that the IOOS PO can assist the regions.

**1730**

**Wednesday Social**

**Thursday, 28 May**

**0900**

**Marine Biodiversity Observation Network and Biological Data Enrollment Procedures**

Presenters: Gabrielle Canonico, Frank Muller-Karger, Rob Bochenek, Matt Howard, and Jenn Patterson

*Abstract:* A high-level overview will be given on the MBON and presentation of data sets being collected in each of the MBON pilot project regions and demonstration of data visualization tools will be given. We want to generate a discussion on the MBONs' pilot projects and which key biological datasets should be chosen for integration into DMAC, the design of computations of a biodiversity index in close collaboration with the MBONs, visualization and analysis in the context of other RA data through the DMAC tools, and tracing transfer pathways for the biological/biodiversity data to migrate to permanent archives.

**1000**

**IOOS Biological Enrollment Process**

Presenter: Hassan Moustahfid and Philip Goldstein

The first part of this session will present a high level overview of the enrollment process, from aligning data logically to the DMAC standard, to configuring data for web services, tools, and products, to registration in the IOOS Catalog, to data flow for OBIS availability and NCEI archival.

The second part of this session will propose a training plan for IOOS regions, to obtain DMAC biological data skills, to enable regions and partners such as MBON, to adapt their use of IOOS Biological Data Services and the enrollment process, to their science and data serving requirements. The training plan will be a proposal, for discussion and refinement during the DMAC meeting. The start-up of MBON is an opportunity both to deploy IOOS Biological Data Services, and to adapt biological data procedures to assist the science and management needs of data communities such as MBON.

**1030**

**BREAK**

**1045**

**RA Open Session Report**

**1145**

**LUNCH BREAK**

1245

**Glider DAC**

Presenters: John Kerfoot and Becky Baltes

*Abstract:* Tutorial on how to submit data to the glider DAC.

1345

**UAF/OSMC**

Presenters: Kevin O'Brien and Eugene Burger

*Abstract:* Kevin O'Brien and Eugene Burger are from NOAA's Pacific Marine Environmental Laboratory in Seattle, WA. They will address ways they are working toward creating integrated data sets. They will talk about the United Access Framework (UAF) project and modernization of the Tropical Pacific Observing System (TPOS) (PMEL is building an integrated framework to provide access to real-time and delayed mode data from various platform networks making observations in the Tropical Pacific). They will also present progress on creating an ERDDAP interface to the Observing System Monitoring Center (OSMC) database. OSMC contains almost 10 years of observations harvested from the Global Telecommunications System and represents one of a very few places the public can access the real time observations that are available to the operational modeling centers. One group at Rutgers is assimilating data from OSMC in real time. PMEL is building an integrated framework to provide access to real-time and delayed mode data from various platform networks making observation in the Tropical Pacific. The United Access Framework (UAF) has been developing a capability and continues to work on providing NOAA-wide and NOAA partner CF-compliant catalogs that can be accessed by known clients and are readily accessible by users. An objective of our discussion on this topic is to generate ideas for collaboration that can be used to rekindle some momentum at NOAA for this project. The purpose of the presentation will be to share ideas and to provoke a conversation of a pan-regional access point for ocean observations as proposed in the IOOC Modeling Strategy.

1515

**BREAK**

1530

**Exploiting IOOS: A Distributed, Standards-Based Framework and Open-Source Software Stack for Searching, Accessing, Analyzing and Visualizing Met-Ocean Data**

- Overview of the whole framework/software stack for modeling and obs data. Rich: 20 min.
- SECOORA model skill assessment project (demonstration of the stack). Filipe/Rich: 20 min
- The IOOS Binstar channel, the IOOS Python Environment (components of stack) and Wakari Enterprise (multi-user login to use stack). Filipe/Rich: 10 min
- sci-wms (key component of stack). Kyle: 20 min
- Questions/discussion. All: 20 min

**1700**

**Meeting adjourns**

**1730**

**Informal Social Event**

**Friday, 29 MAY**

**0830**

**Quality Control and QARTOD**

Presenters: Luke Campbell, Tad Slawecki

*Abstract:* Findings from investigations on the performance of compression versus flags, programming and notebook examples will be explored. The discussion during this session should answer questions on how to disseminate data checked with QARTOD tests and the future of QARTOD.

**0930**

**Certification**

Presenters: Dave Easter, Derrick Snowden, Jim Potemra.

*Abstract:* A brief presentation will be given about IOOS certification and what we have learned so far in the process by way of working through our first application with PacIOOS. However, this is intended to be mostly discussion and time for answering new or lingering questions that you have about the process or requirements.

**1030**

**BREAK**

**1045**

**Archive**

Presenters: Matt Biddle

*Abstract:* NCEI is supporting the archiving of IOOS regional data. NCEI staff will be giving an update on the development of the NCEI-IOOS Data Pipeline. Certification requirements that have to be met to archive data will be discussed. Tools NCEI have developed to submit data will be demonstrated. NCEI will provide a brief on the RA-archive projects that were piloted to archive regional data.

**1145**

**EPA In-Situ Water Quality Data (30 minutes or less)**

*Abstract:* Tad Slawecki, from LimnoTech, is helping to develop a recommendation for integrating in-situ water quality data into their enterprise. The integration method might combine components from CUAHSI, IOOS, USGS - NWIS, and EPA WQX/STORET. Feedback would be helpful.

**1215**

**LUNCH BREAK**

**1315**

**Meeting Wrap-up**

What areas do we need to improve in?

- How can we provide better documentation?
- Does everyone know where to go to get documents for guidance and procedures?

**1400**

**Meeting Adjourns**