IOOS RA DMAC Workshop Briefing Guidance Document

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IOOS RA Data Management Activities

NANOOS activities worth sharing

- NVS modularization and customization (NVS 3)
- "CMOP-NVS" Data Explorer,
 http://www.stccmop.org/datamart/observation_network/dataexplorer_nanoos
- Extensive support for open-ended time series, via NSF-funded project that will enhance NVS, apply it to national network of intensive watershed research sites
- Data Partnership Agreements, first steps
- Python data service goodness (related NSF-funded collaboration, etc)

Cross-regional and national activities

- Strong collaboration with IOOS Program Office in helping guide data service and metadata thrusts (SOS templates, MMI vocabularies, etc)
- Acoustic Animal Telemetry data project
- West Coast RA's collaborations: WCGA Regional Data Framework (geospatial data catalog) guidance, closer coordination



IOOS RA Data Management Priorities

List priorities for next 12 months

NANOOS Visualization System (NVS)

- Continued enhancement of user functionality, asset maintenance, handling of new data types (GIS, open-ended time series, depth profiles)
- Improvement & deployment, asset inventory tools & status feeds
- Continued enhancement of asset monitoring tools
- Selected data harvesting overhauls: NOS/COOPS, CMOP, VENUS and NERRS (same as last year...)
- Situational awareness visualizations (eg, SST from in-situ platforms, previous 1 hour)

Other

- Data Catalogs under West Coast collaboration context (WCGA RDF/Ecotrust projects)
- Better handling of GIS data
- Ocean Acidification data issues & collaborations (regional-national, maybe international), including continued collaborations w/ shellfish growers



IOOS RA Data Management Challenges

What are the challenges to implementing IOOS DMAC data standards, services, and functions?

 Lack of usable client tools (programmatic & user software) to exploit investment implementing IOOS services

This often leads to the situation where the services we set up are not used in the region, not even by ourselves

- Lack of clearly identified, well described tools for validation of our services, and to identify and resolve problems
- Shifting targets for data standards and services
 But recent developments make me very hopeful
- Conveying the value of these efforts to RA's (leadership, stakeholders), and having clear, visible benefits to point to (vis a vis regional user products).



How can the IOOS Office Assist your RA?

List 3 ways that IOOS Office could help facilitate DMAC advances in your RA?

- Help us overcome the challenges listed above!
- Help develop and disseminate tools and code that facilitate use of data directly from these services

Client software and API's/libraries, etc

Let's leverage the recent investment in more consistent, capable and comprehensive data services, metadata

Deploy working, practical IOOS Registry/Catalog web services

So we can query data from it programmatically and therefore have an incentive for actively using it

