

IOOS RA DMAC Workshop Briefing

NERACOOS

IOOS RA Data Management Activities

- Amazon Cloud Web Services
 - Cost Savings, Scalability
 - Development Environment
 - Laptop \Leftarrow GIT \Rightarrow Cloud
- Drupal
 - CMS offload Web Content from DMAC
 - Product Challenges – reusable custom PHP modules – Maps, Plots, steep learning curve.

IOOS RA Data Management Activities

- Dedicated Products Team
 - inspired by NFRA workshop
 - Cross Regional input from PI's and data providers
 - User Surveys, Research
- *Wave Glider example*
 - CMS – news release, press, photos etc.
 - App backend. Telemetry ERDDAP => GeoJSON
=> OpenLayers display.

IOOS RA Data Management Priorities

- Regional Data Integration Framework
 - Leveraging Testbed and IOOS PO 2012 work.
 - Move DMAC to Data Providers, distributed Web Services architecture.
 - TDS/ NetCDF based vs. relational database based – start with observations and models.
- THREDDS plugins IOOS SOS Profile
 - ncML, ncISO, nc SOS, ncWMS
 - Specific Archival Plan w NODC

IOOS RA Data Management Priorities

- Products Team
 - Climatologies – FLOT
 - Regional Data Portal
 - Hoping the new DIF architecture will enable this
 - Access to historic QA/QC'd long time series (back to 2001)
 - Perhaps via ERDDAP
 - Utilize DIF architecture to develop other innovative products.

IOOS RA Data Management Challenges

- Resources
 - Buoy array, models include DMAC but not specifically IOOS DMAC. Need to bring in line. Same with Models: NECOFS, WW3
- Standards – Moving target
 - E.g SOS DIF/SWE/2.0
 - TDS ongoing development
 - CF Standards
- New Standards / Certification
 - ERDDAP ?

How can the IOOS Office Assist your RA?

- Continue DMAC push to Regions, such as the DMAC White Papers.
- Tools e.g.ncSOS, 52North, ISO, Archiving
- Code sharing, Tech wikis, Cookbook/Guides.