IOOS RA DMAC Workshop Workspace Demo

AOOS – Rob Bochenek

IOOS®

Summary

- Background
- Motivations for this (users)
- Progress to date
- Demonstrate workspace
- Who's using this thing? And how?
- Let's collaborate!
- Where are we going with

IOOS®

Background

- Research project data is by far the most difficult to manage

- Data sets are spread across formats, disciplines, data structures and standard operating procedures

- Things are further complicated because data is produced from humans and not machines

- Approaches involve
  - Attempt to dictate rigid structure, CDMs….
  - Embrace the chaos and let these things self organize

Motivations (User Needs)

- Investigators
  - We need ways to securely share data (email, FTP, drop box ineffective)
  - Metadata requirements are confusing and difficult to meet (tools are inadequate)
- Data Managers
  - I hate my job..getting data from my PIs is like pulling teeth
- Project/Program Managers
  - I have no idea where the data management component of my program is….
  - I want more transparency

IOOS®

Progress to date

- This is a prototype, but it is in production now

- Architecture is solid, scalable and modern

- Tool components (Interface) are proof of concept
  - functional but not complete…

Let's go to the demo

Where are we going

- React and adapt to users
- Soon to be released
  - Provide richer ISO metadata support (project, collection, file and dataset level)
  - Become more "user centric" with the interface
  - Comments, chat, issue resolution
  - More granular security and roles for projects
  - Search (index everything)
- Future looking
  - Publishing to public interfaces and national archives (NODC)
  - Data introspection, visualization and metadata extraction for various data types
  - Workflows (Phase I – document, Phase II – run)

IOOS®