Update on NERRS Science Collaborative Data Management Activities

NERRS Science Collaborative Advisory Board Meeting

Ann Arbor, MI

7-8 September 2016

National Estuarine
Research Reserve System
Science Collaborative

Review and Updates

- Role of the NERRS Centralized Data Management Office in the NERRS Science Collaborative

- Current Activities
  - Nuts and Bolts of Data Management
  - Promoting Coastal Intelligence

Role of the CDMO in the NSC

The CDMO focuses on CSP:

Goal 4. Transfers key knowledge and lessons learned to other potentially benefiting NERRS as well as local, state and federal coastal management decision makers and educators; and

Goal 5. Delivers highly credible, valid and relevant scientific results and data that are both timely and universally accessible.

Role of the CDMO in the NSC

Connecting the NSC to the NERRS and beyond:

- Support project specific protocols for data collection, QA/QC, documentation and access.

- Establish a node client at an identified existing data portal and assisting with testing node client to host node connections.

- Participate in the identification of options for data transfer.

- Support project data access and long-term archival via the use of NOAA-approved data access protocols and archival services.

- Provide data management training.

Current Activities –
Nuts and Bolts of Data Management

Via the Data Sharing Plan (DSP), each project addressed the five (5) components of a data management program:

- User-needs assessment
- Data collection protocol
- QA/QC procedures
- Documentation and metadata
- Data access and archival

Current Activities –
Nuts and Bolts of Data Management

Each project has completed a DSP update to include:

NERRS Science Collaborative Data Sharing Plan

Annual Review Template

(Revised 06/25/16)

Project title:

Project lead:

1. **General Description of Data to be Managed**

2. **Data QA/QC Procedures**

3. **Data Documentation / Metadata**

4. **Data Access and Sharing**

5. **Data Archival**

Current Activities –
Nuts and Bolts of Data Management

A few observations from the DSP reviews:

- "Why do we have to do this? It was not a requirement before?"

- Shoebox dataset mentality still exists

- Multiple / changing metadata standards is confusing

- Proprietary data access is a concern

- Most projects want to provide their own method for data access during the life of the project, but expect someone else to be responsible for long-term archival

Current Activities – Promoting Coastal Intelligence

- **Coastal Intelligence (CI)** refers to information that is used by governments, businesses, and citizens to make decisions that support healthy ecosystems, strong economies, and resilient communities along our coasts.

- NOS and partners support this decision-making process by translating science - coastal and ocean observations, data, and research - into information that people can use.

Current Activities – Promoting Coastal Intelligence

Emerging opportunities from currently funded projects to support NOS CI efforts include:

- NASA-USGS Blue Carbon Monitoring Program

- Green Genes: 16s rRNA Gene Database and Tools

- SWMP needs assessment (TBD tomorrow)

Comments and Questions?

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