

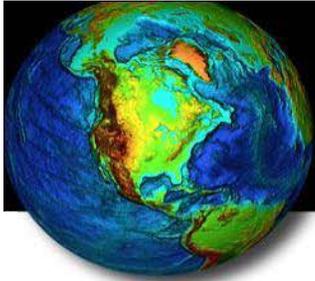
NOAA Environmental Data Management Workshop

Helen Wood

Chair, Environmental Data Management Committee

May 25, 2010



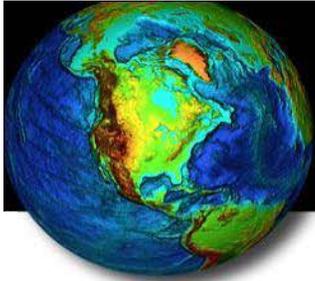


Workshop Goals

- Identify and inform the development of Procedural Directives for specific life-cycle components per NAO 212-15

- Promote cross-NOAA collaboration in specific areas
- Provide an opportunity for broader community interactions
- Identify and document best practices in specific areas
- Identify current capabilities that can be leveraged across NOAA



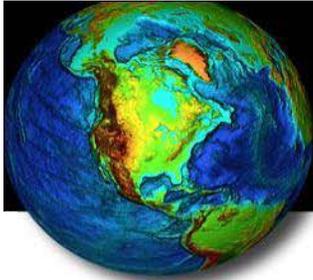


NOAA Environmental Data Management Policy

NOAA Administrative Order (NAO) 212-15: Management of Environmental Data and Information

- NAO states that:
 - “Environmental data will be visible, accessible and independently understandable to users, except where limited by law, regulation, policy or by security requirements.”
- NAO presents an end-to-end lifecycle framework for the management of environmental data
- Detailed implementation guidance will be provided by Procedural Directives to be developed by the EDMC





Environmental Data Management Lifecycle

Overarching all Aspects of the Data Management Life Cycle

Governance, Requirements Management, Architecture Management

Developing and maintaining rich metadata to accompany the data

Establishing mechanisms that allow for user requirements and feedback

Planning of New Observing or Data Management Systems

- Requirements Definition
- Analysis of Alternatives
- System Design
- Integration with observing systems (NOAA, Interagency/ State, International)
- Determining what to archive and associated funding
- Buy/build

Stewardship Overarches Observing Operations, Archive, Access, Use

-All ongoing, iterative processes that improve:

- a) data & metadata content (includes reprocessing data)
- b) access & user understanding

Observing Operations

- Actual Observation
- Transmission / Processing / QA
- Integration with other data to create products (e.g., models)
- Dissemination to real-time Subscribers
- Delivery to Archive

Archive

- Ingest (Receipt)
- Archival Storage
- Data management (populating catalogs, registries, metadata)
- Preservation Planning (migration to new technologies)

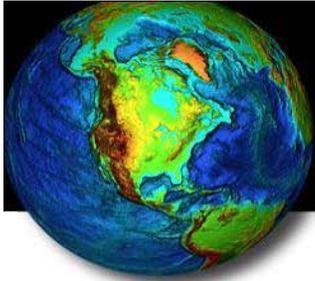
Access

- Discovery (catalogs, registries, metadata)
- Dissemination to Users (web services, legacy systems, standard formats)

Use

- Integration w/other information (NOAA, others)
- Assimilation into models
- Product creation
- Make decisions (Policy, emergency, others)
- Scientific discovery
- Feedback to NOAA





May 25 Agenda

Session	Location	Time
Introductory session / plenary speakers	NOAA Auditorium	8:30-10:00
<i>Break</i>		10:00 – 10:30
Challenges and Opportunities for NOAA – Panel	NOAA Auditorium	10:30 – 12:00
<i>Lunch</i>		12:00 – 1:30
Overview of NOAA projects – Panel	NOAA Auditorium	1:30 – 2:30
Exhibit and Demonstration Session	NOAA Science Center	2:30-5:30

