

Florida Water Resources Monitoring Council

Integrated Data Management

Steve Wolfe – Florida DEP
11/7/07

Oceans Council decisions, 10/07

Integrated Data Management

Increased funding: \$600K → \$750K

Oceans Council decisions

- **Data Focus Area 1 – establish metadata standards.**
 - Increased funding from ~\$200K to \$250K
 - To provide contract support for ‘discipline’ workshops and to allow standards to still be completed in shortened timeframe.

Oceans Council decisions

- **Data Focus Area 2 – Phase 1, high-level design of data storage/sharing system.**
 - Increased funding from \$400K to \$500K
 - To cover increased cost from shortened timeframe.

Actions launched

- **Data Focus Area 1 – establish metadata standards.**
 - Set up overall timeline
 - Held ‘pilot’ Science Discipline metadata workshop, 11/6-7
 - To optimize methods for determining metadata needs during ‘real’ discipline workshops to follow.
 - Began finalizing Science Discipline workshop Leads
 - Began scheduling and arrangements for Science Discipline workshops
 - Ran general strategy by Metadata Expert Council (11/2)

Actions launched

- Data Focus Area 2 – Phase 1, high-level design of data storage/sharing system.

Note need for design team to closely follow metadata efforts as resulting standards will affect their design

- Set up overall timeline
- Hired IT system design team (will also support metadata workshops as part of necessary linkage)
- Ran general strategy by Metadata Expert Council (11/2)
 - Will establish liaison between MEP and IT Team
 - MEP will provide comments on design steps to IT Team

Terminology

- Mandatory to create glossary of terminology.
- Differences in terminology among the scientific disciplines, and between science and information technology arenas is HUGE.
- Terminology will be a continuing problem even with glossary...must expect misunderstanding.
- Unless you KNOW the person you are talking to uses your exact lingo, beware of 'short, simple, and concise'.

Draft Glossary 1

- **Data:** values or results
- **Metadata:** data descriptors
- **Metadata element:** a single piece of metadata
- **Metadata standard:** a standardized collection of metadata elements
- **Metadata framework:** a standardized approach to handle metadata standards

Draft Glossary 2

- **First-Tier Metadata** – Metadata that is the same for all data: basically Who, What, When, Where, Why
- **Second-Tier Metadata** – Metadata necessary for suitability assessment that is specific to a subset of data
- **Discipline** – in this context, a scientific arena that is expected to produce/use data that is assessed differently from ‘other’ data. That doesn’t mean that all data in the discipline is assessed differently from that of other disciplines.
- **Sub-Discipline** – Information may lead to creation of sub-disciplines or just splitting of disciplines.

Draft Glossary 3

- **Question** – That asked about data as part of determining its suitability for a potential user's purposes.
- **Search** – Collecting data that meets the requirements (for data quality, sampling location, etc.) of the user
- **Search Result** – a set of data meeting the requirements, may or may not include associated metadata
- **Result Value** –this term may not be sufficiently broad to encompass all data types. However, in effect, the result of a measurement of some type.