

**Interagency Working Group on
Ocean and Coastal Mapping
Technical Workshop**

NOAA

**National Geophysical Data Center
Boulder, CO**

August 14-15, 2012

Workshop Objective:

To evaluate our progress on building the OCM Inventory and plan future work.

Outline of the Workshop

- I. Getting on the Same Page
- II. Evaluation of Metadata Guidance
- III. Portals and Viewers for the Inventory
- IV. Strategy and Implementation

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Agenda: Tuesday Morning

Getting on the Same Page

8:30	Welcome, orientation to the facility (Dan Price)
8:40	Greetings from IWG-OCM Co-chairs and introductions (Chappell, Brock)
8:55	Workshop objectives (Lightsom)
9:00	Project goals (Vandegraft)
9:30	Summary of 2012 accomplishments (Lightsom)
10:00	Break
10:15	A related project, the US Interagency Elevation Inventory (Betzhold)
10:45	A related project, Ocean.Data.Gov (Bode)
11:15	Work on ontology and ontology services (Fox)
Noon	Lunch at local restaurants

Agenda: Tuesday Afternoon

Evaluation of Metadata Guidance

1:30	Purpose of Metadata Guidance (Taylor)
1:45	Discussion of guidance, basic principles and introductory sections: <ul style="list-style-type: none">• Would metadata meeting these standards create an effective inventory?• Are these recommendations realistic for data providers?
3:00	Break
3:15	Discussion of guidance, detailed recommendations for information to be included in metadata fields: <ul style="list-style-type: none">• Would metadata meeting these standards create an effective inventory?• Are these recommendations realistic for data providers?
4:00	Decision about next steps to finalize Guidance Version 1.
5:00	Adjourn
6:30	Group dinner in Boulder

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Agenda: Wednesday Morning

Portals and Viewers for the Inventory

9 AM	Summary of yesterday's agreements and remaining questions (Chappell)
9:15	Demo: the OCM Inventory prototype Geoportal developed in 2012 (Varner)
9:45	Demo: Mercury consortium projects (Devarakonda)
10:15	Break
10:30	Demo: other portals and viewers
11:15	Discussion: Does the OCM Inventory need a portal or viewer of its own? <ul style="list-style-type: none">• Which of our requirements can be met by websites that are being developed and maintained by others?• Which of our requirements can only be met by technology that is dedicated to the OCM Inventory?• What are the pros and cons of Geoportal, Mercury, Ocean.Data.Gov, and other websites?

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Agenda: Wednesday Afternoon

Strategy and Implementation

1:30	Summary of agreements and remaining questions (Vandegraft)
1:45	Discussion: How can ontologies be incorporated to improve the Inventory?
2:30	Discussion: How can we work with agencies and other data providers to encourage contribution of good metadata and services?
3:00	Break
3:15	Discussion: What are our operational and resource constraints?
3:45	Planning future work: <ul style="list-style-type: none">• What actions will be taken?• What resources will be required?• Who will be responsible?• How will we coordinate our efforts with other projects?
5:00	Adjourn

2012 Accomplishments

1. Implementation of prototype Geoportal at NGDC
2. Development of draft metadata guidance for elevation/bathymetry and images
3. Initiation of work on ontology, ontology services

Prototype Geoportals

- Created on schedule at NGDC using Esri Geoportals technology.
- Tested by June 2011 workshop participants, needed improvements were identified.
- NGDC resources were exhausted: improvements not made, no further testing.
- Opportunity to evaluate resource requirements for the OCM Inventory portal.

Does the OCM Inventory need a portal or viewer of its own?

- Which of our requirements can be met by websites that are being developed or maintained by others?
- Which of our requirements can only be met by technology that is dedicated to the OCM Inventory?
- What are the pros and cons of Geoportal, Mercury, Ocean.Data.Gov, and other websites?

Metadata Guidance

- Based on requirements document from Jan. 2011.
- Essential metadata fields for data/interpretations, services and plans.
- Best practices and standards for both ISO and FGDC.
- Shared vocabularies for elevation/bathymetry and imagery: science keywords, instrument types, delivery formats, platform types.
- Shared vocabularies for all data types: place names, data resolution, organization names.

Metadata Guidance

- Would metadata meeting these standards create an effective inventory?
- Are these recommendations realistic for data providers?

Ontology & Ontology Services

- Contract with Rensselaer Polytechnic Institute for knowledge engineering.
- Funding from CMSP; foundations are OCM metadata work and 2010 USGS/NOAA workshop at WHOI.
- Start with OCM vocabularies and use cases from both projects.
- Initial goal: ontology services for OCM (elevation/bathymetry).
- Ultimate goal: inclusive ontology services for both OCM and CMSP.
- Requirements gathering meeting at RPI, June 4&5.

Ontology & Ontology Services

- How can we make use of ontology services to create an effective inventory?