



A Review of Ontologies for Earth Science

Earth Science Ontology Dialog Mini-Series Session 4

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Semantics and Ontologies for Earth Science - Objectives

- Explore the current status and application of multi-level ontologies
- Envision a semantically enabled cyberinfrastructure
- Engage in a dialogue of ontology and semantics

Panelists / Briefings on Today's Agenda

Dr. Luis Bermudez (OGC)

- "Use of Ontologies within the Open Geospatial Consortium (OGC)"

Dr. Boyan Brodaric (Geological Survey of Canada)

- "Toward an integrated surface and subsurface water ontology"

Dr. Norman Morrison (U of Manchester, UK)

- "The Environment Ontology: What sort of a place was it?"

Dr. Thomas Huang (JPL/NASA)

- "From Modeling the Earth to Terrain Simulation"

Dr. Mark Schildhauer (UC Santa Barbara)

- "Where do we go from here with Earth and Environmental Science Ontologies?" (a joint work by Mark Schildhauer & Ben Adams)

... followed by an open Q&A and discussion among the panelists and all participants

Review – A Complex Topic

- **Thematic content and representational structure**
 - Environment
 - Terrain
 - Water
- **Processes**
 - Population and maintenance
 - Interoperability
 - Governance
- **Practices**