

MAGIC Meeting Minutes
February 8, 2006

I Participants

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Mary Anne Scott	DOE	scott@er.doe.gov
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Kevin Thompson	NSF	kthompso@nsf.gov

I. Action Items

II. Proceedings

Mary Anne Scott of DOE and Kevin Thompson of the NSF chaired this meeting of MAGIC.

Briefing on the U.S. Integrated Ocean Observing System (IOOS)

Kurt Schnebele of the IOOS Office gave a briefing on the Integrated Ocean Observation System (IOOS). IOSS is one component of the U.S. Integrated Earth Observation System, which contributes to the international Global Earth observation System of Systems (GEOSS). Eight Federal agencies participate in IOSS with additional state, local, academic, and industry partners. IOSS goals include improving predictions of climate change, sustaining marine resources and improving the safety and efficiency of marine operations. The IOSS architecture integrates three scales of observations: global ocean climate components, coastal ocean components, and regional observing systems. It provides end-to-end integration of analysis and modeling, data communications and management, and monitoring. An international collaboration integrates remote and in situ sensing.

The coastal component includes a national backbone of Federal agencies, and a network of sentinel and reference stations using standards and protocols. Regional coastal ocean observing systems include inputs from regional associations, private and public sector entities which inform the Federal agencies of user needs. Data management challenges include metadata, discovery, on-line browse, transport, access, archive, and IT security.

Contact for information on IOOs is Kurt Schnebele at: k.schenebele@ocean.us, Roz Cohen at: Rosalind.e.cohen@noaa.gov, and Andrew Clark at: a.clark@ocean.us.

Discussion among the MAGIC members identified that:

- IOSS should engage with the NSF focus group of program officers of environmental/observational projects
- JET members should be informed. Grant Miller is the coordinator for the JET
- Several NSF programs are relevant including:
 - o IRIS: Incorporated Research Institutions for Seismology Data Center in Seattle: See www.iris.edu

- Henry Gold: National center for Ecological Analysis and Synthesis, UC Santa Barbara. They are making environmental and ecological data available, supporting middleware tools, and supporting ecoscientists.
- Mary Anne Scott of DOE supports the Earth Systems Grid at NCAR, LLNL, and Argonne. They establish portals allowing climate scientists to find data sets and download the parts that are needed.
- Geosciences Observatory Network, based at UC San Diego and Virginia Tech are study geology and put a large effort into metadata using graduate students.
- NSF Marine Metadata Initiative: NSF has supported the development of up to 40 controlled vocabularies in extensive use. They are trying to establish a crosswalk to allow translation from one vocabulary to another.

Other News

The OECD workshop resulted in a report that will be submitted to the Global Science Forum for approval for issuing. They have eight findings and a recommendation to develop consultative mechanisms to coordinate international capabilities.

The Global Grid Forum (GGF) and the Enterprise Grid Architecture (EGA) have agreed to merge.

The NSF made an award to Ian Foster and Karl Kesselman for Community Driven Improvement of Software. They will be invited to a future MAGIC meeting to discuss their project plans.

NSF Cyber Infrastructure has announced their new director, Dr. Dan Atkins (Author of the Atkins Report) who will assume his new duties June 5.

Cyber Infrastructure had a budget request in FY 2006 of \$127 M. The request for FY 2007 is \$ 182 M. The increase is due to:

- + \$30 M for high performance computing acquisition
- Collaborative software

The DOE budget contains a plus up for high performance computing acquisitions. Funding for laboratories will continue.

Next MAGIC Meetings

March 1, 2206: 2:00-4:00, NSF, Room 1150

April5, 2006: 2:00-4:00, NSF, Room 1150