Arctic Project Support and Data Management Activities at NCAR’s Earth Observing Laboratory (EOL)

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The EOL provides multi-disciplinary international field project support to the scientific community. This support includes all aspects of Data Management activities including the development of a project strategy, web services including customized data visualization and the collection, processing, quality control, integration, and archival of project datasets (both research and operational), as well as the long-term data access and stewardship.

EOL Supported NSF Arctic Projects:
- Surface Heat Budget of the Arctic Ocean (SHEBA)
- Western Arctic Shelf-Basin Interactions (SBI)
- The Bering Sea Ecosystem Study (BEST)
- Arctic System Science (ARCSS)
- Arctic Transitions in the Land-Atmosphere System (ATLAS)
- International Tundra Experiment (ITEX)
- Cooperative Arctic Data Information System (CADIS)

Key Data Management Considerations:
- Data Policy, Protocol, andPlan
- Standardized Metadata and Interoperability
- Common Formats and Units (e.g. time)
- Data Processing and Quality Control
- Data Integration and Synthesis
- Data Compression, Subsetting, and Transfer
- Long-term data access and Stewardship

Example of ARCSS Data Archive
http://www.eol.ucar.edu/projects/arcss

Example of EOL Field Catalog with GIS Mapserver Display (BEST Project)
http://www.eol.ucar.edu/projects/best

Example of prototype interactive on-line Metadata Form used for CADIS

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