Network Information System

Mark Servilla
&
Duane Costa
NIS Development Team

• Mark Servilla, Lead Scientist
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• Duane Costa, Programmer Analyst
  – October 2003
Network Information System

Data and synthesis products resulting from research activities across the Network of LTER sites
NIS Advisory Committee

• Created in 2003; first meeting Spring 2004
• Members
  – 5 Scientists
  – 4 Information Managers
  – 5 LNO
• Mission – “...provide the Information Management and Information Technology to facilitate and promote advances in collaborative and synthetic ecological science at multiple temporal and spatial scales.”
• NIS Strategic Plan – adopted Sept 2005 by LTER CC
• Guidance to the NIS Development Team
  – Vetting process to review new tasks
  – Sets priorities for new tasks
  – Sets target dates for new tasks
Scope of Work and Strategic Plan Goals

• NIS Scope of Work per Cooperative Agreement
  – Distributed data network
    • Metadata catalog
    • Web-services model
  – Community collaboration and standardization
  – Promote and support synthetic research
  – Coordinating, supervision, and reporting
    • NISAC
    • IM Meeting

• NIS Strategic Plan Goals
  – Increase data quality through standard approaches
  – Increase data available for synthetic activities
  – Increase knowledge discovery through synthesis
Accomplishments to Date

- Metadata Catalog – 5,000 docs; 3,000 from LTER
  - LTER Metacat
  - Harvester
  - Advanced Query Interface
  - Site support tools for EML
  - Remote Sensing Archive
- LTER Grid Pilot Study
  - Collaboration with NCSA and SEEK
  - Efficacy of Grid middleware to IT and Science users
  - Requirements for a production LTER Grid
- LTER Custom Unit Registry
  - STMML cut and paste
  - LTER site collaboration
- NIS Modus-operandi
  - Feedback and prioritization process with NISAC
  - Reporting
  - Software and management process
  - Concurrent Versions System (CVS)
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<th>Community Collaboration and Standardization</th>
<th>Promoting and Supporting Synthetic Research</th>
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Future Goals

• Distributed Data Network
  – Fully flesh out LTER Web-services model; support sites in deployment of clients
  – Develop production version of LTER Grid
  – Continue integration and support of Metacat and associated tools
  – Investigate Life Science ID Authority for LTER

• Community Collaboration and Standardization
  – Continue site support tools for EML
  – Continue development of LTER Custom Unit Registry
  – Development of a Metadata Management Model for LTER sites
  – Contribute to the design and structure of EML as an eml-developer member
Future Goals

• Promoting and Supporting Synthetic Research (at the Network scale)
  – Metadata standards and tools
  – Interoperability standards (Grid middleware)

• Coordinating, Supervision, and Reporting
  – NIS Project web-site

• Reconcile Scope of Work with Strategic Plan