**CCE LTER: Information Management (2004-2006)**

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**Data Management Elements**

- Data Collection
- Quality Assurance
- Quality Control
- Metadata Work
- Repository Storage
- Data Sharing
- Local Sharing
- Web Delivery
- Processing
- Visualizing
- Data Exchange
- Archival Storage

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**Collaborative Environment: Partnerships**

**CCE Site Environment**

The California Current Ecosystem LTER is a coastal upwelling biome off the coast of California. An interdisciplinary group is working to understand and communicate the effects of long term climate variability on the California Current pelagic ecosystem. The CCE site became part of the LTER network in 2004 and is based at the Scripps Institution of Oceanography - University of California, San Diego.

**Event Logger**

An automated Event Logger System is set up to monitor the diversity of fish and zooplankton measurements through a common time and location stamps within a shared repository file created as data is collected. It is in development as a prototype to further investigate design realizations introduced after each deployment.

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**Information Infrastructure Strategies**

- **Elements**
  - Collaborative Data Handling: Facilitating capability and creating a cross-project information environment
- **Collaborative Strategies**
  - Enhanced project data handling capability
- **Sociotechnical Design Strategies**
  - Enhancing an interdisciplinary information infrastructure
- **Articulation Work**
  - Enhancing design and documentation of shared information processes
- **Data Sharing**
  - Enhancing shared data sharing practices
- **Shared Modules**
  - Enhancing shared modules

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**CCE LTER and Data Stewardship**

LTER represents a unique setting for data stewardship, characterized and challenged by a long-term science perspective coupled with an open data sharing policy for primary data and a highly distributed interdisciplinary collaborative environment. The understanding of the extent and scope of data stewardship is beginning to settle.

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**References**


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**Scientific Timeframes and their Features**

**Short-Term Perspective**

- Identify, design, develop, deploy, enact, and own
- Establish a cross-project data system
- Build and support of persistent infrastructure

**Long-Term Perspective**

- Devise a data management and information infrastructure strategy
- Identify and align technical, social, and organizational components
- Identify, design, develop, deploy, enact, and own

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**Design Environment**

An interdisciplinary group is working to maintainability, sustainability, accessibility, and quality control. The CCE LTER is building a contemporary information environment - Ocean Informatics - focusing on participant engagement, process-building, and local design. Ocean Informatics is a community of practice emerging to meet the challenges of articulating requirements and collaborative design in support of heterogeneous data collections and information management practices. Our focus is on developing processes that recognize intertwined technological, organizational, and social factors inherent to design work. Our goal is to create an adaptive information infrastructure that facilitates long-term science (Baker, Jackson, Wanetick, 2006).

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**Ocean Informatics Environment**

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**Data Sharing**

- Enhancing data sharing practices
- Establish a cross-project data system
- Build and support of persistent infrastructure

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**Data Management**

- Data Collection
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**Are there other key elements in your design environment?**