The CAP LTER information management system: data management for project investigators and the scientific community

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Overview

- The CAP LTER addresses the long-term curation and dissemination of research data with a robust Information Management System (IMS) that benefits CAP LTER investigators and the broader scientific community.
- The CAP LTER IMS facilitates the ingestion of research data and metadata that are then housed in the CAP LTER and LTER network data repositories, providing long-term storage and access to research data.
- Submitting data through the CAP LTER meets data publishing requirements set by funders and publishers, and each dataset is given a unique Digital Object Identifier (DOI) that a data provider may reference.
- The CAP LTER Information Manager and the GIOS Informatics team are available to assist with the data publishing process, developing data management plans, and to provide guidance regarding effective approaches to research data management.

Data Resources & Services

CAP LTER project data are publicly available. Resources include data from current and historic long-term monitoring programs, and investigator-provided data. Vignettes provide overviews of the long-term monitoring programs. All project data are searchable by author and keywords through the data catalog.

Data publishing services are available for all GIOS research initiatives.

A Data Management Plan (DMP) is now required for most proposals. The GIOS Informatics team can help with boiler-plate DMP materials, and advice regarding DMP development.

Data Life Cycle

GIOS infrastructure, and data resources and services help investigators to complete the data life cycle from data creation and acquisition through publication that supports data reuse.

Create

- GIOS can aid generating a data management plan, now required for most proposals

Reuse

- Digital Object Identifiers (DOIs) ensure accurate reference to acquired data

Discover

- Data are highly discoverable through the data repositories and DataONE

Publish

- GIOS publishes to a robust and secure data repository
- In addition, the CAP LTER maintains a local data catalog

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https://github.com/CAPLTER