Member Node Description: LTER Network Member Node

Version 2.0   6/24/2015   Mark Servilla

General

Name of resource:	Long Term Ecological Research (LTER) Network
URL(s):	www.lternet.edu
Institutional affiliation(s):	University of New Mexico
Primary geographic location:	Albuquerque, New Mexico, USA
Project Director & contact info:	Dr. Robert Waide (rwaide@lternet.edu; 505-277-2649)
Technical Contact & contact info:	Dr. Mark Servilla (servilla@lternet.edu; 505-750-3226)
Age of resource:	Since 1980
Funding support:	National Science Foundation
Proposed Unique Identifier:	urn:node:LTER

Content

Content description/collection policy (1 paragraph, domain and spatial/temporal coverage, uniqueness of content, exclusions, as applicable):
Included content represents the collections of Long Term Ecological Research Network from 27 sites over a period of time extending from over 100 years ago to the present from locations within the conterminous United States of America, Alaska, Antarctica, Puerto Rico, and French Polynesia. Content is primarily observed ecological data, but may include data collected by human and autonomous-based sensors.

Types of data (complex objects, text, image, video, audio, other):
Content is primarily tabular, but may include audio, video, still images (e.g., remotely sensed imagery), and raw binary.

Data and metadata availability (rights, licensing, restrictions):
Public unless declared otherwise in metadata.

Option for embargo (yes/no, duration):
Yes, 2-years to infinite due to sensitive content.

Size of holdings (number and size of datasets, mean and median granules (files) per dataset):
Approximately 41,200 packages consisting of a single metadata document and, generally, 1-many data objects of approximately 1-500Mb in volume; data volumes may vary from bytes to Gigabytes.

Please describe recent usage statistics, if known, including information on annual data product downloads, annual number of users, annual number of data products used in publications:
Annual data package views (resource map equivalent): ~350,000*
Annual science metadata downloads: ~1,356,679*
Annual data product downloads (individual objects): ~800,000*

* Downloads are not tracked on a per user basis unless the use is explicitly authenticated (i.e., "logged in"); it is estimated that most downloads are performed by automated robots (e.g., search engine "bots").

User interactions

How does a user contribute data? (what can be deposited, how are data prepared, are specific software required, documentation/support available)

Data packages are generally harvested on a timed-schedule from individual LTER research sites consisting of a single science metadata document and one or more science data objects. Data are prepared based on research site protocols.

How does a user acquire / access data?

Direct access through data repository REST Web-service API; browser accessible URI on Portal interface.

What user support services are available (both for depositing and accessing/using data)?

Both direct-access to technical support person and or email (tech-support@lternet.edu).

How does the resource curate data at the time of deposit?

A persistent archive is maintained through the Provenance Aware Synthesis Tracking Architecture (PASTA) data repository managed by the LTER Network Office, University of New Mexico.

Technical characteristics and policies

Software platform description, incl. data search and access API(s):

The Provence Aware Synthesis Tracking Architecture (PASTA) data repository provides the LTER Network a network-wide data management and persistence solution. PASTA is accessible through a REST-based Web-service API and a public accessible user interface the LTER Data Portal (https://portal.lternet.edu).

Service reliability (including recent uptime statistics, frequency of hardware refresh, if known):

24x7 since January 2013; maintenance and service from 7pm-9pm Mountain Time every Wednesday.

Preservation reliability (including replication/backup, integrity checks, format migration, disaster planning):

Preservation utilizes both local and off-site backup; no format migration supported.

User authentication technology (incl. level of create/modify/delete access by users):

LDAP-based authentication for LTER personnel only.

Data identifier system and data citation policy, if available:

DOI using prefix 10.6073 and persistent URI identifier.

Metadata standards (including provenance):

Ecological Metadata Language 2.1.0 and greater.

Capacity/services to DataONE

At what functional tier will you initially be operating? (see http://bit.ly/MNFactSheet for definitions)

☐ **Tier 1: Read only, public content**
☐ **Tier 2: Read only with access control**
☒ **Tier 3: Read/write using client tools**

☐ **Tier 4: Able to operate as a replication target**

If you can host data from other member nodes, what storage capacity is available?
N/A

Can you provide computing capacity to the broader network? If so, please describe.
No

Other Services

What other services or resources (such as expertise, software development capacity, educational/training resources, or software tools) can be provided of benefit to the broader network?
Informatics experience, software development, data documentation.