Member Node Description: Global Lake Ecological Observatory Network (GLEON)

Version 1.0 9/4/14 Corinna Gries

General

Name of resource:	Global Lake Ecological Observatory Network (GLEON)
URL(s):	http://gleon.org/ https://poseidon.limnology.wisc.edu/metacatui/
Institutional affiliation(s):	University of Wisconsin
Primary geographic location:	Madison, Wisconsin, USA
Project Director & contact info:	Paul Hanson, pchanson@wisc.edu, Kathleen Weathers, weathersk@caryinstitute.org
Technical Contact & contact info:	Corinna Gries, cgries@wisc.edu
Age of resource:	Since 2005
Funding support:	NSF; the Gordon and Betty Moore Foundation, and other international funding sources
Proposed Unique Identifier:	urn:node:GLEON

Content

Content description/collection policy (1 paragraph, domain and spatial/temporal coverage, uniqueness of content, exclusions, as applicable):

GLEON is

- A worldwide network of instrumented buoys on lakes, placing critical lake information at the fingertips of researchers, managers, and the general public
- A research environment that fosters collaboration across disciplines and political borders
- An international community of scientists, educators, policy makers, and citizens invested in the future of fresh waters
- GLEON conducts innovative science by sharing and interpreting high-resolution sensor data to understand, predict and communicate the role and response of lakes in a changing global environment.

Types of data (complex objects, text, image, video, audio, other):
High frequency sensor data and manual monitoring lake data, plus harmonized, multi-lake data products.

Data and metadata availability (rights, licensing, restrictions):
Please see GLEON data use policy:
http://gleon.org/sites/default/files/pdf/data/2009_October_15_GLEON_data_access_policy.pdf

Option for embargo (yes/no, duration):
Yes, determined by individual data owners.

Size of holdings (number and size of datasets, mean and median granules (files) per dataset):
In development at this time (9/2014)

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:
Not available

User interactions

How does a user contribute data? (what can be deposited, how are data prepared, are specific software required, documentation/support available)
Data may be provided by GLEON members using the metadata editor Morpho.

How does a user acquire / access data?
Via searching the GLEON DataONE member node site, or DataONE.

What user support services are available (both for depositing and accessing/using data)?
Some user support is provided by the University of Wisconsin, Center for Limnology (see technical contact above)

How does the resource curate data at the time of deposit?
Data are documented in the Ecological Metadata Language and general best practices are published on the GLEON website http://gleon.org/data/best-practices

Technical characteristics and policies

Software platform description, incl. data search and access API(s):
DataONE member node software stack.

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

Preservation reliability (including replication/backup, integrity checks, format migration, disaster planning):
General best practices for on-site and off-site backup are followed for all data managed at the Center for Limnology, which includes the North Temperate Lakes LTER data.

User authentication technology (incl. level of create/modify/delete access by users):
Not yet fully determined. Probably an in-house LDAP.

Data identifier system and data citation policy, if available:
Identifiers and data citation are assigned according to LTER and KNB policies.

Metadata standards (including provenance):
Ecological Metadata Language

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.
N/A

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?
We have, and will continue to organize training workshops for data management. We have some software development capacity in R, php, XML, Drupal, etc.