Member Node Description: Gulf of Mexico Research Initiative (GRIIDC)

Version 1.0   8/25/2016   Lauren Showalter, Joe Holland

1.   General

Name of resource:	Gulf of Mexico Research Initiative Information and Data Cooperative (GRIIDC)
URL(s):	https://data.gulfresearchinitiative.org
Institutional affiliation(s):	Harte Research Institute at Texas A&M Corpus Christi
Primary geographic location:	Corpus Christi, Texas, USA
Project Director & contact info:	Dr. James Gibeaut, james.gibeaut@tamucc.edu / Lauren Showalter, lauren.showalter@tamucc.edu
Technical Contact & contact info:	Joe V. Holland, joe.holland@tamucc.edu
Age of resource:	Since June 2011
Funding support:	Gulf of Mexico Research Initiative
Proposed Unique Identifier:	urn:node:GRIIDC

2.   Content

Content description/collection policy (1 paragraph, domain and spatial/temporal coverage, uniqueness of content, exclusions, as applicable):
The Gulf of Mexico Research Initiative Information and Data Cooperative (GRIIDC) is the vehicle by which the Gulf of Mexico Research Initiative (GoMRI) makes all the data collected under its funding publicly available. GRIIDC houses data collected from a wide variety of science disciplines, all related to the impacts of oil, dispersed oil, and dispersants on the ecosystems of the Gulf of Mexico and affected coastal states in a broad context of improving fundamental understanding of the dynamics of such events and their environmental stresses and public health implications.

Types of data (complex objects, text, image, video, audio, other):
Text, image, video, tabular, model code, inputs and outputs, audio and acoustic data, XML, multidimensional(netCDF), geospatial vector and raster data, model code, genetics (fasta, nexus), various binary data formats, other

Data and metadata availability (rights, licensing, restrictions):
Data and metadata are publicly available following Gulf of Mexico Research Initiative (GOMRI) policy that requires all data be made publicly available within one year of of data collection/acquisition or prior to publication, whichever date comes first.

Option for embargo (yes/no, duration):
No - all data that is transferred to DataOne will be reviewed and unrestricted.

Size of holdings (number and size of datasets, mean and median granules (files) per dataset):
Greater than 625 data sets and associated metadata are available at this time. Total holdings in excess of 23 terabytes

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:
GRIIDC has 391 users as of 3/30/16. Do not have full use statistics at this time. This will be implemented and updated in the future

3.   User interactions

How does a user contribute data? (what can be deposited, how are data prepared, are specific software required, documentation/support available)
GRIIDC accepts data from all the research funded by GoMRI. The Master Research Agreement that established GoMRI states that all data collected under GoMRI funds must be made publicly available through the GRIIDC system. Data is submitted in its original format accompanied by ISO 19115-2 standard metadata in xml format. Datasets must have approved metadata before data is made publicly available. No specific software is required to deposit data to the GRIIDC system. Data are deposited through an online interface. Support to users of the GRIIDC system include training webinars, online video tutorials, user manuals, and one-on-one training.

How does a user acquire / access data?
Users can search data here: https://data.gulfresearchinitiative.org/data-discovery. Data can be directly downloaded from the site via the dataset landing page for each dataset.

What user support services are available (both for depositing and accessing/using data)?
GRIIDC offers a great deal of support to its users. Training materials and resources, including user manuals are located under help on our website https://data.gulfresearchinitiative.org/training-user-guides. GRIIDC has a number of training videos and hosts monthly webinars on a variety of data management subjects. The Frequently Asked Questions (FAQ) section of the website provides additional support to answer common user questions (https://data.gulfresearchinitiative.org/frequently-asked-questions). Users also have access to GRIIDC team members by phone or email during regular business hours.

How does the resource curate data at the time of deposit?
All data and metadata are reviewed by the GRIIDC team. When applicable, data packages (data and metadata) are passed along to a 3rd party subject matter reviewer to ensure data package completeness.

4.   Technical characteristics and policies

Software platform description, incl. data search and access API(s):
The GRIIDC user interface is a web browser interface. It supports text searching of the metadata and geospatial search.

Service reliability (including recent uptime statistics, frequency of hardware refresh, if known):
99% up since June 2012. Weekly maintenance Tuesday 3:00 pm to 5:00 pm.

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

GRIIDC primarily hosted at Texas A&M - Corpus Christi, with replication and fail-over to a mirror site at Texas A&M - College Station. Backups are performed and verified nightly.

User authentication technology (incl. level of create/modify/delete access by users):
GRIIDC data providers and users are authenticated by the GRIIDC system with create and modify access. Additional read only public users may authenticate via Google login. Delete access is restricted to GRIIDC Staff.

Data identifier system and data citation policy, if available:
DOI and GRIIDC UDI. When a user downloads data they are provided a suggested citation for use: example - Jeff Chanton, Trophic Structure, Feeding Ecology and Bioaccumulation of Hg in Gulf of Mexico Hagfishes, 2011-2014., 2016. Distributed by: Gulf of Mexico Research Initiative Information and Data Cooperative (GRIIDC), Harte Research Institute, Texas A&M University-Corpus Christi. It is also recommended that the user cite the data using the Digital Object Identifier (DOI) for the dataset.

Metadata standards (including provenance):
ISO 19115-2

5.   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?
none currently

Can you provide computing capacity to the broader network? If so, please describe.
not currently

6.   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?