GoMRI Data Management & GCOOS

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* GCOOS and GoMRI shares the same geographical area of interest, i.e. the Gulf of Mexico;

* GCOOS *Data Portal Manager* is also the *Systems Architect* of the Gulf of Mexico Research Initiative Information and Data Cooperative (GRIIDC);

* GCOOS DMAC Coordinator is a Subject Matter Expert of GRIIDC; and

* GCOOS RA has a number of activities with Harte Research Institute (HRI), GOMA and investigators that have projects with GoMRI.
Gulf of Mexico Research Initiative Information and Data Cooperative (GRIIDC) is the vehicle by which GoMRI is implementing the Research Database.

The mission of the GRIIDC is to ensure a data and information legacy that promotes continual scientific discovery and public awareness of the Gulf of Mexico ecosystem.

**Essentials:**
- Various disciplines, data types and heterogeneous platforms;
- Metadata requirements;
- Data submission to national repositories when applicable or to GRIIDC; and
- Promotion of open data access and data sharing policies.

*GRIIDC Overview*
GRIIDC will maintain a registry of data sources and documented via metadata files submitted (ISO 19115/19115-2). The Registry will include referencing to external data sources, like the GCOOS Data Portal.
GCOOS Provides modules to facilitate data extraction.

- Sensor Observation Service (SOS) using NOAA’s Data Interchange Framework (DIF), Java-based 52N SOS version;
- Direct data access using `getData` command (via http); and
- Interactive user interfaces.

{GRIIDC will use SOS to extract data as needed using the `sos:GetCapabilities`, `sos:DescribeSensor` and `sos:GetObservation` modules.}
GRIIDC will provide different options for smart data search and download facilities.

- **For small datasets**: SCP and SFTP; and

- **For large datasets**: GridFTP, BBCP (UDT application is under review).

{Unlike the GCOOS services, the data on GRIIDC repository will not be transformed. Datasets will be served as they were submitted.}
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Thank you.

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