Abstract

- A major need stated by the NASA Earth science research strategy is to "develop long-term, consistent, and calibrated data products that are valid across multiple missions and satellite sensors." (NASA Solicitation for Making Earth System data records for Use in Research Environments (MEaSUREs) 2006-2010)
- Selected projects create long-term records of a given parameter, called Earth Science Data Records (ESDRs), based on natural processes that bring together continuous multisensor data.
- ESDRs, associated algorithms, verified by the appropriate community, are archived at a NASA affiliated data center for archive, stewardship, and distribution. See http://measures-projects.gsfc.nasa.gov/ for more details.

This presentation describes the NASA GSFC Earth Science Data and Information Services Center (GES DISC) approach to managing the MEaSUREs ESDR datasets assigned to GES DISC. (Energy/water cycle Information Services Center (GES DISC) approach to managing the MEaSUREs datasets, as it does for all resident data holdings, in collaboration with MEaSUREs PI,

- Maintain continuous communication to collect information on each data set, in order to maximize familiarity with data and system capabilities.
- Data volume, parameters, services, user community.
- Identify requisite data system capabilities.
- Establish implementation schedule.
- Ingest data and information into the data system.
- Advertise data availability, support user community.

GEOS-5: Will Be Responsible for Archiving Approved Datasets Generated by 7 MEaSUREs PIs

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Checklist for Supporting MEaSUREs Datasets and Services

1. Preparations for ingesting, archiving and supporting MEaSUREs generated datasets (Highlights)
   - Identify points of contact from data center and MEaSUREs Project data provider (e.g., Principal Investigator or designee to handle data). First, list those points of contact.
   - Establish meeting(s) of mutually agreed upon frequency.
   - Develop a mutually agreeable data release schedule.
   - Gather information on the data to be archived.
   - Develop and put on-line documentation.
   - Develop a working agreement and possibly an Interface Control Document.
   - Define data transfer protocol.
   - Is this a static or dynamic dataset?
   - Identify appropriate metrics that will be collected and reported (e.g., ingest, archive, user access).
   - Transfer data and associated services (if any) to data center.
   - Integrate services at data center as necessary.

2. Preparations for making data/services known and accessible (Highlights)
   - Ensure data and documentation are in place.
   - Test data and data services for public access.
   - Setup and populate web pages.
   - Establish 'help desk' points of contact.
   - Publish metadata to appropriate catalogs (Local portal(s), ECHO, GCMD, etc.).
   - Prepare (Candidate) for public announcement with data provider.
   - Identify appropriate user outreach and related conference attendance (paper/poster submission).

Special Situations

- Preliminary discussions with NSIDC on how to make Eric Wood's Hydrologic cycle data, slated for 2 DAACs, seemlessly accessible by hydrologists.
- How do we handle early data deliveries?
- Is dataset closed (dataset delivered; no longer being produced) or open (Continuous uingest of data as long as it is being produced)?
- What other special situations lurk?