Improving Global Precipitation Product Access at the GES DISC

The NASA Goddard Earth Sciences Data and Information Services Center (GES DISC) has been actively and continually engaged in improving the access to and use of Global Precipitation Measurement (GPM), Tropical Precipitation Measuring Mission (TRMM), and other precipitation data, including the following new services and ongoing development activities:

- Updates on GPM products and data services
- New features in Giovanni
- Ongoing development activities
- Precipitation product and service outreach activities

**Data Set and Service Updates:**
- New GES DISC Web portal (see below)
- Web content migration (making things searchable and easier to find)
- GrADS Data Server (GDS) available for both IMERG and TMPA products
- THREDDS Data Server (Access: OPeNDAP, WCS, WMS, NetcdSubset, NCML, UDCC, ISO; Viewers: Godiva2, NetCDF-Java ToolsUI, IDV)
- GPM V05 (available now); NOAA NCEP merged IR product (online now); GPCP-3 monthly product (coming soon); TRMM V8 (coming soon)
- Level-2 product subsetting (coming soon; OPeNDAP is available now)
- Datalist capability (released prototype – data for Hurricane study)
- TMPA and IMERG in YouTube (coming soon)

**Ongoing Development Activities**

- A variety of data access methods are available for users at different levels and needs
- The data set landing page provides a one-stop shop for data services and information. Data set-related services are accessible at the top right. The three tabs provide information on product summary, data citation, and documentation.

**New Features and Highlights**

- Above: The GES DISC Web portal has been completely redesigned to facilitate data and information discovery and access. Left: Project and mission information; featured gallery images; news; science focus areas; tools; and resources.
- Above: Sample of interannual time series of 3B43 for August with shapefile support in Giovanni, showing a record-breaking rainfall in the state of Louisiana in August 2016. Shapefiles currently available in Giovanni: countries, U.S. states, land/sea masks, and major watersheds around the world.

**GPM and TRMM Data Service Outreach Activities**

- GES DISC news, Twitter, user forum, GPM product and service training webinars, Giovanni workshops
- EOS article on Giovanni with IMERG and TMPA as examples. GPM products and services at the GES DISC in the BAMS (March 2017 issue)
- Posters and talks at AGU Fall Meetings, AMS Annual Meetings, and other conferences

**Precipitation products:** [https://disc.gsfc.nasa.gov/datasets?keywords=precipitation](https://disc.gsfc.nasa.gov/datasets?keywords=precipitation)

**Giovanni:** [https://giovanni.gsfc.nasa.gov/](https://giovanni.gsfc.nasa.gov/)

**GES DISC:** [https://disc.gsfc.nasa.gov](https://disc.gsfc.nasa.gov)

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