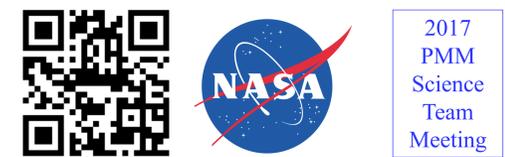


Improving GPM Data Access at the GES DISC



NASA/Goddard EARTH SCIENCES DATA and INFORMATION SERVICES CENTER (GES DISC)

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Abstract

This poster describes our latest activities to improve GPM, TRMM, and other precipitation data access at the NASA Goddard Earth Sciences (GES) Data and Information Services Center (DISC), including new services and ongoing development activities. The poster contains:

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

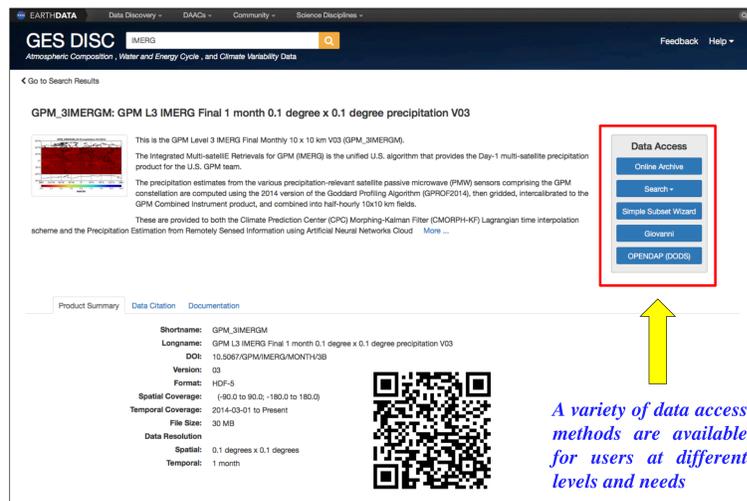
New Features and Highlights

Data Services:

- New GES DISC web portal (see below).
- Web content migration (making things searchable and easy to find)
- The GrADS Data Server (GDS) is available for both IMERG and TMPA products
- THREDDS Data Server (Access: OPeNDAP, WCS, WMS, NetcdfSubset, NCML, UDDC, ISO; Viewers: Godiva2, NetCDF-Java ToolsUI, IDV)
- The NOAA NCEP merged IR product status (back online soon)
- Level-2 product subsetting (coming soon; OPeNDAP is available now)
- Datalist capability (coming soon)
- TMPA and IMERG in YouTube (coming soon)

Giovanni:

- Seasonal (Interannual) Time Series with shapefile support. With this release, users can specify a shape as their selected region of interest. In addition, a combination of bounding box and shape is supported, provided that the intersection of the shape and bounding box is valid for the data type.
- Seasonal (Interannual) Time Series with Comma-Separated-Variable (CSV) download. This release supports CSV text download for the values shown in any interannual time-series plot.



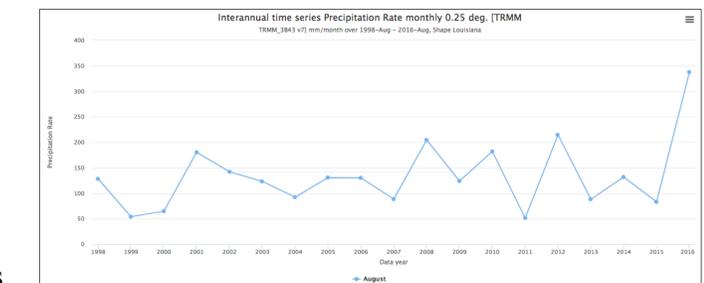
A variety of data access methods are available for users at different levels and needs



Above: A screenshot of Godiva2, showing a map of the IMERG monthly product. THREDDS Data Server supports interoperability through OPeNDAP, WCS, WMS, NetcdfSubset, NCML, UDDC, ISO as well as viewers (Godiva2, NetCDF-Java ToolsUI, and IDV)



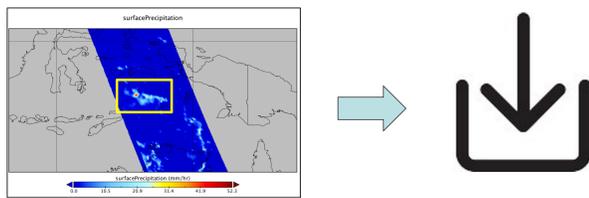
The GES DISC web portal has been completely redesigned to facilitate data and information discovery and access. Top right: The new web portal; Left: Project and mission information; featured gallery images; news; science focus areas; tools; and resources.



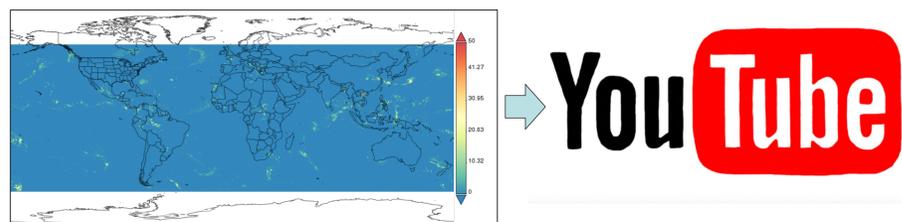
Above: Sample of interannual time series of 3B43 for August with shapefile support in Giovanni, showing a record-breaking rainfall in the state of Louisiana in August 2016. Shapefiles currently available in Giovanni: countries, US states, land/sea masks, and major watersheds around the world.

Above: The dataset landing page provides a one-stop shop for data services and information. A list of dataset-related data services is found on the top right. Three tabs contain product summary, data citation, and documentation, respectively.

Ongoing Development Activities



Level-2 GPM and TRMM product subsetting (supporting area and point). Subsetting through OPeNDAP is available now.



Making a whole data set collection (e.g., IMERG, TMPA 3B42) available in YouTube videos. Users can access animations of the product collection without downloading data and software. Links will be included for accessing original data.

GPM and TRMM Data Service Outreach Activities:

- GES DISC news, Twitter, user forum, GPM product and service training webinars, Giovanni Workshops, etc.
- 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 in AGU Fall Meetings, AMS Annual Meetings, and other conferences

