# DATA & APPLICATIONS ONLINE

Giovanni

Overview

NASA Giovanni (Geospatial Interactive Online Visualization ANd aNalysis Infrastructure) is a Web-based tool that allows users to access, visualize, and analyze vast amounts of Earth science remote sensing data without first having to download the data. The Web interfaces are designed to be clear and intuitive, facilitating data discovery, exploration and analysis of global and regional data sets covering atmospheric dynamics, atmospheric chemistry, hydrology, meteorology, precipitation, and oceanographic data. Giovanni portals provide an increasing amount of model output data in addition to the growing list of remote sensing data sets. Giovanni was developed by the Goddard Earth Sciences Data and Information Services Center (GES DISC).
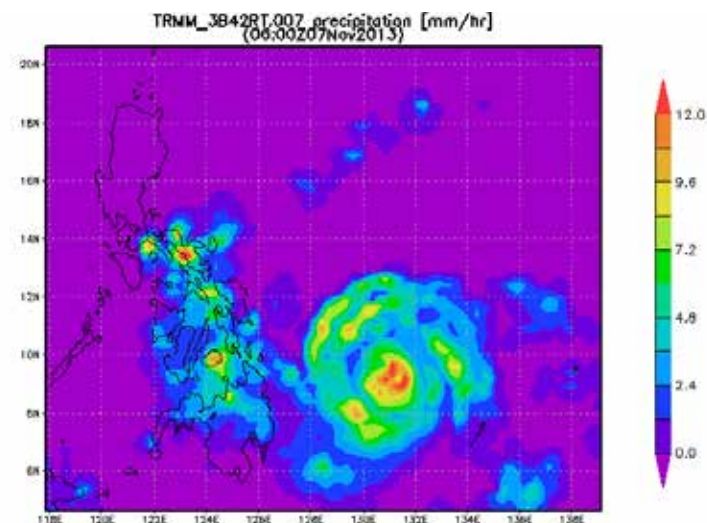
Key Features

- Customized data and analyses do not require familiarity with satellite or model data formats
- Saving of intermediate results for faster plot modifications; data lineages documenting all data transformations performed, so users know exactly how a plot was made.
- Single parameter plots include area plots of time-averaged parameters, time series of area-averaged parameters, latitude-longitude-time Hovmöller diagrams, longitude-latitude-pressure-time cross sections, vertical profiles, and zonal averages.
- Multi-parameter visualizations include overlaid time-averaged parameters, time series plots of area-averaged parameters, difference plots, scatter plots with regression, and temporal correlation maps.
- Animations of time-consecutive images
- Climatology and anomaly analyses
- ASCII output for maps and plots
- HDF and netCDF download options for data; KML option for imagery
- Web services for downloading subsetted data

Access

To access Giovanni, go to http://disc.sci.gsfc.nasa.gov/giovanni

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Goddard Earth Sciences Data and Information Services Center
NASA Goddard Space Flight Center
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EOSDIS DAACs
GES DISC is one of twelve NASA Earth Observing System Data and Information System (EOSDIS) Distributed Active Archive Centers (DAACs).

To learn more about data and tools available from EOSDIS, go to earthdata.nasa.gov.