

GHRC DAAC Offices are located in the National Space Science and Technology Center in Huntsville, Alabama

National Aeronautics and  
Space Administration



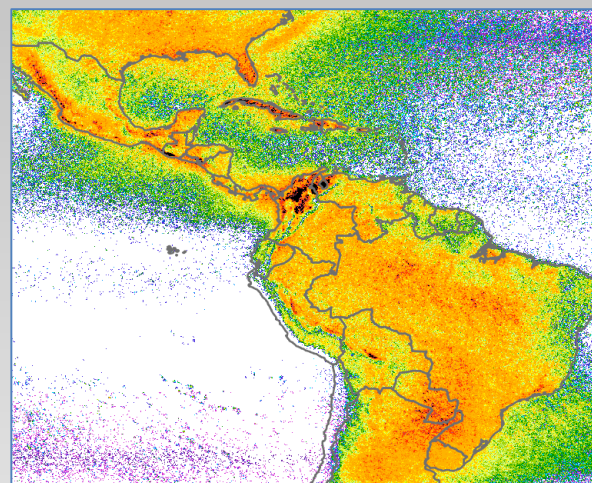
## NASA's Global Hydrology Resource Center (GHRC) DAAC

Hazardous Weather including Lightning, Tropical  
Cyclones and Storm-induced Hazards

GHRC DAAC was established in 1991 and is located at the National Space Science and Technology Center (NSSTC) at the University of Alabama in Huntsville (UAH). GHRC DAAC is a joint venture of NASA's Marshall Space Flight Center and the Information Technology and Systems Center (ITSC) at UAH. GHRC DAAC provides a comprehensive active archive of both data and knowledge augmentation services with a focus on *lightning, tropical cyclones and storm-induced hazards* through integrated collections of satellite, airborne, and in-situ data sets.

### **Manil Maskey, PhD, DAAC Manager**

- **Satellite Data:** Responsible for ingest, archive, product generation, reprocessing and distribution of data from the Lightning Imaging Sensors on TRMM and ISS, active and passive microwave data and ancillary lightning data sets, with some records dating back 35 years.
- **Field Campaign Data:** Data from successive hurricane science field campaigns since 1990 available across several missions including the Hurricane and Severe Storm Sentinel (HS3) Mission.
- **Ground Validation Data** for Precipitation Measurement Mission (GPM) Ground Validation (GV). Ground and airborne precipitation datasets supporting physical validation of satellite-based precipitation retrieval algorithms.



*The very high resolution 0.1° climatology collection of total lightning flash rates seen by the Lightning Imaging Sensor (LIS) allowed researchers to identify Lake Maracaibo in Venezuela as the spot with the highest lightning flash rate density on Earth.*

**Just over 27 terabytes of data were in the archive at the end of FY2018.  
7 million data files were distributed during FY2018.**



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