



International Precipitation Working Group (IPWG) and Global Precipitation Measurement (GPM) Applications Training

This three-part webinar series hosted by the International Precipitation Working Group (IPWG) and Global Precipitation Measurement (GPM) Applications Program will focus on the use of GPM data products for applications. Specifically, the participant will learn more about how to access GPM data and will be provided demonstrations on precipitation data access and analysis using NASA's Giovanni tool and Google Earth Engine.

*To receive a certificate of completion, the participant will need to attend all three sessions of this training program.

Topics Covered:

- Review the TRMM / GPM Missions
- Become familiar with GPM data access and products and GPM applications
- Understand IMERG and the strengths and caveats of the long-term IMERG data record for applications
- Find previous training webinars related to GPM precipitation
- Learn to access, analyze, and visualize IMERG precipitation data using NASA Giovanni tools and Google Earth Engine

Dates: 8, 15, 22 September 2021

Time: Each session will be presented twice to accommodate different time zones

- 10:00 to 11:30 AM Eastern US time (UTC-4 hours)
- 7:00 to 8:30 PM Eastern US time (UTC-4 hours)

Agenda:

Session-1, September 8, 2021: Overview of Precipitation Measurement Missions

- I. Introduction: About IPWG and past IPWG trainings, past GPM trainings, current training outline and goals
- II. Review of Tropical Rainfall Measurement Mission (TRMM) and GPM Mission
 - a. Overview of sensors and precipitation retrievals algorithms
- III. Introduction: Decadal Survey's Designated Observables Mission focusing on Aerosols, Clouds, Convection and Precipitation (ACCP)
- IV. Description of the Integrated Multi-satellite Retrievals for GPM (IMERG) Precipitation Data Products

Session-2, September 15, 2021: GPM Precipitation Data Applications

- I. Demonstration of GPM website
- II. Examples of precipitation data applications and usage

Session-3, September 22, 2021: IMERG Precipitation Data Access and Online Analysis



National Aeronautics and
Space Administration



- I. Demonstration of precipitation data access using Giovanni and examples of geospatial analysis
- II. Demonstration of precipitation data access and analysis using Google Earth Engine

**For Questions: Please contact Andrea Portier, GPM & ACCP Applications Coordinator,
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