

3rd NOAA User Workshop on the Global Precipitation Measurement (GPM) Mission: Proving Ground

April 2-4

**Earth Systems Science Interdisciplinary Center
College Park, MD**

[Remote participation will be available via WebEx]

Meeting Objectives: This three-day meeting, co-sponsored by NESDIS, NWS and OAR, will follow up on the highly successful previous two workshops (August, 2010 and November, 2011 – see http://www.star.nesdis.noaa.gov/star/meeting_GPM2011.php) **with a focus on the development, functionality, and priorities of a new NOAA GPM Proving Ground.**

The meeting objectives and anticipated outcomes for each topic are as follows:

Objective 1: Identify the purpose of the NOAA GPM Proving Ground and how it will improve NOAA precipitation products and services

Expected outcomes:

- A clear statement of the purpose and need for a NOAA GPM Proving Ground
- A plan describing how the Proving Ground will facilitate interaction among NESDIS, NWS, and OAR, as well as NASA, on GPM precipitation issues

Objective 2: Identify use of GPM data in research and operational algorithm development

Expected outcomes:

- Identify Proving Ground participants and timelines for the use of GPM-era precipitation products in NOAA
- Catalogue or list current operational products derived from the TRMM and passive microwave constellation
- Gather information on ongoing multi-sensor precipitation product development efforts for both continental and global scales
- Benchmark GPM-era algorithms at multiple space-time scales over the CONUS
- Establish a framework for multi-sensor fusion of precipitation products from satellites, radars, gauges and numerical weather prediction model outputs that can be used across NOAA line offices
- Identify paths of research to operations, e.g., establish and evaluate methods to assimilate GPM products in numerical weather prediction models, and assess the operational values of GPM-based, multi-sensor fused precipitation products for climate, flood and water resources predictions
- Novel strategies for calibration of space-based microwave measurements using Multi-Radar Multi-Sensor System

Objective 3: Identify training needs for use of GPM data in NOAA operations (WFOs, RFCs, NHC, NCEP)

Expected outcomes:

- Determine target audience – general users and operational entities
- Determine knowledge gaps relative to what most people know about current operational suite
- Evaluate available human resources for training – whom to approach and how

Intended Participants: Current and future users of satellite-based precipitation, water cycle products, and radiance data from government, private sector, and academia

For more information, contact the workshop organizers:

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OAR: JJ.Gourley@noaa.gov, Rob.Cifelli@noaa.gov

If you are interested in attending, please contact **Chandra Kondragunta** (Chandra.Kondragunta@noaa.gov) or Yu Zhang (yu.zhang@noaa.gov). A web site with detailed meeting information, including logistics and remote participation, will be available in early March.