



Advanced Webinar: Applications of GPM IMERG Reanalysis for Assessing Extreme Dry and Wet Periods

January 28 - February 4, 2020

10:00-12:00 & 16:00-18:00 EST (UTC-5)

This advanced webinar will focus on analysis and interpretation of the new long-term IMERG data, focused on extreme dry and wet period monitoring and management. The webinar will include lectures and hands-on exercises to derive regional precipitation statistics.

Part One: Calculation of Precipitation Statistics Using IMERG

This session will provide a brief overview of IMERG data including its strengths and caveats and how to access and download IMERG data. The lecture will then follow with a hands-on exercise on the calculation of regional statistics utilizing precipitation IMERG data.

Part Two: Calculate Standardized Precipitation Index (SPI) based on IMERG to Monitor Wet and Dry Conditions

This session will show attendees how to calculate SPI on defined time scales of 1 to 3 months as well as diagnosis of wet and dry conditions based on SPI. The session will then follow with an exercise calculating SPI on 1 to 3 month time scales.

Part Three: Flood and Drought Risk Assessment Based on SPI

This session will focus on the analysis of SPI for ~20-year period (2000 to present) to assess the frequency and spatial extent of extreme wet and dry conditions, together with socioeconomic data to understand flood and drought risk.



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