

Satellite Remote Sensing of Hydrology: Opportunities and Gaps

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ABSTRACT

Satellite remote sensing techniques have shown significant advances over the past few years. Recently launched satellites, such as Global Precipitation Measurement (GPM), Soil Moisture Active and Passive (SMAP), missions provide unprecedented opportunities for measurements of hydrological variables across the globe. However, the use of satellite remote sensing data for hydrology and water resource applications is not straightforward. There are a number of science and practical questions that need to be addressed to be able to use the data successfully. In this presentation, I will provide an overview of recent research results highlighting issues and opportunities for the use of satellite remote sensing data in hydrology and water resource applications.