Special Issue

Precipitation Observations

Message from the Guest Editor

Precipitation is a critical component of the water cycle and is fundamental for streamflow, air quality, climate, and weather forecasting. The aim of this Special Issue is to communicate, through a selection of papers, on the current state of science and engineering on precipitation observations. The observed precipitation elements in this context may include total precipitation, rainfall, snowfall, precipitation type and the elements of snow on the ground including depth and water equivalent. The examples of relevant current issues are:

- Emerging observation technologies including automated catchment and non-catchment instruments;
- Standardized vs climate dependent instrument installation, configuration and maintenance;
- Precipitation observation data flow;
- Instrument and post-measurement data processing and quality issues;
- Catch efficiency, precipitation data adjustments and the associated metadata needs;
- Future opportunities like crowdsourcing and remote sensing with weather radar or satellite.

Guest Editor

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Deadline for manuscript submissions

closed (31 March 2020)

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Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

Editor-in-Chief

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