

Advances in Meteorology

Special Issue on Precipitation Science: Observations, Retrievals and Modeling

Call for Papers

Advances to space-based observing systems, computing, and data processing techniques have yielded to unprecedented advances in precipitation science. The increasingly lengthy time span of precipitation data records has prompted new, more detailed climatic analyses, and enhanced numerical models with more complex precipitation microphysics have been proved instrumental for improving the forecast of liquid and solid precipitation. Cross-discipline research and applications are revealing discoveries related to hydrological and land processes, climate, atmospheric composition, and ocean freshwater budget, also proving precipitation studies as a vital element in addressing societal issues.

We invite investigators to contribute original research articles as well as review articles that will stimulate the continuing efforts to understand precipitation physics and chemistry.

We are particularly interested in articles in case studies of precipitation estimation; advances in precipitation chemistry; satellite algorithms; CMIP5 climate analyses; solid precipitation science; drop size distribution modeling; uncertainty analysis; isotopic measurements of precipitation; precipitation and hydrological modeling; TRMM and GPM applications; and results from the E2KW 2013 conference (<http://congresse2kw.uclm.es/>). Potential topics include, but are not limited to:

- Raingauge estimates
- Interpolation methods
- Disdrometer estimates
- Precipitation chemistry
- Radar estimates of precipitation
- Drop size distribution modeling
- Precipitation in Regional Climate Models (RCMs)
- Precipitation in Global Climate/Circulations Models (GCMs)
- Aerosols and precipitation
- Assimilation of precipitation
- CMIP5 projections
- Solid precipitation
- Satellite estimates of precipitation
- Precipitation microphysics
- Numerical Weather Prediction (NWP) forecasts
- Precipitation chemistry
- Seasonal forecasting of precipitation
- Hydropower
- Isotopic measurements of precipitation
- Gravimetric methods

- CloudSat contribution to precipitation science
- Field campaign reports
- Integrated hydrological modeling

Before submission authors should carefully read over the journal's Author Guidelines, which are located at <http://www.hindawi.com/journals/amet/guidelines/>. Prospective authors should submit an electronic copy of their complete manuscript through the journal Manuscript Tracking System at <http://mts.hindawi.com/> according to the following timetable:

Manuscript Due	July 4, 2014
First Round of Reviews	September 26, 2014
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