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Precipitation under Climate Change: Observation, Analysis and Forecasting

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Deadline for manuscript submissions:

closed (15 January 2025)

Message from the Guest Editors

Dear Colleagues,

Precipitation variability and its distribution govern the hydrological cycle, which is critical for human needs regarding agriculture, freshwater, and ecosystems. Thus, authors are invited to submit research for this Special Issue focusing on observational datasets, novel precipitation reclamation algorithms, analysis methods, predicting techniques, and physical theories for the Earth's precipitation. We welcome the topics listed below and other scientific results related to this Special Issue:

- Long-term observations informing the impacts of climate change;
- New methods to detect or attribute global-warming-induced precipitation responses;
- Ground validation of remote sensing precipitation products;
- Existing precipitation observation network coverage and user requirements;
- Development of new numerical modeling techniques and physical parameterizations for improving precipitation forecasting;
- Projecting future precipitation and evaluating the impacts under different climate change scenarios;
- Investigations on sub-seasonal-to-seasonal prediction of precipitation;
- Climate-scale projections of future rainfall and snowfall, including extreme events.



mdpi.com/si/173081

Special Issue



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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

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Journal Rank: JCR - Q2 (Water Resources) / CiteScore - Q1 (Aquatic Science)

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