



Precipitation Observation and Modelling in Urban and Coastal Areas

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Message from the Guest Editors

To cope with these potential threats of extreme precipitation and associated hazards, multi-source observation techniques have been developed, including gauge, weather radar, and satellite. Precipitation forecasting models based on deterministic or probabilistic theory and techniques have also been proved to be successful. Therefore, the journal *Atmosphere* is dedicating this Special Issue to investigating precipitation analysis and modeling in urban and coastal areas.

Topics of interest for the Special Issue include but are not limited to:

- Developing precipitation products based on gauge, weather radar, satellite, and other observation systems;
- Comparing observed and multi-model simulated precipitation results;
- Analyzing precipitation trends/changes based on the specific weather systems or statistics on climate scales;
- Forecasting or nowcasting a short-term precipitation event;
- Evaluating the impacts of the urban environment, anthropic activities, and climate changes on precipitation processes;
- Projecting future precipitation and evaluating the impacts under different climate change scenarios;
- Modeling the response of an urban or coastal area to the hazard events.





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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!

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