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Precipitation in Taiwan and Neighboring East Asia Areas: Observation, Analysis, and Forecast

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Message from the Guest Editors

Disaster prevention and water resources management have always been the most critical issues in Taiwan. These concerns range from catastrophic floods caused by short-duration heavy rainfall to short-term climate droughts. This is not the case only in Taiwan, these threats are also common concerns among neighboring countries in East Asia. Therefore, this Special Issue to investigating the observation and forecast of rainfall with weather to climate time spans in Taiwan and neighboring East Asia regions. We invite you to contribute to this Special Issue with original research and review articles on topics including, but not limited to:

- Development of gridded rainfall observations based on rain-gauge, remote sensing, and other observation systems;
- Rainfall analysis based on the case associated with specific weather systems or statistics extended to a longer range;
- Development of deterministic/probabilistic rainfall forecast techniques with data science approaches;
- Development of quantitative precipitation forecast from nowcasting to short-term climate outlooks;
- Projections of future precipitation characteristics and impact under different climate change scenarios.



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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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