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Extreme Precipitation and Temperature as Key Indicators of Climate Change

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Deadline for manuscript submissions:
closed (1 March 2024)

Message from the Guest Editors

This Special Issue aims to gather new innovative results on the characteristics, mechanisms, future changes, and risk assessment of temperature extremes and heavy precipitation on regional and global scales. The primary goal is to improve our knowledge and understanding of extreme precipitation and temperature in a changing climate in addition to providing scientific bases for disaster risk management and climate change adaptation. Research areas may include (but are not limited to) the following:

- Mechanisms of extreme precipitation and temperature events;
- Detection and attribution of changes in extreme precipitation and temperature;
- Numerical simulations of extreme precipitation and temperature;
- Observed and projected changes in extreme precipitation and temperature;
- Prediction and early warning of extreme precipitation and temperature;
- Impacts of extreme precipitation and temperature on socioeconomic and human health;
- Risk assessment of extreme precipitation and temperature under climate change.

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Editor-in-Chief

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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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