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Climate Change and Climate Variability, and Their Impact on Extreme Events (2nd Edition)

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Deadline for manuscript submissions:
30 June 2024

Message from the Guest Editors

This Special Issue is the second volume in a series of publications dedicated to "Climate Change and Climate Variability, and Their Impact on Extreme Events". Our goal is to collectively advance the understanding of climate-related challenges and foster informed decision making for a sustainable future.

This Special Issue seeks contributions on observational and numerical modelling studies to enhance the understanding of the global or regional climate patterns and variations over time in some measures of climate. This issue also encourages articles that discuss a regional or global analysis of extreme weather and mesoscale events and their response to the ongoing trends in climate change and climate variability. Contributions with model simulations and evaluations for a deeper understanding of the physics and dynamics associated with climate-change-related weather hazards will also be considered. Submissions in, but not limited to, the following research areas are invited: climate change; climate variability; extreme events; climate modelling; hydroclimate; hydrometeorology.

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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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Journal Rank: CiteScore - Q2 (*Environmental Science (miscellaneous)*)

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