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Climate Change and Climate Variability, and Their Impact on Extreme Events

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Deadline for manuscript submissions:
closed (30 June 2023)

Message from the Guest Editors

Dear Colleagues,

In the present scenario, climate change and climate variability are of great concern around the world. Understanding the pattern of climate change and climate variability has been the focus of many researchers, and many efforts are being made to better frame the consequences of their future impacts. This Special Issue seeks contributions on observational and numerical modeling 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 regional or global analysis of extreme weather events and their response to the climate change and climate variability trend. Contributions on model simulations and evaluations to advance the understanding of 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 modeling; hydroclimate; hydrometeorology.

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Dr. Netrananda Sahu
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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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