Special Issue

Weather and Climate Extremes: Current Developments

Message from the Guest Editors

This Special Issue aims to gather the latest understanding of weather and climate extreme events worldwide from a broad perspective. Potential topics include, but not limited to:

- Case studies and climatology of wind extremes, wet and dry spells, as well as of heatwaves and cold spells
- Variability of wind, precipitation and temperature and the occurrence of extremes at different temporal and spatial scales
- Droughts and floods: Case studies and climatological analysis
- Marine heatwaves and marine cold spells
- Approaches and methods (e.g., indices, metrics, techniques) developed to measure extreme events
- Mechanisms associated with extreme events: Genesis, development, and termination. Observational and numerical analysis
- The role of the oceanic and atmospheric modes of variability for extreme events
- Extremes and climate change
- Risks, vulnerability and impacts: Assessment, mitigation and adaptation strategies

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Guest Editors

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Deadline for manuscript submissions

closed (30 April 2019)

Atmosphere

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Impact Factor 2.3
CiteScore 4.9

mdpi.com/si/12518

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About the Journal

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!

Editor-in-Chief

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