

Special Issue

Climate Change and Extreme Weather Disaster Risks (2nd Edition)

Message from the Guest Editors

Climate change has led to a surge in extreme weather events, with these including hurricanes, floods, droughts, and heatwaves. These disasters have increased in frequency, intensity, and prevalence, resulting in significant human and economic losses. For this reason, exploring the relationship between climate change and the risk of extreme disaster is crucial for both the comprehension of this relationship's underlying dynamics and the development of effective mitigation and adaptation strategies. This Special Issue will broaden our understanding of extreme climate disaster risks that result from climate change, reduce subsequent losses from extreme weather events, and forecast future changes in extreme climate disaster risks. In this Special Issue, original research, systematic reviews, and model studies related to the themes of climate change and extreme disaster risks are welcome. Example topics include, but are not limited to, the following:

- The global/regional assessment of extreme disaster risks;
- The characterization and attribution of extreme disaster changes;
- The early warning and management of extreme disasters;
- The analysis of compound extreme disaster co-occurrence risks.

Guest Editors

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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

Dr. Daniele Contini

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