



Extreme Weather Events and Geo-Climatic Hazards Under a Changing Climate

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Message from the Guest Editors

Meteorological events directly impact processes taking place at the Earth's surface. When extreme, they can trigger natural hazards like floods and landslides, posing a risk to the environment, humans, and infrastructure. Global warming is generally expected to intensify extreme weather events. This Special Issue aims to collect state-of-the-art contributions investigating this variability and its link with the onset of geo-climatic hazards through both physical and statistical modelling. Topics of specific interest include but are not limited to the following:

1. Impact of climate change on extreme weather characteristics;
2. Statistical analysis of extreme weather data;
3. Extreme weather, floods, landslides, and associated mechanisms;
4. Development of high space-time resolution datasets of meteorological variables to force hydrologic and stability models;
5. Evaluation of the performance of atmospheric model simulations in reproducing observed extreme climate;
6. Coupled atmospheric-hydrologic modelling of extreme events;
7. Flood and landslide risk management on the aspect of climate change;
8. Hazard mitigation and adaptation strategies.





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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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