Special Issue

Extreme Events and Risk of Disasters

Message from the Guest Editors

Climate change is an imminent threat for most humans in most areas around the world. As the Intergovernmental Panel on Climate Change Sixth Assessment Report (AR6) states, the human influence on the climate system is unequivocal, and various measures including frequency and intensity of weather extremes have shown an increasing trend in the present climate with about 1 degree surface warming. Understanding and quantifying the uncertainties associated with global and regional climate models regarding the projections of extreme weather and climate events is a challenge. In this sense, this Special Issue aims to invite potential contributors to submit novel and original papers outlining important scientific investigations based on studies on the changes of the frequency and the intensity of extreme events, including compound extreme events in present climate and future climate projections. The focus of this Special Issue also includes work on the monitoring and early warning of natural disasters or hydro-geo-meteorological origin for disaster risk reduction.

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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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