Special Issue

Weather Conditions Triggering Floods

Message from the Guest Editors

This Special Issue aims to compile state-of-the-art work from researchers who focus, but not exclusively so, on the study of extreme storm-caused floods and, in particular, this Special Issue welcomes theoretical and experimental research articles on the following topics, although progress reports on relevant research issues are also acceptable: - Rainstorm tracking using remote sensing techniques
- The synoptic associated situation responsible for the flash-flood occurrence
- The rainfall/meteorological context of severe weather conditions resulting in flooding
- Analysis of flash flood-triggering rainfall including or not rainfall-runoff modelling
- Case studies regarding hydrometeorological forecasts of specific flash flood events with emphasis to the use of radar rainfall estimates and NWP models
- Urban environment and extreme hydrological phenomena
- Seasonal characteristics of flood regimes (e.g., via using seasonality indices and atmospheric circulation patterns)
- Long-term study on the characteristics of the extreme rainfall event and consequent flash floods
Dr. Elissavet G. Feloni

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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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