



Weather Conditions Triggering Floods

Guest Editors:

Dr. Panagiotis Nastos

Laboratory of Climatology and Atmospheric Environment, Department of Geology and Geoenvironment, School of Sciences, National and Kapodistrian University of Athens, GR 15784 Athens, Greece

Dr. Elissavet G. Feloni

Deadline for manuscript submissions:

closed (15 March 2022)

Message from the Guest Editors

Dear Colleagues,

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

Prof. Dr. Panagiotis Nastos

Dr. Elissavet G. Feloni

Guest Editors





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Ilias Kavouras

Environmental, Occupational,
and Geospatial Health Sciences,
CUNY School of Public Health,
New York, NY 10027, USA

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!

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, Inspec, CAPlus / SciFinder, Astrophysics Data System, and other databases.

Journal Rank: CiteScore - Q2 (*Environmental Science (miscellaneous)*)

Contact Us

Atmosphere Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/atmosphere
atmosphere@mdpi.com
[X@Atmosphere_MDPI](#)