



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

Guest Editors:

Dr. Corrado Camera

Dipartimento di Scienze della Terra "Ardito Desio", Università degli Studi di Milano, 20133 Milan, Italy

Dr. Georgios Zittis

Climate and Atmosphere Research Center, The Cyprus Institute, Nicosia 2121, Cyprus

Deadline for manuscript submissions:

closed (31 March 2021)

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.





an Open Access Journal by MDPI

Editor-in-Chief

Dr. Daniele Contini

Institute of Atmospheric Sciences and Climate (ISAC), National Research Council (CNR), Str. Prv. Lecce-Monteroni km 1.2, 73100 Lecce, Italy

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, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/atmosphere
atmosphere@mdpi.com
[X@Atmosphere_MDPI](https://twitter.com/Atmosphere_MDPI)