



Floods and Climate

Guest Editors:

Prof. Dr. Francesco Cioffi

Department of Civil
Constructional and
Environmental Engineering,
University of Rome 'La Sapienza',
Rome, Italy

Dr. Vito Telesca

School of Engineering (SI-
UniBas), Università degli Studi
della Basilicata, Potenza, Italy

Deadline for manuscript
submissions:

closed (31 July 2019)

Message from the Guest Editors

The awareness that the radiative effects of recent anthropogenic changes in atmospheric composition are expected to cause climate changes has put into discussion the basic paradigms of traditional approaches until now followed by hydrologists and water resources engineers: the steadiness and randomness of flood processes bounded at catchment scale. A number of scientists and researchers are emphasizing the necessity of enlarging the approach to estimate flood magnitude and frequency, including global deterministic processes, spatial and temporal large-scale circulation patterns, and global climate mechanisms.

This enlargement of the view poses a number of challenges, since the prediction of future changes of the precipitation regime in continental regions remains uncertain, especially for extreme events such as floods. This Special Issue intends to collect scientific contributions exploring approaches for frequency and magnitude flood predictions under climate change, projection uncertainty assessment, and the identification of successful adaptation, mitigation, and risk management policies for climate change.





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](https://twitter.com/Atmosphere_MDPI)