



Extreme Hydro-Climate Events: Past, Present, and Future

Guest Editors:

Dr. Haiyun Shi

Prof. Dr. Bellie Sivakumar

Dr. Suning Liu

Dr. Xuezhi Tan

Dr. Nasser Najibi

Deadline for manuscript
submissions:

closed (31 December 2021)

Message from the Guest Editors

Dear Colleagues,

In recent years, extreme hydroclimate events (such as floods and droughts) have occurred more frequently, leading to significant threats to lives and damage of property. It is, therefore, important and necessary to 1) better understand their mechanisms of occurrence and evolution, 2) propose more effective methods for early warning, and 3) develop novel techniques for risk analysis and vulnerability analysis. This Special Issue aims to collect the latest methodological developments and applications in studying both historic and future extreme hydroclimate events. Potential topics include, but are not limited to, the following:

- Dynamics, mechanisms, and evolutions of extreme hydroclimate events
- Development of methods for identification and early warning of extreme hydroclimate events, especially in ungauged basins
- Improvements to information integration using multisource data
- New techniques for risk analysis and vulnerability analysis of extreme hydroclimate events
- Mitigation practices for real-world extreme hydroclimate events

Dr. Haiyun Shi

Prof. Dr. Bellie Sivakumar

Dr. Suning Liu

Dr. Xuezhi Tan

Dr. Nasser Najibi

Guest Editors



mdpi.com/si/60908

Special Issue



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)