

Special Issue

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

Message from the Guest Editors

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

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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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