

Special Issue

Climate Change and Its Impacts in Arid and Semi-Arid Regions: Past, Present and Future

Message from the Guest Editors

We are delighted to announce a call for papers for a Special Issue on "Climate Change in Arid and Semi-Arid Regions and Its Impact", focusing on the major challenges and opportunities arising from climate change in these vulnerable ecosystems of dry regions. Contributions from a variety of disciplines that address the following key themes will be invited:

- Climate variability and extreme weather events;
- Impact of climate change on hydrology and water balance in arid regions;
- Water scarcity and management;
- Agricultural adaptation and food security;
- Land degradation and biodiversity loss;
- Arid cities;
- Human health and livelihoods;
- Climate policy and governance;
- Technological innovations and sustainable solutions;
- Social dimensions and community resilience.

We invite original research articles, reviews, and case studies that contribute to a deeper understanding of the impacts of climate change on arid and semi-arid regions, as well as innovative approaches to adaptation and sustainable development.

Guest Editors

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Deadline for manuscript submissions

26 December 2025



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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

Dr. Daniele Contini

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