

Special Issue

Extreme Precipitation and Responses to Climate Change

Message from the Guest Editors

Against the backdrop of global warming, the melting of glaciers, rising sea levels, and the escalation of various extreme events have become increasingly prevalent. It is critically important for us to reveal the changes in extreme weather and its causal mechanism through observations and models. In this context, understanding the variations in the frequency and intensity of global extreme precipitation events is of paramount importance for enhancing our capacity to address catastrophic weather occurrences. This Special Issue aims to unveil the changes in and underlying patterns of extreme precipitation events in different global regions, a theme that is closely aligned with the overarching theme of climate in this journal. We invite submissions of research articles on the following topics:

- Extreme precipitation, high temperatures, cold waves, snowfall, hail, and other high-impact weather events;
- Trends in extreme weather changes;
- Mechanisms of extreme weather events;
- High-impact weather forecasting, warning technologies, and assessment.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Climate (ISSN 2225-1154) was established in 2013 to provide an open-access outlet for innovative research, review articles, new direction papers, and short communications relevant to all disciplines related to climate at all scales. The journal encourages papers ranging from climate change detection and attribution and Earth system modeling to ecosystem, hydrologic, and socioeconomic impacts and climate mitigation and adaptation measures. The influence of *Climate* is strong and growing (IF 3.2 in 2024, CiteScore 5.7 in 2024).

Editor-in-Chief

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High Visibility:

indexed within Scopus, ESCI (Web of Science), GeoRef, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Meteorology and Atmospheric Sciences) /
CiteScore - Q2 (Atmospheric Science)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 21.6 days after submission; acceptance to publication is undertaken in 3.9 days (median values for papers published in this journal in the first half of 2025).