

## Special Issue

# Cascading Climate Risks: Modelling Compound Events and Systemic Vulnerabilities

### Message from the Guest Editors

In our increasingly interconnected global system, climate-driven hazards no longer occur in isolation. This Special Issue aims to advance climate risk research by shifting the focus from isolated hazards to a systemic, multi-dimensional framework. Our goal is to synthesize cross-disciplinary insights that provide a robust scientific foundation for navigating the challenges of a warming world.

Primary themes of interest include, but are not limited to:

**Compound Extremes:** Analysis of co-occurring or back-to-back hazards (e.g., synchronous droughts, heatwaves, and subsequent wildfire-to-flood transitions).

**Network Vulnerability:** Assessing how climate shocks propagate through global supply chains, energy grids, and critical transport infrastructure.

**Socio-Physical Feedback Loops:** Investigating the interplay between physical climate tipping points and social instability or migration.

**Advanced Risk Governance:** Development of adaptive strategies for managing high-uncertainty "black swan" events and systemic failures.

**Rural-Urban Dynamics:** Examining the differential and linked impacts of cascading disasters across varied settlement scales.

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### Guest Editors

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### Deadline for manuscript submissions

20 November 2026



## Climate

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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).

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### Editor-in-Chief

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### Author Benefits

#### High Visibility:

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#### Journal Rank:

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#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 20.8 days after submission; acceptance to publication is undertaken in 3.8 days (median values for papers published in this journal in the second half of 2025).