

## Special Issue

# Tropical Cyclones Dynamics and Forecast System

### Message from the Guest Editors

Tropical cyclone intensity, rainfall, and larger storm surges are likely to increase as a result of global climate change, and they may intensify more rapidly and occur at higher latitudes. These results may be driven by rising sea temperatures and increased maximum water vapor content in the atmosphere as the air heats up. This Special Issue will focus on:

- Assessment of the effect of climate change on tropical cyclone activity, including intensity, rainfall, and coastal flood risk;
- Seasonal to sub-seasonal tropical cyclone predictions and future tropical cyclone probabilistic forecasts;
- Climatological dataset analysis and uncertainty for intensity trend detection and control of tropical cyclones' natural variabilities.

This Special Issue will provide the larger research community with a platform to share the most current advancements in these fields regarding climate change aspects of global or regional TC activity. Both fresh observational and modeling-based research are encouraged in this Special Issue.

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### Guest Editors

Dr. Sen Chiao

Dr. Das Debanjana

Dr. Shaowu Bao

Dr. Nakul Karle

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### Deadline for manuscript submissions

closed (30 November 2023)



## 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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#### High Visibility:

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#### Journal Rank:

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CiteScore - Q2 (Atmospheric Science)

#### 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).