# 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.

## Guest Editors

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## Deadline for manuscript submissions

closed (30 November 2023)

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# About the Journal

## Message from the Editor-in-Chief

## Editor-in-Chief

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**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).