

## Special Issue

# Regional Weather-Driven Disasters: The Influence of Atmospheric Dynamics

### Message from the Guest Editor

This Special Issue focuses on the complex interplay between atmospheric dynamics and weather-driven disasters at regional scales. As extreme weather events such as hurricanes, tornadoes, floods, droughts, fire, Arctic burst, and heatwaves intensify due to climate variability and change, understanding their atmospheric drivers has become increasingly critical. Atmospheric circulation patterns, jet streams, pressure systems, and mesoscale phenomena play pivotal roles in shaping the frequency, intensity, and spatial distribution of these events.

We invite original research articles, case studies, and review papers that delve into the mechanisms linking atmospheric dynamics to weather-driven disasters. Topics of interest include, but are not limited to, the role of teleconnections in regional extreme events, advancements in predictive models, the influence of climate oscillations, data analysis, and the development of mitigation and adaptation strategies informed by atmospheric science.

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### Guest Editor

Dr. Vinay Kumar

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### Deadline for manuscript submissions

closed (20 March 2026)



## Water

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## About the Journal

### Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

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### Editor-in-Chief

Dr. Jean-Luc PROBST

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