

Special Issue

Impacts of Extreme Weather on Hydrological Process, Water Quality and Ecosystem in Agricultural and Forested Watersheds under the Changing Climate

Message from the Guest Editors

This Special Issue was inspired by the Hydrology-H030 Session of the 2021 AGU (America Geophysical Union) Fall Meeting. Extreme weather such as hurricanes and heavy storms are not frequent but disrupt events such as social activities and natural processes. Recent evidence confirms that the unnatural effects of climate change are making extreme weather more frequent and destructive. Currently, insufficient efforts have been devoted to characterizing the severe impacts of extreme weather on hydrology, water quality, and the ecosystem in agricultural and forested watersheds under the changing climate. Here, we invite papers to tackle these challenges. All aspects of extreme weather-induced issues such as hydrological processes (e.g., stream channel alteration, flood, drought, evapotranspiration, and water yield), water quality constituents (e.g., nutrients, sediment, biomass, and organic carbon), and ecological services (e.g., wetlands and habitats) along with proactive management practices are welcome.

Guest Editors

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Deadline for manuscript submissions

closed (31 May 2025)



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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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