Special Issue

Hydro-Meteorological Hazards: Causes, Impacts, and Mitigation Strategies

Message from the Guest Editors

Hydro-meteorological hazards, including extreme events like floods, hurricanes, and droughts, are increasingly frequent and intense due to climate change and rapid land-use changes. These hazards pose significant threats to ecosystems, water resources, infrastructure, and human life. This Special Issue seeks to advance our understanding of hydro-meteorological hazards by bringing together studies that explore their causes, impacts, and mitigation strategies. It addresses themes such as (1) the physical and climatological drivers of hydro-meteorological hazards, (2) advanced modeling techniques for forecasting extreme events, (3) impacts on ecosystems and socio-economic systems, (4) sustainable land and water management practices, and (5) early warning and risk mitigation technologies. Submissions may also cover policy-oriented approaches and cross-disciplinary studies that connect environmental science with public health, socioeconomics, and urban planning.

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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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