Special Issue

The Impacts of Climate Change on Hydrology and Water Resources

Message from the Guest Editors

Climate change is exerting an influence on the hydrological cycle & availability of water resources. Alterations in precipitation patterns, evapotranspiration rates & the frequency of extreme weather are significantly impacting river flows, groundwater recharge & water quality. Understanding these complex interactions is crucial for water resource management & adaptation planning.

This SI focuses on the multifaceted impacts of climate change on hydrology & water resources across diverse spatial & temporal scales. We welcome contributions that investigate changes in hydrological processes, assess the vulnerability of water resources to climate change, develop methodologies for climate change impact assessment on water systems & explore adaptation strategies for sustainable water resource management. It includes, but is not limited to, climate change impacts on surface water/groundwater, hydrological modeling under changing climates, water scarcity & drought, flood risk assessment, compound/consecutive water-related hazards, impacts on water quality & aquatic ecosystems, the development of climate-resilient water infrastructure & governance.

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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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