Special Issue

Modified Hydrological Cycle under Global Warming

Message from the Guest Editors

Global warming is affecting water hydrological cycles worldwide, changing precipitation amounts and timing and hydrologic losses, and making previously extreme events more frequent. Hydrology and water resources in high altitudes are affected by cryospheric down wasting, and downstream desert areas may lose large amounts of water resources. The modified water cycle under global warming will have fallout on water and food security, energy production, ecosystem services, and adaptation measures will be needed. This Special Issue will, thus, welcome contributions tackling the broad range issue of hydrological changes, water availability, and adaptation in a broad array of conditions, such as:

- Hydrological modeling under global warming;
- Water resources prediction, sensitivity analysis, and adaptation measures;
- Climatic and hydrological trends' assessment;
- Impact of climate change on cryospheric water;
- Enhanced magnitude of extreme events;
- Modified water needs for multipurpose use;
- Effects of modified hydrology on riverine environment.

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Deadline for manuscript submissions

closed (30 April 2018)



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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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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).

