

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.

Guest Editors

Prof. Dr. Heejun Chang

Department of Geography, Portland State University, Portland, OR 97201, USA

Dr. Yonas B. Dibike

EC/W-CIRC, University of Victoria, P.O. BOX 3060 STN CSC, Victoria, BC V8W 3R4, Canada

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Climate
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
climate@mdpi.com

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Dr. Timothy G. F. Kittel
Institute of Arctic and Alpine Research, University of Colorado Boulder,
Boulder, CO 80309-0450, USA

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