

Special Issue

Climate Change Impacts on Hydrologic Variables across Timescales and Spatial Scale

Message from the Guest Editors

Climate change is a mounting stress on human societies and natural systems, and its influence on the hydrological cycle is unneglectable. Rising global temperature leads to an increased evaporation rate, speeding up parts of the water cycle with more precipitation and even increasing the likelihood of coastal flooding. However, enhanced evaporation can reduce surface water and contribute to drought. To facilitate emergency response and mitigate socio-economic loss, it is necessary to advance the current understanding of the mechanisms and processes that contribute to the impacts of climate change on hydrologic variables, such as precipitation, moisture transport, and soil moisture. This Special Issue focuses on climate change impacts on the hydrological cycle, including hydrometeorological interaction and hydroclimate extremes. Potential submissions include but are not limited to: observational analysis mechanisms and processes study the assessment of projection uncertainties the assessment of regional and spatial dependencies approaches to quantify the future changes in hydroclimate extremes.

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