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Application of Climatic Data in Hydrologic Models

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Message from the Guest Editors

Over the past few decades, global warming and climate change have impacted the hydrologic cycle. Many models (e.g., the Variable Infiltration Capacity (VIC) model, Mosaic, Noah, Sacramento (SAC), Soil and Water Assessment Tool (SWAT), MODFLOW, Weather Research and Forecasting-Hydrology (WRF-Hydro), and European Hydrological System Model (MIKE SHE)) have been developed to simulate hydrologic processes. The performance of these models partly depends on the accuracy of their input climatic data. Obtaining accurate climatic data on local, meso, and global scales is essential for the realistic simulation of hydrologic processes. However, the limited availability of climatic data often poses a challenge to hydrologic modeling efforts. This Special Issue (SI) aims to present recent advances concerning climatic data and their applications in hydrologic models. For this SI, we invite studies on the following main themes:

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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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