Special Issue

Climate Modeling and Impacts of Climate Change on Hydrological Cycle

Message from the Guest Editor

This Special Issue focuses on climate model simulation technology and the mechanisms by which climate change drives the hydrological cycle system, this special issue invites the submission of original research and review papers. It aims to construct a multi-scale (global-basin-regional) coupled climate-hydrological prediction framework. Based on different greenhouse gas emission scenarios (RCPs), it quantitatively analyzes the impact of climate change on runoff, evaporation, soil moisture, and extreme hydrological events (e.g., floods, droughts), revealing the spatiotemporal heterogeneity characteristics of hydrological responses. The research also investigates the mechanisms of hydrological process changes in sensitive regions, such as glacier melting in the Qinghai-Tibet Plateau and precipitation variability in monsoon areas. This Special Issue aims to provide valuable insights to policymakers and the scientific community by combining climate model predictions with water resource management practices, supporting the implementation of sustainable water resource management and climate adaptation strategies.

Guest Editor

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

Dr. Jean-Luc PROBST
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