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Climate Change Impact on Hydrological Cycle and Water Resources Management

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Deadline for manuscript submissions:
closed (31 January 2023)

Message from the Guest Editors

Global warming can alter the hydrological cycle in various forms such as increased cloudiness and latent heat fluxes, leading to more intensive and frequent precipitation extreme events (e.g., droughts, storms, and floods). In addition to these common hydrological challenges, coastal communities are further threatened by rising sea level and increasing storm surge and erosion. Adapting to these challenges requires a thorough understanding of the potential impacts of climate change from a long-term and systematic perspective.

This Special Issue focuses on the latest research advances in hydroclimate, coastal hydrology, hydrological extremes, and sustainable water resources management. Submissions in the form of research articles, reviews, perspectives, and case studies are all welcome. Research topics may include (but are not limited to) the following:

- Climate change modeling;
- Climate downscaling;
- Hydroclimate modeling;
- Flood modeling;
- Hydrological cycle;
- Hydrological extremes (e.g., droughts, storms, and floods);
- Coastal hydrological challenges (e.g., sea level rise, coastal erosion, and storm surge);
- Water resources monitoring and management;
- Sustainable irrigation.

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Special Issue

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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.

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