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Long-Term Climate Modeling and Hydrological Projection

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Climate change has significant impacts on water resource systems. Such impacts may involve the hydrological cycle and the related human interests, such as water supply, drought prevention, and flooding control. With the effects of climate change, planning for various water-related infrastructure will also need to be updated. Therefore, long-term climate modeling and hydrological projection are essential for supporting the improvements of such plans.

This Special Issue encourages contributions of (1) coupled models for long-term hydroclimate simulation; (2) hydrologic impacts based on long-term climate projections, driven by GCMs, RCMs, and statistical downscaling models; (3) adaptation of climate-change impacts on the hydrological cycle, associated with the analyses of their socioeconomic and environmental effects; and (4) reflection of uncertainties in long-term climate modeling and hydrological projection, as well as the relevant efforts for adaptation planning.

Prof. Dr. Gordon Huang
Guest Editor



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Special Issue



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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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