



Past and Future Trends and Variability in Hydro-Climatic Processes

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Deadline for manuscript
submissions:

closed (28 February 2021)

Message from the Guest Editors

This Special Issue focuses on the assessment of past trends and variability and projected future changes in hydro-climatic processes that affect freshwater availability on local, regional, and/or larger scales. Submissions related to the following research areas are requested, especially as they pertain to the hydro-climatology of cold regions:

- Various aspects of the water cycle including (but not limited to) precipitation, evapotranspiration, streamflow, water levels, snowpack, snowmelt, glaciers, permafrost, soil moisture, and groundwater, particularly as they relate to freshwater availability in lakes, rivers, wetlands, and/or deltas.
- Past and/or future changes in hydro-climatic extremes such as droughts/low flows and floods.
- Environmental flow needs related to the quantity, timing, and quality of freshwater flows and levels.
- Trends and changes in hydro-climatic parameters associated with human-built infrastructure (dams, reservoirs, diversions, fragmentation) and land use change.

Contributions using new and emerging methods in statistical and process-based modelling are especially welcome.





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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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