Special Issue

Changes in the Regimes of Glacial and Permafrost-Influenced Watersheds in the High Arctic

Message from the Guest Editors

The aim of this volume is to present recent research results on the conditions of river systems in High Arctic areas with different sources of supply. In the planned volume, we wish to discuss the trends and dynamics of water outflow in rivers with glacial, snowmelt and permafrost hydrological regimes during periods of observed rapid environmental changes. Furthermore, it is also of great interest to determine the role of snowmelt and complex floods in water and sediment transport. Another key issue concerns the degradation of permafrost and its contribution to surface runoff and the entire water balance of the Arctic catchments. The scope of discussion in this Special Issue will include, but is not limited to, the following:

- Arctic hydrological processes changes at different scales;
- Surface and river runoff;
- Permafrost degradation and overland flow;
- Arctic river hydrological regime changes;
- Arctic river flow dynamics and changes;
- Changes in river geochemistry;
- Summertime river flow conditions;
- Hydrodynamics and hydraulics of channel flow;
- Stream network development.

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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

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