Special Issue

Hydrology of the Arctic Region

Message from the Guest Editor

The Arctic system is experiencing the effects of global change, especially atmospheric warming, to a degree equal to or greater than that in any other region on the planet. Arctic water and energy cycles are embedded deeply into these changes and in defining both the Arctic and Earth system response. A broad spectrum of observational evidence suggests a potentially intensified high latitude water cycle and significant changes in different components of Arctic hydrology, including changes in river flow and river biogeochemistry, permafrost degradation and melting of glaciers, lengthened ice-free period in lakes and rivers, disappearance of lakes, and reductions in snow cover and river/lake ice thickness. This Special Issue invites papers focusing on the quantification of contemporary changes in various components of the Arctic hydrological system and on assessment of the potential causes of these changes through analysis of various data (ground, field, remote sensing) and/or numerical modeling. We also invite publications discussing and analyzing future changes in Arctic hydrological processes in different scales from local to regional and continental.

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2021)

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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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