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Assessment of Glacier Changes

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Message from the Guest Editors

Glaciers are among the most dynamic elements of the solid Earth; they release water, scour bedrock, cool the weather in summer, and advance down valleys or retreat into high basins. Under the present climate scenarios, the ongoing rapid and perhaps accelerating trend of worldwide glacier shrinkage, on the century timescale, is most likely of nonperiodic natural phenomena. For people living in glacierized mountain valleys, glaciers supply water for drinking, irrigation, heavy industry, and electrical power. For others, the release of too much water in a short time (e.g., GLOFs) can be a life-and-death issue irrespective of whether it is linked to climate change. Therefore, glacier changes and the associated issues have been a topic of exceptional scientific interest. In this Special Issue, we welcome papers focusing on glacier change, including but not limited to glacier monitoring, glacial hydrology, and glacier disasters. Both general methodological contributions and case studies of glacier change across different regions covering a wide range of spatial scales are 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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