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Impacts of Climate Change and Anthropogenic Activities on the Spatio-Temporal Variability of River Flow

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Message from the Guest Editor

In many regions of the world, the flows in rivers have profoundly changed as a result of human activities, including damming, urbanization, agriculture, deforestation, irrigation, withdrawals, and diversions. The pace of some of these changes has increased as a result of current climate change. Thus, the frequency, duration, and flow intensity of many rivers in certain regions of the world have increased, whereas, in other parts of the world, changes in streamflow arising from climate change have led to the increased frequency, duration, and intensity of hydrological droughts.

All of these changes have socioeconomic impacts, including increasingly high financial and human costs. From an ecological standpoint, the impacts of these changes in streamflow generally translate into lower biodiversity in fluvial ecosystems.The main goal of this Special Issue is to bring together studies looking into the impacts of human activity and climate change on streamflow characteristics (magnitude, duration, timing, frequency, and variability) in different regions of the world.

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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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