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Climate Change and Anthropogenic Impacts on Wetland Ecosystems in Siberia: Past, Present, and Future

Guest Editors:

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Deadline for manuscript submissions:
closed (30 September 2023)

Message from the Guest Editors

Various types of wetlands—peatlands, rivers, lakes, and floodplains—occupy vast territories in Siberia. For example, in Western Siberia, their area reaches 70% of its total space. Siberian wetlands are the largest terrestrial carbon storages and perform an important global climate-regulating function. In the non-permafrost regions of Siberia, they predominantly sequester and deposit carbon, while in permafrost areas, they are powerful sources of carbon emissions. These processes are insufficiently studied and are of undeniable relevance. While the carbon balance and biogeochemical processes of peatlands have been more or less studied, such aspects remain a blank spot in the floodplains of Siberian rivers.

This Special Issue welcomes articles dedicated to the climatically and anthropogenically determined dynamics of wetlands, their regional and global significance, the specifics of wetland formation in the past, and forecasts of their state in the future. Particular attention will be paid to risks associated with the latest climate extremes, such as heat waves and possible large-scale peat fires.

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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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