



water

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Physical Processes in Lakes

Guest Editor:

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Message from the Guest Editor

Biological processes in lakes very much relate to physical processes such as mixing and exchange between water, atmosphere, and sediment. Technical systems must be adapted to lake physics. The numerous climatological studies of today are mostly related to large-scale processes and do not involve lakes in detail. Additionally, the thermal conditions are different in tropical lakes, temperate lakes, and arctic lakes, and during different parts of the year. In moderately high latitudes and high altitudes, lakes are ice covered for long periods. Thermal processes are strongly related to mixing.

Water now intends to publish an Issue where new findings on physical processes in lakes can be gathered. Contributions can be on broad topics, such as vertical and horizontal mixing and exchange of water between different parts of a lake; exchange processes between water and atmosphere and between water and sediment including heat, mass, dissolved oxygen, and CO₂; and the effects of resuspension and sedimentation on biological life and light conditions. We are especially interested in the comparison of lakes in different climates and environments, and expected future changes.



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Special Issue



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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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