Special Issue

Climate Change and Plankton Dynamics in Freshwater: Current Trends and Future Perspectives

Message from the Guest Editor

Phytoplankton and zooplankton constitute the base of pelagic food webs. Climate warming may result in modifications to aquatic food web structure and phenology, including trophic interactions between phytoplankton, zooplankton, and planktivorous fish.

It is critically important to understand how plankton communities are impacted by water quality changes that accompany climate warming. Impacts to ecosystem services provided by plankton communities are of great interest to water resource managers attempting to mitigate some of the negative effects of climate change on freshwater ecosystems. This Special Issue invites contributions relating freshwater plankton communities to altered environmental conditions as the global climate warms. Potential research topics include brownification, hypoxia, harmful algal blooms, multiple stressors, loss of freshwater diversity, adaptation strategies, changing thermal regimes, hydrologic connectivity, linear vs. threshold responses, plankton community size–structure, ecological efficiency of food webs, invasive species, spatial/temporal analyses and distribution shifts.

Guest Editor

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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

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