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

Guest Editor:

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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.



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Special issue



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Message from the Editor-in-Chief

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