

Special Issue

Long-term Phytoplankton Dynamics in Ecosystem

Message from the Guest Editor

Marine phytoplankton plays a crucial role in the regulation of the planet's climate, this component of the ecosystem captures and transfers atmospheric carbon to the deep layers of the ocean or to the ocean floor. At the same time, climate is an important regulator of phytoplankton. Climate affects the productivity and structure of phytoplankton, as well as the phenology of blooms. It is possible to reveal the influence of climate only with the use of a long-term series of observations. In addition, only long-term dynamics allow us to identify complex relationships in the chain: the physical processes - hydrochemical conditions - phytoplankton growth and understand the main mechanisms of ecosystem functioning. Therefore, direct measurements are of particular importance. Given the importance of long-term observations, our journal proposes to organize a Special Issue, in which shifts in the structure and productivity of the phytoplankton community and phenology of the bloom are traced (or not traced) using long-term observations. It is possible to use a long-term series of direct measurements, remote sensing results, and a combination of different methods.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

The *Journal of Marine Science and Engineering* (JMSE, ISSN 2077-1312) is an international peer-reviewed open access journal which provides an advanced forum for studies related to marine science and engineering. The journal aims to provide scholarly research on a range of topics, including ocean engineering, chemical oceanography, physical oceanography, marine biology and marine geosciences. We invite you to publish in our journal sharing your important research findings with the global ocean community.

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