



Recent Research on Climate Change Mechanisms in Ancient Oceans

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Message from the Guest Editors

Dear Colleagues,

Observations and projections confirm that the climate is shifting to a warmer state at an unprecedented rate, inducing major changes in ocean chemistry and dynamics, among other perturbations. There is no historical precedent for this rapid, high-amplitude global change, and finding perfect analogues for current observations and future projections remains challenging. In this context, paleoclimate reconstruction is a critical approach to providing elements of comparison. Reconstructing past ocean variability is especially of interest, as it acts as a major biogeochemical pool as well as a key component of climate dynamics.

Unraveling changes in ancient oceans is made possible by the development and combination of various approaches, proxies, and tools. Nevertheless, the quality and number of records means that it remains a challenge to obtain quantitative information useful for modeling.

This Special Issue is dedicated to cutting-edge contributions highlighting changes in the ocean (e.g., chemistry, structure, dynamics) in the past, using paleorecords as well as modeling.





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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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