

Special Issue

Recent Research on Climate Change Mechanisms in Ancient Oceans

Message from the Guest Editors

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.

Guest Editors

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Deadline for manuscript submissions

closed (25 November 2024)



Journal of Marine Science and Engineering

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.0



mdpi.com/si/203216

*Journal of Marine Science and
Engineering*

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About the Journal

Message from the Editor-in-Chief

Journal of Marine Science and Engineering (JMSE, ISSN: 2077-1312) focuses on research in the fields of Ocean Engineering, Coastal Engineering, Physical Oceanography, Geological Oceanography, Marine Biology, and Marine Environmental Science. It publishes reviews, regular research papers, and short communications, as well as Special Issues on particular subjects. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the maximum length of the papers.

Editor-in-Chief

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