

Special Issue

Origin of Oceanic Plateaus, Submarine Ridges, and Seamounts, and Their Physical and Biogeochemical Consequences

Message from the Guest Editor

Oceanic plateaus, submarine ridges, and seamounts are important features, but their geological origins have been widely disputed over the last 40 years. Their deepened crustal and lithospheric roots may induce thermal anomalies in the crust and mantle and small-scale sublithospheric convection. They host crusts rich in cobalt, nickel, and rare earth elements, and they are also the source of significant ecosystem services. Seamounts and submarine ridges can influence local ocean circulation and vertical mixing and serve as important sedimentary barriers. Their anomalous hydrothermal circulation, large gas discharging, and thermal states can have significant biogeochemical consequences. In this Special Issue, we would like to call for synergetic contributions from marine geologists and geophysists, physical oceanographers, and biogeochemists, focusing on reviews, observations, mapping, and modeling of systems of oceanic plateaus, submarine ridges, and seamounts.

Guest Editor

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Deadline for manuscript submissions

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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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