

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 geophysicists, physical oceanographers, and biogeochemists, focusing on reviews, observations, mapping, and modeling of systems of oceanic plateaus, submarine ridges, and seamounts.

Guest Editor

Prof. Dr. Chun-Feng Li
Ocean College, Zhejiang University, Zhoushan, China

Deadline for manuscript submissions

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Journal of Marine Science and Engineering
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jmse@mdpi.com

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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

Prof. Dr. Charitha Pattiaratchi

School of Engineering, The UWA Oceans Institute, The University of Western Australia, Perth, WA 6009, Australia

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