



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

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### Message from the Guest Editor

Dear Colleagues,

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.





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## Message from the Editor-in-Chief

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