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# **Ocean Dynamics: Numerical Models and Applications**

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Deadline for manuscript submissions:

closed (31 August 2022)

### **Message from the Guest Editors**

Recent applications of theoretical, observational, and numerical modeling techniques to ocean processes, as well as several interdisciplinary fields, have led to a more in-depth study of nearshore ocean physics, continental shelf physical processes (such as turbulence and internal waves, tides and internal tides, offshore circulation, fronts, and wind-waves), biogeochemical feedbacks, hydrodynamics and circulation processes, and submesoscale and small-scale dynamics. These play a very important role in improving operational oceanographic services.

This Special Issue on "Ocean Dynamics: Numerical Models and Applications" will focus on both ocean models' applications and established/new implementations of ocean models. All areas of ocean dynamics, from large ocean circulations to single vortices, or plume structures to small-scale turbulence, are welcome. Papers focusing on theoretical or observational (in situ or remote sensing monitoring or satellite observations) applications and modeling studies; variant numerical methods; and machine learning, artificial intelligence, data assimilation, remote sensing techniques, and applications are also welcome.











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## **Message from the Editor-in-Chief**

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