Special Issue

Advances in Modeling Studies of Dissolved Oxygen in Estuaries and Coastal Seas

Message from the Guest Editors

Hypoxia or low dissolved oxygen (DO) condition is one of the most critical global environmental problems in estuaries and coastal seas. Hypoxic conditions could cause mass mortality of aquatic organisms, modify biogeochemical cycles, degrade ecosystem services, and reduce fishery yield. To help restoring ecosystem and preparing for future changes in ecosystem services that our estuaries and coastal seas provide, theoretical and biogeochemical models have been used to advance our understanding of the interactions between hydrodynamic and biochemical processes causing hypoxia and predict the future changes in ecosystem. This Special Issue aims to present the recent advances in modeling studies of DO and model applications to advance our knowledge of causing and changes in hypoxia in estuaries and coastal seas. All numerical, theoretical, and data-driven modeling studies of DO are encouraged and will be considered. We will seek a balance between contributions from natural sciences and engineering, as well as solving real environmental problems under current and future climate conditions.

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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.

Editor-in-Chief

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