



The Ice-Ocean Boundary

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Message from the Guest Editors

Dear Colleagues,

As climate change continues to reshape the polar environment, it is increasingly important that we fully understand the range of physical processes by which the ocean and the ice interact and the roles these processes will play in defining the future of the Arctic and Antarctic. Ocean currents and waves exert significant force on surface ice through drag and pressure variations. Fluctuations in temperature and salinity affect sea-ice-associated biota, ocean circulation, and the distribution, rheology, and material properties of the ice. Surface ice insulates the ocean beneath from atmospheric processes like solar radiation and wind forcing. The ice-ocean boundary is the primary interface at which these phenomena can be measured and modeled, and yet much about it remains unknown.

In this Special Issue, we welcome contributions from a broad range of theoretical, modeling, field and laboratory research into processes that affect the ice-ocean boundary region.

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Message from the Editor-in-Chief

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