



water

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Sea Level Response to Ice Sheet Variations

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Message from the Guest Editor

Whether from record-high temperatures triggering the flow of meltwater from the surface of the Greenland Ice Sheet into the ocean, or from warming ocean currents eroding the floating margins of the Antarctic Ice Sheet, the effects of climate change on land ice present a serious risk of significant sea-level rise in the coming decades and centuries. This in turn presents social, economic, and ecological challenges, making reliable projections of the rate and eventual magnitude of sea-level rise a critical research problem.

Considering this problem from a broad scope, research on the following topics may be relevant:

- Dynamics of ice sheets, ice streams, and ice shelves relating to enhanced transport of land ice into the ocean;
- Observations and/or projections of high-latitude atmospheric conditions and their impact on ice-sheet surface thermodynamics;
- Observations and/or projections of high-latitude oceanic conditions and their impact on ice-shelf dynamics;
- Hydrology related to the flow of liquid water at the surface and/or bed of ice sheets, ice streams, and glaciers.



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Message from the Editor-in-Chief

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