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Thesis Title:

From Antarctic sea ice unleashing glaciers to Alaskan icefalls releasing ogives: investigations of glacier processes using remote sensing, field data, and numerical modeling

Have you performed research involving human subjects which requires approval from the Institutional Review Board (IRB)? ☐ Yes ☒ No

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Have you used live animals, animal tissue, or observational animal work which requires approval from the Institutional Animal Care and Use Committee (IACUC)? ☐ Yes ☒ No

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Attach the final copy of thesis/dissertation for committee review. While formatting changes may be requested by the Graduate School, the content of the attached document should be final.

**Approvals:**Committee Chair Name Bradley MarkleSignature  Date Signed 11/11/2024Committee Member Name Theodore ScambosSignature  Date Signed 11/11/2024

The final copy of this thesis has been examined by the signatories, and we find that both the content and the form meet acceptable presentation standards of scholarly work in the above-mentioned discipline.