

## Kristin M. Schild

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### Education

- 2017 **Ph.D.** Earth Sciences. Department of Earth Sciences, Dartmouth College  
Thesis: *The influence of Subglacial Hydrology on Arctic Tidewater Glaciers and Fjords*  
(Advisor: Dr. Robert L. Hawley)
- 2011 **M.S.** Quaternary and Climate Studies. Climate Change institute, University of Maine  
Thesis: *Terminus Changes of Tidewater Outlet Glaciers in Greenland: Environmental Controls and Links to Glacial Earthquakes* (Advisor: Dr. Gordon S. Hamilton, deceased)
- 2007 **B.A.** Psychology, with Physics and Math minors (University Honors). Southern Methodist University

### Appointments

- 2018-present **Research Assistant Professor**, University of Maine, Climate Change Institute and School of Earth and Climate Sciences
- 2017-2019 **Postdoctoral Research Scientist**, NSF, University of Oregon, “Quantifying Iceberg Motion and Melt in Greenland’s Glacial Fjords”
- 2016-2017 **New Hampshire Space Grant Student**, Dartmouth College
- 2014-2015 **GK-12 Fellow**, NSF, Dartmouth College
- 2012-2014 **IGERT Fellow**, NSF, Dartmouth College, “Polar Environmental Change”

### Five Recent Publications

How, P., K.M. Schild, D. I. Benn, R. Noormets, N. Kirchner, A. Luckman, D. Vallot,, N.R.J. Hulton, and C. Borstad. (2019) Calving controlled by melt-undercutting: detailed calving styles revealed through time-lapse observations. *Ann. Glaciol.* doi: 10.1017/aog.2018.28

Schild, K.M., C.E. Renshaw, D.I. Benn, A. Luckman, R.L. Hawley, P. How, L. Trusel, F. R. Cottier, A. Pramanik, and N. R. J. Hulton (2018), Glacier calving rates due to subglacial discharge, fjord circulation, and free convection. *J. Geophys. Res.*, 123. doi:10.1029/2017JF004520.

Andrews, L.C., M.J. Hoffman, T.A. Neumann, G.A. Catania, M.P. Luthi, R.L. Hawley, K.M. Schild, C. Ryser, and B.F. Morriss (2018), Seasonal evolution of the subglacial hydrologic system modified by supraglacial lake drainage in western Greenland. *J. Geophys. Res.*, 123, 1479-1496. doi: 10.1029/2017JF004585.

Schild, K.M., R.L. Hawley, J.W. Chipman, and D.I. Benn (2017), Quantifying suspended sediment concentration in subglacial sediment plumes at two Svalbard tidewater glaciers using Landsat-8 and in situ measurements. *Int. J. Remote Sens.*, 38(23), 6865-6881. doi:10.1080/01431161.2017.1365388.

Schild, K.M., R.L. Hawley and B.F. Morriss, (2016), Subglacial Hydrology at Rink Isbræ, West Greenland, inferred from sediment plume emergence. *Ann. Glaciol.*, 57(72). doi: 10.1017/aog.2016.1.

### Funding

Awards total \$119,838 including research proposals, conference funding, competitive fellowships, and scholarships.

### Field Experience

Approximately 21 months in glaciated regions on 23 different expeditions from 2008-2019.