

Luke D. Trusel

Assistant Professor
Department of Geology
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Education

Ph.D. in Geography, Clark University, 2014.

Dissertation: Quantifying Antarctic ice sheet surface melt: Present dynamics and future trajectories.

Advisor: Dr. Karen Frey

M.S. in Geology, Northern Illinois University, 2009.

Thesis: Inferences into glacial marine sedimentary dynamics, processes, and environments from multibeam sonar records in Alaskan fjords. *Advisor:* Dr. Ross Powell

B.S. in Geology, University of Massachusetts – Amherst, 2006.

Honors thesis: Fjord sedimentation associated with a submarine meltwater jet and plume discharging from Kronebreen glacier, Kongsfjord, Svalbard. *Advisor:* Dr. Julie Brigham-Grette

Professional Experience

Rowan University

Assistant Professor, Department of Geology, School of Earth & Environment (09/2016–Present)

Woods Hole Oceanographic Institution

Postdoctoral Investigator, Department of Physical Oceanography (06/2016–08/2016)

Doherty Postdoctoral Scholar, Department of Geology & Geophysics (12/2014–05/2016)

Clark University

NASA Earth and Space Science Fellow (2012–2014)

Instructor, Graduate School of Geography (Fall 2014)

Research Assistant, Graduate School of Geography (2010–2012)

Teaching Assistant, Graduate School of Geography (2009–2010)

Northern Illinois University

Research Assistant, Geology and Environmental Geosciences (2006–2009)

Research Synopsis

I investigate the ice sheet-climate system by integrating observations, ice core proxy records, and climate models. I seek to situate ongoing cryospheric change within a temporal framework linking the past and the future, while elucidating connections between the polar regions and the broader Earth system.

Peer-Reviewed Publications

- Schild, K. M., C. E. Renshaw, D. I. Benn, A. Luckman, R. L. Hawley, P. How, **L. D. Trusel**, F. R. Cottier, A. Pramanik, and N. R. J. Hulton (2018), Glacier Calving Rates due to Subglacial Discharge, Fjord Circulation, and Free Convection. *Journal of Geophysical Research: Earth Surface*. doi:[10.1029/2017JF004520](https://doi.org/10.1029/2017JF004520).

11. van Wessem, J. M., W. J. van de Berg, B. P. Y. Noël, E. van Meijgaard, G. Birnbaum, C. L. Jacobs, K. Krüger, J. T. M. Lenaerts, S. Lhermitte, S. R. M. Ligtenberg, B. Medley, C. H. Reijmer, K. van Tricht, **L. D. Trusel**, L. H. van Ulft, B. Wouters, J. Wuite, and M. R. van den Broeke (2018). Modelling the climate and surface mass balance of polar ice sheets using RACMO2 - Part 2: Antarctica (1979-2016). *The Cryosphere*, 12(4), 1479-1498. doi:[10.5194/tc-12-1479-2018](https://doi.org/10.5194/tc-12-1479-2018).
10. Lenaerts, J. T. M., S. R. M. Ligtenberg, B. Medley, W. J. van de Berg, H. Konrad, J. P. Nicolas, J. M. van Wessem, **L. D. Trusel**, R. Mulvaney, R. J. Tuckwell, A. E. Hogg, E. R. Thomas (2017), Climate and surface mass balance of coastal West Antarctica resolved by regional climate modelling, *Annals of Glaciology*, doi: [10.1017/aog.2017.42](https://doi.org/10.1017/aog.2017.42).
9. Scambos, T. A., R. E. Bell, R. B. Alley, S. Anandakrishnan, D. H. Bromwich, K. Brunt, K. Christianson, T. Creyts, S. Das, R. DeConto, P. Dutrieux, H. A. Fricker, D. Holland, J. MacGregor, B. Medley, J. P. Nicolas, D. Pollard, M. R. Siegfried, A. M. Smith, E. J. Steig, **L. D. Trusel**, D. G. Vaughan, and P. Yager (2017), How much, how fast?: A science review and outlook for research on the instability of Antarctica's Thwaites Glacier in the 21st century, *Global and Planetary Change*, 53, 16-34, doi:[10.1016/j.gloplacha.2017.04.008](https://doi.org/10.1016/j.gloplacha.2017.04.008).
8. **Trusel, L. D.**, K. E. Frey, S. B. Das, K. B. Karnauskas, P. Kuipers Munneke, E. van Meijgaard, and M. R. van den Broeke (2015), Divergent trajectories of Antarctic surface melt under two twenty-first-century climate scenarios, *Nature Geoscience*, 8, (12), 927-932 doi:[10.1038/ngeo2563](https://doi.org/10.1038/ngeo2563). **(Cover Feature)**
7. Polashenski, C., D. K. Perovich, K. E., Frey, L. W. Cooper, C. I. Logvinova, R. Dadic, B. Light., H. P. Kelly, **L. D. Trusel**, and M. Webster (2015), Physical and Morphological Properties of Sea Ice in the Chukchi and Beaufort Seas during the 2010 and 2011 NASA ICESCAPE Missions, *Deep-Sea Research II*, doi:[10.1016/j.dsr2.2015.04.006](https://doi.org/10.1016/j.dsr2.2015.04.006).
6. **Trusel, L. D.**, K. E. Frey, S. B. Das, P. Kuipers Munneke, and M. R. van den Broeke (2013), Satellite-based estimates of Antarctic surface meltwater fluxes, *Geophysical Research Letters*, 40, doi:[10.1002/2013GL058138](https://doi.org/10.1002/2013GL058138).
5. Abram, N. J., R. Mulvaney, E. W. Wolff, J. Triest, S. Kipfstuhl, **L. D. Trusel**, F. Vimeux, L. Fleet, and C. Arrowsmith (2013), Acceleration of snow melt in an Antarctic Peninsula ice core during the twentieth century, *Nature Geoscience*, 6, (5), 404-411, doi:[10.1038/ngeo1787](https://doi.org/10.1038/ngeo1787).
4. **Trusel, L. D.**, K. E. Frey, and S. B. Das (2012), Antarctic surface melting dynamics: Enhanced perspectives from radar scatterometer data, *Journal of Geophysical Research*, 117, F02023, doi:[10.1029/2011JF002126](https://doi.org/10.1029/2011JF002126).
3. Cochrane, G. R., **L. Trusel**, J. Harney, and L. Etherington (2012), Habitats and Benthos of an Evolving Fjord, Glacier Bay, Alaska, in *Seafloor Geomorphology as Benthic Habitat*, pp. 299-308, Elsevier, London. doi:[10.1016/B978-0-12-385140-6.00018-9](https://doi.org/10.1016/B978-0-12-385140-6.00018-9).
2. **Trusel, L. D.**, G. R. Cochrane, L. L. Etherington, R. D. Powell, and L. A. Mayer (2010), Marine benthic habitat mapping of Muir Inlet, Glacier Bay National Park and Preserve, Alaska, *U.S. Geological Survey Scientific Investigations Map 3122*, U.S. Geological Survey, Washington D.C.
1. **Trusel, L. D.**, R. D. Powell, R. M. Cumpston, and J. Brigham-Grette (2010), Modern glacial marine processes and potential future behaviour of Kronebreen and Kongsvegen polythermal tidewater glaciers, Kongsfjorden, Svalbard, *Geological Society, London, Special Publications*, 344(1), 89-102, doi:[10.1144/SP344.9](https://doi.org/10.1144/SP344.9).

Published Datasets:

1. **Trusel, L. D.** (2018), Mean Antarctic surface meltwater production over 1999-2009 derived from QuikSCAT satellite observations, version 1.0, [online] Quantarctica v3, Norwegian Polar Institute, Tromsø, Norway.

Grants and Fellowships

Awarded: NASA Cryosphere Science Program (01/2019 – 12/2021) (\$421,478)

A Coupled Antarctic Cryosphere System: Linking Ice Sheet Surface Mass Balance Processes and Ocean Surface Variability Across Coastal Antarctica

With: L. Trusel (PI, Rowan Univ.), J. Lenaerts (co-I, Univ. Colorado), A. Petty (co-I, Univ. Maryland).

Awarded: NSF Antarctic Glaciology Program (08/2017–08/2019) (\$296,381)

Collaborative Research: Water on the Antarctic Ice Sheet: Quantifying surface melt and mapping supraglacial lakes

With: L. Trusel (PI, Rowan Univ.), A. Pope (co-PI, Univ. Colorado).

Awarded: NSF Antarctic Glaciology Program (07/2017 – 06/2018) (\$40,076)

Workshop on Antarctic Surface Hydrology and Future Ice-shelf Stability

With: J. Kingslake (PI, Columbia Univ.), L. Trusel (co-PI, Rowan Univ.), M. Tedesco (co-PI, LDEO).

Declined: NASA Cryosphere Science Program (2016–2018) (\$399,883)

Constraining the Intensification, Fate, and Drivers of Greenland Surface Melting

With: L. Trusel (sole PI), and S. Das (Co-I, Woods Hole Oceanographic Institution)

Overall rating: 4.5/5 (Excellent/Very Good)

Awarded: Doherty Postdoctoral Scholarship (2014–2016), Woods Hole Oceanographic Institution (~\$90,000)

Awarded: NASA Earth and Space Science Fellowship (09/2012 – 12/2014) (\$90,000)

Antarctic surface melting: Intensity, climatology, and driving mechanisms

With: L. Trusel (PI), and K. Frey (co-PI, Clark Univ.).

Honors and Awards

Pruser Dissertation Enhancement Award (2012), Clark University, School of Geography

Marion I. Wright Travel Grant (2012), Clark University, School of Geography

NASA Group Achievement Award (2010), *contributions to ICESCAPE Program*

US Coast Guard Arctic Service Medal (2010), *21+ days of duty north of the Arctic Circle*

NSF Antarctica Service Medal (2010), *15+ days of duty south of the Antarctic Circle*

Outstanding Graduate Student Award (2009–2010), Northern Illinois University

Goldich Award (2008, 2009), Northern Illinois University, *Geology travel award*

Excellence in Undergraduate Research Award (2006), University of Massachusetts

Teaching Experience

Rowan University:

Paleoclimatology (GEOL 01.230) [initial offering spring 2019]

Earth in Transition: The Science of Global Climate Change (GEOL 01.131)

Physical Geology (GEOL 01.101)

Clark University:

The Climate System and Global Environmental Change (Clark University), Instructor, Fall 2014
Weather and Climate (Clark University), Teaching Assistant, Spring 2010
Introduction to Hydrology (Clark University), Teaching Assistant, Fall 2009

Guest lectures:

Climate Variability and Diagnostics (MIT/WHOI Joint PhD Program), Spring 2016
Environmental Information Systems (Clark University), Spring 2013
Advanced Remote Sensing (Clark University), Spring 2011, Spring 2012

Field:

Cape Cod Glacial Geology, Organized and Led Field Trip, NE Glaciology Meeting, April 2015

Polar Fieldwork

Disko Bay/West Greenland Ice Coring (Apr. 2015–May 2015)
Amundsen Coast Mass Balance Project (I-157), West Antarctic Ice Sheet (Dec. 2010–Jan. 2011)
NASA Project ICESCAPE, USCGC Healy (HLY1001), Chukchi Sea, Arctic Ocean (Jun. 2010–Jul. 2010)
ANDRILL, MacKay Sea Valley Project, Granite Harbor Antarctica (G-049) (Oct. 2007–Nov. 2007)
Svalbard REU, Kongsfjorden, Spitsbergen (Jun. 2005–Jul. 2005)

Additional Training

Community Earth System Model (CESM) Tutorial, National Center for Atmospheric Research, 2016
Wilderness First Aid Certification, National Outdoor Leadership School (NOLS), 2015
Seminar in College Teaching, Higher Education Consortium of Central Massachusetts, 2014

Conference & Meeting Research Presentations

****Undergraduate student author*

39. **Trusel, L. D.**, A. Pope, M. Moussavi, S. B. Das, L. A. Stevens (2018), Water on the Antarctic Ice Sheet: Quantifying surface melt via radar satellites, presented at SCAR/IASC POLAR 2018 Meeting, Davos, Switzerland, 15–26 Jun.
38. **L. D. Trusel**, J. Kingslake, A. F. Banwell, R. E. Bell, A. Boghosian, J. Spergel, M. Tedesco, K. Tinto (2018), Future research directions in Antarctic surface hydrology & ice-shelf stability, presented at SCAR/IASC POLAR 2018 Meeting, Davos, Switzerland, 15–26 Jun.
37. A. Pope, M. Moussavi, **L. D. Trusel** (2018), Water on the Antarctic Ice Sheet: mapping supraglacial lake depth and volume, presented at SCAR/IASC POLAR 2018 Meeting, Davos, Switzerland, 15–26 Jun.
36. Cioffi, L. T.***, and **L. D. Trusel** (2018), Predicting the next big 'berg: Assessing rift propagation on Larsen D ice shelf, Antarctica, presented at 2018 Rowan University STEM Symposium, 20 April.

35. Kingslake, J., R. E. Bell, A. F. Banwell, A. Boghosian, J. Spergel, and **L. D. Trusel** (2017), Challenges for understanding Antarctic surface hydrology and ice-shelf stability, presented at 2017 Fall Meeting, AGU, New Orleans, LA, 11-15 Dec.
34. **Trusel, L. D.** (2017), Antarctic surface melt in a warming climate, presented at 2017 CESM Workshop (Land Ice Working Group), Boulder, Colorado, 19-22 Jun. **(Invited)**
33. **Trusel, L. D.**, S. B. Das, M. B. Osman, M. J. Evans, B. E. Smith, J. McConnell, B. Noel, M. R. van den Broeke (2017), Rise in central west Greenland surface melt unprecedented over the last three centuries, Abstract EGU2017-10789 presented at 2017 EGU General Assembly, Vienna, Austria, 23-28 Apr.
32. Das, S. B., M. B. Osman, **L. D. Trusel**, J. R. McConnell, B. E. Smith, M. J. Evans, K. E. Frey, M. Arienzo, N. Chellman (2017), Towards multi-decadal to multi-millennial ice core records from coastal west Greenland ice caps, Abstract EGU2017-11372 presented at 2017 EGU General Assembly, Vienna, Austria, 23-28 Apr.
31. Osman, M. B., S. B. Das, **L. D. Trusel**, M. J. Evans, J. McConnell (2017), North Atlantic sea-surface variability reflected in an array of Greenlandic methanesulfonic acid (MSA) records, Abstract EGU2017-11437 presented at 2017 EGU General Assembly, Vienna, Austria, 23-28 Apr.
30. **Trusel, L. D.**, S. B. Das, M. B. Osman, M. J. Evans, B. E. Smith, J. McConnell, B. Noel, M. R. van den Broeke (2017), Ice core evidence of a multi-century rise in west Greenland surface melt and runoff, presented at 2017 Program for Arctic Regional Climate Assessment (PARCA) Meeting, NASA GSFC, Greenbelt, MD, 24 Jan.
29. **Trusel, L. D.**, S. B. Das, M. B. Osman, M. J. Evans, B. E. Smith, J. McConnell, B. Noel, M. R. van den Broeke (2016), Rise in central west Greenland surface melt unprecedented over the last three centuries, Abstract C54A-02 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec. **(Invited)**
28. **Trusel, L. D.**, S. B. Das, M. B. Osman, M. J. Evans, A. V. York, K. E. Frey, B. Noel, and M. R. van den Broeke (2016), Variability and rise in west Greenland surface melting over the last several decades, presented at 2016 IPICS Meeting, Hobart, Australia, 7-11 Mar.
27. **Trusel, L. D.**, S. B. Das, B. E. Smith, P. Kuipers Munneke, M. J. Evans, K. E. Frey, M. B. Osman, and A. V. York (2015b), Investigating a newly discovered firn aquifer on Disko Ice Cap, west Greenland: Insights from ground observations, remote sensing, and modeling, Abstract C51B-0704 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec.
26. Medley, B., S. B. Das, **L. D. Trusel**, E. J. Steig, J. Lenaerts, H. Conway, J. McConnell, M. R. van den Broeke, A. Criscitiello, D. H. Bromwich, J. P. Nichols, and I. Joughin (2015), Several firn core records suggest relatively stable accumulation rates during the past two centuries over the Amundsen Sea sector of West Antarctica, Abstract C53A-0760 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec.
25. **Trusel, L. D.**, K. E. Frey, S. B. Das, P. Kuipers Munneke, E. van Meijgaard, and M. R. van den Broeke (2015), Melt in context: Exploring past, present, and potential future trajectories of Antarctic ice shelf surface melting, presented at 2015 WAIS Workshop, Loveland, Colorado, 16-19 Sept.
24. **Trusel, L. D.**, K. E. Frey, S. B. Das, P. Kuipers Munneke, and E. van Meijgaard (2014), Divergent trajectories of Antarctic ice shelf surface melt under 21st century climate scenarios, Abstract C12B-08 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.
23. Das, S. B., M. J. Evans, K. E. Frey, M. Osman, B. E. Smith, L. J. Stevens, **L. D. Trusel**, A. V. York, and M. Bingham (2014), Using Coastal Ice Cap Records to Investigate Maritime Climate and Ice Sheet Processes in West Greenland, Abstract C13B-0434 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.

22. York, A. V., K. E. Frey, S. B. Das, M. J. Evans, A. S. Gardner, B. E. Smith, and **L. D. Trusel** (2014), Assessing the influence of sea ice conditions on outlet glacier retreat in Disko and Uummannaq Bays, West Greenland, Abstract C13B-0443 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15–19 Dec.
21. **Trusel, L. D.**, K. E. Frey, S. B. Das, P. Kuipers Munneke, and M. R. van den Broeke (2013), Antarctic surface melt in the cryosphere-climate system: Perspectives from microwave remote sensing and regional climate modeling, presented at NESTVAL Conference, Worcester, Massachusetts, 19 October.
20. **Trusel, L. D.**, K. E. Frey, P. Kuipers Munneke, M. R. van den Broeke, and S. B. Das (2013), High resolution remotely sensed estimates of surface meltwater production: implications for cryosphere-climate linkages, presented at Davos Atmosphere and Cryosphere Assembly 2013 (DACA-13), Davos, Switzerland, 8–12 July. **(Invited)**
19. Abram, N. J., R. Mulvaney, E. W. Wolfe, J. Triest, S. Kipfstuhl, **L. D. Trusel**, F. Vimeux, L. Fleet, and C. Arrowsmith (2013), Ice melt in response to warming of the Antarctic Peninsula during the last millennium, presented at PAGES Open Science Meeting, Goa, India, 13–16 Feb.
18. **Trusel, L. D.**, P. Kuipers Munneke, K. E. Frey, M. R. van den Broeke, and S. B. Das (2012), Antarctic QuikSCAT-RACMO surface melt comparisons: Evaluation of the microwave response to snowpack liquid water, Abstract C21C-0620 presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 3–7 Dec.
17. Das, S. B., I. Joughin, A. S. Criscitiello, B. Medley, H. Conway, M. J. Evans, K. E. Frey, J. McConnell, E. Steig, and **L. D. Trusel** (2012), Ice core records of 20th century climate change along the Amundsen Sea Embayment, West Antarctica, presented at IPICS Open Science Conference 2012, Cote d’Azur, France, 1–5 Oct.
16. **Trusel, L. D.**, K. E. Frey, and S. B. Das (2011), Antarctic surface and subsurface melting dynamics: Enhanced perspectives from radar scatterometer data, Abstract C31A-0596 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5–9 Dec.
15. **Trusel, L. D.**, K. E. Frey, and S. B. Das (2011), Quantifying the extent, duration, and intensity of surface melting across the Antarctic ice sheet, presented at 2011 Midwest Glaciological Meeting, Dartmouth College, Hanover, NH, 12–13 May.
14. **Trusel, L. D.**, K.E. Frey, and S.B. Das (2011), Quantifying the extent, duration, and intensity of surface melting across the Antarctic Ice Sheet, 1999–2009, presented at AAG Annual Conference, Seattle, WA, 16 April.
13. Willems, B. A., D. E. Lawson, **L. D. Trusel**, M. Davis, J. A. Goff, and S. P. Gulick (2010), Diversion of sediment from Russell Fiord by ice-marginal and marine processes, Hubbard Glacier: implications for calculating sediment yield and denudation rates, Abstract C21B-0535 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13–17 Dec.
12. Frey, K.E., C. Wood, **L. D. Trusel**, L. W. Cooper, and J. M. Grebmeier (2010), Optical properties of ocean waters beneath melt-season first-year sea ice in the Chukchi Sea, Abstract C43E-0585 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13–17 Dec.
11. Polashenski, C., D. K. Perovich, K. Claffey, K. E. Frey, **L. D. Trusel**, and C. Wood (2010), The fresh meltwater in the sea ice system, Abstract C52B-03 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13–17 Dec.
10. **Trusel, L. D.**, (2010), Antarctic surface melting and ice layer formation dynamics (1999–2009), presented at 2010 Midwest Glaciological Meeting, WHOI, Woods Hole, MA, 15–16 April.

9. Willems, B.A., R. D. Powell, E. A. Cowan, S. P. Gulick, and **L. D. Trusel** (2009), Inferring Glacial Dynamics from Temperate Glacimarine Grounding-Line Deposits. *Eos Trans. AGU*, 90 (52), Fall Meet. Suppl., Abstract C23C-0505.
8. **Trusel, L. D.**, R. M. Cumpston, R. D. Powell, and J. Brigham-Grette (2009), Modern Glacimarine Processes of Kronebreen and Kongsvegen Polythermal Tidewater Glaciers, Kongsfjorden, Svalbard. Abstracts for the 39th Annual Arctic Workshop, Lewiston, ME.
7. **Trusel, L. D.**, B. A. Willems, R. D. Powell, and L. A. Mayer (2009), Inferences Into Temperate Fjord Deglaciation: Evidence from Glacial and Paraglacial Submarine Landforms in Southeast Alaska. *Geological Society of America Abstracts with Programs*, 41 (4), p. 71.
6. Willems, B.A., R. D. Powell, E. A. Cowan, J. Jaeger, and **L. D. Trusel** (2009), A High-Resolution Record of Advance/Retreat Phase Glacimarine Sediments: Implications in Reconstructing Glacial Dynamics. *Geological Society of America Abstracts with Programs*, 41 (4), p. 71.
5. **Trusel, L. D.**, B. A. Willems, R. D. Powell, and L. A. Mayer (2008), Quantification of Glacimarine Sediment Yields using Multibeam Sonar in Alaskan Fjords. *Eos Trans. AGU*, 89 (53), Fall Meet. Suppl., Abstract C11B-0508.
4. **Trusel, L. D.**, B. A. Willems, R. D. Powell, and L. A. Mayer (2008), Temperate glacimarine sediment yields during glacial advance, 33rd International Geological Congress, Oslo, Norway.
3. **Trusel, L. D.**, R. M. Cumpston, J. Brigham-Grette, and R. D. Powell (2006), Fjord Sedimentation Associated with a Submarine Meltwater Jet and Plume Discharging from Kronebreen Glacier, Kongsfjorden, Svalbard, Abstracts for the 36th Annual Arctic Workshop, Boulder, CO.
2. Cumpston, R.M., **L. D. Trusel**, R. D. Powell, and J. Brigham-Grette (2006), Ice-Marginal Delta Formation and Sedimentary Processes of Kongsvegen Glacier in Kongsfjorden, Svalbard, Norway, Abstracts for the 36th Annual Arctic Workshop, Boulder, CO.
1. Powell, R. D., J. Brigham-Grette, R. Cumpston, **L. Trusel**, A. Werner, S. Roof, and M. Retelle (2005), The Svalbard REU program: A High-Latitude Undergraduate Research Program in Glacial, Fluvial and Marine Processes Relevant to Arctic Climate Change, *Eos Trans. AGU*, 86(52), Fall Meet. Suppl., Abstract ED31B-1206.

Professional Service

Workshop on Antarctic Surface Hydrology and Future Ice Shelf Stability, Columbia University, Lamont Doherty Earth Observatory, February 21-23, 2018 (co-PI on NSF grant; co-Lead organizer)

Manuscript Reviewer: *Earth Surface Processes and Landforms*, *Geophysical Research Letters*, *Journal of Geophysical Research – Atmospheres*, *Journal of Geophysical Research – Oceans*, *Journal of Glaciology*, *Nature Communications*, *Polar Research*, *Quarterly Journal of the Royal Meteorological Society*, *The Cryosphere*

Proposal Review Panelist: NASA (Cryospheric Sciences Program)

Ad-hoc Proposal Reviewer: National Science Foundation (Arctic Natural Sciences; Antarctic Earth Sciences), INACH (Chilean Antarctic Institute)

Search Committee Member, Rowan University:

Environmental Science, Assistant Professor (2016–2017)

Geology, Assistant Professor (2016–2017)

WHOI Postdoctoral Association, Vice President and Geology & Geophysics Dept. Rep. (2015–2016)

WHOI Climate and Paleo Lunch Seminar, Organizer (Dec. 2014–2016)

Meeting Co-Organizer, New England Glaciology Meeting, WHOI (March 2015)

Invited Seminars & Colloquia

- Rutgers University, Piscataway, NJ, Department of Geography (Nov. 2017)
- Temple University, Philadelphia, PA, Dept. of Earth and Environmental Sciences (Nov. 2017)
- University at Buffalo, Buffalo, NY, Dept. of Geology (Oct. 2017)
- NASA Goddard Space Flight Center, Cryospheric Sciences Laboratory, Greenbelt, MD (Sep. 2017)
- CLIVAR Process Study and Model Improvement Panel, Woods Hole, MA (Jun. 2016)
- University of Massachusetts, Amherst, MA, Department of Geosciences (Apr. 2016)
- Rowan University, Glassboro, NJ, School of Earth and Environment (Mar. 2016)
- Worcester State University, Worcester, MA, Department of Earth, Environment, and Physics (Nov. 2014)
- Woods Hole Oceanographic Institution, Woods Hole, MA (Jan. 2014)
- Institute for Marine and Atmospheric Research, Utrecht University, Netherlands (Jul. 2013)
- National Oceanic and Atmospheric Administration, Juneau, AK (Jan. 2009)

Select Media & Outreach

Antarctica:

- E. Holthaus. *A trillion-ton iceberg just broke off Antarctica*. grist, July 2017.
URL: <http://grist.org/science/a-trillion-ton-iceberg-just-broke-off-antarctica/>
- W. Williams. *Antarctica has a network of meltwater rivers that is much larger than previously thought*. Christian Science Monitor, April 2017. URL: [http://www.csmonitor.com/Environment/2017/\[... \]](http://www.csmonitor.com/Environment/2017/[...])
- The Takeaway with John Hockenberry. *Antarctica: The Elephant in The Room at COP21*. Public Radio Intl., November 2015. URL: <http://thetakeaway.org/story/antarctica-elephant-room-cop21/>
- C. Harvey. *Why scientists are so worried about the ice shelves of Antarctica*. The Washington Post, October 2015. URL: <http://wpo.st/QxCk0>
- E. Holthaus. *Yes, Antarctic Ice Is Melting, But There's a Bright Side*. Slate, October 2015.
URL: <http://slate.me/1VZLdF5>
- K. Bellware. *Antarctic Ice Melt Could Get Worse, But Humans Can Slow It Down*. Huffington Post, October 2015. URL: <http://huff.to/1Pgi5F2>
- Checkpoint. *Research predicts ice melt in Antarctica could double by 2050*. Radio New Zealand, October 2015. URL: <http://www.radionz.co.nz/audio/player/201774485>

Greenland:

- M. Lucibella. *Empowering Educators at the School of Ice*. The Antarctic Sun, July 2015.
URL: <http://antarcticsun.usap.gov/science/contenthandler.cfm?id=4169>
- L. Trusel. *Digging the Disko: Developing ice core climate records around Disko Bay, west Greenland*. In-Depth, Spring 2015. URL: <http://icecores.org/indepth/2015/spring/digging-the-disko.shtml>
- L. Trusel. *Disko Bay Ice Coring Project*. Multiple posts on Milton Academy blog during Greenland fieldwork, Spring 2015. URL: <http://www.miltonacademy.info/science/>

Luke D. Trusel

Professional Affiliations

American Geophysical Union

European Geosciences Union

International Glaciological Society

Sigma Xi

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