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EDUCATION	<i>Ph.D.</i> , Atmospheric Science, University of Washington, Seattle, WA <i>A.B.</i> , Physics, Harvard University, Cambridge, MA	2015 2005
EMPLOYMENT	Assistant Professor, Oregon State University Postdoctoral Scholar, Scripps Institution of Oceanography Graduate Research Assistant, University of Washington Commissioned Officer, US Air Force	2018 - present 2015 - 2017 2009 - 2015 2005 - 2009
SUBMITTED MANUSCRIPTS	<p>[18] <b>Huston, A., N. Siler</b>, G. Roe, E. Pettit, and N. Steiger, 2020: Understanding drivers of glacier length variability over the last millennium. <i>The Cryosphere</i>.</p> <p>[17] <b>Siler, N.</b>, A. Bailey, G. Roe, C. Buizert, B. Markle, and D. Noone, 2020: The coupling of temperature, hydrology, and water isotopes in the large-scale, long-term climate. <i>J. Climate</i>.</p> <p>[16] Burls, N., C. D. Bradshaw, ..., <b>N. Siler</b>, ..., 2020: Simulating Miocene warmth: insights from an opportunistic Multi-Model ensemble (MioMIP1). <i>Paleoceanography and Paleoclimatology</i>.</p> <p>[15] Inglis, G., F. Bragg, ..., <b>N. Siler</b>, ..., 2020: Global mean surface temperature and climate sensitivity of the EECO, PETM and latest Paleocene. <i>Climate of the Past</i>. <a href="https://doi.org/10.5194/cp-2019-167">https://doi.org/10.5194/cp-2019-167</a></p>	
PUBLICATIONS	<p>[14] Payne, A., M. Demory, ..., <b>N. Siler</b>, ..., 2020: Responses and impacts of atmospheric rivers to climate change. <i>Nature Reviews Earth &amp; Environment</i>. <a href="https://doi.org/10.1038/s43017-020-0030-5">https://doi.org/10.1038/s43017-020-0030-5</a></p> <p>[13] Armour, K.C., <b>N. Siler</b>, A. Donohoe and G.H. Roe, 2019: Meridional atmospheric heat transport constrained by energetics and mediated by large-scale diffusion. <i>J. Climate</i>. <a href="https://doi.org/10.1175/JCLI-D-18-0563.1">https://doi.org/10.1175/JCLI-D-18-0563.1</a></p> <p>[12] <b>Siler, N.</b>, G. Roe, K. Armour, and N. Feldl, 2019: Revisiting the surface-energy-flux perspective on the sensitivity of global precipitation to climate change. <i>Climate Dynamics</i>. <a href="https://doi.org/10.1007/s00382-018-4359-0">https://doi.org/10.1007/s00382-018-4359-0</a></p> <p>[11] <b>Siler, N.</b>, C. Proistosescu, and S. Po-Chedley, 2019: Natural variability has slowed the decline in western-US snowpack since the 1980s. <i>Geophys. Res. Lett.</i>. <a href="https://doi.org/10.1029/2018GL081080">https://doi.org/10.1029/2018GL081080</a></p> <p>[10] Bonan, D. B., K. C. Armour, G. H. Roe, <b>N. Siler</b>, N. Feldl, 2018: Sources of uncertainty in the meridional pattern of climate change. <i>Geophys. Res. Lett.</i>. <a href="https://doi.org/10.1029/2018GL079429">https://doi.org/10.1029/2018GL079429</a></p> <p>[9] <b>Siler, N.</b>, K. Armour, and G. Roe, 2018: Insights into the zonal-mean response of the hydrologic cycle to global warming from a diffusive energy balance model. <i>J.</i></p>	

*Climate*. <https://doi.org/10.1175/JCLI-D-18-0081.1>

[8] Amaya, D., **N. Siler**, A. Miller, and S.P. Xie, 2018: The interplay of internal and forced modes of Hadley cell width variability. *Climate Dynamics*. <https://doi.org/10.1007/s00382-017-3921-5>

[7] **Siler, N.**, S. Po-Chedley, and C. Bretherton, 2018: Variability in modeled cloud feedback tied to differences in the climatological spatial pattern of clouds. *Climate Dynamics*. <https://doi.org/10.1007/s00382-017-3673-2>

[6] **Siler, N.**, Y. Kosaka, S.P. Xie, and X. Li, 2017: Tropical ocean contributions to California's surprisingly dry El Niño of 2015-16. *J. Climate*. <https://doi.org/10.1175/JCLI-D-17-0177.1>

[5] **Siler, N.** and D. Durran, 2016: What causes weak orographic rain shadows? Insights from case studies in the Cascades and idealized simulations. *J. Atmos. Sci.*. <https://doi.org/10.1175/JAS-D-15-0371.1>

[4] Christian, J., **N. Siler**, G. Roe, and M. Koutnik, 2016: Identifying dynamically induced variability in glacier mass balance records *J. Climate*. <https://doi.org/10.1175/JCLI-D-16-0128.1>

[3] **Siler, N.** and D. Durran, 2015: Assessing the influence of the tropopause on mountain waves and orographic precipitation using linear theory and numerical simulations. *J. Atm. Sci.*. <https://doi.org/10.1175/JAS-D-14-0200.1>

[2] **Siler, N.** and G. Roe, 2014: How will orographic precipitation respond to surface warming? An idealized thermodynamic perspective. *Geophys. Res. Lett.*. <https://doi.org/10.1002/2013GL059095>

[1] **Siler, N.**, G. Roe, and D. Durran, 2013: On the dynamical causes of variability in the rain-shadow effect: a case study of the Washington Cascades. *J. Hydrometeorol.*. <https://doi.org/10.1175/JHM-D-12-045.1>

SELECTED  
PRESENTATIONS

*Oral Presentation*, AGU Fall Meeting, 2019: Energetic and thermodynamic constraints on the meridional distribution of water isotopes.

*Oral Presentation*, AGU Fall Meeting, 2018: Insights into the zonal-mean response of the hydrologic cycle to global warming from a diffusive energy balance model.

*Invited Lecture*, ASP Summer Colloquium, National Center for Atmospheric Research, Boulder, CO, June 2017. The interaction of precipitation with orography.

*Invited Seminar*, College of Earth, Ocean, and Atmospheric Sciences, Oregon State University, Corvallis, OR, April 2017.

*Invited Seminar*, Department of Earth and Environmental Sciences, Columbia University, New York, NY, February 2017.

*Invited Seminar*, Society, Water, and Climate, University of Utah, Salt Lake City, UT, December 2016.

*Invited Seminar*, Department of Atmospheric Sciences, University of Washington, May 2016.