

# DR. DAVID P. SCHNEIDER

Project Scientist II, National Center for Atmospheric Research

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## EDUCATION

**Ph.D.**, University of Washington, Earth and Space Sciences (2005)

**M.S.**, University of Pennsylvania, Earth and Environmental Science (2001)

**B.A.**, *cum laude*, Carleton College, Geology, Northfield, MN (1999)

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## SCIENTIFIC POSITIONS AND EXPERIENCE

**Project Scientist II** (2016-present), **Project Scientist I** (2011-2016), National Center for Atmospheric Research (NCAR), Climate and Global Dynamics Laboratory

- Lead the development of the Climate Data Guide website, which includes profiles of the strengths, limitations and applications of observational climate data sets. Under my stewardship, the website has experienced sustained growth in content and usage, reaching 30,000+ unique visitors per month.
- Conduct an externally funded research program focused on regional climate variability in Antarctica and the Southern Ocean. Extensive experience with observational data sets and climate models. Over 30 publications.
- Support other community projects, including the Data Stewardship Engineering Team that is responsible for data.ucar.edu.

**Research Scientist I**, Cooperative Institute for Research in Environmental Sciences (CIRES) and **Visiting Scientist**, NCAR, 2009-2011

- Worked on tropical-polar teleconnections, patterns of climate change in Antarctica, climate model evaluation, and water-isotope modeling.
- Conducted polar fieldwork at Summit, Greenland to install meteorological instrumentation for in-situ water isotope sampling

**Postdoctoral fellow**, NCAR, Paleoclimate group, 2007-2009

- Analyzed the coupled climate system response to prescribed volcanic eruptions in CCSM3 and assessed its implications for Arctic climate change
- Collaborated with large community of university scientists to publish two synthesis papers of Arctic and Antarctic climate in *Science* and *Nature*

**Research Associate**, CIRES, 2006-2007

- Compiled database of annually resolved, globally distributed ice core records through contact with a broad spectrum of the international ice core community
- Applied multivariate statistical analyses to quantify the covariance of water isotope ice core records in the context of large-scale climate variability

**Visiting Fellow**, Antarctic Climate and Ecosystems Cooperative Research Centre, Hobart, Tasmania, Australia, 2005-2006

- Investigated the Southern Annular Mode signal in Antarctic ice core stable isotope and geochemical records.

**Research Assistant**, University of Washington, Seattle, WA, 2001-2006

- Produced a quantitative reconstruction of Antarctic climate variability using combined information from instrumental, satellite and ice core data
- Conducted ice coring fieldwork in Antarctica

**Research Assistant**, University of Pennsylvania, Philadelphia, PA, 2000-2001

- Analyzed satellite data (infrared and passive microwave) to produce a new, continent-wide view of Antarctic temperature variations.
- Conducted ice coring fieldwork in both polar regions

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**SCIENTIFIC  
COMMUNICATION  
AND  
PROFESSIONAL  
DEVELOPMENT**

- *Climate Data Guide* recognized in National Academy report, *A National Strategy for Advancing Climate Modeling* (2012) and by *RealClimate*, *UCAR (Atmos) News*, *CLIVAR*, and other organizations.
- Participant, “Communicating Science” program sponsored by NSF and AAAS to increase skills in communication of science to the media and public (2010)
- Invited participant, “New Generation Polar Researchers Symposium,” a 7-day research and career development workshop focusing on public outreach, interdisciplinary collaborations and grant writing skills (2008)
- Completed two semester-length courses in science journalism at the University of Washington, and published five general audience magazine articles (2003-2005)
- Participant, “American Meteorological Society Summer Policy Colloquium,” a 10-day course about science policy in Washington, D.C. (2005)
- *GRL* publication on bipolar seesaw a Research Highlight in *Nature Climate Change* and *EOS* (2012)
- Arctic synthesis work featured in a highly successful NCAR press release covered by major local, national and international media (2009)
- Antarctic climate work featured on NCAR homepage, covered in major media outlets and featured in *Nature Reports Climate Change* (2008-2009)
- Participant, “Modeling of Arctic Climate, Summer School,” a two-week course in climate modeling and Arctic field studies in Alaska (2008)
- Antarctic ice core publication selected for “Editor’s Highlight” in *GRL* (2006)
- Participant, “Drupal for Web Developers” 1-day course at UCAR (2012)
- Participant, “Drupal for Content Contributors” 1-day course at UCAR (2012)

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**TECHNICAL  
SKILLS**

- Routine use of NCAR Command Language (NCL) and Matlab for graphics and data analysis
- Advanced knowledge of Drupal website content management system
- Everyday use of UNIX, Linux and Mac operating systems
- Frequently apply regression, EOF, compositing, spectral and other common statistical techniques to analysis of climate datasets and climate model output
- Familiar with HTML and CSS
- Advanced skills in PowerPoint and Adobe Illustrator for creating oral presentations and posters
- Frequently use netcdf operators to process climate model output
- Comfortable with Twitter and other social media
- Experienced with running and analyzing CESM
- Created structured metadata in ISO-19115 for CESM data sets

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Total Funding of co-PI’d or co-authored proposals: ~ \$3.5 Million (to my institution)

**EXTERNAL  
FUNDING**

- 2017, *Collaborative Research: Uncertainty in Antarctic climate change projections and the role of sea ice, clouds and ocean structure* (led proposal writing), \$268K, NSF, Office of Polar Programs.
- 2014, *Collaborative Research: Reconstruction and Understanding of Antarctic Circulation Variability and Trends since 1905* (co-author of proposal), \$330K, NSF, Office of Polar Programs.
- 2013, *An Informed Guide to Climate Data Sets with Relevance to Earth System Model Evaluation (Supplemental Funding)* (co-author of proposal), \$150K, NSF.
- 2011, *Collaborative Research: Decoding & Predicting Antarctic Surface Melt Dynamics with Observations, Regional Atmospheric Modeling and GCMS (PI)*, \$46K, NSF, Office of Polar Programs
- 2010, *Stable isotopes in water and snow: Measurements, data systems and scientific applications (PI with D. Noone)*, \$3K, University of Colorado Undergraduate Research Opportunities Program (supported students).
- 2010, *Closing the isotope hydrology at Summit: Measurements of Source Regions, Precipitation and Post-Deposition Processes (co-PI with D. Noone, K. Steffen and J. White, U Colorado)*, \$1.8M, NSF, Office of Polar Programs.
- 2009, *Applying ice cores, instrumental records and climate modeling towards a mechanistic understanding of Antarctic climate variability on interannual to multidecadal timescales (co-PI with C. Deser and Y. Okumura, NCAR)*, \$495K, NSF, Office of Polar Programs.
- 2007, *Reconstruction of global and Southern Hemisphere variability and regional connectivity from a synthesis of ice core isotope records with process modeling (co-PI with D. Noone, U Colorado)*, \$356K, NOAA Paleoclimatology Program.
- 2007, *An ice core and tree-ring based reconstruction of the Southern Annular Mode (co-PI with J. Jones, U Sheffield, UK)*, \$10K, British Research Council.
- 2005, *Developing high-resolution ice core proxies of the Southern Annular Mode (PI)*, \$10K, Scientific Committee on Antarctic Research visiting fellowship.
- 2008-2010, Numerous competitive travel grants received to present research at national and international meetings (inc. Norway, Beijing, London, Alaska)

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**SERVICE,  
MENTORING AND  
COMMITMENT TO  
DIVERSITY AND  
INCLUSION**

- Participant, UCAR/NCAR Diversity and Inclusion series (UNEION). Eight hours of interactive classroom sessions and eight hours of readings focused on four themes in the context of the scientific/academic workplace: Privilege and Identity; Gender; Race; and Bystander Intervention. (expected completion in November 2018)
- For fifteen years I have led outdoor trips for underprivileged youth through Inspiring Connections Outdoors (ICO). I am on the local Steering Committee and develop and maintain the organization's website, [www.boulderico.org](http://www.boulderico.org).
- Science Mentor for Ana Ordonez, NCAR Significant Opportunities in Atmospheric Research (SOARs) Program (program focused on preparing members of under-represented groups to pursue graduate research the atmospheric sciences), 2013
- Science mentor for Andrea Thomer, Data Curation Education in Research Centers program, 2012
- Editor, *Antarctic Science*, 2018-present. Working to increase the success rate of non-native English speakers and others from lesser-developed nations.
- Invited participant, National Academy of Sciences Antarctic Sea Ice

- workshop, (2016)
- Invited Participant, “Speed dating” for scientists and science educators at Boulder Climate Workshop sponsored by NOAA Climate Stewards (2015)
- Science mentor, RETI Summer institute for high school teachers, 2011
- NCAR Data Stewardship Engineering Team committee member, NCAR/CGD representative (2014-present)
- Invited participant in Scientific Committee on Antarctic Research (SCAR), Antarctic Climate of the 21<sup>st</sup> Century Research Program (2013-2018)
- Invited participant, WCRP Polar Climate Predictability Initiative 6 – jets and the non-zonal circulation in the Southern Hemisphere (2013-2017)
- Invited participant, WCRP Polar Climate Predictability Initiative 1 – past polar climate variations (2014-2017)
- Convener, AGU 2012 Fall Meeting session C027, *Observational Needs for Polar Climate Modeling*
- Convener, American Meteorological Society 2016 Annual Meeting, *Weather and Climate in the Polar Regions*
- Peer reviewer: *Annals of Glaciology, Antarctic Science, Area, Bulletin of the American Meteorological Society, Climate Dynamics, Deep Sea Research, Environmental Research Letters, Geophysical Research Letters, IEEE Transactions on Geoscience and Remote Sensing, Journal of Climate, Journal of Geophysical Research, Nature Communications, Nature Geoscience, Quaternary Science Reviews, Science*
- Proposal reviewer multiple times, National Science Foundation
- Panel reviewer, National Science Foundation, Office of Polar Programs, 2011
- Reviewer for NCAR Advanced Study Program candidates, 2012-2018
- Teaching assistant for several undergraduate lab courses in introductory earth sciences (2 courses at U. Washington, 2 courses at Penn and 3 courses at Carleton)
- Mentored 3 U. Colorado undergraduates with the Undergraduate Research Opportunities Program (11/2010-6/2011)

## SCIENTIFIC, PEER-REVIEWED JOURNAL PUBLICATIONS

33. Fogt, R.L., C.A. Goergens, **D.P. Schneider**, M. Garberoglio, and J.M. Jones, 2018: Seasonal Antarctic pressure variability during the 20<sup>th</sup> century from spatially complete reconstructions and CAM5 simulations., *Climate Dynamics*, in review.
32. **Schneider, D. P.**, and R. L. Fogt, 2018: Artifacts in Century-Length Atmospheric and Coupled Reanalyses Over Antarctica Due To Historical Data Availability. *Geophys. Res. Lett.*, doi: 10.1002/2017GL076226.
31. Fogt, R. L., C. A. Goergens, J. M. Jones, **D. P. Schneider**, J. P. Nicolas, D. H. Bromwich, and H. E. Dusselier, 2017: A twentieth century perspective on summer Antarctic pressure change and variability and contributions from tropical SSTs and ozone depletion. *Geophys. Res. Lett.*, doi:10.1002/2017GL075079.
30. **Schneider, D. P.**, and C. Deser, 2017: Tropically driven and externally forced patterns of Antarctic sea ice change: reconciling observed and modeled trends. *Clim. Dyn.*, doi:10.1007/s00382-017-3893-5.
29. Jones, J.M., S.T. Gille, H. Goossee, N.J. Abram, P.O. Canziani, D.J. Charman, K.R. Clem, X. Costa, C. de Lavergne, I. Eisenman, M.H. England, R.L Fogt, L.M. Frankcombe, G.J. Marshall, V. Masson-Delmotte, A.K. Morrison, A.J. Orsi, M.N. Raphael, J.A. Renwick, **D.P. Schneider**, G.R. Simpkins, E.J. Steig, B. Stenni, D. Swingendow, and T.R. Vance, 2016: Assessing recent trends in high-latitude Southern Hemisphere surface climate, *Nature Climate Change*, 6, 917-926.

28. **Schneider, D.P.** and D.A. Reusch, 2016: Antarctic and Southern Ocean surface temperatures in the context of the surface energy budget, *Journal of Climate*, 29, 1689-1716.
27. **Schneider, D.P.**, T. Fan and C. Deser, 2015: Comparing the impacts of tropical SST variability and polar stratospheric ozone loss on the Southern Ocean westerly winds, *Journal of Climate*, 28, 9350-9372.
26. Berkelhammer, M., D.C. Noone, H.C. Steen-Larsen, M. O'Neill, A. Bailey, C. Cox, **D.P. Schneider**, K. Steffen, and J.W.C. White, 2016: Surface-atmosphere decoupling limits accumulation at Summit, Greenland, *Science Advances*, 2, e1501704.
25. Mayewski, P.A., T. Bracegirdle, I. Goodwin, **D.P. Schneider**, N.A.N. Bertler, S. Birkel, A. Carleton, M.H. England, J.H. Kang, A. Khan, J. Russell, J. Turner, and I. Velicogna, 2015: Potential for Southern Hemisphere Climate Surprises, *Journal of Quaternary Science*, 30, 391-395.
24. Raphael, M.N, G.J. Marshall, J. Turner, R. Fogt, **D.P. Schneider**, D.A. Dixon, J.S. Hosking, J. Jones, and W. Hobbs, 2015: The Amundsen Sea Low: Variability, change and impact on Antarctic climate, *Bull. Amer. Met. Soc.*, 97, 111-121.
23. Fan, T., C. Deser and **D.P. Schneider**, 2014: Recent Antarctic sea ice trends in the context of Southern Ocean surface climate variations since 1950, *Geophys. Res. Lett.*, 41, 2419-2426.
22. **Schneider, D.P.**, C. Deser, J. Fasullo, and K. Trenberth, 2013: Climate Data Guide Spurs Discovery and Understanding, *Eos Trans. AGU*, 94(13), 121.
21. Steig, E.J., Q. Ding, J.W.C. White, M. Kuttel, S. B. Rupper, T.A. Neumann, P.D. Neff, A.J.E. Gallant, P.A. Mayewski, K.C. Taylor, G. Hoffmann, D.A. Dixon, S.W. Schoenemann, B.R. Markle, T.J. Fudge, **D.P. Schneider**, A.J. Schauer, R.P. Teel, B.H. Vaughn, L. Burgener, J. Williams, and E. Korotkikh, 2013: Recent climate and ice-sheet changes in West Antarctica compared with the past 2000 years, *Nature Geoscience* 6, 372-375.
20. Noone, D., Risi, C., Bailey, A., Berkelhammer, M., Brown, D. P., Buening, N., Gregory, S., Nusbaumer, J., **Schneider, D.**, Sykes, J., Vanderwende, B., Wong, J., Meillier, Y., and Wolfe, D. 2012: Determining water sources in the boundary layer from tall tower profiles of water vapor and surface water isotope ratios after a snowstorm in Colorado, *Atmos. Chem. Phys. Discuss.*, 12, 16327-16375, doi:10.5194/acpd-12-16327-2012.
19. Okumura, Y., **D.P. Schneider**, C. Deser, and R. Wilson, 2012: Decadal-interdecadal climate variability over Antarctica and linkages to the tropics: Analysis of ice core, instrumental, and tropical proxy data, *Journal of Climate*, 25, 7241-7441.
18. Landrum, L., M. Holland, **D.P. Schneider**, and M. Hunke, 2012: Antarctic sea ice climatology, variability and late 20<sup>th</sup>-Century change in CCSM4, *Journal of Climate*, 25, 4817-4838.
17. **Schneider, D.P.**, Y. Okumura and C. Deser, 2012: Observed Antarctic climate variability and tropical linkages, *Journal of Climate*, 25, 4048-4066.
16. **Schneider, D.P.**, and D.C. Noone, 2012: Is a bipolar seesaw consistent with observed Antarctic climate variability and trends?, *Geophysical Research Letters*, 39, L06704, doi:/10.1029/2011GL050826.
15. **Schneider, D.P.**, C. Deser, and Y. Okumura, 2012: An assessment and interpretation of the observed warming of West Antarctica in the austral spring, *Climate Dynamics* 38(1), 323-347, doi:10.1007/s00382-010-0985-x.
14. Zhong, Y., G. Miller, B. Otto-Bliesner, M. Holland, D. Bailey, **D.P. Schneider**, and A. Geirsdottir, 2011: Centennial-scale climate change from decadal-paced explosive volcanism: A coupled sea ice-ocean mechanism, *Climate Dynamics*, doi:10.1007/s00382-010-0967-z.
13. Kaufman, D.S., **D.P. Schneider**, N.P. McKay, C.M. Ammann, R.S. Bradley, K.R. Briffa, G.H. Miller, B.L. Otto-Bliesner, J.T. Overpeck et al., 2009: Recent warming reverses long-term Arctic cooling, *Science*, 325, 1236-1239, doi:10.1126/science.1173983.
12. **Schneider D.P.**, C.M. Ammann, B.L. Otto-Bliesner, and D.S. Kaufman, 2009: Climate response to large, high latitude and low-latitude volcanic eruptions in the Community Climate System Model, *Journal of Geophysical Research-Atmospheres*, 114, doi:10.1029/2008JD011222.
11. Steig E.J., **D.P. Schneider**, S.D. Rutherford, M.E. Mann, J.C. Comiso, and D.T. Shindell, 2009: Warming of the Antarctic ice sheet surface since the 1957 International Geophysical Year, *Nature*, 457, 459-463, doi:10.1038/nature07669.
10. Monaghan A.J., D.H. Bromwich and **D.P. Schneider**, 2008: Twentieth-century Antarctic air temperature and snowfall simulations by IPCC Climate models. *Geophysical Research Letters*, 35, L07502, doi:10.1029/2007GL032630.

9. **Schneider D.P.**, and E.J. Steig, 2008: Ice cores record significant 1940s Antarctic warmth related to tropical climate variability, *Proceedings of the National Academy of Sciences*, 105, 12154-12158, doi:10.1073/pnas.0803627105.
8. **Schneider, D.P.**, and D.C. Noone, 2007: Spatial covariance of water isotope records in a global network of ice cores spanning twentieth-century climate change, *Journal of Geophysical Research*, 112, D18105, doi:10.1029/2007JD008652.
7. **Schneider, D.P.**, E.J. Steig, T. van Ommen, D. Dixon, P.A. Mayewski, J. Jones, and C. Bitz, 2006: Antarctic temperatures over the past two centuries from ice cores, *Geophysical Research Letters*, 33, doi:10.1029/2006GL027057.
6. **Schneider, D.P.**, E.J. Steig, and T. van Ommen, 2005: High-resolution ice core stable isotopic records from Antarctica: towards interannual climate reconstruction, *Annals of Glaciology*, 41, 63-70, doi:10.3189/172756405781813357.
5. Steig, E.J., P.A. Mayewski, D. Dixon, S. Kaspari, M. Frey, **D.P. Schneider**, S.A. Arcone, G.S. Hamilton, V.B. Spikes, M. Albert, D. Meese, A. Gow, C.A. Shuman, J.W.C. White, S. Sneed, J. Flaherty, and M. Wumkes 2005: High-resolution ice cores from US-ITASE (West Antarctica): development and validation of chronologies and determination of precision and accuracy, *Annals of Glaciology*, 41, 77-84, doi:10.3189/172756405781813311.
4. Jacobel, R., B. Welch, E.J. Steig, and **D.P. Schneider**, 2005: Hercules Dome, Antarctica: A Possible Site for deep ice core drilling, *Journal of Geophysical Research*, 110, F01015, doi:10.1029/2004JF000188.
3. **Schneider, D.P.**, E.J. Steig, and J.C. Comiso, 2004: Recent climate variability in Antarctica from satellite-derived temperature data, *Journal of Climate*, 17, 1569-1583, doi:10.1175/1520-0442(2004)017.2.
2. Winebrenner, D.P., E.J. Steig, and **D.P. Schneider**, 2004: Temporal covariation of surface and microwave brightness temperatures in Antarctica, with implications for the observation of surface temperature variability using satellite data, *Annals of Glaciology*, 39, 346-350, doi:10.3189/172756404781813952.
1. **Schneider, D.P.**, and E.J. Steig, 2002: Spatial and temporal variability of Antarctic ice sheet microwave brightness temperatures, *Geophysical Research Letters*, 29, 25.1-25.4, doi:10.1029/2002GL015490.

#### SELECTED FIRST-AUTHOR PRESENTATIONS

*The two major sources of uncertainty in Antarctic climate change projections*, Polar 2018 Open Science conference, Davos, Switzerland (2018)

*Links between the Antarctic and lower latitudes*, Summer School on the Polar Climate System, Hohai University, Nanjing, China (2018) (**Invited**)

*Data Stewardship and Engineering Team (DSET) and Digital Asset Service Hub (DASH) activities for CGD*, Research Report, Boulder, CO (2018)

*The Climate Data Guide...and more!*, Great Antarctic Climate Hackathon, Scripps Institution of Oceanography, La Jolla, CA (2017) (**Invited**)

Uncertainty in projected changes of Antarctic surface temperature, precipitation and sea ice extent, IGS 2017: Polar Ice, Polar Climate, Polar Change, Boulder, CO (2017)

*Structural Uncertainty in Southern Ocean Simulations*, 22<sup>nd</sup> Annual CESM Workshop, Boulder, CO (2017) (**Invited**)

*The relative roles of structural uncertainty and internal variability in Antarctic climate change projections*, Understanding the causes and consequences of polar amplification, Aspen Global Change Institute, Aspen, CO (2017) (**Invited**)

*Causes and consequences of long-term pressure variability and trends over Antarctica*, 97<sup>th</sup> American Meteorological Society Annual Meeting and 14<sup>th</sup> Conference of Polar Meteorology and Oceanography, Seattle, WA (2017)

*Structural Uncertainty in Antarctic sea ice simulations*, AGU Fall Meeting, San Francisco, CA (2016)

*Data Stewardship Engineering Team initiative*, CGD Research Report, Boulder, CO (2016)

*Uncertainty in Antarctic climate change projections & the pivotal role of sea ice*, The West Antarctic Ice Sheet Workshop, Sterling, VA (2016).

*Evaluating climate models: Understanding observations and the tools of the trade*, Dynamical Core Model Intercomparison Project meeting Boulder, CO (2016)

*The role of tropical teleconnections in recent Antarctic climate change*, The National Academies of Sciences Antarctic Sea Ice Workshop, Boulder, CO (2016) **(Invited)**

*Tropical Pacing of Antarctic Sea Ice Increase*, AGU Fall Meeting, San Francisco, CA (2015)

*Tropical influences on Southern Ocean Variability*, 20<sup>th</sup> Annual CESM Workshop, Breckenridge, CO (2015) **(Invited)**

*An assessment of Antarctic and Southern Ocean climatological surface temperature in CMIP5 models*, 20<sup>th</sup> Annual CESM Workshop, Breckenridge, CO (2015)

*Causes and consequences of the westerly wind increase over the Southern Ocean*, INSTAAR Noon Seminar, University of Colorado, Boulder, CO (2015) **(Invited)**

*Comparing the impacts of tropical variability and stratospheric ozone loss on the Southern Ocean westerly winds*, WCRP/PAGES Polar Climate Predictability Workshop, San Diego, CA (2015).

*Data Stewardship Engineering Team initiative*, CGD Research Report, Boulder, CO (2015).

*Antarctic surface temperature and sea ice biases in coupled climate models linked with cloud and land surface properties*, AGU Fall Meeting, San Francisco, CA (2014)

*Wind increase over cooling Southern Ocean driven by tropical warming and polar ozone hole*, AGU Fall Meeting, San Francisco, CA (2014) **(Invited)**

*Understanding Antarctic climate change in the context of Global Warming*, department seminar, Institute for Geophysics, University of Texas, Austin, TX (2014) **(Invited)**

*Ozone and tropical SST forcing of Southern Ocean climate trends*, FESD Ozone Hole summer meeting, Boulder, CO (2014).

*Antarctic surface temperature and sea ice biases linked with surface and top-of-atmosphere albedo*, 19<sup>th</sup> Annual CESM Workshop, Breckenridge, CO (2014)

*Wind increase over cooling Southern Ocean driven by tropical warming and polar ozone hole*, 19<sup>th</sup> Annual CESM Workshop, Breckenridge, CO (2014)

*Relative roles of tropical SSTs and stratospheric ozone in driving recent changes in high-latitude Southern Hemisphere atmospheric circulation*, Amundsen Sea Low Workshop for Polar Predictability Initiative, UCLA, Los Angeles, CA (2013). **(Invited)**.

*Modes of large-scale climate variability and tropical teleconnections affecting Antarctica*, SCAR Antarctic Climate 21 Initiative, Castine, ME (2013). **(Invited)**.

*Symptoms and Causes of Antarctic Climate Change*, NCAR Climate and Global Dynamics Division Seminar, Boulder, CO (2013).

*Climate Data Guide*, NCAR/UCAR Research Data Management Town Hall, Boulder, CO (2013). **(Invited)**

*Antarctic sea ice data*, CESM Polar Climate Working Group Meeting, Boulder, CO (2013). **(Invited)**

*Antarctic climate, Recent and Future*, New Mexico Tech Earth and Environmental Science seminar, Socorro, NM (2012). **(Invited)**

*Antarctic climate dynamics and its connections with low latitudes*, ESF Conference: Modes of Climate Variability in the Climate System: Past-Present-Future, Obergurgl, Austria (2012). **(Invited)**

*Antarctic warming, sea ice, and the bipolar seesaw: Comparing multiple datasets*, Brown University Climate Modeling Seminar (2012). **(Invited)**

*The Informed Guide to Climate Data Sets, a web-based community resource to facilitate the discussion and selection of appropriate datasets for Earth System Model Evaluation*, American Geophysical Union Fall Meeting, San Francisco, CA (2011).

*Trends in Antarctic surface climate and the role of the atmospheric circulation*, CLIVAR Southern Ocean Panel meeting, Boulder, CO (2011). **(Invited)**

*Introducing the Informed Guide to Climate Data Sets, a web-based community resource to facilitate the discussion and selection of appropriate datasets for Earth System Model Evaluation*, World Climate Research Program Open Science Conference, Denver, CO (2011).

*Late 20<sup>th</sup> Century Antarctic climate change in CCSM4*, Polar Climate Working Group Meeting, Boulder, CO (2011)

*An Arctic and Antarctic perspective on interdecadal climate variability and global change*, American Geophysical Union Fall Meeting, San Francisco, CA (2010).

*An assessment and interpretation of West Antarctic warming in the austral spring*, International Polar Year Science Conference, Oslo, Norway (2010).

*Insights into 20<sup>th</sup> and 21<sup>st</sup> Century Antarctic climate change from combining ice cores, observations and modeling*, First World Young Earth-Scientists Congress, Beijing, China (2009). **(Invited)**

*An Antarctic perspective on 20<sup>th</sup>-Century climate change: integrating ice core research, observations and quantitative modeling*, Leverhulme Climate Symposium, Cambridge and London, UK (2008). **(Invited)**

*Climate impacts of the largest volcanic eruption of the last millennium*, CCSM Workshop, Breckenridge, CO (2008).

*Estimating the magnitude of past explosive volcanic activity and its climatic impact in the Arctic: Results from the NCAR Community Climate System Model*, 38<sup>th</sup> International Arctic Workshop, Boulder, CO (2008).

*Spatial covariance of water isotope records in a global network of ice cores spanning 20<sup>th</sup>-Century climate change*, American Geophysical Union Fall Meeting, San Francisco, CA (2007).

*Simulation of Arctic climate response to high- and low- latitude volcanic eruptions during the late Thirteenth Century: Possible early onset of the Little Ice Age*, AGU Fall Meeting, San Francisco, CA (2007). **(Invited)**

*Water isotopes and ice cores as indicators of climate change: Integrating data, modeling and theory*, The International Environmetrics Society North American Regional Meeting, Seattle, WA (2007). **(Invited)**

## **OTHER PUBLICATIONS**

in Northwest Science and Technology magazine, [www.nwst.org](http://www.nwst.org):

*Avalanches in the Northwest (Winter 2005;*

[http://wwik.org/nwst/issues/index.php?issueID=winter\\_2005&storyID=693](http://wwik.org/nwst/issues/index.php?issueID=winter_2005&storyID=693))

*Peak Performance: Doctors scale mountains to research the body's response to high altitudes (Winter 2005;* [http://wwik.org/nwst/issues/index.php?issueID=winter\\_2005&storyID=697](http://wwik.org/nwst/issues/index.php?issueID=winter_2005&storyID=697))

*Vancouver, City on the Edge [book review] (Winter 2004)*

*UW's Kirsten Wind Tunnel Keeps the Northwest Flying (Autumn 2003)*

*Secrets to Superbug's Resistance Revealed (Autumn 2003)*

## **WEBSITES & SOCIAL MEDIA**

Climate Data Guide, <https://climatedataguide.ucar.edu/> (created website)

Twitter, <https://twitter.com/ClimDataGuide>

Google Scholar, <https://scholar.google.com/citations?user=7BKB5mIAAAAJ&hl=en>

LinkedIn, <https://www.linkedin.com/in/david-p-schneider-133a833>