

**JOELLEN L. RUSSELL****PRESENT POSITION**

University Distinguished Professor and Department Head, Department of Geosciences  
Joint Appointments in the Departments of Lunar and Planetary Sciences, Hydrology and Atmospheric Sciences,  
and the Applied Mathematics Program  
Thomas R. Brown Distinguished Chair of Integrative Science  
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**CHRONOLOGY OF EDUCATION**

**1999 – Ph.D.** in Oceanography, Scripps Institution of Oceanography, University of California, San Diego.  
Dissertation title: *The Biogeochemistry of Southern Ocean Intermediate and Mode Waters*; Primary Advisor:  
Andrew G. Dickson (<https://www.proquest.com/openview/6c8f8ed30296a0e9fe19db98d370eec1/1?pq-origsite=gscholar&cbl=18750&diss=y>)  
**1993 – A.B.** in Environmental Geoscience, Department of Earth and Planetary Sciences, Harvard University.  
Thesis title: *Applying Geology to Atmospheric Research: Modern Analogs to Archean Paleosols*; Primary  
Advisor: H.D. Holland

**CHRONOLOGY OF EMPLOYMENT**

**2019-present – Professor**, Departments of Geosciences, Planetary Sciences/Lunar and Planetary Laboratory,  
Hydrology and Atmospheric Sciences, Mathematics/Program in Applied Mathematics, University of Arizona  
**2012-2019 – Associate Professor**, Departments of Geosciences, Planetary Sciences, Lunar and Planetary  
Laboratory, and Hydrology and Atmospheric Sciences, University of Arizona  
**2006-2012 – Assistant Professor**, Department of Geosciences, University of Arizona  
**2002-2006 – Research Scientist**, Program in Atmospheric and Oceanic Sciences, Geosciences Department,  
Princeton University  
**1999-2002 – Postdoctoral Fellow**, JISAO CORE Postdoctoral Fellowship, Joint Institute for the Study of  
Atmosphere and Ocean, Department of Atmospheric Sciences, University of Washington

**HONORS AND AWARDS**

**2024 – Invited Lead Keynote**, GreenAccord Cultural Association's XVI International Media Forum on the  
Safeguard of Nature: Building Future Together, Frascati, Italy (<https://greenaccord.org/xvi-international-forum-information-on-the-safeguarding-of-nature/>)  
**2024 – Invited Speaker**, National Science Foundation: Division of Ocean Sciences, "Frontiers in Ocean Sciences  
Symposium", <https://www.nsf.gov/geo/oce/updates/frontiers-ocean-sciences-symposium>  
**2024 – Ludwick Lecture**, Old Dominion University, Norfolk, VA (<https://www.odu.edu/ocean-earth-sciences/history>)  
**2023-present – Executive Committee Member & US Representative**, International Association for the Physical  
Sciences of the Oceans ([IAPSO](https://www.iapso.org/)). IAPSO is part of the International Union of Geodesy and Geophysics  
(IUGG), and the International Science Council (ISC). **Interim Member 2021-2023**  
**2022 – Honorary Chair**, 2022 UA CARES Campaign  
**2022 – Rutgers Distinguished Lecturer**, Rutgers University, Zoom,  
(<https://marine.rutgers.edu/seminars/seminars-spring-2022/>)  
**2021 – University Distinguished Professor**, University of Arizona  
**2021 – Fulbright U.S. Scholar**, National Institute of Water and Air, Wellington, New Zealand  
(postponed until May-Aug 2023 due to COVID)  
**2017-present – Thomas R. Brown Distinguished Chair of Integrative Science**  
**2017 – Invited Union Session**, American Geophysical Union 2017 Fall Meeting, The Use of Humor in the  
Communication of Geophysical Science, New Orleans, LA (<https://youtu.be/4LqOhcjLU4o?t=1h8m>)

- 2015 – Invited Plenary**, Gordon Research Conference: Processes at Interfaces: Bridging Spatial, Temporal and Disciplinary Divides from Micro- to Global Scales, Holderness, NH
- 2014 – 1885 Society Distinguished Scholar Award**, University of Arizona
- 2012-present – Member**, Gary Comer Foundation “Changelings” group
- 2011-2012 – Distinguished Lecturer**, American Association of Petroleum Geologists
- 2010 – Provost’s General Education Teaching Award**, University of Arizona
- 2009 – Invited Plenary**, ASLO Aquatic Sciences Meeting, Nice, France
- 1989-1993 – Radcliffe National Scholar**, Harvard University, Cambridge, MA

## BOARD MEMBERSHIPS & PROCEEDINGS

- 2025 – Member**, External 5-Yr Review Panel, NOAA Geophysical Fluid Dynamics Laboratory, Princeton, NJ
- 2023 – Member**, National Academies of Science, Engineering and Medicine, Climate Intervention in an Earth Systems Science Framework: A Workshop, (<https://www.nationalacademies.org/our-work/climate-intervention-in-an-earth-systems-science-framework-a-workshop>)
- 2022-present: Member**, Schmidt Futures: Carbon Expert Panel
- 2022 – Stakeholder**, NOAA’s Global Ocean Monitoring and Observations Program Review, (<https://dev-wordpress-gomo.woc.noaa.gov/news-events/gomo-program-review-2022/>)
- 2022 – Member**, External 5-Yr Review Panel, NOAA Climate Program Office 2022 Review, (<https://cpo.noaa.gov/About-CPO/Review>)
- 2022 – Panelist**, NSF Congressional Briefing, “From Antarctica to Your Backyard: How the NSF Connects the Dots on Climate Impact”,
- 2021 – Panelist**, NSF Public Webinar on the US Contribution to the UN Decade of the Ocean, “Observing the Oceans” (Sept 17, 2021)
- 2021 – Panelist**, National Academies of Science, Engineering and Medicine, Workshop on A Research Strategy for Ocean Carbon Dioxide Removal and Sequestration, (Recording at: <https://www.nationalacademies.org/event/02-25-2021/a-research-strategy-for-ocean-carbon-dioxide-removal-and-sequestration-workshop-series-part-4>)
- 2021 – Panelist**, National Academies of Science, Engineering and Medicine, [Emerging Areas of Science, Engineering, and Medicine for the Courts: A Workshop](#), Recording of specific session at <https://vimeo.com/showcase/8214181/video/520072578>, Summary of Remarks: <https://climatelitigationwatch.org/wp-content/uploads/2021/10/Doc-33.pdf>)
- 2020 – Panelist**, National Academies of Science, Engineering and Medicine, Workshop on Earth System Predictability Research and Development Panel, (<https://vimeo.com/429641188>; Proceedings at: <https://www.nap.edu/download/25861>)
- 2019 – Panelist**, NOAA’s Climate Connections: Connecting and Applying Climate Science Across NOAA, Silver Spring, MD **2019-2023 – Chair**, NOAA Science Advisory Board, Climate Working Group
- 2019 – Member**, External 5-Yr Review Stakeholder Panel, NOAA Geophysical Fluid Dynamics Laboratory, Princeton, NJ
- 2018 – Chair**, NOAA Climate and Global Change Postdoctoral Fellowship Program Review Panel, Washington D.C.
- 2018-2022 – Chair**, AGU Science for Solutions Award Committee
- 2017-present – Member**, NCAR Community Earth System Model Advisory Board (CAB/CESM, <http://www.cesm.ucar.edu/management/CAB/>)
- 2017-2019 – Chair**, NOAA Climate and Global Change Postdoctoral Fellowship Steering Committee
- 2017-present – Member**, US-Biogeochemical Argo Subcommittee, sponsored by Ocean Carbon and Biogeochemistry
- 2016-2019 – Member**, NOAA Science Advisory Board’s Climate Working Group
- 2016-2019 – Associate Editor**, AGU, *Paleoceanography and Paleoclimatology*
- 2015-2019 – Member**, NOAA Climate and Global Change Postdoctoral Fellowship Steering Committee
- 2014-2016 – Member**, U.S. Carbon Cycle Science Program’s Carbon Cycle Scientific Steering Group (CCSSG) (<https://www.carboncyclescience.us/carbon-cycle-scientific-steering-group-ccssg>)

- 2014-2018 – Member**, CLIVAR/CliC/SCAR Southern Ocean Region Panel (<https://www.clivar.org/panels-and-working-groups/southern>)
- 2012-2020 – Co-Lead**, International Council for Science (ICSU), Scientific Committee on Antarctic Research Planning Group: Antarctic Climate Change in the 21<sup>st</sup> Century (AntClim21)

## PROFESSIONAL ACTIVITIES/AFFILIATIONS

- 2023-present – Department Head**, Department of Geosciences, University of Arizona
- 2020-2025 – External Member**, Graduate Faculty of the University of Maine
- 2020-2022 – Director of Undergraduate Studies**, Department of Geosciences, University of Arizona
- 2020-2022 – Member**, Honors Faculty Advisory Council, University of Arizona Honors College
- 2019-2021 – Faculty Fellow** (Hosted by Honors Village), University of Arizona
- 2019-present – Executive Committee Member**, Applied Mathematics Graduate Interdisciplinary Program, University of Arizona
- 2019-present – Faculty Member**, Program in Applied Mathematics, University of Arizona
- 2018-present – Faculty Member**, Department of Hydrology and Atmospheric Sciences, University of Arizona
- 2018 – Affiliate Member**, Applied Mathematics Graduate Interdisciplinary Program, University of Arizona
- 2018-present – Member**, University of Arizona Data Science Institute
- 2016-2019 – Faculty Fellow** (Hosted by Student Engagement and Career Development), University of Arizona
- 2016 – Associate Department Head (interim)**, Department of Geosciences, University of Arizona
- 2013 – Visiting Scientist**, NOAA’s Geophysical Fluid Dynamics Laboratory, Princeton, NJ
- 2013 – Visiting Fellow**, Princeton University, Princeton, NJ
- 2012-present – Faculty Member**, Department of Planetary Science, Lunar and Planetary Laboratory, University of Arizona
- 2010-present – Affiliate Member**, Global Change Graduate Interdisciplinary Program, University of Arizona

## PROFESSIONAL SOCIETY MEMBERSHIPS

American Geophysical Union; American Meteorological Society

## PUBLICATIONS/CREATIVE ACTIVITY

75. **Russell, J.L.**, R.J. Stouffer and P.J. Goodman: Simulated Climate Response to the Ozone-Driven Seasonal Stratospheric Cooling, *Nature Geosciences*, (in prep)
74. §Turner, K.E., J.P. Krasting, **J.L. Russell** and R.J. Stouffer: Uncovering the seasonality of storm-driven Southern Ocean heat and carbon uptake, *J. Climate*, (submitted March 2025)
73. ‡Stirpe, C.R., K.A. Allen, E.L. Sikes, **J.L. Russell**, A.E. Putnam and T.P. Guilderson, Synchronous subsurface ocean warming in both hemispheres during Heinrich Stadial 1, *Nature*, (submitted, in revision, Sept 2024)
72. †Kamulali, T.M., A.S. Cohen, P.J. Goodman and **J.L. Russell**: Understanding Circulation Patterns in Lake Tanganyika: A Simulation Approach using a 3D ROMS model, *Geophysical Research Letters*, (submitted, in revision, Sept 2024)
71. Sarmiento, J.L., K.S. Johnson, L.A. Arteaga, S.M. Bushinsky, H.M. Cullen, A.R. Gray, R.M. Hotinski, T.L. Maurer, M.R. Mazloff, S.C. Riser, **J.L. Russell**, O.M. Schofield, and L.D. Talley, 2023: The Southern Ocean Carbon and Climate Observations and Modeling (SOCCOM) project: A review, *Progress in Oceanography*, <https://doi.org/10.1016/j.pocean.2023.103130>
70. Sikes, E.L., N. Umling, K.A. Allen, U. Ninnemann, R.S. Robinson, **J.L. Russell** and T.J. Williams, 2023: Southern Ocean Glacial Conditions and Their Influence on Deglacial Events. *Nature Reviews Earth and Environment*, **4**, 454–470, <https://doi.org/10.1038/s43017-023-00436-7>
69. **Russell, J.L.**, 2023: Southern Ocean heat sink hindered by melting ice, *Nature*, **615**, 799-800, <https://doi.org/10.1038/d41586-023-00835-2> ([Author's Complimentary Link](#))
68. Brewin, R.J.W., S. Sathyendranath, G. Kulk, M.-H. Rio, J.A. Concha, T.G. Bell, A. Bracher, C. Fichot, T.L. Frölicher, M. Galí, D.A. Hansell, T.S. Kostadinov, C. Mitchell, A.R. Neeley, E. Organelli, K. Richardson, C. Rousseaux, F. Shen, D. Stramski, M. Tzortziou, A.J. Watson, C.I. Addey, M. Bellacicco, H. Bouman, D. Carroll, I. Cetinic, G. Dall’Olmo, R. Frouinad, J. Hauck, M. Hieronymiae, C. Hu, V. Ibello, B. Jönsson, C.E. Kong, Ž. Kovac, M. Laine, J. Lauderdale, S. Lavender, E. Livanou, J. Llort, L. Lorinczi, M. Nowicki, N.A.

- Pradisty, S. Psarra, D.E. Raitsos, A.B. Ruescas, **J.L. Russell**, J. Salisbury, R. Sanders, J.D. Shutler, X. Sun, F.G. Taboada, G. Tilstone, X. Wei, and D.K. Woolf, 2023: Ocean carbon from space: current status and priorities for the next decade. *Earth Science Reviews*, <https://doi.org/10.1016/j.earscirev.2023.104386>
67. †Audet, A., A.E. Putnam, **J.L. Russell**, A. Lorrey, A. Mackintosh, B. Anderson and G.H. Denton, 2022: Correspondence Among Mid-Latitude Glacier Snowlines, Atmospheric Temperatures, And Westerly Wind Fields, *Geophysical Research Letters*, <https://doi.org/10.1029/2022GL099897>
66. Denton, G.H., S. Toucanne, A.E. Putnam, D.J.A. Barrell and **J.L. Russell**, 2022: Heinrich Summers, *Quaternary Science Reviews*, **295**, 107750, <https://doi.org/10.1016/j.quascirev.2022.107750>
65. §†Beadling, R.L., J.P. Krasting, S.M. Griffies, W.J. Hurlin, B. Bronselaer, **J.L. Russell**, G.A. MacGilchrist, J.-E. Tesdal and M. Winton, 2022: Importance of the Antarctic Slope Current on the transient response of the Southern Ocean to Antarctic ice sheet melt and projected wind stress change, *J. Geophysical Research: Oceans*, **127**, e2021JC017608. <https://doi.org/10.1029/2021JC017608>
64. Stouffer, R.J., **J.L. Russell**, R.L. Beadling, A.J. Broccoli, J.P. Krasting, S. Malyshev and Z. Naiman, 2022: The Role of Continental Topography in the Present-Day Ocean's Mean Climate, *J. Climate*, **35**, 1327-1346. <https://doi.org/10.1175/JCLI-D-20-0690.1>
63. †Swierczek, S., M. Mazloff and **J.L. Russell**, 2021b: Investigating predictability of DIC and SST in the Argentine Basin through wind stress perturbation experiments, *Geophysical Research Letters*, **48**, e2021GL095504. <https://doi.org/10.1029/2021GL095504>
62. †Swierczek, S., M.R. Mazloff, M. Morzfeld and **J.L. Russell**, 2021a: The effect of resolution on vertical heat and carbon transports in a regional ocean circulation model of the Argentine Basin, *J. Geophysical Research: Oceans*, **126**, e2021JC017235. <https://doi.org/10.1029/2021JC017235>
61. Denton, G.H., A.E. Putnam, **J.L. Russell**, D.J.A. Barrell, J.M. Schaefer, M.R. Kaplan and P.D. Strand, 2021: The Zealandia Switch: Ice age climate shifts viewed from Southern Hemisphere moraines, *Quaternary Science Reviews*, **257**, 106771, <https://doi.org/10.1016/j.quascirev.2020.106771>.
60. Zeng, X., R. Atlas, R.J. Birk, F.H. Carr, M.J. Carrier, L. Cucurull, W.H. Hooke, E. Kalnay, R. Murtugudde, D.J. Posselt, **J.L. Russell**, D.P. Tyndall, R.A. Weller, and F. Zhang, 2021: Observing System Simulation Experiments Today and Tomorrow. *Bull. Amer. Meteor. Soc.*, **102**(2), 124-130, <https://doi.org/10.1175/BAMS-D-19-0155.A>
59. Zeng, X., R. Atlas, R.J. Birk, F.H. Carr, M.J. Carrier, L. Cucurull, W.H. Hooke, E. Kalnay, R. Murtugudde, D.J. Posselt, **J.L. Russell**, D.P. Tyndall, R.A. Weller, and F. Zhang, 2020: Use of Observing System Simulation Experiments in the US, *Bull. Amer. Meteor. Soc.*, **101**(8), E1427-E1438. <https://doi.org/10.1175/BAMS-D-19-0155.1>
58. Eyring, V., L. Bock, A. Lauer, M. Righi, M. Schlund, B. Andela, E. Arnone, ... **J.L. Russell**, ... and K. Zimmermann, 2020: ESMValTool (v2.0) – Part 2: an extended set of large-scale diagnostics for quasi-operational and comprehensive evaluation of Earth system models in CMIP6, *Geoscientific Model Development*, **13**, 3383–3438, <https://doi.org/10.5194/gmd-2019-291>
57. †Beadling, R.L., **J.L. Russell**, R.J. Stouffer, M. Mazloff, L.D. Talley, P.J. Goodman, J.B., Sallée, H.T., Hewitt, P. Hyder, P., & A. Pandde, 2020: Representation of Southern Ocean Properties across Coupled Model Intercomparison Project Generations: CMIP3 to CMIP6, *J. Climate*, **33**, 6555-6581, <https://doi.org/10.1175/JCLI-D-19-0970.1>
56. §Bronselaer, B., **J.L. Russell**, M. Winton, N.L. Williams, R.M. Key, J.P. Dunne, R.A. Feely, K.S. Johnson and J.L. Sarmiento, 2020: Importance of wind and meltwater for observed chemical and physical changes in the Southern Ocean, *Nature Geosciences*, **13**, 35-42. <https://doi.org/10.1038/s41561-019-0502-8>
55. Cohen, A., C. Campisano, J.R. Arrowsmith, A. Asrat, A.K. Behrensmeier, A. Deino, C. Feibel, A. Hill, R. Johnson, J. Kingston, H. Lamb, T. Lowenstein, A. Noren, D. Olago, R.B. Owen, R. Potts, K. Reed, R. Renaut, F. Schäbitz, J.-J. Tiercelin, M.H. Trauth, J. Wynn, S. Ivory, K. Brady, R. O'Grady, J. Rodysill, J. Githiri, **J.L. Russell**, V. Foerster, R. Dommain, J.S. Rucina, D. Deocampo, J.M. Russell, A. Billingsley, C. Beck, G. Dorenbeck, L. Dullo, D. Feary, D. Garello, R. Gromig, T. Johnson, A. Junginger, M. Karanja, E. Kimburi, A. Mbuthia, T. McCartney, E. McNulty, V. Muiruri, E. Nambiro, E.W. Negash, D. Njagi, J.N. Wilson, N. Rabideaux, T. Raub, M.J. Sier, P. Smith, J. Urban, M. Warren, M. Yadeta, C. Yost and B. Zinaye, 2019: The Hominin Sites and Paleolakes Drilling Project, in Postprints der Universität Potsdam: Mathematisch-Naturwissenschaftliche Reihe. <https://doi.org/10.25932/publishup-41249>



54. †Beadling, R.L., **J.L. Russell**, R.J. Stouffer, P.J. Goodman and M. Mazloff, 2019: Assessing the quality of Southern Ocean circulation in CMIP5 AOGCM and Earth System Model simulations, *J. Climate*, **32**, 5915–5940, <https://doi.org/10.1175/JCLI-D-19-0263.1>
53. †Chang, C.-C., G.S. Burr, A.J.T. Jull, **J.L. Russell**, A. Priyadarshi, M. Lin, M. Thiemens and D. Biddulph, 2019: Measurements of <sup>129</sup>I in the Pacific Ocean at Scripps Pier and Pacific Northwest sites: A search for effects from the 2011 Fukushima Daiichi Nuclear Power Plant accident and Hanford, *Science of the Total Environment*, **669**, 1023–1029, <https://doi.org/10.1016/j.scitotenv.2019.06.372>
52. Bracegirdle, T.J., F. Colleoni, N.J. Abram, N. Bertler, D.A. Dixon, M. England, V. Favier, C. Fogwill, J.C. Fyfe, I. Goodwin, H. Goosse, W. Hobbs, J.M. Jones, E.D. Keller, A. Khan, S.J. Phipps, M. Raphael, **J.L. Russell**, L. Sime, E.R. Thomas, M. van den Broeke and I. Wainer, 2019: Back to the Future: Using Long-Term Observational and Paleo-Proxy Reconstructions to Improve Model Projections of Antarctic Climate, *Geosciences*, **9**, 255, <https://doi.org/10.3390/geosciences9060255>
51. Eyring, V., P. Cox, G. Flato, P. Gleckler, G. Abramowitz, P. Caldwell, W. Collins, B. Gier, A. Hall, F. Hoffman, G. Hurtt, A. Jahn, C. Jones, S. Klein, J. Krasting, L. Kwiatkowski, R. Lorenz, E. Maloney, G. Meehl, A. Pendergrass, R. Pincus, A. Ruane, **J.L. Russell**, B. Sanderson, B. Santer, S. Sherwood, I. Simpson, R. Stouffer and M. Williamson, 2019: Taking climate model evaluation to the next level, *Nature Climate Change*, **9**, 102–110, <https://doi.org/10.1038/s41558-018-0355-y>
50. †Beadling, R.L., **J.L. Russell**, R.J. Stouffer and P.J. Goodman, 2018: Evaluation of subtropical North Atlantic ocean circulation in CMIP5 models against the observational array at 26.5°N and its changes under continued warming, *J. Climate*, **31**, 9697–9718, <https://doi.org/10.1175/JCLI-D-17-0845.1>
49. Huntzinger, D.N., A. Chatterjee, D.J.P. Moore, S. Ohrel, T.O. West, B. Poulter, A.P. Walker, J. Dunne, S.R. Cooley, A.M. Michalak, M. Tzortziou, L. Bruhwiler, A. Rosenblatt, Y. Luo, P. J. Marcotullio and **J.L. Russell**, 2018: Chapter 19: Future of the North American carbon cycle. In Second State of the Carbon Cycle Report (SOCCR2): A Sustained Assessment Report [Cavallaro, N., G. Shrestha, R. Birdsey, M.A. Mayes, R.G. Najjar, S.C. Reed, P. Romero-Lankao and Z. Zhu (eds.)]. U.S. Global Change Research Program, Washington, DC, USA, pp. 760–809, <https://doi.org/10.7930/SOCCR2.2018.Ch19>
48. Fennel, K., S.R. Alin, L. Barbero, W. Evans, T. Bourgeois, S.R. Cooley, J. Dunne, R.A. Feely, J.M. Hernandez-Ayon, C. Hu, X. Hu, S.E. Lohrenz, F. Muller-Karger, R.G. Najjar, L. Robbins, **J.L. Russell**, E.H. Shadwick, S. Siedlecki, N. Steiner, D. Turk, P. Vlahos and Z.A. Wang, 2018: Chapter 16: Coastal ocean and continental shelves. In Second State of the Carbon Cycle Report (SOCCR2): A Sustained Assessment Report [Cavallaro, N., G. Shrestha, R. Birdsey, M.A. Mayes, R.G. Najjar, S.C. Reed, P. Romero-Lankao and Z. Zhu (eds.)]. U.S. Global Change Research Program, Washington, DC, USA, pp. 649–688, <https://doi.org/10.7930/SOCCR2.2018.Ch16>
47. §Bronse laer, B., M. Winton, S.M. Griffies, W.J. Hurlin, K.B. Rodgers, O.V. Sergienko, R.J. Stouffer and **J.L. Russell**, 2018: Change in future climate due to freshwater from Antarctic ice melt, *Nature*, **564**, 53–58. <https://doi.org/10.1038/s41586-018-0712-z>
46. Gray, A.R., K.S. Johnson, S.M. Bushinsky, S.C. Riser, **J.L. Russell**, L.D. Talley, R. Wanninkhof, N.L. Williams and J.L. Sarmiento, 2018: Autonomous Biogeochemical Floats Detect Significant Carbon Dioxide Outgassing in the High-Latitude Southern Ocean, *Geophysical Research Letters*, **45**. <https://doi.org/10.1029/2018GL078013>
45. Khan, A.L., T.J. Bracegirdle and **J.L. Russell**, 2018: Can we crack the climate code of the southern polar region?, *Eos*, **99**, <https://doi.org/10.1029/2018EO100467>
44. ‡Williams, N.L., L.W. Juranek, R.A. Feely, **J.L. Russell**, K.S. Johnson and B. Hales, 2018: Assessment of the carbonate chemistry seasonal cycles in the Southern Ocean from persistent observational platforms, *J. Geophysical Research: Oceans*, **123**, 4833–4852. <https://doi.org/10.1029/2017JC012917>
43. **Russell, J.L.**, 2018: Ocean sensors can track progress on climate goals, *Nature*, **555**, 287. <https://doi.org/10.1038/d41586-018-03068-w>
42. **Russell, J.L.**, I. Kamenkovich, C. Bitz, R. Ferrari, S.T. Gille, P.J. Goodman, R. Hallberg, K. Khazmutdinova, K. Johnson, I. Marinov, M. Mazloff, J.L. Sarmiento, K. Speer, L.D. Talley, and R. Wanninkhof, 2018: Metrics for the Evaluation of the Southern Ocean in Coupled Climate and Earth System Models, *J. Geophysical Research: Oceans*, **123**, 3120–3143. <https://doi.org/10.1002/2017JC013461>

41. §Bronselaer, B., M. Winton, **J.L. Russell**, C.L. Sabine and S. Khatiwala, 2017: Agreement of CMIP5 simulated and observed ocean anthropogenic CO<sub>2</sub> uptake, *Geophysical Research Letters*, **44**, 12,298–12,305.  
<https://doi.org/10.1002/2017GL074435>
40. †Naiman, Z., P.J. Goodman, J.P. Krasting, S.L. Malyshev, **J.L. Russell**, R.J. Stouffer, and A.T. Wittenberg, 2017: Impact of Mountains on Tropical Circulation in Two Earth System Models. *J. Climate*, **30**, 4149–4163,  
<https://doi.org/10.1175/JCLI-D-16-0512.1>
39. Campisano, C.J., A.S. Cohen, J.R. Arrowsmith, A. Asrat, A.K. Behrensmeier, E.T. Brown, A.L. Deino, D.M. Deocampo, C.S. Feibel, J.D. Kingston, H.F. Lamb, T.K. Lowenstein, A. Noren, D.O. Olago, R.B. Owen, J.D. Pelletier, R. Potts, K.E. Reed, R.W. Renaut, J.M. Russell, **J.L. Russell**, F. Schäbitz, J.R. Stone, M.H. Trauth and J.G. Wynn, 2017: The Hominin Sites and Paleolakes Drilling Project: High-Resolution Paleoclimate Records from the East African Rift System and Their Implications for Understanding the Environmental Context of Hominin Evolution, *Paleoanthropology*, **2017**, 1-43, <https://doi.org/doi:10.4207/PA.2017.ART104>, (available [HERE](#))
38. ‡Williams, N.L., L.W. Juranek, R.A. Feely, K.S. Johnson, J.L. Sarmiento, L.D. Talley, A.G. Dickson, A.R. Gray, R. Wanninkhof, **J.L. Russell**, S.C. Riser, and Y. Takeshita, 2017: Calculating surface ocean pCO<sub>2</sub> from biogeochemical Argo floats equipped with pH: an uncertainty analysis, *Global Biogeochemical Cycles*, **31**,  
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\*Publication is based largely on work done as a graduate student

†Publication's first author is a current or former graduate student advisee

‡Publication's first author was a graduate student at the time of submission

§Publication's first author is a current or former post-doctoral advisee

### **Other Publications: Not Peer-Reviewed**

21. **Russell, J.L.**, and S. Wijffels, 2023: Organizing US Civilian Operational Oceanography Forecasting Services: A Climate Working Group Report, in support of the NOAA Science Advisory Board ([https://sab.noaa.gov/wp-content/uploads/SAB\\_Report\\_Nov2023\\_CWG\\_Ocean-Forecasting.pdf](https://sab.noaa.gov/wp-content/uploads/SAB_Report_Nov2023_CWG_Ocean-Forecasting.pdf))
20. **Russell, J.L.**, K. Dow, M. Anderson, K. Asante, C. Bitz, A. Karspeck, A. Omar, S. Wijffels, S. Wilhelm and D. Wuebbles, 2023: Climate Working Group (CWG) Review of the Draft Climate Program Office Strategic Plan 2023-2027 ([https://sab.noaa.gov/wp-content/uploads/CWG-Review-of-the-Draft-CPO-Strategic-Plan\\_Final.pdf](https://sab.noaa.gov/wp-content/uploads/CWG-Review-of-the-Draft-CPO-Strategic-Plan_Final.pdf))
19. Lorrey, A., A. Putnam, D. Barrell, G. Denton and **J. Russell**, 2022: "The Zealandia Switch drove rapid global ice retreat 18,000 years ago. Has it switched to a new level?", *The Conversation*, (<https://theconversation.com/the-zealandia-switch-drove-rapid-global-ice-retreat-18-000-years-ago-has-it-switched-to-a-new-level-179188>)
18. **Russell, J.L.**, K. Dow, S. Wijffels and M. McCammon, 2021: Review of the "NOAA Climate and Fisheries Implementation Approach", ([https://sab.noaa.gov/wp-content/uploads/2021/09/CWG-Review-of-Climate-and-Fisheries-Initiative-Implementation-Approach\\_09-17-21\\_Final.pdf](https://sab.noaa.gov/wp-content/uploads/2021/09/CWG-Review-of-Climate-and-Fisheries-Initiative-Implementation-Approach_09-17-21_Final.pdf))
17. **Russell, J.L.**, K. Dow, K. Asante, M. Anderson and R. Twilley, 2021: Review of the Coastal Inundation at Climate Timescales White Paper, (<https://sab.noaa.gov/wp-content/uploads/2021/08/CWG-Review-of-Coastal-Inundation-at-Climate-Timescales-White-Paper.pdf>)



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16. **Russell, J.L.**, K. Dow, M. Anderson, K. Asante, C. Bitz, P. Fleming, R. Fu, L. Jiang, A. Omar, A.R. Ravishankara and S. Wijffels, 2021: Advancing Earth System Prediction (White Paper), ([https://sab.noaa.gov/wp-content/uploads/2021/08/FINAL\\_CWG-Advancing-Earth-System-Prediction-White-Paper.pdf](https://sab.noaa.gov/wp-content/uploads/2021/08/FINAL_CWG-Advancing-Earth-System-Prediction-White-Paper.pdf))
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#### **GRANTS AND CONTRACTS (Current, Pending & Completed)**

32. (Pending) **9/1/2025-8/31/2028** Co-Principal Investigator, NSF (EAR) “Collaborative Research: Onset of the last glacial termination in southernmost South America”, \$46,284 (UA Portion)
31. (Pending) **9/1/2025-8/31/2028** Co-Principal Investigator, NSF (EAR) “Collaborative Research: Pattern and timing of full-glacial conditions in the Southern Hemisphere- Unravelling the mechanisms of global climate change”, \$310,741(UA Portion)
30. **1/1/2024-12/31/2028** Co-Principal Investigator, NSF (PLR, subaward through Scripps Institution of Oceanography, UCSD) “SOCCOM3: Science to predict the future of the Southern Ocean and its global impacts”; \$1,596,699 (UA, ~\$9.4M total).
29. **11/1/2022-10/31/2025** Project Partner, NSF (EAR) “REU Site: From the Clouds to the Core: A Place-Based REU for Southwestern US Community/Tribal College Students to Increase Under-Represented Group Recruitment to the Geosciences”, \$402,893 ([website](#))
28. **2/1/2023-8/31/2023 Principal Investigator**, BIO5 Rapid Seed Fund, “CosmoCeuticals Gas-As-Drugs - Planetary Gases Discovery and Gas Marbles Delivery for Novel Medical Gas Therapy”; \$48,886
27. **09/01/2022-08/31/2025** Co-Principal Investigator, NSF (EAR) “Collaborative Research: The Role of Seasonality in Abrupt Climate Change – a Test by Reconstructing Fluctuations of a Late-Glacial Ice Mass in Eastern North America”; \$54,822 (UA portion)
26. **02/01/2021-07/31/2024** Project Partner, United Kingdom Research & Innovation/National Environmental Research Council (NERC/UKRI), “Improved projections of winds at the crossroads between Antarctica and the Southern Ocean; £152,847
25. **10/01/2020-3/31/2021** Consultant, NASA Small Business Innovation Research (NASA SBIR) Phase I, “Hyperspectral VSF and Polarization Instrument” awarded to Photonics Automation Specialties, LLC; \$2,000.
24. **09/15/2020-12/31/2020 Principal Investigator**, The Nature Conservancy “Arizona Thrives Carbon Dashboard”; \$30,000.
23. **09/01/2020-08/31/2023** Co-Principal Investigator, NSF (EAR) “Collaborative Research: Timing of the Termination in Southernmost South America”; \$31,188 (UA portion); 0.25 summer months
22. **09/01/2020-08/31/2024** Co-Investigator, NSF (PLR, subaward through Princeton University) “Southern Ocean Carbon and Climate Observations and Modeling II (SOCCOM2)”; \$923,000 (UA, ~\$11M total).
21. **03/01/2020-02/28/2021 Principal Investigator**, Global Climate Change Foundation “Big Winds, Big Ice”; \$30,000.
20. **09/01/2019-08/31/2021** Co-Principal Investigator, UofA Faculty Seed Grant, “Thermal and topographic control on the midlatitude atmospheric circulation”, \$15,000.
19. **09/01/2019-08/31/2022** Co-Principal Investigator, NSF (EAR) “Collaborative Research: Reconstructing Holocene Climate Change in the Southern Hemisphere from Southern Alps Mountain Glaciers and Tree Rings”; \$47,244 (UA portion); 0.50 summer months
18. **07/01/2017-06/30/2024** Partner Investigator, ARC Centre of Excellence for Climate Extremes, \$30,050,000, (see <http://climateextremes.org.au/partner-investigators/>)
17. **09/01/2015-08/31/2019 Principal Investigator**, EPA – STAR Fellowship Award, “Uncertainty for America's Coast's: The Future Evolution of the Atlantic Meridional Overturning Circulation”, \$51,000.
16. **09/30/2014-09/30/2016 Principal Investigator**, Amazon Web Services Climate Grant Award, \$15,000 and 4M core-hours.
15. **09/01/2014-08/31/2020** Co-Investigator, NSF (PLR, subaward through Princeton University) “Southern Ocean Carbon and Climate Observations and Modeling (SOCCOM)”; \$2,363,971 (UA, \$21M total).
14. **12/20/2013-06/30/2014 Principal Investigator**, University of Arizona, Online Education Project, “Hybrid Course Development for GEOS212: Introduction to Oceanography”, \$10,000.
13. **09/01/2013-08/31/2019** Co-Principal Investigator, NSF (EAR) “FESD Type I: Earth System Dynamics and its Role in Human Evolution in Africa”, \$4,905,187.

12. **08/15/2013-07/31/16 Principal Investigator**, NSF (PLR) “The Southern Ocean in a Warming World: Winds, Carbon and Heat”, \$323,343.
11. **07/01/2013-06/30/2016** Co-Investigator, Arizona Board of Regents, Regents Innovation Fund “A State-wide Research Initiative in Environmental Informatics: Arizona Environmental Grid Infrastructure Service (AEGIS)”, \$1,350,000.
10. **07/01/2012-06/30/2020** Co-Principal Investigator, Scientific Committee on Antarctic Research (SCAR) “Antarctic Climate Change in the 21<sup>st</sup> Century (AntClim<sup>21</sup>)”, \$120,000.
9. **09/01/12-08/31/14**, Principal Investigator, NASA – NESSF, “Modeling Titan's Atmospheric Dynamics and their Interaction with Methane”, \$60,000.
8. **06/01/2012-05/31/2015 Principal Investigator**, NSF (AGS) “Collaborative Research: P2C2 – Tracking Long-Term Glacial-Interglacial Wind Pattern Variability In Central Asia Using Geochemical Analysis Of Aerosol Derived Detritus”, \$200,984.
7. **09/01/2010-08/31/2013** COSA2, (DeCelles PI, many other co-PIs in Department of Geosciences), ExxonMobil, \$1,890,000.
6. **01/25/2010-01/30/2010** Junior Faculty Conference Grant, Travel Expenses to 2009 ASLO (Advancing the Science of Limnology and Oceanography) Aquatic Sciences Meeting in Nice, France. \$900.
5. **09/01/2008-08/31/2011** Consultant, NSF Coupled Natural-Human Systems Initiative (NSF 07-598), “Collaborative Research: Urban Vulnerability to Climate Change: A System Dynamics Analysis.” \$15,000.
4. **09/01/2007-08/31/2012** Collaborator, NSF Amazon PIRE, “Partnership for International Research and Education in Amazon-Climate Interactions.” (amazonpire.org)
3. **06/01/2007-05/31/2010** Convergent Orogenic Systems Analysis, (COSA, DeCelles PI, many other co-PIs in Department of Geosciences), ExxonMobil, \$1,500,000.
2. **05/01/2007-04/30/2012 Principal Investigator**, NOAA Office of Global Programs, “A climate process team on Southern Ocean water mass transformation and the carbon cycle.” \$309,762.
1. **07/01/2005-06/30/2008 Principal Investigator**, NOAA Office of Global Programs (GC05-146), “Optimal network design to detect spatial patterns and variability of ocean carbon sources and sinks from underway surface CO<sub>2</sub> measurements.” \$163,674.

**TEACHING (>8000 students total enrollment; classes with a \* were delivered entirely online)**

Semester	Course	Title	Enrollment
2025/Spring	GEOS483	Modes of Climate Variability (w/ D. Thompson)	5
2025/Spring	GEOS583	Modes of Climate Variability (w/ D. Thompson)	7
2024/Fall	GEOS212-1	Introduction to Oceanography (w/ P. Goodman)	214
2024/Fall	GEOS212-2	Introduction to Oceanography: Honors	7
2024/Fall	GEOS212-3	Introduction to Oceanography: <i>Online</i> (w/ P. Goodman)	127
2024/Fall	GEOS212-4	Introduction to Oceanography: Honors <i>Online</i>	3
2024/Fall	GEOS397A	Teaching Geosciences	10
2024/Fall	GEOS478-1	Global Change (w/ S. Saleska)	20
2024/Fall	GEOS478-2	Global Change: <i>Online</i> (w/ S. Saleska)	42
2024/Fall	GEOS578	Global Change (w/ S. Saleska) ( <i>also ECOL, GC, GEOG, HWRS</i> )	16
2024/Spring	GEOS212-1	Introduction to Oceanography (w/ P. Goodman)	149
2024/Spring	GEOS212-2	Introduction to Oceanography: Honors	4
2024/Spring	GEOS212-3	Introduction to Oceanography: <i>Online</i> (w/ P. Goodman)	138
2024/Spring	GEOS212-4	Introduction to Oceanography: Honors <i>Online</i>	3
2024/Spring	GEOS397A	Teaching Geosciences	7
2023/Fall	GEOS212-1	Introduction to Oceanography (w/ P. Goodman)	268
2023/Fall	GEOS212-2	Introduction to Oceanography: Honors	16
2023/Fall	GEOS212-3	Introduction to Oceanography: <i>Online</i> (w/ P. Goodman)	210
2023/Fall	GEOS212-4	Introduction to Oceanography: Honors <i>Online</i>	4
2023/Fall	GEOS397A	Teaching Geosciences	20
2023/Fall	GEOS478-1	Global Change (w/ S. Saleska)	26
2023/Fall	GEOS478-2	Global Change: <i>Online</i> (w/ S. Saleska)	48

2023/Fall	GEOS578	Global Change (w/ S. Saleska) ( <i>also ECOL, GC, GEOG, HWRS</i> )	13
2023/Spring	GEOS596H	Ocean's Role in Climate	2
2022/Fall	GEOS212-1	Introduction to Oceanography (w/ P. Goodman)	231
2022/Fall	GEOS212-2	Introduction to Oceanography: Honors	17
2022/Fall	GEOS212-3	Introduction to Oceanography: <i>Online</i> (w/ P. Goodman)	214
2022/Fall	GEOS212-4	Introduction to Oceanography: Honors <i>Online</i>	8
2022/Fall	GEOS397A	Teaching Geosciences	19
2022/Fall	GEOS478/578	Global Change (w/ S. Saleska) ( <i>also ECOL, GC, GEOG, HWRS</i> )	50
2022/Spring		<i>Sabbatical</i>	
2021/Fall	GEOS212-1	Introduction to Oceanography (w/ P. Goodman)	274
2021/Fall	GEOS212-2	Introduction to Oceanography: Honors	9
2021/Fall	GEOS212-3	Introduction to Oceanography: <i>Online</i> (w/ P. Goodman)	223
2021/Fall	GEOS212-4	Introduction to Oceanography: Honors <i>Online</i>	14
2021/Fall	GEOS397A	Teaching Geosciences	19
2021/Fall	GEOS478/578	Global Change (w/ S. Saleska) ( <i>also ECOL, GC, GEOG, HWRS</i> )	46
2021/Spring*	GEOS596H	Ocean's Role in Climate	5 (1 audit)
2020/Fall*	GEOS212-1	Introduction to Oceanography (w/ P. Goodman)	352
2020/Fall*	GEOS212-2	Introduction to Oceanography: Honors	23
2020/Fall*	GEOS212-3	Introduction to Oceanography: <i>Online</i> (w/ P. Goodman)	58
2020/Fall*	GEOS212-4	Introduction to Oceanography: Honors <i>Online</i>	6
2020/Fall*	GEOS397A	Teaching Geosciences	28
2020/Fall*	GEOS478/578	Global Change (w/ S. Saleska) ( <i>also ECOL, GC, GEOG, HWRS</i> )	41
2020/Spring*	HNRS195I	Future Oceans	21
2019/Fall	GEOS212-1	Introduction to Oceanography (w/ P. Goodman)	364
2019/Fall	GEOS212-2	Introduction to Oceanography: Honors	26
2019/Fall	GEOS212-3	Introduction to Oceanography: <i>Hybrid/Online</i> (w/ P. Goodman)	236
2019/Fall	GEOS212-4	Introduction to Oceanography: Honors <i>Hybrid/Online</i>	1
2019/Fall	GEOS397A	Teaching Geosciences	26
2019/Fall	GEOS478/578	Global Change (w/ P. Goodman)( <i>also ECOL, GC, GEOG, HWRS</i> )	41
2019/Spring	GEOS596H	Climate Hack – Ocean, Atmosphere and Climate Analysis	5
2019/Spring	HNRS195I	Ocean's Role in Future Climate	19
2018/Fall	GEOS212-1	Introduction to Oceanography	338
2018/Fall	GEOS212-2	Introduction to Oceanography: Honors	19
2018/Fall	GEOS212-3	Introduction to Oceanography: <i>Hybrid/Online</i>	384
2018/Fall	GEOS397A	Teaching Geosciences	19
2018/Fall	GEOS478/578	Global Change (with S. Saleska)( <i>also ECOL, GC, GEOG, HWRS</i> )	38
2018/Spring	HNRS195I	Ocean's Role in Future Climate	17
2017/Fall	GEOS212-1	Introduction to Oceanography	540
2017/Fall	GEOS212-2	Introduction to Oceanography: Honors	33
2017/Fall	GEOS212-3	Introduction to Oceanography: <i>Hybrid/Online</i>	291
2017/Fall	GEOS397A	Teaching Geosciences	29
2017/Spring	GEOS596H	Ocean's Role in Climate	5
2016/Fall	GEOS212-1	Introduction to Oceanography	546
2016/Fall	GEOS212-2	Introduction to Oceanography: Honors	29
2016/Fall	GEOS212-3	Introduction to Oceanography: <i>Hybrid/Online</i>	205
2016/Fall	GEOS397A	Teaching Geosciences	26
2016/Spring	GEOG/GEOS547	Global and Regional Climatology (with K. Hirschboeck)	12
2015/Fall	GEOS212-1	Introduction to Oceanography	555
2015/Fall	GEOS212-2	Introduction to Oceanography: Honors	26
2015/Fall	GEOS397A	Teaching Geosciences	26
2015/Spring	GEOS596H	Ocean's Role in Climate: Physical and Chemical Oceanography	11
2014/Fall	GEOS212-1	Introduction to Oceanography	350



2014/Fall	GEOS212-2	Introduction to Oceanography: Honors	26
2014/Fall	GEOS397A	Teaching Geosciences	26
2014/Spring	GEOG/GEOS547	Global and Regional Climatology (with K. Hirschboeck)	12
2013/Fall	GEOS212-1	Introduction to Oceanography	351
2013/Fall	GEOS212-2	Introduction to Oceanography: Honors	24
2013/Fall	GEOS397A	Teaching Geosciences	24
2013/Spring		<i>Sabbatical</i>	
2012/Fall	GEOS396H	Honors Seminar: The Ocean's Role in Climate	3
2012/Fall	GEOS212-1	Introduction to Oceanography	341
2012/Fall	GEOS212-2	Introduction to Oceanography: Honors	35
2012/Fall	GEOS397A	Teaching Geosciences	35
2012/Spring	GEOG/GEOS547	Global and Regional Climatology (with K. Hirschboeck)	12
2011/Fall	GEOS596H	Climate and Tectonics (with B. Carrapa)	9
2011/Fall	GEOS479/579	Introduction to Climate Dynamics (with J. Yin)	7
2011/Fall	GEOS212-1	Introduction to Oceanography	369
2011/Fall	GEOS212-2	Introduction to Oceanography: Honors	23
2011/Fall	GEOS397A	Teaching Geosciences	23
2011/Spring	GEOS596H	Advances in Climate Modeling	7
2010/Spring	GEOS596H	Modes of Climate Variability	8
2009/Fall	GEOS212-1	Introduction to Oceanography (with G. Gehrels)	1054
2009/Fall	GEOS212-2	Introduction to Oceanography: Honors (with G. Gehrels)	15
2009/Fall	GEOS397A	Teaching Geosciences	15
2009/Fall	GEOS342	Evolution of the Earth, Ocean, and Atmosphere (with P. Reiners)	15
2009/Spring	GEOS596H	Advances in Climate Modeling	6
2008/Fall	GEOS212-1	Introduction to Oceanography	359
2008/Fall	GEOS212-2	Introduction to Oceanography: Honors	19
2008/Fall	GEOS397A	Teaching Geosciences	19
2008/Fall	GEOS342	Evolution of the Earth, Ocean, and Atmosphere (with P. Reiners)	14
2008/Spring	GEOS596C	South American Paleoclimate (with J. Quade)	3
2007/Fall	GEOS212	Introduction to Oceanography	379
2007/Fall	GEOS397A	Teaching Geosciences	15
2007/Spring	GEOS596H	Modes of Climate Variability	7
2006/Fall	GEOS212	Introduction to Oceanography (with R. Richardson)	150

**Classes for Osher Lifelong Learning Institute at the University of Arizona (OLLI-UA, <https://olli.arizona.edu>)**

Fall 2024 (Green Valley, 6 Sessions) – “The Pale Blue Dot: Why Change is Happening”

2 hours per session to 25-30 students)

**Lectures for other courses**

Orogenic Systems (S. Beck, GEOS527, UA, Spring 2015)

Earth: Birth to Death (J. Kapp, GEOS170A1, UA, Fall 2014)

Contemporary Earth System Science (Reiners, GEOS195K, UA, Fall 2009)

Global and Regional Climatology (Hirschboeck, GEOG 431/531, UA, Spring 2009, 2010)

The Climate System (Woodhouse, GEOG530, UA, Fall 2008, 2009)

Mesoscale Modeling (Castro, ATM558, UA, Spring 2008)

Planetary Science (Swindle, PTYS195a, UA, Spring 2008)

Introductory Oceanography (Neuer, BIO/GLG325, ASU, Spring 2008)

Climate Change and the New IPCC Report (Brazel, BIO591, ASU, Spring 2008)

**Current and Former Postdoctoral Advisees (listed chronologically):** Dr. Benjamin Bronselaer (2016-2019, with co-advisor Dr. Michael Winton, NOAA/GFDL), Dr. Rebecca Beadling (2020, with co-advisor Dr. John Krasting, NOAA/GFDL), Dr. Katherine Turner (2022-present, with co-advisor Dr. John Krasting,

NOAA/GFDL)

**Current and Former Graduate Advisees (listed chronologically):** Stephanie McAfee (PhD 2009, now an Associate Professor at U. Nevada – Reno, and Nevada State Climatologist), Alison Drain (MS 2009, now with Acutane, Austin, TX), Sarah Dasher (MS 2012, now a Test Prep Consultant, Wichita Falls, TX), Sophie Everatt (MS 2012, now at Yoga of Sausalito and with Stewards of the Coast and Redwoods), Juan Lora (LPL, PhD 2014, now an Assistant Professor at Yale), Zachary Naiman (PhD 2018, now with Amazon Web Services), Rebecca Beadling (PhD 2020, now an Assistant Professor at Temple University), Stan Swierczek (Mathematics, PhD 2021, now in Industry), Marta Sowinski (Mathematics, PhD, current), Holly Thomas (PhD, current)

**Current and Former Graduate Students (Committee Member, listed chronologically):** Toby Ault (PhD 2011), Jessica Conroy (PhD 2011), Adam Csank (PhD 2011), Nick McKay (PhD 2012), Jeremy Weiss (PhD 2012), Sarah Ivory (PhD 2013), Diane Thompson (PhD 2013), Michael Brunke (PhD 2015, HAS), April Chiriboga (PhD 2015), Zack Guido (PhD 2015), Ching-Chih (Ginger) Chang (PhD 2016), Sarah Treube (PhD 2016), Paul Goddard (PhD 2017), Stephen (Brewster) Malevich (PhD 2017), Nicollette Mitchell (MS 2017), Cheryl Peyser (PhD 2018), Nancy Williams (PhD, 2018, U Oregon), Xianyu Tan (PhD 2018, LPL), Gloria Jimenez (PhD 2018), Connor Nolan (PhD, 2019), Jack Eyre (PhD, 2020, HAS), Alexander Audet (PhD, 2021, U Maine), Kelly Smith (PhD, current, TLS), Tuma Kamulali (PhD, current)

**Current and Former Undergraduate Advisees (\* indicates UA/NASA Space Grant Fellowships, listed chronologically, names in bold are participants in the C2C-REU Program):** \*Hannah Zankowski (BS 2011 Math/Physics, now an Assistant Professor at the University of Wisconsin – Madison), \*Kiley Yeakel (BS 2012 ChEE, now a Spacecraft Systems Engineer at the John’s Hopkins University Applied Physics Laboratory), \*Angelica Alvarez (BS/BA 2015 Neuroscience & Cognitive Science, now a postgraduate associate at the Yale School of Medicine), \*Jessica Rudd (BS 2014, Geosciences, now with US Army Corps of Engineers, Concord, MA), Hala Alwagdani (BS 2016, now with Aramco), \*Jordan Abell (BS 2016 Geosciences; now Assistant Professor, Lehigh University), \*John (Jack) Johnson (BS 2017), Clare DeCelles (2017, now with Freeport-McMoRan), Amarjiit Pandde (2018-2020), Brandon Bui (2018-2021, now with Raytheon), McKenzie Jones (2019-2021), Brenna Bourque (2019-2020), Olga Alkhimenok (2019-2022), Clara Jauregui (2019-2021), \*Caitlin Encinas (2020-2021), Eleanor McDonough (2021-2022), George Fabian (2022-2023), Tye Hawkins (2022-2023), **Justice Gonzales** (2024)

## SERVICE

### National/International:

- 2025 – Facilitator**, Scialog: Neurobiology and Changing Ecosystems, Research Corporation for Science Advancement, Tucson, AZ (**Invited**)
- 2023 – Presentation**, Operational Oceanography White Paper, NOAA Science Advisory Board, Silver Spring, MD
- 2023 – Briefing to the National Institute of Water and Atmosphere Research (NIWA) Board of Directors**, Hamilton, New Zealand
- 2023 – Co-Convenor**, Physical and Biogeochemical Ocean and Ice Processes in the Southern Ocean: Observations, State Estimation and Modeling, Session at the 28<sup>th</sup> IUGG General Assembly, Berlin, Germany
- 2023 – Briefing to Climate Program Office (NOAA)**, Zoom
- 2022 – Briefing to Weather, Water, Climate Board (NOAA)**, Zoom
- 2020 – Co-Convenor**, Processes Affecting Air-Sea Exchange and the Biogeochemistry of the Upper Ocean, Session at the Ocean Sciences Meeting, San Diego, CA
- 2019 – Co-Convenor**, Integrated Understanding of Global Carbon and Other Biogeochemical Cycles and Their Feedbacks in CMIP6, Session at the AGU Fall Meeting, San Francisco, CA
- 2018 – Co-Convenor**, New Frontiers in the Southern Ocean’s Role in Climate: Recent Developments in Physical and Biogeochemical Observations and Modeling, Session at the AGU Fall Meeting, Washington, D.C.
- 2018 – Co-Convenor**, Modeling the Climate System at High Resolution, Session at the Ocean Sciences Meeting, Portland, OR.

- 2017 – Chair, Organizer, #GreatAntarcticClimateHack**, sponsored by SCAR, NSF, SOCCOM, Scripps Institution of Oceanography, La Jolla, CA
- 2016 – Co-Convener**, Physical and Biogeochemical Processes in the Southern Ocean: Observations, State Estimation and Modeling, Session at the Ocean Sciences Meeting, New Orleans, LA
- 2014 – Chair**, Workshop Organizing Committee, Ocean’s Carbon and Heat Uptake: Uncertainties and Metrics, sponsored by US CLIVAR and OCB, San Francisco, CA
- 2014 – Co-Convener**, The Southern Ocean and Its Role in the Climate System: Observations and Modeling of Physical and Biogeochemical Processes – 2014 Ocean Sciences Meeting, Honolulu, HI (<http://www.sgmeet.com/osm2014/sessionschedule.asp?SessionID=072>)
- 2013 – Panelist**, GFDL Science Symposium, Princeton, NJ (<http://www.gfdl.noaa.gov/2013-gfdl-science-symposium>)
- 2012 – Co-Convener**, The Southern Ocean and Its Role in the Climate System, Session at the Ocean Sciences Meeting, Salt Lake City, UT
- 2011 – EPA STAR Graduate Fellowship Review Panel**, Washington D.C.
- 2011 – NASA Climate & Biological Response: Research and Applications Review Panel**, Washington D.C.
- 2010 – NSF Arctic System Science Program Review Panel**, Washington D.C.
- 2009 – Co-Convener**, New Frontiers in Southern Ocean Biogeochemistry and Ecosystem Research, Ocean Carbon and Biogeochemistry Scoping Workshop, Princeton, NJ
- 2008 – World Wildlife Fund, Antarctic Climate Change Focal Project: Impacts Of 2°C Global Warming on Southern Ocean Cetaceans** (With Dr. Cynthia Tynan, WHOI): presented to International Whaling Commission 60<sup>th</sup> Annual Meeting, Santiago, Chile
- 2008 – Early Career Geoscience Faculty: Teaching, Research, and Managing Your Career Workshop**, College of William and Mary, Williamsburg, VA
- 2008 – World Wildlife Fund, Antarctic Climate Change Focal Project: Impacts Of 2°C Global Warming on Antarctic Penguins** (With Dr. David Ainley of H.T. Harvey and Assoc.)
- 2007 – Member**, National Research Council for the **National Academy of Science**, Committee to Review the “U.S. Climate Change Science Program’s Synthesis and Assessment Product 3.2, Climate Projections Based on Emission Scenarios for Long-lived and Short-lived Radiatively Active Gases and Aerosols”.
- 2007 – Member**, National Research Council for the **National Academy of Science**, Review Committee for “Review of the U.S. Climate Change Science Program’s Draft Synthesis and Assessment Product 1.3, Re-analyses of Historical Climate Data and Implications for Attribution”
- 2007 – Ocean Carbon and Biogeochemistry Scoping Workshop on Ocean Acidification Research**, Scripps Institution of Oceanography, La Jolla, CA
- 2006-present – Biospheric Processes Team**, Geophysical Fluid Dynamics Laboratory, National Oceanic and Atmospheric Administration
- 2006 – Amicus brief** to the United States Supreme Court (Massachusetts vs. the EPA) (PDF at [https://www.nrdc.org/sites/default/files/glo\\_06083101g.pdf](https://www.nrdc.org/sites/default/files/glo_06083101g.pdf))

#### University of Arizona:

- 2024 – Member**, UArizona Presidential Search Advisory Committee, Arizona Board of Regents (ABOR); Introduction of the new UA President, Suresh Garimella: <https://www.youtube.com/watch?v=aBAgnK7TsD8>
- 2024 – Panelist**, UA School of Mining and Mineral Resources: Arizona Critical Minerals Symposium (<https://mining.arizona.edu/news/critical-minerals-symposium-highlights-path-domestic-supply-chain-security-and-economic-growth>)
- 2023-2024 – Co-Chair of the Search Committee**, UA Provost and Senior VP for Academic Affairs
- 2023 – Keynote Speaker**, UA AdFAIR – A Celebration of Advertising
- 2022 – Keynote Speaker**, University of Arizona College of Science Honors Winter Convocation
- 2021-present; 2012-2016 – Chair**, University of Arizona Research Computing Governance Committee (RCGC)
- 2020 – Panelist**, World Ocean Day panel, Biosphere 2 (Zoom)
- 2020-present – Executive Committee Member**, University of Arizona Space Institute (UASI, [space.arizona.edu](https://space.arizona.edu))
- 2020 – Member**, LPL Director Search Committee
- 2020 – Member**, Geoscience/Planetary BS Committee

- 2019 – Invited Speaker**, “Leading Change: Donor Event”, sponsored by the University of Arizona Development Program
- 2019 – Member**, University Fellows Award Review Committee: Physical Sciences, Mathematics and Computer Science Review Committee
- 2019 – Member**, Senior Vice-President for Research and Innovation Search Committee
- 2018 – Member**, Dean, College of Medicine Search Committee
- 2018 – Strategic Planning for Research: Climate and the Environment**
- 2018 – Co-Founder, Member**, College of Science: Women in STEM Leadership
- 2016, 2017 – Invited speaker**, “Commencement: Final Office Hours”, University of Arizona
- 2016 – Reviewer**, NSF Science and Technology Center Applications, Office of the Vice President for Research
- 2016 – Member**, Chief Information Officer Search Committee
- 2015-present – Senator-at-Large**, Faculty Senate
- 2015-2019 – Member**, College of Engineering Faculty Research Council
- 2015 – Briefing to the National Science Foundation Director (Dr. France Cordova)**, Tucson, AZ
- 2014-2015 – Co-Chair**, University Cluster Hire Review Committee for “Big Data and Informatics”
- 2014-present – Faculty Marshal**, Commencement
- 2014 – Briefing to the College of Science Dean's Board of Advisors**, Tucson, AZ
- 2014 – Reviewer**, Faculty Small Grants Program, Office of the Vice President for Research
- 2013 – Keynote Speaker**, University of Arizona College of Science Honors Winter Convocation
- 2013-present – Faculty Mentor**, American Indian Science and Engineering Society (AISES) Geoscience Outreach Program
- 2012-present – Member**, University of Arizona Institute of the Environment Faculty Advisory Committee
- 2011 – Reviewer**, Packard Fellowship Applications, Office of the Vice President for Research
- 2010-2012 – Faculty Representative (College of Science)**, Interdisciplinary Studies Degree Committee
- 2010-2012 – Chair**, High-Performance Computing (HPC) Technical Refresh Committee
- 2008-present – Executive Committee member**, University of Arizona Climate Dynamics and Hydrometeorology Center
- 2008 – Reviewer**, Faculty Small Grants Program, Office of the Vice Provost for Research
- 2007-2010 – Member**, High-Performance Computing (HPC) Allocation Committee

**Reviewer:** *Nature*, *Nature Geosciences*, *Nature Climate Change*, *J. Climate*, *J. Physical Oceanography*, *Geophysical Research Letters*, *Proceedings of the National Academy of Sciences*, *Paleoceanography*, *J. Geophysical Research*, *Global Biogeochemical Cycles*, *Climate Dynamics*, *Climate Change Letters*, *Geological Society of America Bulletin*

**Review Panels:** *NASA*, *NSF*, *EPA*, *Marsden Foundation*

## SCHOLARLY PRESENTATIONS / MEETINGS

- 12/2024 University of Maine, Climate Change Institute, Orono, ME
- 11/2024 Australian Antarctic Research Conference, Hobart, Tasmania
- 7/2024 11<sup>th</sup> International Carbon Dioxide Conference (ICDC11), Manaus, Brazil (poster, “CarbonWatch-NZ: tracking carbon emissions in and uptake in New Zealand’s forests, grasslands, and urban environments”)
- 6/2024 National Science Foundation: Division of Ocean Sciences, “Frontiers in Ocean Sciences Symposium”, **Invited Speaker**, <https://www.nsf.gov/geo/oce/updates/frontiers-ocean-sciences-symposium>
- 4/2024 Scripps Institution of Oceanography, “Observing the Dynamics of the Southern Ocean: Present Challenges and Future Strategies”, La Jolla, CA, **Invited**
- 4/2024 Ludwick Lecture, Old Dominion University, Ocean & Earth Sciences Norfolk, VA, **Invited** (<https://www.odu.edu/ocean-earth-sciences/seminars>)
- 3/2024 British Antarctic Survey, “Antarctic Coastal Winds: recent advances and future research priorities”, Zoom
- 3/2024 UCAR-Workshop Confronting ESM Trends, Boulder, Zoom
- 2/2024 Ocean Sciences Meeting, New Orleans, LA
- 8/2023 2023 Southern Ocean Observing System Symposium, Hobart, Australia, **Invited**



- 7/2023 28<sup>th</sup> IUGG General Assembly, Berlin, Germany
- 6/2023 National Institute of Water and Atmosphere Research, Wellington, New Zealand, **Invited**
- 4/2023 Pacific States Marine Fisheries Commission: Western Groundfish Conference, Juneau, AK (Zoom), **Invited Keynote** (<https://groundfish.psmfc.org/index.php/conferences/2023wgc/>)
- 4/2023 Department of Earth System Science, UC Irvine, Irvine, CA, **Invited**, (<https://www.ess.uci.edu/events/1144>) (Link to Video: <https://www.youtube.com/watch?v=byKApeYuUs8>)
- 1/2023 Lunar & Planetary Lab Colloquium, University of Arizona, Tucson, AZ, **Invited**, (<https://www.lpl.arizona.edu/calendar/lpl-colloquium-dr-joellen-russell>)
- 12/2022 Australian Antarctic Program Partnership 2022 Workshop, Zoom, **Invited** (<https://aappartnership.org.au/wp-content/uploads/2022/11/AAPP-Workshop-Program-5-12-2022.pdf>)
- 9/2022 British Antarctic Survey, AntClimNow Workshop, Cambridge, UK, **Invited** (<https://www.scar.org/scar-news/antclimnow-news/antclimnow-workshop-report/>)
- 5/2022 The Royal Society, “Heat and Carbon Uptake in the Southern Ocean: the state of the art and future priorities”, London, UK, **Invited**, ([Link to Video](#))
- 4/2022 Rutgers Distinguished Lecturer, Department of Marine and Coastal Sciences, Rutgers University, Zoom, **Invited**, (<https://marine.rutgers.edu/seminars/seminars-spring-2022/>)
- 3/2022 Stanford Linear Accelerator Center, SLAC Colloquium, Zoom, **Invited**, ([Link to Video](#))
- 3/2022 Ocean Sciences Meeting (2022), Zoom
- 2/2022 Northern Arizona University, School of Earth and Sustainability Seminar, Zoom, **Invited**, ([Link to Video](#), at ~19 minute mark)
- 2/2022 ESA Ocean Carbon From Space, Zoom, **Invited**, <https://oceancarbonfromspace2022.esa.int/>
- 1/2022 Stanford University, Guest lecture, CS320, Zoom, **Invited**
- 9/2021 NASA Innovative Advanced Concepts (NIAC), Zoom, **Invited Keynote**, <https://www.nasa.gov/content/niac-symposium>
- 9/2021 NASA Global Modeling and Assimilation Office Seminar, Zoom, **Invited**, [https://gmao.gsfc.nasa.gov/seminars\\_workshops/archive/](https://gmao.gsfc.nasa.gov/seminars_workshops/archive/)
- 9/2021 Observing Air-Sea Interactions Strategy (OASIS), OASIS for a Predicted Ocean, Ocean Shots, Zoom, **Invited Poster**, <https://airseaobs.org/oasis-for-a-predicted-ocean>
- 9/2021 National Science Foundation “Observing the Oceans” Webinar, Zoom, **Invited**, <https://www.geotraces.org/observing-the-oceans-nsf-on-line-webinar-for-the-general-public/>
- 9/2021 Global Ocean Biogeochemistry Array Annual Meeting, Zoom, **Invited**
- 7/2021 IAMAS-IACS-IAPSO Joint Assembly 2021, Zoom, **Invited** (<https://www.youtube.com/watch?v=yPFq4LtzOWo>)
- 5/2021 [Global Biogeochemical – Argo Fleet: Knowledge to Action](#) Workshop, co-sponsored by the [G7 Future of the Seas and Oceans Initiative](#), Zoom, **Invited**, (<https://www.youtube.com/watch?v=CqFN5JPUqyk>)
- 4/2021 University of Arizona, Humanities Seminars, “[Climate Change: Earth, Sea, and Sky](#)”, Zoom, **Invited**
- 2/2021 NASEM US Ocean Decade, “Ocean Shots”, Zoom, **Invited**
- 12/2020 Woods Hole Oceanographic Institution, Applied Ocean Physics & Engineering Seminar, Zoom, **Invited**
- 12/2020 2020 AGU Fall Meeting, SY046-03, Zoom, **Invited**
- 11/2020 Department of Geosciences Colloquium, University of Arizona, Zoom, (<https://www.youtube.com/watch?v=7GY5KXKU7jk>)
- 5/2020 FAFMIP Annual Meeting, Zoom, **Invited**
- 2/2020 2020 Ocean Sciences Meeting, San Diego, CA (poster)
- 12/2019 2019 AGU Fall Meeting, San Francisco, CA
- 8/2019 Chapman Conference: Understanding Carbon and Climate Feedbacks, San Diego, CA (**Invited Poster**)
- 7/2019 27<sup>th</sup> IUGG General Assembly, Montréal, Canada, **Invited**
- 6/2019 AntClim<sup>21</sup>’s Workshop on CMIP6 21<sup>st</sup> century projections and predictions for Antarctica and the Southern Ocean, British Antarctic Survey, Cambridge, UK, **Invited**
- 4/2019 Rosenstiel School of Marine and Atmospheric Science Colloquium, Miami, FL, **Invited**
- 4/2019 Flux-anomaly-forced model intercomparison project (FAFMIP) Workshop, University of Reading, Reading, UK, **Invited**

- 11/2018 Australian Biogeochemical-Argo Workshop, Institute for Marine and Antarctic Studies, University of Tasmania, Hobart, Australia, **Invited**
- 11/2018 NOAA Climate Program Office / Earth System Science & Modeling Workshop and Annual ESSM Council Meeting, Silver Spring, MD, **Invited**
- 10/2018 University of Arizona, Hydrology and Atmospheric Sciences Colloquium, Tucson, AZ, **Invited**
- 9/2018 Old Dominion University, Department of Ocean, Earth & Atmospheric Sciences, Norfolk, VA, **Invited**
- 7/2018 Global Ocean Summit, Qingdao, China, **Invited**
- 6/2018 POLAR 2018 & SCAR Open Science Conference, Davos, Switzerland, **Invited**
- 2/2018 2018 Ocean Sciences Meeting, Portland, OR (poster)
- 1/2018 Hominid Sites and Paleolakes Drilling Project (HSPDP) Annual Meeting, New Brunswick, NJ
- 11/2017 University of Maine, School of Earth and Climate Science, Orono, ME, **Invited**
- 9/2017 Ross Sea Regional Workshop, Shanghai, China, **Invited**
- 8/2017 IAPSO Good Hope For Earth Sciences Joint Assembly, Capetown, South Africa
- 9/2016 CLIVAR Open Science Conference 2016, Qingdao, China, **Invited**
- 8/2016 XXXIV SCAR Biennial Meeting and 2016 Open Science Conference, Kuala Lumpur, Malaysia
- 6/2016 Earth System Science: The Ronald J. Stouffer Symposium, GFDL, Princeton, NJ, **Invited**
- 5/2016 4<sup>th</sup> International Symposium on the Ocean in a High-CO<sub>2</sub> World, Hobart, Australia
- 4/2016 European Geosciences Union General Assembly 2016, Vienna, Austria, **Invited**
- 4/2016 Sustained Observations for Carbon Cycle Science and Decision Support, Boulder, CO, **Invited**
- 4/2016 National Academy of Sciences, Board on Atmospheric Sciences and Climate Spring 2016 Meeting, Washington, DC, **Invited**
- 3/2016 Modeling a Living Planet, A symposium in honor of Jorge L. Sarmiento, Princeton, NJ, **Invited**
- 2/2016 NOAA OSM Ocean Carbon PI Meeting, New Orleans, LA, **Invited**
- 2/2016 2016 Ocean Sciences Meeting, New Orleans, LA
- 2/2016 Life Sciences Café, School of Life Sciences, Arizona State University, Tempe, AZ, **Invited**
- 2/2016 University of Texas Institute of Geophysics, Austin, TX, **Invited**
- 1/2016 Planning a Global BioGeoChemical-Argo Network Workshop, Villefranche-sur-mer, France, **Invited**
- 11/2015 STEPPE Workshop: Increased precipitation extremes in greenhouse conditions: An integrated paleoclimate and anthropogenic perspective, Boulder, CO, **Invited**
- 11/2015 GFDL Diamond Anniversary Symposium, Princeton, NJ, **Invited**
- 9/2015 CLIVAR/CliC/SCAR Southern Ocean Region Panel, joint with SOOS/WCRP/ESA Workshop on Southern Ocean air-sea fluxes, Frascati, Italy, **Invited**
- 9/2015 GO-SHIP/Argo/IOCCP Conference 2015: Sustained ocean observing for the next decade, Galway, Ireland
- 8/2015 2015 US CLIVAR Summit, Tucson, AZ, **Invited**
- 7/2015 Ocean Carbon and Biogeochemistry Summer Workshop, Woods Hole, MA, **Invited**
- 6/2015 Institute for Marine and Antarctic Studies, University of Tasmania, Australia, Hobart, Australia, **Invited**
- 6/2015 Southern Ocean Observing System Scientific Planning Meeting: Implementing a Southern Ocean Observing System, Hobart, Australia, **Invited**
- 2/2015 Southern Ocean Dynamics and Biogeochemistry Workshop, California Institute of Technology, Pasadena, CA, **Invited**
- 12/2014 AGU Fall Meeting, San Francisco, CA (Poster)
- 12/2014 A Joint US Climate Variability and Predictability (CLIVAR)—Ocean Carbon Biogeochemistry (OCB) Workshop on “Ocean’s Carbon and Heat Uptake: Uncertainties and Metrics”, San Francisco, CA, **Invited**
- 9/2014 Bolin Centre for Climate Research, Stockholm University, Stockholm, Sweden, **Invited**
- 8/2014 XXXIII SCAR Biennial Meeting and 2014 Open Science Conference, Auckland, New Zealand, **Invited**
- 7/2014 Ocean Carbon & Biogeochemistry Summer Science Workshop, Woods Hole, MA, **Invited**
- 7/2014 2014 Pan-CLIVAR Meeting, The Hague, The Netherlands, **Invited**
- 7/2014 2014 US CLIVAR Summit, Denver, CO, **Invited**
- 2/2014 Ocean Sciences Meeting, Honolulu, HI, **Invited**
- 12/2013 AGU Fall Meeting, San Francisco, CA (Poster)
- 11/2013 Lunar & Planetary Lab (University of Arizona) Fall Lecture Series, Tucson, AZ, **Invited** (Recording at: <https://arizona.hosted.panopto.com/Panopto/Pages/Embed.aspx?id=c8ffa4a2-8df7-45ae-b88d-1df5f8c00a33>)

- 9/2013 SCAR Workshop on “Quantification of Antarctic Climate Variability”, Castine, ME, **Invited**
- 7/2013 Ocean Carbon and Biogeochemistry Summer Workshop, Woods Hole, MA, **Invited**
- 4/2013 Rosenstiel School of Marine and Atmospheric Science, Miami, FL, **Invited**
- 2/2013 Atmosphere and Oceanic Sciences, Princeton University, Princeton, NJ, **Invited**
- 2/2013 US Argo Science and Implementation Working Group Meeting, Monterrey, CA, **Invited**
- 1/2013 Winter Breeding Institute, Tucson, AZ, **Invited**
- 12/2012 AGU Fall Meeting, San Francisco, CA, **Invited**
- 10/2012 GeoPRISMS Planning Workshop, Morristown, NJ, **Invited**
- 9/2012 Department of Geosciences Colloquium, University of Arizona, Tucson, AZ, **Invited**
- 5/2012 European Science Foundation, Obergurgl, Austria, **Invited**
- 3/2012 Ross Sea Workshop, San Diego, CA, **Invited**
- 2/2012 Ocean Sciences Meeting, Salt Lake City, UT
- 12/2011 AGU Fall Meeting, San Francisco, CA
- 10/2011 Department of Earth and Environmental Science, University of Pennsylvania, Philadelphia, PA, **Invited**
- 7/2011 Atmospheric and Oceanic Sciences/Cooperative Institute for Climate Science, Princeton University, Princeton, NJ, **Invited**
- 6/2010 Deep Ocean Workshop: Observed and Model-Simulated Property Changes in the Deep Ocean of the Southern Hemisphere, Hobart, Australia, **Invited**
- 2/2010 Ocean Sciences Meeting, Portland, OR, **Invited**
- 11/2009 Greenaccord, VII International Media Forum on the Protection of Nature, Viterbo, Italy, **Invited**
- 9/2009 Department of Geological Sciences, Brigham Young University, Provo, UT, **Invited**
- 7/2009 Global Sustainability Workshop, Santa Fe Institute, Santa Fe, NM, **Invited**
- 5/2009 International Marine Conservation Congress, Washington, DC, **Invited**
- 4/2009 SOLS Seminar Series, School of Life Sciences, Arizona State University, Tempe, AZ, **Invited**
- 2/2009 CLIVAR/CliC/SCAR Southern Ocean Region Implementation Panel 5<sup>th</sup> Meeting, Sydney Australia, **Invited**
- 2/2009 9<sup>th</sup> International Conference on Southern Hemisphere Meteorology and Oceanography, Melbourne, Australia, **Invited Keynote**
- 1/2009 ASLO Aquatic Sciences Meeting, Nice, France, **Invited Plenary**
- 12/2008 AGU Fall Meeting, San Francisco, CA
- 8/2008 IDC HPC User Forum, Tucson, AZ, **Invited**
- 5/2008 ExxonMobil, Houston, TX, **Invited**
- 4/2008 Department of Geosciences Colloquium, Tucson, AZ
- 2/2008 Ocean Sciences Meeting, Orlando, FL
- 10/2007 Southern Ocean Physical Oceanography and Cryosphere Linkages (SOPHOCLES) Meeting, Bergen, Norway, **Invited**
- 9/2007 National Weather Service, Great Falls, MT, **Invited**
- 9/2007 Rice University, Houston, TX, **Invited**
- 9/2007 ExxonMobil, Houston, TX, **Invited**
- 7/2007 NOAA Global Carbon Cycle Principal Investigators Meeting, Silver Spring, MD, **Invited**
- 6/2007 NOAA Southern Ocean Climate Process Team Workshop, Princeton, NJ, **Invited**
- 5/2007 Arizona Hydrological Society, Tucson, AZ, **Invited**
- 5/2007 Surface pCO<sub>2</sub> and Ocean Vulnerabilities Workshop, IOC/UNESCO, Paris, France, **Invited**
- 3/2007 Gordon Research Conference, Ventura, CA, **Invited Keynote**
- 10/2006 Geophysical Fluid Dynamics Laboratory, Princeton, NJ, **Invited**
- 9/2006 16<sup>th</sup> Annual V.M. Goldschmidt Conference, Melbourne, Australia, **Invited**
- 7/2006 Ocean Carbon Biogeochemistry Workgroup, Woods Hole Oceanographic Institution, Woods Hole, MA, **Invited**
- 7/2006 NOAA Office of Climate Observation - Annual System Review, Silver Springs, MD, **Invited**
- 4/2006 Atmospheric Science Seminar, University of Arizona, Tucson, AZ, **Invited**
- 2/2006 Ocean Sciences Meeting, Honolulu, HI

## OUTREACH ORGANIZATIONS

### 2020-present Founding Member, Science Moms ([www.sciencemoms.com](http://www.sciencemoms.com))

- A Climate Scientist's Letter to Her Kids: <https://www.youtube.com/watch?v=Km63QNaEwuE>
- What Do Heat Waves Have To Do With Climate Change?: <https://www.youtube.com/watch?v=QFd28yQvxpU>
- What To Do U: The Science Moms' To-Do List: [https://www.youtube.com/watch?v=Jq-9l-Kd\\_GE](https://www.youtube.com/watch?v=Jq-9l-Kd_GE)

### OUTREACH/MEDIA (Events, Invited Presentations, Broadcasts, Interviews, Commentary)

- 11/2024 [Freeport/McMoRan](#) Brown Bag Colloquium, **Invited**, Zoom
- 10/2024 12News(Phoenix), "See how Biosphere 2 near Tucson studies environments across the globe", <https://www.12news.com/article/news/local/arizona/biosphere-2-near-tucson-arizona-studies-environments-across-the-world/75-fa92ad5b-a184-4af4-8a03-0f32520f2304>, (Video)
- 10/2024 12News(Phoenix), "Why are summers getting hotter and longer?", <https://www.12news.com/article/weather/why-are-summer-getting-hotter-and-longer-weather-explained/75-0342ed88-ea2a-4dae-9e8b-890bf87e513e>, (Video)
- 9/2024 The 19<sup>th</sup>, "These women are trying to humanize the climate crisis", <https://19thnews.org/2024/09/extreme-weather-survivors-humanize-climate-crisis/>
- 8/2024 National Science Foundation: Division of Ocean Sciences, "Frontiers in Ocean Sciences Symposium", **Invited**, <https://www.nsf.gov/geo/occe/updates/frontiers-ocean-sciences-symposium>
- 8/2024 WTOL-11(Toledo), "Cool for school: Lower temperatures play a part in higher test scores, experts say", <https://www.wtol.com/article/weather/cool-school-lower-temperatures-play-a-part-in-higher-test-scores-experts-say/512-4e4d4bcd-4237-4c8e-bd16-bf71daaf5f54>
- 8/2024 Arizona Board of Regents, "University of Arizona stakeholders express their excitement for Dr. Suresh Garimella", <https://www.azregents.edu/news-releases/university-arizona-stakeholders-express-their-excitement-dr-suresh-garimella>
- 7/2024 Politico E&E News, "Ads about climate and kids air in swing states", <https://www.eenews.net/articles/ads-about-climate-and-kids-air-in-swing-states/>
- 7/2024 National Public Radio, "Across the U.S., heat keeps breaking records", <https://www.opb.org/article/2024/07/11/we-re-screaming-into-the-void-across-the-u-s-heat-keeps-breaking-records/>
- 7/2024 Associated Press, "Things to know about heat deaths as a dangerously hot summer shapes up in the western US", <https://www.caprado.org/articles/2024/07/16/things-to-know-about-heat-deaths-as-a-dangerously-hot-summer-shapes-up-in-the-western-us/>
- 7/2024 Bulletin of the Atomic Scientists, "The fly in the Milanković ointment"; (<https://thebulletin.org/2024/07/with-new-data-researchers-attempt-to-overturn-long-held-theory-on-ice-ages-and-climate-change/>)
- 6/2024 National Public Radio, Morning Edition, "What is a Heat Dome", <https://www.npr.org/2024/06/06/nx-s1-4992288/heat-dome-high-temperatures-western-us>
- 6/2024 UA News, "UArizona oceanographer shares expertise during National Ocean Month", <https://news.arizona.edu/news/uarizona-oceanographer-shares-expertise-during-national-ocean-month>
- 6/2024 Arizona Science, "Seeking evidence of a climate change turnaround", <https://www.azpm.org/s/98878-seeking-evidence-of-a-climate-change-turnaround/> (Radio)
- 6/2024 AZPM, "UA search committee finalizes evaluation criteria for its next president", <https://news.azpm.org/p/news-topical-edu/2024/6/17/220664-ua-search-committee-finalizes-evaluation-criteria-for-its-next-president/>
- 5/2024 "Talking Climate with Katherine Hayhoe", <https://www.talkingclimate.ca/p/the-economy-is-up-emissions-are-down>
- 4/2024 12News(Phoenix), "Extreme heat and weather events predicted to get worse", <https://www.12news.com/article/news/local/valley/arizona-scientist-inspires-moms-to-save-planet-protect-kids-from-extreme-weather/75-bfdc8a5e-8b3f-411d-9360-18a510d78275>
- 4/2024 12News(Phoenix), "Arizona professor working with Science Moms to raise awareness about extreme weather events", <https://www.12news.com/video/weather/arizona-professor-working-with-science-moms-to-raise-awareness-about-extreme-weather-events/75-c186512c-e4ba-4673-aecf-718beedcbe6a>
- 4/2024 AZ Central, "UA's search for its next president is underway. Here's what students, faculty want to see", <https://www.azcentral.com/story/news/education/2024/04/26/who-will-be-new-university-of-arizona-president/73444677007/>



- 4/2024 UA News, “Joseph Glover selected as UArizona provost”, <https://news.arizona.edu/news/joseph-glover-selected-uarizona-provost>
- 4/2024 KPRC-2 Houston, “Protecting kids from extreme weather”, <https://www.youtube.com/watch?v=vu3agMkWw3A>
- 4/2024 UA Osher Lifelong Learning Institute (Tucson), **Invited** (<https://www.oli.arizona.edu/>)
- 3/2024 UA Osher Lifelong Learning Institute (Green Valley), **Invited** (<https://www.oli.arizona.edu/ShoppingCart.aspx?com=detailview&iid=4836#&gid=1&pid=1>)
- 11/2023 Newsweek, “What Will Happen to Las Vegas if Lake Mead Water Level Gets Too Low?”, <https://www.newsweek.com/what-will-happen-las-vegas-if-lake-mead-water-level-gets-too-low-1773985>
- 10/2023 AZ National Organization of Women, (Phoenix Chapter), Zoom, **Invited**
- 6/2023 Science and Entertainment Exchange & Television Academy, “Changing Our Climate Future”, Los Angeles, CA, **Keynote**
- 5/2023 AZ National Organization of Women State Conference, Tucson, AZ, **Invited** (<https://aznow.org/>)
- 4/2023 Public News Service, “Expert: AZ’s Dirty Energy Negatively Impacts Kids, Federal Dollars Could Help”; <https://www.publicnewsservice.org/2023-03-30/environment/expert-azs-dirty-energy-negatively-impacts-kids-federal-dollars-could-help/a83755-1>
- 4/2023 KGUN (Tucson), “Cleanversations”; <https://www.kgun9.com/spiritofsoaz/local-researcher-and-science-mom-encourages-families-to-talk-about-clean-energy-during-earth-month>
- 4/2023 Fox43 News (PA), “Cleanversations”; <https://www.fox43.com/article/weather/cleanversations-community-earth-month-clean-energy-sustainability/521-6c8bdb0d-0966-44cf-b18b-7fc6849b19c6>
- 3/2023 SXSW (South by Southwest), “Climate Data is Power: To the People”, w/ Dr. Beth Tillman, University of Arizona “Wonder House”, Austin, TX (Recording: [https://www.youtube.com/watch?v=E2lrBK\\_AiIQ](https://www.youtube.com/watch?v=E2lrBK_AiIQ); Speaker Bio: <https://schedule.sxsw.com/2023/speakers/2078500>)
- 3/2023 YWCA Southern Arizona, 34<sup>th</sup> Annual Women’s Leadership Conference, Tucson, AZ, **Keynote** (<https://www.ywcatuson.org/cause/equipping-leaders>)
- 2/2023 Terrible, Thanks for Asking, “Should I Have Kids”, Interview, Zoom (<https://ttfa.org/episodes/should-i-have-kids>)
- 1/2023 Arizona Alumni Magazine, “UArizona Professor Confronts Climate Change: Wonder Unites Us”, (<https://alumni.arizona.edu/arizona-magazine/winter-2023/uarizona-professor-confronts-climate-change>)
- 12/2022 Foresight – Deep into the Future Planet, Ep#05, “Carbon: A matter of budget” (<https://www.climateforesight.eu/podcast/a-matter-of-budget-ep-05/>)
- 12/2022 Medill Reports, “Alaskan memories inspire climate change work”, (<https://news.medill.northwestern.edu/chicago/alaskan-memories-inspire-climate-change-work/>)
- 11/2022 Science and Entertainment Exchange Writer’s Retreat, National Academy of Sciences, Carlsbad, CA (<http://scienceandentertainmentexchange.org/>)
- 11/2022. Tenwest Impact Festival, “What To Do U: Turning Climate Facts and Concerns Into Action”, Tucson, AZ (<https://www.tenwest.com/schedule>; <https://www.youtube.com/watch?v=QQiaOI88amk>)
- 10/2022 Climate Emergencies Film Club, Speaker, ([https://lu.ma/climate\\_film\\_club](https://lu.ma/climate_film_club)), Zoom
- 10/2022 Sunsites Community Library, Speaker ([https://www.myheraldreview.com/news/cochise\\_county/noted-oceanographer-to-speak-in-sunsites/article\\_e5f46432-43f2-11ed-9c79-d7616f3eeca.html](https://www.myheraldreview.com/news/cochise_county/noted-oceanographer-to-speak-in-sunsites/article_e5f46432-43f2-11ed-9c79-d7616f3eeca.html))
- 10/2022 Biosphere 2 Podcast; “#009: Thank an Oceanographer”; (<https://biosphere2podcast.libsyn.com/009-thank-an-oceanographer-dr-joellen-russell>)
- 10/2022 Good Morning, Arizona (KTVK-TV/KPHO-TV/azfamily.com in Phoenix, AZ), Zoom
- 9/2022 One Bad Mother; Episode 473: Is It Warm In Here or Is It Climate Change? Yikes! with Kelly Corrigan & Dr. Joellen Russell (<https://maximumfun.org/episodes/one-bad-mother/episode-473-is-it-warm-in-here-or-is-it-climate-change-yikes-with-kelly-corrigan-dr-joellen-russell/>)
- 9/2022 Plucky Ladies Podcast: Interview w/ Jess Kapp; (<https://www.jesskapp.com/podcasts>), (<https://soundcloud.com/pluckyladies/joellenrussell>)
- 8/2022 Arizona Republic, “Can an ‘army of moms’ slow climate change to spare their children a fossil fuel future?”, (<https://www.azcentral.com/story/news/local/arizona-environment/2022/08/17/children-suffer-more-health-impacts-fossil-fuel-pollution/10328837002/>)

- 8/2022 Arizona Daily Star, “Hard-Nosed Arizonans Can Lead the Way on Climate Change”, ([https://tucson.com/opinion/local/local-opinion-hard-nosed-arizonans-can-lead-the-way-on-climate-change/article\\_3f3dbbbe-1429-11ed-ab29-03bc33092463.html](https://tucson.com/opinion/local/local-opinion-hard-nosed-arizonans-can-lead-the-way-on-climate-change/article_3f3dbbbe-1429-11ed-ab29-03bc33092463.html))
- 7/2022 Kelly Corrigan Wonders, “A Teenager and a Scientist Walk Into a Planet”, (<https://www.kellycorrigan.com/kelly-corrigan-wonders/emmajjoellen>)
- 5/2022 UA College of Science News, “Joellen Russell’s Appointment Extended as Thomas R. Brown Distinguished Chair in Integrative Science”, (<https://science.arizona.edu/news/2022/05/joellen-russell%E2%80%99s-appointment-extended-thomas-r-brown-distinguished-chair-integrative>)
- 4/2022 KGUN, 9 News, Tucson, (<https://www.kgun9.com/news/local-news/u-of-a-professors-unite-moms-and-scientists-to-fight-climate-change>)
- 4/2022 Kelly Clarkson Show – Earth Day (<https://www.nbc.com/the-kelly-clarkson-show/video/3-earth-day-tips-to-combat-climate-change/279493901>)
- 4/2022 Mongabay, “Robot revolution: A new real-time accounting system for ocean carbon”, (<https://news.mongabay.com/2022/04/robot-revolution-a-new-real-time-accounting-system-for-ocean-carbon/>)
- 4/2022 KPNX, 12 News, Phoenix (<https://www.12news.com/article/tech/science/environment/americas-moms-save-planet-to-do-list/75-5667757b-c73d-4cc2-a23c-7fb75e4eabf2>)
- 4/2022 Science Moms, “What To Do U” ([https://www.youtube.com/watch?v=Jq-9l-Kd\\_GE](https://www.youtube.com/watch?v=Jq-9l-Kd_GE))
- 4/2022 American Museum of Natural History, Earth and Planetary Sciences Seminar (<https://www.amnh.org/research/physical-sciences/earth-and-planetary-sciences/seminars>)
- 3/2022 UA News, “Women in Climate Change”; (<https://news.arizona.edu/story/women-climate-change-joellen-russell>)
- 2/2022 Seti Institute, “Big Picture Science: Melting Down”, (<http://bigpicture-science.org/episodes/melting-down>, Recording at: <https://chrt.fm/track/58B918/traffic.megaphone.fm/ADV3207129203.mp3?updated=1645290748>)
- 2/2022 Daily Wildcat, “Females in faculty continue to pave the way”, (<https://www.wildcat.arizona.edu/article/2022/02/n-faculty-tenured-females>)
- 2/2022 Insider.com, “Some climate change experts are choosing to have children. These are the reasons why.” (<https://www.insider.com/some-climatologists-are-choosing-to-have-children-heres-why-2022-2>)
- 1/2022 Christian Science Monitor (**Cover Story**), “Meet the scientist moms fighting climate change for their children”, (<https://www.csmonitor.com/Environment/2022/0111/Meet-the-scientist-moms-fighting-climate-change-for-their-children>)
- 1/2022 KAWC, “Arizona Edition: Science Moms Take on Climate Change” (<https://www.kawc.org/2022-01-12/arizona-edition-science-moms-take-on-climate-change>)
- 1/2022 Secret Science Club (<http://secretscienceclub.blogspot.com/2022/01/live-online-tuesday-january-11-8pm.html>) (Video: <https://www.youtube.com/watch?v=3aCD4JxZX4Q>)
- 12/2021 Cheddar News, “Science Moms Providing Tools to Help Combat Climate Misinformation” (<https://cheddar.com/media/science-moms-providing-tools-to-help-combat-climate-misinformation>)
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- 11/2015 Science Saturday Academy, Department of Geosciences, University of Arizona, Tucson, AZ



- 11/2015 Greater Tucson Leadership: Environmental Issue Day, University of Arizona, Tucson, AZ
- 4/2015 Greater Tucson Leadership: Environmental Issue Day, University of Arizona, Tucson, AZ, **Keynote**
- 4/2015 Civil Engineering and Engineering Mechanics Graduate Seminar Series, University of Arizona, Tucson, AZ
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- 3/2015 Oceans and Deserts 2015: Charting Transdisciplinary Currents in Environment and Culture within the Arts and Sciences, University of Arizona, Tucson, AZ, **Keynote**
- 2/2015 Harvard Club of Southern Arizona, Tucson, AZ
- 12/2014 Playground Games, Institute of the Environment, University of Arizona, Tucson, AZ
- 11/2014 Marine Awareness Conservation Society, University of Arizona, Tucson, AZ
- 11/2014 Teacher Symposium, Department of Geosciences, University of Arizona, Tucson, AZ, **Keynote**
- 9/2014 Odyssey Storytelling, Tucson, AZ (<https://www.youtube.com/watch?v=V5D5rOZIFEU>)
- 5/2014 Pima County Local Drought Impacts Group, Tucson, AZ
- 1/2013 Lulu Walker Elementary Science Extravaganza, Tucson, AZ
- 9/2012 Science Cafe, Tucson, AZ
- 7/2012 Society of American Military Engineers, Tucson, AZ
- 2/2012 Sustainability Café, US Arizona Green Building Council, Tucson, AZ
- 1/2012 Arizona Climate and Water Resources Alliance Collaborative Workshop on Climate Extremes, Tempe, AZ
- 12/2011 Science Café, College of Science, Tucson, AZ
- 5/2011 Arizona Project WET Riparian Symposium, University of Arizona, Tucson, AZ, **Keynote**
- 11/2010 Earth Sciences Saturday Academy, University of Arizona, Tucson, AZ, **Keynote**
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- 2/1999 Scripps Institution of Oceanography Centennial Oral Histories, “Joellen Russell Interviewing Joe Reid”, (Audio: <https://library.ucsd.edu/dc/object/bb06173031>; Transcript: [https://library.ucsd.edu/dc/object/bb06173031/4\\_1.pdf](https://library.ucsd.edu/dc/object/bb06173031/4_1.pdf))
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- <https://joellenrussell.com/> (Personal/Professional)
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