

Published Research (h-index = 29; Total citations as of 11/2023 = 4573)

Total publications	76 total ; 73 published, 1 in press, 2 undergoing peer review
Lead author	19 articles as lead, solo, or co-lead author
High-profile	11 articles in one of PNAS, Nature or Science journals
Community products	8 articles which present new data/modeling community resources
Work led by mentees	14 articles with student/postdoctoral supervisee lead author

Leadership Activities (national/international level)

2022-present	<i>Co-chair</i> , UC Santa Barbara campus-based committee for UC Disaster Resilience Network
2022-present	<i>Co-chair</i> , CESM Paleoclimate Working Group
2020-present	<i>Member</i> , CLIVAR Tropical Pacific Decadal Variability Working Group
2020-present	<i>Member</i> , CLIVAR ENSO Conceptual Model Working Group
2019-present	<i>Member</i> , CLIVAR Pacific Region Panel
2020-present	<i>Group leader</i> , Mentoring Women in Physical Oceanography to Increase Retention (MPOWIR) mentoring group
2016-present	<i>Member</i> , PAGES Iso2k Working Group
2018-2020	<i>Core member</i> , US CLIVAR working group, "Observations and Modeling of Isotopes in the Climate System"
2016-2019	<i>Member</i> , US CLIVAR Processes, Observations, and Syntheses panel

Service to the Scientific Community

2021	<i>Panelist</i> , NSF Marine Geology & Geophysics proposal review
2021	<i>Invited panelist</i> , US National Academies workshop: Identifying New Community-Driven Science Themes for NSF's Support of Paleoclimate Research
2021	<i>Invited panelist</i> , US CLIVAR Tropical Pacific Observing Needs workshop
2017-2018	<i>Scientific organizing committee member</i> , US CLIVAR workshop "Bridging Sustained Observations and Data Assimilation in Advance of the Next Generation Tropical Pacific Observing System"
2013	<i>Contributing author</i> , Intergovernmental Panel on Climate Change Fifth Assessment Report, Working Group I

Fellowships

2018	UCSB Regents' Junior Faculty Fellowship	\$7,500
2018	UCSB Proposal Writing for Success (PROWESS)	\$6,500
2013-2017	NSF Ocean Sciences Postdoctoral Fellowship	\$173,000
2009-2012	NASA Earth & Space Science Fellowship, CU-Boulder	100%
2008-2009	CIRES Graduate Student Fellowship, CU-Boulder	100%
2006-2007	Graduate College Fellowship, University of Arizona	100%

Mentoring Experience

Postdoctoral researchers: S.-Y. Song (UCSB, 2023-), Y. Feng (UCSB, 2023-), A. Xue (2023-)

(Former; current position listed)

S. Coats (NCAR ASP, 2016-2018), Assistant Prof., UH Manoa
C. Harrison (UCSB, 2017-2018), Assistant Prof., Louisiana State U.
D. Touma (UCSB, 2019-), NCAR Advanced Study Program fellow
M. Madhavan (UCSB, 2019-2021), Assistant Prof., Cochin University
X. Huang (UCSB, 2019-2021), Project Scientist, NCAR
U. Thapa (UCSB, 2020-), NOAA Climate & Global Change fellow

PhD students
(primary advisor):

S. Magahey (2023-),
S. Cwikiel (2022-),
D. Mireles (2021-),
C. Pflieger (2020-),
C. Xing (2020-): all current UCSB students

PhD students
(co-advised):

Y. Zhao (Georgia Tech, 2016-2021), faculty member, Pilot National Lab for Marine Science & Technology, Qingdao, China
J. Coupe (Rutgers, 2019-2021), postdoc, LSU
L. Parsons (U. Arizona, 2014-2017), postdoc, Duke University

PhD thesis committee:

R. Torres (UCSB, 2019-), C. Heckman (UCSB, 2018-),
A. Jersild (Georgia Tech, 2017-2018), X. Feng (NUIST, 2019-)

Undergraduate students:

H. Journey (UCSB, 2023), M. Martin-Chales (UCSB, 2023), E. Bermudez (UCSB, 2023)
J. McCoy (U. Michigan/NCAR, 2015), T. Conroy (U. Hawaii, 2015),
I. Runde (UCSB, 2019), R. Xia (UCSB, 2019)

Teaching Experience

2021-2022 **Professor:** UC Santa Barbara EDS220, Working With Environmental Data. *Required graduate course on fundamentals of environmental data sources, including data access/quality control/use cases and basic analysis (25 students in F21, 35 in F22)*

2018-2023 **Professor:** UC Santa Barbara ESM237, Climate Change Impacts. *Elective graduate course on the impact of climate change on regional hydrology and ecology, with a view towards the design and implementation of climate adaptation plans (27 students in S18, 13 in S19, 26 in S20, 35 in S21, 22 in S22).*

2018-2022 **Professor/advisor:** UC Santa Barbara ESM401/402, Group Masters Thesis. *Required thesis project, performed in groups of 3-5, covering a topic of interest in environmental problem solving in collaboration with an*

external client (5 students in 2018-19, 4 in 2019-20, 5 in 2020-21, 5 in 2021-22).

2018-2022	Professor: UC Santa Barbara ESM203, Intro to Earth System Science. <i>Core required graduate course on Earth system science, covering atmosphere/ocean circulation, hydrology, and climate change fundamentals (80 students in F18, 90 in F19, 82 in F20, 85 in F21).</i>
2016	Guest lecturer: Univ. of Colorado-Boulder ATOC 5051, Physical Oceanography. <i>A graduate-level class required for all ATOC PhD students covering fundamental ocean dynamics and observation.</i>
2010-2011	Guest lecturer: University of Colorado climate and oceanography courses
2007-2008	Teaching assistant: University of Colorado
2000-2003	Teaching assistant: Wesleyan University undergraduate astronomy courses

Public Outreach/Education

2022	Panelist/speaker: West Coast Climate Crisis symposium for science journalists
2020	Panelist: California Environmental Protection Agency's Office of Environmental Health Hazard Assessment (OEHHA) workshop, climate change indicators in California
2019	Panelist/featured scientist: Exhibition on women in climate science and the life of Eunice Foote, UCSB Library
2019	Speaker/panelist: "Modeling the Pacific" conference, UCSB
2018	Speaker: 'Friends of KITP', Kavli Institute for Theoretical Physics, UCSB
2017	Guest lecturer: CESM tutorial, NCAR, Boulder, CO
2017	Participant, Expert Witness Training Academy
2014-2016	Instructor: Climate Science Teacher Institute professional development program for Pacific Islands middle/high school teachers
2015	Guest lecturer: CESM tutorial, NCAR, Boulder, CO
2003-2004	Presenter: Charles Hayden Planetarium, Boston Museum of Science

Selected Press Outreach/Interviews

2022	*CNN Newsource
2022	*KJZZ News public radio, Arizona
2022	*Associated Press
2022	*USA Today
2022	*New Scientist magazine
2022	*Oregon Public Broadcasting
2022	*Radio Ecoshock
2022	*Scientific American (Touma et al. 2022 featured on back cover of May issue)

- 2022 *New York Times
- 2022 *Los Angeles Times
- 2022 Our Climate Challenges documentary film for Amazon Prime
- 2022 Yale Climate Communication video
- 2020 Die Groene Amsterdammer, Netherlands
- 2019 National Public Radio affiliate station KCRW
- 2019 Scientific American

*interview about Stevenson group research

Honors

- 2018 Editors' Citation for Excellence in Refereeing, *Geophysical Research Letters*
- 2016 Editors' Citation for Excellence in Refereeing, *Geophysical Research Letters*
- 2011 WCRP Open Science Conference, outstanding student presentation award
- 2011 Sigma Xi, University of Colorado chapter
- 2009 University of Colorado, outstanding student presentation award
- 2005 NASA Public Service Group Achievement Award
- 2003 CT State Congress citation for academic achievement **(M.A. recipient, age 19)**
- 2000 CT State Congress citation for academic achievement **(B.A. recipient, age 16)**

Presentations

Seminars

- 2023 Princeton Atmosphere-Ocean Sciences paleoclimate workshop (*keynote speaker*)
- 2023 Pacific Northwest Drought Early Warning System Drought and Climate Outlook
- 2023 Regional and Global Model Analysis high-latitude seminar series
- 2022 National Renewable Energy Laboratory
- 2022 National Center for Atmospheric Research
- 2022 Woods Hole Oceanographic Institution
- 2022 University of California, Santa Cruz
- 2020 Oregon State University
- 2020 Iowa State University
- 2020 Geography Department, UC Santa Barbara
- 2019 Earth, Environmental & Planetary Sciences department, Rice University
- 2019 Center for Interdisciplinary Research in Fluids, UC Santa Barbara
- 2018 Earth Science Department, UC Santa Barbara
- 2018 Interdepartmental Graduate Program in Marine Sciences, UC Santa Barbara
- 2018 Geography Department, UC Santa Barbara
- 2018 Physics Department, UC Santa Barbara
- 2017 Brown University

2017 Bren School, UC Santa Barbara
 2017 Georgia Institute of Technology
 2016 NOAA Geophysical Fluid Dynamics Laboratory
 2016 Earth Research Institute, UC Santa Barbara
 2016 Department of Atmospheric & Oceanic Sciences, McGill University
 2016 Climate and Global Dynamics division, National Center for Atmospheric Research
 2015 Institute for Arctic and Alpine Research, University of Colorado
 2014 Department of Geosciences, University of Arizona
 2014 University of Colorado at Boulder/CIRES
 2013 NOAA Geophysical Fluid Dynamics Laboratory
 2013 Georgia Institute of Technology
 2012 Scripps Institute of Oceanography
 2012 International Pacific Research Center, University of Hawaii
 2011 Climate Change Research Centre, University of New South Wales
 2010 Climate and Global Dynamics division, National Center for Atmospheric Research
 2010 Division of Ocean and Climate Physics, Lamont-Doherty Earth Observatory

Conference Presentations

2023 American Geophysical Union Fall Meeting, San Francisco, CA *(invited)*
 2022 Asia-Oceania Geosciences Society Meeting, virtual *(invited)*
 2022 University of Hawaii/Scripps Workshop on Pacific Climate Variability
 2022 American Geophysical Union Ocean Sciences Meeting, virtual *(invited)*
 2021 American Geophysical Union Fall Meeting, New Orleans, LA
 2021 NCAR workshop on Subseasonal to Seasonal Science and Predictions *(invited)*
 2020 American Geophysical Union Fall Meeting, virtual *(invited)*
 2020 Community Earth System Model Paleoclimate & Land Ice Working Group, Boulder, CO *(invited)*
 2020 US CLIVAR Working Group on Large Ensembles *(invited)*
 2020 American Geophysical Union Ocean Sciences Meeting, San Diego, CA
 2019 American Geophysical Union Fall Meeting, Washington, DC *(invited)*
 2019 US CLIVAR Water Isotopes and Climate Workshop, Boulder, CO
 2019 Past2Future working group of the Paleoclimate Modeling Intercomparison Project, London, UK *(invited)*
 2018 American Geophysical Union Fall Meeting, Washington, DC *(invited)*
 2018 IV International Conference on El Nino Southern Oscillation: ENSO in a Warmer Climate, Guayaquil, Ecuador *(invited)*
 2017 American Geophysical Union Fall Meeting, New Orleans, LA *(invited)*
 2017 Keynote lecture, Last Millennium Reanalysis Workshop, Boulder, CO *(invited)*
 2017 Paleoclimate Model Intercomparison Project phase 4 meeting, Stockholm, Sweden

- 2017 US CLIVAR Summit, Baltimore, MD (*invited*)
- 2017 Community Earth System Model Workshop, Boulder, CO
- 2017 PAGES Open Science Meeting, Zaragoza, Spain
- 2016 American Geophysical Union Fall Meeting, San Francisco, CA
- 2016 CLIVAR Open Science Conference, Qingdao, China
- 2016 PICES-2016 25th Anniversary Meeting (*invited*), San Diego, CA
- 2016 Community Earth System Model Workshop, Breckenridge, CO
- 2016 PAGES 2K-PMIP3 Workshop on Hydroclimate (*invited*), Palisades, NY
- 2016 American Geophysical Union Ocean Sciences Meeting, New Orleans, LA
- 2015 American Geophysical Union Fall Meeting (*invited*), San Francisco, CA
- 2015 Community Earth System Model Workshop, Breckenridge, CO
- 2015 Gordon Research Conference on Coastal Ocean Modeling (*invited*), Biddeford, ME
- 2015 European Geophysical Union Fall Meeting, Vienna, Austria
- 2014 Antarctic Climate of the 21st Century (*invited*), San Francisco, CA
- 2014 European Geophysical Union Fall Meeting, Vienna, Austria (*invited; declined*)
- 2013 American Geophysical Union Fall Meeting (*invited*), San Francisco, CA
- 2013 CLIVAR Pacific panel workshop, "Evaluation of ENSO Processes in Climate Models", Hobart, Australia
- 2012 Physical Oceanography Dissertation Symposium (PODS VII), Lihue, HI
- 2012 European Science Foundation workshop "Modes of Variability in the Climate System", Obergurgl, Austria
- 2012 American Geophysical Union Ocean Sciences Meeting, Salt Lake City, UT
(*Winner: Outstanding Scientific Presentation)
- 2011 World Climate Research Programme Open Science Conference, Denver, CO
(*Winner: Outstanding Scientific Presentation)
- 2011 Pattullo conference (Mentoring Women in Physical Oceanography), Warrenton, VA
- 2011 Ocean Model Working Group, NCAR CESM workshop, Breckenridge, CO
- 2010 European Geophysical Union meeting, Vienna, Austria
- 2009 CCSM Ocean Model Working Group meeting, Boulder, CO
- 2008 CIRES graduate student seminar series
(*Winner: best student presentation in series)

Technical Skills

Climate, atmosphere, and ocean modeling; multivariate statistics; Fortran; Matlab; IDL; R; NCL; HTML; Perl; Bash/csh; Python

Field Experience

- 2016 Coastal monitoring and coral sample collection at Christmas Island, Kiribati
CTD, salinity logger assembly, deployment assistance; fossil coral processing and cataloging
- 2014 Monitoring El Nino impacts on near-reef conditions at Palmyra Atoll.
CTD, ADCP assembly, deployment assistance
- 2012 Study on biologically generated noise in Hawaiian Island reef environments, Oahu. *Hydrophone deployment and retrieval*
- 2011 Research assistant in McGregor lab, Wollongong, Australia.
Processing of coral paleoclimate samples
- 2010 Impact of Typhoons on the Ocean in the Pacific (ITOP) cold-wake cruise, Taiwan. *CTD, glider and vertical microstructure profiler operations, data analysis*

Publications (76 total; 19 lead/co-lead author; 13 student/postdoc authored)

(Authorship with supervisees:

student authors in italics; postdoctoral scholar authors underlined)

*paper presents a new community resource

- [76] Thapa, U. and Stevenson, S. 2023. Influence of ENSO and Volcanic Eruptions on Himalayan Jet Latitude. *Geophysical Research Letters*, under review
- [75] Torres, R., Tague, C., McFadden, J., Miller, D., Alonzo, M., **Stevenson, S.** 2023. Urban tree resilience to drought and extreme heat in a Mediterranean climate: insights from an ecohydrologic model parameterized at the tree species level with remote sensing data . *Journal of Geophysical Research - Biogeosciences*, under review
- [74] Fasullo, J., Golaz, J. C., Caron, J. M., Rosenbloom, N., Meehl, G. A., Strand, G., Glanville, S., **Stevenson, S.**, et al. 2023. An Overview of the E3SM version 2 Large Ensemble and Comparison to other E3SM and CESM Large Ensembles. *Earth System Dynamics*, under review
- [73] Konecky, B., McKay, N., Falster, G., **Stevenson, S.**, Fischer, M., Atwood, A., Thompson, D., Jones, M., Tyler, J., DeLong, K., Martrat, B., Thomas, E., Conroy, J., Dee, S., Jonkers, L., Churakova, O., Kern, Z., Opel, T., Porter, T., Sayani, H., Skrzypek, G., Iso2k Project Members, 2023. Globally coherent water cycle response to temperature change during the past two millennia. *Nature Geoscience*, pp.1-8
- [72] **Stevenson, S.**, Cobb, K., Merrifield, M., Powell, B., Sanchez, S., Nusbaumer, J., O'Connor, G., Atwood, A. 2023. Contrasting central equatorial Pacific oxygen isotopic signatures of the 2014/15 and 2015/16 El Nino events. *Geophysical Research Letters*, 50(21), p.e2023GL104454
- [71] Capotondi, A., McGregor, S., McPhaden, M. J., Cravatte, S., Holbrook, N. J., Imada, Y., Sanchez, S. C., Sprintall, J., Stuecker, M., Ummenhofer, C. C., Zeller, M., Farneti, R., Graffino, G., Hu, S., Karnauskas, K. B., Kosaka, Y., Kucharski, F., Mayer, M., Qiu, B., Santoso, A., Taschetto, A., Wang, F., Zhang, X., Holmes, R., Luo, J.-J., Maher, N.,

- Martinez-Villalobos, C. A., Naha, R., **Stevenson, S.**, Sullivan, S., van Rensch, P., Xu, T. 2023. Mechanisms of Tropical Pacific Decadal Variability. *Nature Reviews Earth & Environment*, pp.1-16
- [70] Zhu, F., Emile-Geay, J., Anchukaitis, K., McKay, N., **Stevenson, S.**, Meng, Z. 2023. A pseudoproxy emulation of the PAGES 2k database using a hierarchy of proxy system models. *Scientific Data*, 10(1), p.624
- [69] Falster, G., Konecky, B., Coats, S., **Stevenson, S.** 2023. Volcanic and anthropogenic forcing of the Pacific Walker Circulation over the past millennium. *Nature*, pp.1-8.
- [68] Dee, S., Bailey, A., Conroy, J., Atwood, A., **Stevenson, S.**, Nusbaumer, J., Noone, D. 2023. Water isotopes, climate variability, and the hydrological cycle: recent advances and new frontiers. *Environmental Research: Climate*.
- [67] ***S. Stevenson**, X. Huang, Y. Zhao, E. Di Lorenzo, M. Newman, L. van Roekel, T. Xu, and A. Capotondi, 2023. Ensemble Spread Behavior in Coupled Climate Models: Insights from the Energy Exascale Earth System Model v1 Large Ensemble. *JAMES*, 15(7), p.e2023MS003653
- [66] Zhao, Y., Di Lorenzo, E., Newman, M., Capotondi, A., and **Stevenson, S.**, 2023. A Pacific Tropical Decadal Variability Challenge for Climate Models. *Geophysical Research Letters*, 50(15), e2023GL104037
- [65] Huang, X. and **Stevenson, S.** 2023. Contributions of climate change and ENSO variability to future precipitation extremes over California. *Geophysical Research Letters*, 50 (12), e2023GL103322
- [64] Di Lorenzo, E., Xu, T., Zhao, Y., Newman, M., Capotondi, A., **Stevenson, S.**, Amaya, D.J., Anderson, B.T., Ding, R., Furtado, J.C. and Joh, Y., 2022. Modes and mechanisms of Pacific decadal-scale variability. *Annual Review of Marine Science*, 15.
- [63] Maher, N., Jnglin Wills, R. C., DiNezio, P., Klavans, J., Milinski, S., Sanchez, S. C., **Stevenson, S.**, Stuecker, M. F., & Wu, X. 2022, "The future of the El Niño-Southern Oscillation: Using large ensembles to illuminate time-varying responses and inter-model differences", *Earth System Dynamics Discussions*, 1-28
- [62] ***Stevenson, S.**, Huang, X., Zhao, Y., Di Lorenzo, E., Newman, M., van Roekel, L., Xu, T., & Capotondi, A. 2022, "Ocean Initial State Contributions to Ensemble Spread: Insights from the Energy Exascale Earth System Model version 1 Large Ensemble", *Journal of Advances in Modeling Earth Systems*, submitted
- [61] Xu, T., Newman, M. Capotondi, A., **Stevenson, S.**, & Di Lorenzo, E. 2022, "An Increase in Marine Heatwaves Despite Decreasing Surface Ocean Temperature Variability", *Nature Climate Change*, 13(1), 1-12
- [60] Cook, B. I., Smerdon, J. E., Cook, E. R., Williams, A. P., Anchukaitis, K. J., Mankin, J. S., Allen, K., Andreu-Hayles, L., Ault, T. R., Belmecheri, S., Coats, S., Coulthard, B., Fosu, B., Grierson, P., Griffin, D., Herrera, D. A., Ionita, M., Lehner, F., Leland, C., Marvel, K., Morales, M. S., Mishra, C., Ngoma, J., Nguyen, H. T. T., O'Donnell, A., Palmer, J., Rao, M. P., Rodriguez-Caton, M., Seager, R., Stahle, D. W., **Stevenson, S.**, Thapa, U. K., Varuolo-Clarke, A. M., Wise, E. K. 2022, "Megadroughts in the Common Era and Anthropocene", *Nature Reviews Earth and Environment*, 1-17

- [59] Carrillo, C., Coats, S., Newman, M., Herrera, D. A., Li, X., Moore, R., Shin, S.-I., **Stevenson, S.**, Lehner, F., & Ault, T. R. 2022, "Megadrought: a series of unfortunate La Nina events?", *Journal of Geophysical Research-Atmospheres*, 127(21), p.e2021JD036376
- [58] Harrison, C., Rohr, T., Duvivier, A., Maroon, E., Bardeen, C., Coupe, J., Lovenduski, N., Neubauer, V., Rangel, A., Robock, A., Stevens, J., **Stevenson, S.**, & Toon, O. B. 2022, "A New Ocean State After Nuclear Winter", *AGU Advances*, 3(4), p.e2021AV000610
- [57] Thompson, D., Conroy, J., Konecky, B., **Stevenson, S.**, DeLong, K. L., McKay, N. & Jonkers, L. 2022, "Salinity information from hydro-sensitive coral $\delta^{18}\text{O}$ records", *Geophysical Research Letters*, e2021GL096153
- [56] Luo, Y., Dee, S., **Stevenson, S.**, Okumura, Y., Steiger, N. & Parsons, L. 2022, "Last Millennium ENSO Diversity and North American Teleconnections: New Insights from Paleoclimate Data Assimilation", *Paleoceanography and Paleoclimatology*, 37(3), p.e2021PA004283
- [55] Touma, D., **Stevenson, S.**, Swain, D., Singh, D., Kalashnikov, D., & Huang, X. 2022, "Climate change increases risk of extreme rainfall following wildfire in the western United States", *Science Advances*, 8(13), eabm0320
- [54] **Stevenson, S.**, Coats, S., Touma, D., Cole, J. E., Fasullo, J. & Lehner, F. 2022, "21st Century Hydroclimate: A Continually Changing Baseline, with More Frequent Extremes", *PNAS*, 119 (12) e2108124119
- [53] Thapa, U., **Stevenson, S.**, & Midhun, M. 2022, "Orbital forcing shifted the Himalayan subtropical jet poleward over the past millennium", *Geophysical Research Letters*, 49(3), p.e2021GL095955
- [52] Falster, G., Konecky, B., Midhun, M., **Stevenson, S.**, & Coats, S. 2021, "Imprint of Pacific Walker circulation in global precipitation $\delta^{18}\text{O}$ ", *Journal of Climate*, 1-55
- [51] O'Connor, G., Cobb, K. M., Sayani, H. R., Atwood, A. T., Grothe, P. R., **Stevenson, S.**, Baum, J., Chen, T., Claar, D., Hitt, N. T., Lynch-Stieglitz, J., Merrifield, M. A., Schmidt, G. A., & Walter, R. 2021, "Coral oxygen isotope and *in situ* records capture the 2015/2016 El Nino event in the central equatorial Pacific", *Geophysical Research Letters*, e2021GL094036
- [50] Huang, X. & **Stevenson, S.** 2021, "The impact of future North Pacific mean circulation changes on western US precipitation extremes", *Earth's Future*, 9(6), p.e2020EF001944
- [49] Coupe, J., **Stevenson, S.**, Lovenduski, N., Rohr, T., Harrison, C., Robock, A., Olivarez, H., Bardeen, C. G. & Toon, O. B. 2021, "Nuclear Nino response observed in simulations of nuclear war scenarios", *Communications Earth and Environment*, 2(1), 1-11
- [48] Touma, D., **Stevenson, S.**, Lehner, F., & Coats, S. 2021, "Human-driven greenhouse gas and aerosol emissions cause distinct regional impacts on extreme fire weather", *Nature Communications*, 12,212
- [47] Feng, X., Ding, Q., Wu, L., Jones, C., Baxter, I., Tardif, R., **Stevenson, S.**, Emile-Geay, J., Mitchell, J., Carvalho, L., Wang, H. & Steig, E. 2020, "A multidecadal-scale tropically-driven global teleconnection over the past millennium and its recent strengthening ", *Journal of Climate*, 34(7), 2549-2565
- [46] Madhavan, M., **Stevenson, S.**, & Cole, J. E. 2021, "Oxygen isotopic signatures of major

- climate modes and implications for detectability”, *Geophysical Research Letters*, 48 (1), e2020GL089515
- [45] Zhao, Y., Di Lorenzo, E., Sun, D., Newman, M., **Stevenson, S.**, & Van Roekel, L. P. 2020, “The tropical Pacific decadal variability and ENSO precursor in CMIP5 models”, *Journal of Climate*, 34(3), 1023-1045
- [44] Scherrer, K., Harrison, C. S., Heneghan, R., Galbraith, E. D., Bardeen, C. G., Jagermeyr, J., Lovenduski, N. S., Luna, A., Robock, A., Stevens, J., **Stevenson, S.**, Toon, O. B., & Xia, L. 2020, “Marine wild-capture fisheries after nuclear war”, *PNAS*, 117(47), 29748-29758
- [43] **Stevenson, S.**, Wittenberg, A., Fasullo, J., Coats, S., & Otto-Bliesner, B. 2021, “Understanding Diverse Model Projections of Future Extreme El Nino”, *Journal of Climate*, 34(2), 449-464
- [42] Coats, S., Smerdon, J. E., **Stevenson, S.**, Fasullo, J. T., Otto-Bliesner, B. & Ault, T. R. 2020, “Paleoclimate Constraints on the Spatiotemporal Character of Past and Future Droughts”, *Journal of Climate*, 33(22), 9883-9903
- [41] *Deser, C., Phillips, A., Simpson, I. R., Rosenbloom, N., Coleman, D., Lehner, F., Pendergrass, A., DiNezio, P. & **Stevenson, S.** 2020, “Isolating the Evolving Contributions of Anthropogenic Aerosols and Greenhouse Gases: A New CESM1 Large Ensemble Community Resource”, *Journal of Climate*, **33** (18): 7835-7858.
- [40] Huang, X., **Stevenson, S.**, & Hall, A. 2020, “Future warming and intensification of precipitation extremes: A ‘double whammy’ leading to increasing flood risk in California”, *Geophysical Research Letters*, 47, 16, e2020GL088679
- [39] Dee, S., Okumura, Y., **Stevenson, S.**, & DiNezio, P. 2020, “Enhanced North American ENSO teleconnections during the Little Ice Age revealed by paleoclimate data assimilation”, *Geophysical Research Letters*, 47, 15, e2020GL087504
- [38] McGregor, S., Khodri, M., Maher, N., Pausata, F. S. R. & **Stevenson, S.** 2020, “The Effect of Strong Volcanic Eruptions on ENSO”, In *El Niño Southern Oscillation in a Changing Climate*, Michael J. McPhaden, Agus Santoso, and Wenju Cai (Eds.). Wiley., 267-287
- [37] Brown, J. R., Brierley, C. M., An, S.-I., Guarino, M. V., **Stevenson, S.**, Williams, C. J. R., Zhang, Q., Zhao, A., Braconnot, P., Brady, E. C., Chandan, D., D’Agostino, R., Guo, C., LeGrande, A. N., Lohmann, G., Morozona, P. A., Ohgaito, R., O’ishi, R., Otto-Bliesner, B., Shi, X., Sime, L., Zhang, Z., Zheng, W. 2020, “Comparison of past and future simulations of ENSO in CMIP5/PMIP3 and CMIP6/PMIP4 models”, *Climate of the Past*, 16(5), 1777-1805
- [36] *Konecky, B., McKay, N. P., Churakova, O. V., Comas-Bru, L., Dassie, E. P., Delong, K. L., Falster, G. M., Fischer, M. J., Jones, M. D., Jonkers, L., Kaufman, D. S., Leduc, G., Managave, S. R., Martrat, B., Opel, T., Orsi, A. J., Partin, J. W., Sayani, H. R., Thomas, E. K., Thompson, D. M., Tyler, J. J., Abram, N. J., Atwood, A. R., Conroy, J. L., Kern, Z., Porter, T. J., **Stevenson, S.**, von Gunten, L., Braun, K., Carre, M., Dee, S. G., Incarbona, A., Kaushal, N., Klaebe, R. M., Kolus, H. R., Mortyn, P. G., Moy, A. D., Roop, H. A., & Sicre, M-A. 2020, “The Iso2k Database: A global compilation of paleo- $\delta^{18}\text{O}$ and $\delta^2\text{H}$ records to aid understanding of Common Era climate”, *Earth System Science Data*, 12(3), 2261-2288

- [35] Lovenduski, N., Harrison, C. H., Olivarez, H., Bardeen, C. G., Toon, O. B., Coupe, J., Robock, A., Rohr, T., & **Stevenson, S.** 2020, "The potential impact of nuclear conflict on ocean acidification", *Geophysical Research Letters*, 47(3), e2019GL086246
- [34] Huang, X., Swain, D. L., Walton, D. B., **Stevenson, S.**, & Hall, A. 2020, "Simulating and Evaluating Atmospheric River-Induced Precipitation Extremes Along the U.S. Pacific Coast: Case Studies from 1980-2017", *Journal of Geophysical Research-Atmospheres*, 125 (4)
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