

SLOAN COATS

Publication List

Published and In Press

24. Parsons, L. and **S. Coats**, Ocean-Atmosphere Trajectories of Extended Drought in Southwestern North America, *Journal of Geophysical Research: Atmospheres*, 2019. In press
23. Samanta, D., K.B. Karnauskas, N. Goodkin, **S. Coats**, J.E. Smerdon and L. Zhang, Coupled model biases breed spurious low-frequency variability in the tropical pacific ocean, *Geophysical Research Letters*, 2018. DOI: <https://doi.org/10.1029/2018GL079455>
22. Herrera-Hernandez, D.A., T.R. Ault, J.T. Fasullo, **S. Coats**, C.M. Carrillo, B.I. Cook and A.P. Williams, Exacerbation of the 2013-2016 Pan-Caribbean drought by anthropogenic warming, *Geophysical Research Letters*, 2018. DOI: <https://doi.org/10.1029/2018GL079408>
21. Cook, B.I., A.P. Williams, J.E. Smerdon, J.G. Palmer, E.R. Cook, D.W. Stahle and **S. Coats**, Cold tropical Pacific sea surface temperatures during the late sixteenth-century North American megadrought, *Journal of Geophysical Research: Atmospheres*, 2018. DOI: <https://doi.org/10.1029/2018JD029323>
20. Parsons, L., **S. Coats** and J.T. Overpeck, The continuum of drought in Southwestern North America, *Journal of Climate*, 2018. DOI: <https://doi.org/10.1175/JCLI-D-18-0010.1>
19. **Coats, S.** and K.B. Karnauskas, A role for the Equatorial Undercurrent in the ocean dynamical thermostat, *Journal of Climate*, 2018. DOI: <https://doi.org/10.1175/JCLI-D-17-0513.1>
18. Stevenson, S., J.T. Overpeck, J. Fasullo, **S. Coats**, L. Parsons, B. Otto-Bliesner, T. Ault, G. Loope and J. Cole, Climate Variability, Volcanic Forcing, and Last Millennium Hydroclimate Extremes, *Journal of Climate*, 2018. DOI: [10.1175/JCLI-D-17-0407.1](https://doi.org/10.1175/JCLI-D-17-0407.1)
17. Ault, T., S. St. George, J.E. Smerdon, **S. Coats**, J.S. Rankin, C.C. Carillo, B.I. Cook and S. Stevenson, A robust null hypothesis for the potential causes of megadrought in western North America, *Journal of Climate*, 2018. DOI: [10.1175/JCLI-D-17-0154.1](https://doi.org/10.1175/JCLI-D-17-0154.1)
16. **Coats, S.** and K.B. Karnauskas, Are simulated and observed 20th century tropical Pacific sea surface temperature trends significant relative to internal variability?, *Geophysical Research Letters*, 2017. DOI: [10.1002/2017GL074622](https://doi.org/10.1002/2017GL074622)
15. Smerdon, J.E., J. Luterbacher, S.J. Phipps, K.J. Anchukaitis, T. Ault, **S. Coats**, et al., Comparing proxy and model estimates of hydroclimate variability and change over the Common Era, *Climate of the Past Discussions*, 2017. DOI: [10.5194/cp-13-1851-2017](https://doi.org/10.5194/cp-13-1851-2017)
14. Lehner, F., **S. Coats**, T.F. Stocker, A.G. Pendergrass, B.M. Sanderson, C.C. Raible and J.E. Smerdon, Projected drought risk in 1.5°C and 2.0°C warmer climates, *Geophysical Research Letters*, 2017. DOI: [10.1002/2017GL074117](https://doi.org/10.1002/2017GL074117)
13. Baek, S.H., J.E. Smerdon, **S. Coats**, B.I. Cook, R. Seager and A.P. Williams, Seasonality and teleconnection signals across the North American, Monsoon Asia, and Old World Drought Atlas, *Journal of Climate*, 2017. DOI: [10.1175/JCLI-D-16-0766.1](https://doi.org/10.1175/JCLI-D-16-0766.1)

12. Scheff, J., R. Seager, H. Liu and **S. Coats**, Are glacials dry? Consequences for paleoclimatology and for greenhouse warming, *Journal of Climate*, 2017. DOI: 110.1175/JCLI-D-16-0854.1
11. **Coats, S.** and J.S. Mankin, The challenge of accurately quantifying future megadrought risk in the American Southwest, *Geophysical Research Letters*, 2016. DOI: 10.1002/2016GL070445
10. **Coats, S.**, J.E. Smerdon, B.I. Cook, R. Seager, E.R. Cook and K.J. Anchukaitis, Internal ocean-atmosphere variability drives megadroughts in Western North America, *Geophysical Research Letters*, 2016. DOI: 10.1002/2016GL070105
9. **Coats, S.**, J.E. Smerdon, K.B. Karnauskas and R. Seager, The improbable but unexceptional occurrence of North American megadrought clustering during the Medieval Climate Anomaly, *Environmental Research Letters*, 2016. DOI: 10.1088/1748-9326/11/7/074025
8. Cook, B.I., E.R. Cook, J.E. Smerdon, R. Seager, A.P. Williams, **S. Coats**, D.W. Stahle and J.V. Diaz, North American megadroughts in the Common Era: Reconstructions and simulations, *WIREs Climate Change*, 2016. DOI: 10.1002/wcc.394
7. **Coats, S.**, D. Griffin, R. Seager, J.E. Smerdon and B.I. Cook, Winter-to-summer precipitation phasing in southwestern North America: A multi-century perspective from paleoclimatic model-data comparisons, *Journal of Geophysical Research: Atmospheres*, 2015. DOI: 10.1002/2015JD023085
6. Smerdon, J.E., **S. Coats** and T.R. Ault, Model-dependent spatial skill in pseudoproxy experiments testing climate field reconstruction methods for the Common Era, *Climate Dynamics*, 2015. DOI: 10.1007/s00382-015-2684-0
5. **Coats, S.**, B.I. Cook, J.E. Smerdon and R. Seager, North American pan-continental droughts in model simulations of the last millennium, *Journal of Climate*, 2015. DOI: 10.1175/JCLI-D-14-00634.1
4. **Coats, S.**, J.E. Smerdon, B.I. Cook and R. Seager, Are simulated megadroughts in the North American southwest forced?, *Journal of Climate*, 2015. DOI: 10.1175/JCLI-D-14-00071.1
3. Cook, B.I., J.E. Smerdon, R. Seager and **S. Coats**, Global warming and 21st century drying, *Climate Dynamics*, 2014. DOI: 10.1007/s00382-014-2075-y
2. **Coats, S.**, J.E. Smerdon, B.I. Cook and R. Seager, Stationarity of the tropical Pacific teleconnection to North America in the CMIP5/PMIP3 model simulations, *Geophysical Research Letters*, 2013. DOI: 10.1002/grl.50938
1. **Coats, S.**, J.E. Smerdon, R. Seager, B.I. Cook and J.F. González-Rouco, Megadroughts in southwestern North America in millennium-length ECHO-G simulations and their comparison to proxy drought reconstructions, *Journal of Climate*, 2013. DOI: 10.1175/JCLI-D-12-00603.1

Non Peer-Reviewed

1. **Coats, S.** and J.E. Smerdon, Climate variability: The Atlantic's internal drum beat, *Nature Geoscience*, 2017. DOI: 10.1038/ngeo2970