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Publications

Journal Articles

65. Hoell, A., and 11 co-authors, 2021: Record Low 2020 North American Monsoon Rains Reignites American Southwestern Drought, *Bulletin of the American Meteorology Society*, in press
64. Zinke, J., S.A. Browning, A. Hoell, I.D. Goodwind, 2021: Last Millennium Drought-inducing Teleconnections of the West Pacific Gradient during ENSO, *Scientific Reports*, in press
63. Hoell, A., T. Ford, M. Woloszyn, J. Otkin, 2021: Characteristics and Predictability of Midwestern United States Drought, *Journal of Hydrometeorology*, in press
62. Funk, C., Turner, W., McNally, A., Hoell, A., Harrison, L., Galu, G., Slinski, K., Way-Henthorne, J., Husak, G., 2021: An Agro-Pastoral Phenological Water Balance Framework for Monitoring and Predicting Growing Season Water Deficits and Drought Stress, *Front. Clim.*, 24 August 2021 <https://doi.org/10.3389/fclim.2021.716568>
61. Herring, S. C., N. Christidis, A. Hoell, M. P. Hoerling, and P. A. Stott, Eds., 2021: Explaining Extreme Events of 2019 from a Climate Perspective. *Bull. Amer. Meteor. Soc.*, 102 (1), S1–S112, <https://doi.org/10.1175/BAMSExplainingExtremeEvents2019.1>.
60. Barlow, M., A. Hoell, L. Agel, 2021: An evaluation of CMIP6 historical simulations of the cold season teleconnection between tropical Indo-Pacific sea surface temperatures and precipitation in Southwest Asia, the coastal Middle East, and Northern Pakistan and India, doi: <https://doi.org/10.1175/JCLI-D-19-1026>
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57. Wahl, E. R., A. Hoell, E. Zorita, E. Gille, and H. F. Diaz, 2020: A 450-year Perspective on California Precipitation “Flips”. *J. Climate*, doi: <https://doi.org/10.1175/JCLI-D-19-0828.1>.
56. Hoell, A., Eischeid, J., Barlow, M., McNally, A., 2020: Characteristics, precursors, and potential predictability of Amu Darya Drought in an Earth system model large ensemble. *Clim Dyn*, 55, 2185–2206. <https://doi.org/10.1007/s00382-020-05381-5>
55. Zhang, T., M. P. Hoerling, A. Hoell, J. Perlwitz, and J. Eischeid, 2020: Confirmation for and Predictability of Distinct U.S. Impacts of El Niño Flavors. *J. Climate*, 33, 5971–5991, <https://doi.org/10.1175/JCLI-D-19-0802.1>.
54. Murray, D., A. Hoell and 11 Coauthors, 2020: Facility for Weather and Climate Assessments (FACTS): A Community Resource for Assessing Weather and Climate Variability. *Bull. Amer. Meteor. Soc.*, 101, E1214–E1224, <https://doi.org/10.1175/BAMS-D-19-0224.1>.
53. Pendergrass, A.G., G.A. Meehl, R. Pulwarty, M. Hobbins, A. Hoell and 17 Coauthors, 2020: Flash droughts present a new challenge for subseasonal-to-seasonal prediction. *Nat. Clim. Chang.* 10, 191–199. <https://doi.org/10.1038/s41558-020-0709-0>.
52. Herring, S.C., N. Christidis, A. Hoell, M.P. Hoerling, and P.A. Stott, 2020: Explaining Extreme Events of 2018 from a Climate Perspective. *Bull. Amer. Meteor. Soc.*, 101, S1–S134, <https://doi.org/10.1175/BAMS-ExplainingExtremeEvents2018.1>.
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48. Funk, C., and Coauthors, 2019: Recognizing the Famine Early Warning Systems Network: Over 30 Years of Drought Early Warning Science Advances and Partnerships Promoting Global Food Security. *Bulletin of the American Meteorological Society*, 100, 1011-1027.
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41. Quan, X.-W., and Coauthors, 2018: Extreme California Rains During Winter 2015/16: A Change in El Niño Teleconnection? *Bulletin of the American Meteorological Society*, 99, S49-S53.
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38. Morrill, C., D. P. Lowry, and A. Hoell, 2018: Thermodynamic and Dynamic Causes of Pluvial Conditions During the Last Glacial Maximum in Western North America. *Geophysical Research Letters*, 45, 335-345.
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32. Dole, R. M., and Coauthors, 2017: Advancing Science and Services during the 2015/16 El Niño: The NOAA El Niño Rapid Response Field Campaign. *Bulletin of the American Meteorological Society*, 99, 975-1001.
31. Hoell, A., C. Funk, J. Zinke, and L. Harrison, 2017: Modulation of the Southern Africa precipitation response to the El Niño Southern Oscillation by the subtropical Indian Ocean Dipole. *Clim Dyn*, 48, 2529-2540.
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25. Shukla, S., J. Roberts, A. Hoell, C. C. Funk, F. Robertson, and B. Kirtman, 2016: Assessing North American multimodel ensemble (NMME) seasonal forecast skill to assist in the early warning of anomalous hydrometeorological events over East Africa. *Clim Dyn*.

24. Hoell, A., and Coauthors, 2016: Does El Niño intensity matter for California precipitation? *Geophysical Research Letters*, 43, 819-825.
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22. Barlow, M., B. Zaitchik, S. Paz, E. Black, J. Evans, and A. Hoell, 2015: A Review of Drought in the Middle East and Southwest Asia. *Journal of Climate*, 29, 8547-8574.
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16. Funk, C., and Coauthors, 2015: The climate hazards infrared precipitation with stations—a new environmental record for monitoring extremes. *Scientific Data*, 2, 150066.
15. Zinke, J., and Coauthors, 2015: Coral record of southeast Indian Ocean marine heatwaves with intensified Western Pacific temperature gradient. *Nature Communications*, 6, 8562.
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5. Saini, R., M. Barlow, and A. Hoell, 2013: Is the North American monsoon self-limiting? *Geophysical Research Letters*, 40, 4442-4447.
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3. Saini, R., M. Barlow, and A. Hoell, 2011: Dynamics and Thermodynamics of the Regional Response to the Indian Monsoon Onset. *Journal of Climate*, 24, 5879-5886.
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1. Barlow, M., A. Hoell, and F. Colby, 2007: Examining the wintertime response to tropical convection over the Indian Ocean by modifying convective heating in a full atmospheric model. *Geophysical Research Letters*, 34.

Assessments

4. Mankin JS, Simpson I, Hoell A, Fu R, Lisonbee J, Sheffield A, Barrie D., 2021: NOAA Drought Task Force Report on the 2020–2021 Southwestern U.S. Drought. NOAA Drought Task Force, MAPP, and NIDIS. <https://cpo.noaa.gov/MAPP/DTF4SWReport>
3. Woloszyn, M., M. Skumanich, J. Lisonbee, V. Deheza, M. Hobbins, A. Hoell, J. Otkin, M. Svoboda, H. Wang. 2021. Flash Drought: Current Understanding and Future Priorities; Report of the 2020 NIDIS Flash Drought Virtual Workshop. NOAA National Integrated Drought Information System.
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Book Chapters

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