Andrew Hoell — Publications

PEER-REVIEWED JOURNAL ARTICLES

111. Anderson, W., Becker-Reshef, I., Bodanac, N., Carneiro, B., English, D., **Hoell, A.**, Hoffine, T., Liu, Y. Y., Machefer, M., Meroni, M., Raleigh, C., Tatem, A., Trigwell, R., Vesco, P., & Vos, R. (2026). Responsible use of artificial intelligence and machine learning for food security early warning systems. *Nature Food*. https://doi.org/10.1038/s43016-026-01400-6

110. Worsnop, R. P., **Hoell, A.**, Hatchett, B. J., Chapman, T. B., Breeden, M. L., Tolby, Z., Short, K. C., & Hobbins, M. T. (2026). Characterizing windows of opportunity for prescribed pile and broadcast burning in Northern California. *Fire Ecology, 22*, 51. https://doi.org/10.1186/s42408-026-00492-6

109. Moore, B. J., Dias, J., **Hoell, A.**, Tulich, S., Gehne, M., Albers, J. R., Baggett, C., & LaJoie, E. (2026). Impacts of tropical forecast errors on weeks 3–4 extreme precipitation predictions over California during winter 2022–23. *Monthly Weather Review, 154*, 1193–1215. https://doi.org/10.1175/MWR-D-25-0133.1

108. **Hoell, A.**, Robinson, R., Hobbins, M. T., Breeden, M. L., Worsnop, R. P., & Guerrero, E. (2026). The relationship between the El Niño–Southern Oscillation and extensive wildfire area burned in contiguous United States Geographic Area Coordination Centers. *Journal of Geophysical Research: Atmospheres, 131*, e2025JD045436. https://doi.org/10.1029/2025JD045436

107. Toride, K., Hakim, G. J., & **Hoell, A.** (2026). Roles of MJO and tropical–extratropical interactions in subseasonal conditions related to landfalling atmospheric rivers. *Journal of Climate, 39*, 885–901. https://doi.org/10.1175/JCLI-D-25-0211.1

106. Breeden, M. L., **Hoell, A.**, Worsnop, R. P., Albers, J. R., Hobbins, M., Robinson, R. M., & Vimont, D. J. (2025). Seasonal predictability of vapor pressure deficit in the western United States. *Weather and Climate Dynamics, 6*, 1443–1459. https://doi.org/10.5194/wcd-6-1443-2025

105. **Hoell, A.**, Breeden, M. L., Worsnop, R. P., Robinson, R., Agel, L., Anderson, W., Barlow, M., Jayanthi, H., McNally, A., Shukla, S., … (2025). An unexpected outcome followed an apparent seasonal forecast of opportunity and prolonged drought in Southwest Asia. *International Journal of Climatology, 45*(8), e8851. https://doi.org/10.1002/joc.8851

104. Slinski, K., Senay, G. B., Adoum, A., Shukla, S., McNally, A., Rowland, J., Fillol, E., Yatheendradas, S., Funk, C., & **Hoell, A.** (2025). In situ, modeled, and Earth observation monitoring of surface water availability in West African rangelands. *Frontiers in Water, 7*, 1320010. https://doi.org/10.3389/frwa.2025.1320010

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101. Dias, J., Gehne, M., Kiladis, G. N., Wolding, B., & **Hoell, A.** (2025). Robust multi-decadal variability of Madden–Julian Oscillation amplitude in the 20th century. *Geophysical Research Letters, 52*, e2024GL113303. https://doi.org/10.1029/2024GL113303

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83. Breeden, M. L., **Hoell, A.**, Albers, J. R., & Slinski, K. (2023). The monthly evolution of precipitation and warm conveyor belts during the central southwest Asia wet season. *Weather and Climate Dynamics, 4*(4), 963–980. https://doi.org/10.5194/wcd-4-963-2023

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