

## Publications – Melissa L. Breeden, CIRES/NOAA PSL

**Breeden, M. L.**, Hoell, A., Albers, J. R., and Slinksi, K.: The monthly evolution of precipitation and warm conveyor belts during the central southwest Asia wet season, *Weather Clim. Dynam.*, 4, 963–980, <https://doi.org/10.5194/wcd-4-963-2023>, 2023.

Hoell, A., Robinson, R., Agel, L., Barlow, **M., Breeden, M.**, Eischeid, J., McNally, A., Slinksi, K., & Quan, X.: Changes to Middle East and Southwest Asia Compound Drought and Heat Since 1999. *Journal of Climate* (published online ahead of print 2023) <https://doi.org/10.1175/JCLI-D-23-0194.1>.

Elsbury, D., Butler, A. H., Albers, J. R., **Breeden, M. L.**, and Langford, A. O.: The response of the North Pacific jet and stratosphere-to-troposphere transport of ozone over western North America to RCP8.5 climate forcing, *Atmos. Chem. Phys.*, 23, 5101–5117, <https://doi.org/10.5194/acp-23-5101-2023>, 2023.

**Breeden, M. L.**, Albers, J. R., A. Hoell: Subseasonal precipitation forecasts of opportunity over southwest Asia, *Weather Clim. Dynam.*, 3, 1183–1197, <https://doi.org/10.5194/wcd-3-1183-2022>, 2022.

Albers, J. R., Newman, M., Hoell, A., **Breeden, M. L.**, Wang, Y., and Lou, J.: The February 2021 Cold Air Outbreak in the United States: a Subseasonal Forecast of Opportunity, *Bulletin of the American Meteorological Society*, 103(12), E2887-E2904, 2022.

**Breeden, M. L.**, Albers, J. R., Butler, A. H., and Newman, M.: The Spring Minimum in Subseasonal 2-m Temperature Forecast Skill over North America, *Monthly Weather Review*, 150(10), 2617-2628, 2022.

Albers, J. R., Butler, A. H., Langford, A. O., Elsbury, D., **Breeden, M. L.**: Dynamics of ENSO-driven stratosphere-to-troposphere transport of ozone over North America, *Atmos. Chem. Phys.*, 22, 13035–13048, 2022, <https://doi.org/10.5194/acp-22-13035-2022>.

Pettersen, C., Henderson, S. A., Mattingly, K. S., Bennartz, R., and **Breeden, M. L.**: The critical role of Euro-Atlantic blocking in promoting snowfall in central Greenland. *Journal of Geophysical Research: Atmospheres*, 127, e2021JD035776. <https://doi.org/10.1029/2021JD035776>, 2022.

Larson, S. M., Okumura, Y., Bellomo, K., and **Breeden, M. L.**: Destructive Interference of ENSO on North Pacific SST and North American Precipitation Associated with Aleutian Low Variability, *Journal of Climate*, 35(11), 3567-3585, 2022.

Albers, J. R., Butler, A. H., **Breeden, M. L.**, Langford, A. O., and G. N. Kiladis: Subseasonal prediction of springtime Pacific–North American transport using upper-level wind forecasts, *Weather Clim. Dynam.*, 2, 433–452, <https://doi.org/10.5194/wcd-2-433-2021>, 2021.

**Breeden, M. L.**, A. H. Butler, J. R. Albers, M. Sprenger and A. O. Langford: The Spring Transition of the North Pacific Jet and its Relation to Deep Stratosphere-to-Troposphere Mass Transport over Western North America, *Atmos. Chem. Phys.*, 21, 2781–2794, <https://doi.org/10.5194/acp-21-2781-2021>, 2021.

**Breeden, M. L.**, R. Clare, J. E. Martin, and A. R. Desai: Diagnosing the Influence of a Receding Snow Boundary on Simulated Midlatitude Cyclones Using Piecewise Potential Vorticity Inversion. *Mon. Wea. Rev.*, **148**, 4479–4495, <https://doi.org/10.1175/MWR-D-20-0056.1>, 2020.

**Breeden, M. L.**, B. T. Hoover, M. Newman, and D. J. Vimont Optimal North Pacific Blocking Precursors and Their Deterministic Subseasonal Evolution during Boreal Winter. *Mon. Wea. Rev.*, **148**, 739–761, <https://doi.org/10.1175/MWR-D-19-0273.1>, 2020.

**Breeden, M. L.** and J. E. Martin: Evidence for Nonlinear Processes in fostering a North Pacific Jet Retraction, *Quart. J. Roy. Meteor. Soc.*, **145**, 1559-1570. doi:10.1002/qj.3512, 2019.

**Breeden, M. L.** and J. E. Martin, 2018: Analysis of the onset of an extreme North Pacific Jet Retraction using Piecewise Tendency Diagnosis, *Quart. J. Roy. Meteor. Soc.*, **144**, 1895-1913. doi: 10.1002/qj.3388, 2018.

**Breeden, M. L.** and G. A. McKinley: Climate Impacts on Multidecadal North Atlantic pCO<sub>2</sub> Variability: 1948-2009. *Biogeosciences*, **13**, 3387-3396. doi:10.5194/bg-13-3387-2016, 2016.