

JOURNAL PUBLICATIONS

- Wick, G.A., **D.L. Jackson** and S.L. Castro, 2023: Assessing the ability of satellite sea surface temperature analyses to resolve spatial variability – the northwest tropical Atlantic ATOMIC region, *Remote Sens. Environ.*, **284**, 113377, <https://doi.org/10.1016/j.rse.2022.113377>.
- Wang, H., L. Xu, M. Hughes, M. Chelliah, D. DeWitt, B. Fuchs, and **D.L. Jackson**, 2022: Potential caveats in land surface model evaluations using the U.S. Drought Monitor: Roles of base periods and drought indicators, *Environ. Res. Lett.*, **17** 014011, <https://doi.org/10.1088/1748-9326/ac3f63>.
- Penland, C., M.D. Fowler, **D.L. Jackson**, and R. Cifelli, 2021: Forecasts of Opportunity for Northern California Soil Moisture. *Land*, **10** (7), 713, <https://doi.org/10.3390/land10070713>.
- Dole, R.M., J.R. Spackman, M. Newman, G.P. Compo, C.A. Smith, L.M. Hartten, J.J. Barsugli, R.S. Webb, M.P. Hoerling, R. Cifelli, K. Wolter, C.D. Barnett, M. Gehne, R. Gelaro, G.N. Kiladis, S. Abbott, E. Akish, J. Albers, J.M. Brown, C.J. Cox, L. Darby, G. de Boer, B. DeLuise, J. Dias, J. Dunion, J. Eischeid, C. Fairall, A. Gambacorta, B.K. Gorton, A. Hoell, J. Intrieri, **D. Jackson**, P.E. Johnston, R. Lataitis, K.M. Mahoney, K. McCaffrey, H.A. McColl, M.J. Mueller, D. Murray, P.J. Neiman, W. Otto, O. Persson, X.-W. Quan, I. Rangwala, A.J. Ray, D. Reynolds, E.R. Dellariipa, K. Rosenlof, N. Sakaeda, P.D. Sardeshmukh, L.C. Slivinski, L. Smith, A. Solomon, D. Swales, S. Tulich, A. White, G. Wick, M.G. Winterkorn, D.E. Wolfe, and R. Zamora, 2018: Advancing Science and Services during the 2015-16 El Niño: The NOAA El Niño Rapid Response Field Campaign, *Amer. Meteor. Soc. Bull.*, **99**, 975-1001, <https://doi.org/10.1175/BAMS-D-16-0219.1>
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ORAL PRESENTATIONS

- Jackson, D.L.**, and C. Penland, The LIMBox: A tool for soil moisture forecasting, *Special Symposium on Forecasting a Continuum of Environmental Threats (FACETs)*, Denver, CO, January 8-12, 2023.
- Inamdar, A., L. Shi, H.T. Lee, **D. Jackson**, Extending HIRS-like data record using Infrared Atmospheric Sounding Interferometer (IASI), *19th Annual Symposium on New Generation Operational Environmental Satellite Systems*, Denver, CO, January 8-12, 2023.
- de Boer, G., A. White, R. Cifelli, Ti. Meyers, K. Lantz, J. Intrieri, E. Hulm, M. Hughes, K. Mahoney, J. Elston, J. Hamilton, J. Reithel, J. Sedlar, L. Riihimaki, **D. Jackson**, A. Morales, B. Adler, R. Currier, L. Bianco, J. Wilczak, C. Cox, M. Meyers, M. Stachura, J. Pinto, E. Smith, A. Jensen, S. Morris, M. Gallagher, and R. Webb, The Study of Precipitation, the Lower Atmosphere and Surface for Hydrometeorology (SPLASH) -- Outcomes from the first year of observations, *2022 AGU Fall Meeting*, Chicago, IL, December 12-16, 2022.
- Wick, G.A., **D.L. Jackson**, and S.L. Castro, 2022: Assessing the ability of satellites to resolve spatial SST variability: The northwest tropical Atlantic ATOMIC region, *AMS Collective Madison Meeting*, Madison, WI, August 8-12, 2022.
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- Hobbins, M.T., **D.L. Jackson**, M. Hughes, M. Woloszyn, A rigorous attribution of the demand side of drought: a case study in the Midwest U.S., *EGU General Assembly 2022*, Vienna, Austria, May 23-27, 2022.
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- Jackson, D.L.**, M. Hughes, M. Hobbins, R. Cifelli, and R Webb, 2020: A drought monitoring case study using National Water Model soil moisture and National Soil Moisture Network data, *2020 National Soil Moisture Workshop*, Virtual, August 12-13, 2020.
- Wick, G.A., S.L. Castro, and **D.L. Jackson**, 2019: Characterizing extreme diurnal warming in satellite-derived operational sea surface temperature products, *20th GRHSST Science Team Meeting*, Frascati, Italy, June 3-7, 2019.
- Hughes, M., **D. Jackson**, K. Sparrow, and F. Salas, 2019: Application of National Water Model for drought monitoring, Sustainable Water Management Conference, Tucson, AZ, March 31-April 3, 2019.
- Wilczak, J.M., K. McCaffrey, C. Draxl, R.M Banta, J.B. Olson, M.T. Soelinga, L.K. Berg, L. Bianco, A. Choukulkar, I.V. Djalalova, E.P. Gritmit, **D.L. Jackson**, J. Kenyon, P. Muradyn, Y. Pichugina, J. Sharp, W.J. Shaw, and R. Worsnop, 2019: Improved Understanding and Modeling of Key Atmospheric Phenomena during WFIP2: Cold Pools, Gap Flows, and Mountain Waves, *10th Conference on Weather, Climate, and New Energy Economy*, Phoenix, AZ, January 6-10, 2019.
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- Menzel, W.P., E. Olson, U. Kolat, E. Weisz, R. Holz, B. Baum, A. Heidinger, M. Pavolonis, D. Wylie, **D. Jackson**, and J. Bates: Inferring global cloud cover properties and trends from 30 years of HIRS data, *The 17th International TOVS Study Conference (ITSC-17)*, Monterey, CA, April 13-20, 2010.
- Jackson, D.L.**, and G.A. Wick, 2010: Status on multi-sensor approach to satellite-based retrievals of near-surface humidity and temperature, *US CLIVAR/Seaflux Workshop, Surface Fluxes: Challenges for High Latitudes*, Boulder, CO, March 17-19, 2010.
- Jackson, D.L.**, and G.A. Wick, 2010: Recent developments on the assessment of gas transfer velocities derived using satellite inputs with the COARE gas transfer model, *17th Conference on Air-Sea Interaction*, Annapolis, MD, September 26-30, 2010.
- Gastineau, G., B. Soden, **D. Jackson**, C. O'Dell, and G. Stephens, 2010: The enhancement of clear sky greenhouse effect in HIRS, *EGU General Assembly 2010*, Vienna, Austria, May 2-7, 2010
- Jackson, D.L.**, and G.A. Wick, 2009: Evaluation and comparison of satellite-derived estimates of the gas transfer velocity with direct observations from research vessels, *16th Conference on Satellite Meteorology and Oceanography*, Phoenix, AZ, January 11-15, 2009.
- Wick, G.A., and **D.L. Jackson**, 2008: Evaluation of satellite-derived estimates of the gas transfer velocity using direct observations from research vessels. *AGU 2008 Fall Meeting*, San Francisco, California, December 15-19, 2008.
- Jackson, D.L.**, and G.A. Wick, 2008: Application of Near-surface *In Situ* Oceanic Observations for Improved Satellite-based Retrievals of Near-surface Temperature and Humidity, *2nd Joint GOSUD/SAMOS Workshop*, Seattle, WA, June 10-12, 2008.
- Jackson, D.L.**, G.A. Wick, and F.R. Robertson, 2007: Retrieval, validation, and multi-year analysis of near-surface humidity and temperature from satellite microwave observations from SSM/I, SSM/T-2 and AMSU-A. *2007 EUMETSAT Meteorological Satellite Conference and 15th Satellite Meteorology and Oceanography Conference*, Amsterdam, The Netherlands, September 24-28, 2007.
- Robertson, F.R., B. Roberts, **D.L. Jackson**, G.A. Wick, and T. Miller, 2007: ENSO and Decadal Variability of Ocean Surface Latent Heat Flux As Seen From Passive Microwave Satellite Algorithms. *2007 EUMETSAT Meteorological Satellite Conference and the 15th Satellite Meteorology & Oceanography Conference*, Amsterdam, The Netherlands, September 24-28, 2007.
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- Menzel, W.P., D.P. Wylie, **D.L. Jackson**, and J.J. Bates: Using 22 years of HIRS observations to infer global cloud cover trends, *The 14th International TOVS Study Conference (ITSC-14)*, Beijing, China, May 25-31, 2005.
- Smith, D., A. Gasiewski, **D. Jackson**, and G. Wick, 2004: Spatial Scales of Tropical Precipitation Inferred from TRMM Microwave Imager Data. *19th Conference on Hydrology*, San Francisco, California, January 9-13, 2005.
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- Menzel, W.P., D.P. Wylie, **D.L. Jackson** and J.J. Bates, 2004: Using 22 years of HIRS observations to infer global cloud cover. *29th Annual Climate Diagnostics & Prediction Workshop*, Madison, Wisconsin, October 18-21, 2004.
- Wick, G.A., **D.L. Jackson**, S.L. Castro, 2004: Production of an enhanced blended infrared and microwave sea surface temperature product. *2004 International Geoscience and Remote Sensing Symposium (IGARSS) Annual Meeting*, Anchorage, Alaska, September 20-24, 2004.
- Smith, D., A. Gasiewski, **D. Jackson**, and G. Wick, 2004: Local Spatial Scales of Tropical Deep Convection Inferred from TRMM Precipitation Data. *2004 International Geoscience and Remote Sensing Symposium (IGARSS) Annual Meeting*, Anchorage, Alaska, September 20-24, 2004.
- Smith, D., A. Gasiewski, **D. Jackson**, and G. Wick, 2004: Local scales of tropical deep convection inferred from TMI precipitation data. *8th Specialist Meeting on Microwave Radiometry and Remote Sensing Applications*, Rome, Italy, February 24-27, 2004.
- Wylie, D., **D.L. Jackson**, P. Menzel, and J.J. Bates, 2004: Trends in high clouds over the past 22 years. *15th Symposium on Global Change and Climate Variations*, Seattle, Washington, January 11-15, 2004.
- Smith, D., A. Gasiewski, **D. Jackson**, and G. Wick, 2003: Local spatial scales of tropical deep convection inferred from SSM/I precipitation data. *AGU 2003 Fall Meeting*, San Francisco, CA, December 8-12, 2003.

POSTER PRESENTATIONS

- Wick, G.A., **D.L. Jackson**, and S.L. Castro, 2022: Assessing the ability of satellites to resolve spatial SST variability: The northwest tropical Atlantic ATOMIC region, *2022 GRHST International Science Team Meeting*, Barcelona, Spain, June 27-July 1, 2022.
- Fowler, M., C. Penland, **D.L. Jackson**, and R. Cifelli, 2020, Forecasting Soil Moisture in Northern California using a Linear Inverse Model, *AGU 2020 Fall Meeting*, Virtual Meeting, December 7-11, 2020.
- Fowler, M., C. Penland, **D. Jackson**, and R. Cifelli, 2020: Predictability of Northern California Soil Moisture, *2020 CIRES Rendezvous Science Symposium*, Virtual Meeting, August 14, 2020.
- Hughes, M., **D. Jackson**, R. Cifelli, M. Hobbins, R. Webb, D. Unruh, F. Salas, M. Glaudemans, J. Meng, and H. Wang, 2020: Application of the National Water Model for Drought Monitoring, *19th Conference on Mountain Meteorology*, Virtual Meeting, July 13-17, 2020.
- Wick, G.A., S.L. Castro, and **D.L. Jackson**, 2020: Characterizing extreme diurnal warming in satellite-derived operational sea surface temperature products, *2020 Ocean Sciences Meeting*, San Diego, CA, February 16-21, 2020.
- Jackson, D.L.**, M. Hughes, R. Zamora, R. Cifelli, M. Hobbins, and R. Webb, 2019: Assessing National Water Model and North American Land Data Assimilation soil moisture using National Soil Moisture Network data, *The 2019 National Soil Moisture Workshop*, Manhattan, KS, May 22-24, 2019.
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