

JOURNAL PUBLICATIONS

- Hughes, M., **D.L. Jackson**, D. Unruh, H. Wang, M. Hobbins, F.L. Ogden, R. Cifelli, B. Cosgrove, D. DeWitt, A. Duggar, T.W. Ford, B. Fuchs, M. Glaudemans, D. Gochis, S.M. Quiring, A. RafieeiNasaband, R.S. Webb, Y. Xia, and L. Xu, 2024: Evaluation of retrospective National Water Model soil moisture and streamflow for drought-monitoring applications, *J. Geophys. Res. Atmos.*, <https://doi.org/10.1029/2023JD038522>.
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ORAL PRESENTATIONS

- Hughes, M., N. Acharya, W.R. Currier, M. Hobbins, **D. Jackson**, E. Sthapit, and R. Cifelli, 2024, Improving NOAA's water tools through physical process, data-driven, and hybrid modeling techniques, 2024 AMS Annual Meeting, Baltimore, MD, January 28- February 1, 2024
- 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, The Study of Precipitation, the Lower Atmosphere and Surface for Hydrometeorology (SPLASH) – Overview and Perspectives on Two Years in the Rocky Mountains, 36th Conference on Alpine Meteorology, St. Gallen, Switzerland, June 19-23, 2023.
- 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.
- Hobbins, M.T., **D.L. Jackson**, M. Hughes, and M. Woloszyn, A rigorous attribution of the demand side of agricultural drought: a case study in the Midwest U.S., 36th Conference on Hydrology, Houston, Texas, January 23-27, 2022.
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- Hughes, M., **D. Jackson**, B. Zamora, R. Cifelli, M. Hobbins, R. Webb, K. Mo, J. Meng, D. Dewitt, F. Salas, and K. Sparrow, 2018: Development of Prototype National Water Model Products for Drought Monitoring, *16th Annual Climate Prediction Applications Science Workshop*, Fargo, North Dakota, May 22, 2018.
- Hughes, M., **D. Jackson**, B. Zamora, R. Cifelli, M. Hobbins, R. Webb, K. Mo, J. Meng, D. DeWitt, F. Salas, K. Sparrow, and P. Colohan, 2018: Development of Prototype National Water Model Products for Drought Monitoring, *2018 MOISST Workshop*, Lincoln, NE, June 4, 2018.
- Hughes, M., **D. Jackson**, B. Zamora, R. Cifelli, M. Hobbins, R. Webb, D. DeWitt, and P. Colohan, 2018: Development of Prototype National Water Model Products for Drought Monitoring, *18th Conference on Mountain Meteorology*, Sante Fe, New Mexico, June 24, 2018.
- Neiman, P.J., A.B. White, G.A. Wick, **D.L. Jackson**, and J.R. Spackman, 2015: An airborne and ground-based study of a long-lived and intense atmospheric river impacting California during the CalWater-2014 early-start field campaign, *AGU 2015 Fall Meeting*, San Francisco, CA, December 13-18, 2015.
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- Wick, G.A. and **D.L. Jackson**, 2014: Satellite-derived near surface temperature and humidity: recent progress and new validation, *4th JCOMM Workshop on Advances in Marine Climatology*, Asheville, NC, June 9-12, 2014.
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- Wick, G.A., **D.L. Jackson**, and D. Reynolds, 2014: Application and extension of the automated Atmospheric River Detection Tool in HMT, *NOAA Testbeds Meeting*, Washington, D.C., April 16-18, 2014.
- Wick, G.A. and **D.L. Jackson**, 2012: The impact of uncertainties in the input parameters on the uncertainty of satellite-derived flux estimates, *CLIVAR-GSOP Ocean Synthesis and Air-Sea Flux Evaluation Workshop*, Woods Hole, MA, November 27-30, 2012.
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- 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.
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- 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.
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- Jackson, D.L.**, G.A. Wick, and S.L. Castro, 2006: Impact of error characterization and diurnal warming corrections on multi-sensor SST analyses. *2006 International Geoscience and Remote Sensing Symposium (IGARSS) Annual Meeting & 27th Canadian Symposium on Remote Sensing*, Denver, CO, July 31-August 4, 2006.
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- 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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POSTER PRESENTATIONS

- Intrieri, J., C. Cox, **D. Jackson**, B. Butterworth, M. Gallagher, T. Myers, J. Longenecker, M. Stachura, J. Elston, and G. de Boer, Soil moisture measurements obtained in Colorado's East River valley watershed during the SPLASH campaign, *2023 AGU Fall Meeting*, San Francisco, CA, December 11-15, 2023.
- Inamdar, A., L. Shi, H.T. Lee, **D.L. Jackson**, Further extending the HIRS-like data using the CrIS sensor, *2023 AGU Fall Meeting*, San Francisco, CA, December 11-15, 2023.
- 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 GRHSST 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.
- Jackson, D.L.**, M. Hughes, R. Zamora, R. Cifelli, M. Hobbins, and R. Webb: Characteristics of NWM and NLDAS Soil Moisture Climatological Distributions in the Mediterranean Climate of the Russian River Basin, *33rd Conference on Hydrology*, Phoenix, AZ, January 6-10, 2019.
- Hughes, M., **D.L. Jackson**, B.J. Zamora, R. Cifelli, M. Hobbins, F. Salas, K. Sparrow, R. Webb, D. DeWitt, and P. Colohan, Development of Prototype National Water Model Products for Drought Monitoring, *AGU 2018 Fall Meeting*, Washington, D.C., December 10-14, 2018.

- Hughes, M., **D. Jackson**, R. Zamora, R. Cifelli, M. Hobbs, R. Webb, D. DeWitt, and P. Colohan: Development of Prototype National Water Model Soil Moisture Products for Drought Monitoring, *NOAA General Modeling Meeting and Fair*, College Park, MD, September 10-12, 2018.
- Hughes, M., **D. Jackson**, R. Zamora, R. Cifelli, R.S. Webb, D. DeWitt, and P. Colohan, 2018: Development of prototype national water model soil moisture products for drought monitoring, *32nd Conference on Hydrology*, Austin, TX, January 7-11, 2018.
- Jackson, D.L.**, and G.A. Wick, 2017: Error characteristics of satellite-derived near surface humidity and temperature data set using Global Hawk dropsonde data, *2017 CIRES Rendezvous Science Symposium*, Boulder, CO, May 18, 2017.
- Jackson, D.L.**, and G.A. Wick, 2016: Development of a 28-Year (1987-2014) climatology of single and multi-sensor satellite-based retrievals of near-surface humidity and temperature, *20th Conference on Air-Sea Interactions*, Madison, Wisconsin, August 14-19, 2016.
- Wick, G., **D. Jackson**, and S. Castro, 2016: Characterizing diurnal warming in satellite sea surface temperature products and its impact on air-sea interactions, *NASA Workshop on Coupled Ocean Surface Variables*, Seattle, WA, April 12-14, 2016.
- Jackson, D.L.** and G.A. Wick, 2015: Validation of Satellite-Derived Near-Surface Air Temperature and Humidity using Dropsondes, *19th Conference on Air-Sea Interaction*, Phoenix, Arizona, January 4-8 2015.
- Mahoney, K., **D. Jackson**, E. Sukovich, G. Wick, P. Neiman, R. Cifelli, and A. White, 2014: Atmospheric rivers and the connection to southeast US heavy rainfall events, *2014 AGU Fall Meeting*, San Francisco, CA, December 15-19, 2014.
- Jackson, D.L.** and G.A. Wick, 2014: Recent improvements to a multi-sensor satellite-based retrieval of near-surface humidity, temperature, and surface heat fluxes, *2014 Ocean Sciences Meeting*, Honolulu, Hawaii, February 24-28, 2014.
- Jackson, D.L.** and G.A. Wick, 2013: Analysis of uncertainties in carbon dioxide transfer velocity due to uncertainties in satellite inputs to the COARE gas transfer model, *2013 EUMETSAT Meteorological Satellite Conference and 19th Satellite Meteorology and Oceanography Conference*, Vienna, Austria, September 16-20, 2013.
- Smith, S.R., M.A. Bourassa, J. Rolph, K. Briggs, and **D.L. Jackson**, 2012: SAMOS - Supporting Marine Atmosphere-Ocean Research. *NOAA Ocean Climate Observation 8th Annual PI Meeting*, Silver Spring, MD, June 25-27, 2012.
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- Jackson, D.L.**, G.A. Wick, and S.R. Smith, 2012: Evaluation of the satellite microwave multi-sensor retrieval of near-surface humidity and temperature using SAMOS observations and implications on satellite-derived heat and gas flux products. *18th Conference on Satellite Meteorology, Oceanography, and Climatology / First Joint AMS-Asia Satellite Meteorology Conference*, New Orleans, LA, January 22-26, 2012.
- Jackson D.L.** and G.A. Wick, 2011: Assessment of satellite-derived air-sea gas transfer velocities. *ESA Meeting on Earth Observation for Ocean-Atmosphere Interaction Science*, Frascati, Italy, November 29 - December 2, 2011.
- Smith, S.R., M.A. Bourassa, J.J. Rolph, K. Briggs, and **D.L. Jackson**, 2011: Observations for climate: Shipboard automated meteorological and oceanographic systems on research vessels. *WCRP OSC Climate Research in Service to Society*, Denver, CO, October 24-28, 2011.
- Jackson, D.L.** and G.A. Wick, 2011: Assessment of gas transfer velocities derived using satellite inputs with the COARE gas transfer model. *CIRES Rendezvous Science Symposium*, Boulder, CO, April 22, 2011.
- Smith, S.R., M. Bourassa, F. Bradley, C. Cosca, C. Fairall, G. Goni, J. Gunn, M. Hood, **D. Jackson**, G. Lagerloef, E. Kent, L. Petit de la Villeon, P. McGillivray, R. Pinker, E. Schulz, J. Sprintall, D. Stammer, G. Wick, A. Wiell, and M. Yelland, 2009: Automated Underway Oceanic and Atmospheric Measurements from Ships, *OceanObs'09*, Venice, Italy, Sep 21-25, 2009.
- Jackson, D.L.**, and G.A. Wick, 2009: Assessment of satellite-derived air-sea transfer velocities, *NASA Ocean Color Research Team Meeting*, New York, NY, May 4-6, 2009.
- Robertson, F.R., T.L. Miller, **D.L. Jackson**, and M. Bosilovich, 2008: Water vapor feedback and links to mechanisms of recent tropical climate variations, *AGU Chapman Conference on Water Vapor and its Role in Climate*, Kailua-Kona, Hawaii, October 20-24, 2008.
- John, V.O., S.A. Buehler, M. Kuvatov, B.J. Soden, and **D.L. Jackson**, 2008: Upper tropospheric humidity data set from operational microwave sounders. *AGU Chapman Conference on Water Vapor and its Role in Climate*, Kailua-Kona, Hawaii, October 20-24, 2008.
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- Jackson, D.L.** and G.A. Wick, 2004: Near-surface retrieval of air temperature and specific humidity using multi-sensor microwave satellite observations. *13th Conference on Satellite Meteorology and Oceanography*, Norfolk, Virginia, September 20-23, 2004.
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- Breon, F.-M., **D.L. Jackson**, and J.J. Bates, 2000: Calibration of the Meteosat water vapor channel using coincident NOAA/HIRS-12 measurements. *Tenth Conference on Satellite Meteorology*, Long Beach, CA, January 10-14, 2000.
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DATASETS

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- Elston, J., **D. Jackson**, M. Stachura, G. de Boer, J. Intrieri, and E. Dai, 2023: BST/NOAA PSL Level 2 UAS Soil Moisture, Digital Elevation, Normalized Difference Vegetative Index, and Surface Temperature for SPLASH (v2.1) [Data set]. Zenodo. <https://doi.org/10.5281/zenodo.7622355>
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OTHER CONTRIBUTIONS

- Penland, C., M.D. Fowler, **D.L. Jackson**, and R. Cifelli, 2021: New research investigates the predictability of soil moisture in northern California, *NOAA OAR Hot Item*, September 2021.
- Smith, S.R., M.A. Bourassa, K. Briggs, and J. Elay, 2019: Contributions to the climate record of research vessel underway data from the FSU's Marine Data Center, *CLIMAR-5: Fifth JCOMM Workshop on Advances in Marine Climatology*, May 6-8, 2019, Hamburg, Germany. Contributed two slides in oral presentation regarding satellite-derived near surface humidity and temperature retrieval.
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- Berwald, J., 2011: Sky Rivers, *National Geographic*, September 2011, 1pp. Contributed data for atmospheric river image.
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- Jackson, D.L.**, 1992: On the role of SSM/I derived precipitable water over the globe and tropical pacific. M.S. Thesis, Colorado State University, 112 pp