

Peer-reviewed journal publications:

Bell, J. R. and **A. L. Molthan** 2016 (in press): Evaluation of Approaches to Identifying Hail Damage to Crop Vegetation Using Satellite Imagery. *J. Operational Meteor.*

Berndt, E. B., B. T. Zavodsky, and M. J. Folmer, 2015: Development and Application of Atmospheric Infrared Sounder Ozone Retrieval Products for Operational Meteorology. *IEEE Trans. Geosci. Remote Sens.*, 54 (2), 958-967

Bikos, D., J. Finch, and **J. L. Case**, 2016: The environment associated with significant tornadoes in Bangladesh. *Atmos. Res.*, 167, 183–195

Blankenship, C. B., J. L. Case, B. T. Zavodsky, and W. L. Crosson, 2016 (in press): Assimilation of SMOS Retrievals in the Land Information System. *IEEE Trans. Geosci. Remote Sens.*

Case, J. L., F. J. La Fontaine, J. R. Bell, G. J. Jedlovec, S. V. Kumar, and C. D. Peters-Lidard, 2014: A Real-Time MODIS Vegetation Product for Land Surface and Numerical Weather Prediction Models. *IEEE Trans. Geoscience and Rem. Sensing*, 52: 3. pp. 1772-1786

Chronis, T., K. Cummins, R. Said, W. Koshak, E. McCaul, E. R. Williams, **G. T. Stano,** and M. Grant (2015), Climatological diurnal variation of negative CG lightning peak current over the continental United States, *J. Geophys. Res. Atmos.*, 120, 582–589

Elmer, N. J., E. Berndt, and **G. Jedlovec**, 2016. Limb correction of MODIS and VIIRS infrared channels for the improved interpretation of RGB composites. *J. Atmos. Oceanic Technol.*, 33(5), 1073-1087

Folmer, M. J., M. DeMaria, R. Ferraro, J. Beven, M. Brennan, J. Daniels, R. Kuligowski, H. Meng, S. Rudlosky, L. Zhao, J. Knaff, S. Kusselson, S. D. Miller, T. J. Schmit, C. Velden, and **B. Zavodsky**, 2015: Satellite tools to monitor and predict Hurricane Sandy (2012): Current and emerging products. *Atmos. Res.*, 166, 165–181

Fuell, K. K., B. J. Guyer, D. Kann, **A. L. Molthan,** and **N. Elmer**, 2016: Next generation satellite RGB dust imagery leads to operational changes at NWS Albuquerque. *J. Operational Meteor.*, 4(6), 75–91

Gravelle, C. M., J. R. Mecikalski, W. E. Line, K. M. Bedka, R. A. Petersen, J. M. Sieglaff, **G. T. Stano,** and S. J. Goodman, 2016: Demonstration of a GOES-R Satellite Convective Toolkit to “Bridge the Gap” between Severe Weather Watches and Warnings: An Example from the 20 May 2013 Moore, Oklahoma, Tornado Outbreak. *Bull. Am. Meteorol. Soc.*, 97, 69–84

LeRoy, A., K. K. Fuell, A. L. Molthan, G. J. Jedlovec, J. M. Forsythe, S. Q. Kidder, and A. S. Jones, 2016: The operational use and assessment of a layered precipitable water product for weather forecasting. *J. Operational Meteor.*, 4 (2), 22–33

Molthan, A. L., J. L. Case, J. Venner, R. Schroeder, M. R. Checchi, **B. T. Zavodsky,** A. Limaye, and R. G. O’Brien, 2015: Clouds in the cloud: Weather forecasts and applications within cloud computing environments. *Bull. Amer. Meteor. Soc.*, 96, 1369-1379

Molthan, A. L., J. R. Bell, T. A. Cole, and **J. E. Burks**, 2014: Satellite-based identification of tornado damage tracks from the 27 April 2011 severe weather outbreak. *J. Operational Meteor.*, 2 (16), 191–208

Naeger, A.R., P. Gupta, **B. Zavodsky**, and **K. McGrath** 2016: Monitoring and Tracking the TransPacific Transport of Asian Aerosols Using Multi-Satellite Aerosol Optical Depth Retrievals, *Atmos. Meas. Tech.*, 9, 2463-2482

Stano, G. T., **C. J. Schultz**, L. D. Carey, D. R. MacGorman, and K. M. Calhoun, 2014: Total lightning observations and tools for the 20 May 2013 Moore, Oklahoma, tornadic supercell. *J. Operational Meteor.*, 2 (7), 71–88

Zavodsky, B., **G. T. Stano**, and **W. W. Vaughan**, 2016: Flash of Genius. *Met. Tech. International*, April 2016, 32-36

Zavodsky, B. T. and **W. W. Vaughan**, 2015: Transitioning NASA and NOAA Satellite Products, Modeling & Data Assimilation Techniques, and Nowcasting Tools to Operation. *AMS Certified Consulting Meteorologist Newsletter*, Vol. 6, Issue 2, Summer 2015

Major Conference Presentations

96th AMS Annual Meeting—New Orleans, Louisiana, 10-14 January 2016

Bell, J. R. and **A. L. Molthan**: Near-Real Time Severe Weather Damage Identification Algorithm for Vegetation: Development and Early Results, 12th Annual Symposium on New Generation Operational Environmental Satellite Systems

Berndt, E., M. J. Folmer, J. Halverson, and J. Dunion: An Analysis of the Extratropical Transition of Hurricane Arthur (2014) from a JPSS Proving Ground Perspective, 12th Annual Symposium on New Generation Operational Environmental Satellite Systems

Berndt, E., **A. Naeger**, **B. T. Zavodsky**, **K. M. McGrath**, and **F. J. LaFontaine**: Development, Application, and Transition to Operations of Aerosol and Trace Gas Products Derived from Next-Generation Satellite Observations, 12th Annual Symposium on New Generation Operational Environmental Satellite Systems

Blankenship, C. B., **J. L. Case** and **B. T. Zavodsky**: Data Assimilation of SMAP Soil Moisture in a 3-km Regional Model, 30th Conference on Hydrology

Blankenship, C. B., A. S. Limaye and F. Mitheu: GPM Rainfall-based Streamflow Analyses for East Africa, Peter Lamb Symposium

Burks, J. E.: Activities in the Experimental Products Development Team at SPoRT, 32nd Conference on Environmental Information Processing Technologies

Case, J. L., J. Mungai, V. Sakwa, **B. T. Zavodsky**, J. Srikishen, A. S. Limaye, and **C. B. Blankenship**: Transitioning Enhanced Land Surface Initialization and Model Verification Capabilities to the Kenya Meteorological Service, Peter Lamb Symposium

Case, J. L., **K. D. White**, B. Guyer, J. Meyer, **J. Srikishen**, **C. B. Blankenship**, and **B. T. Zavodsky**: Real-time Land Information System over the Continental U.S. for Situational Awareness and Local Numerical Weather Prediction Applications, 30th Conference on Hydrology

Cole, T. A., A. L. Molthan and L. A. Schultz: Characterization of Nighttime Light Variability over the Southeastern United States, 12th Annual Symposium on New Generation Operational Environmental Satellite Systems

Elmer, N. J., E. Berndt and G. J. Jedlovec: Limb Correction of Infrared Imagery in Cloudy Regions for the Improved Interpretation of RGB Composites, 12th Annual Symposium on New Generation Operational Environmental Satellite Systems

Fairman, S. I., and **G. J. Jedlovec:** An Improved Approach for Automated Cloud Detection in VIIRS Imagery, 12th Annual Symposium on New Generation Operational Environmental Satellite Systems

Fuell, K. K., G. T. Stano, A. LeRoy, L. A. Schultz, E. Berndt, M. R. Smith, A. L. Molthan, and B. T. Zavadsky: Recent Product Assessments and User Readiness Activities at SPoRT with NASA's Short-term Prediction Research and Transition (SPoRT) Center, 12th Annual Symposium on New Generation Operational Environmental Satellite Systems

Iskenderian, H., M. S. Veillette, C. J. Mattioli, P. M. Lamey, E. P. Hassey, J. R. Mecikalski, **G. T. Stano,** and R. Bass: Satellite Data Applications for Offshore Aviation Weather, 12th Annual Symposium on New Generation Operational Environmental Satellite Systems

Li, X., and **B. T. Zavadsky,** and J. R. Mecikalski: Assimilation of GPM GMI rainfall product with GSI system, 20th Conference on Integrated Observing and Assimilation Systems for the Atmosphere, Oceans, and Land Surface (IOAS-AOLS)

Mecikalski, J. R., C. P. Jewett, L. Carey, T. Chronis, **G. T. Stano,** and **B. T. Zavadsky:** Combining Satellite and Radar in the Development of a 0-1 hour Lightning Threat Algorithm, 18th Symposium on Meteorological Observation and Instrumentation

Molthan, A. L., J. E. Burks and J. R. Bell: Interactive Computing and Processing of NASA Land Surface Observations using Google Earth Engine, 32nd Conference on Environmental Information Processing Technologies

Naeger, A. J. M. Creamean and A. L. Molthan: Impact of aerosols on precipitation associated with atmospheric rivers: An observational and model-based approach, Eighth Symposium on Aerosol-Cloud-Climate Interactions

Schultz, L. A., K. Angle, T. Cole, K. Skow, J. Bell, A. L. Molthan, J. E. Burks, and K. M. McGrath: Applications of Satellite Imagery Applications to Assist in Storm Damage Assessment, Fourth Symposium on Building a Weather-Ready Nation: Enhancing Our Nation's Readiness, Responsiveness, and Resilience to High Impact Weather Events

Smith, M. R., A. LeRoy, J. L. Case, and D. T. Bolvin: Initial Results of Integrating GPM/IMERG Precipitation Data into Operational Forecasting Environments, 30th Conference on Hydrology

Zavadsky, B. T., J. L. Case, and **K. D. White:** Development of an Objective High Spatial Resolution Soil Moisture Index, 30th Conference on Hydrology

2015 AGU Fall Meeting—San Francisco, California, 14-18 December

Burks, J. E., A. Molthan, L. A. Schultz, K. McGrath, J. R. Bell, T. Cole and K. Angle: Applications of Earth Remote Sensing for Identifying Tornado and Severe Weather Damage, Near Real Time Data for Earth Science and Space Weather Applications II, Earth and Science Informatics Section

Cole, T., A. Molthan, and **L. A. Schultz:** Characterization of Nighttime Light Variability over the Southeastern United States, Emerging Issues in Nighttime Environmental Remote Sensing and Earth System Science Applications II Posters, Global Environmental Change Section

Diaz, E., F. Webb, D.S. Green, T. Stough, D. Kirschbaum, H. M. Goodman, and **A. Molthan:** NASA Response to Nepal Quake, Near Real Time Data for Earth Science and Space Weather Applications I, Earth and Space Science Informatics

Folmer, M. J., **E. Berndt,** J. Halverson, J. Dunion, and M. Goldberg: An Analysis of the Extratropical Transition of Hurricane Arthur (2014) from a JPSS Proving Ground Perspective, Space-Based, Operational Global Earth Observations from S-NPP and JPSS II Posters, Earth and Space Science Informatics Section

Kim, J., B. Guan, D. Waliser, B. Tian, **J. Case,** T. Iguchi, E. Kemp, W. Putman, W. Wang, and D. Wu: Effects of resolution and spectral nudging in simulating the effects of wintertime atmospheric river landfalls in the Western US, Dynamical Downscaling: Methodology and Assessment Posters, Atmospheric Science Section

Lee, H., D.E. Waliser, **J. Case,** T. Iguchi, and W. Wang: Are high-resolution NASA Unified WRF simulations credible tools for predicting extreme precipitation over the Great Plains, Dynamical Downscaling: Methodology and Assessment Posters, Atmospheric Science Section

Molthan, A., J. E. Burks, K. McGrath, R. Ramachandran, H. M. Goodman: Challenges and Opportunities in Geocuration for Disaster Response (Invited), Geocuration: Issues, Challenges and Opportunities Posters, Earth and Space Science Informatics Section

Molthan, A., J. E. Burks, and **J. R. Bell:** Identifying Severe Weather Impacts and Damage with Google Earth Engine, Natural Hazards Research and Mitigation: Global Navigation Satellite System, Data Diversity, and Emerging Technology I Poster, Natural Hazards Section

Morin, C., D. Quattrochi, **B. Zavadsky** and **J. Case:** Modeled Forecasts of Dengue Fever in San Juan, Puerto Rico using NASA Satellite Enhanced Weather Forecasts, The NASA Public Health and Air Quality Application Program: Integrating Remote Sensing, and Modeling for the Analysis of Environmentally Driven Human Health Risk I Posters, Global Environmental Change Section

Schultz, L. A., M. R. Smith, K. Fuell, G. T. Stano, A. LeRoy, and **E. Berndt:** JPSS Proving Ground Activities with NASA's Short-term Prediction Research and Transition (SPoRT) Center, Space-Based, Operational Global Earth Observations from S-NPP and JPSS II Posters, Earth and Space Informatics Section

Stano, G. T., C. Schultz and W. Koshak: North Alabama Total Lightning Climatology in Support of Lightning Safety Operations, The Meteorology and Climatology of Lightning II Posters, Atmospheric and Space Electricity Section

Wang, W., T. Iguchi, **J. Case,** E. Kemp, W. Putman, D. Wu, R. Ferraro, C. Peters-Lidard, and R. Nemani: Impacts of Lateral-Boundary Condition Errors on Regional Climate Downscaling: Lessons

Learned from the NASA Downscaling Project, Dynamical Downscaling: Methodology and Assessment Posters, Atmospheric Sciences Section

Zavodsky, B., J. Case, K. White and J.R. Bell: Development of Objective High Spatial Resolution Soil Moisture Index, Hydroclimatic Extremes: Drought IV, Hydrology Section

40th NWA Annual Meeting—Oklahoma City, Oklahoma, 17-22 October 2015

Angle, K. T., **A. Molthan**, P. Camp, **J. Burks**, and **L. Schultz**: Application of Earth remote sensing imagery in the NWS Damage Assessment Toolkit. Preprints,

Case, J. L., J. Zhangyan, and M. Vargas: Real-time Suomi-NPP green vegetation fraction for improving numerical weather prediction and situational awareness.

2015 EUMETSAT Meteorological Conference—Toulouse, France, 21-25 September

Blankenship, C. B., B. T. Zavodsky, and J. L. Case: Assimilation of SMOS retrieved soil moisture into the Land Information System

Elmer, N. J., E. B. Berndt, and G. J. Jedlovec: Limb and bias correction of VIIRS and SEVIRI IR channels for the improved interpretation of RGB composites

Fuell, K. K. and G. T. Stano: Operational uses and demonstrations of total lightning in preparation for spacebased platforms

95th AMS Annual Meeting—Phoenix, Arizona, 4-8 January 2015

Bell, J. R., A. L. Molthan, L. A. Schultz, K. McGrath, and J. Burks: Development of a Near-Real Time Hail Damage Swath Identification Algorithm for Vegetation, 20th conference on Satellite Meteorology and Oceanography

Berndt, E. B., B. T. Zavodsky, and G. J. Jedlovec: Development and Application of Hyperspectral Infrared Ozone Retrieval Products for Operational Meteorology, 20th Conf. on Satellite Meteorology and Oceanography

Berndt, E. B., B. T. Zavodsky, J. Srikishen, and C. B. Blankenship: A Module for Assimilating Hyperspectral Infrared Retrieved Profiles into the Gridpoint Statistical Interpolation System for Unique Forecasting Applications, 20th conference on Satellite Meteorology and Oceanography, Joint Satellite Program Poster Session I

Blankenship, C. B., J. L. Case, and B. T. Zavodsky: SMOS soil moisture data assimilation in the NASA Land Information System: Impact on LSM initialization and NWP forecasts, 29th Conf on Hydrology

Burks, J. E.: Experimental Products Development Team (EPDT) Supporting New AWIPS II Capabilities, 31st Conf. on Environmental Information Processing Technologies (EIPT)

Burks, J. E. and K. Sperow: The Tracking Meteogram, an AWIPS II Tool for Time-Series Analysis, 31st Conf. on Environmental Information Processing Technologies (EIPT)

Carcione, B. C., **G. Stano**, and **K. D. White**: Variations in Operational Total Lightning Visualizations, 7th Conference on the Meteorological Applications of Lightning Data

Case, J. L., B. T. Zavadsky, K. D. White, and J. E. Bell: Development of a 30-Year Soil Moisture Climatology for Situational Awareness and Public Health Applications, 29th Conf. on Hydrology

Elmer, N., E. Berndt, G. J. Jedlovec, and **F. LaFontaine**: Limb Correction of Individual Infrared Channels Used in RGB Composite Products, 20th Conf. on Satellite Meteorology and Oceanography

Folmer, M., W. Line, J. Cangialosi, J. Halverson, **E. B. Berndt**, J. Sienkiewicz, S. Goodman, and M. Goldberg: The Unusual Evolution of Hurricane Arthur 2014, 20th Conference on Satellite Meteorology and Oceanography, 11th Symposium on New Generation Operational Environmental Satellite Systems, and Third AMS Symposium on the Joint Center for Satellite Data Assimilation (JCSDA)

Fuell, K. and P. Nutter: Application of Satellite RGB Imagery by Operational Weather Forecast Offices for Analysis of Low-Level Precipitating Clouds, 20th Conf. on Satellite Meteorology and Oceanography, Joint Sat. Program Poster Session II

Fuell, K., G. J. Jedlovec, A. LeRoy, and **L. A. Schultz**: Transition, Training, and Assessment of Multispectral Composite Imagery in Support of the NWS Aviation Forecast Mission, 11th Annual Symp. On New Generation Operational Environmental Satellite Systems

Goodman, S., S. D. Rudlosky, **G. T. Stano**, K. M. Calhoun, L. D. Carey, P. Dillis, P. Roehr, B. C. Motta, and J. LaDue: Preparing Users for the Geostationary Lightning Mapper (GLM) on GOES-R, 20th Conf. on Satellite Meteorology and Oceanography

Guyer, B. and **K. Fuell**: Next Generation Satellite RGB Dust Imagery Demonstration Leads to Changes in Communication and Services by NWS Albuquerque Forecast Office, 31st Conf. on Environmental Info. Processing Technologies

LaFontaine, F. J. and **G. J. Jedlovec**: A Bispectral Composite Threshold Approach for Automatic Cloud Detection in VIIRS Imagery, 20th Conference on Satellite Meteorology and Oceanography

Li, X, J. Mecikalski, and **B. T. Zavadsky**: Assimilation of GPM GMI rainfall product with WRF GSI, 20th Conf. Satellite Meteorology and Oceanography, Joint Satellite Program Poster Session I

Mecikalski, J., C. J. Jewett, L. Carey, **B. T. Zavadsky**, and **G. Stano**: An Integrated 0-1 hour First Lightning Nowcasting, Lightning Amount and Lightning Jump Warning Capability, 7th Conf on the Meteorological Apps of Lightning Data

Meng, H., R. Ferraro, C. Kongoli, B. Yan, **B. T. Zavadsky**, L. Zhamo, J. Dong, and N. Y. Wang: Snowfall Rate Retrieval using Passive Microwave Measurements and its Applications in Weather Forecast and Hydrology, 20th Conference on Satellite Meteorology and Oceanography

Molthan, A., J. Case, J. Venner, R. Schroeder, M. Checchi, **B. T. Zavadsky**, A. Limaye, and R. O'Brien: Cloud-Based Numerical Weather Prediction for Near Real-time Forecasting and Disaster Response, 13th Conf. on Artificial Intelligence

Molthan, A., J. Burks, P. Camp, **K. McGrath**, and **J. R. Bell**: Dissemination of Earth Remote Sensing Data for use in the NOAA/NWS Damage Assessment Toolkit, 31st Conf. on Environmental Info. Processing Techniques

Naeger, A. R., A. L. Molthan, B. T. Zavadsky, and J. M. Creamean: Impact of Asian aerosols on precipitation over California: An observational and model based approach, 7th Symposium on Aerosol-Cloud-Climate Interactions

Roohr, Peter, B. C. Motta, S. J. Goodman, S. D. Rudlosky, **G. T. Stano**, M. T. Filiaggi, P. D. Bothwel, and K. Kuhlman: NWS Lightning Science & Technology Program - Mitigation Impacts of Lightning on Lives and Property with Total Lightning Data and Comparison to Severe Weather Events, Utility of Lightning Data for High-Impact Weather, 7th Conf. on the Meteorological Apps. Of Lightning Data

Schultz, L. A., T. A. Cole, and **A. L. Molthan:** Supporting Disaster Assessment and Response with the VIIRS Day-Night Band, 20th Conf. on Satellite Meteorology and Oceanography

Stano, G. T., B. C. Carcione, and **K. D. White:** Implications of Varying Time Steps within Operational Total Lightning Information, 7th Conference on the Meteorological Applications of Lightning Data

Stano, G. T., L. Wood, T. Garner, R. Nunez, D. Kann, J. Reynolds, R. Cox, and W.R. Bobb: Expanding the Operational Use of Total Lightning Ahead of GOES-R, 7th Conference on the Meteorological Applications of Lightning Data

Watson, L. R., and **B. T. Zavadsky:** High -Resolution Mesoscale Model Setup for the Eastern Range and Wallops Flight Facility, 19th Conf. on Integrated Observing and Assimilation Systems for Atm, Oceans, Land Surface

White, K. D. and **J. L. Case:** Operational Assessment of the 3-km Land Information System Soil Moisture Data for Drought Monitoring and Hydrologic Applications, 29th Conf on Hydrology

2014 AGU Fall Meeting—San Francisco, California, 15-19 December

Burks, J. E. and A. Limaye: A Web Architecture to Geographically Interrogate CHIRPS Rainfall and eMODIS NDVI for Landuse Change, Climate and Environmental Data, Info. And Knowledge for Societal Decision making in the U.S. and International/SERVIR Region II posters, Global Environmental Change

Colle, B., **A. L. Molthan**, R. Yu, and S. Nesbitt: Evaluation of Mixed-Phase Microphysics Within Winter Storms Using Field Data and In Situ Observations, Global Precipitation Measurement, Validation, and Applications III Posters

Folmer, M., J. Halverson, **E. B. Berndt**, J. Dunion, S. Goodman, M. Goldberg, and M. Demaria: Improved Satellite Techniques for Monitoring and Forecasting the Transition of Hurricanes to Extratropical Storms, Tropical Cyclones: Observations, Modeling, and Predictability V Posters

Jedlovec, G. J., and **L. J. LaFontaine:** A Simplified Approach to Cloud Masking with VIIRS in the S-NPP/JPSS Era, Space-Based, Operational Global Earth Observations from S-NPP and JPSS II

Molthan, A. L., J. E. Burks, P. Camp, **K. McGrath,** and **J. Bell:** Integration of Earth Remote Sensing into the NOAA/NWS Damage Assessment Toolkit, Near Real Time Data for Earth Science and Space Weather Applications

Molthan, A. L., J. Case, B. T. Zavodsky, A. Naeger, F. LaFontaine, and M. Smith: Multi-Spectral Satellite Imagery and Land Surface Modeling Supporting Dust Detection and Forecasting, Integrating Airborne Dust Forecasting and Remote Sensing into Air Quality and Public Health Services

Sakwa, V. N., **J. Case**, A. S. Limaye, **B. T. Zavodsky**, E. S. Kabuchanga, and J. Mungai: WRF Simulation over the Eastern Africa by use of Land Surface Initialization, Climate and Environmental Data, Information, and Knowledge for Societal Decision Making in the U.S. and International/SERVIR Regions

39th NWA Annual Meeting—Salt Lake City, Utah, 18-23 October 2014

Case, J. L., C. B. Blankenship, B. T. Zavodsky: Soil Moisture Data Assimilation in the NASA Land Information System for Local Modeling Applications and Improved Situational Awareness

Elmer, N., E. Berndt, G. J. Jedlovec, F. J. LaFontaine, A. Naeger: Limb Correction of RGB Composite Imagery for Improved Interpretation

White, K. D. and J. L. Case: Assessing the Utility of 3-km Land Information System Soil Moisture Data for Drought Monitoring and Hydrologic Applications

2014 EUMETSAT Meteorological Conference—Geneva, Switzerland, 22-26 September

Berndt, E. B., B. T. Zavodsky, M. J. Folmer, and G. J. Jedlovec: Impact of the Assimilation of Hyperspectral Infrared Retrieved Profiles on Advanced Weather and Research Model Simulations of a Non-Convective Wind Event

Berndt, E. B., B. T. Zavodsky, M. J. Folmer, A. L. Molthan, and G. J. Jedlovec: The Use of Red Green Blue Air Mass Imagery to Investigate the Role of Stratospheric Air in a Non-Convective Wind Event

Blankenship, C. B., J. L. Case, B. T. Zavodsky, and G. J. Jedlovec: Assimilation of SMOS retrieved soil moisture into the Land Information System

Fuell, K. K., E. Stevens, L. Schultz, and A. L. Molthan: Transition and assessment of LEO nighttime and 24-hour microphysics imagery to support nowcasting for aviation at high latitudes.

Other Conference Presentations

Bell, J. R., A. Molthan, G. Jedlovec, and M. Daboor: Applications of SAR Data to Weather Disasters. NISAR Applications Workshop, San Jose CA. 15 October 2015

Berndt, E. B. and B. T. Zavodsky: Applications using Satellite Sounder Products at the NASA SPoRT Center. STAR JPSS 2015 Annual Science Team Meeting, College Park, MD., 24-28 August 2015

Berndt, E., B. Zavodsky, J. Srikishen, and C. Blankenship: Assimilation of NUCAPS Retrieved Profiles in GSI for Unique Forecasting Applications. 13th Joint Center for Satellite Data Assimilation Technical Review & Science Workshop on Satellite Data Assimilation, College Park, MD., 13-15 May 2015

Blankenship, C. B., J. L. Case, and B. T. Zavodsky: Improved NWP Forecasts from Soil Moisture Assimilation: Results from SMOS, Plans for SMAP, SMAP Mission Applications Benchmark Meeting, College Park, MD, 3-4 June 2015

Burks, J. E. and **A. L. Molthan**: GOES-R and JPSS EPDT, 3rd NOAA Satellite Proving Ground/User Readiness Meeting, 9-13 May 2016, Norman, Oklahoma

Burks, J. E.: Experimental Products Development Team (EPDT), 2015 NOAA Satellite Proving Ground/User Readiness Meeting Kansas City, MO., 15–19 June 2015.

Case, J. L.: and Coauthors: Assessing the Fidelity of Dynamical Downscaling with the NASA Unified-WRF Model. 16th Annual WRF Users' Workshop, Boulder, CO, 15-19 June 2015

Colle, B., **A. L. Molthan**, R. Yu, and S. Nesbitt: Evaluation of Model Microphysics within Precipitation Bands of Extratropical Cyclones, Precipitation Measurement Missions (PMM) Science Team Meeting, Baltimore, MD, 4-8 August 2014

Molthan, A., K. Fuell, A. LeRoy, G. Stano, and L. Schultz: Recent and Upcoming Activities Supporting OCONUS Regions and National Centers, presented at the 2015 NOAA OCONUS Technical Interchange Meeting, Anchorage, AK, 11–15 May 2015

Molthan, A.: Transition to Operations Activities to Support CYGNSS, presented at CYGNSS Applications Workshop, Silver Spring, MD., May 27, 2015

Molthan, A. L.: RGB Products, Applications, and Future Opportunities, presented at the NOAA Satellite Proving Ground and User Readiness Meeting, Kansas City, MO, 15–19 June,

Molthan, A. L., J. E. Burks, L. A. Schultz, K. Angle, J. P. Camp, K. M. McGrath, and J. R. Bell: Applications of Earth Remote Sensing Data for Severe Weather and Disaster Assessment, preprints, 27th Conference on Weather Analysis and Forecasting, Chicago, IL 29 June–3 July 2015

Molthan, A. L., K. K. Fuell, G. T. Stano, K. M. McGrath, L. A. Schultz, and A. LeRoy: Use and Assessment of Multi-Spectral Satellite Imagery in NWS Operational Forecasting Environments, preprints, 27th Conference on Weather Analysis and Forecasting, Chicago, IL, 29 June–3 July 2015

Naeger, A. R., B. A. Colle, A. L. Molthan, and S.W. Nesbitt: Evaluating microphysical schemes in simulating the mixed-phase processes of a winter storm during GPM-GCPEX. 16th Conference on Mesoscale Processes, Boston, MA, 3-6 August 2015

Naeger, A., B. Zavadsky, and P. Gupta: Development and Validation of the SPoRT AOD Composite Product for Data Assimilation. 14th Joint Center for Satellite Data Assimilation (JSCDA) Workshop, Moss Landing CA., 31 May – 2 June 2016

Naeger, A. R., B. Colle, and A. L. Molthan: Evaluating microphysical schemes in simulating the mixed-phase processes of a winter storm during GPM-GCPEX, 16th Annual WRF Users' Workshop, Boulder, CO, 15–19 June 2015

Stano, G. T.: SPoRT Support to OCONUS and Future Plans, OCONUS Technical Interchange Meeting, 27-30 June 2016, Honolulu Hawaii

Stano, G. T.: NASA SPoRT Training Activities in Preparation for the Geostationary Lightning Mapper , 3rd NOAA Satellite Proving Ground/User Readiness Meeting, 9-13 May 2016, Norman, Oklahoma

Stano, G. T.: NASA SPoRT Collaborations with the Aviation Weather Community. 6th Southwest Aviation Weather Safety Workshop, Las Vegas, NV, 17–18 Apr 2015.

Stano, G. T.: Engaging the User Community to Prepare for Operational RGB Applications, presented at the NOAA Satellite Proving Ground and User Readiness Meeting, Kansas City, MO 15–19 June 2015

White, K.: Fog and Low Stratus Case Study – RGB Nighttime Microphysics and Other Products, presented at the NOAA Satellite Proving Ground and User Readiness Meeting, Kansas City, MO, 15-19 June 2015

Zavodsky, B., N. Smith, J. Dostalek, E. Stevens, K. Nelson, T. Reale, **E. Berndt,** A. Gambacorta, C. Barnet, **J. Srikishen,** and C. Francouer: The Cold Air Aloft Problem: Applications of Temperature Sounding in High Latitude Regions for Aviation. STAR JPSS 2015 Annual Science Recent Accomplishments Team Meeting, College Park, MD., 24-28 August 2015

Zavodsky, B., G. Jedlovec, J. Burks, and **A. Molthan:** Short-term Prediction Research and Transition Center (SPoRT), presented at the 6th Annual NOAA Testbeds & Proving Grounds Workshop, Boulder, CO, 14-16 April 2015

Zavodsky, B.,: SPoRT GPM Early Adopter Activities, presented at the 2015 GPM Applications Workshop, College Park, MD., 9–10 June 2015

Zavodsky, B. T., J. L. Case, E. Berndt, C. B. Blankenship, J. Srikishen, and **A. Naeger:** NASA SPoRT Modeling and Data Assimilation Research and Transition Activities, preprints, 23rd Conference on Numerical Weather Prediction, Chicago, IL, 29 June–3 July 2015

Zavodsky, B. T., J. L. Case, C. B. Blankenship, and **K. D. White:** Land Surface Modeling and Data Assimilation at NASA SPoRT for Improved Situational Awareness and Local Model Initialization, preprints, 23rd Conference on Numerical Weather Prediction Chicago, IL, 29 June–3 July 2015