

Schedule of Presentations from The University of Alabama in Huntsville

Title	Date	Presenter	Contributors	Affiliation	Location	Time	Presentation Type
Phenomenology of intracloud lightning leaders	2/2/14	Kelcy N. Brunner-Miller	P. M. Bitzer and H. J. Christian	University of Alabama in Huntsville	S20	5:00 PM-6:30 PM	Poster
Significance of the Time Between Preliminary Breakdown and Return Stroke for Negative Cloud-to-Ground Flashes	2/2/14	Geoffrey Heidelberger		University of Alabama in Huntsville	S53	5:00 PM-6:30 PM	Poster
Enhanced methods of data assimilation for simulated hurricane rain rates and wind speeds in a mesoscale model	2/3/14	Cerese Marie Albers	D. T. N. Krishnamurti and T. L. Miller	USRA	Room C203	1:45 PM	Seminar
Lightning Jump Algorithm for GOES-R Geostationary Lightning Mapper (GLM) Proxy Data	2/3/14	Elise V. Schultz	C. J. Schultz, L. D. Carey, D. J. Cecil, G. T. Stano, M. Bateman, and S. J. Goodman	University of Alabama in Huntsville		2:30 PM-4:00 PM	Poster
Landslide Hazards in North Alabama: Physical Assessment, Monitoring, and Prediction	2/3/14	Brian Freitag	A. Kaulfus, E. Anderson, Y. Wu, K. Srinivasan, U. Nair, K. Keiser, B. Howell, B. Ashmall, and D. Irwin	University of Alabama in Huntsville		2:30 PM-4:00 PM	Poster
Mercury Wet Deposition: Variability Associated With Precipitation Type	2/3/14	Aaron Kaulfus	U. Nair, Y. Wu, C. Holmes, and W. M. Landing	University of Alabama in Huntsville		5:00 PM	Seminar?
Globally-Gridded Interpolated Night-Time Marine Air Temperatures 1900-2009	2/4/14	Robert A. Junod	J. R. Christy	University of Alabama in Huntsville	Room C102	8:45 AM	Seminar
Inductive Approach to Teaching of Dynamic Meteorology: Use of Thought Experiments and Technology Driven Science Inquiry	2/4/14	Udaysankar S. Nair	R. Ramachandran and A. Word-Allbritton	University of Alabama in Huntsville	Room C109	9:00 AM	Seminar
Investigating the use of dual-polarization radar variables in forecasting lightning initiation	2/4/14	Mariana Scott	L. D. Carey	University of Alabama in Huntsville	Room C201	8:30 AM	Seminar



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National Demonstration and Evaluation of a Real Time Lightning Jump Algorithm for Operational Use	2/4/14	Themis Chronis	C. J. Schultz, E. V. Schultz, L. D. Carey, K. M. Calhoun, D. M. Kingfield, K. L. Ortega, M. T. Filiaggi, G. J. Stumpf, G. T. Stano, and S. Goodman	University of Alabama in Huntsville	Room C202	8:30 AM	Seminar
Integration of RGB "Dust" Imagery to Operations at the Albuquerque Forecast Office	2/4/14	Kevin K. Fuell	B. Guyer and D. Kann	University of Alabama in Huntsville	Room C202	9:00 AM	Seminar
Correlation of DIAL Ozone Observations with Lightning	2/4/14	Harold Peterson	S. Kuang, W. Koshak, and M. J. Newchurch	University of Alabama in Huntsville	Hall C3	9:45 AM-11:00A M	Poster
Total Lightning as an Indicator of Mesocyclone Behavior	2/4/14	Sarah M. Stough	L. D. Carey and C. J. Schultz	University of Alabama in Huntsville	Room C201	11:15am	Seminar
Assimilation of SMOS Soil Moisture Retrievals in the Land Information System	2/4/14	Clay B. Blankenship	J. L. Case and B. T. Zavadsky	USRA	Hall C3	9:45 AM-11:00A M	Poster
AWIPS II Application Development, a SPoRT Perspective	2/4/14	Jason E. Burks	M. Smith and K. M. McGrath	NASA/MSFC	Room C105	2:15 PM	Seminar
Collaborative Workbench to Accelerate Science Algorithm Development	2/4/14	Manil Maskey	R. Ramachandran, K. S. Kuo, and C. Lynnes	University of Alabama in Huntsville	Room C105	3:30 PM	Seminar
An Artificial Neural Network Downscaling of MERRA Mountain Gap Wind Events	2/4/14	Emily Foshee	U. Nair, X. Li, D. K. Smith, and K. Keiser	University of Alabama in Huntsville	Room C204	3:30 PM	Seminar
Integration of the total lightning jump algorithm into current operational warning environment conceptual models	2/4/14	Christopher J. Schultz	L. D. Carey, E. V. Schultz, G. T. Stano, R. J. Blakeslee, and S. J. Goodman	NASA/MSFC	Room C203	4:30 PM	Seminar
A sensitivity study of ozone entrainment flux on boundary layer micrometeorology fields	2/4/14	Guanyu Huang	M. Newchurch, S. Kuang, L. Wang, and W. Cantrell	University of Alabama in Huntsville	Room C206	4:15 PM	Seminar
Cloud Correction and its Impact on Air Quality Simulations	2/5/14	Arastoo Pour Biazar	R. T. McNider, M. Khan, Y. H. Park, B. Dornblaser, and K. Doty	University of Alabama in Huntsville	Room C206	9:00 AM	Seminar

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Ozone Profile Observations at Huntsville: Toward Understanding Southeast North American Chemistry	2/5/14	M. J. Newchurch	S. Kuang, J. Burris, L. Wang, G. Huang, W. Cantrell, B. Johnson, P. Cullis, and E. Eloranta	University of Alabama in Huntsville	Room C113	8:30 AM	Seminar
First Measurements Based Estimates of Shortwave Aerosol Direct Radiative Effects over Cloudy Sky	2/5/14	Nan Feng		University of Alabama in Huntsville	Room C207	11:45 AM	Seminar
Assimilation of Dual-Polarimetric Radar Observations with WRF GSI	2/5/14	Xuanli Li	J. R. Mecikalski, T. Fehnel, B. T. Zavodsky, and J. Srikishen	University of Alabama in Huntsville	Room C202	10:30 AM	Seminar
Convective Initiation and 0-6 hr Storm Nowcasting for GOES-R	2/5/14	John R. Mecikalski	C. P. Jewett, S. Weygandt, T. L. Smith, A. K. Heidinger, W. Straka, and S. Benjamin	University of Alabama in Huntsville	Room C202	11:15 AM	Seminar
Total lightning as an indication of Convectively Induced Turbulence potential in and around thunderstorms	2/5/14	Ryan Hunter Rogers	L. D. Carey, M. Bateman, G. T. Stano, S. A. Monette, W. F. Feltz, K. Bedka, and C. Fleegeer	University of Alabama in Huntsville	Georgia Ballroom 3	1:45 PM	Seminar
Supporting Decision Support with Event-Driven Data Delivery	2/5/14	Sara J. Graves	K. Keiser, M. Maskey, T. Harper, and M. McEniry	University of Alabama in Huntsville	Room C108	1:30 PM	Seminar
Applications of Satellite Remote Sensing for Response to and Recovery from Meteorological Disasters	2/5/14	Andrew L. Molthan	J. E. Burks, K. M. McGrath, J. P. Camp, D. Leonardo, and J. R. Bell	NASA/MSFC	Room C203	1:45 PM	Seminar
Development of web mapping service capabilities to support NASA disasters applications/app development	2/5/14	Jason E. Burks	A. L. Molthan and K. M. McGrath	NASA/MSFC	Room C203	2:00 PM	Seminar
Use of MODIS Cloud Top Pressure to Improve Assimilation Yields of AIRS Radiances in GSI	2/5/14	Bradley T. Zavodsky	J. Srikishen	NASA/MSFC	Hall C3	2:30 PM-4:00 PM	Poster
A Comparison of Space Based Optical Measurements and Ground Based VLF Measurements	2/5/14	Phillip M. Bitzer	H. J. Christian	University of Alabama in Huntsville	Hall C3	2:30 PM-4:00 PM	Poster



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Using ISERV and Commercial Satellite Imagery to Assess and Monitor Recovery Efforts in Urban Damaged Areas	2/5/14	Jordan R. Bell	A. L. Molthan, J. E. Burks, and K. M. McGrath	University of Alabama in Huntsville	Hall C3	2:30 PM-4:00 PM	Poster
Identifying Hail Signatures in Satellite Imagery from the 9–10 August 2011 Severe Weather Event	2/5/14	Rachel L. Dryden	A. L. Molthan, T. A. Cole, and J. R. Bell	NASA/MSFC	Hall C3	2:30 PM-4:00 PM	Poster
Using Satellite Imagery to Identify Tornado Damage Tracks and Recovery from the April 27, 2011 Severe Weather Outbreak	2/5/14	Tony A. Cole	A. L. Molthan, J. E. Burks, and J. R. Bell	NASA Marshall Space Flight Center	Hall C3	2:30 PM-4:00 PM	Poster
Use of NASA near Real-Time and Archived Satellite Data to Support Disaster Assessment	2/5/14	Kevin M. McGrath	A. L. Molthan and J. E. Burks	Jacobs Technology, Inc.	Hall C3	2:30 PM-4:00 PM	Poster
Developing Parameters to Nowcast Intense Storms within the 0–1 hour Timeframe	2/5/14	John R. Mecikalski	D. Rosenfeld	University of Alabama in Huntsville	Hall C3	2:30 PM-4:00 PM	Poster
Development and Implementation of Dynamic Scripts to Execute Cycled WRF/GSI Forecasts	2/5/14	Bradley T. Zavodsky	J. Srikishen, E. Berndt, X. Li, and L. R. Watson	NASA/MSFC	Hall C3	2:30 PM-4:00 PM	Poster
Interactions Between a Thermal Boundary and Deep Convection During the 27 April 2011 Superoutbreak	2/5/14	Adam Sherrer	K. Knupp, T. Murphy, and R. A. Wade	University of Alabama in Huntsville	Hall C3	2:30 PM-4:00 PM	Poster
A Total Lightning Perspective of the 20 May 2013 Moore, Oklahoma Supercell	2/5/14	Geoffrey T. Stano	C. J. Schultz, L. D. Carey, D. R. MacGorman, and K. M. Calhoun	ENSCO, Inc./NASA SPoRT	Hall C3	2:30 PM-4:00 PM	Poster
Evaluating lead time differences on residents' responses to a tornado warning	2/5/14	Matthew J. Frazier	M. A. O'Brien and E. V. Schultz	University of Alabama in Huntsville	Hall C3	2:30 PM-4:00 PM	Poster
Understanding knowledge of tornado protective actions in a tornado-prone community	2/5/14	Paula Tucker	M. A. O'Brien and E. V. Schultz	University of Alabama in Huntsville	Hall C3	2:30 PM-4:00 PM	Poster
Prevalence and Characteristics of Atmospheric Waves in Severe Weather Environments	2/5/14	Todd A. Murphy	K. R. Knupp	University of Alabama in Huntsville	Hall C3	2:30 PM-4:00 PM	Poster



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Complex Supercell Mergers and Storm-Scale Interactions During Recent Significant Severe Weather Outbreaks	2/5/14	Ryan Wade	T. Murphy and K. Knupp	University of Alabama in Huntsville	Hall C3	2:30 PM-4:00 PM	Poster
High-Resolution Observations of a Tornado-Producing Quasi-Linear Convective System	2/5/14	Anthony W. Lyza	K. Knupp	University of Alabama in Huntsville	Hall C3	2:30 PM-4:00 PM	Poster
Multi-Sensor Analysis of MCS Maintenance and Boundary Layer Evolution During the 4–5 June 2012 ABIDE-III Field Deployment	2/5/14	Aaron Mayhew	K. R. Knupp	University of Alabama in Huntsville	Hall C3	2:30 PM-4:00 PM	Poster
Using the SPoRT LEO/Geo Hybrid Product in OCONUS Forecasting	2/5/14	Matt Smith	K. K. Fuell, J. A. Nelson Jr., and M. Kreller	University of Alabama in Huntsville	Room C302	4:45 PM	Seminar
A Preliminary Analysis of Precipitation Properties and Processes during NASA GPM IFloodS	2/6/14	Lawrence D. Carey	P. N. Gatlin, W. A. Petersen, M. T. Wingo, T. J. Lang, and D. B. Wolff	University of Alabama in Huntsville	Hall C3	9:45 AM-11:00 AM	Poster
The Impacts of Microphysics and Planetary Boundary Layer Physics on Model Simulations of U. S. Deep South Summer Convection	2/6/14	Eugene W. McCaul Jr.	J. L. Case, B. T. Zavodsky, J. Srikishen, J. M. Medlin, and L. Wood	USRA	Room C202	2:45 PM	Seminar
Linking satellite based lightning initiation nowcasts with WRF lightning threat forecasts to produce a combined nowcast of lightning onset and extent	2/6/14	Matthew Saari	J. R. Mecikalski and E. W. McCaul Jr.	University of Alabama in Huntsville	Room C201	3:30 PM	Seminar
NASA-SPoRT Methodology for JPSS and GOES-R Proving Ground Assessments	2/6/14	Anita LeRoy	K. K. Fuell and L. Rosa	University of Alabama in Huntsville	Room C201	3:45 PM	Seminar
SPoRT transition of JPSS VIIRS Imagery for Night-time Applications	2/6/14	Kevin K. Fuell	A. LeRoy, M. Smith, S. D. Miller, D. Kann, D. Bernhardt, N. Rydell, and R. Cox	University of Alabama in Huntsville	Room C201	4:00 PM	Seminar