

Presentations/Seminars*

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Adams, C.R. and K.E. Eis, *Military and Civilian Technology Transfer for Communications of Critical Weather Information*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (poster).

Azimi-Sadjadi, M.R., gave a talk to several faculty members and researchers at the Ocean Engineering Department, Florida Atlantic University, April 1999.

Azimi-Sadjadi, M.R., *Neural Network Research for Cloud Data Analysis*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (presentation).

Azimi-Sadjadi, M.R., *Temporal Updating Scheme for Cloud Classification*, Naval Research Laboratory, Monterey, California, January 25, 2001 (presentation).

Azimi-Sadjadi, M.R. and D. Reinke, *Cloud Classification and Height Estimation Using a Temporally Adaptable System*, Center for Geosciences/Atmospheric Research Annual Review, White Sands Missile Range, New Mexico, December 11-13, 2001 (presentation).

Azimi-Sadjadi, M.R., *Cloud Classification and Cloud-Base Height Estimation Using Neural Networks*, Center for Geosciences/Atmospheric Research Annual Review, ARL/Adelphi, January 7-9, 2003 (presentation).

Azimi-Sadjadi, M.R., and G. Wichern, *An Environmentally Adaptive Acoustic Transmission Loss Prediction System*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, November 15-17, 2005 (presentation).

Azimi-Sadjadi, M.R., M. Mungiole, and G. Wichern, *Predicting Acoustic Transmission Loss Using an Environmentally Adaptive Neural Network*, DoD Center for Geosciences/Atmospheric Research Summer VTC Seminar Series at CIRA, Colorado State University, July 27, 2006 (presentation).

* Oral and poster presentations at scientific meetings and conferences for which there are published proceedings are contained within the Publications list for the Center.

- Banta, R., *Nocturnal Stable Boundary Layer Turbulence and Transport*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, January 7-9, 2003 (presentation).
- Campbell, G.G., *Asynchronous Stereo Cloud Heights and Motions* at Eumetsat, Darmstadt, Germany, August 1999.
- Campbell, G.G., *Asynchronous Stereo Cloud Heights and Motions* at Istituto di Fisica dell'Atmosfera, Consiglio Nazionale delle Ricerche, Galilei, 00044 Frascati, Italy, *Asynchronous Stereo Cloud Heights and Motions*, July, 1999.
- Campbell, G.G., *Geometric Heights and Winds from Cloud Tracking*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (poster).
- Carey, L.D., *Complex Layered Cloud Experiment (CLEX): An Overview and Recent Results*, Department of Atmospheric Science, University of Wyoming, Laramie, Wyoming, February 19, 2001.
- Carey, L.D., *Preliminary Cloud Radar and Microphysical Observations of Mid-Level Clouds During CLEX-9*, Center for Geosciences/Atmospheric Research Annual Review, ARL/Adelphi, January 7-9, 2003.
- Carrio, G., W. Cotton, D. Zupanski, *Data Assimilation into a μ -scale Model as an Aerosol Retrieval Method*, 25th Anniversary CIRA & CG/AR Spring Science Symposium, Fort Collins, Colorado, May 16-17, 2006 (presentation).
- Castro, C., R. Pielke, and J. Adegoke, *Diagnosing the Climatology and Interannual Variability of North American Summer Climate with the Regional Atmospheric Modeling System (RAMS)*, 29th Climate Diagnostics and Prediction Workshop, Madison, Wisconsin, October 18-22, 2004.
- Castro, C. and R. Pielke, *Dynamical Downscaling: Assessment of Value Retained and Added Using the Regional Atmospheric Modeling System*, American Geophysical Union Fall Meeting, San Francisco, December 15-17, 2004.
- Combs, C. L., D. Rapp, A. S. Jones, and G. Mason, *Comparison of AGRMET Model Results with in situ soil moisture data*, 27th AGU Hydrology Days, Fort Collins, Colorado, March 19-21, 2007 (poster).
- Corbin, K., S. Kreidenweis and T.H. Vonder Haar, *Comparison of Aerosol Properties Derived from Sun Photometer Data and Ground-based Chemical Measurements*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (poster).

- Corbin, K., *Comparison of Properties Derived from Sun-Photometer Data and Ground Based Chemical Measurements*, American Association of Aerosol Research (AAAR) Conference, St. Louis, Missouri, November 6-10, 2000 (poster).
- Cotton, W., *RAMS Model Improvements Related to N-DDA Experiments*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (presentation).
- Cotton, W., *A Prototype Relocatable Grid Boundary Layer Forecast Model*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (presentation).
- Cotton, W., *Development and Testing of Physics Modules and Algorithms for use in High-Resolution Relocatable-Grid Boundary Layer Forecast Models in the Battlefield Environment*, Center for Geosciences/Atmospheric Research Annual Review, White Sands Missile Range, New Mexico, December 11-13, 2001 (presentation).
- Cotton, W., S. Saleeby, C. Golaz, H. Jiang, *Towards a NWP Meso-scale Forecast Model with Transport, Activation, Sources In Sink of CCN, GCCN, ISN*, Naval Research Laboratory, Monterey, California, April 16-17, 2002 (presentation).
- Cotton, W., *A Prototype Boundary Layer Forecast Model – Applications to Fog; Evaluation and Testing of Physics Algorithms*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, January 7-9, 2003 (presentation).
- Cotton, W., D. Stokowski, S. Saleeby, H. Jiang, and E. Zarovy: *Battlefield Environment Boundary Layer Forecasting including Aerosol Forecasting*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, White Sands Missile Range, New Mexico, November 17-19, 2004 (poster and presentation).
- Cotton, W., S. Saleeby, and D. Stokowski, *Parameterizing Aerosol and Sub-grid Cloud Properties in a Mesoscale Model*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, November 15-17, 2005 (presentation).
- Davis, J.M., (presented by R. Fleishauer), *Cloud Morphology, Dynamics and Analysis*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (presentation).
- Davis, J.M. and S.K. Cox, *Infrared Emittance of Middle Level Complex Layered Cloud Systems*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (poster).

- Davis, J.M., *Cloud Layer Experiment (CLEX)*, Center for Geosciences/Atmospheric Research Annual Review, White Sands Missile Range, New Mexico, December 11-13, 2001 (presentation).
- Davis, J.M., *Cloud Structure, Dynamics and Climatology and Cloud Layer Experiments (CLEX)*, Center for Geosciences/Atmospheric Research Annual Review, ARL/Adelphi, January 7-9, 2003 (presentation).
- Donofrio, K., J.M. Forsythe, M.J. Nielsen, A.S. Jones, R.W. Kessler, and T.H. Vonder Haar, *Adding Liquid Clouds to CIRA's Passive Microwave Profiling Retrieval*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, November 15-17, 2005 (poster).
- Eis, K.E., *Technology Transfer: Method and Deliverables*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (presentation).
- Eis, K.E., and A. Jones, *Technology Transfer*, Center for Geosciences/Atmospheric Research Annual Review, White Sands Missile Range, New Mexico, December 11-13, 2001 (presentation).
- Eis, K.E., *Overview of Possible CG/AR Collaborations with UPOS*, Center for Geosciences/Atmospheric Research Annual Review, ARL/Adelphi, January 7-9, 2003 (presentation).
- Eis, K.E., *Technology Transition and CG/AR-DoD Lab/Operational Interactions*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, January 7-9, 2003 (presentation).
- Eis, K.E., and D. McMorrow, *Technology Transition and Interactions Theme Presentation and UPOS Interaction with CG/AR*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, Fort Collins, Colorado, January 21-22, 2004 (presentation).
- Eis, K.E., *Technology Transfer and Infrastructure*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, White Sands Missile Range, New Mexico, November 17-19, 2004 (presentation).
- Eis, K.E., *Technology Transition Discussion*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, November 5-17, 2005 (presentation).
- Falcone, A.K., M.R. Azimi-Sadjadi, A. Pezeshki, J.A. Kankiewicz, and D.L. Reinke: *Coherent-Based Feature Extraction for Cloud Analysis using Satellite Imagery Data*. Asilomar Conference on Signals, Systems, and Computers, Pacific Grove, CA, November 7-10, 2004, (presentation).

- Falcone, A.K., M.R. Azimi-Sadjadi, J.A. Kankiewicz, A. Pezeshki and D.L. Reinke: *Coherent-Based Feature Extraction for Cloud Analysis using Satellite Imagery Data*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, White Sands Missile Range, New Mexico, November 17-19, 2004 (poster).
- Falcone, A.K., M.R. Azimi-Sadjadi, J.A. Kankiewicz, A. Pezeshki and D.L. Reinke: *Coherent-Based Feature Extraction for Cloud Analysis using Satellite Imagery Data*, Information Science and Technology Research Colloquium, Fort Collins, Colorado, April 13-14, 2005 (poster).
- Falcone, A.K., M. Azimi-Sadjadi, and J.A. Kankiewicz, *Multi-Satellite Cloud Product Generation Using Canonical Correlation Analysis*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, November 15-17, 2005 (poster).
- Fleishauer, R.P., *Microphysical Morphology of Mid-Level Clouds*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (presentation).
- Fleishauer, R.P., V.E. Larson, J.A. Kankiewicz, and T.H. Vonder Haar, *Cloud Layer Experiment (CLEX-5) Microphysical Morphology*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (poster).
- Forsythe, J.M., *Cloud Base Height Estimates from Fusion of Satellite and Surface Observations*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (presentation).
- Forsythe, J.M., T.H. Vonder Haar, and D.L. Reinke, *Cloud Base Height Estimates from a Combination of a Satellite Cloud Classification and Ceilometer-Based Surface Reports*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (poster).
- Forsythe, J.M., *Cloud Layer Experiment (CLEX): Principal Results and Deliverables Thus Far*, Center for Geosciences/Atmospheric Research Annual Review, White Sands Missile Range, New Mexico, December 11-13, 2001 (presentation).
- Forsythe, J.M., *Regional DoD Applications of CHANCES Cloud Products*, Center for Geosciences/Atmospheric Research Annual Review, ARL/Adelphi, January 7-9, 2003 (presentation).
- Forsythe, J.M., *Satellite Microwave Water Vapor Profiling*, Center for Geosciences/Atmospheric Research Annual Review, ARL/Adelphi, January 7-9, 2003 (presentation).

- Forsythe, J.M., *Water Vapor Profile Retrievals from Satellite Microwave Sounding Instruments*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, White Sands Missile Range, New Mexico, November 17-19, 2004 (poster).
- Forsythe, J.M., M.J. Nielsen, A.S. Jones, R.W. Kessler, K. Donofrio, and T.H. Vonder Haar, *Water Vapor Profile Retrievals from Satellite Microwave Soundings Over Land and Ocean*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, November 15-17, 2005 (presentation).
- Forsythe, J.M., K.M. Donofrio, A.S. Jones, C.L. Combs, and T.H. Vonder Haar, *Atmospheric Profiles from the AMSU Instrument using the CIRA 1-Dimensional Variational Optimal Estimator*, 25th Anniversary CIRA & CG/AR Spring Science Symposium, Fort Collins, Colorado, May 16-17, 2006 (poster).
- Fowler, L., T. Vukicevic, and T.H. Vonder Haar, *Analysis of Forecast Errors Due to Cloud Microphysics Using 4DVAR Data Assimilation*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, November 15-17, 2005 (poster).
- Fowler, L.D., T. Vukicevic, and T.H. Vonder Haar, *Analysis of Forecast Errors due to Cloud Microphysics using 4DVAR Data Assimilation*, 25th Anniversary CIRA & CG/AR Spring Science Symposium, Fort Collins, Colorado, May 16-17, 2006 (presentation).
- Fox, D., J. Sisler, and W. Malm, *Air Quality and Fine Particulate Monitoring in U.S.*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (special invited poster).
- Gao, W., M.R. Azimi, J. Wang, and K. Saitwal, *Neural Network Research for Cloud Data Analysis*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (poster).
- Ghemires, M., T. Vukicevic, and R. Hertenstein, *Adjoint Development for the RAMS Model*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (poster).
- Greenwald, T.J., *Remote Sensing of Cloud Liquid Water: An Overview*, University of Alabama, Huntsville, November 23, 1998 (presentation).
- Greenwald, T.J., *Radiative Transfer Modeling for 4DDA System*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (presentation and poster).
- Hanamean, J.R., C.L. Castro, and R.A. Pielke Sr., *Landscape Impacts on Maximum and Minimum Temperatures on Northeast Colorado*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (poster).

- Hertenstein, R., *RAMS Modeling Support for CG/AR*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (poster).
- Jones, A.S., *The Retrieval of Soil Moisture in Clear and Cloudy Conditions using Satellite-derived Multisensor Surface Heating Rates*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (presentation).
- Jones, A.S., and T.H. Vonder Haar, *Retrieval of Soil Moisture in Clear and Cloudy Conditions Using Satellite-Derived Multisensor Surface Heating Rate (Parts 1 and 2)*, Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (poster).
- Jones, A.S., *Soil Moisture Remote Sensing*, Center for Geosciences/Atmospheric Research Annual Review, White Sands Missile Range, NM, December 11-13, 2001 (presentation).
- Jones, A.S., *New Data Fusion Methods*, Center for Geosciences/Atmospheric Research Annual Review, White Sands Missile Range, New Mexico, December 11-13, 2001 (presentation).
- Jones, A.S., *Variational data assimilation of soil moisture using a satellite observational operator and its adjoint*. Fourth USWRP Symposium, Boulder, CO, April 22-24, 2002, (presentation).
- Jones, A.S., *Hydrometeorology* (Research Theme), Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, January 7-9, 2003 (presentation).
- Jones, A.S., *Soil Moisture/Cloud Assimilation Experiments*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, January 7-9, 2003 (presentation).
- Jones, A.S., *Hydrometeorology* (Research Theme), Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, Fort Collins, Colorado, January 21-22, 2004 (presentation).
- Jones, A.S., *Hydrometeorology* (Research Theme), Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, White Sands Missile Range, New Mexico, November 17-19, 2004 (presentation).
- Jones, A.S., *Soil Moisture Modeling using WindSat Data*, NPOESS Soil Moisture Working Group, Silver Spring, MD, September 13, 2005 (presentation).
- Jones, A.S., *Soil Moisture Data Assimilation with Microwave Radiance*, Joint NCAR/MMM CSU/CIRA Data Assimilation Workshop, NCAR, Boulder, Colorado, September 19, 2005 (presentation).

- Jones, A.S., *Application of WindSat for Soil Moisture Satellite Data Assimilation and DoD Impact Studies*, NPOESS/IPO IGS Soil Moisture Working Group Review, Silver Spring, MD, December 20, 2005 (presentation).
- Jones, A.S., *Application of WindSat for Soil Moisture Satellite Data Assimilation and DoD Impact Studies*, CIRA/CSU, Fort Collins, Colorado, February 21, 2006 (presentation).
- Jones, A.S., C. Combs, D. Rapp, T. Vukicevic, B. McKeown, D. Zupanski, and T.H. Vonder Haar: *Use of WindSat data for soil moisture detection*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, White Sands Missile Range, New Mexico, November 17-19, 2004 (poster).
- Jones, A.S., and G. McWilliams, *Applications of WindSat for Soil Moisture Satellite Data Assimilation and DoD Impact Studies*, DoD Center for Geosciences/Atmospheric Research Summer VTC Seminar Series at CIRA, Colorado State University, August 29, 2005 (presentation).
- Jones, A.S., C. Combs, D. Rapp, P. Stephens, R. McKeown, T. Vukicevic, and T. Vonder Haar, *4D Data Assimilation of WindSat Data to Retrieve Soil Moisture*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, November 15-17, 2005 (presentation).
- Jones, A.S., P.C. Shott, J.M. Forsythe, C.L. Combs, R.W. Kessler, M.J. Nielsen, P.J. Stephens, and T.H. Vonder Haar, *Masking Effects of Surface Features – How Global Microwave Emissivities Place Measurable Bounds on the Problem*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, November 15-17, 2005 (poster).
- Jones, A.S. and P.J. Stephens, *Discrete Backus-Gilbert Method for Reducing RFI Effects*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, November 15-17, 2005 (poster).
- Jones, A. S., G. McWilliams, C. L. Combs, T. Lakhankar, S. Longmore, G. Mason, M. Mungiole, D. Rapp, and T. H. Vonder Haar, *NPOESS soil moisture satellite data assimilation using WindSat data*, 27th AGU Hydrology Days, Fort Collins, Colorado, March 19-21, 2007 (presentation).
- Jones, J., *Satellite Observations of Mid-Level, Mixed-Phase Clouds of Highly Variable Optical Thickness*, Center for Geosciences/Atmospheric Research Annual Review, ARL/Adelphi, January 7-9, 2003 (presentation).
- Julien, P., *Hydrometeorology and CASC2D Modeling*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (presentation).

- Julien, P., J. Jorgeson, and D. Molnar, *Center for Geosciences – Flood Forecasting – CASC2D Model*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (poster).
- Julien, P., J. Spah, A. Jones, and T.H. Vonder Haar, *Center for Geosciences -Hydrometeorology – CASC2D Model*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (poster).
- Julien, P., *Sediment Transport Modeling with CASC2D-SED*, Center for Geosciences/Atmospheric Research Annual Review, White Sands Missile Range, New Mexico, December 11-13, 2001 (presentation).
- Julien, P., *Hydrologic and Erosion Modeling with CASC2D-SED*, Center for Geosciences/Atmospheric Research Annual Review, ARL/Adelphi, January 7-9, 2003 (presentation).
- Julien, P., and M. Velleux: *Watershed Transport and Fate of Sediments and Chemicals*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, White Sands Missile Range, New Mexico, November 17-19, 2004 (poster and presentation).
- Julien, P., and M. Velleux: *Spatially Distributed Watershed Chemical Transport and Fate Model Development Research Summary*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, November 14-16, 2005 (presentation).
- Julien, P., D. Kang, and M. Velleux, *Distributed Snowmelt Modeling with GIS and CASC2D at California Gulch, CO*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, November 15-17, 2005 (poster).
- Kankiewicz, J.A., and R. Fleishauer, *Description of the CLEX-5 science objectives and research themes*, CIRA Annual Research Retreat, Pingree Park, Colorado, July 26-28, 2000 (poster).
- Kankiewicz, J.A., R. Fleishauer, J.M. Davis, V. Larson, and T.H. Vonder Haar, *Radiative Properties of CLEX-5 Sampled Cloud*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (poster).
- Kankiewicz, J.A., *Cloud Layer Forecasting – 4DDA Experiment*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, January 7-9, 2003 (presentation).
- Kankiewicz, J.A., and T.H. Vonder Haar, *Cloud Structure, Dynamics & Climatology*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, Fort Collins, Colorado, January 21-22, 2004 (presentation).

- Kankiewicz, J.A., C. Seaman, L. Carey, V. Larson and T.H. Vonder Haar, *Cloud Structure, Dynamics & Climatology*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, White Sands Missile Range, New Mexico, November 17-19, 2004 (presentation).
- Kankiewicz, J.A., C.J. Seaman, S.Q. Kidder, T.H. Vonder Haar, L.D. Carey, *The Next Cloud Layer Experiment (CLEX-10) Field Campaign*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, November 15-17, 2005 (poster).
- Kankiewicz, J.A., C.J. Seaman, T.H. Vonder Haar, L.D. Carey, and V.E. Larson, *New Results and Analyses Related to Forecasting Extended Mid-Level Cloud Layers*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, November 15-17, 2005 (presentation).
- Kidder, S.Q., *A Measurement of the Albedo of Cirrus Clouds at 3.9 pm*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (poster).
- Kidder, S.Q., J. Forsythe, D. McKague, and B. Ruston, *Cirrus Properties, Microwave Water Vapor Profile Retrievals, Microwave Land Emission Studies*, Center for Geosciences/Atmospheric Research Annual Review, White Sands Missile Range, New Mexico, December 11-13, 2001 (presentation).
- Kidder, S.Q., *Remote Sensing of Battlespace Parameters*, Center for Geosciences/Atmospheric Research Annual Review, ARL/Adelphi, January 7-9, 2003 (presentation).
- Kidder, S.Q., *Thin Cirrus Detection*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, January 7-9, 2003 (presentation).
- Kidder, S.Q., *Derivation of Battlespace Parameters*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, Fort Collins, Colorado, January 21-22, 2004 (presentation).
- Kidder, S.Q., *Cirrus Detection Using MSG Data*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, White Sands Missile Range, New Mexico, November 17-19, 2004 (poster).
- Kidder, S.Q., *Derivation of Battlespace Parameters*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, White Sands Missile Range, New Mexico, November 17-19, 2004 (presentation).
- Kidder, S.Q., et al., *Meteosat Second Generation Algorithms for use at AFWA*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, November 15-17, 2005 (presentation).

Knapp, K.R., *Visibility over the Battlefield: Aerosol Information from GOES*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (presentation).

Knapp, K.R., and T.H. Vonder Haar, *Aerosol Optical Depth Retrievals Over Land Using the GOES-8/Imager Visible Channel*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (poster, electronic version not available).

Knapp, K.R. and K. Eis, *Aerosol Analysis of Afghan Area*, Center for Geosciences/Atmospheric Research Annual Review, White Sands Missile Range, New Mexico, December 11-13, 2001 (presentation).

Kreidenweis, S., *Research and Future Opportunities for Ground-Based Studies of Aerosols and Visibility*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (presentation).

Kreidenweis, S., *Aerosols: Detection and Characterization*, Center for Geosciences/Atmospheric Research Annual Review, White Sands Missile Range, New Mexico, December 11-13, 2001 (presentation via VTC).

Kreidenweis, S., *Boundary Layer Atmospheric Chemistry and Aerosols*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, January 7-9, 2003 (presentation).

Kreidenweis, S., *Boundary Layer Atmospheric Chemistry and Aerosols*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, Fort Collins, Colorado, January 21-22, 2004 (presentation).

Kreidenweis, S., and K. Eis, *Chemistry, Aerosols, and Visibility*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, White Sands Missile Range, New Mexico, November 17-19, 2004 (presentation).

Kreidenweis, S., et al., *Aerosol Observations and Prediction Analyses*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, November 15-17, 2005 (presentation).

Lakhankar, T., A. S. Jones, C. Combs, D. Rapp, and T. H. Vonder Haar, *Geostatistics of large scale in-situ and satellite derived soil moisture data*, 27th AGU Hydrology Days, Fort Collins, Colorado, March 19-21, 2007 (poster).

Lakhankar, T., A. S. Jones, and H. Ghedira, *High resolution soil moisture retrieval from active microwave remote sensing data*, 27th AGU Hydrology Days, Fort Collins, Colorado, March 19-21, 2007 (presentation).

- Larson, V.E., *The Death of a Mid-level Cloud*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (presentation).
- Larson, V.E., R.P. Fleishauer, J.A. Kankiewicz, D.L. Reinke, and T.H. Vonder Haar, *The Death of a Mid-level Cloud*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (poster).
- Larson, V.E., *Dynamics of Altocumulus Clouds*, Center for Geosciences/Atmospheric Research Annual Review, ARL/Adelphi, January 79, 2003.
- Larson, V.E., M.J. Faulk, A.J. Smith, K.E. Kotenberg, *Simulations of CLEX Altocumulus*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, White Sands Missile Range, New Mexico, November 17-19, 2004 (presentation).
- Larson, V.E., A.J. Smith, M.J. Falk, K.E. Kotenberg, J.C. Golaz, *What Determines the Lifetime of Altocumulus Clouds?*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, November 15-17, 2005 (presentation).
- Leoncini, G., *Analysis of Nonlinear/Linear and Hydrostatic/Non-Hydrostatic High Resolution RAMS Simulations*, Center for Geosciences/Atmospheric Research Annual Review, ARL/Adelphi, January 7-9, 2003 (presentation).
- Leoncini, G., presented a seminar of his and Maj. Nobis' research results, Laboratory for Meteorology and Environmental Modeling (LAMMA), June 22, 2004, Florence, Italy.
- Leoncini, G., and R. Pielke, *Nonlinear vs. Linear Mesoscale Dynamics*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, November 15-17, 2005 (poster).
- Marroquin, A., R.A. Pielke Sr., and R.F. Hertenstein, *Link Between Local Landscape Heterogeneities and Climate: CART-RAMS Simulations*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (poster).
- Marroquin, A., *Very High Resolution RAMS Simulations of Complex PBL Flow using LAPS*, Center for Geosciences/Atmospheric Research Annual Review, ARL/Adelphi, January 7-9, 2003 (presentation).
- McNoldy, B.D., and T.H. Vonder Haar, *Distribution of Water Vapor Using Satellite Sounding Methods with New Aircraft Data Validation*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (poster).
- Newsom, R.K., Presented a seminar entitled *Doppler Lidar Observations of the Stable Boundary Layer During CASES-99*, NCAR, Boulder, CO, March 7, 2000.

- Newsom, R.K., *Doppler Lidar Observations of the Stable Nocturnal Boundary Layer During CASES-99*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (presentation).
- Newsom, R.K., *Studies of the Stable Nocturnal Boundary Layer During CASES-99*, Center for Geosciences/Atmospheric Research Annual Review, White Sands Missile Range, New Mexico, December 11-13, 2001 (presentation).
- Newsom, R.K., *Analysis techniques for boundary-layer atmospheric gravity waves*, presented by R. Newsom, and “Nocturnal LLJ evolution and its relationship to turbulence and fluxes,” presented by lead author, R. Banta. *15th Symposium on Boundary Layers and Turbulence*, Wageningen, The Netherlands, July 15-19, 2002.
- Newsom, R.K., *Sensitivity of wind and temperature retrievals to prescribed eddy viscosity profiles, Turbulence in a shear drive boundary layer, and Formation, evolution and decay of a shear flow instability in the stable nocturnal boundary layer*, *15th Symposium on Boundary Layers and Turbulence*, Wageningen, Netherlands, July 15-19, 2002 (posters).
- Newsom, R.K., *4DVAR Applied to Doppler Lidar Data*, Mesoscale Data Integration Workshop, University of North Dakota, Grand Forks, North Dakota, September 9-10, 2002 (presentation).
- Newsom, R.K., invited seminar on initializing LES with lidar data, *4DVAR at Environmental Fluid Dynamics*, Arizona State University, Tempe, Arizona, November, 2002.
- Newsom, R.K., *Observations of the Stable Boundary Layer and Retrieval of Microscale Flow Structures from Lidar Data*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, January 7-9, 2003 (presentation).
- Nobis, T., *High Resolution RAMS Simulation of Urban Landscapes*, Center for Geosciences/Atmospheric Research Annual Review, ARL/Adelphi, January 7-9, 2003 (presentation).
- Nobis, T., *RAMS Simulations Incorporating an Urban Boundary Layer Scheme*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, November 15-17, 2005 (poster).
- Pichugina, Y., R.K. Newsom, and R.M. Banta, *Develop Analysis and Software Visualization for CASES-99 Doppler LIDAR Data*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (poster).
- Pielke, R.A., Sr., and A. Marroquin, *Link Between Local Landscape Heterogeneities and Climate: CART-RAMS Simulations*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (presentation).

- Pielke, R.A. Sr., and A. Marroquin, *Large Eddy Simulation: Variable Scale Boundary-Layer Research*, Center for Geosciences/Atmospheric Research Annual Review, White Sands Missile Range, New Mexico, December 11-13, 2001 (presentation via VTC).
- Pielke, R.A., *Boundary-Layer Dynamics*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, January 7-9, 2003 (presentation).
- Pielke, R.A., *Coupling Numerical with Physical Models*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, January 7-9, 2003 (presentation).
- Pielke, R.A., *Derivation of Battlespace Parameters*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, White Sands Missile Range, New Mexico, November 17-19, 2004 (presentation).
- Pielke, R.A and T.E. Nobis, *Battlefield Meteorology Including Urban Area – Research Needs and Current Capabilities*, DoD Center for Geosciences/Atmospheric Research Summer VTC Seminar Series at CIRA, Colorado State University, August 4, 2005 (presentation).
- Raff, D.A., and J.A. Ramirez, *A Physical, Mechanistic and Fully Coupled Hillslope Hydrology Model*, Fall Meeting of the American Geophysical Union, San Francisco, California, December 8-12, 2003 (paper and poster presentation).
- Raff, D.A., and J.A. Ramirez, *A Physical, Mechanistic and Fully Coupled Hillslope Evolutionary Model*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, White Sands Missile Range, New Mexico, November 17-19, 2004 (poster).
- Ramirez, J., *Advanced Hydrological Modeling - The Evolution of Landscapes and Hillslopes*, Center for Geosciences/Atmospheric Research Annual Review, ARL/Adelphi, January 7-9, 2003 (presentation).
- Ramirez, J., and R. Rajagopal, *The Evolution of Landscapes and Hillslopes*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, November 15-17, 2005 (poster).
- Reinke, D.L., *Global Climatology/Regional Applications-CHANCES-97*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (presentation).
- Reinke, D.L., *The Global, DoD Climatological and Historical Analysis of Clouds for Environmental Simulation (CHANCES) Dataset and Applications*, Center for Geosciences/Atmospheric Research Annual Review, White Sands Missile Range, New Mexico, December 11-13, 2001 (presentation).

- Ruston, B.C., *Temporal and Spectral Differences of Water Vapor Radiances*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, CO, October 25-27, 2000 (poster).
- Ruston, B.C., *Microwave Land Emissivity*, collaboration meetings at the Naval Research Laboratory, Monterey, California, July 15-19, 2002 (informal presentation).
- Ruston, B.C., *Microwave Land Emissivity Over Complex Terrain*, Center for Geosciences/Atmospheric Research Annual Review, ARL/Adelphi, January 7-9, 2003 (presentation).
- Sample, L., G. Stephens and S. Kreidenweis: *Sensitivity Analysis for Retrieval of Aerosol Optical Properties from Measured Reflectances*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, White Sands Missile Range, New Mexico, November 17-19, 2004 (poster).
- Sample, L., G. Stephens, and S. Kreidenweis, *Sensitivity of Top-of-the-Atmosphere Reflectances to Aerosol Properties*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, November 15-17, 2005 (poster).
- Schuster D.C., W. Cotton, and T.H. Vonder Haar, *Real-Time RAMS High Resolution Boundary Layer Forecasting at CSU*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (poster).
- Seaman, C.J., J.A. Kankiewicz, T. Vukicevic, and T.H. Vonder Haar, *Assimilation of Satellite Radiances to Improve Forecasting of Mid-level, Mixed Phase Clouds*, 25th Anniversary CIRA & CG/AR Spring Science Symposium, Fort Collins, Colorado, May 16-17, 2006 (poster).
- Sengupta, M., and T. Vukicevic, *The Analysis of Forecasting Skill in a Mesoscale Model and the Possible Determination of Modeling Error*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, November 15-17, 2005 (poster).
- Sengupta, M., T. Vukicevic, A.S. Jones, L.D. Fowler, S. Longmore, and T.H. Vonder Haar, *A 4DVAR Regional Atmospheric Mesoscale Data Assimilation System (RAMDAS) for all-weather satellite data assimilation*, 25th Anniversary CIRA & CG/AR Spring Science Symposium, Fort Collins, Colorado, May 16-17, 2006 (poster and presentation).
- Stokowski, D.M., W. Cotton, and S. Saleeby, *Direct Radiative Effect of Aerosols in a Mesoscale Model*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, November 15-17, 2005 (poster).

- Vonder Haar, T.H., and K.E. Eis, *Opportunities for Dual-Use Research and Development*, Army After Next Tactical Decision Aids Technology Symposium, El Paso, Texas, April 14-16, 1998 (slide presentation).
- Vonder Haar, T.H., and K.E. Eis, *Weather Parameters from Satellites; Today and Tomorrow*, Army After Next Tactical Decision Aids Technology Symposium, El Paso, Texas, April 14-16, 1998 (slide presentation).
- Vonder Haar, T.H., and K.E. Eis, *Center for Geosciences and Atmospheric Research Phase III*, Army Research Laboratory-Information Science and Technology Directorate Off-Site Planning Meeting, Shippensburg, Pennsylvania, July 14-15, 1998 (slide presentation).
- Vonder Haar, T.H., S.K. Cox, J.M. Davis, D.L. Reinke, J.A. Kankiewicz, R.P. Fleishauer, and V.E. Larson, *Cloud Layer Experiment (CLEX-5) Overview*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (poster).
- Vonder Haar, T.H., D.L. Reinke, and J.M. Forsythe, *High Space/Time Variations of Cloud Conditions from the CHANCES Data Set*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (poster).
- Vonder Haar, T.H., D.L. Reinke, and J.M. Forsythe, *Large Global Image Climatological and Historical Analysis of Cloud* [ref. CHANCES data set poster], Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (poster).
- Vonder Haar, T.H., *Overview of the DoD Center for Geosciences/Atmospheric Research at CSU: Research Themes and Presentations*, Center for Geosciences/Atmospheric Research Annual Review, White Sands Missile Range, New Mexico, December 11-13, 2001 (presentation).
- Vonder Haar, T.H., *The Challenge*, Center for Geosciences/Atmospheric Research Annual Review, White Sands Missile Range, New Mexico, December 11-13, 2001 (presentation).
- Vonder Haar, T.H., and K.E. Eis, *Discussion on Future CG/AR Research Plans and Collaborations (2-yr, 5-yr)*, Center for Geosciences/Atmospheric Research Annual Review, White Sands Missile Range, New Mexico, December 11-13, 2001 (presentation).
- Vonder Haar, T.H., *Overview of the DoD Center for Geosciences/Atmospheric Research at CSU*, Center for Geosciences/Atmospheric Research Annual Review, ARL/Adelphi, January 7-9, 2003 (presentation).
- Vonder Haar, T.H., and K.E. Eis, *Future CG/AR Research Plans, Technology Transition and Collaborations*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, January 7-9, 2003 (presentation).

- Vonder Haar, T.H., *Overview of the DoD Center for Geosciences/Atmospheric Research at CSU*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, White Sands Missile Range, New Mexico, November 17-19, 2004 (presentation).
- Vukicevic, T., *Progress in Assimilation of Satellite Observations into the RAMS Mesoscale Model*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (presentation).
- Vukicevic, T., T.J. Greenwald, R.F. Hertenstein, and M. Ghemires, *Mesoscale 4DVAR Data Assimilation*, Center for Geosciences/Atmospheric Research Annual Review, Fort Collins, Colorado, October 25-27, 2000 (poster).
- Vukicevic, T., Conducted a *Short Course on Dynamic Data Assimilation*, held at CIRA/CSU, Fort Collins, Colorado, February 27-March 2, 2001.
- Vukicevic, T., *4DVAR Research Objectives and Results*, Center for Geosciences/Atmospheric Research Annual Review, White Sands Missile Range, New Mexico, December 11-13, 2001 (presentation).
- Vukicevic, T., T.J. Greenwald and M. Zupanski, *Additional 4DVAR Results and Ensemble Kalman Smoother (EnKS) Data Assimilation*, Center for Geosciences/Atmospheric Research Annual Review, White Sands Missile Range, New Mexico, December 11-13, 2001 (presentation).
- Vukicevic, T., *N-Dimensional Data Assimilation – Overview of Research Theme and New Data Assimilation Results*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, January 7-9, 2003 (presentation).
- Vukicevic, T., *N-Dimensional Data Assimilation & Fusion*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, Fort Collins, Colorado, January 21-22, 2004 (presentation).
- Vukicevic, T., *From Information to Knowledge: Data Assimilation in Atmospheric Sciences*, The National Center for Atmospheric Research, the Department of Atmospheric Science/CIRA Colloquium at Colorado State University, and the Cooperative Institute for Meteorological Satellite Studies, University of Wisconsin-Madison, 2004 (presentations).
- Vukicevic, T., M. Sengupta, A. Jones and T.H. Vonder Haar: *Improving cloud analysis and prediction in 4D with GOES measurements*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, White Sands Missile Range, New Mexico, November 17-19, 2004 (poster).

- Vukicevic, T., and T.H. Vonder Haar: *N-Dimensional Data Assimilation, Assimilation of Satellite Radiances*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, White Sands Missile Range, New Mexico, November 17-19, 2004 (presentation).
- Vukicevic, T., M. Sengupta, A.S. Jones, and T.H. Vonder Haar, *Assimilation of Geostationary IR Observations for Improved Analysis and Prediction of Cloudy Atmosphere in 4D*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, November 15-17, 2005 (presentation).
- Wang, N., and C. Matsumoto, *A Comparison Study of Data Compression Techniques for the Battle-scale Forecast Model (BFM) Grids*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, November 15-17, 2005 (poster).
- Wichern, G., M.R. Azimi-Sadjadi and M. Mungiole: *Fast Methods for Accurate Acoustic Transmission Loss Prediction*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, White Sands Missile Range, New Mexico, November 17-19, 2004 (poster).
- Wichern, G., M. R. Azimi-Sadjadi, and M. Mungiole: *Environmentally Adaptive Acoustic Transmission Loss Prediction with neural networks*. 2005 Unattended Ground Sensor Technologies and Applications Conference, SPIE Defense and Security Symposium, Orlando, FL, March 28-April 1, 2005 (presentation).
- Wichern, G., and M.R. Azimi-Sadjadi: *Environmentally Adaptive Acoustic Transmission Loss Prediction*, Information Science and Technology Research Colloquium, Fort Collins, Colorado, April 13-14, 2005 (poster).
- Wong, V., and M.R. Azimi-Sadjadi: *Dust aerosol optical properties retrieval over the Middle East with Meteosat-8*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, White Sands Missile Range, New Mexico, November 17-19, 2004 (poster).
- Zajac, B., M. Ringerud, T.H. Vonder Haar, G.G. Campbell, and W. Sharp, *Satellite-Derived Winds: A Comparison of New GOES Imager and Sounder Methods with NOAA Wind Profiler Observations*, NOAA Forecast Systems Laboratory's Scientific and Technical Review, Boulder, Colorado, July 1999 (presentation).
- Zupanski, D., et al., *The Role of Model Error in Data Assimilation*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, November 15-17, 2005 (poster).
- Zupanski, D., *Ensemble Data Assimilation Applications to Model Bias Estimation and Information Content Analysis.*, 25th Anniversary CIRA & CG/AR Spring Science Symposium, Fort Collins, Colorado, May 16-17, 2006 (presentation).

Zupanski, M., *Unique Features of CIRA's 4DVAR Data Assimilation System*, Center for Geosciences/Atmospheric Research Annual Review, White Sands Missile Range, New Mexico, December 11-13, 2001 (presentation).

Zupanski, M., *Meso-and Micro-scale Data Assimilation: Application to the Army Scale Met*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, January 7-9, 2003 (presentation).

Zupanski, M., *Evaluation of Ensemble Data Assimilation for the Army Scale Meteorology*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, White Sands Missile Range, New Mexico, November 17-19, 2004 (poster).

Zupanski, M., *Ensemble Kalman Filter (EnKF) Research for Army Scale Meteorology*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, White Sands Missile Range, New Mexico, November 17-19, 2004 (presentation).

Zupanski, M., D. Zupanski, G. Carrio, and W. Cotton, *Evaluation of Ensemble Data Assimilation for the Army Scale Meteorology*, Annual Review of the DoD Center for Geosciences/Atmospheric Research at Colorado State University, ARL/Adelphi, November 15-17, 2005 (presentation).

Zupanski, M., *The Maximum Likelihood Ensemble Filter*, 25th Anniversary CIRA & CG/AR Spring Science Symposium, Fort Collins, Colorado, May 16-17, 2006 (presentation).