

Operational Workshop Agenda
Saturday September 18th, 2010

7:30 – 8:15 AM Registration

Session 1 – Precipitation and Severe Weather Forecasting

Session Chair: Christopher Luckett, Operational Symposium Coordinator

8:15 – 8:35 AM Andrew E. Mercer and Michael Brown – Mississippi State University
Using Artificial Intelligence to Predict Mississippi Lightning

8:35 – 8:55 AM Garrett D. Combs - Lyndon State College, Lyndonville, VT
Steven E. Nelson - NWS Peachtree City/Atlanta, GA
Characteristics and Estimated Warning Success Rates of QLCS and
Supercell-Produced Significant Tornadoes in the Southeast United
States

8:55 – 9:15 AM David Gaffin and David Hotz - NWS Morristown, TN
An Examination of the Varying Supercell Environments over the
Complex Terrain of the Eastern Tennessee River Valley

9:15 – 9:35 AM Melissa A. Kreller - NWS Southern Region Headquarters Fort
Worth, TX
An Overview of the Environmental Conditions and Analysis of the
Experimental Warning Products for the June 17th, 2010 Tornadoes
in Southern Minnesota and Northern Iowa

9:35 – 9:55 AM Holly M. Britton, Gary D. Goggins, Kevin B. Laws, Scott W. Unger,
Michael Garrison, and Tara Golden - NWS Birmingham, AL
Improving Summer Probability of Precipitation Forecasting in
Central Alabama

9:55 – 10:10 AM Break

Session 2 – April 24, 2010

Session Chair: David Wolter, Vice-President

10:10 – 10:30 AM Brad Bryant - NWS Jackson, MS
Precedent Boundary Layer Characteristics to the April 24th 2010
Long Track Tornado across Louisiana and Mississippi

- 10:30 – 10:50 AM** Alan E. Gerard and Gregory R. Garrett - NWS Jackson, MS
A Mesoscale and Stormscale Analysis of the Historic Yazoo City Mississippi Violent Tornado of 24 April 2010
- 10:50 – 11:10 AM** Alan Gerard and Stephen Wilkinson - NWS Jackson, MS
Warning Services and Decision Support for the Historic Yazoo City, MS Violent Tornado of 24 April 2010
- 11:10 – 11:30 AM** Michelle Amin & Brian Carcione - NWS Huntsville, AL
A Mesoscale Analysis of the April 24, 2010 Tornado Outbreak in North Alabama
- 11:30 – 11:50 AM** Michelle Amin & Brian Carcione - NWS Huntsville, AL
An Analysis of Total Lightning Information within the April 24, 2010 Tornadic Supercells

11:50 – 1:00 PM Lunch – Little Dooney’s BBQ

Session 3 – Weather Around the Country

Session Chair: Ryan Hoke, Student Research Conference Symposium Coordinator

- 1:00 – 1:20 PM** Brian Koeneke - NWS Jackson, MS
The Arizona and Southern California Super Storm of January 2010
- 1:20 – 1:40 PM** Ariel Cohen - NWS Jackson, MS
Forecasting Violent Tornadoes
- 1:40 – 2:00 PM** Brian T. Hutton Jr. and Grady Dixon - Mississippi State University
Sunspot Activity and Atlantic Tropical Cyclones
- 2:00 – 2:20 PM** Christopher C. Duke - NWS Memphis, TN
Decision Support for a Low Confidence Snow Event During Super Bowl Sunday 2010
- 2:20 – 2:40 PM** James A. Branda - NWS Memphis, TN
January 2010 Major Winter Storm in the Mid South

2:40 – 2:55 PM Break

Session 4 – Southern Weather Forecasting

Session Chair: Alex St. Pé, Secretary

- 2:55 – 3:15 PM** Thomas L. Salem Jr. - NWS Memphis, TN
Heather Hyre and Christopher Luckett - Mississippi State University
Janice Maldonado, Dennis Negron, Alina Nieves, and Anthony Ortiz - University of Puerto Rico at Mayaguez
Synoptic, Thermodynamic and Kinematic Parameters Associated with Mid-South Tornadoes

3:15 – 3:35 PM Thomas L. Salem, Jr - NWS Memphis, TN
William L. Churchill - Mississippi State University
Does it Always Rain during the Memphis Beale Street Music Festival?
A Look at the Rainfall Climatology of Memphis

3:35 – 3:55 PM Thomas L. Salem Jr. - NWS Memphis, TN
Matthew H. Reagan - Mississippi State University
Radar Reflectivity, One Inch Hail, and Severe Thunderstorm Warnings in the Mid-South

3:55 – 4:15 PM William R. Borghoff, Jonathan L. Howell, Royce Fontenot - NWS Memphis, TN
The Mid South Flood and Tornado Event of May 1-2 of 2010

Session 5 – Alabama and Coastal Tornadoes

Session Chair: Emily McKinney, Treasurer

4:15 – 4:35 PM Ariel E. Cohen, Jared S. Allen, and Joanne Culin - NWS Jackson, MS
Radar Composite Analyses of Tornado-Producing Mesocyclones Across the Gulf Coastal States

4:35 – 4:55 PM Ariel E. Cohen - NWS Jackson, MS
Synoptic-Scale Analysis of Tornado-Producing Tropical Cyclones Along the Gulf Coast

4:55 – 5:15 PM Andy Kula and Dana Griffin - NWS Huntsville, AL
A Case Review of the January 21, 2010 Huntsville, Alabama Tornado

5:15 – 5:20 PM **Closing Remarks** – Brian Hutton Jr., President – East Mississippi Chapter of the NWA/AMS