



American Meteorological Society



30th Conference on Severe Local Storms

24-28 October 2022

Eldorado Hotel & Spa

Santa Fe, NM

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Organizers

The 30th Conference on Severe Local Storms is organized by the AMS Committee on Severe Local Storms and hosted by the American Meteorological Society.

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Conference Badges and Registration

All those in attendance of the AMS conference must register and wear the name badge. Please wear your badge in a viewable spot at all times during the conference. As a reminder, during registration, you agreed to follow the AMS Professional and Respectful Conduct and the AMS Commitment to Care.

The AMS Registration Desk is located in DeVargas. The AMS Registration Desk will be open for registration on Sunday, 23 October from 5:00 PM - 7:00 PM, and Monday-Friday during the hours shown below.

Monday: 7:00 AM - 7:00 PM
Tuesday: 7:00 AM - 6:00 PM
Wednesday: 7:00 AM - 4:00 PM
Thursday: 7:00 AM - 6:00 PM
Friday: 7:30 AM - 12:30 PM

Attendees who have registered for a full week package may attend all conference sessions, coffee breaks, and poster viewings.

Attendees who have registered for a one-day package may attend, for one calendar day, admission to all conference sessions, coffee breaks, poster viewings, and/or receptions that take place on that day.

EVENTS

Monday Student & Early Career Happy Hour

Monday, October 24, 6:00 PM - 7:00 PM - Casa Espana

The Student & Early Career Happy Hour is Sponsored by:



PennState
College of Earth
and Mineral Sciences

**Department of Meteorology
and Atmospheric Science**

Monday Ice Breaker Reception

Monday, October 24, 7:00 PM - 8:30 PM - Casa Espana

Formal Poster Viewings

Poster Session Set-Up, Viewing, and Tear-Down Schedule:
All posters will be located in the Anasazi Ballroom.

Set Up: and Tear Down Information:

Poster Group #	Set Up After	Formal Poster Viewing Time	Tear Down By*
Poster Session 1	MON: 10:00 AM	MON: 1:15-2:45 PM	TUE: 8:30 AM
Poster Session 2	TUES: 10:00 AM	TUES: 1:15-2:45 PM	WED: 8:30 AM
Poster Session 3	WED: 10:00 AM	WED: 1:15-2:45 PM	THURS: 8:30 AM
Poster session 4	THUR: 10:00 AM	THUR: 1:15-2:45 PM	FRI: 10:00 AM

*Note that AMS is not responsible for posters not removed by the tear down time.

Special Needs

It is our sincere desire to comply fully with both the letter and the spirit of the Americans with Disabilities Act of 1990 (ADA). Special housing needs should have been requested when making hotel reservations. Should you need assistance onsite, please see AMS Meetings Staff at the AMS Registration Desk.

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As a reminder, during registration, you agreed to follow the AMS Professional and Respectful Conduct and the AMS Commitment to Care. This includes wearing a face mask at all times.

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- Notify an AMS Staff Member (wearing a blue ribbon at an in-person meeting)
- Email conduct@ametsoc.org or call 617-226-3965
- Email AMS Executive Director, Stella Kafka, skafka@ametsoc.org
- If you witness or experience behavior that constitutes an immediate and serious threat, please call 911.

Thank you and enjoy the conference!

Welcome to the 30th AMS Conference on Severe Local Storms! We know it has been long delayed and we are excited to finally get together both here in Santa Fe and virtually. We are continuing the tradition of promoting discussion and collaboration throughout this conference and encourage everyone to participate both formally and informally. In addition to the discussion periods scheduled every morning, we also have the student and early career happy hour and a full ice breaker social at the Casa España Monday evening. Our venue is set up to foster connections and conversation. We have also made an effort, particularly in our plenary sessions, to blend research from scientists (physical and social), developers, and operational forecasters with varying backgrounds to bring diverse perspectives to our discussions.

Based on the number of submitted abstracts and requested presentations, the severe storms community shares our enthusiasm for the return of SLS. We received 375 abstracts and 256 talk requests, both of which we believe are the most ever received at SLS. The submissions represent an increase of 24% from Stowe (2018) and 10% from Portland (2016). We anticipated such an increase and chose Santa Fe to reflect the conference balance we are striving for: a location small enough to encourage community discussion and engagement, but large enough to comfortably accommodate our growing community. The idea of balance extends to our program, where we have increased the number of speaking slots from 105 to 130 in recognition of increased interest, while maintaining community-based morning plenary sessions.

In light of the loss of the 2020 conference, we have emphasized the importance of students and early-career scientists to the severe storms community in our program. Our conference theme is centered on the 2020s: "The Decade Ahead." We hope that when the decade concludes, these young people will include those at the forefront of our field. It is more important than ever that they are welcomed into our growing community and given the opportunity to participate and engage in the scientific dialogue only found at conferences like SLS. We are excited by the increasingly global and diverse faces in our field. Attendees from Australia, Europe, Asia, and South America, including students, inform us of the growing reach of the conference. We also continue to see improvements in gender participation in the conference from past years. This year, 26% of talks will be given by female presenters, down from Stowe (34%) but up substantially from Portland (15%). We hope the coming years see an end to the disproportionate effects of Covid on female participation and production in the sciences.

We greatly appreciate the amount of work the Program Committee has done to make this a successful conference, particularly given the large number of abstract submissions. We would also like to thank those who helped plan a valuable and fun set of special events, including: the opening ice breaker and food/beverage breaks throughout the week (Tony Reinhart, Kenzie Krocak, Matt Flournoy), a women's dinner on Wed. night (Becky Adams-Salin and Alex Anderson-Frey), and student presentation judging (Matt Brown, Alex Anderson-Frey, Shawn Murdzek, Manda Chasteen, Becky Adams-Selin, Bryan Smith, Scott Loeffler, Aaron Hill).

Finally, since we have been conference co-chairs for four years we have worked with multiple AMS Staff and Meeting Coordinators from the initial location selection, through remote options,

and to the final steps of actually carrying the conference out. Most recently Cati Iannarilli and Jeiry Nin Gomera, but also Jen Ives and Meghan Summers have all put in long hours, virtual meetings, and 100s of emails during the planning and execution of this conference. Thanks to all of you at AMS!

Thanks to everyone participating in the conference both locally and virtually. We look forward to an amazing week and hope you find this a fun and productive meeting!

Program co-chairs,

Kristin Calhoun and Michael French

Monday, 24 October 2022			
Eldorado Ballroom			
8:15	The Decade Ahead: Forecasting, Communication, and Impacts		8:15
	<p>Introductory Remarks</p> <p>1.1: How Close is the Warn-on-Forecast System to Transitioning to Operations? Pamela Heinselman</p> <p>1.2: Can the 3DRTMA replace the SPC Mesoanalysis? Therese Thompson Ladwig</p> <p>1.3: Probabilistic Forecast Guidance for Severe Convective Storms Using GEFS Reforecasts and Machine Learning Russ S. Schumacher</p> <p>1.4: Adding Context to Risk: Climatology of Relative Probabilities in the SPC Convective Outlook Sean Robert Ernst</p> <p>1.5: Evaluating severe thunderstorm warning message characteristics: what are we communicating and how do people respond? Makenzie Krocak</p> <p>Discussion</p>		
10:00	Coffee Break (Cava)		
Eldorado Ballroom			
10:45	Hailstorms and Hailstones: Physical Processes and Properties		10:45
	<p>2.1: Two Paradigms for Radar-Based Hail-Size Estimation: Problems & Possibilities Matthew Kumjian</p> <p>2.2: The Stochastic yet Opportunistic Nature of Hail Growth Rebecca D. Adams-Selin</p> <p>2.3: What Do You Hail From? Tracking Hail Sources in Bulk Microphysics Edward Mansell</p> <p>2.4: Physical assumptions about nonspherical hailstone shapes Yuzhu Lin</p> <p>2.5: Linking hailstone shapes to their polarimetric radar scattering properties Robert Schrom</p>		
12:00	Lunch Break		12:00
1:15	Formal Poster Viewing (Anasazi Ballroom)		1:15
	Eldorado Ballroom A	Eldorado Ballroom B	
2:45	Convection-allowing Models: Development, Assimilation, and Results		2:45
	<p>3.1A: Verification of Storm Attributes from RRFs and HRRR forecasts Larissa Joy Reames</p> <p>3.2A: A New Idealized Test Suite for Convective-Scale Models Louis J. Wicker</p> <p>3.3A: The influence of model configuration vs. initial and boundary conditions in next-day CAM forecasts: a controlled experiment Adam J. Clark</p> <p>3.4A: Assimilation of Novel Radar and Satellite Observations to Improve the Depiction of Trigger Mechanisms in the PBL for Convection Initiation Keenan Christopher Eure</p> <p>3.5A: Storm Modification of Kinematic and Thermodynamic Variables in WRF-Based CAMs Benjamin Hauk Remington</p>	<p>3.1B: Observed Low-Level Cloud and Related Boundary Layer Characteristics Preceding Severe Cold-Season QLCSs over Northern Alabama Kevin Knupp</p> <p>3.2B: Analysis of Cold Pool Heterogeneities in Quasi-Linear Convective Systems during PERILS Joshua S. Ostaszewski</p> <p>3.3B: Examining Lightning Flash Rates and Areas as a Proxy for Cold-Pool Heterogeneity and Tornado Potential in QLCS storms during the PERILS Field Project Vicente Salinas</p> <p>3.4B: Dual-Pol Radar Precursor Signatures for QLCS Mesovortices Charles M. Kuster</p> <p>3.5B: Investigation of Tornado-Like Vortex Genesis and Maintenance in Simulated High-Shear, Low-CAPE QLCSs Jessica M. McDonald</p>	
4:00	Coffee Break (Cava)		4:00
4:30	Interaction of Convective Storms and Tornadoes with Topography: Impacts and Importance		4:30
	<p>4.1A: The Influence of Mountains on Simulated Low-level Vertical Vorticity in Idealized Quasi-linear Convective Systems Kelly Lombardo</p> <p>4.2A: Understanding the Role of Complex Terrain in Tornadogenesis Using Ensembles Branden T. Katona</p> <p>4.3A: Understanding Complex Terrain Effects on Tornado Dynamics Using Tree-Fall Observations and High-Resolution Simulations David J. Bodine</p> <p>4.4A: Relationships Between Topography and Land Cover with Tornadogenesis and Decay Points in Oklahoma and Arkansas Jana B. Houser, PhD</p>	<p>4.1B: Medium-range Severe Weather Predictions with Random Forests Aaron Hill</p> <p>4.2B: Does explicit convective mode information improve machine learning-based forecasts of convective hazards? Ryan A. Sobash</p> <p>4.3B: Machine Learning Estimation of Storm Updrafts Randy J. Chase</p> <p>4.4B: An Overview of the Machine Learning-Based Tornado Potential Algorithm for Real-Time Probabilistic Guidance Thea Sandmael</p>	
5:30	Sessions End for the Day		5:30
6:00	Student and Early Career Reception		6:00
7:00	Ice Breaker Reception (Casa Espana)		7:00

Tuesday, 25 October 2022		
Eldorado Ballroom		
8:30	The Decade Ahead: Supercell Analysis, Forecasting, and Impacts	8:30
	<p>5.1: The influence of convection initiation strength on subsequent simulated supercell evolution Matthew D. Flounroy</p> <p>5.2: Three-Dimensional Thermodynamic Observations in a Supercell Thunderstorm on 31 May 2022 near Arkansas City, KS, via a Swarm of Balloon-Borne Sondes Elissa Bartos</p> <p>5.3: The Kinematic Character of Forward Flank Outflows from the TORUS Project Christopher C. Weiss</p> <p>5.4: Environmental versus storm-generated SRH contributions to low-level mesocyclonegenesis Brice Evan Coffey</p> <p>5.5: Insights into supercells and their environments through field-project soundings and comparison to SPC mesoanalysis Michael C. Coniglio</p> <p>Discussion</p>	
10:00	Coffee Break (Cava)	10:00
Eldorado Ballroom		
10:45	Severe Convection in a Warming Climate	10:45
	<p>6.1: A Convective Windstorm in a Future Climate: A PGW Study of the 10 August 2020 Midwest Derecho Sonia Lasher-Trapp</p> <p>6.2: Global Climatology of Severe Storm Environments and Future Projections Under a Warming Climate John T. Allen</p> <p>6.3: The temperature dependence of severe convective storms at constant CAPE and shear Daniel R Chavas</p> <p>6.4: The Future of Supercells over North America Walker S. Ashley</p> <p>6.5: The impact of human-induced climate change on tornado intensity as revealed through multi-scale modeling Robert J. Trapp</p>	
12:00	Lunch Break	12:00
1:15	Formal Poster Viewing (Anasazi Ballroom)	1:15
	Eldorado Ballroom A	Eldorado Ballroom B
2:45	Forecasting Severe Hazards I	Supercells I: Supercell Evolution
	<p>7.1A: Evaluating Random Forest-Based Predictions of Tornadoes, Wind, and Hail at Two- to Three-Day Lead Times Alexandra Mazurek</p> <p>7.2A: Resolution Requirements for Moving Towards Explicit Prediction of Tornadoes in the Warn-on-Forecast System Austin W. Dixon</p> <p>7.3A: Evaluation of First-Guess Watch Guidance in the 2022 HWT Spring Forecasting Experiment David R. Harrison</p> <p>7.4A: WoFS and the Wisdom of the Crowds: Exploring Experimental Forecasts Issued during the 2021 Spring Forecasting Experiment Burkely Twiest Gallo</p> <p>7.5A: The Performance of the Warn-on-Forecast Hybrid Data Assimilation and Forecasting System During the HWT Spring Forecast Experiment in 2021 Jidong Gao</p>	<p>7.1B: Targeted Observation by Radars and UAS of Supercells (TORUS): Summary of the 2019 and 2022 field campaigns Adam L. Houston</p> <p>7.2B: Using Remote and In Situ Observations from TORUS to Investigate the Evolution of Supercells Interacting with Airmass Boundaries on 28 May 2019 Kristen L. Axon</p> <p>7.3B: Mesoscale Influences on the Evolution of the 27-28 April 2011 Supercell Tornado Outbreak, Part 2: Cell Mergers and Subsequent Supercell and Tornado Evolution Anthony W. Lyza</p> <p>7.4B: Role of Baroclinic Vorticity Generation in the 9 June 2009 Greensburg, KS supercell during VORTEX2 Conrad L. Ziegler</p> <p>7.5B: Mutual influences of adjacent supercells in multistorm simulations Adam D. Werkema</p>
4:00	Coffee Break (Cava)	
4:30	Novel observations and their use	Hazard Climatologies I
	<p>8.1A: Understanding damage variability of high-wind impacts and the role of land cover in rural areas using high-resolution imagery and geospatial analysis Melissa A Wagner</p> <p>8.2A: In-situ Impact Disdrometer & Physical Measurements of Hail in the 4 May 2022 Crowell, Texas Tornadoic Supercell Ian M. Giammanco</p> <p>8.3A: Link Between Lightning Activity and Properties of ZDR Columns Raquel M. Evaristo</p> <p>8.4A: A Unified Theory of Satellite-Observed Features at the Top of Severe Storms Pao K. Wang</p>	<p>8.1B: Convective Mode Classification and Climatology of Tornado Events in the Contiguous United States 2000–2020. Andrew D Lyons</p> <p>8.2B: Automatically Derived Radar Attributes of Tropical Cyclone Tornadoes: A Climatology From 2013-2020 Justin R Spotts</p> <p>8.3B: Errors, Oddities and Artifacts in U.S. Tornado Data, 1995–2020 Roger Edwards</p> <p>8.4B: HREF Climatology of Storm-Attribute Fields Israel L. Jirak</p>
7:30	From Theory to Practice: Novel Ideas in Tornado Science	
	<p>9.1: Cataloging Madden-Julian oscillation influences on tornado and hail frequency Victor A. Gensini</p> <p>9.2: Predictability of Large-Scale Patterns that Lead to Tornado Outbreaks at Lead Times Out to 14 Days Allison L. Brannan</p> <p>9.3: Evaluating the Three-Ingredients Method for Nowcasting QLCS Tornadoes Todd A Murphy</p> <p>9.4: Disentangling the influences of storm-relative flow, updraft width, and horizontal streamwise vorticity on low-level supercell mesocyclones John M. Peters</p> <p>9.5: Is a coherent vorticity source required for tornadogenesis? Matthew D. Parker</p> <p>Discussion</p>	
9:00	Sessions End for the Day	
9:00		9:00

Wednesday, 26 October 2022		
Eldorado Ballroom		
8:30	The Decade Ahead: Tornado Analysis, Forecasting, and Impacts	8:30
	<p>10.1: Towards an Updated Conceptual Model of Tornadogenesis Jannick Fischer</p> <p>10.2: Tornadogenesis in High-end Tornadic Supercells (Part 3) - Moore, Oklahoma EF5 on May 20, 2013 - A Representative Case of Tornadogenesis John Christopher Broyles</p> <p>10.3: Marginal US Tornado Environments: Tipping the Balance Alexandra Anderson-Frey</p> <p>10.4: Tornado Climatology, Ongoing Tornado Observational Studies, Future Tornado Structure Study Joshua Wurman</p> <p>10.5: Rethinking Warning Compliance and Complacency by Examining how People Manage Risk and Vulnerability during Real-world Tornado Threats Julie Demuth</p> <p>Discussion</p>	
10:00	Coffee Break (Cava)	10:00
	Eldorado Ballroom A	Eldorado Ballroom B
10:45	Assessing Impacts and Resiliency from Convectively-induced Winds and Tornadoes	Hailstorms and Hailstones II: Radar Analysis, Observations, and Environments
	<p>11.1A: On the Current Revision of the Enhanced Fujita (EF) Scale Timothy P. Marshall</p> <p>11.2A: Comparison of Wind Speed Estimation Methods Applied to the Monroe, LA tornado of 12 April 2020 James G. LaDue</p> <p>11.3A: Radar Estimates of Tornado Wind Speeds Using the Draft ASCE Standard: Monroe, LA Tornado of April 12, 2020 Donald W. Burgess</p> <p>11.4A: Development of the International Fujita (IF) scale to rate Tornado and Convective Wind Damage Alois M. Holzer</p> <p>11.5A: Investigating the Interaction of Tornadoes and Structures, and the Future of Tornado-Resilient Communities Zachary B. Wienhoff</p>	<p>11.1B: Rapid-Scan, Dual-Polarization Radar Observations of Hail-Producing Storms Laura Shedd</p> <p>11.2B: Analysis of Doppler Velocity in Three-Body Scattering Signatures for use in Hail Size Estimation Anna VanAlstine</p> <p>11.3B: Hailstone Trajectory Analysis from the Radar-Observed 29 – 30 May 2012 Kingfisher, OK Supercell Lauren E. Pounds</p> <p>11.4B: A High-Speed, High-Resolution, Dual-Camera Imager for Photographing Naturally Falling Hailstones Jeffrey C. Snyder</p> <p>11.5B: A 10-Year Proximity Sounding Analysis of Severe Hail-Producing Supercells Elisa M. Murillo</p>
12:00	Lunch Break	12:00
1:15	Formal Poster Viewing (Anasazi Ballroom)	1:15
2:45	Flash Flooding and Snow Squalls	Forecasting Severe Hazards II
	<p>12.1A: The 24 August 2020 Whitehall, New York Flash Flood Thomas A. Wasula</p> <p>12.2A: ML-Based Guidance for Impact-Based Flash Flood Warnings Jorge Alberto Duarte</p> <p>12.3A: FV3-LAM CAM Ensemble Consensus and Machine Learning Products for Predicting Heavy Rain in the Hydrometeorology Testbed Keith A. Brewster</p> <p>12.4A: Multi-Scale Analysis of a Pair of High Impact Snow Squall Events in Central Pennsylvania Gregory Alan DeVoir</p>	<p>12.1B: Characteristics of GEFSv12 high and low skill day 10 forecasts for tornadoes in the United States Douglas E. Miller</p> <p>12.2B: The Use of Updraft Helicity as a Severe Weather Surrogate for Convective Systems Morris L. Weisman</p> <p>12.3B: Examination of Updraft Helicity Diagnostics in 1- and 3-km Grid-Spacing Versions of the NSSL-WRF Kent H. Knopfmeier</p> <p>12.4B: Post-processing and Verification of Storm Attributes from a Convection-permitting Ensemble for Hail Forecasting in Australia Robert A Warren</p>
3:45	Sessions End for the Day	3:45

Thursday, 27 October 2022		
Eldorado Ballroom		
8:30	The Decade Ahead: QLCS Analysis, Forecasting, and Impacts	8:30
	<p>13.1: A Detailed Examination of QLCS Mesovortices in High Shear, Low CAPE Environments Geoffrey R. Marion</p> <p>13.2: Multi-Doppler Analysis of QLCS Mesovortices Observed During the 30 April 2017 Mission of the VORTEX-SE Field Campaign Daniel M. Stechman</p> <p>13.3: Microphysical and kinematic signals in lightning measurements from southeastern US storms Kelcy Brunner</p> <p>13.4: Using Radiosonde Observations to Assess The 'Three Ingredients' Method to Forecast QLCS Mesovortices Max Ungar</p> <p>13.5: Identification and Verification of Quasi-Linear Convective Systems Predicted by the Warn-on-Forecast System (WoFS) Kelsey C. Britt</p> <p>Discussion</p>	
10:00	Coffee Break (Cava)	10:00
10:45	High Impact Events	10:45
	<p>14.1: Mechanisms Driving Extreme Winds in the Iowa Derecho on 10 August 2020 Thomas Galarnau</p> <p>14.2: Multiscale Process Interactions and Upscale Feedbacks During the 26-27 April 2011 Tornado Outbreak Manda B. Chasteen</p> <p>14.3: A Derecho, Wildfire Outbreak, and Sting Jet: Analysis of the High-Impact Weather Events in the Central Great Plains on 15 December 2021 Michelle R. Spencer</p> <p>14.4: Risk Communication of Christopher D. Wirz</p> <p>14.5: Revisiting U.S. Nocturnal Tornado Vulnerability and its Influence on Tornado Impacts Stephen M. Strader</p>	
12:00	Lunch Break	12:00
1:15	Formal Poster Viewing (Anasazi Ballroom)	1:15
	Eldorado Ballroom A	Eldorado Ballroom B
2:45	Supercells II: Impact of Supercell Environments on Storm Properties and Processes	Derechos and Severe Wind
	<p>15.1A: An Analysis of the Impact of Vertical Wind Shear on Convection Initiation Using Large-Eddy Simulations: Importance of Wake Entrainment Luke Justin LeBel</p> <p>15.2A: Hurricane Supercell Mesocyclone Tendency in Three Landfalling Tropical Cyclones A. Addison Alford</p> <p>15.3A: Assessing the Comparative Effects of Storm-relative Helicity Components within Right-moving Supercell Environments Nicholas A. Goldacker</p> <p>15.4A: The Impact of the Lifting Condensation Level on Supercell Cold Pool Strength and the Sensitivity of Cold Pools to the Microphysics Parameterization Shawn Murdzek</p> <p>15.5A: Examining the Impact of Mid-Level Shear and Low-Level Storm-Relative Flow on Supercell Characteristics and Evolution Andrew James Muehr</p>	<p>15.1B: Analysis of the Predictability of Warm-season Progressive Derechos. Part I: Operational Predictability and Synoptic Pattern Results Steven J. Weiss</p> <p>15.2B: Analysis of the Predictability of Warm-Season Progressive Derechos. Part II: Experiments Using a Convection-Allowing MPAS Ensemble Bruno Ribeiro</p> <p>15.3B: The Midwestern Derecho of August 10, 2020: Challenges and Surprises in FV3-LAM Simulations William A. Gallus Jr.</p> <p>15.4B: Elevated or Not: Case Studies of Discrete Nocturnal Convection Producing Significant Severe Winds Keith Sherburn</p> <p>15.5B: Defining and Classifying Mesoscale Windstorms Associated with High-intensity Pressure Fall Phenomena Anton Seimon</p>
4:00	Coffee Break (Cava)	4:00
4:30	Supercells III: Streamwise Vorticity Currents	Hazard Climatologies II
	<p>16.1A: Investigating Environmental Influences on the Streamwise Vorticity Current and its Downstream Impacts Alex Schueth</p> <p>16.2A: Kinematic and Thermodynamic Analysis of Updraft Structure and the Streamwise Vorticity Current in a Southeastern Tornadoic Supercell Storm Michael J. Hosek</p> <p>16.3A: Possible Role of Storm-Generated Storm Relative Helicity in Low-Level Mesocyclone Development and Intensification in Simulated Supercells Catherine A. Finley</p> <p>16.4A: The Development of Streamwise Vorticity Currents in Simulated Supercell Outflow Surges and Their Characteristics Kevin Thomas Gray</p>	<p>16.1B: Investigating pre-convective environments for different convective modes over Lake Victoria using ERA5 reanalysis Anna del Moral, Ph.D</p> <p>16.2B: A Climatology of Convective Precipitation over Central and Southern Europe Miranda Irene Bitting</p> <p>16.3B: High-Resolution Climatology of the Afternoon-to-Evening Transition using Ground-Based Remote Sensing Matthew Starke</p> <p>16.4B: Reconstructing Long-Term (1950-2021) Trends in Lightning, Large and Very Large Hail Using Additive Logistic Regression Models Francesco Battaglioli</p>
5:30	Sessions End for the Day	
		5:30

Friday, 28 October 2022			
Eldorado Ballroom A		Eldorado Ballroom B	
8:30	Using Radar to Understand and Predict Severe Storms		8:30
	<p>17.1A: Evaluating Benefits & Capabilities of Phased Array Radar Scanning Modes for Detecting Tornado Formation and Intensification Brandon K. Cohen</p> <p>17.2A: Can We Advance Our Understanding of Supercell Dynamics and Microphysics Using Spectral Polarimetry? Howard B. Bluestein</p> <p>17.3A: An Analysis of the 17 May 2019 McCook / Farnam, NE Tornadoic Supercell Observed during TORUS through a Triple-Doppler Retrieval and Diabatic Lagrangian Analysis Approach Martin Satrio</p> <p>17.4A: A Radar Simulation and Large-Eddy Simulation Approach to Exploring Observational Tornado Debris Signature Hypotheses Rachael Nicole Cross</p> <p>17.5A: A 10-Year Analysis of Radar Observations of Severe Hail-Producing Supercells Cameron R. Homeyer</p> <p>17.6A: Enhancing the Multi-Radar Multi-Sensor System Severe Products by Incorporating Supplemental X-Band Radars Anthony E. Reinhart</p>	<p>17.1B: Evaluating HRRR Model Forecasts of Impactful Severe Weather Events in Upstate New York Between 2017 and 2020 Rachel Anne Eldridge</p> <p>17.2B: Using Machine Learning to Predict Forecast Skill in the NSSL Warn-on-Forecast System Corey K. Potvin</p> <p>17.3B: Warn-on-Forecast System Output as a Verification Tool for Severe Wind Events Nathan A. Dahl</p> <p>17.4B: Preliminary Evaluation of a Real-Time Diagnostic Tornado Damage Intensity Estimation Tool used at the Storm Prediction Center Bryan T. Smith</p> <p>17.5B: A Continuing Review of the "Tornado Possible" Tag in NWS Severe Thunderstorm Warnings Sean Tod Whelan</p> <p>17.6B: Tornado Warnings, Time, and the Merkle Conundrum Harold E Brooks</p>	
10:00	Coffee Break (Cava)		10:00
10:45	Storm and High-Resolution Modeling		10:45
	<p>18.1: Microphysical Effects on Convective Cold Pool Initiation during CACTI Tobias Innes David Ross</p> <p>18.2: Investigating the Relationship between Cloud Microphysics and Electrification in Southeast US Storms Using Cold pool and Lightning Characteristics Milind Sharma</p> <p>18.3: Entrainment in Simulated Supercell Thunderstorms Enoch Jo</p> <p>18.4: What controls the optimal surface drag strength for tornadogenesis in different environments? Qin Jiang</p> <p>18.5: Modeling Near-Surface Turbulence in Large-Eddy Simulations of a Tornado: Accounting for the Influence of Unsteadiness and Horizontal Heterogeneities Aaron Wang</p> <p>18.6: A vortex-relative perspective on tornadogenesis in a large-eddy supercell simulation containing a violent long-track tornado Leigh Orf</p> <p>Concluding Remarks</p>		
12:30	Conference Adjourns		12:30

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A				D (Continued)				
	Adams-Selin, R. D.	30SLS 2.2	Mon 11:00 AM		Dowell, D.	30SLS 148	Wed 1:15 PM	
	Alexander, C. R.	30SLS 51	Mon 1:15 PM		Duarte, J. A.	30SLS 12.2A	Wed 3:00 PM	
	Alford, A. A.	30SLS 15.2A	Thu 3:00 PM		E			
	Allen, J. T.	30SLS 7	Mon 1:15 PM		Eastin, M. D.	30SLS 72	Tue 1:15 PM	
	Allen, J. T.	30SLS 6.2	Tue 11:00 AM		Eastin, M. D.	30SLS 73	Tue 1:15 PM	
	Anderson-Frey, A.	30SLS 10.3	Wed 9:00 AM		Edwards, R.	30SLS 8.3B	Tue 5:00 PM	
	Arseneau, I. C.	30SLS 80	Tue 1:15 PM		Edwards, R.	30SLS 171	Thu 1:15 PM	
	Ashley, W. S.	30SLS 6.4	Tue 11:30 AM		Edwards, R.	30SLS 17.1B	Fri 8:30 AM	
	Axon, K. L.	30SLS 7.2B	Tue 3:00 PM		Eldridge, R. A.	30SLS V27	Wed 1:00 PM	
B					Elliott, L.	30SLS 169	Thu 1:15 PM	
	Bartos, E.	30SLS 5.2	Tue 8:45 AM		Emmerson, S.	30SLS 1.4	Mon 9:15 AM	
	Bartos, E.	30SLS 78	Tue 1:15 PM		Ernst, S. R.	30SLS 3.4A	Mon 3:30 PM	
	Battaglioli, F.	30SLS 6	Mon 1:15 PM		Eure, K. C.	30SLS 8.3A	Tue 5:00 PM	
	Battaglioli, F.	30SLS 16.4B	Thu 5:15 PM		Evaristo, R. M.			
	Bechis, H.	30SLS 2	Mon 1:15 PM		F			
	Bechis, H.	30SLS 177	Thu 1:15 PM		Fairman, J. G. Jr	30SLS 82	Tue 1:15 PM	
	Berndt, C.	30SLS 33	Mon 1:15 PM		Faletti, W. L. Jr.	30SLS 108	Tue 1:15 PM	
	Berrington, A.	30SLS 36	Mon 1:15 PM		Fan, D.	30SLS V15	Wed 1:00 PM	
	Berrington, A.	30SLS 81	Tue 1:15 PM		Fan, D.	30SLS 29	Mon 1:15 PM	
	Betancourt, D.	30SLS V18	Wed 1:00 PM		Fan, Z.	30SLS 69	Tue 1:15 PM	
	Biswasharma, R.	30SLS 10	Mon 1:15 PM		Feldmann, M.	30SLS 213	Thu 1:15 PM	
	Bitting, M. I.	30SLS 16.2B	Thu 4:45 PM		Ferguson, A. P.	30SLS 16.3A	Thu 5:00 PM	
	Blahak, U.	30SLS 200	Thu 1:15 PM		Finley, C. A.	30SLS 10.1	Wed 8:30 AM	
	Blind, L.	30SLS 98	Tue 1:15 PM		Fischer, J.	30SLS 50	Mon 1:15 PM	
	Bluestein, H. B.	30SLS 15	Mon 1:15 PM		Flora, M. L.	30SLS 5.1	Tue 8:30 AM	
	Bluestein, H. B.	30SLS 17.2A	Fri 8:45 AM		Flourmoy, M. D.	30SLS 193	Thu 1:15 PM	
	Bodine, D. J.	30SLS 4.3A	Mon 5:00 PM		Flourmoy, M. D.	30SLS 67	Tue 1:15 PM	
	Boggs, L.	30SLS V2	Wed 1:00 PM		Frame, J. W.	30SLS 191	Thu 1:15 PM	
	Bohlmann, E.	30SLS 137	Wed 1:15 PM		Frame, J. W.	30SLS 129	Wed 1:15 PM	
	Brandt, S.	30SLS 62	Tue 1:15 PM		Frank, L. R.	30SLS 65	Tue 1:15 PM	
	Brannan, A. L.	30SLS 9.2	Tue 7:45 PM		French, M. M.	30SLS 126	Wed 1:15 PM	
	Brannan, A. L.	30SLS 204	Thu 1:15 PM		Fricke, T.			
	Brewster, K. A.	30SLS 12.3A	Wed 3:15 PM		G			
	Brimelow, J.	30SLS 116	Wed 1:15 PM		Galarneau, T.	30SLS 56	Mon 1:15 PM	
	Britt, K. C.	30SLS 13.5	Thu 9:30 AM		Galarneau, T.	30SLS 14.1	Thu 10:45 AM	
	Brooks, H. E.	30SLS 17.6B	Fri 9:45 AM		Gallo, B. T.	30SLS 7.4A	Tue 3:30 PM	
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	Broyles, J. C.	30SLS 13	Mon 1:15 PM		Gallo, B. T.	30SLS 15.3B	Thu 3:15 PM	
	Broyles, J. C.	30SLS 14	Mon 1:15 PM		Gallo, B. T.	30SLS 7.5A	Tue 3:45 PM	
	Broyles, J. C.	30SLS 10.2	Wed 8:45 AM		Gallus, W. A. Jr.	30SLS 181	Thu 1:15 PM	
	Brunner, K.	30SLS 13.3	Thu 9:00 AM		Gao, J.	30SLS 9.1	Tue 7:30 PM	
	Burgess, D. W.	30SLS 11.3A	Wed 11:15 AM		Garcia Rosales, A.	30SLS 163	Wed 1:15 PM	
	Burke, P. C.	30SLS 44	Mon 1:15 PM		Gensini, V. A.	30SLS 8.2A	Tue 4:45 PM	
C					Gerard, A.	30SLS 15.3A	Thu 3:15 PM	
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	Chase, R. J.	30SLS 4.3B	Mon 5:00 PM		Goodnight, J.	30SLS 16	Mon 1:15 PM	
	Chasteen, M. B.	30SLS 14.2	Thu 11:00 AM		Gourley, J. J.	30SLS 164	Thu 1:15 PM	
	Chavas, D. R.	30SLS 6.3	Tue 11:15 AM		Grasso, L.	30SLS 16.4A	Thu 5:15 PM	
	Chen, J. Y.	30SLS 197	Thu 1:15 PM		Grasso, L.	30SLS 110	Wed 1:15 PM	
	Chen, M.	30SLS 61	Tue 1:15 PM		H			
	Cheng, K. Y.	30SLS 189	Thu 1:15 PM		Haberlie, A.	30SLS 188	Thu 1:15 PM	
	Chmielewski, V. C.	30SLS 155	Wed 1:15 PM		Harrison, D. R.	30SLS 7.3A	Tue 3:15 PM	
	Cirino, N.	30SLS 37	Mon 1:15 PM		Haseemkunj, A. V.	30SLS 143	Wed 1:15 PM	
	Clark, A. J.	30SLS 3.3A	Mon 3:15 PM		Havenga, H.	30SLS V28	Wed 1:00 PM	
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	Coffer, B. E.	30SLS 5.4	Tue 9:15 AM		Henderson, J.	30SLS 142	Wed 1:15 PM	
	Coffer, B. E.	30SLS 64	Tue 1:15 PM		Herdies, D. L.	30SLS 201	Thu 1:15 PM	
	Cohen, B. K.	30SLS 17.1A	Fri 8:30 AM		Hernandez, S.	30SLS 75	Tue 1:15 PM	
	Coleman, A. A.	30SLS 149	Wed 1:15 PM		Hill, A.	30SLS 4.1B	Mon 4:30 PM	
	Coleman, T. A.	30SLS V6	Wed 1:00 PM		Hitchens, N. M. Holzer,	30SLS V21	Wed 1:00 PM	
	Conder, M. R.	30SLS 139	Wed 1:15 PM		Holzer, A. M. Homeyer,	30SLS 11.4A	Wed 11:30 AM	
	Coniglio, M. C.	30SLS 5.5	Tue 9:30 AM		Hosek, M. J.	30SLS 138	Wed 1:15 PM	
	Coniglio, M. C.	30SLS 161	Wed 1:15 PM		Houser, J. B.	30SLS 17.5A	Fri 9:30 AM	
	Cross, R. N.	30SLS 119	Wed 1:15 PM		Houser, J. B.	30SLS 49	Mon 1:15 PM	
	Cross, R. N.	30SLS 17.4A	Fri 9:15 AM		Houston, A. L. Houston,	30SLS 16.2A	Thu 4:45 PM	
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	Cui, W.	30SLS 175	Thu 1:15 PM		Huggins, J. Hutchinson,	30SLS 4.4A	Mon 5:15 PM	
D					Huggins, J. Hutchinson,	30SLS 7.1B	Tue 2:45 PM	
	Dahl, N. A.	30SLS 17.3B	Fri 9:00 AM		Hua, Z.	30SLS 163A	Wed 1:15 PM	
	Dale, J.	30SLS 40	Mon 1:15 PM		Hua, Z.	30SLS 182	Thu 1:15 PM	
	Dawson, D. T.	30SLS 154	Wed 1:15 PM		Hua, Z.	30SLS 60	Tue 1:15 PM	
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	Del Moral, A.	30SLS 16.1B	Thu 4:30 PM		I			
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	Diedrichsen, M.	30SLS 66	Tue 1:15 PM		J			
	Diedrichsen, M.	30SLS 192	Thu 1:15 PM		Jahn, D. E.	30SLS 47	Mon 1:15 PM	
	Dixon, A. W.	30SLS 7.2A	Tue 3:00 PM		Jernigan, I. K.	30SLS 131	Wed 1:15 PM	
	Dodd, A.	30SLS 121	Wed 1:15 PM		Jessup, S. M.	30SLS V23	Wed 1:00 PM	
	Dodson, D. J.	30SLS 55	Mon 1:15 PM		Jiang, Q.	30SLS 18.4	Fri 11:30 AM	
	Dos Santos, L. D. O.	30SLS 125	Wed 1:15 PM		Jirak, I. L.	30SLS 8.4B	Tue 5:15 PM	
	Dos Santos, L. D. O.	30SLS 179	Thu 1:15 PM		Jo, E.	30SLS 18.3	Fri 11:15 AM	
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					M. R.			

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J (Continued)			
	30SLS 83	Tue	1:15 PM
	30SLS V13	Wed	1:00 PM
K			
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	30SLS 205	Thu	1:15 PM
	30SLS 4.2A	Mon	4:45 PM
	30SLS 27	Mon	1:15 PM
	30SLS 103	Tue	1:15 PM
	30SLS 114	Wed	1:15 PM
	30SLS 141	Wed	1:15 PM
	30SLS 12.3B	Wed	3:15 PM
	30SLS 3.1B	Mon	2:45 PM
	30SLS 153	Wed	1:15 PM
	30SLS 168	Thu	1:15 PM
	30SLS 1.5	Mon	9:30 AM
	30SLS 178	Thu	1:15 PM
	30SLS 146	Wed	1:15 PM
	30SLS 2.1	Mon	10:45 AM
	30SLS 112	Wed	1:15 PM
	30SLS 113	Wed	1:15 PM
	30SLS 3.4B	Mon	3:30 PM
L			
	30SLS 11.2A	Wed	11:00 AM
	30SLS 1.2	Mon	8:45 AM
	30SLS 123	Wed	1:15 PM
	30SLS 31	Mon	1:15 PM
	30SLS 6.1	Tue	10:45 AM
	30SLS 124	Wed	1:15 PM
	30SLS 15.1A	Thu	2:45 PM
	30SLS V26	Wed	1:00 PM
	30SLS 70	Tue	1:15 PM
	30SLS 184	Thu	1:15 PM
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	30SLS 2.4	Mon	11:30 AM
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	30SLS 59	Tue	1:15 PM
	30SLS 42	Mon	1:15 PM
	30SLS 26	Mon	1:15 PM
	30SLS 4.1A	Mon	4:00 PM
	30SLS V8	Wed	1:30 PM
	30SLS 8.1B	Tue	4:30 PM
	30SLS 21	Mon	1:15 PM
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	30SLS 2.3	Mon	11:15 AM
	30SLS 18	Mon	1:15 PM
	30SLS 13.1	Thu	8:30 AM
	30SLS 22	Mon	1:15 PM
	30SLS 23	Mon	1:15 PM
	30SLS 24	Mon	1:15 PM
	30SLS 25	Mon	1:15 PM
	30SLS 11.1A	Wed	10:45 AM
	30SLS 7.1A	Tue	2:45 PM
	30SLS 3.5B	Mon	3:45 PM
	30SLS 79	Tue	1:15 PM
	30SLS 160	Wed	1:15 PM
	30SLS V16	Wed	1:00 PM
	30SLS 19	Mon	1:15 PM
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	30SLS 1	Mon	1:15 PM
O			
	30SLS V9	Wed	1:00 PM
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	30SLS 9.5	Tue	8:30 PM
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	30SLS 9.4	Tue	8:15 PM
	30SLS 20	Mon	1:15 PM
	30SLS 144	Wed	1:15 PM
	30SLS 68	Tue	1:15 PM
	30SLS 53	Mon	1:15 PM
	30SLS 128	Wed	1:15 PM
	30SLS 17.2B	Fri	8:45 AM
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	30SLS 203	Thu	1:15 PM
	30SLS V10	Wed	1:00 PM
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	30SLS 89	Tue	1:15 PM
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	30SLS 195	Thu	1:15 PM
	30SLS 199	Thu	1:15 PM
	30SLS 176	Thu	1:15 PM
	30SLS 15.2B	Thu	3:00 PM
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S			
	30SLS 3.3B	Mon	3:15 PM
	30SLS 4.4B	Mon	5:15 PM
	30SLS V11	Wed	1:00 PM
	30SLS 210	Thu	1:15 PM
	30SLS 17.3A	Fri	9:00 AM
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	30SLS 2.5	Mon	11:45 AM
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	30SLS 115	Wed	1:15 PM
	30SLS 212	Thu	1:15 PM
	30SLS 1.3	Mon	9:00 AM
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	30SLS 35	Mon	1:15 PM
	30SLS 118	Wed	1:15 PM
	30SLS 15.5B	Thu	3:45 PM
	30SLS V24	Wed	1:00 PM
	30SLS 133	Wed	1:15 PM
	30SLS 9	Mon	1:15 PM
	30SLS 18.2	Fri	11:00 AM
	30SLS 140	Wed	1:15 PM
	30SLS 11.1B	Wed	10:45 AM
	30SLS 15.4B	Thu	3:30 PM
	30SLS 30	Mon	1:15 PM
	30SLS 173	Thu	1:15 PM
	30SLS 196	Thu	1:15 PM
	30SLS 157	Wed	1:15 PM
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	30SLS V31	Wed	1:00 PM
	30SLS 104	Tue	1:15 PM
	30SLS 105	Tue	1:15 PM
	30SLS 17.4B	Fri	9:15 AM
	30SLS 11.4B	Wed	11:30 AM
	30SLS 32	Mon	1:15 PM
	30SLS 4.2B	Mon	4:45 PM
	30SLS 38	Mon	1:15 PM
	30SLS 14.3	Thu	11:15 AM
	30SLS 8.2B	Tue	4:45 PM
	30SLS 16.3B	Thu	5:00 PM
	30SLS 13.2	Thu	8:45 AM
	30SLS 14.5	Thu	11:45 AM
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T			
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	30SLS 13.4	Thu	9:15 AM				
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	30SLS 11.2B	Wed	11:00 AM				
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	30SLS 8.1A	Tue	4:30 PM				
	30SLS 18.5	Fri	11:45 AM				
	30SLS V14	Wed	1:00 PM				
	30SLS 8.4A	Tue	5:15 PM				
	30SLS 186	Thu	1:15 PM				
	30SLS 109	Tue	1:15 PM				
	30SLS 102	Tue	1:15 PM				
	30SLS 12.4B	Wed	3:30 PM				
	30SLS 215	Thu	1:15 PM				
	30SLS V22	Wed	1:00 PM				
	30SLS 12.1A	Wed	2:45 PM				
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	30SLS 15.1B	Thu	2:45 PM				
	30SLS 7.5B	Tue	3:45 PM				
	30SLS 159	Wed	1:15 PM				
	30SLS 17.5B	Fri	9:30 AM				
	30SLS 3.2A	Mon	3:00 PM				
	30SLS 11.5A	Wed	11:45 AM				
	30SLS 106	Tue	1:15 PM				
	30SLS 43	Mon	1:15 PM				
	30SLS 162	Wed	1:15 PM				
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	30SLS 8A	Mon	1:15 PM				
	30SLS 8B	Mon	1:15 PM				
	30SLS 88	Tue	1:15 PM				
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	30SLS V1	Wed	1:00 PM				
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	30SLS 10.4	Wed	9:15 AM				
	30SLS 167	Thu	1:15 PM				
X							
	30SLS 17	Mon	1:15 PM				
Y							
	30SLS 147	Wed	1:15 PM				
Z							
	30SLS 165	Thu	1:15 PM				
	30SLS 7.4B	Tue	3:30 PM				
	30SLS V3	Wed	1:00 PM				

**CONFERENCE ON SEVERE LOCAL STORMS
CONFERENCE SERIES**

DATE	LOCATION	CONFERENCE
10–12 May 1960	St. Louis, MO	(First) Conference on Severe Local Storms
13–15 February 1962	Norman, OK	(Second) Conference on Severe Local Storms
12–14 November 1963	Urbana, IL	Third Conference on Severe Local Storms
19–21 October 1965	Reno, NV	(Fourth) Conference on Severe Local Storms
19–20 October 1967	St. Louis, MO	(Fifth) Conference on Severe Local Storms
8–10 April 1969	Chicago, IL	Sixth Conference on Severe Local Storms
5–7 October 1971	Kansas City, MO	Seventh Conference on Severe Local Storms
15–17 October 1973	Denver, CO	Eighth Conference on Severe Local Storms
21–23 October 1975	Norman, OK	Ninth Conference on Severe Local Storms
18–21 October 1977	Omaha, NE	10 th Conference on Severe Local Storms
2–5 October 1979	Kansas City, MO	11 th Conference on Severe Local Storms
12–15 January 1982	San Antonio, TX	12 th Conference on Severe Local Storms
17–20 October 1983	Tulsa, OK	13 th Conference on Severe Local Storms
29 Oct.–1 Nov. 1985	Indianapolis, IN	14 th Conference on Severe Local Storms
22–26 February 1988	Baltimore, MD	15 th Conference on Severe Local Storms
22–26 October 1990	Kananschis, AB, Canada	16 th Conference on Severe Local Storms
4–8 October 1993	St. Louis, MO	17 th Conference on Severe Local Storms
19–23 February 1996	San Francisco, CA	18 th Conference on Severe Local Storms
14–18 September 1998	Minneapolis, MN	19 th Conference on Severe Local Storms
11–15 September 2000	Orlando, FL	20 th Conference on Severe Local Storms

12–16 August 2002	San Antonio, TX	21 st Conference on Severe Local Storms
4–8 October 2004	Hyannis, MA	22 nd Conference on Severe Local Storms
31 January—2 February	Atlanta, GA	Symposium on the Challenges of Severe Convective Storms
6–10 November 2006	St. Louis, MO	23 rd Conference on Severe Local Storms
27–31 October 2008	Savannah, GA	24 th Conference on Severe Local Storms
11–14 October 2010	Denver, CO	25 th Conference on Severe Local Storms
5–8 November 2012	Nashville, TN	26 th Conference on Severe Local Storms
2–7 November 2014	Madison, WI	27 th Conference on Severe Local Storms
7–11 November 2016	Portland, OR	28 th Conference on Severe Local Storms
22–26 October 2018	Stowe, VT	29 th Conference on Severe Local Storms
24–28 October 2022	Santa Fe, NM	30 th Conference on Severe Local Storms