AMS

American Meteorological Society

40th Conference on Radar Meteorology

28 August - 01 September 2023

Minneapolis, MN

Hyatt Regency Minneapolis

40th Conference on Radar Meteorology

28 August – 01 September 2023

Minneapolis, MN and Online

On behalf of the American Meteorological Society (AMS) Committee on Radar Meteorology, welcome to Minneapolis, Minnesota and the 40th Conference on Radar Meteorology! We are excited for a week of cutting-edge science and discussion, and we look forward to reconvening the AMS radar community after a two-year delay due to the pandemic.

Our scientific program includes nine themes and three community-driven topics, covering traditional radar topics as well as community-designated priorities. The conference theme, "Leveraging Current and Emerging Radar Technologies to Pave the Way Toward New Discoveries and Capabilities," highlights the importance of both scientific and technological innovation to advancing the field of radar meteorology. To that end, we will have a panel discussion to promote discussion on how emerging radar technologies can pave the way to new scientific discoveries. In addition, we will have two special evening events – an icebreaker event on Monday, and a memorial symposium for Dr. Dick Doviak on Tuesday. There will also be a student and early career coffee break on Monday morning.

We received 387 scientific abstracts from 24 countries, with an impressive array of research topics, reflecting many major research advancements over the past four years. A standardized rubric was used to evaluate abstracts, which assessed the relevance to the call for papers, quality of the research plan and writing, description of the findings, and novelty of the work. The large number of excellent submissions made for challenging decisions in determining the oral program. In assembling our conference program, we carefully considered how to provide a voice to a diverse group of speakers to share cutting-edge science research. As one step, we recruited a diverse program committee with members spanning different demographic backgrounds and institutions. When ranking abstracts within subcommittees and in the final program selections, we emphasized the importance of providing speaking opportunities to student and early career researchers, as well as traditionally underrepresented groups.

The technical program consists of 28 oral sessions, three formal poster viewings, seven keynote presentations, and a panel discussion. Within these sessions, there are 174 total oral presentations, 198 in-person posters, and 14 virtual posters, which were presented online last week. Two new themes were included this year, including signal processing and artificial intelligence topics. Over 80 student presentations were submitted and will be evaluated by a team of judges that span a wide breadth of knowledge and experience. Seven prizes will be awarded, including first through third in the oral and poster categories, as well as the Spiros G. Geotis prize for the best overall presentation. We also awarded two AMS travel grants and five registration grants to students, furthering the AMS Radar STAC's goal to further engage students in the field of radar meteorology.

We are indebted to our program subcommittee chairs and members for their volunteer efforts in helping assemble the conference program and provide guidance on many other aspects of conference planning. The full program committee consisted of an astounding 65 people, many of whom sacrificed a significant amount of time to make this conference happen. They provided nearly 800 reviews in less than 3 weeks!

In addition, we would like to thank David Schvartzman and Dusan Zrnic for planning the Monday and Tuesday evening events, and Leanne Blind-Doskocil for organizing and promoting student/early-career activities. We thank Chris Weiss and Milind Sharma for their assistance with the student awards, including recruiting judges and determining the awardees. We also thank our short course organizers, Richard Ice, David Warde, and Max Grover, for providing an educational outlet for over 80 attendees. Finally, we thank our conference sponsors for their support, which greatly enhanced the food and beverage offerings at our special events and breaks. Please take an opportunity to thank them, as well as visit their tables in the poster hall.

We cannot understate our gratitude to the AMS staff for helping to put together this conference. We are especially grateful to Cati Iannarilli for her efforts serving as the lead AMS coordinator and for providing thoughtful and thorough responses to our MANY questions and ideas. We would like to thank several other AMS staff members for their assistance, including Jenn Rosen, Marissa Welch, Jessica Hanley, Anna (Hughes) Vock, Adam Kelly, and Jen Ives. Altogether, they handled many challenging and unpredictable situations associated with the pandemic (and the canceled 2021 conference), and we emerged with a hybrid conference format that can hopefully benefit attendees for years to come.

Finally, we hope you take some time to explore Minneapolis and engage in collaborative discussions. To help, the conference activities end at 3 PM on Wednesday! The Nicollet area near the hotel has abundant dining options, including many restaurants with sidewalk patios to enjoy the comfortable late-August Minnesota climate. Minneapolis has many beautiful city parks with lakes and rivers, including the Loring Park within walking distance of the hotel and an extensive park along the Mississippi River. To explore greater Minneapolis, public transit (subway) can be easily accessed from the hotel to see a Twins baseball game or visit world-class art museums.

David Bodine and Jim Kurdzo
Conference Co-Chairs

28 August - 01 September 2023
Minneapolis, MN
Hyatt Regency Minneapolis

General Information

Organizers
The 40th Conference on Radar Meteorology is organized by the AMS Committee on Radar Meteorology and hosted by the American Meteorological Society.

Connect
Follow conference updates on X (Twitter) @ametsoc. Also share your posts using the hashtag #AMS40Radar

Conference Badges and Registration
All those in attendance of the AMS conference must register and wear the name badge associated with their registration package. 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 at Lake Harriet on the Fourth Floor of the Hyatt Regency. The AMS Registration Desk will be open for registration on Sunday 27 August from 5:00pm-7:00pm, and Monday-Friday during the hours of the conference.

Attendees who have registered for a full week package may attend all conference sessions (in person or virtual), coffee breaks, and events.

Attendees who have registered for a one day package may attend, for one calendar day, admission to all conference sessions (in person or virtual), coffee breaks, and/or receptions that take place on that day.

EVENTS

AMS Student and Early Career Professionals Engagement Coffee Break
Monday, 28 August | 10:00-10:30 AM | Great Lakes Promenade

Icebreaker Event
Monday, 28 August | 5:30-7:30 PM | Boundary Waters
Sponsored by: Meteopress

Dr. Dick Doviak Memorial Symposium
Tuesday, 29 August | 6:30-8:30 PM | Great Lakes Promenade
Sponsored by: Advanced Radar Research Center - University of Oklahoma

Awards Ceremony
Friday, 01 September | 11:00-11:30 AM | Great Lakes BC

General Information

Formal Poster Viewings

All posters will be located in Boundary Waters on the Fourth Floor.

Set Up and Tear Down Information:

Poster Group:	Set Up After:	Tear Down By:
Monday	MON: 12:00 PM	TUE: 10:00 AM
Tuesday	TUES: 12:00 PM	WED: 10:00 AM
Thursday	WED: 12:00 PM	THURS: 5:30 PM

Formal In-Person Poster Viewing Hours:
Monday: 3:00-4:30 PM (Sponsored by EWR Radar Systems)
Tuesday: 3:00-4:30 PM (Sponsored by LEONARDO Germany GmbH)
Thursday: 3:00-4:30 PM

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.

Inclusivity at AMS

AMS is committed to creating an environment for meetings that "embraces diversity through the inclusion of individuals across age, gender, race, sex, nationality, ethnicity, physical ability, marital status, sexual orientation, body shape or size, gender identity and expression, socioeconomic status, and other facets of social diversity"

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Need to report unprofessional or disrespectful conduct? Email conduct@ametsoc.org or call 617-226-3965.

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General Information

Participants should not copy or take screenshots of Q&A or any chat room activity that takes place in the virtual space. This statement is meant to cover all meeting-associated events, including those sponsored by organizations other than AMS but held in relation to AMS events. This includes the scientific program, short courses, and exhibitions, as well as receptions, town hall meetings, and other informal or formal gatherings associated with AMS. Similarly, participants shall adhere to this code of conduct in online spaces related to the meeting and meeting-associated events, including Facebook, Twitter, and other online venues. Those who violate the standards of professional and respectful conduct may be asked to leave the meeting immediately and without refund, may not be considered for service on AMS boards and committees, and may be subject to additional legal action. Harassment, intimidation, or discrimination includes offensive comments and actions related to age, gender and gender identity, sexual orientation, disability, physical appearance, body size, race, religion; sexual images in public spaces; deliberate intimidation, stalking, or following; harassing photography or recording; sustained disruption of talks or other events; inappropriate physical contact; and unwelcome sexual attention.

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If you are the subject of unacceptable behavior or have witnessed any such behavior, please immediately either:
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.

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Thank you and enjoy the conference!

Thank you to our sponsors

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Monday, 28 August 2023			
	Great Lakes BC	Great Lakes A	
8:00	Opening Remarks		8:00
	Airborne and Spaceborne Radar 8:30: **1.1**: Tropical Convection through the Lens of the INCUS Mission **Susan C. van den Heever**		
	Radar in Operational Meteorology 9:00: **1.2**: Science Deliverables to Canadian Weather Radar Network Renewal **Daniel Michelson**		
	Radar History 9:30: **1.3**: History of the Radar Conference **Jim Wilson**		
10:00	**Coffee Break (Great Lakes Promenade)**		10:00
10:30	**Emerging Technology I: Bistatics, Profiling, and Phased Arrays** 10:30: **2A.1:** Simulations of Polarimetric Bistatic Scattering at Multiple Frequencies **Samuel Emmerson** 10:45: **2A.2:** A Phased-Array Bistatic Radar Network for Measuring Atmospheric Convection **Steven Beninati** 11:00: **2A.3:** A BAROmetric Differential Absorption Radar (BARODAR) for surface pressure remote sensing **Alessandro Battaglia** 11:15: **2A.4:** Exploiting All Digital Phased Array Radars for Clutter Mitigation with Space-Time Adaptive Processing **Yoon Kim** 11:30: **2A.5:** A Robust Approach to Polarimetric Calibration for NSSL's Advanced Technology Demonstrator **Igor R Ivic** 11:45: **2A.6:** The NSSL ATD through NWS Eyes: An Assessment of Base Data Quality **Jami B. Boettcher**	**Microphysical Studies with Radar I: Multiparameter Observations of Snow and Ice** 10:30: **2B.1:** High-Resolution Snowstorm Measurements and Retrievals Using Cross-Platform Multi-Frequency and Polarimetric Radars **Edwin Lee Dunnavan III** 10:45: **2B.2:** Airborne Observations of Riming in Arctic Mixed-Phase Clouds during HALO-(AC)3 **Nina Maherndl** 11:00: **2B.3:** Spatial Variability in the Occurrence of Summer Precipitation over a 30 km Transect in the Sør Rondane Mountains, Antarctica **Alfonso Ferrone** 11:15: **2B.4:** Linking Dual-Pol Radar Signatures to Temperature and Microphysics during NASA IMPACTS **Song Zhang** 11:30: **2B.5:** The Polarimetric Radar Scattering Properties of Oriented Aggregates **Robert Schrom** 11:45: **2B.6:** State Dependent Sensitivity of Spaceborne Radar to Ice Cloud Microphysical Assumptions **Derek J. Posselt**	10:30
12:00	**Lunch Break**		12:00
1:30	**Emerging Technology II: Digital Beamforming and Phased Array Signal Processing Techniques** 1:30: **3A.1:** Phase-Only Pattern Synthesis for Imaging Beams Using NURBS **Reece J. Reinke** 1:45: **3A.2:** Digital Beamforming of Unequal APAR Subarrays **Mark Leifer** 2:00: **3A.3:** Novel Adaptive Beamforming Technique for Weather Observations Using the Advanced Technology Demonstrator at NSSL **Feng Nai** 2:15: **3A.4:** Evaluating the Benefit and Utility of All-Digital PAR Imaging Modes for Tornadic and Non-Tornadic Supercells using Synthetic PAR Data **Brandon K. Cohen** 2:30: **3A.5:** SPARS: A Novel Technique for Sampling Meteorological Targets using a Phased Array Radar **Edward Luke** 2:45: **3A.6:** Experimental Validation of the Cross-Polar Canceller (XPC) Technique: A Novel Solution to Improve the Cross-Polar Contamination on Polarimetric Phased Array Weather Radars **Cesar Manuel Salazar**	**Microphysical Studies with Radar II: Polarimetric Observations of Deep Convection** 1:30: **3B.1:** Microphysical Processes Contributing to Extreme Rainfall in Complex Terrain **Angela Rowe** 1:45: **3B.2:** Microphysical Insights from Dual-Polarization Spectral Decomposition in Updraft Environments during the RELAMPAGO Campaign **Ivan Arias Hernandez** 2:00: **3B.3:** Observations and Modeling of Seabreeze Convection Sampled during the Tracking Aerosol Cloud IntERactions (TRACER) Experiment **Robert C. Jackson** 2:15: **3B.4:** Investigating the Relation between Polarimetric Radar Signatures and Downburst Forcing Mechanisms using Spectral Bin Modeling **Jacob Carlin** 2:30: **3B.5:** Detection and Sizing of Hail Using the Differential Phase **Valery M. Melnikov** 2:45: **3B.6:** Characteristic of ZDR Columns in a High-Resolution Numerical Weather Prediction Model **Chun Hay Brian Lo**	1:30
3:00	**PM Coffee Break/Formal Poster Viewing (Boundary Waters)**		3:00
4:30	**Radar Meteorology Education** 4:30: **4A.1:** The Research and Educational Activities with the Mobile Rapid Scan X-Band Polarimetric (RaXPol) Radar As an NSF Community Instrument Facility **David J. Bodine** 4:45: **4A.2:** Open Radar Cookbooks for All **Maxwell A. Grover** 5:00: **4A.3:** A CURE for Radar Meteorology: Piloting the Course-Based Undergraduate Research Experience Format at Purdue University **Robin Tanamachi** 5:15: **4A.4:** The ESPOIRS Project **Joel Van Baelen**	**Airborne and Spaceborne Radar I: Ground Validation of GPM Mea** 4:30: **4B.1:** The Microphysics and Kinematics of GPM's Satellite Radar Profil 4:45: **4B.2:** Melting the Inconsistencies: Enhancing Coherence in Microphysic 5:00: **4B.3:** Assessment of the GPM Rainfall Retrieval Algorithm Using in-Sit 5:15: **4B.4:** Narrowing the Blind Zone of the GPM Dual-Frequency Precipita	4:30
5:30	**Sessions End for the Day**		5:30
5:30	**Icebreaker Reception (Boundary Waters Promenade)**		5:30

Tuesday, 29 August 2023			
	Great Lakes BC	Great Lakes A	
8:00	**Observations of Winter Storms** 8:00: Airborne Radar and Microphysics Signatures in Snowbands as Measured during the IMPACTS Field Campaign **Lynn A. McMurdie** **Severe Storms and Mesoscale Meteorology** 8:30: Investigating the Relationships Between Rotation and Heavy Rainfall Along the Mei-yu Front During PRECIP 2022 **Jennifer C. DeHart** **Panel Discussion** 9:00: Utilizing Emerging Radar Technologies to Achieve New Scientific Discoveries **Jana B. Houser, PHD**		8:00
10:00	**Coffee Break (Boundary Waters)**		10:00
10:30	**Airborne and Spaceborne Radars II: Innovative Airborne Radar Systems and Retrievals** 10:30: **6A.1:** Examining Severe Storm Characteristics with the Airborne Phased Array Radar (APAR) Observing Simulator **Bradley Klotz** 10:45: **6A.2:** Classification of Clouds in Airborne Cloud Radar Observations **Ulrike Romatschke** 11:00: **6A.3:** Challenges of Combining Remote Sensing with In-situ Measurements in Airborne Science and Engineering **Jakob Fusselman** 11:15: **6A.4:** Airborne Radar Doppler Spectrum Width as a Scale-Dependent Turbulence Metric **Adam Majewski** 11:30: **6A.5:** Implementation of the Airborne Phased Array Radar (APAR) Observing Simulator (AOS) Prototype **Wen-Chau Lee** 11:45: **6A.6:** The Structure and Dynamics of the Turbulent Hurricane Boundary Layer from Radar Remote Sensing **Steve R. Guimond**	**Severe Storms and Mesoscale Meteorology I: Observations of Deep Convection and the Boundary Layer** 10:30: **6B.1:** Exploring Convective Boundary Layer Depth and Entrainment Zone Properties with Dual-Polarization Radar Observations **Braedon Stouffer** 10:45: **6B.2:** Does Meteorological Variability Across Sea and Bay-Breeze Fronts Influence Thunderstorm Characteristics? Insights from the TAMU TRACER Field Campaign **Milind Sharma** 11:00: **6B.3:** A Fuzzy Logic Algorithm for Convection Initiation Forecast in Taiwan **Hung-Kuan Li** 11:15: **6B.4:** Characteristics of Thermals in Deep Convective Storms from Radar Observations **Thorwald H. M. Stein** 11:30: **6B.5:** Near-Surface Moisture Variability in the Coastal Environments Revealed from Weather Radars **Ya-Chien Feng** 11:45: **6B.6:** Characteristics of Convective Cores As Revealed in Range-Height Indicator Scans during RELAMPAGO-CACTI **Stephen William Nesbitt**	10:30
12:00	**Lunch Break**		12:00
1:30	**Severe Storms and Mesoscale Meteorology II: Field Campaign Observations of Supercells and Tornadoes** 1:30: **7A.1:** The May 27, 2019 Imperial, NE Supercell during TORUS: Origins, Observations, and Impacts of an SVC **Alex Schueth** 1:45: **7A.2:** Multi-Doppler Analyses Detailing the Evolution of the 20 May 2019 Mangum, OK Supercell Observed During TORUS **Daniel M. Stechman** 2:00: **7A.3:** The Kinematic Character of Supercell Forward Flank Outflows from the TORUS Project **Christopher C. Weiss** 2:15: **7A.4:** A Triple-Doppler Analysis of the 17 May 2019 McCook / Farnam, NE Tornadic Supercell **Martin Satrio** 2:30: **7A.5:** Determining the Vertical Sense of Evolution of Rotation during Tornadogenesis Using Rapid-Scan, Polarimetric Radar Data **Jana B. Houser, PhD** 2:45: **7A.6:** The BEST Project (Boundary-layer Evolution and Structure of Tornadoes) Kinematic and Thermodynamic Observations of Tornadoes **Joshua Wurman**	**Signal/Data Processing Techniques for Radar I: Spectral Processing Algorithms** 1:30: **7B.1:** Doppler Spectrum Reconstruction for Precipitation with Gaussian Process Models **Tworit Dash** 1:45: **7B.2:** Differential Phase on Transmission **Dusan S. Zrnic** 2:00: **7B.3:** A Signal Processing Technique to Mitigate Wind Turbine Clutter on the NEXRAD Network **Sebastian M. Torres** 2:15: **7B.4:** Regression Filtering to Improve Radar Signal Statistics: Application to NEXRAD SZ Phase Coded Data **John C. Hubbert** 2:30: **7B.5:** Identification and Mitigation of Wind Turbine Clutter using Spectral CMD **Michael J. Dixon** 2:45: **7B.6:** Designing and Evaluating Pulse Compression Waveform for Meteopress Solid-State Radars **Jan Hrach**	1:30
3:00	**PM Coffee Break/Formal Poster Viewing (Boundary Waters)**		3:00
4:30	**Quantitative Precipitation Estimation and Hydrology I: Winter Weather Applications** 4:30: **8A.1:** A Synthesis of Polarimetric and Dual-Frequency Radar Observations of Winter Storms for Estimating Ice Water Content **Mariko Oue** 4:45: **8A.2:** Vertical Reflectivity Correction for Winter Precipitation in Mountainous Region **Lin Tang** 5:00: **8A.3:** Optimized Polarimetric Radar Relations for Snow Estimation **Peter Bukovcic** 5:15: **8A.4:** Performance of Operational Snow Liquid Water Estimation for the Canadian S-Band Radar Network. **Sudesh Boodoo**	**Signal/Data Processing Techniques for Radar II: High-Performance Computing for Simulations/Algorithms** 4:30: **8B.1:** RadarHub: A Real-time Algorithm Testbed **Boon Leng Cheong** 4:45: **8B.2:** Beyond the Blur: Variational Techniques for Radar Gridding and 3D Wind Retrieval **Jordan Brook** 5:00: **8B.3:** Three-Dimensional Variational Multi-Doppler Wind Retrieval over Complex Terrain **Ting-Yu Cha** 5:15: **8B.4: S**peeding Up Time Series Simulations: Looping Through Signal Parameters **Christopher Curtis**	4:30
5:30	**Sessions End for the Day**		5:30
6:30	**Dr. Dick Doviak Memorial Symposium (Great Lakes BC)**		6:30

Wednesday, 30 August 2023			
	Great Lakes BC	Great Lakes A	
8:00	**Winter Storms: Microphysics and Dynamics** 8:00: **9A.1:** Manifestation of Elevated Convection in Wintertime Extratropical Cyclones During IMPACTS **Kaylee Heimes** 8:15: **9A.2:** Vertical Motions in Orographic Cloud Systems Retrieved from W-Band Radar over the Idaho Mountains during SNOWIE: Controls on Supercooled Liquid Water Content and Cloud Droplet Number Concentrations **Troy Justin Zaremba** 8:30: **9A.3:** Quantifying Ice and Snow Particle Terminal Velocities, Backscatter Cross-Sections and Snowfall Rates Using Aircraft and Ground-Based Doppler Radar and In-Situ Aircraft Measurements from IMPACTS **Andrew J. Heymsfield** 8:45: **9A.4:** Understanding the Vertical Slope and Maintenance Mechanisms of Mesoscale Snow Bands **Charles N. Helms** 9:00: **9A.5:** Wintertime Elevated Convection During the IMPACTS Field Campaign **Gerald Heymsfield** 9:15: **9A.6:** Variability of Mesoscale Cloud and Precipitation Structures during Near-Freezing Surface Conditions Using Ground-Based Radar Observations from WINTRE-MIX **Katja Friedrich** 9:30: **9A.7:** The Role of the Kelvin-Helmholtz Wave on the Precipitation Microphysics during ICE-POP 2018 **Kwonil Kim** 9:45**: 9A.8:** Unveiling Cloud-Top Generating Cells Properties Through Cloud Radar Simulators **Sisi Chen**	**Emerging Technology III: Phased Array Systems and Data** 8:00: **9B.1:** An Update of the Phased Array Research Program at the National Severe Storms Laboratory **Anthony E. Reinhart** 8:15: **9B.2:** Spring 2023 Data Collection with the NSSL Advanced Technology Demonstrator (ATD) Phased Array Radar **Terry J. Schuur** 8:30: **9B.3:** Analysis of Precipitation Systems By Using MP-PAWR **Nobuhiro Takahashi** 8:45: **9B.4:** Horus - A Fully Digital Polarimetric Phased Array Radar for Next-Generation Weather Observations **Robert Dean Palmer** 9:00: **9B.5:** Novel Radar Observations By Exploiting Phased Array Radar: The Development of the Mobile C-Band Polarimetric Atmospheric Imaging Radar (PAIR) **Tian-You Yu** 9:15: **9B.6:** Verification and Evaluation of Wind Field Accuracy of Shanghai X-Band Phased Array Weather Radar Network **Haojun Chen** 9:30: **9B.7:** Examining the Improved Volumetric Update Rates Afforded by Dual-Polarization Phased Array Radar **A. Addison Alford** 9:45: **9B.8:** LOTOS (Lower Troposphere Observing System): A Community Suite of Profiling Radars, Lidars, and Other Sensors for Atmospheric Research **William O.J. Brown**	8:00
10:00	**Coffee Break (Boundary Waters)**		10:00
10:30	**Polarimetric Radar Studies of Atmospheric Electricity and Lightning** 10:30: **10A.1:** Leveraging the Multiplatform Precipitation Feature Database of Combined Ground Radar and Satellite Lightning Observations for Convective Studies **Sarah M. Stough** 10:45: **10A.2:** Detection of Electrification with Dual-Polarimetric Radar Signatures **Wiebke Deierling** 11:00: **10A.3:** Signatures of Vertical Ice Particles Orientation before IC Lightning Flash Initiation Observed by X-Band Dual Polarized Phased Array Weather Radar **Shuo Wang** 11:15: **10A.4:** Spectral Polarimetry Analysis for Detection and Tracking of Ice Alignment Signatures in Thunderstorms **Min-Duan Tzeng** 11:30: **10A.5:** Temporal Evolution of Lightning-Microphysics Relationship in Southeastern US Thunderstorms: Insights from StickNet, LMA, and WSR-88D Data **Kelcy Brunner** 11:45: **10A.6:** Electrification Signatures Observed during the Lake Effect Electrification Project **Vanna C. Chmielewski**	**Radar in Operational Meteorology I: Network Monitoring, Upgrades, and Design** 10:30: **10B.1:** Impact of WSR-88D Intra-volume Low-level Scans on Tornado Warning Performance Parsed by Storm Type **John Y. Cho** 10:45: **10B.2:** NEXRAD Radar Product Improvement – Update 2023 **Michael J. Istok** 11:00: **10B.3:** Data Quality Anomalies and Phenomena on the WSR-88D **Amy E. Daniel** 11:15: **10B.4:** Real-time Monitoring and Calibration of Weather Radar Network using Multiple Techniques **Valentin Louf** 11:30: **10B.5:** Effective Visualization of Radar Data for Users Impacted by Color Vision Deficiency **Zachary Sherman** 11:45: **10B.6:** A Supplemental High-Resolution Radar Network within the Conterminous United States **Micheal Simpson, PhD**	10:30
12:00	**Lunch Break**		12:00
1:30	**Severe Storms and Mesoscale Meteorology III: Polarimetric Radar Signatures of Supercells and Tornadoes** 1:30: **11A.1:** Reconciling Updraft Size vs. Mesocyclone Size Arguments in Tornado Formation and Intensity Prediction **Michael M. French** 1:45: **11A.2:** Development of a Dual-Polarization Radar Emulator to Compare Weakly and Strongly Tornadic Supercells from Ensembles of High-Resolution Numerical Simulations **Rachael Cross** 2:00: **11A.3:** Increasing our Understanding of Lofted and Surface Debris Fields Associated with Tornadoes using Mobile Polarimetric Radars **Roger M. Wakimoto** 2:15: **11A.4:** Linking ZDR Hotspots to Storm Cell Tracking **Vinzent Klaus** 2:30: **11A.5:** On the Formation and Evolution of Rare, Anticyclonic Tornadoes/Strong Vortices in a Supercell Near Selden, Kansas on 24 May 2021: Analysis of Data from a Rapid-Scan, Polarimetric, X-Band, Doppler Radar **Howard B. Bluestein** 2:45: **11A.6:** An Overview of Purdue's Mobile Disdrometer Operations in PERiLS 2023 **Daniel T. Dawson II**	**Microphysical Studies with Radar III: Multi-Wavelength Observations and Innovative Techniques** 1:30: **11B.1:** Observing the Vertical Distribution of the Hydrometeor Mix with Ground-Based Scanning Polarimetric Cloud Radar **Majid Hajipour** 1:45: **11B.2:** Advantages of G-Band Radar in Multi-Frequency, Liquid Phase Microphysical Retrievals **Benjamin Courtier** 2:00: **11B.3:** Tracking a Warm Rain Cell and Retrieving the Lower Order Moments and DSD: A Case Study Using 2 X-Band Polarimetric Radars **Merhala Thurai** 2:15: **11B.4:** Development of a New Balloon-Borne Particle Imaging Radiosonde and First Flight into a Convective Cloud **Kenji Suzuki** 2:30: **11B.5:** Development of Dual-Polarization Radar Algorithm for Melting Layer Detection and Signatures in Northern Taiwan **Jui Le Loh** 2:45: **11B.6:** Retrieving Raindrop Size Distribution Parameters and Vertical Air Motion from Micro Rain Radar Observations **Christopher R. Williams**	1:30
3:00	**Sessions End for the Day**		3:00

Thursday, 31 August 2023			
	Great Lakes BC	Great Lakes A	
8:00	**Use of Radar Data for Numerical Weather Prediction and Analysis I: Polarimetric Radar Data Assimilation and Microphysical Processes** 8:00: **12A.1:** Polarimetric Radar Observations Meet Atmospheric Modelling (PROM) - A Research Initiative in Germany **Silke Troemel** 8:15: **12A.2:** A Novel Approach to Assimilate ZDR Observations with an Ensemble Kalman Filter Data Assimilation System **Bing-Xue Zhuang** 8:30: **12A.3:** Improvement of Forward Operators for Polarimetric Radar Data Simulation and Assimilation with Double Moment Microphysics Schemes **Peng Liu** 8:45: **12A.4:** Comparing Dynamics and Microphysics of Modeled and Observed Convective Events Using a Polarimetric Forward Operator **Raquel Evaristo** 9:00: **12A.5:** Joint 4D Data Assimilation of the Networks of Weather Radars and Ground-Based Profiling Platforms for Forecasting Convective Storms **Yubao Liu** 9:15: **12A.6:** Impacts of Hail on Simulated ZDR Arc Identification **Allison LaFleur** 9:30: **12A.7:** Assimilation of Radar Kdp Observations Using an Ensemble Kalman Filter for the 31 May 2013 Oklahoma Storm Event: Investigation of DA Configuration Sensitivity and Simulated Microphysical States **Marcus R. Johnson** 9:45: **12A.8:** A Comparative Analysis of a 10-Year Statistic of Polarimetric X-Band Radar Data and Ice-Microphysical Retrievals with ICON Simulations **Tobias Scharbach**	**Airborne and Spaceborne Radars III: Spaceborne Radar Observations and Emerging Platforms** 8:00: **12B.1:** Quantitative Analysis of the Delta-t Approach for Estimating Convective Mass Flux Using Ground Radar Observations **Brenda Dolan** 8:15: **12B.2:** GPM KaPR Deep Convection Observations: Insight for Future Spaceborne Radar Missions **Randy Chase** 8:30: **12B.3:** CloudCube: A Compact, Low-Cost Radar for Vertical Profiling of Clouds and Precipitation **Raquel Rodriguez Monje** 8:45: **12B.4:** Application of NASA Multi-Frequency Airborne Doppler Radar for Estimates of Hydrometeor Microphysical Properties **Liang Liao** 9:00: **12B.5:** Next Generation Spaceborne Doppler Radars for Cloud and Precipitation Studies: Lessons Learned during the NASA AOS Mission Architecture Study **Pavlos Kollias** 9:15: **12B.6:** WIVERN: A Mission to Observe Global in-cloud Winds, Clouds and Precipitation as part of the ESA Earth Explorer Programme EE11 **Anthony J. Illingworth** 9:30: **12B.7:** Commercial Weather Radar from Space: The Tomorrow.Io Pathfinder Mission and Ka-Band Radar Satellite Constellation **Richard Roy** 9:45: **12B.8:** Prototype Precipitation Profiling Algorithms for the Tomorrow-R1 and Tomorrow-R2 Radars **Ethan Nelson**	8:00
10:00	**Coffee Break (Boundary Waters)**		10:00
10:30	**Radar in Operational Meteorology II: Algorithms** 10:30: **13A.1:** TOFU: A Novel Doppler Unfolding Technique Using Optical Flow **Alain Protat** 10:45: **13A.2: Assessing Rainfall Risk and the Impact of Extreme Precipitation Events in Germany Based on a Catalogue of Radar-based Heavy Rainfall Events (CatRaRE) Katharina Lengfeld** 11:00: **13A.3:** Nowcasting Thunderstorm Hazards over Lake Victoria **Rita D. Roberts** 11:15: **13A.4:** Identifying Updrafts with ZDR Hotspots **John M Krause** 11:30: **13A.5:** Stormy Subtropics and Stratiform South: A Radar-Based Classification of Australian Rainfall Events **Annabel Jayne Bowden** 11:45: **13A.6:** Automated Detection of Boundary Layer Depth Dual-Polarization Radar Observations **Christina Lyn Comer**	**Artificial Intelligence in Radar Meteorology I: Nowcasting, Convection, and Quality Control** 10:30: **13B.1:** Inpainting Gaps and Blocked Areas in Weather Radar Networks with Deep Learning **Matej Murín** 10:45: **13B.2:** The Development of a Single-Radar Tornado Prediction Algorithm Using Machine Learning **Thea Sandmael** 11:00: **13B.3:** A Tornado Detection Algorithm using Deep Neural Networks, Full-Resolution Polarimetric Weather Radar Data, and Explainable AI **James M. Kurdzo** 11:15: **13B.4:** Improving Nowcasting of Convective Development by Incorporating Polarimetric Radar Variables into a Deep Learning Model **Xiang Pan** 11:30: **13B.5:** Physically Constrained Deep Generative Approach to Precipitation Nowcasting **Matej Choma** 11:45: **13B.6:** Development of a Deep Full-Scale Connected U-Net for Reflectivity Inpainting in Spaceborne Radar Blind Zones **Fraser King**	10:30
12:00	**Lunch Break**		12:00
1:30	**Severe Storms and Mesoscale Meteorology IV: Radar Observations of Hailstorms, Microbursts, and Tropical Cyclones** 1:30: **14A.1:** Rapid-Scan, Polarimetric Radar Observations and Ground Validation of a Hail-Producing Supercell in Colorado **Laura Shedd** 1:45: **14A.2:** Advancements in Radar-Derived Hail Products for Estimating Hail Damage **Nick Guy** 2:00: **14A.3:** Analysis of Doppler Velocity in Three-Body Scattering Signatures for use in Hail Size Estimation **Anna VanAlstine** 2:15: **14A.4:** Using Images of Naturally Falling Hailstones Observed with High-Speed, High-Resolution Stereographic Cameras to Re-Examine Radar-Hail Relations **Jeffrey C. Snyder** 2:30: **14A.5:** Fine-Scale Hurricane Boundary Layer Structures **Karen A. Kosiba** 2:45: **14A.6:** Analyzing Downburst Precursors Using Automated Storm Identification and Polarimetric Radar Data **Maci Nicole Gibson**	**Artificial Intelligence in Radar Meteorology II: Precipitation Estimation Techniques** 1:30: **14B.1:** A Composite Method of Rainfall Rates for a Multi-Parameter Phased Array Weather Radar and XRAIN using Machine Learning **Shota Ochi** 1:45: **14B.2:** DEUCE: A Neural Network for Probabilistic Precipitation Nowcasting with Aleatoric and Epistemic Uncertainties **Bent Ivan Oliver Harnist** 2:00: **14B.3:** Interpretable Deep Learning for Polarimetric Radar Rainfall Estimation **Haonan Chen** 2:15: **14B.4:** U-Net Based Retrieval of Precipitation Microphysics from Polarimetric Weather Radar Data **Junho Junho Ho** 2:30: **14B.5:** A New Deep Learning Nowcast Model of Radar Imagery using Generative Adversarial Network for Operational Rainfall Nowcasting **Ka-Hing Wong** 2:45: **14B.6:** Assimilation of Latent Heating Profiles Inferred from Machine Learning **Dominik Jacques**	1:30
3:00	**PM Coffee Break/Formal Poster Viewing (Boundary Waters)**		3:00
4:30	**Use of Radar Data for Numerical Weather Prediction and Analysis II: Innovations in Radar Data Assimilation** 4:30: **15A.1:** Assimilating Retrieved Water Vapor and Radar Data from NCAR SPol-Ka: Performance and Validation Using Real Cases **Nghi Thi Phuong Do** 4:45: **15A.2:** Improving Short-term Precipitation Forecasting with Radar Data Assimilation and a Multiscale Hybrid Ensemble-Variational Strategy **Juanzhen Sun** 5:00: **15A.3:** Impact of Assimilating Multiple-Radar-Synthesized Three-Dimensional Winds and Retrieved Thermodynamic Fields Associated with Different Microphysical Schemes on Short-Term Rainfall Forecast in Mountainous Area **Tzu Jui Chou** 5:15: **15A.4:** Impact of Assimilating Radar Refractivity with Radial Wind and Reflectivity in the Context of Ensemble Kalman Filter **Kao-Shen Chung**	**Signal/Data Processing Techniques for Radar III: Data Quality Control** 4:30: **15B.1:** Radar Tracking of Quality Python Toolkit (RadTraQ) **Adam Theisen** 4:45: **15B.2:** A Novel Technique to Correct Debris Centrifuging Bias in Doppler Velocity Measurements of Tornadoes **Morgan Schneider** 5:00: **15B.3:** Demonstration Experiment of Advanced Inter-Radar Interference Suppression Method for X Band Weather Radar Network in Japan **Tomomi Aoki** 5:15: **15B.4:** Beam Blockage Correction for Improving Radar Data Quality **Songjian Tan**	4:30
5:30	**Sessions End for the Day**		5:30

Friday, 1 September 2023			
	Great Lakes BC	Great Lakes A	
8:00	**Severe Storms and Mesoscale Meteorology V: Quasi-Linear Convective Systems** 8:00: **16A.1:** Radar-Based Characteristics of Tornadic and Nontornadic QLCS Mesovortices during PERiLS **Leanne Blind-Doskocil** 8:15: **16A.2:** Comparison of Dual Doppler Wind Retrievals with Detailed Wind Profiler Observations within High-Shear Environments during PERiLS **Kevin Knupp** 8:30: **16A.3:** DSD Characteristics and Evolution of the Leading Stratiform Region of a Tornadic QLCS during PERiLS-2022 IOP#2 (30 March 2022). **Hamid Ali Syed** 8:45: **16A.4:** A Radar-Derived Synopsis of the Rapid Tornadogenesis in the 01 April 2023 Hazel Green, Alabama EF-3 Tornado **Joshua L Huggins** 9:00: **16A.5:** An Investigation Between Tornadic and Non-Tornadic QLCS Vortices using Blended MRMS Products **Tyler James Pardun** 9:15: **16A.6**: Examining Thousands of Tornadic and Nontornadic MCS Cells Using Gridrad-Severe **Amanda M. Murphy** 9:30: **16A.7:** Dual-Polarization Radar Signatures Associated with QLCS Mesovortices **Charles M. Kuster** 9:45: **16A.8:** Developing a Climatology of Rotating Storms Using the MYRORSS Dataset **Branden Katona**	**Quantitative Precipitation Estimation and Hydrology II: Multi-Platform QPE Applications and Improvements** 8:00 **16B.1:** Analysis of Radar QPE for the 2021 Regional Flooding Events in Germany, Belgium, Luxembourg, and the Netherlands **Edouard Goudenhoofdt** 8:15: **16B.2:** FLASH: From Radar Observations to Operational Flash Flood Forecasting **Jonathan J. Gourley** 8:30: **16B.3:** Seasonal Variability within Quantitative Precipitation Estimates for the Surface Atmosphere Integrated Field Laboratory (SAIL) Field Experiment **Joseph Robert O'Brien** 8:45: **16B.4:** A Localized Quantitative Precipitation Estimation for S-Band Polarimetric Radar in Taiwan **Yu-Shuang Tang** 9:00: **16B.5:** Guiding the Improvement of the Global Precipitation Measurement Mission (GPM) with Radar Networks over France and USA Mountainous Regions **Yagmur Derin** 9:15: **16B.6:** Assessment of Vertical Profile Correction for Quantitative Precipitation Estimation using S-band Radar in Northern Taiwan **Wei-Yu Chang** 9:30: **16B.7:** Revisiting Polarimetric Signatures of Hail and Rainfall Estimation in the Presence of Hail **Alexander V. Ryzhkov** 9:45: **16B.8:** Optimization of the Differential Phase Processing at Different Wavelengths **Jiaxi Hu**	8:00
10:00	**Coffee Break (Great Lakes Promenade)**		
10:30	**QPE and Hydrology** Quantitative Precipitation Estimation with Weather Radar: Discussion and Outlook (Invited Presentation) **Pierre Kirstetter**		10:30
11:00	**Emerging Technology and Phased Arrays** Airborne Phased Array Radar (APAR): The Next Generation of Airborne Polarimetric Doppler Weather Radar **Everette David Joseph**		11:00
11:30	**Awards Ceremony**		11:30
11:45	**Closing Remarks**		11:45
12:00	**Conference Adjourns**		12:00

Paper #	Day	Time	
A			
Alford, A. A.	42	Mon 3:00 PM	Boundary Waters
Alford, A. A.	9B.7	Wed 9:30 AM	Great Lakes A
Aoki, T.	15B.3	Thu 5:00 PM	Great Lakes A
Augusto Morales Rodriguez, C.	150	Thu 3:00 PM	Boundary Waters
B			
Bang, W.	128	Thu 3:00 PM	Boundary Waters
Bartel, J.	75	Tue 3:00 PM	Boundary Waters
Bartel, J.	123	Tue 3:00 PM	Boundary Waters
Battaglia, A.	2A.3	Mon 11:00 AM	Great Lakes BC
Beard, L. M.	178	Thu 3:00 PM	Boundary Waters
Bell, M. M.	37	Mon 3:00 PM	Boundary Waters
Bell, M. M.	73	Tue 3:00 PM	Boundary Waters
Beninati, S.	2A.2	Mon 10:45 AM	Great Lakes BC
Bergmann, T.	148	Thu 3:00 PM	Boundary Waters
Billault-Roux, A. C.	14	Mon 3:00 PM	Boundary Waters
Billault-Roux, A. C.	18	Mon 3:00 PM	Boundary Waters
Blind-Doskocil, L.	16A.1	Fri 8:00 AM	Great Lakes BC
Bluestein, H. B.	11A.5	Wed 2:30 PM	Great Lakes BC
Bluestein, H. B.	173	Thu 3:00 PM	Boundary Waters
Bodine, D. J.	4A.1	Mon 4:30 PM	Great Lakes BC
Bodine, D. J.	85	Tue 3:00 PM	Boundary Waters
Bodine, D. J.	86	Tue 3:00 PM	Boundary Waters
Boettcher, J. B.	2A.6	Mon 11:45 AM	Great Lakes BC
Boodoo, S.	8A.4	Tue 5:15 PM	Great Lakes BC
Bowden, A. J.	13A.5	Thu 11:30 AM	Great Lakes BC
Brook, J.	8B.2	Tue 4:45 PM	Great Lakes A
Brown, W. O. J.	9B.8	Wed 9:45 AM	Great Lakes A
Brunner, K.	10A.5	Wed 11:30 AM	Great Lakes BC
Bruss, J.	117	Tue 3:00 PM	Boundary Waters
Bukovcic, P.	8A.3	Tue 5:00 PM	Great Lakes BC
Bukovcic, P.	116	Tue 3:00 PM	Boundary Waters
C			
Calvetti, L.	V1	Wed 9:00 AM	
Carey, L. D.	44	Mon 3:00 PM	Boundary Waters
Carlin, J.	3B.4	Mon 2:15 PM	Great Lakes A
Cha, T. Y.	8B.3	Tue 5:00 PM	Great Lakes A
Cha, T. Y.	100	Tue 3:00 PM	Boundary Waters
Chandrasekar, V.	2	Mon 3:00 PM	Boundary Waters
Chandrasekar, V.	34	Mon 3:00 PM	Boundary Waters
Chang, W. Y.	V18	Wed 9:00 AM	
Chang, W. Y.	20	Mon 3:00 PM	Boundary Waters
Chang, W. Y.	180	Thu 3:00 PM	Boundary Waters
Chase, R.	12B.2	Thu 8:15 AM	Great Lakes A
Chen, C.	98	Tue 3:00 PM	Boundary Waters
Chen, H.	9B.6	Wed 9:15 AM	Great Lakes A
Chen, H.	11	Mon 3:00 PM	Boundary Waters
Chen, H.	14B.3	Thu 2:00 PM	Great Lakes A
Chen, S.	130	Thu 3:00 PM	Boundary Waters
Chen, S.	9A.8	Wed 9:45 AM	Great Lakes BC
Chen, Z.	142	Thu 3:00 PM	Boundary Waters
Cheong, B. L.	8B.1	Tue 4:30 PM	Great Lakes A
Chmielewski, V. C.	10A.6	Wed 11:45 AM	Great Lakes BC
Cho, I. H.	167	Thu 3:00 PM	Boundary Waters
Cho, J. Y.	10B.1	Wed 10:30 AM	Great Lakes A
CHOI, H.	22	Mon 3:00 PM	Boundary Waters
Choi, J.	124	Thu 3:00 PM	Boundary Waters
Choma, M.	13B.5	Thu 11:30 AM	Great Lakes A
Chou, T. J.	15A.3	Thu 5:00 PM	Great Lakes BC
Chung, K. S.	15A.4	Thu 5:15 PM	Great Lakes BC
Clark, T. J.	66	Tue 3:00 PM	Boundary Waters
Cohen, B. K.	3A.4	Mon 2:15 PM	Great Lakes BC
Cohen, B. K.	72	Tue 3:00 PM	Boundary Waters
Comer, C. L.	13A.6	Thu 11:45 AM	Great Lakes BC
Cornejo, I. C.	47	Mon 3:00 PM	Boundary Waters
Courtier, B.	11B.2	Wed 1:45 PM	Great Lakes A
Cross, R.	11A.2	Wed 1:45 PM	Great Lakes BC
Curtis, C.	8B.4	Tue 5:15 PM	Great Lakes A
Curtis, M.	140	Thu 3:00 PM	Boundary Waters
Curtis, W.	45	Mon 3:00 PM	Boundary Waters
D			
Dai, J.	67	Tue 3:00 PM	Boundary Waters
Daniel, A. E.	10B.3	Wed 11:00 AM	Great Lakes A
Dash, T.	7B.1	Tue 1:30 PM	Great Lakes A
Dawson, D. T. II	11A.6	Wed 2:45 PM	Great Lakes BC
DeHart, J. C.	5.2	Tue 8:30 AM	Great Lakes BC
DeHart, J. C.	79	Tue 3:00 PM	Boundary Waters
Deierling, W.	10A.2	Wed 10:45 AM	Great Lakes BC
Derin, Y.	16B.5	Fri 9:00 AM	Great Lakes A
DesRosiers, A. J.	126	Thu 3:00 PM	Boundary Waters
Detwiler, A.	38	Mon 3:00 PM	Boundary Waters
DeVinny, S.	59	Mon 3:00 PM	Boundary Waters
D (Continued)			
Dixon, A.	21	Mon 3:00 PM	Boundary Waters
Dixon, M. J.	7B.5	Tue 2:30 PM	Great Lakes A
Do, N. T. P.	15A.1	Thu 4:30 PM	Great Lakes BC
Dolan, B.	58	Mon 3:00 PM	Boundary Waters
Dolan, B.	12B.1	Thu 8:00 AM	Great Lakes A
Dunnavan, E. L. III	2B.1	Mon 10:30 AM	Great Lakes A
E			
Ellis, S. M.	149	Thu 3:00 PM	Boundary Waters
Emmerson, S.	2A.1	Mon 10:30 AM	Great Lakes BC
Emmerson, S.	74	Tue 3:00 PM	Boundary Waters
Evaristo, R.	12A.4	Thu 8:45 AM	Great Lakes BC
F			
Fabry, F.	133	Thu 3:00 PM	Boundary Waters
Fabry, F.	169	Thu 3:00 PM	Boundary Waters
Feng, Y. C.	6B.5	Tue 11:30 AM	Great Lakes A
Feng, Y. C.	153	Thu 3:00 PM	Boundary Waters
Ferrone, A.	2B.3	Mon 11:00 AM	Great Lakes A
Ferrone, A.	144	Thu 3:00 PM	Boundary Waters
French, M. M.	11A.1	Wed 1:30 PM	Great Lakes BC
Friedrich, K.	9A.6	Wed 9:15 AM	Great Lakes BC
Friedrich, K.	175	Thu 3:00 PM	Boundary Waters
Fusselman, J.	6A.3	Tue 11:00 AM	Great Lakes BC
G			
Galfione, A.	V11	Wed 9:00 AM	
Ganson, S. M.	164	Thu 3:00 PM	Boundary Waters
Gatlin, P. N.	4B.1	Mon 4:30 PM	Great Lakes A
Gergely, M.	V2	Wed 9:00 AM	
Gergely, M.	V3	Wed 9:00 AM	
Ghiggi, G.	17	Mon 3:00 PM	Boundary Waters
Ghiggi, G.	77	Tue 3:00 PM	Boundary Waters
Gibson, M. N.	14A.6	Thu 2:45 PM	Great Lakes BC
Giles, J. A.	151	Thu 3:00 PM	Boundary Waters
Glanton, G.	171	Thu 3:00 PM	Boundary Waters
Goudenhoofdt, E.	16B.1	Fri 8:00 AM	Great Lakes A
Gourley, J. J.	57	Mon 3:00 PM	Boundary Waters
Gourley, J. J.	16B.2	Fri 8:15 AM	Great Lakes A
Grasmick, C.	7	Mon 3:00 PM	Boundary Waters
Grover, M. A.	4A.2	Mon 4:45 PM	Great Lakes BC
Gu, J. Y.	84	Tue 3:00 PM	Boundary Waters
Gugerli, R.	55	Mon 3:00 PM	Boundary Waters
Gugerli, R.	131	Thu 3:00 PM	Boundary Waters
Guimond, S. R.	6A.6	Tue 11:45 AM	Great Lakes BC
Guy, N.	14A.2	Thu 1:45 PM	Great Lakes BC
H			
Hagihara, Y.	6	Mon 3:00 PM	Boundary Waters
Hajipour, M.	11B.1	Wed 1:30 PM	Great Lakes A
Han, M.	183	Thu 3:00 PM	Boundary Waters
Harnist, B. I. O.	14B.2	Thu 1:45 PM	Great Lakes A
Heimes, K.	9A.1	Wed 8:00 AM	Great Lakes BC
Helms, C. N.	9A.4	Wed 8:45 AM	Great Lakes BC
Hernandez, I. A.	3B.2	Mon 1:45 PM	Great Lakes A
Heymsfield, A. J.	9A.3	Wed 8:30 AM	Great Lakes BC
Heymsfield, G.	9A.5	Wed 9:00 AM	Great Lakes BC
Hirose, M.	V8	Wed 9:00 AM	
Ho, J. J.	14B.4	Thu 2:15 PM	Great Lakes A
Homeyer, C. R.	89	Tue 3:00 PM	Boundary Waters
Honda, T.	V14	Wed 9:00 AM	
Hopper, L. J. Jr.	154	Thu 3:00 PM	Boundary Waters
Houser, J. B.	7A.5	Tue 2:30 PM	Great Lakes BC
Hrach, J.	7B.6	Tue 2:45 PM	Great Lakes A
Hu, J.	16B.8	Fri 9:45 AM	Great Lakes A
Huang, H.	29	Mon 3:00 PM	Boundary Waters
Hubbert, J. C.	7B.4	Tue 2:15 PM	Great Lakes A
Huffer, C. D.	78	Tue 3:00 PM	Boundary Waters
Huggins, J. L.	16A.4	Fri 8:45 AM	Great Lakes BC
Hung, C. Y.	147	Thu 3:00 PM	Boundary Waters
I			
Illingworth, A. J.	12B.6	Thu 9:15 AM	Great Lakes A
Intaracharoen, P.	32	Mon 3:00 PM	Boundary Waters
Isom, B. M.	10	Mon 3:00 PM	Boundary Waters
Istok, M. J.	10B.2	Wed 10:45 AM	Great Lakes A
Ivic, I. R.	2A.5	Mon 11:30 AM	Great Lakes BC

Presenter Index

	Paper #	Day	Time	
J				
Jackson, R. C.	3B.3	Mon	2:00 PM	Great Lakes A
Jacques, D.	14B.6	Thu	2:45 PM	Great Lakes A
Jacques, D.	168	Thu	3:00 PM	Boundary Waters
Jatau, P.	129	Thu	3:00 PM	Boundary Waters
Javornik, B.	135	Thu	3:00 PM	Boundary Waters
Jensen, T. L.	166	Thu	3:00 PM	Boundary Waters
Johnson, M. R.	12A.7	Thu	9:30 AM	Great Lakes BC
Jou, J. D.	V17	Wed	9:00 AM	
K				
Katona, B.	16A.8	Fri	9:45 AM	Great Lakes BC
Ke, C. Y.	157	Thu	3:00 PM	Boundary Waters
Kim, E.	134	Thu	3:00 PM	Boundary Waters
Kim, H. L.	40	Mon	3:00 PM	Boundary Waters
Kim, K.	9A.7	Wed	9:30 AM	Great Lakes BC
Kim, Y.	2A.4	Mon	11:15 AM	Great Lakes BC
Kim, Y.	83	Tue	3:00 PM	Boundary Waters
King, F.	13B.6	Thu	11:45 AM	Great Lakes A
Kirstetter, P.	17.1	Fri	10:30 AM	Great Lakes BC
Kitahara, D.	V15	Wed	9:00 AM	
Kitahara, D.	V16	Wed	9:00 AM	
Klaus, V.	11A.4	Wed	2:15 PM	Great Lakes BC
Klotz, B.	6A.1	Tue	10:30 AM	Great Lakes BC
Knupp, K.	16A.2	Fri	8:15 AM	Great Lakes BC
Kollias, P.	12B.5	Thu	9:00 AM	Great Lakes A
Kosiba, K. A.	93	Tue	3:00 PM	Boundary Waters
Kosiba, K. A.	94	Tue	3:00 PM	Boundary Waters
Kosiba, K. A.	14A.5	Thu	2:30 PM	Great Lakes BC
Krause, J.	111	Tue	3:00 PM	Boundary Waters
Krause, J. M.	13A.4	Thu	11:15 AM	Great Lakes BC
Kuo, K. S.	33	Mon	3:00 PM	Boundary Waters
Kurdzo, J. M.	48	Mon	3:00 PM	Boundary Waters
Kurdzo, J. M.	13B.3	Thu	11:00 AM	Great Lakes A
Kurdzo, J. M.	139	Thu	3:00 PM	Boundary Waters
Kuster, C. M.	16A.7	Fri	9:30 AM	Great Lakes BC
Kwon, S.	15	Mon	3:00 PM	Boundary Waters
L				
Lackner, C.	177	Thu	3:00 PM	Boundary Waters
Ladino, A.	4B.3	Mon	5:00 PM	Great Lakes A
LaFleur, A.	12A.6	Thu	9:15 AM	Great Lakes BC
Lamer, K.	127	Thu	3:00 PM	Boundary Waters
Lan, C. H.	24	Mon	3:00 PM	Boundary Waters
Lee, C. L.	28	Mon	3:00 PM	Boundary Waters
Lee, G.	35	Mon	3:00 PM	Boundary Waters
Lee, J. E.	95	Tue	3:00 PM	Boundary Waters
Lee, J. W.	160	Thu	3:00 PM	Boundary Waters
Lee, W. C.	6A.5	Tue	11:30 AM	Great Lakes BC
Leifer, M.	3A.2	Mon	1:45 PM	Great Lakes BC
Lengfeld, K.	13A.2	Thu	10:45 AM	Great Lakes BC
Li, A.	23	Mon	3:00 PM	Boundary Waters
Li, H. K.	6B.3	Tue	11:00 AM	Great Lakes A
Li, L.	3	Mon	3:00 PM	Boundary Waters
Liang, X.	159	Thu	3:00 PM	Boundary Waters
Liao, L.	12B.4	Thu	8:45 AM	Great Lakes A
Liernur, A.	56	Mon	3:00 PM	Boundary Waters
Liou, Y. C.	156	Thu	3:00 PM	Boundary Waters
Liu, C.	16	Mon	3:00 PM	Boundary Waters
Liu, P.	12A.3	Thu	8:30 AM	Great Lakes BC
Liu, Y.	12A.5	Thu	9:00 AM	Great Lakes BC
Lo, C. H. B.	3B.6	Mon	2:45 PM	Great Lakes A
Lo, C. H. B.	90	Tue	3:00 PM	Boundary Waters
Loeffler, S.	25	Mon	3:00 PM	Boundary Waters
Loeffler, S.	96	Tue	3:00 PM	Boundary Waters
LOH, J. L.	109	Tue	3:00 PM	Boundary Waters
LOH, J. L.	11B.5	Wed	2:30 PM	Great Lakes A
Louf, V.	10B.4	Wed	11:15 AM	Great Lakes A
Luke, E.	3A.5	Mon	2:30 PM	Great Lakes BC
Lyza, A.	106	Tue	3:00 PM	Boundary Waters
M				
Maesaka, T.	63	Tue	3:00 PM	Boundary Waters
Maherndl, N.	2B.2	Mon	10:45 AM	Great Lakes A
Majewski, A.	6A.4	Tue	11:15 AM	Great Lakes BC
M (Continued)				
Marbouti, M.	137	Thu	3:00 PM	Boundary Waters
Matthews, A.	120	Tue	3:00 PM	Boundary Waters
May, P. T.	16B.6A	Fri	9:15 AM	Great Lakes A
May, P. T.	82	Tue	3:00 PM	Boundary Waters
McMurdie, L. A.	5.1	Tue	8:00 AM	Great Lakes BC
Medina, B. L.	41	Mon	3:00 PM	Boundary Waters
Melnikov, V. M.	3B.5	Mon	2:30 PM	Great Lakes A
Melnikov, V. M.	138	Thu	3:00 PM	Boundary Waters
Mendrok, J.	165	Thu	3:00 PM	Boundary Waters
Metcalf, J. I.	12	Mon	3:00 PM	Boundary Waters
Michelson, D.	1.2	Mon	9:00 AM	Great Lakes BC
Michelson, D.	145	Thu	3:00 PM	Boundary Waters
Miller, E. M.	158	Thu	3:00 PM	Boundary Waters
Mirkovic, D.	64	Tue	3:00 PM	Boundary Waters
Moureaux, M.	114	Tue	3:00 PM	Boundary Waters
Mroz, K.	4B.2	Mon	4:45 PM	Great Lakes A
Murín, M.	13B.1	Thu	10:30 AM	Great Lakes A
Murphy, A. M.	16A.6	Fri	9:15 AM	Great Lakes BC
N				
Nai, F.	3A.3	Mon	2:00 PM	Great Lakes BC
Najman, M.	76	Tue	3:00 PM	Boundary Waters
Navarrete Urrego, J. A.	V10	Wed	9:00 AM	
Nelson, E.	12B.8	Thu	9:45 AM	Great Lakes A
Nesbitt, S. W.	6B.6	Tue	11:45 AM	Great Lakes A
Nguyen, C.	9	Mon	3:00 PM	Boundary Waters
O				
O'Brien, J. R.	16B.3	Fri	8:30 AM	Great Lakes A
Ochi, S.	14B.1	Thu	1:30 PM	Great Lakes A
Oh, Y. A.	119	Tue	3:00 PM	Boundary Waters
Oude Nijhuis, A. C. P.	110	Tue	3:00 PM	Boundary Waters
Oue, M.	V12	Wed	9:00 AM	
Oue, M.	8A.1	Tue	4:30 PM	Great Lakes BC
P				
Pabla, C. S.	49	Mon	3:00 PM	Boundary Waters
Padmanabhan, T.	V5	Wed	9:00 AM	
Padmanabhan, T.	V6	Wed	9:00 AM	
Palmer, R. D.	9B.4	Wed	8:45 AM	Great Lakes A
Pan, X.	13B.4	Thu	11:15 AM	Great Lakes A
Pardun, T. J.	16A.5	Fri	9:00 AM	Great Lakes BC
Peters, M.	182	Thu	3:00 PM	Boundary Waters
Posselt, D. J.	2B.6	Mon	11:45 AM	Great Lakes A
Posselt, D. J.	8	Mon	3:00 PM	Boundary Waters
Protat, A.	13A.1	Thu	10:30 AM	Great Lakes BC
R				
Radhakrishnan, C.	152	Thu	3:00 PM	Boundary Waters
Ramanamahefa, A. V.	V4	Wed	9:00 AM	
Ramírez, Y. M. B.	60	Mon	3:00 PM	Boundary Waters
Reinhart, A. E.	9B.1	Wed	8:00 AM	Great Lakes A
Reinke, R. J.	3A.1	Mon	1:30 PM	Great Lakes BC
Richardson, L.	112	Tue	3:00 PM	Boundary Waters
Richter, J. R.	174	Thu	3:00 PM	Boundary Waters
Rivelli-Zea, L. E.	36	Mon	3:00 PM	Boundary Waters
Roberts, R. D.	13A.3	Thu	11:00 AM	Great Lakes BC
Rodriguez Monje, R.	12B.3	Thu	8:30 AM	Great Lakes A
Romano, P. F.	179	Thu	3:00 PM	Boundary Waters
Romatschke, U.	6A.2	Tue	10:45 AM	Great Lakes BC
Rowe, A.	3B.1	Mon	1:30 PM	Great Lakes A
Roy, R.	12B.7	Thu	9:30 AM	Great Lakes A
Ryglicki, D.	132	Thu	3:00 PM	Boundary Waters
Ryzhkov, A. V.	16B.7	Fri	9:30 AM	Great Lakes A
S				
Salazar, C. M.	3A.6	Mon	2:45 PM	Great Lakes BC
Salazar, C. M.	118	Tue	3:00 PM	Boundary Waters
Salazar, J. L.	62	Tue	3:00 PM	Boundary Waters
Sandmael, T.	13B.2	Thu	10:45 AM	Great Lakes A
Santillo, J.	115	Tue	3:00 PM	Boundary Waters

	Paper #	Day	Time	
S (Continued)				
Satrio, M.	7A.4	Tue	2:15 PM	Great Lakes BC
Scharbach, T.	12A.8	Thu	9:45 AM	Great Lakes BC
Schneider, M.	102	Tue	3:00 PM	Boundary Waters
Schneider, M.	15B.2	Thu	4:45 PM	Great Lakes A
Schrom, R.	2B.5	Mon	11:30 AM	Great Lakes A
Schueth, A.	7A.1	Tue	1:30 PM	Great Lakes BC
Schuur, T. J.	9B.2	Wed	8:15 AM	Great Lakes A
Schvartzman, D.	61	Tue	3:00 PM	Boundary Waters
Shah, N. H.	162	Thu	3:00 PM	Boundary Waters
Sharma, M.	6B.2	Tue	10:45 AM	Great Lakes A
Shedd, L.	71	Tue	3:00 PM	Boundary Waters
Shedd, L.	14A.1	Thu	1:30 PM	Great Lakes BC
Sherman, Z.	10B.5	Wed	11:30 AM	Great Lakes A
Shimizu, R.	4B.4	Mon	5:15 PM	Great Lakes A
Shin, K.	26	Mon	3:00 PM	Boundary Waters
Simpson, M.	10B.6	Wed	11:45 AM	Great Lakes A
Snyder, J. C.	91	Tue	3:00 PM	Boundary Waters
Snyder, J. C.	97	Tue	3:00 PM	Boundary Waters
Snyder, J. C.	14A.4	Thu	2:15 PM	Great Lakes BC
Southward, S. J.	99	Tue	3:00 PM	Boundary Waters
Stechman, D. M.	7A.2	Tue	1:45 PM	Great Lakes BC
Stechman, D. M.	104	Tue	3:00 PM	Boundary Waters
Stein, T. H. M.	6B.4	Tue	11:15 AM	Great Lakes A
Stouffer, B.	6B.1	Tue	10:30 AM	Great Lakes A
Stough, S. M.	10A.1	Wed	10:30 AM	Great Lakes BC
Sun, J.	146	Thu	3:00 PM	Boundary Waters
Sun, J.	15A.2	Thu	4:45 PM	Great Lakes BC
Sun, K.	81	Tue	3:00 PM	Boundary Waters
Suzuki, K.	11B.4	Wed	2:15 PM	Great Lakes A
Swinney, L. M.	87	Tue	3:00 PM	Boundary Waters
Syed, H. A.	16A.3	Fri	8:30 AM	Great Lakes BC
T				
Takahashi, N.	1	Mon	3:00 PM	Boundary Waters
Takahashi, N.	9B.3	Wed	8:30 AM	Great Lakes A
Tan, S.	15B.4	Thu	5:15 PM	Great Lakes A
Tanamachi, R.	50	Mon	3:00 PM	Boundary Waters
Tanamachi, R.	4A.3	Mon	5:00 PM	Great Lakes BC
Tang, L.	8A.2	Tue	4:45 PM	Great Lakes BC
Tang, Y. S.	16B.4	Fri	8:45 AM	Great Lakes A
Tao, Z.	161	Thu	3:00 PM	Boundary Waters
Teshiba, M.	155	Thu	3:00 PM	Boundary Waters
Theisen, A.	136	Thu	3:00 PM	Boundary Waters
Theisen, A.	15B.1	Thu	4:30 PM	Great Lakes A
Thurai, M.	11B.3	Wed	2:00 PM	Great Lakes A
Tokay, A.	176	Thu	3:00 PM	Boundary Waters
Torres, S. M.	7B.3	Tue	2:00 PM	Great Lakes A
Tridon, F.	V13	Wed	9:00 AM	
Troemel, S.	12A.1	Thu	8:00 AM	Great Lakes BC
Tuftedal, K.	105	Tue	3:00 PM	Boundary Waters
Tunde, A.	30	Mon	3:00 PM	Boundary Waters
Tzeng, M. D.	10A.4	Wed	11:15 AM	Great Lakes BC
U				
Ueki, A.	113	Tue	3:00 PM	Boundary Waters
V				
Van Baelen, J.	4A.4	Mon	5:15 PM	Great Lakes BC
Van Den Heever, S. C.	1.1	Mon	8:30 AM	Great Lakes BC
VanAlstine, A.	101	Tue	3:00 PM	Boundary Waters
VanAlstine, A.	14A.3	Thu	2:00 PM	Great Lakes BC
Verdelho, F.	V7	Wed	9:00 AM	
Viteri Lopez, A. S.	125	Thu	3:00 PM	Boundary Waters
Vivekanandan, J.	65	Tue	3:00 PM	Boundary Waters
V (Continued)				
von Lerber, A.	19	Mon	3:00 PM	Boundary Waters
von Lerber, A.	143	Thu	3:00 PM	Boundary Waters
W				
Wada, T.	163	Thu	3:00 PM	Boundary Waters
Wakimoto, R. M.	11A.3	Wed	2:00 PM	Great Lakes BC
Walker McLinden, M.	4	Mon	3:00 PM	Boundary Waters
Wang, J.	170	Thu	3:00 PM	Boundary Waters
Wang, J.	51	Mon	3:00 PM	Boundary Waters
Wang, S.	10A.3	Wed	11:00 AM	Great Lakes BC
Ward, K.	88	Tue	3:00 PM	Boundary Waters
Warde, D. A. Sr.	121	Tue	3:00 PM	Boundary Waters
Warde, D. A. Sr.	122	Tue	3:00 PM	Boundary Waters
Weiss, C. C.	7A.3	Tue	2:00 PM	Great Lakes BC
Wendler, T.	108	Tue	3:00 PM	Boundary Waters
Werner, C. G.	107	Tue	3:00 PM	Boundary Waters
Wijekularatne, R.	V9	Wed	9:00 AM	
Williams, C. R.	5	Mon	3:00 PM	Boundary Waters
Williams, C. R.	11B.6	Wed	2:45 PM	Great Lakes A
Wilson, J.	1.3	Mon	9:30 AM	Great Lakes BC
Wong, K. H.	14B.5	Thu	2:30 PM	Great Lakes A
Wugofski, S.	31	Mon	3:00 PM	Boundary Waters
Wugofski, S.	181	Thu	3:00 PM	Boundary Waters
Wurman, J.	7A.6	Tue	2:45 PM	Great Lakes BC
Wurman, J.	68	Tue	3:00 PM	Boundary Waters
Wurman, J.	69	Tue	3:00 PM	Boundary Waters
X				
Xu, F.	80	Tue	3:00 PM	Boundary Waters
Y				
Yang, J.	39	Mon	3:00 PM	Boundary Waters
Ying Wa, C.	92	Tue	3:00 PM	Boundary Waters
Yu, L. N.	13	Mon	3:00 PM	Boundary Waters
Yu, T. Y.	43	Mon	3:00 PM	Boundary Waters
Yu, T. Y.	70	Tue	3:00 PM	Boundary Waters
Yu, T. Y.	9B.5	Wed	9:00 AM	Great Lakes A
Z				
Zaremba, T. J.	9A.2	Wed	8:15 AM	Great Lakes BC
Zaremba, T. J.	172	Thu	3:00 PM	Boundary Waters
Zhang, J.	141	Thu	3:00 PM	Boundary Waters
Zhang, P.	52	Mon	3:00 PM	Boundary Waters
Zhang, P.	53	Mon	3:00 PM	Boundary Waters
Zhang, S.	2B.4	Mon	11:15 AM	Great Lakes A
Zhu, Z.	27	Mon	3:00 PM	Boundary Waters
Zhuang, B. X.	12A.2	Thu	8:15 AM	Great Lakes BC
Zrnic, D. S.	7B.2	Tue	1:45 PM	Great Lakes A

40th Conference on Radar Meteorology
28 August – 01 September 2023
Minneapolis, MN and Online

The program organizers would like to acknowledge the following for their contributions to the 40th Conference on Radar Meteorology.

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Achraf Tounsi
Jorge Bravo
Michael Sessa
Anthony C Haberman

AMS Student Travel Grant Recipients
Oluwafemi Omitusa
Konnor Stump

Radar Meteorology
Conference Series

DATE	LOCATION	CONFERENCE NAME
March 1947	Cambridge, MA	(First) Conference on Radar Meteorology
October 1951	Urbana, IL	Second Conference on Radar Meteorology
September 1952	Montreal, PQ, Canada	Third International Conference on Radar Meteorology
November 1953	Austin, TX	Fourth Conference on Radar Meteorology
12-15 September 1955	Asbury Park, NJ	Fifth Conference on Radar Meteorology
26-28 March 1957	Cambridge, MA	Sixth Conference on Radar Meteorology
17-20 November 1958	Miami Beach, FL	Seventh Conference on Radar Meteorology
11-14 April 1960	San Francisco, CA	Eighth Conference on Radar Meteorology
23-26 October 1961	Kansas City, MO	Ninth Conference on Radar Meteorology
22-25 April 1963	Washington, D.C.	10th Conference on Radar Meteorology
14-18 September 1964	Boulder, CO	11th Conference on Radar Meteorology
17-20 October 1966	Norman, OK	12th Conference on Radar Meteorology
20-23 August 1968	Montreal, PQ, Canada	13th International Conference on Radar Meteorology
17-21 November 1970	Tucson, AZ	14th Conference on Radar Meteorology
10-12 October 1972	Champaign-Urbana, IL	15th Conference on Radar Meteorology
22-24 April 1975	Houston, TX	16th Conference on Radar Meteorology
25-29 October 1976	Seattle, WA	17th Conference on Radar Meteorology
28-31 March 1978	Atlanta, GA	18th Conference on Radar Meteorology
15-18 April 1980	Miami Beach, FL	19th Conference on Radar Meteorology
30 Nov.-3 Dec.1981	Boston, MA	20th Conference on Radar Meteorology
19-23 September 1983	Edmonton, AB, Canada	21st International Conference on Radar Meteorology
10-14 September 1984	Zurich, Switzerland	22nd International Conference on Radar Meteorology
22-26 September 1986	Snowmass, CO	23rd Conference on Radar Meteorology
9-13 November 1987	Boston, MA	24th Conference on Radar Meteorology
24-28 June 1991	Paris, France	25th International Conference on Radar Meteorology
24-28 May 1993	Norman, OK	26th Conference on Radar Meteorology
9-13 October 1995	Vail, CO	27th Conference on Radar Meteorology
7-12 September 1997	Austin, TX	28th Conference on Radar Meteorology
12-16 July 1999	Montreal, PQ, Canada	29th International Conference on Radar Meteorology
19-24 July 2001	Munich, Germany	30th International Conference on Radar Meteorology
6-12 August 2003	Seattle, WA	31st Conference on Radar Meteorology

24–29 October 2005	Albuquerque, NM	32nd Conference on Radar Meteorology
6-10 August 2007	Cairns, Australia	33rd Conference on Radar Meteorology
5-9 October 2009	Williamsburg, VA	34th Conference on Radar Meteorology
26-30 September 2011	Pittsburgh, PA	35th Conference on Radar Meteorology
16-20 September 2013	Breckenridge, CO	36th Conference on Radar Meteorology
14-18 September 2015	Norman, OK	37th Conference on Radar Meteorology
28 August-1 September 2017	Chicago, IL	38th Conference on Radar Meteorology
16-20 September 2019	IRAKA, Nara, Japan	39th International Conference on Radar Meteorology
28 August–01 September 2023	Minneapolis, MN	40th Conference on Radar Meteorology

FLOOR PLAN

Fourth Floor Meeting Rooms