



# Northeast Regional Operations Workshop (NROW) XXIV

## Conference Agenda



Day 1: Tuesday 14 November 2023

7:00 AM - 7:45 AM: Conference Check-in  
Coffee and Refreshments sold by the SUNY Albany Student AMS Chapter

**7:45 AM - 7:50 AM: Opening Remarks**

Christina Speciale, NROW Chair, NOAA/NWS/WFO Albany, New York

Christopher Gitro, Meteorologist-In-Charge, NOAA/NWS/WFO Albany, New York

**7:50 AM - 8:00 AM: Student Map Discussion**

Evan Belkin, Department of Atmospheric and Environmental Sciences

University at Albany, State University of New York

**Session A: Decision Support Services (8:00 AM - 9:05 AM)**

Session Chair: Steve DiRienzo

Mic Runner: Vasil Koleci

**8:00 AM - 8:15 AM: A Night Shift Derailed: Lessons Learned from the High-Profile Train Derailment in East Palestine, OH**

Shannon Hefferan (Virtual)

NOAA/NWS/WFO Pittsburgh, Pennsylvania

**8:15 AM - 8:30 AM: Extensive Flash Flooding of 29 September 2023 in the New York City Metro Area**

David Stark and James Tomasini (Virtual)

NOAA/NWS/WFO New York, New York

**8:30 AM - 8:45 AM: An Overview of the June 2023 NYC Smoke Event**

David Radell (Virtual)

NOAA/NWS/WFO New York, New York

**8:45 AM - 9:00 AM: Machine Learning-Driven Detection of Road Surface Conditions in Department of Transportation Camera Images**

Carly Sutter

Department of Environmental and Atmospheric Science

University at Albany, State University of New York

9:00 AM - 9:05AM: Q & A for Session A - Decision Support Services





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Day 1: Tuesday 14 November 2023

 **9:05 AM - 9:20 AM: Break** 

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### **NROW XXIV Keynote Presentation (9:20 AM - 10:05 AM)**

Mic Runner: Christina Speciale



**Introduction:** Jeanette Sutton

College of Emergency Preparedness, Homeland Security and Cybersecurity  
University at Albany, State University of New York

### **The Melting Pot Paradox: Ensuring Equitable Response for All New Yorkers**

**Keynote Speaker:** Joseph Trujillo - Falcón

Cooperative Institute for Severe and High-Impact Weather Research and Operations  
The University of Oklahoma, Norman, OK  
NOAA National Severe Storms Laboratory, Norman, OK  
NWS Storm Prediction Center, Norman, OK

 **10:05 AM - 10:20 AM: Break** 

Coffee and Refreshments sold by the SUNY Albany Student AMS Chapter

### **Session B: Weather Risk Communication and User Response (10:20 AM - 11:25 AM)**

Session Chair: Joe Villani

Mic Runner: Neil Stuart

#### **10:20 AM - 10:35 AM: Disconnected by Choice: Ongoing Efforts across the National Weather Service to Protect Life and Property in the Amish/Plain Communities**

Jonathan Guseman (Virtual)  
NOAA/NWS/WFO State College, Pennsylvania

#### **10:35 AM - 10:50 AM: The Influence of Social Media User-Type on Informational Behaviors and Hazard Adjustments During Hurricane Dorian**

Amber Silver  
College of Emergency Preparedness, Homeland Security and Cybersecurity  
University at Albany, State University of New York



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### Day 1: Tuesday 14 November 2023

#### 10:50 AM - 11:05 AM: **Improving Communication With Highly Vulnerable Societal Groups: Results from Interviews and a Survey**

Josef Moses

School of Marine and Atmospheric Sciences



Stony Brook University, Stony Brook, New York

#### 11:05 AM - 11:20 AM: **“Hangover” Currents? The Challenges of Spanish Language Rip Current Outreach**

Jase Bernhardt

Hofstra University

11:20 AM - 11:25 AM: Q & A for Session B  
Weather Risk Communication and User Response

 **11:25 AM - 11:40 AM: Break** 

Coffee and Refreshments sold by the SUNY Albany Student AMS Chapter

### **Session C: Cool Season/Winter Weather** (11:40 AM - 12:45 PM)

Session Chair: Neil Stuart

Mic Runner: Lee Picard

#### 11:40 AM - 11:55 AM: **Although What Happens in Vegas Stays in Vegas, What Happens Over the North Pacific (NPAC) Definitely Does Not Stay over the NPAC**

Lance Bosart

Department of Environmental and Atmospheric Science

University at Albany, State University of New York

#### 11:55 AM - 12:10 PM: **National Weather Service Snowfall Forecast Spatial Bias in Northeast Cyclones**

Joseph Villani

NOAA/NWS/WFO Albany, New York

#### 12:10 PM - 12:25 PM: **Analyzing the Development and Movement of Mesoscale Snow Bands in the Eastern U.S. Significant Snow Storms between 2002-2022**

Neil Stuart

NOAA/NWS/WFO Albany, New York



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12:25 PM - 12:40 PM: **A Multiscale Analysis of the 29 April–2 May 2023 Winter Storm in Michigan's Upper Peninsula**

Daniel Thompson (Virtual)

NOAA/NWS/WFO Marquette, Michigan

12:40 PM - 12:45 PM: Q & A for Session C  
Cool Season/Winter Weather

**12:45 PM - 2:00 PM: Lunch Break**

See [Area Restaurant Documents](#) for Lunch Recommendations

**Session D: Buffalo Blizzard Showcase** (2:00 PM - 3:10 PM)

Session Chair: Abigayle Gant

Mic Runner: Joe Villani

2:00 PM - 2:15 PM: **A Holiday Period for the History Books: Part One A Forecaster's Perspective of the Deadly Christmas Blizzard of 23-27 December 2022**

Robert Hamilton (Virtual)

NOAA/NWS/WFO Buffalo, New York

2:15 PM - 2:30 PM: **A Holiday Period for the History Books: Part Two A Historical Perspective of the Crippling Metropolitan Buffalo Blizzard of 23-27 December 2022**

Michael Fries (Virtual)

NOAA/NWS/WFO Buffalo, New York

2:30 PM - 3:00 PM: **Buffalo Television Meteorologists Preparation & Coverage of the 2022 Christmas Blizzard**

Elyse Smith, Carl Lam, and Michael Doyle (Virtual)

Formerly of WGRZ - NBC Affiliate, Buffalo, New York

WGRZ - NBC Affiliate, Buffalo, New York

WIVB - CBS Affiliate, Buffalo, New York

3:00 PM - 3:10 PM: Q/A Session for Buffalo Blizzard Showcase

3:10 PM - 3:25 PM: **Break**

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### **Session E: Miscellaneous Topics** (3:25 PM - 5:00 PM)

Session Chair: Kevin Lipton

Mic Runner: Michael Main

#### **3:25 PM - 3:40 PM: Variability of Cool Season Precipitation Structures Within the Cyclone Comma Head**

Philip Yeh

School of Marine and Atmospheric Sciences

Stony Brook University, Stony Brook, New York

#### **3:40 PM- 3:55 PM: Investigation of Convective Environments in the Capital Region with Expanded Atmospheric Measurements (ICECREAM) Field Project**

Brian Tang

Department of Environmental and Atmospheric Science

University at Albany, State University of New York

#### **3:55 PM - 4:10 PM: Evaluating HRRR Model Forecasts of Impactful Severe Weather Events in Upstate New York**

Rachel Elridge

Department of Atmospheric and Environmental Sciences

University at Albany, State University of New York

#### **4:10 PM - 4:25 PM: The April 1, 2023 Mid-Atlantic Severe Weather Outbreak: How Mesoanalysis and Knowledge of Quasi-Linear Convective System Tornadogenesis Aided the Operational Performance of Weather Forecast Office Philadelphia/Mount Holly**

Cameron Wunderlin, Lee Robertson, and Matthew Brudy (Virtual)

NOAA/NWS/WFO Philadelphia, Pennsylvania/Mount Holly, New Jersey

#### **4:25 PM - 4:40 PM: Predicting Weather Related Power Outages in the Northeast United States**

Brian Filipiak

Department of Civil and Environmental Engineering

University of Connecticut



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### Day 1: Tuesday 14 November 2023

#### **4:40 PM - 4:55 PM: HRRR Wind Forecast Verification Against NYSM and Public Utility Observations**

Robert Fovell

Department of Atmospheric and Environmental Sciences

University at Albany, State University of New York

4:55 PM - 5:00 PM - Q & A for Session E  
Miscellaneous Topics

5:00 PM - 5:05 PM: Closing Remarks/Adjourn

Christina Speciale, NROW Chair

NOAA/NWS/WFO Albany, New York

**Meeting Adjourned**



# Northeast Regional Operations Workshop (NROW) XXIV

## Conference Agenda



Day 2: Wednesday 15 November 2023

7:00 AM - 7:50 AM: Conference Check-in.

Coffee and Refreshments sold by the SUNY Albany Student AMS Chapter

### **7:50 AM - 7:55 AM: Opening Remarks**

Christina Speciale, NROW Chair, NOAA/NWS/WFO Albany, New York

### **Session F: Precipitation Extremes & Flooding Inundation Mapping**

(7:55 AM - 9:15 AM)

Session Chair: Abigayle Gant

Mic Runner: Christina Speciale

### **7:55 AM - 8:10 AM: The Northeast Drought Early Warning System: History, Activities and Opportunities**

Sylvia Reeves

NOAA NIDIS Northeast DEWS

### **8:10 AM - 8:25 AM: Rain Without End - A Review of Summer 2023 in New Hampshire and Western Maine**

Justin Arnott (Virtual)

NOAA/NWS/WFO Gray/Portland, Maine

### **8:25 AM - 8:40 AM: A Hydrologic Perspective of the Historic July 9-11, 2023 Vermont Floods**

John Goff (Virtual)

NOAA/NWS/WFO Burlington, Vermont

### **8:40 AM - 8:55 AM: NWS Flood Inundation Mapping: A New Tool in the WFO Albany Hydrology Toolbox**

Britt Westergard

NOAA/NWS/WFO Albany, New York

### **8:55 AM - 9:10 AM: The Crucial Role of Flood Inundation Mapping (FIM) in the July 2023 Montpelier, VT Flood Damage Assessment**

Evan Belkin

NOAA/NWS Northeast River Forecast Center



# Northeast Regional Operations Workshop (NROW) XXIV

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Day 2: Wednesday 15 November

9:10 AM - 9:15 AM - Q & A for Session F

Precipitation Extremes & Flooding Inundation Mapping

9:15 AM - 9:30 AM: **Break & Poster Session**

Coffee and Refreshments sold by the SUNY Albany Student AMS Chapter

### **Session G: Winter Weather & Probabilistic/Collaboration Tools** (9:30 AM-10:35 AM)

Session Chair: Tom Wasula

Mic Runner: Brian Frugis

9:30 AM - 9:45 AM: **Exploring a New Dimension of Impact-Based Forecast**

**Products: Duration of Impacts**

Dana Tobin

CIRES/NOAA/NWS Weather Prediction Center

9:45 AM - 10:00 AM: **Collaboration of Winter Storm Watches**

Bryan Jackson

NOAA/NWS Weather Prediction Center

10:00 AM - 10:15 AM: **The Weather Prediction Center's Winter Weather**

**Experiment: Past Successes, Ongoing Challenges, and Future Plans**

Massey Bartolini

NOAA/NWS Weather Prediction Center

10:15 AM - 10:30 AM: **Examining the Performance of the National Blend of Models  
During High Impact Winter Weather in New England**

Christopher Gilberti

University at Albany, State University of New York

NOAA/NWS/WFO Gray/Portland, Maine

10:30 AM - 10:35 AM - Q & A for Session G

Winter Weather & Probabilistic/Collaboration Tools

10:35 AM - 10:50 AM: **Break & Poster Session**

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# Northeast Regional Operations Workshop (NROW) XXIV

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Day 2: Wednesday 15 November

### **Session H: Winter Weather Field Campaign, Ensembles & Artificial Intelligence**

(10:50 AM-12:00 PM)

Session Chair: Michael Main

Mic Runner: Christina Speciale

**10:50 AM - 11:05 AM: Using Airborne Measurements to Evaluate HRRR Forecasts of Freezing Drizzle Aloft: Results from the WINTRE-MIX Field Campaign**

Megan Schiede

University at Albany, State University of New York

**11:05 AM - 11:25 AM: Better Utilization of Ensembles in Operations Through Clustering and Ensemble Sensitivity Analysis**

Brian Colle

School of Marine and Atmospheric Sciences

Stony Brook University, Stony Brook, New York

**11:25 AM - 11:40 AM: Using Ensembles to Establish High Confidence in Historic Wind Chills During February 2023 in Maine**

Todd Foisy (Virtual)

NOAA/NWS/WFO Caribou, Maine

**11:40 AM - 11:55 AM: AI Coastal Upwelling Detection in the Mid-Atlantic Bight**

Andrea John

Department of Environmental Science

Rutgers University

11:55 AM - 12:00 PM - Q & A for Session H

Winter Weather Field Campaign, Ensembles & Artificial Intelligence

### **12:00 PM - 1:00 PM: Lunch Break & Poster Session**

Pre-Paid Catered Lunch from Bountiful Bread (First Floor Lobby - ETEC)

See [Area Restaurant Documents](#) for Lunch Recommendations



# Northeast Regional Operations Workshop (NROW) XXIV

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Day 2: Wednesday 15 November

### **1:00 PM - 2:15 PM: The National Weather Association (NWA) Research to Operations Nexus (RON) at NROW**

All In-Person Conference Attendees Welcome to Participate

First Floor Lobby - ETEC

Group 1: Risk Communication & Reaching Underserved & Vulnerable Populations

Subject Matter Experts: Dr. Jeannette Sutton & Joseph Trujillo-Falcón

Group 2: Data Visualization

Subject Matter Experts: Dr. Nicholas Bassil & Dr. June Wang

Group 3: AI/Machine Learning

Subject Matter Experts: Dr. Kara Suila & Dr. Sukanta Basu

Group 4: Probabilistic Forecasting

Subject Matter Experts: Dr. Brian Colle & Dr. Ryan Torn

 2:15 PM - 2:30 PM: **Break & Poster Session** 

Coffee and Refreshments sold by the SUNY Albany Student AMS Chapter

### **Session I: Severe Weather** (2:30 PM - 3:45 PM)

Session Chair: Brian Frugis

Mic Runner: Andrei Evbuoma

#### **Invited Presentation**

**2:30 PM - 3:10 PM: A Retrospective Look at 50 Years of Severe Weather Forecasting**

Steven Weiss

Retired NOAA/NWS Storm Prediction Center

### **3:10 PM - 3:25 PM: New York and New England Significant Hail Climatology Part I: Climatology and Case Studies**

Thomas Wasula

NOAA/NWS/WFO Albany, New York

### **3:25 PM - 3:40 PM: New York and New England Significant Hail Climatology Part II: Environmental Analysis**

Michael Main

NOAA/NWS/WFO Albany, New York

3:40 PM - 3:45 PM - Q & A for Session I - Severe Weather



# Northeast Regional Operations Workshop (NROW) XXIV

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Day 2: Wednesday 15 November

☕ 3:45 PM - 4:00 PM: **Break & Poster Session** ☕

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### **Session J: Winter Weather, Modeling & Messaging** (4:00 PM - 5:20 PM)

Session Chair: Lee Picard

Mic Runner: Tom Wasula

#### **4:00 PM - 4:15 PM: Beyond the Message: What to Consider for Emergency Communications**

DeeDee Bennett Gayle

College of Emergency Preparedness, Homeland Security and Cybersecurity  
University at Albany, State University of New York

#### **4:15 PM - 4:30 PM: A Grassroots Effort Continues to Gain Traction: Year Three of the Snow Squall Safety Campaign**

John Banghoff (Virtual)

NOAA/NWS/WFO State College, Pennsylvania (Virtual)

#### **4:30 PM - 4:45 PM: Environmental Conditions and Forecast Error Evolution Associated with Synoptic Progressiveness Errors in GFS Forecasts**

Kevin Lupo

National Center for Atmospheric Research

Center for Western Weather and Water Extremes, Scripps Institution of Oceanography,  
UC San Diego

#### **4:45 PM - 5:00 PM: Evaluating Stochastic Parameter Perturbations in Convection-Permitting Ensemble Forecasts of Lake-Effect Snow**

Justin Minder

Department of Atmospheric and Environmental Sciences

University at Albany, State University of New York

#### **5:00 PM - 5:15 PM: The Development of Snow Multi-Bands in High-Resolution Idealized Baroclinic Wave Simulations**

Nicholas Leonardo

School of Marine and Atmospheric Sciences

Stony Brook University, Stony Brook, New York

5:15 PM - 5:20 PM - Q & A for Session J  
Winter Weather, Modeling & Messaging



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Day 2: Wednesday 15 November

5:20 PM - 5:25 PM: **Closing Remarks/Adjourn**

Christina Speciale, NROW Chair

NOAA/NWS/WFO Albany, New York

**Meeting Adjourned**  
**NROW XXV - November 2024**