

Agenda
Northeast Regional Operational Workshop XXIII
Albany, New York
UAlbany ETEC Building First Floor Shared Training Room
Day 1: Wednesday, November 2, 2022

8:00–8:30 am

Welcome/Registration

Refreshments Sold by UAlbany AMS Chapter – ETEC First Floor Lobby

8:30–8:40 am

Opening Remarks & Conference Logistics

Christopher Gitro, Meteorologist-in-Charge

Daniel B. Thompson, NROW XXIII Steering Committee Chair

NOAA/NWS/WFO Albany, New York

8:40–8:55 am

Student Map Discussion

Erik Creighton

Department of Atmospheric and Environmental Sciences

University at Albany, State University of New York

Session A – IDSS/Messaging I (8:55–9:55 am)

Session Chair: Neil Stuart, NOAA/NWS/WFO Albany, New York

8:55–9:15 am

Analyzing Extreme Temperature Variables Across the New York City Metropolis Using a Dense Network of in situ Observations

Nick Bassill

Center of Excellence

University at Albany, State University of New York

9:15–9:35 am

Communicating about Extreme Heat: Results from Card Sorting and Think Aloud Interviews with Experts and Non-Experts

Jeannette Sutton and Sav Olivas

College of Emergency Preparedness, Homeland Security and Cybersecurity

Department of Emergency Management and Homeland Security

University at Albany, State University of New York

9:35–9:55 am

Information Seeking, Sharing, and Processing among Atlantic Canadians during Hurricane Fiona

Amber Silver

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

9:55–10:15 am

Break

Refreshments Sold by UAlbany AMS Chapter – ETEC First Floor Lobby

NROW XXIII Keynote Presentation (10:15–10:50 am)

Introduction

Stephen N. DiRienzo, Warning Coordination Meteorologist
NOAA/NWS/WFO Albany, New York

Keynote Presentation + Q&A

Commissioner Jackie Bray
New York State Division of Homeland Security and Emergency Services

10:50–11:00 am

Break

Refreshments Sold by UAlbany AMS Chapter – ETEC First Floor Lobby

Session B – IDSS/Messaging II (11:00 am–12:00 pm)

Session Chair: Christina Speciale, NOAA/NWS/WFO Albany, New York

[V] = Virtual Presentation

11:00–11:20 am

Communicating Rip Current Risk in English and Spanish [V]

Jase Bernhardt
Hofstra University, Hempstead, New York

11:20–11:40 am

How the Smog Stole Christmas [V]

Myranda Fullerton
NOAA/NWS/WFO Pittsburgh, PA

11:40 am–12:00 pm

Plowing Through: Nationally Collaborated Snow Squall Forecast Saves Lives

Bryan A. Jackson
NOAA/NWS Weather Prediction Center, College Park, Maryland

Lunch/Optional ETEC Tour (12:00–2:00 pm)

Refer to [Restaurant Guide](https://www.weather.gov/aly/nrow23) at [weather.gov/aly/nrow23](https://www.weather.gov/aly/nrow23) for area restaurants

Session C – Severe Weather I (2:00–3:00 pm)

Session Chair: Joseph P. Villani, NOAA/NWS/WFO Albany, New York

2:00–2:20 pm

A Local Verification Study of Convection-Allowing Model Performance during Convective Events in Eastern New York and Western New England

Part I: Initial findings

Michael Evans

NOAA/NWS/WFO Albany, New York

2:20–2:40 pm

A Local Verification Study of Convection-Allowing Model Performance during Convective Events in Eastern New York and Western New England

Part II: Environmental Breakdown

Michael Main

NOAA/NWS/WFO Albany, New York

2:40–3:00 pm

Evaluating HRRR Model Forecasts of Impactful Severe Weather Events in Upstate New York

Rachel A. Eldridge

Department of Atmospheric and Environmental Sciences

University at Albany, State University of New York

3:00–3:20 pm

Break

Refreshments Sold by UAlbany AMS Chapter – ETEC First Floor Lobby

Session D – Model Evaluation (3:20–4:40 pm)

Session Chair: Kevin Lipton, NOAA/NWS/WFO Albany, New York

3:20–3:40 pm

Numerical Weather Prediction at Urban Scales: Operational forecasting overview of uWRF over New York Metropolitan region

Jorge E. González-Cruz

Atmospheric Science Research Center

University at Albany, State University of New York

3:40–4:00 pm

Evaluating and Improving Snow Prediction in the National Water Model in New York State using New York State Mesonet Data

Sierra Liotta

Department of Atmospheric and Environmental Sciences

University at Albany, State University of New York

4:00–4:20 pm

Displacement Error Characteristics of 500-hPa Cutoff Lows in Operational GFS Forecasts

Kevin M. Lupo

National Center for Atmospheric Research, Boulder, Colorado

4:20–4:40 pm

GAZPACHO Version 6: A Summary of New Features and Enhancements

Joseph P. Villani

NOAA/NWS/WFO Albany, New York

4:40–4:50 pm

Closing Remarks/Adjourn

Daniel B. Thompson, NROW XXIII Steering Committee Chair

NOAA/NWS/WFO Albany, New York

Agenda
Northeast Regional Operational Workshop XXIII
Albany, New York
UAlbany ETEC Building First Floor Shared Training Room
Day 2: Thursday, November 3, 2022

7:30–8:00 am

Welcome/Registration

Refreshments Sold by UAlbany AMS Chapter – ETEC First Floor Lobby

8:00–8:05 am

Opening Remarks

Christopher Gitro, Meteorologist-in-Charge

Daniel B. Thompson, NROW XXIII Steering Committee Chair

NOAA/NWS/WFO Albany, New York

Session E – Novel Products and Techniques for Operations (8:05–9:25 am)

Session Chair: Brian Frugis, NOAA/NWS/WFO Albany, New York

[V] = Virtual Presentation

8:05–8:25 am

Improvement in NOAA Winter Weather Operations using New York State Mesonet Observations

Junhong (June) Wang

New York State Mesonet

University at Albany, State University of New York

8:25–8:45 am

Data Fusion: A Machine Learning Tool for Forecasting Winter Mixed Precipitation Events

Brian Filipiak

Department of Atmospheric and Environmental Sciences

University at Albany, State University of New York

8:45–9:05 am

Update on Research to Operations Activities: Some Successes and New Challenges

Brian A. Colle

School of Marine and Atmospheric Sciences

Stony Brook University, Stony Brook, New York

9:05–9:25 am

Using Machine Learning Clustering Algorithms to Identify Synoptic Environments

Conducive to Flood/Flash Flood Conditions in the NWS Boston (BOX) County Warning Area [V]

Rob Megnia

NOAA/NWS/WFO Boston/Norton, Massachusetts

Poster Session – ETEC First Floor Lobby (9:25–10:10 am)

Refreshments Sold by UAlbany AMS Chapter – ETEC First Floor Lobby

Analysis of the 15 May 2018 Severe Weather Event in Eastern New York

Erik Creighton

Department of Atmospheric and Environmental Sciences

University at Albany, State University of New York

Precipitation Type in the High-Resolution Ensemble Forecast System during the February 17th & February 23rd, 2022 Winter Storms

John R. England

Department of Atmospheric and Environmental Sciences

University at Albany, State University of New York

Validation of Offshore Winds in the ERA5 Reanalysis Using Two Floating LIDARS South of Long Island

Christopher G. Fragano

School of Marine and Atmospheric Sciences

Stony Brook University, Stony Brook, New York

Analysis of the 14 December 2018 Severe Weather Observed During RELAMPAGO

Emily Lucy

Department of Atmospheric and Environmental Sciences

University at Albany, State University of New York

Session F – Severe Weather II (10:10–11:30 am)

Session Chair: Thomas A. Wasula, NOAA/NWS/WFO Albany, New York

[V] = Virtual Presentation

10:10–10:30 am

September 5, 2022 Flash Flooding in Providence, RI [V]

Joseph W. DelliCarpini

NOAA/NWS/WFO Boston/Norton, Massachusetts

10:30–10:50 am

Using MRMS Rotational Tracks for Northeastern US Tornado Warning Guidance

Brian J. Frugis

NOAA/NWS/WFO Albany, New York

10:50–11:10 am

Improvement of Tornado Detection and Lead Time: Update of Environmental and Radar Parameters for the WFO Boston/Norton County Warning Area [V]

Joseph W. DelliCarpini
NOAA/NWS/WFO Boston/Norton, Massachusetts

11:10–11:30 am

November 13, 2021 Southern New England Tornado Outbreak

Hayden Frank

NOAA/NWS/WFO Boston/Norton, Massachusetts

Lunch (11:30 am–1:00 pm)

Refer to [Restaurant Guide](#) at weather.gov/aly/nrow23 for area restaurants

Session G – Winter Case Studies (1:00–2:20 pm)

Session Chair: Andrei Evbuoma, NOAA/NWS/WFO Albany, New York

[V] = Virtual Presentation

1:00–1:20 pm

The January 28-29, 2022 Mid Atlantic Blizzard [V]

Paul Fitzsimmons

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

1:20–1:40 pm

**Forecast and Impact-Based Decision Support Services During the January 28-29, 2022
Blizzard in Southern New England**

Hayden Frank

NOAA/NWS/WFO Boston/Norton, Massachusetts

1:40–2:00 pm

**The Heavy Mixed Precipitation and Localized Ice Storm on 3-4 February 2022 in Eastern
New York**

Part I: Synoptic and Mesoscale Overview

Thomas A. Wasula

NOAA/NWS/WFO Albany, New York

2:00–2:20 pm

**The Heavy Mixed Precipitation and Localized Ice Storm on 3-4 February 2022 in Eastern
New York**

Part II: Warnings, Communication of Hazards and Verification

Christina Speciale

NOAA/NWS/WFO Albany, New York

2:20–2:40 pm

Break

Refreshments Sold by UAlbany AMS Chapter – ETEC First Floor Lobby

Session H – Winter Field Campaigns (2:40–4:20 pm)

Session Chair: Michael Main, NOAA/NWS/WFO Albany, New York

[V] = Virtual Presentation

2:40–3:00 pm

Identification of Cool Season Precipitation Structures Within the Cyclone Comma Head during the IMPACTS Field Campaign

Phillip Yeh

School of Marine and Atmospheric Sciences

Stony Brook University, Stony Brook, New York

3:00–3:20 pm

Multifrequency Radar Observations of Precipitation and Turbulent Structures within East Coast Winter Storms

Erin Leghart

School of Marine and Atmospheric Sciences

Stony Brook University, Stony Brook, New York

3:20–3:40 pm

The Winter Precipitation Type Multiscale Experiment (WINTRE-MIX): Overview and Initial Results

Justin R. Minder

Department of Atmospheric and Environmental Sciences

University at Albany, State University of New York

3:40–4:00 pm

Investigating the Difference Between Members in the High-Resolution Rapid Refresh Ensemble (HRRRE) during the 23 February 2022 Winter Storm

Michael Barletta

Department of Atmospheric and Environmental Sciences

University at Albany, State University of New York

4:00–4:20 pm

Modeling Surface Precipitation Type Transition from Freezing Rain to Ice Pellets: A WINTRE-MIX Case Study [V]

Bin Han

Department of Atmospheric and Environmental Sciences

University at Albany, State University of New York

4:20–4:30 pm

Closing Remarks/Adjourn

Daniel B. Thompson, NROW XXIII Steering Committee Chair

NOAA/NWS/WFO Albany, New York