

Agenda
Northeast Regional Operational Workshop XX
Albany, New York
NanoFab South Conference Center, Room 103, 255 Fuller Road
Wednesday, November 6, 2019

8:50 am

Welcoming Remarks & Conference Logistics

Raymond G. O’Keefe, Meteorologist In Charge
Joseph P. Villani, NROW XX Steering Committee Chair
National Weather Service, Albany, New York

Session A – Climatology/Observations/Tropical (9:00 am to 10:20 am)

9:00 am

Understanding Frequent Lightning Environments over the NWS Albany, New York County Warning Area

Christina Speciale
NOAA/NWS Weather Forecast Office, Albany, New York
Brittany Connelly and Ian Anderson
Department of Atmospheric and Environmental Sciences
University at Albany, State University of New York, Albany, New York

9:20 am

New York State Mesonet: A Summary of Recent Updates, Case Studies, and Research Collaborations

Jerry Brotzge
New York State Mesonet, University at Albany, Albany, New York

9:40 am

The Investigation of Microphysics and Precipitation for Atlantic Coast-Threatening Snowstorms (IMPACTS) Field Program

Brian A. Colle
School of Marine and Atmospheric Sciences
Stony Brook University, Stony Brook, New York

10:00 am

Forecast Parameters Favoring Systematic Large TC Track Errors in the EC and GEFS Ensembles

Nicholas Leonardo
School of Marine and Atmospheric Sciences
Stony Brook University, Stony Brook, New York

10:20 am to 10:40 am

Break: SUNY Albany AMS selling Refreshments (Conference Center Rotunda)

Session B – Numerical Weather Prediction and Applications

(10:40 am to 12:00 pm)

10:40 am

The Experimental High-Resolution SAR-FV3 Model with Local Forecast Examples

Michael Evans

NOAA/NWS Weather Forecast Office, Albany, New York

11:00 am

Evaluation and Verification of Boundary Layer Structure in Operational Models

Robert G. Fovell

Department of Atmospheric and Environmental Sciences

University at Albany, State University of New York, Albany, New York

11:20 am

Investigating the Uncertainties of Forecasting Northeast Cold Season Precipitation in Numerical Weather Prediction Models

Yanna Chen

Department of Atmospheric and Environmental Sciences

University at Albany, State University of New York, Albany, New York

11:40 am

The Influence of Turbulence Parameterizations on the 2 March 2018 Snowstorm

Matthew Vaughan

Department of Atmospheric and Environmental Sciences

University at Albany, State University of New York, Albany, New York

12:00 pm – 1:30 pm

Lunch

Session C – Research/CSTAR (1:30 pm to 2:50 pm)

1:30 pm

Simulating the Effects of Terrain-Induced Perturbations on Severe Convection Using an Idealized Valley

Brian Tang and William Flamholtz

Department of Atmospheric and Environmental Sciences

University at Albany, State University of New York, Albany, New York

1:50 pm

Single-Parameter Perturbations: Quantifying Microphysical Parameterization Uncertainty in Convection-Permitting Forecasts of the 10–12 December 2013 Lake-Effect Snow Event

W. Massey Bartolini

Department of Atmospheric and Environmental Sciences

University at Albany, State University of New York, Albany, New York

2:10 pm

Advances in Our Understanding of Lake-Effect Systems from the Ontario Winter Lake-effect Systems Field and Research Program

Jim Steenburgh

University of Utah, Salt Lake City, Utah

2:30 pm

Mesoscale Gravity Waves as an Unclassified Type of Storm:

A Research to Operations Opportunity for Northeast U.S. Forecasters

Anton Seimon

Appalachian State University, Boone, North Carolina

2:50 pm to 3:10 pm

Break: SUNY Albany AMS selling Refreshments (Conference Center Rotunda)

Session D – Severe Weather (3:10 pm to 4:00 pm)

3:10 pm

A Machine Learning Approach to Severe Thunderstorm Downburst Prediction

Luke LeBel

Department of Atmospheric and Environmental Sciences

University at Albany, State University of New York, Albany, New York

3:30 pm

Correlating Trends in Flash Extent Density for Tornadoic Supercell Development over the Northeastern United States

Michael L. Jurewicz, Sr.

NOAA/NWS, Weather Forecast Office, State College, Pennsylvania

3:50 pm to 4:00 pm

Break: SUNY Albany AMS selling Refreshments (Conference Center Rotunda)

NROW XX Key Note Presentation #1 (4:00 pm to 5:00 pm)

A Probabilistic Foundation for Winter Decision Support Services

Dr. David Novak

NOAA/NWS/NCEP, Weather Prediction Center, College Park, Maryland

5:00 pm

Wrap up/Adjourn

Joseph P. Villani

6:30–9:00 pm

CSTAR Dinner at Brown’s Brewing Company (Trojan Room) for participants in UAlbany–NWS CSTAR VI & VII (417 River Street, Troy, New York, 518-273-2337)

Agenda
Northeast Regional Operational Workshop XX
Albany, New York
Nano South Conference Center, Room 103, 255 Fuller Road
Thursday, November 7, 2019

8:05 am

Opening Remarks

Raymond G. O'Keefe, Meteorologist In Charge
Joseph P. Villani, NROW XX Steering Committee Chair
National Weather Service, Albany, New York

NROW XX Key Note Presentation #2 (8:15 am to 9:15 am)

Celebrating 20 Years of NWS Winter Weather Program Advancements

Dr. Louis Uccellini
NOAA/NWS Headquarters Silver Spring, Maryland

Session E – Hydrology (9:20 am to 10:40 am)

9:20 am

Improving the Detection of Flash Floods in southern New England

Lindsay Lawrence
Hollings Scholar with NOAA/NWS Weather Forecast Office, Boston/Norton,
Massachusetts

9:40 am

Meteorological Model Ensemble Forecast Service (MMEFS) vs. Meteorological Ensemble Forecast Processor (MEFP) Service during Spring 2019 High-Flow Events

Erick Boehmler
NOAA/NWS Northeast River Forecast Center, Boston/Norton, Massachusetts

10:00 am

A Comparison of New York State Mesonet Precipitation Data against Automated Surface Observing System (ASOS) Precipitation Data across New York State

Ronald S.W. Horwood
NOAA/NWS, Northeast River Forecast Center, Boston/Norton, Massachusetts

10:20 am

Improving Flash Flood Warning Services for Northern New England

Katy Hollinger
Department of Atmospheric and Environmental Sciences
University at Albany, State University of New York, Albany, New York

10:40 am to 11:00 am

Break: SUNY Albany AMS selling Refreshments (Conference Center Rotunda)

Session F – High Impact Events/Messaging (11:00 am to 12:20 pm)

11:00 am

The New York City Metro Area Transportation Apocalypse Event of 15 November 2018

Lance F. Bosart

Department of Atmospheric and Environmental Sciences

University at Albany, State University of New York, Albany, New York

11:20 am

Communicating Rip Current Risk with a Virtual Reality Video Game

Jase Bernhardt

Department of Geology, Environment and Sustainability

Hofstra University, Hempstead, New York

11:40 am

Aviation Impact-Based Decision Support Services – It's about more than just Thunderstorms

Scott Reynolds

NOAA/NWS Central Weather Service Unit, Nashua, New Hampshire

12:00 pm

The 1 December 2006 Anomalous Severe Weather Event across the Northeast

Thomas A. Wasula

NOAA/NWS Weather Forecast Office, Albany, New York

12:20 pm – 1:50 pm

Lunch

Poster Session - NanoFab South Rotunda (1:50 pm to 2:40 pm)

Recent Examples of Using Specific Differential Phase to Help Predict Severe Thunderstorm Wind Damage

Brian J. Frugis

NOAA/NWS Weather Forecast Office, Albany, New York

Tracking the Sherpa Fire Plume: How the Catalina Eddy Transports Pollutants in the L.A. Basin

Erin Leghart

Department of Atmospheric and Environmental Sciences

University at Albany, State University of New York, Albany, New York

Effects of Latent Heating on Frontogenetic Enhancement in Idealized Atmospheric Rivers

Justin Templer

Department of Atmospheric and Environmental Sciences

University at Albany, State University of New York, Albany, New York

Use of a GIS Application to evaluate the Accuracy of Forecaster and Model Predictions of Snowfall in eastern New York and western New England

Joseph P. Villani

NOAA/NWS Weather Forecast Office, Albany, New York

The Multi-Hazard Severe Event of 21 August 2019 across eastern New York and western New England

Thomas A. Wasula

NOAA/NWS Weather Forecast Office, Albany, New York

Session G – Winter Weather (2:40 pm to 4:00 pm)

2:40 pm

Forecast Considerations Involving Extreme Snow-to-Liquid Ratios

Peter C. Banacos

NOAA/NWS Weather Forecast Office, Burlington, Vermont

3:00 pm

Understanding the Interaction between Short-Wave Troughs and Lake-Effect Snow Events off Lake Ontario

Ian Beckley

Department of Geoscience, Hobart and Williams Smith Colleges, Geneva, New York

3:20 pm

Computing Snowfall Forecast Biases for Warning-Level Lake-Effect Snow Events Downwind of Lake Ontario

Jared Klein

NOAA/NWS Weather Forecast Office, Binghamton, New York

3:40 pm

New York State Mesonet Snow Network: Review of 2018-2019 Data and Plan for 2019-2020

Junhong (June) Wang

New York State Mesonet

University at Albany, State University of New York, Albany, New York

4:00 pm – Wrap Up/Adjourn

Joseph P. Villani

NROW XXI is scheduled for November 4–5, 2020