

Agenda
Northeast Regional Operational Workshop XXI
Albany, New York
Virtual Meeting via GotoWebinar
Wednesday, November 4, 2020

8:50 am

Welcoming Remarks & Webinar Logistics

Raymond G. O’Keefe, Meteorologist-in-Charge
Brian J. Frugis, NROW XXI Steering Committee Chair
National Weather Service, Albany, New York

Session A – Hydrology (9:00 am to 10:20 am)

9:00 am

Hydrometeorological Characteristics of Ice Jams on the Pemigewasset River in Central New Hampshire

Jason M. Cordeira
Plymouth State University, Plymouth, New Hampshire

9:20 am

The Record Breaking Floods of October 31–November 1, 2019 in New York and northern Vermont

Neal M. Strauss
NOAA/NWS Northeast River Forecast Center, Boston/Norton, Massachusetts

9:40 am

A Meteorological Review of the 31 October – 01 November 2019 Historic Flooding Event across Eastern New York

Victoria Zenobio
Department of Atmospheric and Environmental Sciences
University at Albany, State University of New York, Albany, New York
Christina Speciale
NOAA/NWS Weather Forecast Office, Albany, New York

10:00 am

When the rivers rose scary fast: Hydrology of the Record Halloween 2019 Flood in the Albany, NY NWS Service Area

Britt Westergard
NOAA/NWS Weather Forecast Office, Albany, New York

10:20 am to 10:40 am

Break

Session B – NWP/Modeling (10:40 am to 11:40 am)

10:40 am

Sensitivity of Forecast Precipitation Type to WRF Boundary Layer Parameterizations over Complex Terrain

Matthew R. Seymour

Department of Atmospheric and Environmental Sciences

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

11:00 am

Modeling Convective Mode Changes in Complex Terrain in the Northeast U.S

Brennan J. Stutsrim

Department of Atmospheric and Environmental Sciences

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

11:20 am

Precipitation Forecast Sensitivity to Horizontal Grid Spacing in Convection-Allowing Models over the central-eastern United States

Craig S. Schwartz

National Center for Atmospheric Research, Boulder, Colorado

Session C – CSTAR (11:40 am to 12:20 pm)

11:40 am

CSTAR Update: Ensemble Clustering and Improving Communication of Uncertainty and Risk through Innovative Forecaster Workshops

Brian A. Colle

School of Marine and Atmospheric Science, Stony Brook University, Stony Brook, New York

12:00 pm

CSTAR Update: Assessing Warm Season Model QPF in New England

Rodney Chai

NOAA/NWS Weather Forecast Office, Boston/Norton, Massachusetts

12:20 pm – 1:40 pm

Lunch

Session D – Severe Weather (1:40 pm to 3:20 pm)

1:40 pm

A Multi-Scale Analysis of the 29 August 2020 Tornadoic Event across Eastern New York

Thomas A. Wasula

NOAA/NWS Weather Forecast Office, Albany, New York

2:00 pm

May 15, 2020 Severe Thunderstorms in Southern New England

Joseph W. DelliCarpini

NOAA/NWS Weather Forecast Office, Boston/Norton, Massachusetts

2:20 pm

Tools to Improve Tornado Warning Performance for Supercells: ZDR/KDP Separation and Size Sorting Signals

Michael L. Jurewicz, Sr.

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

2:40 pm

Application of diagnostic techniques from the tornado warning improvement project to two tornadic convective storms in the Albany, NY county warning area

Michael Evans

NOAA/NWS Weather Forecast Office, Albany, New York

3:00 pm

The 7 October 2020 Severe Weather Event across Upstate New York and New England

Mitchell W. Gaines

NOAA/NWS Weather Forecast Office, Binghamton, New York

3:20 pm – 3:40 pm

Break

Session E – Tropical Storm Isaias (3:40 pm to 4:40 pm)

3:40 pm

Recap of Tropical Storm Isaias and its Hydrological Comparison to Irene and Floyd across the NWS Albany CWA

Brett Rathbun

NOAA/NWS Weather Forecast Office, Albany, New York

4:00 pm

Not Just a Tropical Storm: Hurricane Isaias and its Impacts to the Greater New York City Metropolitan Area

Da'Vel Johnson

NOAA/NWS Weather Forecast Office, New York City/Upton, New York

4:20 pm

Sources of Large Track Errors in Ensemble Forecasts of Hurricane Isaias (2020) as Compared to Past Tropical Cyclones

Nicholas Leonardo

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

4:40 pm

Wrap up/Adjourn

Brian J. Frugis

Northeast Regional Operational Workshop XXI
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Thursday, November 5, 2020

8:55 am

Opening Remarks

Raymond G. O’Keefe, Meteorologist In Charge
Brian J. Frugis, NROW XXI Steering Committee Chair
National Weather Service, Albany, New York

Session F – Cool Season Case Studies (9:00 am to 10:00 am)

9:00 am

Investigating the Forecast Challenges from a Quick-Hitting Heavy Snow Event in Central New York and Northeastern Pennsylvania on 7 February 2020

Michael J. Murphy
NOAA/NWS Weather Forecast Office, Binghamton, New York

9:20 am

Structure and Evolution of the Banded Precipitation during the 7 February 2020 Cyclone Event during IMPACTS

Phillip Yeh
School of Marine and Atmospheric Sciences, Stony Brook University, Stony Brook, New York

9:40 am

Retrospective Analysis of the 25-27 November 1950 “Great Appalachian Storm”

Kevin Lipton
NOAA/NWS Weather Forecast Office, Albany, New York

Session G –Messaging/IDSS (10:00 am to 11:00 am)

10:00 am

Storm Tide Pathways: A Collaborative Effort to Mitigate the Impacts of Coastal Flooding

Joseph W. DelliCarpini
NOAA/NWS Weather Forecast Office, Boston/Norton, Massachusetts

10:20 am

Enhancement of IDSS and Public Interaction at NWS Boston/Norton during the COVID-19 Pandemic

Joseph W. DelliCarpini
NOAA/NWS Weather Forecast Office, Boston/Norton, Massachusetts

10:40 am

Toward the Implementation of Near Real-Time Forecast Flood Inundation Mapping Services in the Northeast U.S.

Dave R. Vallee

Hydrologist-in-Charge

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

11:00 am – 11:20 am

Break

Session H – Observations (11:20 am to 12:20 pm)

11:20 am

COVID-19 Impact on Aerosol Concentrations in Urban Areas

David Moore

Department of Atmospheric and Environmental Sciences

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

11:40 am

Analysis and Verification of Experimental Wet Bulb Globe Temperature Forecasts in Urban NY Locations

Dave Radell

NOAA/NWS Weather Forecast Office, New York City/Upton, New York

12:00 pm

Diagnosing the Relationship between Flash Flooding and NYSM Soil Moisture

Andrew Lunavictoria

New York State Mesonet

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

12:20 pm – 1:40 pm

Lunch

Session I – Winter Weather (1:40 pm to 3:00 pm)

1:40 pm

WPC Winter Desk Operations 2020/2021

Bryan Jackson

NOAA/NWS Weather Prediction Center, College Park, Maryland

2:00 pm

Lessons Learned from the First Two Years of NWS Snow Squall Warnings

Jared R. Klein

NOAA/NWS Weather Forecast Office, Binghamton, New York

2:20 pm

Antecedent Road and Air Conditions Associated with High-Impact Snow Squalls

Michael Colbert

NOAA/NWS Weather Forecast Office, State College, Pennsylvania

2:40 pm

Quantifying Snowpack Error in the NOAA National Water Model for the Northeastern United States

Patrick Naple

Department of Atmospheric and Environmental Sciences

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

3:00 pm – 3:15 pm

Break

NROW XXI Key Note Presentation (3:15 pm to 4:00 pm)

Introduction: Neil Stuart

Ready or Not: Understanding how end-users obtain, interpret, and respond to official and unofficial forecast information

Dr. Amber Silver

College of Emergency Preparedness, Homeland Security and Cybersecurity

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

4:00 pm – Wrap Up/Adjourn

Brian J. Frugis

NROW XXII is scheduled for November 3–4, 2021