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 Tornadic 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