Agenda
Northeast Regional Operational Workshop XIX
Albany, New York
NanoFab South Conference Center, Room 103, 255 Fuller Road
Wednesday, November 7, 2018

8:05 am
Welcoming Remarks & Conference Logistics
Raymond G. O'Keefe, Meteorologist In Charge
Joseph P. Villani, NROW XIX Steering Committee Chair
National Weather Service, Albany, New York

Session A – Severe Weather I (8:15 am to 9:55 am)

8:15 am
The 15 May 2018 Northeast U.S. Significant Severe Weather Outbreak
Joseph E. Cebulko
NOAA/NWS Weather Forecast Office, Albany, New York

8:35 am
Differences Between High–Shear / Low–CAPE Environments in the Northeast US Favoring Straight-Line Damaging Winds vs Tornadoes
Michael E. Main
Department of Atmospheric and Environmental Sciences
University at Albany, State University of New York, Albany, New York

8:55 am
The Use of Collapsing Specific Differential Phase Columns to Predict Significant Severe Thunderstorm Wind Damage across the Northeastern United States
Brian J. Frugis
NOAA/NWS Weather Forecast Office, Albany, New York

9:15 am
Evaluating the Effects of Terrain-Channeled, Low-Level Flow on Convective Organization
William Flamholtz
Department of Atmospheric and Environmental Sciences
University at Albany, State University of New York, Albany, New York

9:35 am
A Mesonet-Based Approach to Convective Cold Pools and Severe Thunderstorm Forecasting
Daniel Reese
Department of Atmospheric and Environmental Sciences
University at Albany, State University of New York, Albany, New York

9:55 am
Morning Break
SUNY Albany AMS selling Refreshments in NanoFab South Conference Center
Rotunda

Session B – Winter Weather I (10:15 am to 11:35 am)

10:15 am
The 2 March 2018 Winter Storm in eastern New York
Michael Evans
NOAA/NWS Weather Forecast Office, Albany, New York

10:35 am
Forecasting the Inland Extent of Lake Effect Snow Bands Downwind of Lake Ontario
Joseph P. Villani
NOAA/NWS Weather Forecast Office, Albany, New York

10:55 am
The Influence of Boundary Layer Mixing on a Northeast Coastal Cyclone
Matthew Vaughan
Department of Atmospheric and Environmental Sciences
University at Albany, State University of New York, Albany, New York

11:15 am
Applying Forecast Track Diagnostics in High-Impact Northeast Winter Storms: Climatology and Case Analysis
Tomer Burg
Department of Atmospheric and Environmental Sciences
University at Albany, State University of New York, Albany, New York

11:35 am – 12:55 pm
Lunch

Session C – Hydrology/Flooding/Tropical (12:55 pm to 2:35 pm)

12:55 pm
The Mid–January 2018 Floods and Ice Jam Event
Neal M. Strauss
NOAA/NWS Northeast River Forecast Center, Boston/Norton, Massachusetts

1:15 pm
Cumulative Extreme Weather Events and Subsequent High-Impact Flooding in Southern Japan in Early July 2018
David R. Vallee
NOAA/NWS Northeast River Forecast Center, Boston/Norton, Massachusetts

1:35 pm
The 4 January 2018 Bomb Cyclone Record Breaking Coastal Flood Event
Frank Nocera
NOAA/NWS, Weather Forecast Office, Boston/Norton, Massachusetts

1:55 pm
Utilizing Dual-Polarization Instantaneous Precipitation Rate to Predict Flash Flooding
Aaron Reynolds and David Zaff
NOAA/NWS Weather Forecast Office, Buffalo, New York

2:15 pm
An Investigation of North Atlantic TC Ensemble Forecasts with Large Cross-track Errors
Nicholas Leonardo
School of Marine and Atmospheric Sciences
Stony Brook University, Stony Brook, New York

2:35 pm
Break: SUNY Albany AMS selling Refreshments in Nano South Conference Center Rotunda

Session D – Numerical Weather Predication and Applications
(2:55 pm to 4:35 pm)

2:55 pm
FV3GFS Official Evaluation Results for the Northeast U.S.
Alicia M. Bentley
I. M. Systems Group and NOAA/NWS/NCEP/EMC, College Park, Maryland

3:15 pm
A Sensitivity Analysis of WRF-Simulated Cold Air Damming Using Variable Parameterization Schema
Morgan M. Simms
NOAA/NWS, Weather Forecast Office, Newport/Morehead City, North Carolina

3:35 pm
CSTAR Update: Better Use of Ensembles in the Forecast Process: Scenario-Based Tools for Predictability Studies and Hazardous Weather Communication
Brian A. Colle
School of Marine and Atmospheric Sciences
Stony Brook University, Stony Brook, New York

3:55 pm
An Examination of Physical Approaches to Wind Gust Forecasting in New York City
Joshua Feldman
School of Marine and Atmospheric Sciences
Stony Brook University, Stony Brook, New York

4:15 pm
Validation of the WRF PBL over Long Island Sound during the LISTOS Experiment
Keenan Fryer
School of Marine and Atmospheric Sciences
Stony Brook University, Stony Brook, New York

<u>NROW XIX Key Note Presentation</u>

4:35 pm
Innovation in the Age of Autoforecasts
Greg Carbin
Chief of Forecast Operations
NOAA/NWS/NCEP, Weather Prediction Center, College Park, Maryland

5:35 pm
Wrap up
Joseph P. Villani

5:40 pm
Adjourn

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6:30–9:00 pm
CSTAR Dinner at Brown's Brewing Company (Trojan Room) for participants in UAlbany–NWS CSTAR VI
417 River Street, Troy, New York
518-273-2337

Agenda
Northeast Regional Operational Workshop XIX
Albany, New York
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Thursday, November 8, 2018

8:10 am
Opening Remarks
Raymond G. O'Keefe, Meteorologist In Charge
Joseph P. Villani, NROW XIX Steering Committee Chair
National Weather Service, Albany, New York

Session E – High Impact Weather Events/Messaging (8:15 am to 9:55 am)

8:15 am
The High–Impact, Multi-Hazard Storm of 29 December 1948 – 1 January 1949
In New York and New England
Stephen DiRienzo
NOAA/NWS Weather Forecast Office, Albany, New York

8:35 am
Retrospective Analysis of the 31 May 1998 Northeastern U.S. Severe Weather
Outbreak
Kevin S. Lipton
NOAA/NWS Weather Forecast Office, Albany, New York

8:55 am
The Christmas Day 2017 Snow and Damaging Wind Storm
Joseph W. DelliCarpini
NOAA/NWS, Weather Forecast Office, Boston/Norton, Massachusetts

9:15 am
Development of a Wind Extremes Forecast System for Transmission System Outage
Prediction
Jeffrey M. Freedman
Atmospheric Sciences Research Center
University at Albany, State University of New York, Albany, New York

9:35 am
Communicating Hurricane Risk with Virtual Reality: Strategies for Improving
Warnings
Jase Bernhardt
Department of Geology, Environment and Sustainability
Hofstra University, Hempstead, New York

9:55 am
Break: SUNY Albany AMS selling Refreshments in NanoFeb South Conference Center Rotunda

Session F – Winter Weather II (10:15 am to 11:55 am)

10:15 am
Operational Implementation of NWS Snow Squall Warnings for Winter 2018–19
Peter C. Banacos
NOAA/NWS Weather Forecast Office, Burlington, Vermont

10:35 am
Snow Squall Warnings: Operational Best Practices from 15 Years of Decision Support Services
Gregory A. DeVoir
NOAA/NWS Weather Forecast Office, State College, Pennsylvania

10:55 am
Convection-Permitting Ensemble Forecasts of the 10–12 December 2013 Lake-Effect Snow Event: Sensitivity to Microphysical Parameterizations
W. Massey Bartolini
Department of Atmospheric and Environmental Sciences
University at Albany, State University of New York, Albany, New York

11:15 am
Convection-Permitting Ensemble Forecasts of the 10–12 December 2013 Lake-Effect Snow Event: Sensitivity to Surface and Boundary Layer Parameterizations
Justin R. Minder
Department of Atmospheric and Environmental Sciences
University at Albany, State University of New York, Albany, New York

11:35 am
The 11–12 December 2008 Ice Storm across the Northeastern United States
John S. Quinlan
NOAA/NWS Weather Forecast Office, Albany, New York

11:55 am – 1:15 pm
Lunch

Session G – Climatology/Observations (1:15 pm to 2:35 pm)

1:15 pm
Preliminary Evaluation of Data from the GOES-16 Geostationary Lightning Mapper
Alan M. Cope
NOAA/NWS Weather Forecast Office, Mount Holly, New Jersey

1:35 pm
A Review of New York State Mesonet Site Properties and WMO Siting Criteria
Jerry Brotzge
New York State Mesonet
University at Albany, State University of New York, Albany, New York

1:55 pm
Comparisons of New York State Mesonet and ASOS Temperature data
Junhong (June) Wang
New York State Mesonet
University at Albany, State University of New York, Albany, New York

2:15 pm
Understanding Differences Between New York State Mesonet and ASOS Wind Observations
Alex Gallagher
Department of Atmospheric and Environmental Sciences
University at Albany, State University of New York, Albany, New York

Poster Session - NanoFab South Rotunda (2:35 pm to 3:05 pm)

2:35 pm

Microphysical Influences on Ensemble Members in the 15–16 December 2013 OWLeS Case
Jessica Blair
Department of Atmospheric and Environmental Sciences
University at Albany, State University of New York, Albany, New York

An Integrated Modeling and Observing System for the Study of the Ecology of Lake George in the Jefferson Project
Anthony P. Praino
IBM Thomas J. Watson Research Center, Yorktown Heights, New York

Machine Learning Methods to Predict Wind Energy Availability using New York State Mesonet Data (2018)
Aleks Siemenn
Atmospheric Sciences Research Center
University at Albany, State University of New York, Albany, New York

Large Scale Observational and Model Analysis of the Unusual 2015–2016 El Niño Event: Implications for California Precipitation
Chelsea Snide
Department of Atmospheric and Environmental Sciences
University at Albany, State University of New York, Albany, New York

LISTOS 2018: How Land–Water Interactions Affect Ozone Transport in the Long Island Sound Area
Brennan J. Stutsrim
Department of Atmospheric and Environmental Sciences
University at Albany, State University of New York, Albany, New York

Analyzing the Role of Low-Level Forcing in Significant Severe Weather Outbreaks in the Eastern U.S.
Joseph E. Cebulko
NOAA/NWS Weather Forecast Office, Albany, New York

<u>Session H – Severe Weather II</u> (3:05 pm to 4:45 pm)

3:05 pm
Widespread Damaging Wind Severe Thunderstorm Event of 4 May 2018 across the NWS Albany, NY County Warning Area
Christina Speciale
NOAA/NWS Weather Forecast Office, Albany, New York

3:25 pm
Improving Tornado Detection and Lead Time:
The July/August Tornadoes of 2018 in Southern New England
Joseph W. DelliCarpini
NOAA/NWS Weather Forecast Office, Boston/Norton, Massachusetts

3:45 pm
Correlating Trends in Flash Extent Density to Tornadogenesis for Supercells in the Northeastern United States
Michael L. Jurewicz, Sr.
NOAA/NWS Weather Forecast Office, Binghamton, New York

4:05 pm
Albany Forecast Area Significant Hail Climatology and Case Studies
Thomas A. Wasula
NOAA/NWS Weather Forecast Office, Albany, New York

4:25 pm
Examining Terrain Effects on the 31 May 1998 Mechanicville, New York Supercell
Luke LeBel
Department of Atmospheric and Environmental Sciences
University at Albany, State University of New York, Albany, New York

4:45 pm – Wrap Up/Adjourn
Joseph P. Villani

NROW XX is scheduled November 6–7, 2019