

**Agenda**  
**Northeast Regional Operational Workshop XI**  
**Albany, New York**  
**Wednesday, November 4, 2009**

**7:50 am**

**Welcoming Remarks**

Eugene P. Auciello, Meteorologist In Charge  
Warren R. Snyder, Science & Operations Officer  
National Weather Service, Albany, New York

**Conference Chairs**

Steve R. DiRienzo  
Senior Service Hydrologist, National Weather Service, Albany, New York

Warren R. Snyder  
Science & Operations Officer, National Weather Service, Albany, New York

**Session A – Warm Season Topics / Convection**

**8:00 am**

**Southerly or “Reverse Mohawk-Hudson Convergence Cases”**

Hugh W. Johnson and Kim Sutkevich  
NOAA/NWS Weather Forecast Office Albany, New York

**8:15 am**

**Preparing for a Change in Severe Hail Warning Criteria in 2010**

Brian J. Frugis  
NOAA/NWS Weather Forecast Office Albany, New York

**8:30 am**

**Issues Associated with Transitioning to a New Severe Hail Criteria**

**Matthew Steinbugl**  
NOAA/NWS Weather Forecast Office, State College, Pennsylvania

**8:50 am**

**Predicting Severe Hail in the WFO LWX County Warning Area: Toward Increased Accuracy in Hail Size Forecasts**

Matthew R. Kramar  
NOAA/NWS Weather Forecast Office, Sterling, Virginia

**9:10 am**

**The Impact of the St. Lawrence Valley on the Precipitation Distribution of Hurricanes Katrina and Rita (2005)**

Eyad Atallah

McGill University, Montreal, Quebec, Canada

**9:30 am**

**Reanalysis of Southern New England Tornadoes to Improve Warning Verification**

Joseph W. DelliCarpini

NOAA/NWS Weather Forecast Office, Taunton, Massachusetts

**9:50 am**

**Evaluation and Response to the Northern and Downeast Maine Tornado Events of 2009**

Todd Lericos

NOAA/NWS Weather Forecast Office, Caribou, Maine

**10:10 am**

**Break**

Refreshments available for sale by the Capital Region Chapter of the AMS

**Session B – Cool Season Topics /Winter Weather**

**10:30 am**

**HPC Winter Weather Desk Operations and Upcoming NCEP Model Changes**

Dan Petersen

NOAA/NWS Hydrometeorological Prediction Center, Camp Springs, Maryland

**10:50 am**

**Far Upstream Precursors of Early-Season Cold-Air Outbreaks over the Northeast United States**

Jason M. Cordeira

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

**11:10 am**

**Improving Forecasts for High Impact Sub-Advisory Snow Squalls**

David Nicosia

NOAA/NWS Weather Forecast Office, Binghamton, New York

**11:30 am**

**Planetary and Synoptic Analysis of Freezing Rain Events in Montreal, Quebec**

Gina M. Ressler

Department of Atmospheric and Oceanic Sciences, McGill University, Montreal, Quebec, Canada

**11:50 pm**

**Use of a Historical Analog-Based Winter Storm Guidance Package for Forecasting a Central New York Snow Event**

Michael Evans

NOAA/NWS Weather Forecast Office, Binghamton, New York

**12:10 pm**

**Lunch**

**Session- C Keynote Presentation**

Introduction – Warren R. Snyder

**1:30 pm**

**Volcanic Eruptions and Climate: Comparing Climatic Response to Low and High Latitude Volcanic Eruptions, and Are They a Good Analog for Geoengineering?**

Alan Robock

Department of Environmental Sciences, Rutgers University, New Brunswick, New Jersey

**3:00 pm**

**Question & Answer Session**

**3:15 pm**

**Break**

Refreshments available for sale by the Capital Region Chapter of the AMS

**Session D – Hydrology and Heavy Rain Events**

**3:30 pm**

**Application of Forecast Verification Science to Operational River Forecasting in the National Weather Service**

Julie Demargne

NOAA/NWS Office of Hydrologic Development, Silver Spring, Maryland

**4:00 pm**

**Ice Jams on the Lower Mohawk River**

John I. Garver

Geology Department, Union College, Schenectady, New York

**4:20 pm**

**Simulating River Ice Thickness to Provide Advance Notification of Breakup Ice Jam Potential to Emergency Managers**

Stephen N. DiRienzo

NOAA/NWS Weather Forecast Office, Albany, New York

**4:40 pm**

**Ice Jam History, Ice Jam Mitigation Training and Ice Mitigation Efforts in WFO Albany's Hydrologic Service Area (HSA)**

John S. Quinlan

NOAA/NWS Weather Forecast Office, Albany, New York

**4:55 pm**

**Implementation of the Community Hydrologic Prediction System at the Northeast River Forecast Center**

David R. Vallee

NOAA/NWS Northeast River Forecast Center, Taunton, Massachusetts

**5:20 pm**

**A Review of the Precipitation Distribution Associated with the TROWAL and its Application to a New England QPF Event.**

Frank M. Nocera

NOAA/NWS Weather Forecast Office, Taunton, Massachusetts

**5:40 pm**

**An Overview of an Unprecedented Flash Flood Event in Western New York**

David Zaff

NOAA/NWS Weather Forecast Office, Buffalo, New York

**6:00 pm**

**Adjourn**

**Agenda**  
**Northeast Regional Operational Workshop XI**  
**Albany, New York**  
**Thursday, November 5, 2009**

**Session E – General Session**

**8:00 am**

**The Influence of Upper-Level Sub-Synoptic Scale Potential Vorticity Disturbances on Severe Weather in the Southwestern United States**

Scott Sukup and Tim Melino

Department of Atmospheric and Environmental Sciences

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

**8:20 am**

**The Impact of Recurving Western North Pacific Typhoons on the Large-Scale Flow Pattern over North America**

Heather M. Archambault

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

**8:40 am**

**Decision Support Services for High Profile Events**

Brandon Smith

NOAA/NWS Weather Forecast Office, Upton, New York

**Session F – Modeling and Ensemble Forecasting**

**9:00 am**

**1. Lessons in Predictability: The Post Groundhog Day 2009 Storm**

**2. Lessons in Predictability: Part 2 - The March 2009 “Megastorm”**

Neil A. Stuart

NOAA/NWS Weather Forecast Office, Albany, New York

**9:30 am**

**Towards an Ensemble Forecast Air Quality System for New York State**

Michael Erickson

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

**9:50 am**

**Meteorological Evolution and Model Performance for Fire Threat Days Over the Northeast U.S.**

Joseph Pollina

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

NOAA/NWS Weather Forecast Office, Upton, New York

**10:10 am**

**Evaluation of a Multi-Model Storm Surge Ensemble for the New York Metropolitan Region**

Brian A. Colle

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

**10:30 am**

**Developing Better Forecasts:**

**An Analysis of Two Storms During Summer 2009 Using the High Resolution WRF Model and Observations on July 7 and August 18**

E. Novakovskaia

IBM, Yorktown Heights, NY

**10:50 am**

**Break**

Refreshments available for sale by the Capital Region Chapter of the AMS

**Session G – CSTAR & Related Topics**

**11:10 am**

**A Climatology of Convective Types over the Northeast U.S: Ambient Conditions and the Role of the Appalachian Lee on Initiation**

Kelly Lombardo

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

**11:30 am**

**Wind Channeling in the St. Lawrence River Valley: Synoptic Patterns, Local Conditions, and Operational Forecasts**

Alissa Razy

Department of Atmospheric & Oceanic Sciences, McGill University, Montreal, Quebec, Canada

**11:50 am**

**Lunch**

**1:00 pm**

**Northeast Convective Flash Floods: Helping Forecasters Stay Ahead of Rising Water**

Joseph P. Villani

NOAA/NWS Weather Forecast Office, Albany, NY

**1:20 pm**

**The Northeast Convective Flash Flood Project:  
July 29<sup>th</sup> 2009 Flash Flood Case Study**

Derek V. Mallia

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

**1:40 pm**

**An Examination of the March 1-2, 2009 East Coast Gravity-Wave  
Using High-Resolution Operational Data Sets**

Alan M. Cope

NOAA/NWS Weather Forecast Office, Mount Holly, New Jersey

**2:00 pm**

**An Application of a Cutoff Low Forecaster Pattern Recognition Model to the 30  
June - 2 July 2009 Significant Event for the Northeast**

Thomas A. Wasula

NOAA/NWS Weather Forecast Office, Albany, New York

**2:20 pm**

**Analysis of Precipitation Distributions Associated with Two Cool-Season Cutoff  
Cyclones**

Melissa Payer

Department of Atmospheric and Environmental Sciences  
University at Albany, SUNY, Albany, New York

**2:40 pm**

**Break**

**3:00 pm**

**Cool-Season High Wind Events in the Northeast**

Jonas V. Asuma

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

**3:20 pm**

**Synoptic Environments Associated with Predecessor Rain Events in Advance of Landfalling Tropical Cyclones**

Benjamin J. Moore

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

**3:40 pm**

**A Comparison of Predecessor Rainfall Event Development with Tropical Cyclones Danny and Bill from the 2009 Season**

Michael L. Jurewicz, Sr.

NOAA/NWS Weather Forecast Office, Binghamton, NY

**4:00 pm**

**Predecessor Rain Events Ahead of TC Ike and TC Lowell on 11–14 September 2008**

Lance F. Bosart

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

**4:20 pm**

**Adjourn**

**6:30pm**

**CSTAR Dinner at Buca di Beppo Italian Restaurant**

**44 Wolf Road, Colonie, New York**

**NROW XII will be held November 3-4, 2010**