

22nd U.S./Canada Great Lakes Operational Meteorology Workshop

May 13-15, 2014

NOAA / Great Lakes Environmental Research Laboratory
Ann Arbor, MI

Tuesday May 13

745 am

Registration

810 am

Welcome and Announcements

820 am

Great Lakes Water Levels

Keith Kompoltowicz - *USACE Detroit District*

840 am

Great Lakes Ice and Climate: From Research to Forecast

Jia Wang - *NOAA / GLERL, Ann Arbor, MI*

900 am

Evaluation of Great Lakes Ice Model (GLIM) Real-time Ice Forecasts During the 2013-2014 Ice Season and an Introduction to the Great Lakes Ice Products Web Page

Jia Wang and Gregory Lang - *NOAA / GLERL Ann Arbor, MI*

Robert LaPlante and Christopher Mello - *NOAA / NWS Cleveland, OH*

David Radell - *NOAA / NWS Eastern Region Headquarters*

920 am

LIDAR-based measurements of wind characteristics within the marine boundary layer over Lake Michigan

Frank Marsik, Aline Cotel and Kyle Chudler - *University of Michigan, Ann Arbor, MI*

Neel Desai and Guy Meadows - *Michigan Technological University, Houghton, MI*

940 am

Break

1000 am

Beach Water Quality Forecasting: NOAA/GLERL & NOAA / NWS Chicago/Detroit

David Beachler - *NOAA / NWS Chicago, IL*

1020 am

Great Lakes Beach Hazards: A summation of efforts from WFO Grand Rapids

Bob Dukesherer - *NOAA / NWS Grand Rapids, MI*

1040 am

Sociological Factors Impacting Beach Attendance: Applications to Beach Hazards Risk Communication

Megan Dodson - *NOAA / NWS Marquette, MI*

1100 am

Meteorological Tsunamis in Great Lakes

Chin Wu and Adam Bechle - *University of Wisconsin-Madison, Madison, WI*

Eric Anderson - *NOAA / GLERL, Ann Arbor, MI*

David Schwab - *University of Michigan Water Center, Ann Arbor, MI*

1120 am

Evolving Marine Services in the Great Lakes

Michael Bardou and Eric Lenning - *NOAA / NWS Chicago, IL*

1140 am

Lunch

120 pm

Reconstructing the Great Storm of November 1913

Richard Wagenmaker and Greg Mann - *NOAA / NWS Detroit, MI*

140 pm

Bilateral Marine Forecast Collaboration Project

David Soroka - *NOAA / NWS OCWWS Marine Services, Silver Spring, MD*

200 pm

Using Fractional Lake Ice and Variable Ice Thickness in the WRF-ARW to improve Great Lakes Forecasting

Michael Dutter and Todd Kluber - *NOAA / NWS Marquette, MI*

220 pm

A Simple Algorithm for Comparing Winter Storm Severity Based on METAR Observations

Daniel Cobb - *NOAA / NWS Grand Rapids, MI*

240 pm

Predictability Horizons: Implications for Operational Forecasters

Justin Arnott - *NOAA / NWS Gaylord, MI*

Richard Grumm - *NOAA / NWS State College, PA*

300 pm

Break

320 pm

The December 8, 2013 Milwaukee, Wisconsin Lake-Effect Snow Band – High-Impact Weather Events Can Come In All Forms

James Wood - *NOAA / NWS Milwaukee, WI*

340 pm

Wintertime Mesoscale Vortices and Adjoining Single Bands over Lake Michigan

Sam Lashley - *NOAA / NWS North Webster, IN*

Jon Hitchcock - *NOAA / NWS Buffalo, NY*

400 pm

Diagnosis and Near-Term Forecasting of an Intense Mesoscale Snowband February 2nd, 2014

Nathan Marsili - *NOAA / NWS North Webster, IN*

420 pm

Towards a Simple Risk Based All-Hazards Warning Paradigm

Daniel Cobb - NOAA / NWS Grand Rapids, MI

440 pm

Stop Speaking to Ourselves: Using Plain English, Simple Graphics and Message Control to Build a Weather Ready Nation

James Maczko - NOAA / NWS Grand Rapids, MI

Wednesday May 14

815 am

Announcements

820 am

An Examination of two Near-Blizzard Events across Northern Indiana in January 2014

Amos Dodson and Sam Lashley - NOAA / NWS North Webster, IN

840 am

Southern Ontario Ice Storm: Nightmare Before Christmas

Stephen Knott - EC / OSPC Toronto, ON

900 am

Improving Lake Effect Snow Nowcasting and Quantitative Precipitation Estimation Using Synergistic Satellite and NEXRAD Products

Mark Kulie - Univ. of Wisconsin, Madison, WI

Joleen Feltz, Andi Walther, Michael Dutter, Steve Nesbitt, Ralf Bennartz, and Andrew Heidinger

920 am

Improving the Quantitative Precipitation Estimate for Dual Polarization Hydrometeors Classified as Dry Snow

Kirk Apfel, Aaron Reynolds and David Zaff - NOAA / NWS Buffalo, NY

940 am

The 20-21 February Lake Enhanced Snow Event in Northern Lower Michigan: Forecast Challenges

Michael Boguth, David Lawrence, Brian Adam, and Justin Arnott - NOAA / NWS Gaylord, MI

1000 am

Break

1020 am

Proposed Changes in the Winter Weather Forecasts at the Weather Prediction Center (WPC), and New Experimental Forecasts

Dan Petersen - NOAA / NWS/NCEP Weather Prediction Center, College Park, MD

1040 am

A Brief and Preliminary Summary of the Winter of 2013-2014 Across the Far Western Great Lakes Region

Linda Engebretson - NOAA / NWS Duluth, MN

1100 am

A Study of Great Lakes Effects on Cold Season Synoptic Processes Using WRF Comparison Experiments

Chuliang Xiao - *CILER, University of Michigan, Ann Arbor, MI*
Brent Lofgren - *NOAA / GLERL, Ann Arbor, MI*

1120 am

Moisture Laden Inversions: Implications for Lake Induced Stratocumulus

Cory Behnke - *NOAA / NWS Detroit, MI*

1140 am

Lunch

120 pm

Revisiting the Joplin Tornado: Examining the Effectiveness of the Warning System

Richard Wagenmaker - *NOAA / NWS Detroit, MI*
Justin Weaver - *NOAA / NWS Lubbock, TX*

140 pm

An Evaluation of Mortality Rates Within the Path of Well-Warned Significant Tornadoes

Joseph Clark and Richard Wagenmaker - *NOAA / NWS Detroit, MI*

200 pm

A Preliminary Environmental and Radar Overview of a Rare Early Morning QLCS Tornado Outbreak in East-Central Wisconsin on 7 August 2013

Eugene Brusky, Mike Cellitti, Ashley Wolf, Scott Berschback - *NOAA / NWS Green Bay, WI*
Ed Townsend - *NOAA / NWS Milwaukee, WI*

220 pm

QLCS Mesovortex Dual-Polarization Debris Signatures Associated with the 7 August 2013 Tornadic QLCS

Ed Townsend - *NOAA / NWS Milwaukee, WI*
Eugene Brusky and Ashley Wolf - *NOAA / NWS Green Bay, WI*

240 pm

Analysis of the Devastating Cold Season November 17, 2013 Washington Tornado

Ed Shimon - *NOAA / NWS Lincoln, IL*

300 pm

The Tornado Outbreak of 17 November 2013

Jeff Logsdon, Courtney Oberfell and Todd Holsten - *NOAA / NWS North Webster, IN*

320 pm

Break

340 pm

Diagnosing EF-Scale Potential Using Conditional Tornado Probabilities

Richard Wagenmaker and Greg Mann - *NOAA / NWS Detroit, MI*

400 pm

Two Cases of Tornadic Wind Estimation and Implications for Impact Based Warnings

T.J. Turnage and Jared Maples - *NOAA / NWS Grand Rapids, MI*

420 pm

The Use of GOES 7.4 μm Sounder Imagery for Severe Weather Detection: 2012 and 2013 Northeastern U.S. Examples

Christopher Gitro - NOAA / NWS Binghamton, NY

440 pm

Avoiding Large, Sparsely Verified Severe Thunderstorm Warnings

Eric Lenning and Ben Deubelbeiss - NOAA / NWS Chicago, IL

500 pm

A National Weather Service Conundrum: Balancing Innovation and Standardization

Joshua Scheck - NOAA / NWS Central Region, Scientific Services, Kansas City, MO

Thursday May 15

810 am

Announcements

820 am

Configuring AWIPS to Include Decision Support Events in Warnings

Phillip Kurimski - NOAA / NWS Detroit, MI

Evan Bookbinder - NOAA / NWS Kansas City, MO

840 am

Using GIS to enhance impact-based weather warnings

Evan Webb - NOAA / NWS Grand Rapids, MI

900 am

Examining the land-lake-atmosphere interactions of the May 5, 2003 severe weather event over southwest Michigan

David Wright and Derek Posselt - University of Michigan, Ann Arbor, MI

Greg Mann - NOAA / NWS Detroit, MI

920 am

A historical-analog-based severe weather checklist for central New York and northeast Pennsylvania

Michael Evans and Ron Murphy - NOAA / NWS Binghamton, NY

940 am

Analysis of Northwest Flow Severe Weather Events Over North Central Upper Michigan

Justin Titus - NOAA / NWS Marquette, MI

1000 am

Break

1020 am

The Utility of Considering Dual-Polarization Radar Signatures in the Tornado Warning Process

Michael L. Jurewicz, Sr. and Christopher Gitro - NOAA / NWS, Binghamton, NY

1040 am

An Overview of the 31 May-1 June 2013 Heavy Rain/Flash Flood Event across Northern Indiana

Nick Greenawalt - NOAA / NWS North Webster, IN

1100 am

A Look Back at the Historic July 28, 1949 Marquette County Flood

Steven Fleegel and Michael Dutter - NOAA / NWS Marquette, MI

1120 am

Environment Canada and the TORONTO 2015 Pan Am / Parapan Am Games (TO2015)

Arnold Ashton - EC/OSPC Toronto, ON

1140 am

Learning Social Media at NWSFO Grand Rapids

Ernest Ostuno - NOAA / NWS Grand Rapids, MI

1200 pm

Award Presentation

Future Site Considerations

Adjourn