17th Annual U.S./Canada Great Lakes Operational Meteorology Workshop

Ann Arbor, Michigan

October 8-10, 2008

Agenda

Wednesday October 8

8:00 am Welcome and Announcements

Session 1: Great Lakes Multi-Disciplinary Activities
805 am – 1000 am

Great Lakes Water Levels
Keith Kompoltowicz – U.S. Army Corp of Engineers, Detroit District

Lake Environment Influences on Air Quality in Southern Ontario Case Study: Sept 2-3 2008
Sarah Wong – Environment Canada

Beach Quality Forecasting in the Great Lakes using Nearshore Hydrodynamic Models
David Schwab – NOAA/GLERL, Ann Arbor, Michigan
Richard Wagenmaker – NOAA/NWS Detroit, Michigan

NOAA Collaboration Activities in the Great Lakes
Richard Wagenmaker – NOAA/NWS Detroit, Michigan

Break 1000 am – 1015 am

Session 2: Great Lakes Marine Weather
1015 am – 1145 am

Forced Channeling in the Champlain Valley and Impacts to Marine Forecasting on Lake Champlain
John Goff – NOAA/NWS Burlington, Vermont

A Sensitivity Study on the NOAA/GLERL Wind Wave Model used in the Graphical Forecast Editor
David Zaff and Keith Jaszka – NOAA/NWS Buffalo, New York

Water Temperature and Stability Behavior for Lake(s) Michigan and Huron
Cory Behnke – NOAA/NWS Detroit, Michigan

Lunch 1145 am - 100 pm

Session 2: Great Lakes Marine Weather (continued)
100 pm – 200 pm

The Early Season Lake Michigan Waterspout Event of August 7th, 2008
Nathan Jeruzel – NOAA/NWS Grand Rapids, Michigan

Some Preliminary Thoughts on the Great Lakes Surf Zone Forecast
Dan Miller – NOAA/NWS Duluth, Minnesota

Session 3: Heavy Snow and Lake Effect Snow Forecasting
200 pm – 515 pm

A Comparison of Heavy Snowfall Forecast Techniques
T.J. Turnage – NOAA/NWS Grand Rapids, Michigan

Synoptic and Mesoscale Factors Contributing to Heavy Snowfall across Northern Illinois on February 6th, 2008
Nathan Marsili – NOAA/NWS Chicago, Illinois

Break 300 pm - 315 pm

The Lake Snow Parameter
Bruce Smith and John Boris – NOAA/NWS Gaylord, Michigan

A Method to Reliably Predict Convective Modes in Lake-Effect Snow Events (Updated Results)
Michael Jurewicz – NOAA/NWS Binghamton, New York

Simulating Lake Effect Snow with the WRF: Sensitivity to Model Configurations and Great Lake Water Temperatures
Robert LaPlante and Daniel Leins – NOAA/NWS Cleveland, Ohio

Northeast Regional Ensemble Simulations of the 10 February 2008 Lake Effect Snow Event: WRF Wind Biases and their Implications on Forecasted Snow Band Position
Justin Arnott and Michael Evans – NOAA/NWS Binghamton, New York

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Thursday October 9

<u>Session 4: Severe Convection/Operations</u>
800 am – 1145 am

The IRIS Project
Eric Lenning – NOAA/NWS Chicago, Illinois

The Influence of Synoptic Forcing on Convective Morphology: An Observational Analysis
Melissa Schumann and Paul Roebber – University of Wisconsin-Milwaukee

Predictability of the 7 January 2008 Northern Illinois and Southeast Wisconsin Tornadoes
Gino Izzi, Mark Ratzer, and Matthew Wojtowicz – NOAA/NWS Chicago, Illinois

A Rare Winter Derecho in Western New York – the Anomalous Convection of January 9, 2008
Robert Hamilton – NOAA/NWS Buffalo, New York

Break 1000 am – 1015 am

Northern Indiana/Northwest Ohio Damaging Wind Event of June 22, 2006
Jeff Logsdon – NOAA/NWS Northern Indiana

The July 19, 2007 Southern Michigan Severe Wind Event
Steve Considine and Bryan Tilley – NOAA/NWS Detroit, Michigan

The Northern Michigan Tornado Outbreak of 18 October 2007
John Boris – NOAA/NWS Gaylord, Michigan

Lunch 1145 am – 100 pm

<u>Session 4: Severe Convection/Operations (continued)</u>
100 pm – 300 pm

The June 8, 2008 West Branch Severe Weather Event
Mike Boguth and Brian Adam – NOAA/NWS Gaylord, Michigan

Accuracy of a WRF Mesoscale Model Simulation of the 12 June 2001 Mesoscale Convective System
Brandon Hoving – NOAA/NWS Grand Rapids, Michigan
Martin Baxter – Central Michigan University

An Examination of a Persistent Gravity Wave Event across Upper Michigan – 12-13 June 2008
Mike Dutter – NOAA/NWS Marquette, Michigan

Aircraft Data in UNSTABLE 2008
Patrick King – Ontario Storm Prediction Center

Break 300 pm – 315 pm

<u>Session 5: Climatology/Historical Weather in the Great Lakes</u>
315 pm – 515 pm

Causes of Quasi-Periodic Cycles in Levels of Lakes Michigan and Huron
Janel Hanrahan, Sergey Kravtsov and Paul Roebber – University of Wisconsin-Milwaukee

The Effects of Urbanization on the Local Weather and Climate of Chicago, Illinois
Kate Smith and Paul Roebber – University of Wisconsin-Milwaukee

Investigating an Historic Weather Event: The April 3, 1956 Tornado Outbreak in West Michigan
Ernie Ostuno – NOAA/NWS Grand Rapids, Michigan

Refining the "Normal Daily Temperature"
William Marino – NOAA/NWS Grand Rapids, Michigan

Friday October 10

<u>Session 5: Climatology/Historical Weather in the Great Lakes (continued)</u>
800 am - 830 am

Thunderstorm Climatology for Selected Sites in Upper Michigan
Jason Alumbaugh – NOAA/NWS Marquette, Michigan

<u>Session 6: Great Lakes Flash Floods</u>
830 am – 1000 am

The June 19, 2007 Delaware County Flash Flood: A Meteorological Analysis
Mike Evans – NOAA/NWS Binghamton, New York

An Examination of the Manistee Flash Flood Event of 12-13 June 2008
Mike Cellitti – NOAA/NWS Gaylord, Michigan

Analysis of a Terrain Enhanced Heavy Precipitation Event across Upper Michigan
David Pearson – NOAA/NWS Marquette, Michigan

Break 1000 am – 1015 am

<u>Session 7: Great Lakes Aviation Forecasting</u>
1015 am – 1115 am

Cleared for Takeoff: Aviation Forecast Operations
Mike Bardou – NOAA/NWS Chanhassen, Minnesota

Using High Resolution Time-Lagged Ensembles
Greg Mann – NOAA/NWS Detroit, Michigan

<u>Wrap-up</u>
1115 am – 1130 am

Brian Murphy Award Presentation

Corrections, Retractions and Apologies

Toronto 2009

1130 am Adjourn