

Agenda

Tuesday, October 7, 2008 – Afternoon Session

- Session I Theoretical Applications and New Techniques**
Co-Chairs: Keith Meier and Kurt Hooley – NWS Billings, MT
- 1:00 **Opening Remarks**
Keith Meier – NWS Billings, MT
Steve Apfel – NWS Glasgow, MT
- 1:05 **Looking Over the Horizon**
- Western Region MIC Perspective**
Keith Meier – NWS Billings, MT
- NWS Corporate Board Perspective**
Mark Tew – NWS Western Region Deputy Director – Salt Lake City, UT
- 1:20 **Bias Correction of Forecast Near Surface Variables**
David Stensrud – NOAA/NSSL – Norman, OK
- 2:20 **Break**
- 2:30 **Some Applications of Indices to Forecasting**
Matthew Bunkers – NWS Rapid City, SD
- 2:50 **A Probabilistic Approach to Forecasting Wind Gusts**
Ryan Knutsvig, Richard Arkell, and Ben Beubelbeiss – NWS Elko, NV
- 3:10 **Using a Local Wind Technique with the March 24th, 2008 High Wind Event**
Ted Jamba – NWS Glasgow, MT
- 3:30 **Break**
- 3:40 **Panel Discussion on NWS Collaboration Policies and High Impact Events**
Moderator: Bill Martin – NWS Glasgow, MT
Panelists: Keith Meier – NWS Billings, MT
 Steve Apfel – NWS Glasgow, MT
 Brian Waranauskas – NWS Great Falls, MT
 Todd Hamilton – NWS Bismarck, ND
- 5:00 **Adjourn**

Agenda

Wednesday, October 8, 2008 – Morning Session

- Session II Numerical Modeling and Applications**
Chair: Bill Rasch – NWS Billings, MT
- 8:00 **Mesoscale Modeling at NCEP: Where We Are and Where We're Going**
Geoff DiMego – NCEP Environmental Modeling Center – Camp Springs, MD
- 9:00 **Break**
- 9:20 **Utilizing the Weather Research and Forecast (WRF) Model at High Resolution to Enhance Weather Forecasts in Western and Central Wyoming**
Brett McDonald – NWS Riverton, WY
- 9:40 **A Comparison of the Northern Rockies Mesoscale Model with Regional Observations**
Don Morton – Arctic Region Supercomputing Center/University of Montana – Missoula, MT
Mark Loeffelbein – NWS Missoula, MT
Eugene Petrescu – NWS Anchorage, AK
- 10:00 **Using RUC Model Potential Vorticity (PV) Fields to Improve Short Term Forecasts of Snowfall Amounts**
Ben Schott – NWS Great Falls, MT
- 10:20 **Break**
- Session III New Observing Systems and Severe Weather Studies**
Co-Chairs: Bill Martin – NWS Glasgow, MT
 Brienne Vogt – NWS Billings, MT
- 10:40 **Dual Polarization – The Forthcoming Formidable Asset on the NWS Radars**
Dusan Zrnić – NOAA/NSSL – Norman, OK
- 11:40 **Lunch**

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Wednesday, October 8, 2008 – Afternoon Session

- 1:00 **An Analysis of the 4 July 2008 Central Montana Severe Weather Outbreak: Synoptic and Mesoscale Set-Up and NWS Great Falls Operations**
Brian Waranauskas – NWS Great Falls, MT
Ariel Cohen – National Hurricane Center – Miami, FL
- 1:30 **Nowcasting Severe Downbursts Over Mountainous Terrain, A Case Study**
Tom Renwick – NWS Pocatello, ID
- 1:50 **Break**
- 2:10 **A Look At Some Interesting Aspects of the 6 July 2008 Convective Event over Southeast Montana**
Don Moore, Albert Richmond and Brian Tesar – NWS Billings, MT
- 2:30 **An Investigation of High Lightning Frequency Events across WFO Billings County Warning Area**
Brian Tesar and Don Moore – NWS Billings, MT
- 2:50 **A Historical Reanalysis of the Regina Cyclone**
Andrew Zimmerman and Bill Martin – NWS Glasgow, MT
- 3:10 **Strong Downslope Wind Storm – 12 November 2007**
Todd Chambers and William Rasch – NWS Billings, MT
- 3:30 **Break**
- 3:50 **Poster Session – See Next Page for List of Posters**
- 5:00 **Adjourn**

12th Annual Great Divide Workshop Banquet
Billings Crowne Plaza Hotel – Skyview Room – 20th Floor

5:30 – Social Hour (Cash Bar Available)

6:30 – Banquet

Key Note Speaker: Ron Johnson
Gallatin National Forecast Avalanche Center – Bozeman, MT

Agenda

Poster Session Participants

The Local WRF Ensemble Configurations at the NWS Elko, NV

Ryan Knutsvig and Jeff Rood – NWS Elko, NV

Polarimetric Radar and Aircraft Observations of Convective Storms in Central Oklahoma

Darren Clabo – South Dakota School of Mines and Technology – Rapid City, SD

Montana Severe Weather Climatology Using Geographic Information System and Google Earth

David Bernhardt – NWS Great Falls, MT

Ariel Cohen – National Hurricane Center – Miami, FL

NWS WFO Billings Montana/Gallatin National Forest Avalanche Center Partnership

Kurt Hooley – NWS Billings, MT

Cold Air Outbreaks in Montana

Daniel Zumpfe – NWS Great Falls, MT

Is Guidance Too Dry?

John Blank – NWS Great Falls, MT

Forecasting Hail in the Desert Southwest

Stanley Czyzyk – NWS Las Vegas, NV

An Operational Assessment of the MODIS False Color Composite with the Great Falls, Montana National Weather Service

Dave Bernhardt and Gina Loss – NWS Great Falls, MT

Kevin K. Fuell – SPoRT/UAH – Huntsville, AL

Geoffrey T. Stano – SPoRT/ENSCO – Huntsville, AL

Development of a Cold Weather Newborn Calf Warning System

Tanja Fransen, Bill Martin and Don Simonsen – NWS Glasgow, MT

Dr. Larry Kalkstein – University of Miami – Miami, FL

Dr. Katrina Frank – University of Delaware – Newark, DE

Agenda

Thursday, October 9, 2008 – Morning Session

- Session IV Forecasting and Cold Event Studies**
Co-Chairs: Bill Martin and Ted Jamba – NWS Glasgow, MT
- 8:00 **Mechanisms of Frontogenesis over the Intermountain West**
Gregory L. West, W. James Steenburgh, and Colby R. Neuman
University of Utah – Salt Lake City, UT
- 9:00 **Break**
- 9:10 **Convective Snow Banding Over North Central Montana**
Robert Hoenisch – NWS Great Falls, MT
- 9:30 **A Rare Heavy Snow Event across Eastern Washington and North-Central Idaho**
Stephen Bodnar – NWS Spokane, WA
- 9:50 **Arctic Surface Cold Fronts in Montana**
Daniel Zumpfe – NWS Great Falls, MT
- 10:10 **Break**
- 10:20 **A Preliminary Study of Cold Air Damming along the Washington Cascades**
Ronald Miller – NWS Spokane, WA
- 10:40 **Shifting the Focus: Forecast Techniques and Aids for High Impact Events**
Matt Solum and William Rasch – NWS Billings, MT
- 11:00 **Surface Conditions Associated With Freezing Rain Events across Southeast Montana**
Don Moore – NWS Billings, MT
- 11:20 **What's New and Improved for Winter Weather AWOC?**
Julie L. Adolphson – NWS Pleasant Hill/Kansas City, MO
James G. LaDue and Bradford N. Grant – NOAA/WDTB – Norman, OK
- 11:40 **Lunch**

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Thursday, October 9, 2008 – Afternoon Session

- Session V Operations, Warnings, and Climate**
Chair: Matt Solum – NWS Billings, MT
- 1:00 **Progress in the Movements that are Bringing Societal Impacts into the National Weather Service**
Eve Gruntfest – University of Colorado – Colorado Springs, CO
- 2:00 **Break**
- 2:10 **A Study Of Heavy Snow Cases and Their Spatial Distributions In Sheridan County, Wyoming**
Joe Lester – NWS Billings, MT
- 2:30 **An Objective Method for Verifying Red Flag Warnings due to Dry Lightning**
Richard Arkell and Ryan Knutsvig – NWS Elko, NV
- 2:50 **Unique Support Aspects of the 2007 Castle Rock Wildfire**
Brian Waranauskas – NWS Great Falls, MT
- 3:20 **Break**
- 3:40 **The Climatology of Variability**
Bill Martin – NWS Glasgow, MT
- 4:00 **The Use of Climatology to Improve the Forecasting of Probability of Precipitation**
Ken Pomeroy – NWS/WRH – Salt Lake City, UT
- 4:20 **MOS PoP Reliability Data in GFE**
William Rasch – NWS Billings, MT
- 4:40 **What Can HPC Do for the WFO? – Observations from a Visit to HPC**
Todd Hamilton – NWS Bismarck, ND
- 5:00 **Adjourn**