

Pacific Northwest Weather Workshop – 2015

February 27-28, 2015
Building 9 Auditorium
NOAA Western Regional Center
7600 Sand Point Way, Seattle, WA 98115

Preliminary Agenda (Subject to Amendment)

Friday, 28 February

12:00-1:00 Registration
1:00-1:15 **Welcome and Workshop Plans**
Ted Buehner, Acting MIC, NOAA/NWS WFO Seattle

Session I: Oso (SR-30) Landslide: Meteorology and Response

1:15-1:30 **Overview of the SR- 530 Slide Event and Session.** Ted Buehner, National Weather Service, Seattle
1:30-1:45 **Geology of SR-530 slide**
1:45-2:00 **Hydrology of the North Fork Stillaguamish River in Response to the State Route 530 Landslide,** Brent Bower, National Weather Service, Seattle
Science Collaboration During the State Route 530 Landslide Response and Recovery. Brent Bower. National Weather Service, Seattle.
2:00-2:15 **USGS Washington Water Science Center Response to the SR530 Landslide.** Mark Mastin. US Geological Survey, Washington Water Science Center
2:15-2:30 **Incident Meteorologist Support of the SR-530 Slide Recovery**
Andy Haner. National Weather Service

2:30-3:00 Coffee Break (poster viewing as well)

3:00-3:15 **SR- 530 Slide Response and Recovery – The Emergency Management Perspective.** Heather Kelly. Snohomish County Executive's Office

Session II: Olympex and Mountain Observations

3:15-3:45 **OLYMPEX: A Ground Validation Field Campaign for the Global Precipitation Measurement (GPM) Mission on the Olympic Peninsula in the Pacific Northwest.** McMurdie, L., R. A. Houze, Jr., J. Lundquist, C. Mass, W. Petersen and M. Schwaller. Dr. Lynn McMurdie, University of Washington
3:45-4:00 **Preparing for the OLYMPEX Field Campaign: Challenges of observing heavy rain and snow in remote regions of the Olympic Mountains.** Joe Zagrodnik, University of Washington.
4:00-4:15 **Urban and Flash Flooding of the January 5, 2015 Storm in Western Washington.** Brent Bower. National Weather Service, Seattle

6:00-9:00 Workshop Banquet at the Talaris Conference Center

4000 NE 41st St, Seattle, WA 98105

Banquet Speaker: John E. Pennington, M.A., Director

Snohomish County Department of Emergency Management (DEM)

Topic: The March 2014 Catastrophic Landslide and Flooding Disaster (SR530 near Oso, Washington) Reflections and the Path Forward

6:00-7:00 PM Icebreaker – no host bar
7:00-8:00 Buffet Dinner
7:45-8:30 Presentation

Saturday, March 1

9:00-9:15 **Network-Wide Systematic Bias in SNOTEL Temperature**

Observations. Jared W. Oyler^{1,2}, Solomon Z. Dobrowski¹, Ashley P. Ballantyne^{1,2}, Anna E. Klene³, Steven W. Running¹, Randall Julander⁴, Phil Morrissey⁴, Tony Tolsdorf⁴, Brian Domonkos⁴. College of Forestry and Conservation, University of Montana, ²Montana Climate Office, University of Montana, ³Department of Geography, University of Montana, ⁴U.S. Department of Agriculture Natural Resources Conservation Service

Session III: Weather Prediction: Modeling and Communication

9:15-9:30: **Update on the NW Mesoscale Modeling System.** Cliff Mass, University of Washington.

9:30-9:45 **High Resolution NWP for the Canadian Arctic.** Banafsheh Afshar, Greg West, Rosie Howard, Henryk Modzelewski, Roland Stull. University of British Columbia (UBC)

9:45-10:00 **Operational Status of the UBC Weather Forecast Research Team NWP Model Suite.** David Siuta, Henryk Modzelewski, Zhiying Li, Roland Schigas, Roland Stull. University of British Columbia

10:00-10:15 **The art of parenting – Accumulated absolute error analysis.** Zhiying Li and Roland Stull, University of British Columbia.

10:15-10:45 Coffee Break

10:45-11:00 **Improving Snow level Forecasts from Canadian Operational Numerical.** Mindy Brugman, Trevor Smith, Chris Emond, Aaron Chen, Jim Goosen, Matt Loney, Brad Snyder, Allan Coldwells, Byeong Kim Serena Su and Doug Simpson, Pacific Storm Prediction Center and Coastal and Mountain Meteorology National Lab, MSC, Vancouver, BC

11:00-11:15 **Anticipating Significant Precipitation Events Using an M-Climate Approach**

Dr. Trevor Alcott, National Weather Service - Western Region Headquarters

Session IV: Fire weather

11:15-11:30 **Improvements in Operational Smoke Forecasting for Western Canada**
Roland Schigas, Rosie Howard, Roland Stull University of British Columbia, Vancouver, Canada

11:30-11:45 **Exchange Trip with the Australian Bureau of Meteorology**
Andy Haner, National Weather Service

11:45-12:00 **Lightning that Sparked the Carlton Complex Fire from a Historical Perspective** N.A. Bond and K.A. Bumbaco. University of Washington/JISAO & Office of Washington State Climatologist

12:00-1:15 Lunch

Session V: Northwest Weather and Climate

1:15-1:30 **Seasonal Effects on the Frequency of Tree and Branch Failures in the Lower Mainland of British Columbia.** Wolf Read, University of British Columbia – Forest and Conservation Sciences

1:30-1:45 **Rich Weather Information for Media Poor Communities.** Joel Myer, Mason County PUD

1:45-2:00 **The Top Weather and Climate Events of 2014.** Karin Bumbaco and Nick Bond. Office of the Washington State Climatologist

2:00-2:15 **Impacts of Varying Wind and Stability Regimes on Idealized Atmospheric River Precipitation Distribution in the Pacific Northwest.** Lee Picard and Cliff Mass, Dept. of Atmospheric Sciences, Univ. of Washington

2:15-2:30 **Changes in regional wind and temperature distributions under anthropogenic global warming.** Matt Brewer and Cliff Mass, UW

2:30-2:45 **The Anomalous Closed Low Patterns Responsible for the Severe Weather Outbreaks in Eastern Washington and Eastern Oregon on July 2012 and September 2013.** Douglas Weber and Mary C. Wister. National Weather Service Forecast Office, Pendleton

2:45-3:00 **Weather Review 2014-15 : Satellite animation with highlights, set to music.** Mindy Brugman

3:00 Closing remarks

Poster:

Benefits of using the High Resolution Deterministic Prediction System for coastal British Columbia. Camilly Wong, CMAC-West, MSC