

Publications and Presentations
Brian Blaylock

1. Refereed journal articles including refereed conference proceedings

Blaylock B., J. Horel, and C. Galli, 2018: High-Resolution Rapid Refresh Model Data Analytics Derived on the Open Science Grid to Assist Wildfire Weather Assessment. *Journal Atmospheric and Oceanic Technology*, **35**, 2213-2227, <https://doi.org/10.1175/JTECH-D-18-0073.1>.

Blaylock B., J. Horel, and S. Liston, 2017: Cloud Archiving and Data Mining of High-Resolution Rapid Refresh Model Output. *Computers and Geosciences*. **109**, 43-50, <https://doi.org/10.1016/j.cageo.2017.08.005>.

Blaylock B., J. Horel, and E. Crosman, 2017: Impact of a Lake Breeze on Summer Ozone Concentrations in the Salt Lake Valley. *Journal of Applied Meteorology and Climatology*, **56**, 353-370, <https://doi.org/10.1175/JAMC-D-16-0216.1>.

Horel, J., E. Crosman, A. Jacques, B. Blaylock, S. Arens, A. Long, J. Sohl, and R. Martin, 2016: Summer ozone concentrations in the vicinity of the Great Salt Lake. *Atmospheric Science Letters*, **17**, 480-486, <https://doi.org/10.1002/asl.680>.

2. Non-refereed articles, including books/book chapters, proceedings, technical reports

Blaylock B. and J. Horel, 2017: Efficient Storage and Data Mining of Atmospheric Model Output Using the CHPC Pando Archive. *Center for High-Performance Computing Spring Newsletter*. <https://www.chpc.utah.edu/news/newsletters/CHPC%20Newsletter%20-%20Spring%202017.pdf>.

3. Patents

None

4. Presentations

Blaylock B., 2019: High-Resolution Rapid Refresh Model Data Analytics for Wildland Fire Weather Assessment. Guest seminar. Naval Research Laboratory. Monterey, California.

Blaylock B., J. Horel, C. Galli, 2019: High-Resolution Rapid Refresh Model Data Analytics Derived on the Open Science Grid to Assist Wildfire Weather Assessment. *35th Conference on Environmental Information Processing Technologies*. Phoenix, Arizona.

Blaylock B., J. Horel, 2018: Evaluating HRRR Model Performance at Wildfires. *12th Fire and Forest Meteorology Symposium*. Idaho, Boise.

Blaylock B., J. Horel, 2018: Multi-Year Analytics of NOAA's High-Resolution Rapid Refresh Model. *Open Science Grid All-Hands Meeting*. Utah, Salt Lake City.

- Blaylock B., 2018: HRRR and GOES-16 Archive at the University of Utah. *Utah Chapter of the AMS/NWS Meeting*.
- Blaylock B., J. Horel, 2018: High-Resolution Rapid Refresh Model Analytics in a High-Performance Computing Environment. *AMS 17th Conf on Artificial and Computational Intelligence and its Applications to the Environmental Sciences*.
- McCorkle T., B. Blaylock, J. Horel, E. Crosman, A. Jacques, 2017: Communicating Fire Weather Risks at Short Lead Times using the High-Resolution Rapid Refresh (HRRR) Forecast Modeling System. 2017 *Conference on Fire Prediction Across Scales Columbia University*.
- Blaylock B., J. Horel, and S. Liston, 2017: Cloud Archiving and Data Mining of High-Resolution Rapid Refresh Forecast Model Output. *Modeling Research in the Cloud NSF Workshop*.
- Blaylock B., J. Horel, and E. Crosman, 2017: Observations and Simulations of a Lake Breeze with High Ozone Concentrations in the Salt Lake Valley. *AMS 13th Symposium of the Urban Environment*.
- Blaylock B., 2016: Teaching the Weather Merit Badge: STEM Education in the Boy Scouts of America Organization. *AMS 25th Symposium on Education*.
- Blaylock B., J. Horel, and E. Crosman, 2016: Observation and WRF Simulation of a Lake Breeze During a Summer Ozone Event in the Salt Lake Valley. *AMS 22nd Symposium on Boundary Layer and Turbulence*.
- Blaylock B., E. Crosman, and J. Horel, 2016: WRF Simulation of a Summer Ozone Event in the Salt Lake Valley Initialized from HRRR Analyses. *AMS 19th Joint Conference on the Applications of Air Pollution Meteorology*.
- Blaylock B., A. Long, et al., 2015: The Great Salt Lake Summer Ozone Study. *Department of Atmospheric Sciences Seminar*. Utah, Salt Lake City.
- Blaylock B., E. Crosman, and J. Horel, 2015: Weather Conditions in the Uintah Basin during SONGNEX. *SONGNEX Data Workshop*. Colorado, Boulder.
- Blaylock B., J. Horel, E. Crosman, and J. Young, 2014: Boundary Layer Structures Associated with High Winter Ozone Concentrations in the Uintah Basin. *AMS 16th Conference on Mountain Meteorology*.
- Blaylock B., N. Grossberg, and B. Lefer, 2013: Meteorological Influences on Surface Ozone in the Los Angeles Basin. *AGU Fall Meeting*.