**Updates from the TRAX air quality project: measuring PM2.5 from a mobile platform and air quality spatial patterns during the ‘18/’19 winter season**

Logan E. Mitchell1, Erik Crosman1, Daniel Mendoza1,2, Ben Fasoli1, Alexander Jacques1, John Horel1, John C. Lin1

1 Department of Atmospheric Sciences, University of Utah, Salt Lake City, UT 84112

2 Pulmonary Division, School of Medicine, University of Utah, Salt Lake City, UT 84112

The TRAX-based air quality project leverages public transit operations to obtain spatial and temporal measurements of air pollutants across the Salt Lake Valley and has been successfully operating since late 2014. We will present the air quality observations during the 2018/2019 winter and discuss how the spatial patterns of pollutants compare to prior years. In addition, this winter we deployed a stationary PM2.5 monitoring site along the TRAX train track to investigate how the speed of the train impacts particulate matter measurements. We will discuss these results, as well as comparisons between several co-located instruments at the Hawthorne Elementary School Division of Air Quality location.