

P36 Relationship of WRF convective properties to convective indices

Kennedy, Aaron, *University of North Dakota*

By necessity, GCMs have simplistic convective parameterizations. These current parameterizations do not directly factor wind shear into calculations of convective properties such as mass flux and coverage. Despite the well-known influences of wind shear on convective storms, it is still unknown how this may influence mean properties over areas the size of GCM grid boxes. In lieu of observations, WRF simulations run in support of the NOAA Hazardous Weather Testbed (HWT) will be used to investigate how convective properties vary with wind shear for thermodynamically similar environments. Multiple years of convective explicit simulations provided by NCEP and NSSL will be used to determine statistics and investigate how microphysics parameterization may impact these results.