Airborne Radio Occultation: a Set of Observing System Simulation Experiments (OSSE)

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AIRS 850mb T, Sept. 13th 09Z, 2010

Real observations  HWRF nature run  Simulated observations

Data assimilation experiments:

**Control**: Simulated GTS observations are assimilated.
**GGE**: Control + simulated spaceborne and airborne non-local RO observations are assimilated.
**GG4**: RO data points below 4km are discarded.

WRF-ARW & 3DVAR