gfs NH Moisture (g/Kg) Fits to RAOBS
30jul2011 – 00z28aug2011

Comparison of GPSRO water vapor with AIRS, ECMWF and NCEP analyses

30S-30N 2007 Annual 547 mb

No apriori water

GPS deconvolved
GPS 1DVar UCAR
ECMWF
AIRS
NCEP

E. R. Kursinski & A. Kursinski
Fall AGU Meeting: G52A-01
Dec 17, 2010
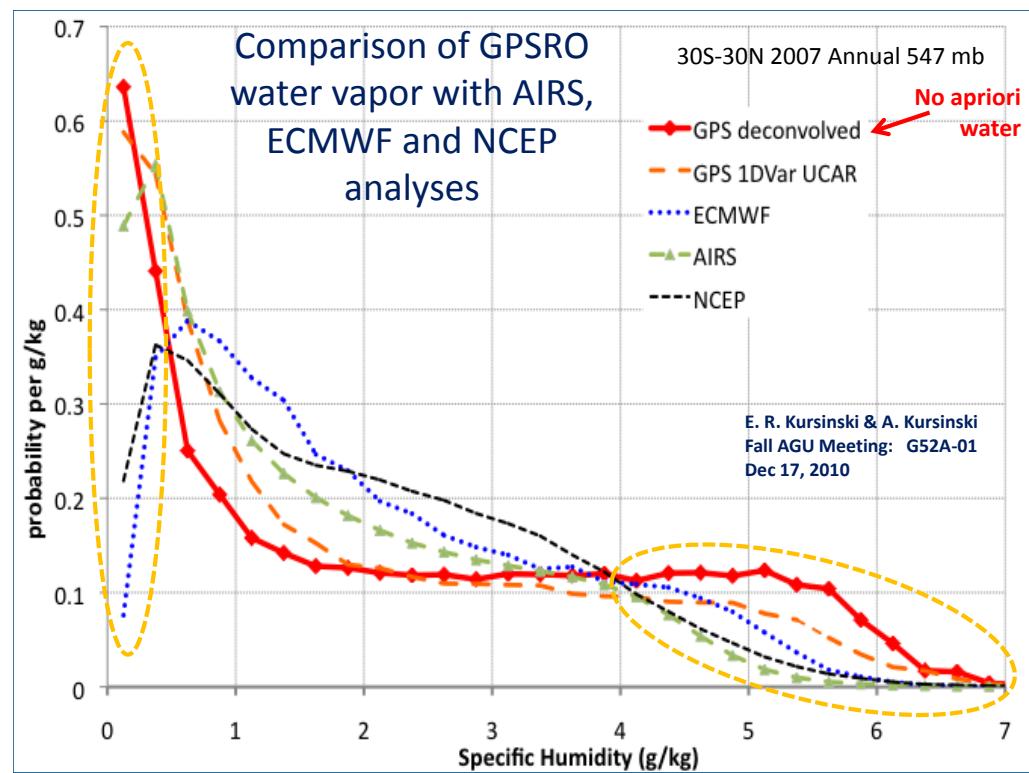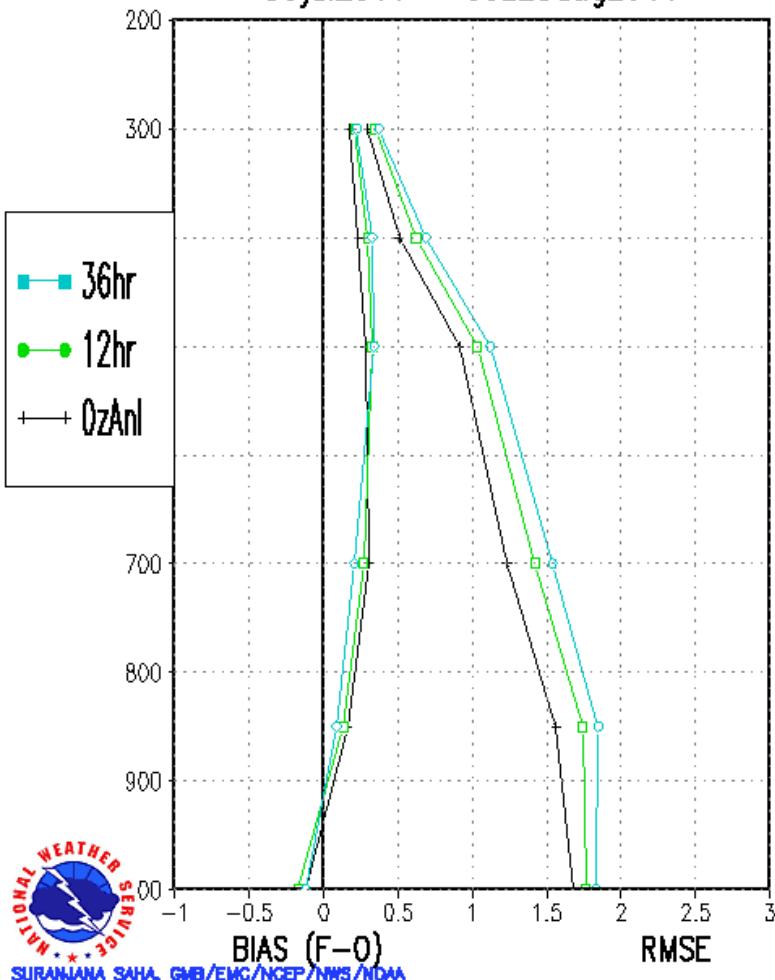
Improving QPE and QPF at GFS

- Limitations in models (data assimilation, resolution, physics, instabilities, …)

- Inaccurate error structures for observations

- Under utilization of moisture information contained in observations (eg. GPS RO)

- Better tools for moisture verification

- Closer cooperation (eg. sharing code algorithms and information) between centers