

Impact of GPS-Based Water Vapor Fields on Mesoscale Model Forecasts (presentation)

598 Beth Bartel December 30, 2009 [SuomiNet](#) 2065

Impact of GPS-Based Water Vapor Fields on Mesoscale Model Forecasts

(5th Symposium on Integrated Observing Systems, Albuquerque, NM)

Jonathan L. Case and John Manobianco
NASA Kennedy Space Center/Applied Meteorology Unit/ENSCO, Inc.

Yuanfu Xie
NOAA/FSL

Randolph Ware
UCAR and RAdiometrics Corporation

Teresa Van Hove
UCAR

Presentation outline

- 3D water vapor analysis with GPS
 - GPS slant delays, simulated network
 - 3DVAR assumptions, results
 - Microwave profiler example
- Experiment design
 - Simulated slant GPS network
 - ARPS/ADAS assimilation
- Mesonet demonstration
- Summary

[See [attached Power Point presentation](#) for more.]

Online URL:

<https://kb.unavco.org/article/impact-of-gps-based-water-vapor-fields-on-mesoscale-model-forecasts-presentation-598.html>