

Vertical Structure of the Atmosphere within Clouds Revealed by COSMIC Data

*Zou, X. and L. Lin
Florida State University
Tallahassee, FL 32306-4520*

Vertical structures of the atmosphere within different types of clouds are examined using COSMIC GPS ROs within a one-year period from September 2007 to August 2008. CloudSat data are used to determine cloudy ROs. Structural differences between different cloud types and their seasonal dependence are examined. Potential applications of COSMIC ROs in cloudy environment to physical parameterization of moist processes are discussed. Numerical results will be presented at the workshop.