

Improving the Accuracy of Satellite Moisture Measurements

Daniel L. Birkenheuer and Seth I. Gutman NOAA - Earth System Research Laboratory, Boulder, Colorado



Introduction: Calibration and validation (Cal/Val) of GOES-R and current GOES moisture can be achieved using an independent data system such as ground-based global positioning (GPS) dual channel measurements. Addresses NOAA mission: satellite product improvement, model improvement, climate research.

Recommendations:

- 1. Modify and test new satellite algorithms using GPS
- 2. Investigate the impact of assimilating GPS data for improving model forecasts, thus improving the climate record, general circulation models (GCMs), satellite science, and climate science

