

We thank the review for their time in reading our paper and offering their thoughts and suggestions. The reviewer's comments/suggestions are in regular black text, and *our replies are in the blue italics*.

This study compares seven collocated infrared spectrometers over a month-long deployment to evaluate consistency in radiance measurements and retrieved thermodynamic profiles.

The instruments agree within 1% in radiance, display minimal spectral calibration differences, and produce temperature, humidity, and derived quantities (such as PWV and boundary-layer height) that match well within expected uncertainties.

#### General Comments

This is a clear, rigorous, and well-presented intercomparison study that convincingly demonstrates the reliability of modern IRS instruments for network applications.

The scientific approach is sound, the analysis thorough, and the presentation is clear and well structured. I find the work robust and valuable, and would recommend publication subject to minor technical corrections.

#### Technical corrections

r160 has -> have

*Done*

r162 provides -> provide

*Done.*

r182 missing Fig. number

*We meant to reference Figure 6. That has been fixed*

r218 TROPoe acronym is already defined in r71

*We have removed that redundancy.*