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## ***Interactive comment on “Validation of the Atmospheric Chemistry Experiment (ACE) version 2.2 temperature using ground-based and space-borne measurements” by R. J. Sica et al.***

**Anonymous Referee #1**

Received and published: 9 October 2007

This paper is a thorough comparison of the ACE version 2.2 temperature product with an extensive set of ground-based and satellite-borne temperature measurements. The ACE-FTS measurement technique and temperature retrieval are briefly described and overviews are provided of the correlative data sets. The methods used in comparisons are described and are appropriate. The paper is well-written and describes an important data set which is widely used by the community. It should be published.

Technical corrections:

p12469 line 16: I would prefer "features are fit" to "features are fitted"

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p12479 line 19, "profile" should be "profiles"

p12480 line 22, drop the commas

p12484 line 6-7, Somewhat awkward. I would prefer ...who show comparisons of individual ACE-FTS and SABER coincident profile pairs as well as daily-averaged ACE-FTS, coincident MLS and SABER profiles.

p12487 lines 26-7 Given that use of the Langhoff ..., and that the...

p12488 line 24: "higher" temperatures rather than "hotter." The two sentences stating the bias are redundant. Drop the first and the "That is," of the second.

p12489 lines 14-15: Better to be quantitative- bias magnitude is less than (1K?)

Figure 18: "Relative difference..." what does "relative" mean? Drop it? p12489 lines 14-15: Better to be quantitative- bias magnitude is less than (1K?)

Figure 18: "Relative difference..." what does "relative" mean here? Does "difference" suffice?

p12497 line 20: "absolute difference" ? Again, is this just "difference"

p12497 line 22-23: The mean difference varies with altitude, within ..."

p12503 line 18: I would prefer "agreement is better" to "agreement is less"

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Interactive comment on Atmos. Chem. Phys. Discuss., 7, 12463, 2007.

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