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Comment

***Interactive comment on “Stability of temperatures from TIMED/SABER v1.07 (2002–2009) and Aura/MLS v2.2 (2004–2009) compared with OH(6-2) temperatures observed at Davis Station, Antarctica” by W. J. R. French and F. J. Mulligan***

**Anonymous Referee #2**

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I insist in my previous appreciation that this is an excellent paper: The authors compare the data set of ground-based OH rotational temperatures from the Antarctic station Davis with airglow-equivalent temperatures from the SABER and Aura-MLS satellite instruments, with a consequent enhancement of the usefulness of all three data sets. The absence of a trend in the MLS, and its presence in the SABER comparison is even more far-reaching because it will have favorable impact on other instrument intercomparisons.

I agree with reviewer 1 that information about each separate trend (for Davis, SABER,

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and AURA) would enhance the message of this paper. Also, this would permit to be more explicit about "caution ... needed when using SABER temperatures over an extended time-period" (as stated in the last sentence), and not only with respect to this satellite instrument.

In the present discussion version of the paper, my suggestions for minor improvements have already been implemented, and I find nothing else to criticise.

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Interactive comment on Atmos. Chem. Phys. Discuss., 10, 21547, 2010.

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