

## ***Interactive comment on “Evolution, current capabilities, and future advances in satellite ultra-spectral IR sounding” by W. L. Smith Sr. et al.***

**W. L. Smith Sr. et al.**

Received and published: 15 June 2009

**A. Anonymous Referee #1 (acpd-9-S1338)** Received and published: 7 April 2009

### **General:**

1. The title of the paper has been changed
2. Paper being published as “Technical Note”.

### **Specific:**

1. Chapter 3: Text modified to explain resolution of data

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2. Chapter 4: (a) Text modified to indicate that there is no difference in retrieval code, (b) Text modified to explain “qualitative nature” of the comparison.
3. Chapter 5: Reference to wind profiling technique validation has been added to the text.
4. Chapter 6: (a) Text added to explain why a difference spectrum is not shown here. (b) Text describing the spatial and temporal averaging of the data shown in figures 11 and 12 now included in the manuscript.

**B. Formal Referee: R. Sussmann (acpd-9-S1774)** Received and published: 27 April 2009

**Specific:**

1. Abstract changed to include reference to the inclusion of science results examples.
2. The science politics questions are not “guess work”. The first author was directly involved in all the agency decision discussions cited.
3. These terms are now defined in the introduction.
4. The title has been changed to “Technical Note: . . . .)
5. There is nothing I can do in response to this comment.
6. A table is added to the text as suggested by the reviewer.
7. The intent of the figure is merely to show the three dimensionality of the data and its spatial and temporal consistency. Text added to the manuscript to describe the purpose of this figure.

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Interactive comment on Atmos. Chem. Phys. Discuss., 9, 6541, 2009.

**ACPD**

9, S2552–S2554, 2009

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