

## ***Interactive comment on “How to average logarithmic retrievals” by B. Funke and T. von Clarmann***

### **Anonymous Referee #1**

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This paper explores an important point regarding the bias that can arise when averaging linear and logarithmic retrievals; this is particularly relevant for the construction and intercomparison of climatologies. The topic is well motivated, the analysis is thorough and the conclusions are sound. I recommend publication in AMT with the following minor technical corrections.

- The phrase “several ten percent” in the abstract is not a common English construction. Please consider rephrasing.
- Also, the phrase “hardly predictable” appears in both the abstract and the conclusions and is also not typical. Maybe simply “unpredictable” would be better.

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- The idealized assumptions made in Equations 5 and 6 may not be completely obvious to some readers so a little explanation in the text might be helpful.
- Legends for figures 2, 4, 5, 6, 7 and 8 are required.

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Interactive comment on Atmos. Meas. Tech. Discuss., 4, 7159, 2011.

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