

Interactive comment on “Noise performance of microwave humidity sounders over their life time” by Imke Hans et al.

Imke Hans et al.

imke.hans@uni-hamburg.de

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Reply to comments

Referee 1 – Minor Comments

Thank you very much for your comments on our manuscript. I address them in the following:

Referee 1: "Page 1, line 5: NEdT is a measure of precision (or noise). Accuracy is bias, in this case due to calibration. Precision and accuracy are different and independent quantities. Here you evaluate the noise so you need to change 'accuracy' to 'precision'."

C1

You are correct. I will change 'accuracy' to 'precision'.

Referee 1: "It would be nice for an unfamiliar reader such as myself to have a table that maps channel number into frequency, bandwidth, prelaunch NEDT."

I agree on that. It is nice to have such a table directly at hand in the paper. I will include this in the manuscript.

Referee 1: "Page 11, line 5: missing date for reference ('?')"

Corrected.

Referee 1: "Figures 3/5: Why do you just show the two red pixels per panel? Is it for clarity? Please comment in caption."

The red dots indicate the noise in DSV counts calculated with the inter-pixel method. We applied this method exemplarily only for these two orbits for which we investigated the spectrum as well (orbits 505 of 2005 and 4500 of 2007 for Figure 2 and 3 and orbits 500 of 2003 of 2006 for Figure 4 and 5). We show the two red dots as a comparison to the results from the inter-scanline method (black dots). I will adapt the captions to make this clearer.

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C2