

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

**Imke Hans et al.**

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Reply to comments 16.10.2017

Referee 2 – Minor Comments

We would like to thank you very much for your comments on our manuscript. We address them in the following:

Referee 2: "Page 6, first paragraph (and in some other places) I understand what you mean by saying “four views on the OBCT ... four views on the deep space...” But I find it a bit confusing to call those “views” since you also refer to the “deep space view” (singular). Same thing with saying “90 earth views”. Perhaps call it something else like “samples”. "

C1

You are right, this might be confusing. However, these four measurements of deep space or OBCT (or the 90 for Earth) are very often referred to as “views” in literature. I would therefore stick to this term. But I will be more consistent to talk about the four deep space views in plural, and use the singular if speaking of one particular view only.

Referee 2: "“White noise” and “pink noise” are mentioned but I couldn’t find a definition for what they are. It may be good to include a brief definition for people not familiar with those terms."

I will include the short definitions: white noise (constant power spectral density), pink noise or 1/f noise (power spectral density that is proportional to inverse of frequency, i.e. 1/f).

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Interactive comment on Atmos. Meas. Tech. Discuss., doi:10.5194/amt-2017-277, 2017.

C2