

# ***Interactive comment on “Assessment of adequate quality and collocation of reference measurements with space borne hyperspectral infrared instruments to validate retrievals of temperature and water vapour” by X. Calbet***

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1. Paragraph on best estimate, collocation errors, etc.. has been extended to better explain the effects.
2. Bias and accuracy of sonde humidity measurements have been further explained as suggested by the referee.
3. Change parcel to collection of parcels as suggested by the referee

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4. Time interpolation of sonde data better explained now.
5. Better explained the positive deviation in the upper atmosphere of the ECMWF profile.
6. p 5602 line 11. Inequality here is consistent with Fig. 8 since we are dealing with uncertainties, so an approximate order of magnitude is enough, we do not need a perfect match of the uncertainties here.
7. Changed few for little in "as few retrieved parameters from hyperspectral radiances as possible".
8. Changed "quality assessment" to "this adequacy assessment" to be consistent with the rest of the paper.

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