

***Interactive comment on* “Observing three dimensional water vapour using a surface network of GPS receivers” by S. de Haan and H. van der Marel**

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We thank the anonymous referee for his/her carefully reading the manuscript and thorough comments. We have considered all comments as valid and useful to improve the manuscript.

General comments:

We added in the appendix the background error characteristics as observed with HIRLAM+06 and observed no difference.

Specific comments:

8 : we changed the name of subsection 3.2. and added some words. The extreme

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outliers are not used in the 3DVAR analysis due to the simple quality control method described in section 4.2.1. (the standard deviation in 5 minutes of ZTD mapped to the zenith should be smaller than 12 mm)

9: We have added some words on the choice of 2.5 g/m². This value is a conservative estimate based on previous studies (see e.g. Rocken 1997).

10: We added some words on the used interpolation method.

All other comments used.

Interactive comment on Atmos. Chem. Phys. Discuss., 8, 17193, 2008.

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