

Interactive comment on “The STARTWAVE atmospheric water database” by J. Morland et al.

J. Morland et al.

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GENERAL COMMENTS

- Respecting TROWARA, section 5:

The main instrument changes were the replacement of the 21 GHz amplifier and the improvement of the radiometer model. This is now noted in text. We think that Figure 3 is representative of the dataset and allows the reader to easily see where there are data and where gaps occurred. Regarding the homogenisation scheme we have added a sentence about the trend calculated from Payerne radiosonde measurements, which is the same as that calculated from TROWARA measurements, thus supporting the validity of the homogenised TROWARA dataset.

- Section 11

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We think it is useful to show the progress which has been made in utilising IWV measurements made in a mountainous terrain over an altitude range of over 3000 m.

- Internal reports

Internal IAP reports are available at the following web address: <http://www.iap.unibe.ch/publications/> This has been noted in the introduction

SPECIFIC COMMENTS

Section 1

- We have added a reference to a recent paper by Lorenz Martin. There is no replacement for the thesis from Rohrbach.

- Have rewritten lines 9 to 12 to avoid repetition.

Section 2

- The reference to the paper by Guerova fits better in the second paragraph and can't be changed without rewriting the section

- We have added the symbol p after the reference to surface pressure measurements in the third paragraph

Section 4

- This reference should read Matzler (1993,1994)

Section 6

- Not sure what a dodecagon is? Maybe we should call this a hemispherical sky scan. I have changed the text accordingly.

FIGURES

Figure 1

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- We do not think it is necessary to make time consuming cosmetic changes to this figure, especially since the position of the sonde at Payerne is mentioned in the caption.

Figure 6

- Caption has been changed

Figure 10

- These cosmetic changes would again be time consuming and we think the figure is clear enough that it is not necessary especially since the order in which the stations are presented is repeated in the caption.

Interactive comment on Atmos. Chem. Phys. Discuss., 5, 10839, 2005.

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