

Interactive  
Comment

## ***Interactive comment on “Technical Note: 30 years of HIRS data of upper tropospheric humidity” by K. Gierens et al.***

### **Anonymous Referee #1**

Received and published: 4 April 2014

General This well written paper offers interesting results and should be published after minor revision, but the comments with respect to the change in IGFOV from HIRS/2 to HIRS/4 must be addressed.

Specific Page 2 line 2: Add sentence to introduction on why focus is on UTH with respect to ice Page 2 line 4: Identify the wavelengths of channels 6 and 12 Page 3 line 8: you should also comment on the change in IGFOV from  $\sim 20\text{km}$  to  $\sim 10\text{km}$  Page 3 line 21: A short sentence or two should be included on how the difference in channel 6 ( $\text{CO}_2$ ) and 12 ( $\text{H}_2\text{O}$ ) absorption lends itself to UTH determination Page 6 line 20: explain cloud cleared – are cloudy measurements corrected for the cloud contamination or are only clear measurements selected? Page 6 line 22: Give a nominal change in BT from nadir to 30 degrees for a nominal tropospheric moisture amount Page 8 line

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24: Can the increasing T12 variances in the 2000s have anything to do with the halving of the IGFOV in HIRS/4? Please comment.

Technical No comments

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Interactive comment on Atmos. Chem. Phys. Discuss., 14, 5871, 2014.

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14, C1146–C1147, 2014

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