

## ***Interactive comment on “Global peroxyacetyl nitrate (PAN) retrieval in the upper troposphere from limb emission spectra of the Michelson Interferometer for Passive Atmospheric Sounding (MIPAS)” by N. Glatthor et al.***

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In p. 1392 ln 9. said that: the interfering species ... I think it should say the interfering broadband species to clarify that these species change the baseline as well as PAN.

In the same page ln. 17, you talk about free troposphere, I assumed you mean free of pollution, I think that a brief explanation would make things clearer. For instance, just adding in brackets (free of pollution region) or something like that.

In p. 1395 ln. 21 said: 0.035 cm (unapodised) for spectra ... This resolution is only

for the full resolution mode, nowadays the satellite is working in a reduced resolution mode due to a shorter path of the mirror. A brief sentence explaining that will make things easier for the reader.

In p. 1398 ln. 23 at the begging of the sentences and is written twice: 2.4 and and 4.6

In p. 1406 ln. 6 said: Beside PAN interfering species ... I think it should say PAN interfering broadband species, for the same reason as in the abstract.

In the Conclusions, p. 1407 it is mentioned that there is good agreement between the CO distribution measured by Moppit. A plot showing this result will be helpful.

Now a question, In the retrieval method and error estimation, when you talked about all zero a priori profile, Does this mean that the retrieved shape is smoothed compared to the true profile?

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