

Interactive comment on “Upper tropospheric CH₄ and N₂O retrievals from MetOp/IASI within the project MUSICA” by Omaira E. García et al.

Anonymous Referee #4

Received and published: 13 June 2017

Overall it is good and can be published after major revision. The major problem is that it is like a report, and many places should be rewritten to make it more concise. For example, the conclusion should be rewritten completely, and the first paragraph in section 8 should be removed.

For structure, sections 5,6,7,9 should be moved to the data or method part, and move the results in these sections to validation, or put some of them to a subsection in validation.

There are quite a lot grammar problems and need some efforts to polish the language. References should include AIRS which has the similar CH4 and N2O products.

To say IASI as thermal “nadir” sensor is inappropriate. It scans and have a large swath.

The whole paper has not mentioned the quality control of the products, and is the 2X2 average use all retrievals ? I think the retrievals are made on for clear pixels, and it should be mentioned.

Why the HIPPO -2,-3,-4 data are not used in the validation ? How many profiles have been used ?

Interactive comment on *Atmos. Meas. Tech. Discuss.*, doi:10.5194/amt-2016-326, 2017.

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