

The authors have answered all my comments to the previous version of the paper in a sufficient way. I only have a few technical comments to the revised version of the paper.

1. There are still several sentences (esp. in the newly added text) where e.g. 'the' is missing. I assume this will be handled during language editing.
2. l. 51:
'Note that SPARC data uses earlier (v3.6) version of the ACE-FTS data' → 'Note that SPARC data use an earlier version (v3.6) of the ACE-FTS data.'
3. l. 52:
'data contains' → 'data contain'
4. l. 215: 'We have added discussion in a revised manuscript'
This sentence should be deleted, or do you refer to another manuscript?
5. l 316/317: 'Though exact causes of unusually low CH₄ values in S-MIPAS-CH₄ and S-ACE-CH₄ data files are unclear, but might be associated with the downwards transport of CH₄ poor air...'
Unclear sentence, probably 'Though' should be deleted.