

Review of “Comparison of the GOSAT TANSO-FTS TIR CH₄ volume mixing ratio vertical profiles with those measured by ACE-FTS, ESA MIPAS, IMK-IAA MIPAS, and 16 NDACC stations” by K. S. Olsen et al.

General comments:

The authors have adequately dealt with my points raised following the first review. I recommend publication with minor revisions below.

[1] p1, line13: “Smoothing in needed” ---> “Smoothing is needed”

[2] p3, line16: I would change this sentence as follows.

“However, results without smoothing are also presented here, as they will be of interest to data-users.” ---> “In this study, results with and without smoothing are presented (Sect. 7).”

[3] p8, line18: “the IMK-IAA data has” ---> “the IMK-IAA data have”

[4] p10, line30: “the full-width at the half-maximum values” ---> “the FWHM values”

[5] p10, line31: “the full-width at the half-maximum values” ---> “the FWHM values”

[6] p18, line25: “the corresponding a priori profile” ---> “the corresponding a priori profiles”

[7] p20, line7: “NDACC data has” ---> “NDACC data have”

[8] p20, line8: “and was accessed” ---> “and were accessed”

[9] p34: In Figure 5, “N° coincidences” ---> “No. coincidences”