

Reviewer #1

We wish to thank the referee for his/her helpful comments. His/her full comments are copied hereafter in normal black font, and our responses are inserted in between in bold font.

Here are some minor comments:

P10L197: "The potential of MOPITT to provide information can also be hampered by the errors associated to the MOPITT super-observations (Figure 5b, see Section 2.2)." The sentence itself is in Section 2.2, please remove.

It has been done.

Also here, can you mention that MOPITT V9J has a better observation coverage in polluted areas.

Deeter, M., Francis, G., Gille, J., Mao, D., Martínez-Alonso, S., Worden, H., Ziskin, D., Drummond, J., Commane, R., Diskin, G., and McKain, K.: The MOPITT Version 9 CO product: sampling enhancements and validation, *Atmos. Meas. Tech.*, 15, 2325–2344, <https://doi.org/10.5194/amt-15-2325-2022>, 2022.

It has been done. We have added the following sentence: « The new MOPITT retrieval Version 9 product has a better observation coverage, with a number of daytime MOPITT retrievals over land increased by 30%–40% relative to the Version 8 product due to improvements of the cloud detection algorithm (Deeter et al., 2022). »

Line 271: Change “radical hydroxil” to hydroxyl radical.

It has been done.

Line 289: Why is “super-observations” bold ?

It was an oversight of the track-changes version. It has been corrected.