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Title: Sensitivity of biomass burning emissions estimates to land surface information

Reviewers' Comments

Report #1

1. Fig.4: The value of black line has exceeded the upper limit of the ordinate, such as (a)BKT, the value from August to December.

In response to this comment, we extended y-axis ranges in Fig. 4a and b to show all variations of atmospheric CO concentrations.

Report #2

1. Based on the info you provided (MOP03JM-L3V95.6.3), you are using the MOPITT Version 9 Level 3 multispectral (TIR/NIR) product. Please include this info. And the reference for MOPITT version 9 is not published yet. So please add this reference that describes some of the new changes in MOPITT version 9:
Deeter MN, Mao D, Martínez-Alonso S, Worden HM, Andreae MO, Schlager H. Impacts of MOPITT cloud detection revisions on observation frequency and mapping of highly polluted scenes. *Remote Sensing of Environment*. 2021 Sep 1;262:112516.

We edited the explanation of MOPITT product we used and added new reference Deeter et al. (2021) (Lines 134–138/463–464 in the revised manuscript).

2. Line 220: please change “average annual BB CO emissions” to “annual average of BB CO emissions”

We edited the sentence according the advise (Line 211 and caption of Fig. 2 in the revised manuscript).

3. Line 245: figure 2b, do you mean figure 2f? Besides, the red box in figure 2f is hard to see without zooming in. Please try if changing the red box to black box helps.

Yes, correct figure number is Figure 2f. We corrected this mistake and changed color of the rectangle from red to black (Line 233, caption of Fig. 3, and Fig. 2f in the revised manuscript).