

Interactive comment on “MOVEIM v1.0: Development of a bottom-up motor vehicular emission inventories for the urban area of Manaus in central Amazon rainforest” by Paulo R. Teixeira et al.

Anonymous Referee #1

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In term of technical for this manuscript:

strength point: use the secondary information of 258 roads in the calculation

weak point:

- Methodology used in the calculation equal to Tier 1 (just roughly estimation, don't consider on the factors that related to the emission (as engine type, etc.).
- Result not represent for the whole area (as mentioned in the manuscript, traffic volume is only from major road), it will be better if it has some explanation that mention

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the coverage of the major road → it can used to calculate the uncertainty (from the completeness of information) of this result.

- In the methodology mentioned only the traffic volume during the peak time, meaning that the result from this study represents only emission during the peak time, isn't it? No detail (unit) of traffic volume even in the figure 2. and no detail in the methodology that mentioned about the traffic volume during off-peak period.

- the figure 3 and 4 and the name under figures might be wrong. The result from figure 3 and 4 are mismatched with the traffic volume that presented in figure 2. Please check the result and the name it might be mismatched.)

Interactive comment on Geosci. Model Dev. Discuss., <https://doi.org/10.5194/gmd-2018-81>, 2018.