

Interactive comment on “The role of vegetation in the CO₂ flux from a tropical urban neighbourhood” by E. Velasco et al.

Anonymous Referee #2

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This is very well written paper that reports the role of vegetaion in the CO₂ flux over tropical urban area using EC measurements and tree survey. The results are presently clearly and completely, and the paper should be published with only minor revisions. There are a few areas that might be considered for further description.

Section 2.2 Line 10: Urban flux measurements are becoming more common and, given the heterogeneity of urban landscapes, flux footprint modeling is an important part of the analysis. The authors describe one footprint model (Hsieh et al., 2000), but don't indicate why they selected this model or whether it is well suited to an urban environment. In general, the question can be asked whether any footprint models are well suited to urban flux measurements, but this may be a question for the larger community.

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Section 4 Line 31: There have been some tries to apply flux measurements to a whole city by extrapolation to fill the gap between different scales or between bottom-up and top-down methods. Authors need to describe the possible reasons why they cannot extrapolate to the whole city. This is also good for the community to take care of the application areas of flux measurements.

Figure 4: Technically the quality of figure must be improved, especially the low resolution of letters of references on y-axis.

Figure S11: Open circles can much clearly show color codes instead of filled ones. Some local time circles seems hidden by others.

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