

## Note to editor:

We found that there was a miscommunication between the authors that the leaf area density input variables for GEO4PALM should be the leaf area index (tree\_lai\_max) rather than the leaf area density (tree\_lad\_max).

We have used the integral form of the equation listed in the manuscript (Eq.1) and indicated this input variable should be the leaf area index in the original version. During the first round of revision, one of the reviewers pointed out that this should be the leaf area **density**. We followed this suggestion and later found that this variable should be the leaf area **index**. This mistake was only found after the first round of revision was done and hence, we have this issue communicated here.

The only changes here are the names of the variables used in GEO4PALM. GEO4PALM uses the integral form of the leaf area density, which should be the leaf area index. The GEO4PALM code has not been affected and remains the same.

We have corrected the name of this variable in the manuscript and revised the corresponding texts to clarify this. The rest of the manuscript has remained the same.