Biogeosciences Discuss.,
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Biogeosciences
Discussions

Interactive comment on "Technical Note: Rapid image-based field methods improve the quantification of termite mound structures and greenhouse-gas fluxes" *by* Philipp A. Nauer et al.

Anonymous Referee #3

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Nauer and coworkers present the efficiency of Photogrammetry (PG) method using Structure from Motion (SfM) by comparing with CT scan method. Complexity of termite mounds in ecosystems have made us difficult to understand the internal structure (both macro and micro pores), thus, biogeochemical reactions inside the termite mounds. This study provides simpler and more reliable ways to understand the internal/external structures of termite mounds than conventional simple geometric shape methods. The results of this study can be utilized for more accurate estimation of termite population and GHG emission in various ecosystems. If the estimation of spatial distribution of termite mounds in each ecosystems will be combined, we can estimate ecosystem scale GHG emission more accurately. Therefore I can recommend the manuscript for

publication as a technical note in Biogeosciences only after technical corrections. I suggest several points as outlined below.

P3,L1 CH4 oxidation "by termite mounds"

P12,L15-P13,L3 This part should be moved to "Introduction".

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