The requested changes are as follows:

**Page 5, Equation (5) (TS1):**

Please change "H" to "Z" (2x).

Explanation: They are typos in the final version of the submitted manuscript. In Eq. 5, the parameters in “S = 0.25πρΛαHD2+θH” should be consistent with those in “Z = αZ DθZ”
“αH” and “α Z” , “θH” and “θZ” are the same parameters in this set of equations (Eq. 5). I prefer to use “Z” as height in the subscript, instead of “H”, because “Z” has been defined as tree height.

**P. 7, Eq. (11) (TS3), line 40 (TS4):**

Please change “M” to "θ".

Explanation: It has a conflict in the notation. In this equation (Eq. 11), “M” is used to represent “soil moisture”. However, in Eq. 12, “M” is used to represent “Microbial biomass”. So, I’d like to use “θ” in this equation (Eq. 11) as “soil moisture”.

**P. 8, Eq. (15) (TS5):**

Remove duplicate “cos” (2x).

Explanation: “cos” was doubled in the final submitted version (maybe in a previous version) mistakenly. I don’t know why, maybe, the transform between google doc and ms word. The correct format should be “cos θS ”, cosine of the solar zenith angle.