

We would like to thank the reviewers for their insightful and constructive comments and efforts towards improving our manuscript. We present our point-to-point responses as follows:

#### Reviewer #2

The authors have successfully addressed issues raised during the original review by greatly expanding discussion of relevant factors, as well as by adding a new paragraph and a figure showing sensitivity of the model's outcomes to the stomatal resistance.

Therefore, I recommend this manuscript for publication provided the suggested change to the Table 1 is made "in the final typeset version" (as per response by the authors).

**Reply: I have submitted the revised table 1 for the editor to replace in the final typeset version.**

I also recommend that:

- the source of the land cover data should be cited in the Figure 1 caption

**Reply: Reference has been added as suggested.**

- the data shown on the figures 3 to 10 to be provided in a tabular format as an electronic supplementary material for the paper, if possible.

**Reply: The original data that used to create Fig. 3-10 is provided as a supplementary file as suggested.**