

Dear the anonymous referee#1,

For your comments on our manuscript we would add the following response:

Notes: The contents of reply to the comments from the anonymous Referee #1 by co-authors were marked with blue text.

1) The symbol of the bulk canopy resistance r_c at line 16 and 20 in page 5, and at line 12 in page 6 should be represented by r_s .

2) The sentence “where $r_{s\min}$ is the maximum stomatal resistance ($s\ m^{-1}$)” at line 3 in page 7 should be “where $r_{s\min}$ is the minimum stomatal resistance ($s\ m^{-1}$)”.

The first reply to your comments “The sentence “where $r_{s\min}$ is the maximum stomatal resistance ($s\ m^{-1}$)” at line 10 in page 6 should be “where $r_{s\max}$ is the maximum stomatal resistance ($s\ m^{-1}$)” is incorrect.

3) At line 11 and 12 in page 8, the right form of the equation (12) and (13) should be as:

$$X(T_c) = \frac{X(T_c = 298) Q_{10}^{(T_c - 298)/10}}{\left[1 + e^{0.3(T_1 - T_c)}\right] \left[1 + e^{0.3(T_c - T_2)}\right]}$$

$$\Gamma(T_c) = \Gamma(T_c = 298K) Q_{10}^{(T_c - 298)/10}$$