

Dear Dr. Xiao,

Thank you for your letter and the thoughtful comments about our manuscript. We have made all corrections according to these comments, as explained as following:

#1 In your response to the #2 comment of Reviewer #4, you explained how rainfall reduces the salinity and then influences CO₂ flux. Did you add this into the Discussion? If not, you should add this into it.

Our reply: Yes, please see Page 20 Line 401-410 in the revised manuscript.

#2 Figure 4 caption: explain what the different numbers of stars mean.

Our reply: We added the explanations for the star (or asterisk) symbols to the caption of Figure 4 (see Page 40 Line 709-711) in the revised manuscript.

#3 language-related problems

Our reply: We corrected all related grammar errors as suggested.

We hope the manuscript is now acceptable for Biogeosciences.

Thank you and the two reviewers for your great helps on our manuscript.

Yours sincerely,

Guanghui Lin