

Dear Dr. Xiao,

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

Comments to the Author:

Please make the following corrections:

Line 401: replace “Large amount water from the rains” to “The large amount of rain water”

Line 409: remove “because of such rainfall”

Lines 674-676: Rephrase as: “, **, and *** stand for significance level $P < 0.05$, $P < 0.01$, and $P < 0.001$, respectively.”*

Lines 709-711: same as above

Our reply: We corrected all these sentences or phrases, as suggested.

We hope the manuscript is now acceptable for Biogeosciences.

Thank you for your great helps on our manuscript.

Yours sincerely,

Guanghai Lin