

***Author response to the comments to the author:***

Dear Jong et al.,

Thank you for submitting the revised manuscript. The manuscript has been re-evaluated by a previous reviewer who was overall satisfied with the revisions. I agree that the revisions have addressed the reviewer's concerns and improved the manuscript. The reviewer asked for a couple of minor edits which I think should be easily incorporated in the final version.

I am therefore happy to inform that your manuscript is accepted for publication in Biogeosciences pending the final corrections requested by the reviewer (see below).

*Thank you! We are thrilled to have our manuscript accepted for publication in Biogeosciences.*

Reviewer comments:

Thanks so much for addressing all the comments. I requested information about algal production in the river, possibly some Chla measurement, but they did not have such data. I am wondering whether they could add some references about Chla data in rivers in this region or others in the Arctic, so readers have a general idea about the productivity in this river.

*We have added a reference to a phytoplankton study in the Lena Delta to line number 353: "This abrupt transition between fresh water and saline water POC composition is likely tied to the different phytoplankton communities present in these respective environments, as seen in other Arctic river deltas (e.g. Kraberg et al., 2013; Lena River delta)."*

Line 82, should be: "...2016)." *Edited*

Line 85 delete the "." after degradation. *Edited*

Thank you for submitting your work to Biogeosciences.

Best regards,  
Yuan Shen  
Associate Editor