

Interactive comment on “Particulate organic matter composition and organic carbon flux in Arctic valley glaciers: examples from the Bayelva River and adjacent Kongsfjorden” by Z.-Y. Zhu et al.

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The present paper deals with a real interesting topic which is the study of Carbon Arctic area. In general, the paper is well structured, the material and methods are well described and correct and the results are clear. However, I have serious concerns about the novelty contribution of the paper as most of the results are quite evident and expected. So, the manuscript is quite descriptive and the main conclusion is not novel at all. In addition, it is important to note that most of their statements are based on a short sampling period and it appears that there was not any clear sampling strategy. So, no

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clear temporal (inter-annual) changes can be obtained. In many places, it appears the data are over extrapolated.

Some general considerations can be suggested: Page 15660, line 20: “AA” should be “AAs”? it does not appear before here. Page 15661, line 18: how to use HCl to remove the inorganic carbon? It should be stated. I would suggest to re-drawn Figure 1 to 3 in order to get more readable. I recommend the authors to round off the significant digits to less than 3, e.g. Table 1 & 2. Page 15669, line 18-29: I could not understand this paragraph, especially, how the authors estimate great contribution of POC to the study area. I would suggest the authors to re-read the manuscript as there are several words asymptatic used along the text, e.g. riverine, relatively, ...

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