Biogeosciences
Discussions

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Interactive comment on "From Canals to the Coast: Dissolved Organic Matter and Trace Metal Composition in Rivers Draining Degraded Tropical Peatlands in Indonesia" *by* Laure Gandois et al.

Anonymous Referee #1

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The authors present a unique data set on trace metals from the water draining tropical peatlands and provide a valuable insight into downstream DOM processing. This data is greatly needed and of value to the tropical peatland community and the effects of land use change on such fragile ecosystems. I support the publication of this research and offer only minor comments, which I outline below.

Line 103: is the predominate agriculture from oil palm? Would be nice to add some detail in regarding the current land-use i.e. industrial plantations/ small holders etc. if known.

Line 108: Should figure 1 be referenced somewhere in this area? I am not sure if it is

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referenced at all?

Line 126: how long after collection were the DOC samples left until they were analysed? I assumed that they needed to be shipped back for analysis on the TOC machine? Did any DOC flocculation occur with acidification? As this can hinder analysis.

Line 148: 'Fluorescence' is in blue font colour needs to be changed to black

Line 163: I wouldn't say that the DOC concentrations were 'extremely' high fir a black water river maybe just 'high' or moderately high

Line 294: 'Corals' is in blue font needs to be changed to black

Table 1: the numbers have a mixture of decimal places and commas to separate the numbers. Should all be decimal places. The SUVA column needs to be centralised. There is also a mixture of italics and regular font. I am not sure if this is on purpose and if so what this signifies?

Figure 4: the bar caps are missing from the standard deviation? Also there is no mention of whether these lines represent +/- standard error. This should be added from clarification.

Figure 6: there appear to be grey triangles on Fig 6b – should these be purple to indicate Java aerosols? Also would be good to indicate what the error bars refer to i.e. +/- standard deviation or standard error of the mean?

Figure S1:1 it is quite hard to distinguish the minus standard deviation part of the bar as it is the same colour (blue) as the bar chart lines. Perhaps change the bars to black so that they stand out.

Figure S1.2: the bar caps are missing from the standard deviation? Also there is no mention of whether these lines represent +/- standard error. This should be added from clarification.

Interactive comment on Biogeosciences Discuss., https://doi.org/10.5194/bg-2019-253, 2019.

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