

Reviewer 2

We would like to thank the Reviewer for the general positive opinion about our revised manuscript as well as further constructive comments and suggestions. In the following we response to all of the comments (in bold italics).

- 1. In response to my comments on the previous addition the authors provided the following information about figures 4 and 6:***

Figure 4 – this figure presents the results from 130 measurement series (field campaigns in monthly or biweekly intervals). Each series consist of several parameters (water temperature, dissolved oxygen concentration, pH, specific conductivity, and chlorophyll-a concentration) in the water depth range of 0–40 m with 1 m intervals.

Figure 6 – this figure presents the daily fluxes, i.e., mass accumulation rates (MAR, g m⁻² day⁻¹) calculated for 93 samples collected from the sediment trap. Also values of TOC and TIC come from elemental analysis of the 93 sediment samples.

This level of detail about the contents of the figure should be included in the captions.

We modified the figure captions accordingly.

- 2. Generally the text reads quite well, but I found several minor grammatical errors that should be remedied by either the authors or a member of the journal's editorial team.***

Some examples from pages 2-3 of the ms:

L 51: "allow to assess" should read "allow us to assess" or "allow for the assessment of" or something else grammatically correct

L 67: "Lake Żabińskie is sited" should read "Lake Żabińskie is situated" or "Lake Żabińskie is located"

L 69: "showing features of moraine landscape" should read "features of moraine landscapes" or "features typical of a moraine landscape" or similar.

Thank you for this comment. The whole text has been checked for English language by Reviewer 3. All suggested changes were accepted and introduced into the text.

- 3. I am not sure whether or not it is an issue that the meteorological data described in the study are not provided. The authors address this in their comments on the previous version, explaining why they are not able to provide the data, but I'm not sure if this is acceptable given the journals mandate for FAIR data***

We would like to emphasize once again that our paper presents data from our measurements – these are data on water temperature, chemistry, and sedimentation in Lake Żabińskie. Meteorological data do not come from our measurements and they are supplementary. Source of meteorological data is independent of our research and we cannot provide the files. However, in the section “Data availability” we provided wider explanation with a reference to a paper which explains how to retrieve data for specific meteorological station from the IMWM-NIR database.

Reviewer 3

We would like to thank the Reviewer for his general very positive opinion about our manuscript as well as very detailed checking of English language. We accepted all suggested changes.