

Interactive comment on “Resilience to temperature and pH changes in a future climate change scenario in six strains of the polar diatom *Fragilariopsis cylindrus*” by M. Pančić et al.

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Dear Penelope Ajani,

We would like to thank you very much for your comments on our manuscript, which are very helpful for us to improve the manuscript. Below you can find our response to the comments.

Abstract: I think it is important to state that DIC, nutrients and molecular characterization (ITS) were included in this study. The measurements of DIC and nutrients were taken in order to exclude them from the list of parameters, which could potentially interfere with the growth of the species. Molecular characterization was performed to

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confirm the identity of the strains as well as the similarity among them. With this in mind, we believe that stating the measurements in question in the abstract will not improve the overall understanding of the topic.

Materials and methods: What depth were the water samples collected and what was the collection method? 'Water samples were collected from Disko Bay (69°11 N, 53°31 W), Western Greenland from the upper 20 m surface layer with a 20 μ m mesh plankton net.' This information will be added accordingly.

It is not obvious why the strains were reduced in number beyond the first set of experiments. This could be clearer. In the section "Materials and methods, Experimental setup" (pg 4632, line 3), the following will be added: 'Based on the observation from the first set of experiments, which showed clustering of six strains into three groups (Fig. 2b), the second set of experiments with reduced number of strains (taking one strain from each group – D3G1, D4D11 and D10A12) was carried out at 8 °C and with all pH treatments. The third and final set, with the same reduced number of strains was carried out at 1 °C and all pH treatments.'

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