

Interactive comment on “The cryostratigraphy of the Yedoma cliff of Sobo-Sise Island (Lena Delta) reveals permafrost dynamics in the Central Laptev Sea coastal region during the last about 52 ka” by Sebastian Wetterich et al.

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The manuscript ‘The cryostratigraphy of the Yedoma cliff of Sobo-Sise Island (Lena Delta) reveals permafrost dynamics in the Central Laptev Sea coastal region during the last about 52 ka’ by Wetterich et al. is a fairly technical piece of work that complements the long-term German-Russian research efforts in the permafrost environments of NE Eurasia.

While the core part of the manuscript is outside of my field of expertise, I was ap-

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proached to review the manuscript because the authors adopt the suggestion that megafloods from glacial Lake Vitim could have been responsible for the observed hiatus in the chronostratigraphy of the studied sedimentary records. From my perspective, the discussion of the megafloods causing erosion of the sedimentary record or redirecting the main stream of the river into another portion of the delta is sensible, with alternative explanations also considered. I agree also with the argumentation that the stage 3 hiatus does not match the period of the mildest climate and instead postdates it by at least several thousand years.

At line 614, I would suggest to change the wording of ‘but might be related to general MIS 3 climate instability’ to ‘but instead falls to a period of late MIS 3 climate instability...’. This wording is less speculative and the possible linkage between the IC stratigraphy and the DO events is expressed sufficiently in the following sentence.

I do not have any major comments or objections to the manuscript and find it ready for publication in TC.

Minor comment: Fig. 1. It would be good to include the River Vitim in panel (a), given that the floods that went down the Vitim-Lena route are a key part of the interpretations of the studied sedimentary record.

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