

Interactive comment on “Pulses of enhanced North Pacific Intermediate Water ventilation from the Okhotsk Sea and Bering Sea during the last deglaciation” by L. Max et al.

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Dear editor,

we are very grateful for such positive reviews of our manuscript "Pulses of enhanced North Pacific Intermediate Water ventilation from the Okhotsk Sea and Bering Sea during the last deglaciation". We thank you for handling of the manuscript and encouragement to submit a revised version. We also thank the two anonymous referees for several comments and suggestions, which helped to improve the manuscript.

In the following we have addressed all issues raised by the referees, amongst others the need to clearly define intermediate and deep-water, what is meant with ventilation

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or what changes in stable carbon isotopes telling us to avoid any misunderstandings. We revised several paragraphs in the manuscript to better distinguish between forcing and mechanisms of rapid circulation dynamics as proposed by climate model simulations to avoid any confusion to the reader. We also addressed the important issue of possible changes in paleo-reservoir ages in the manuscript, which cannot be constrained by our available data (in particular the lack of sufficient ¹⁴C datings to allow plateau tuning) achieved so far. However, we now discuss the limitations of our stratigraphy based on constant reservoir ages in the revised manuscript.

We are looking forward to your reply and hope that you will consider the revised manuscript for publication in Climate of the Past.

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