

Interactive comment on “Modeling variations of marine reservoir ages during the last 45 000 years” by J. Franke et al.

J. Franke et al.

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This paper is a GCM follow-up to Bard’s original box modeling work ... (Bard, Paleoceanography, 1988). ... While I think the original paper should be cited

Done

... I think this means that the authors should “tone down” the language in the paper that asserts that the calculated ages presented here should be used to correct planktonic foram ages. ... but I would be hesitant to directly apply the numbers used here to make new age models for any single core.

We agree with the reviewer that the modeled reservoir ages cannot be directly used to correct marine ¹⁴C ages at the present stage. We deemphasized the statement.

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Interactive Discussion

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*... I would like to see (and I think others would too) the results of the Glopis calculation.
.... I know this paper is about reservoir ages and not about deep ocean circulation, but
the authors have done an important calculation that many of us would like to use in our
own work. Could they please publish, as part of this paper, the Glopis based history of
atmospheric $\Delta^{14}\text{C}$ when run through the "PD" version of the UVic ESCM?*

We are happy to provide the additional information. However, the corresponding model result is beyond the scope of the manuscript. Hence, in order not to confuse the majority of readers, we decided to present the corresponding figure in the "Supplementary Material".

Interactive comment on Clim. Past Discuss., 4, 81, 2008.

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