

***Interactive comment on “A synthesis of marine sediment core  $\delta^{13}\text{C}$  data over the last 150 000 years” by K. I. C. Oliver et al.***

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I have read the authors' response to the two referee comments and thank the authors for their detailed and considerate response. Based on that, I encourage revision of the manuscript.

It appears that the authors are addressing the referee comments constructively, which is suitable to substantially improve the manuscript so that it could satisfy the referees. The revised manuscript will be evaluated again, most likely by the same referees who already reviewed the original manuscript. The editorial decision on publication in CP will naturally rely on their re-assessment.

As the chronological basis of the records is a major concern of the reviewers, a crucial

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aspect for this second review round will be that the chronological information of the accompanying paper by Hoogakker et al. will be accessible, ideally in manuscript form. Authors and editor should communicate on the timing and procedure to ensure this (as rightly suggested in the authors' response).

In addition, it appears important to justify and demonstrate in the text the validity and benefit of the streamlined age modeling approach that was chosen. This is particularly important because the approach deviates from the more common approach of establishing the best possible and most detailed age model for each core prior to further processing them.

Maximum accessibility of the data is of course vital for a data-paper like this, but I agree that it should, as outlined in the authors' response, be organised in a way that takes into account the sensitivities of primary-data producers.

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Interactive comment on Clim. Past Discuss., 5, 2497, 2009.

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