

## ***Interactive comment on “Amino acid racemization in Quaternary foraminifera from the Yermak Plateau” by Gabriel West et al.***

**Anonymous Referee #3**

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This is an interesting work examining the nuances in interpreting amino acid racemization data for Quaternary foraminifera from the Arctic realm. The manuscript is generally well-written. Some minor comments are listed below: Line 39 - Plethora - word choice - seems extreme 47 - sample mass instead of size 66 - compared with 120 - although of admittedly of minimal effect on racemization, I was still surprised that the samples were oven dried - just a general principle 132 - upper case L in microlitre 133 why hydrolyse for free amino acids? - they should be available anyway even at low diagenetic temperatures 160 - in terms of the criterion, it is not necessarily so 217 coring process - is it possible for some younger foraminifers to move down the side of the core? Perhaps comment on exactly where in the core the samples were collected - central portion? 239 - word choice 'rough estimate' - approximation or first order assessment? I also

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feel that some supporting discussion is merited on the validity of the rejection criterion  $L\text{-ser} > L\text{-asp} > 0.8$

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Interactive comment on Geochronology Discuss., <https://doi.org/10.5194/gchron-2019-5>, 2019.

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