

Interactive comment on “Temperature exerted no influence on the organic carbon isotope of surface soil along the isopleth of 400 mm mean annual precipitation in China” by Yufu Jia et al.

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General Comments: This study presents $\delta^{13}\text{C}$ data of TOC from surface soil across a great temperature gradient along the 400-mm precipitation isoline in China, with the objective to assess the effect of temperature on soil $\delta^{13}\text{C}$ values. It clearly shows no significant influence of temperature on soil $\delta^{13}\text{C}$. This finding is very important for the study of quantitative reconstruction of palaeoclimate using $\delta^{13}\text{C}$ of soil organic matter and therefore would be of great interest to the palaeoclimate and palaeoecology communities. This work appears to have been very carefully conducted, and it is a good paper, however, I think the discussion needs some shortening.

Specific Comments: Since all the soil samples were collected along the isopleth of 400

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mm mean annual precipitation, no effect of precipitation would be expected, I feel it is not necessary to discuss the influence of precipitation, and suggest the discussion would be reduced or even removed.

Technical Corrections: Although the written English is generally understandable, there are some inappropriate expressions and typo errors that need to be improved and corrected before final publication.

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