

Dear David,

Thank you very much for your positive reaction! We have implemented all suggested corrections and look forward to sharing MOSAIC with the community.

On behalf of all my co-authors,

Tessa

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Fm (Fraction modern) used frequently but not defined until legend to Fig 5 (line 458). → corrected, thank you

Line 197 - "includes is an"? → corrected, thank you

Lines 300 to 303, confusion.  $\delta^{13}C$  values show two distinct peaks, heavier marine vs lighter (more depleted) terrestrial, but you provide a single mean, median? E.g. Fig 3.b., in my training this distribution would not qualify as a normal (Gaussian) distribution. → corrected, thank you. Indeed, as the text indicated there are two distinct peaks, and a single mean does not accurately represent the distribution. We have now provided the two modes of the bimodal distribution, indicative of the aquatic and terrestrial sources of carbon.

Supplement line 72: repsecite? → corrected, thank you

Supplement contains section S3 twice? → corrected, thank you, all SI references have been double-checked.