

13 May 2024

**Executive editor decision: Publish subject to technical corrections**

Dear Dr. Campeny, I thank you for the integration of all remarks and suggestions arisen during the three rounds of revision. I'm glad to accept your paper for publication, following the advice provided by the Dr. Lissenberg, Topical Editor, after very minor technical corrections. Thank you again for submitting the results of your research to Solid Earth.

Best regards,

Andrea Di Muro, SE Executive Editor

Correction 1: a very very minor technical modification: at line 463 I suppose is the oxygen (18) and not the carbon isotope; please modify this minor misprint

Correction 2: at the beginning and along the whole paper, a more detailed description of the lithological composition of calcrete can be useful, in order better to clarify their genetic links with the other lithologies

Dear editor,

We greatly appreciate your overall comments and celebrate the acceptance of this article in Solid Earth.

It has been a pleasure to go through this review process. We sincerely believe that all the changes and suggestions made have contributed to enhancing our initial work.

Finally, we have also incorporated some additional final changes in response to the two specific corrections mentioned in your latest message, which we hope will be favorably considered.

Sincerely,

Marc Campeny