

Dear Dr. Rubatto,

We applied a final spelling and grammar check to our final submission. We also applied the changes suggested by Klaus Mezger. Therefore the accepted text was changed slightly, which did not change any sentence's meaning.

We must highlight that in the uploaded MSWord file ("Calcite U-PB dating in vesicular basalts Geochronology\_v6.docx"), the appendix and supplementary table is only inserted as place holder to keep the cross references in the main text updated during manuscript writing. Be aware that we left a note in the docx file. The Appendix (Appendix A, B and C) in its final form is comprised in the pdf file ("Calcite U-PB dating in vesicular basalts Geochronology\_final.pdf"). The supplementary tables in their final form are in the zip folder ("Supplementary Tables S1, S2, S3.zip").

Thank you very much for handling of our manuscript.

Best regards,

Johannes Rembe and Renjie Zhou on behalf of all co-authors