

Dear Dr. Stroeven,

We are pleased to submit our revised manuscript, titled “Relationship between meteoric ^{10}Be and NO_3^- concentrations in soils along Shackleton Glacier, Antarctica.” We are grateful for the time and effort you have taken to review our manuscript and provide suggestions to improve the writing.

In the attached documents, you will see our tracked changes for this revision and the line changes below. In brief, we have made all recommended changes and edited for spelling and grammar. We are excited to see this work published and thank you again for your time throughout the review process.

Best regards,

Melisa Diaz (on behalf of all authors)

A handwritten signature in black ink that reads "Melisa Diaz". The signature is written in a cursive style with a large initial "M" and a stylized "D".

Postdoctoral Scholar
Woods Hole Oceanographic Institution

Line comments:

Line 33 and throughout: We have taken care to review each usage of “suggest” and similar verbs to restrict the usage of these words to when they refer to the authors.

Line 50: We have made this correction.

Line 57: We have removed “distinct”.

Lines 67-69: We have rephrased this sentence. It now reads, “Antarctica is believed to have maintained a persistent ice sheet since at least the Eocene epoch, where paleorecords indicate that the East and West Antarctic Ice Sheets (EAIS and WAIS, respectively) have waxed and waned since at least the Miocene”

Line 72: We have replaced “with a grounding line...” with “[defined by] a grounding line...” We have also replaced “rapid” with “[more] rapid”.

Line 76: We have made this correction.

Line 126 and throughout: We have replaced meters (m) with meters above sea level (m.a.s.l.).

Line 133: We have added references on the stable versus dynamic EAIS debate.

Tables and figures:

Figure 1: We have updated this map to include an insert of the Transantarctic Mountains, centered on the Shackleton and Beardmore regions. All abbreviations are defined in the figure caption and the scale bar was updated.

Figure 3: All terms are now defined in the caption.

Figure 4: “i, ii, and iii” are now defined in the caption.

Figure 5: “serve” has been deleted.

Figure 8: The axes labels have been updated to reflect m.a.s.l.

All edits were made for the tables.