Author response to technical corrections.

Vance et al., “Optimal site selection for a high resolution ice core record in East Antarctica”

I have a couple of technical issues, mainly to do with clarifying figure captions. I am accepting the paper subjject to those corrections.

1. line 256, typo ,.

Removed full stop.

1. line 390 "a sites failure", I think the word "site" should be removed. Somehow it doesn't make sense anyway.

Reworded. Now reads “In this study, the requirement of high annual snowfall combined with a 1000–2000 year ice age within 300 m of the surface were the two primary criteria for site selection, as high accumulation generally precludes millennial-length records within 300 m of the surface.”

1. Fig 1. I am not sure I understand the red line in part b. If I look at the Antarctic Peninsula am I meant to assume that everything to the left of the line meets the criteria? Clearly this is not true as there are areas on both sides of the Peninsula below 1000 m but no red line delineating them on either side. Can you clarify this.

This was incorrect, as in panel b, the red lines (solid and dashed) delineate accumulation rates only, not elevation as well, which is discerned by the grey contours. We now state at the beginning of the figure caption (second sentence) that “Contour intervals (grey) are 500 m.” In addition, we have removed the phrase “are above the 1000 m contour” from the description of panel b.

1. Same caption: fuchsia is rather a specialised colour name. I actually have no idea what I am looking for on the figure - is it what looks like white areas?. Please use something more obvious.

Reworded, as this section of the caption also didn’t specify which panel of the figure we were referring to. Now reads: “Labelled boxes in panel (b) identify possible sites after site criteria 1–3 are assessed…”

1. I don't understand the caption to Fig 5b, please clarify - do you mean its the same as 1b?

Have reworded caption, which now reads, “Panel (a) shows a further enlargement of Figure 3b (elevation change in metres), with the existing Mt. Brown South ice core record identified (fuchsia dot), while panel (b) shows a further enlargement of Figure 1b (annual snowfall accumulation with <250 mm y−1 IE and <200 mm y−1 IE shown as solid red and dashed lines respectively.”