

Dear Editor,

We thank you for your comments and have now updated the manuscript in response to these:

“include Figure 1 as a normal figure and not in the supplementary material”

- The revised version now includes two figures instead of supplementary material as suggested. Reference to these figures have been amended in the text as appropriate.

“improve Figure 1”

- We have now amended this figure (Figure 2 in revised MS) in accordance with the comments including i) standard error replacing standard deviation, ii) clearer symbols for the standard errors (black squares instead of crosses) and modelled means (open circles instead of squares), and iii) y-axis labels added.

“figures appear to depict cumulative stocks”

- We decided to present cumulative soil C stock profiles because i) it provided a different type of profile to depth-based soil C stocks, whose profile was very similar to soil C concentration, and ii) it also presents an interesting mass-based reference. Given these points, and the focus on the method rather than the data *per se*, we would prefer to leave the cumulative soil C stock profiles in the manuscript. We have now amended the axis labels to make it clear that the C stocks are cumulative.

Kind regards,

Aidan Keith