

Referee 2:

I thank Maier et al. for their careful consideration of the reviewers' comments and for the revisions they have made. I have only a few minor comments remaining, and once these are addressed, the manuscript will be ready for publication in *Biogeosciences*. Thank you again to the authors.

Ref2C18: Line 94: Sorry if I wasn't clear in my communication. Calcaric Cambisol is correct terminology. Calcic Cambisol was not. You had named your profile a Calcic Cambisol, I was suggesting to change it to: **Calcaric Cambisol**.

Ref2C64: "and character" was a typo. Sorry for the confusion.

New minor comments:

Author names: there is an extra comma in: Maria, E.

Line 26: Plant residues

Line 53: is it: studying elevational SOC gradients and ? instead of studying studying.

Line 160: Aliquots.

Line 202: After, 5–10 min of cooling outside the bath, the vials were centrifuged

Line 234:235: 2 x pedogenetially? As in pedogenetically?

Line 355: Shwon