

***Interactive comment on “Synthesizing  
greenhouse gas fluxes across nine European  
peatlands and shrublands – responses to climatic  
and environmental changes” by M. S. Carter et al.***

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Thanks for the response to my earlier comment. I still feel that your statement on page 3713 “Longer enclosure periods may lead to non-linear development of headspace CO<sub>2</sub> concentrations over time, and subsequently to underestimation of flux rates if calculations are based on linear regression” needs a reference, and I thought our (or others) recent paper supports this statement.

Still, I feel that you did not clarify the potential effect of collar insertion on measured fluxes in the discussion (or I might have again overlooked it in which case please accept my apologies). Specifically, the final section “For this reason, generalized conclusions

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based on the mean responsiveness presented here should be drawn with caution. Especially, “we lack information on...” might require this addition; it is maybe not only due to a lack of information on NPP but rather the cutting of NPP supply to the rhizosphere? I only thought your discussion should consider this potential effect. Currently, I cannot see where you discussed this - I think that for any synthesis such information is an important piece of information and should be discussed alongside observed differences or trends etc.

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