

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 CO₂ 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.

Interactive comment on Biogeosciences Discuss., 9, 3693, 2012.

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