

Interactive comment on “Using Respiration Quotients to Track Changing Sources of Soil Respiration Seasonally and with Experimental Warming” by Caitlin Hicks Pries et al.

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We are pleased to report that we have included our R script for the analyses in this paper as part of the supplemental information. We have also made sharing R script sharing a policy for papers produced in my lab going forward. The data in this manuscript are now available on ESS DIVE (doi:10.15485/1596312).

We edited our second paragraph slightly. We still wanted to introduce apparent after respiration quotients are defined in their “ideal” form so as not to confuse the reader.

Specific changes we made to the manuscript:

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1: Soil respiration was redefined. 2: Cited Subke et al. 2006 3: Removed definition of OR and cleared up ARQ/RQ confusion. 4: Based on its elemental structure 5: Fixed 6: Added “same” 7: Started new paragraph. 8: I am not a fan of MASS: stepAIC() as I find it is too conservative in regards to the predictor variables it leaves in a model. I prefer to remove variables when their removal does not change the AIC or significantly change the results of the LRT based on Occam’s razor. The R code is now available so it can be replicated. 9: Started new paragraph. 10: We recalculated using this command, R squared were either the same or within 0.02. Great tip, thank you! 11: The R code is now SI. The data are on ESS DIVE. 12: Changed. 13: Defined the circles in the caption. 14: Thanks 15: Added. 16: ? 17: Yes, SOC. Good catch. 18: Since those conditions were met in our soils, we do not think discussing it further is relevant to this manuscript. There is a good discussion of it in the Angert paper we cited. 19. Thanks

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