

Interactive comment on “How to link soil C pools with CO₂ fluxes?” by Y. Kuzyakov

Y.-D. Wang

wangyidong58@gmail.com

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The manuscript by Y. Kuzyakov addresses a critical review of the linkage between soil carbon pools and CO₂ fluxes. I learned a lot how to link soil C pools with CO₂ fluxes using two main experimental approaches (uncoupled and coupled approaches). However, I am confused with the line of *C4/C3 in CO₂* in Fig. 3 (bottom). In my opinion, this line should be similar to the line of *C4/C3 in SOM* in the same figure. Furthermore, in contrast with dry soil, the soil carbon cycle and ¹³C signature of fluxes (CO₂ and CH₄) are different in wetland. Could you give some comments on how to link soil C pools with CO₂ and CH₄ fluxes in wetland? Thank you very much!

Sincerely Yours,

Yi-Dong Wang

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