

## ***Interactive comment on “How to link soil C pools with CO<sub>2</sub> fluxes?” by Y. Kuzyakov***

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The manuscript by Y. Kuzyakov addresses a critical review of the linkage between soil carbon pools and CO<sub>2</sub> fluxes. I learned a lot how to link soil C pools with CO<sub>2</sub> fluxes using two main experimental approaches (uncoupled and coupled approaches). However, I am confused with the line of *C<sub>4</sub>/C<sub>3</sub> in CO<sub>2</sub>* in Fig. 3 (bottom). In my opinion, this line should be similar to the line of *C<sub>4</sub>/C<sub>3</sub> in SOM* in the same figure. Furthermore, in contrast with dry soil, the soil carbon cycle and <sup>13</sup>C signature of fluxes (CO<sub>2</sub> and CH<sub>4</sub>) are different in wetland. Could you give some comments on how to link soil C pools with CO<sub>2</sub> and CH<sub>4</sub> fluxes in wetland? Thank you very much!

Sincerely Yours,

Yi-Dong Wang

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