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Interactive comment on “Landscape patterns of soil oxygen and atmospheric greenhouse gases in a northern hardwood forest landscape” by S. F. Werner et al.

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Since both aerobic/anaerobic processes and the substrates predominantly metabolised affect the ratio between CO₂ liberation and O₂ uptake, it would be interesting to include the exact stoichiometric equation at Page 10870 Line 3. So far the authors gave just the $r_2 = 0.82$ and the slope 0.94. At least, the equation $(-)\text{XX } \% \text{O}_2 = \% \text{CO}_2$ would be nice to see. Aside, Table 2 is not clear.

Related references Dilly O. (2003) Regulation of the respiratory quotient of soil microbiota by availability of nutrients. FEMS Microbial Ecology 43, 375-381 Dilly O., Nii-Annang S., Franke G., Fischer T., Buegger F., Zyakun A. (2011) Resilience of microbial

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respiration, respiratory quotient and stable isotope characteristics to soil hydrocarbon addition. *Soil Biology and Biochemistry* 43, 1808-1811

Interactive comment on *Biogeosciences Discuss.*, 8, 10859, 2011.

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8, C4458–C4459, 2011

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