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Comment

## ***Interactive comment on “Using O<sub>2</sub> to study the relationships between soil CO<sub>2</sub> efflux and soil respiration” by A. Angert et al.***

**S. Hall**

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Received and published: 18 February 2015

This is a very interesting and important study. I agree that Fe redox cycling could be part of the explanation for your finding of systematically low RQ in acidic soils. It might be useful to include a brief discussion of the magnitudes of Fe reduction and oxidation that would be necessary to explain the observed deviations in RQ from predicted values, and whether these are realistic in light of observed patterns of Fe reduction/oxidation in terrestrial soils. There have been some recent published estimates of soil Fe(II) concentrations and net rates of reduction/oxidation in terrestrial soils that could provide important context for your work.

best regards Steven Hall

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