

Interactive comment on “A global database of soil respiration data” by B. Bond-Lamberty and A. Thomson

Anonymous Referee #1

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This is a very well written and organized manuscript that described an important contribution to the literature and to an open-source database on soil respiration. I have only a few suggestions for minor improvements of clarity:

1. p. 1323, line 3: Insert “at least” before “twice as much”.
2. Section 3.3: How are differences in depths of measurement of soil temperature for Q10 calculations handled when the Q10 values are binned by temperature range? I see that depths are reported in the database, but are differences among soil depths used for these calculations ignored for the analyses present on page 1329?
3. Section 3.3: I find the last sentence of section 3.3 very confusing. I think this means that, after accounting for variation in reported soil temperature ranges among study

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sites, there is no further reduction in sums of squares attributable to the mean annual temperature of the study sites. This wording could be improved. Also, the sentence runs on to a second point about soil temperature maybe having a stronger effect than air temperature. I agree, but I suggest making this statement a separate sentence.

4. Figure 4: I suggest presenting intercepts and slopes for these regression lines, as has been provided in the Figure 6 legend.

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