Interactive comment on “A restructured and updated global soil respiration database (SRDB-V5)” by Jinshi Jian et al.

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Hello dear reviewer,

Thank you for your overall positive assessment and very useful comments on our manuscript. Below please see our response to your comments.

Thanks

Line 196: Table 2, 3, “Number of rows” “Number of rows” sounds very operational term. Should be replaced with “records” or something. Response: We agree, will change it to "number of records”.

Line 231: “did not change the distribution of annual Rs” I agree, but how about regional averages (e.g. south America, Africa etc.)? I guess in some areas, the new records in SRDB-V5 substantially increased the number of observations and probably changed the annual Rs average and distribution. Response: We will change the topic sentence accordingly.

Line 325: “Tang et al. n.d., Yao et al. n.d.” Please include the year for these two papers. Response: Thank you for pointing out this, we will update the citation and add the year information.

Line 371: “interoperability” Does your team have any plan to start “data standardization, submission/acceptance, curation, data base construction, and distribution of raw data” platform for soil respiration, like Fluxnet? Response: This is a great idea, unfortunately, this have not been done in this version of SRDB, but maybe considered in the next version of updating.

Line 379: “providing flexible R scripts in a Github repository for end users”. It is not clear that the R scripts are for what? Response: We will describe the R script in more detail in the revision.

Fig. 1 Can you improve the appearance of this figure? Response: I am not sure whether you are talking about Figure 2, as we think Figure 1 is pretty straightforward and clear. If you are talking about Figure 2, we actually tried multiple ways and found the current version of Figure 1 is the best, but we can try to make the background color lighter and see whether it is better.