

## ***Interactive comment on “Characteristics of soil profile CO<sub>2</sub> concentrations in karst areas and its significance for global carbon cycles and climate change” by Qiao Chen***

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Thanks for the reviewer's comments and recommendation for possible publication, and I have revised the manuscript as followings: Question: Page 2 Line 51, "no detail documents detailing. . . .", "detail" is repeated here; Response: Yes, it is repeated, i have corrected it. Question:Page 2 Line 81-82, "among which only Ordovician and Permian Strata appear together", the sentence is not clear, what does this sentence means?; Response: the part "among which only Ordovician and Permian strata appear together" should be deleted here. Question:Page 4 Line 129, what does "significantly congressed at 0.005 level, it should be " significant correlation at 0.005 level" or not?;

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Response: Yes, it should be "significant correlation at 0.005 level. Question:Page 6 Line 169-170, " Results are given. . . .areas", the sentence is not clear, rewrote the sentences. Response: the sentence should be "Results are given in Fig.4, among which, Fig. 4 a-h, indicate profiles in carbonate areas and Fig. 4 i-l indicate those in non-carbonate (shale) areas." Question:Page 6 Line 177, "which means" is repeated here; Response: Yes, it is deleted. Question:I would like to suggest the author show the suitable map for Figure. 1. Maybe the exact location can be shown by the general location and then in 2 or 3 step so as to be acquainted by other researchers. Response: Good suggestion, We revised the picture, which includes "Yunan province" "Zhaotong City" and " the locations of Zhengxiong and Weixing county" Question:The unit for the ordinate in Figure.6 should be provided Response: we have added the unit(%).

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