

Interactive comment on “Community-weighted mean traits but not functional diversity determine the changes of soil properties during wetland drying on the Tibetan Plateau” by Wei Li et al.

Wei Li et al.

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List of responses to the comments- SE-2016-149 Dear Editor, First of all, we highly appreciate your valuable comments and suggestions on our manuscript entitled by “Community-weighted mean traits but not functional diversity determine the changes of soil properties during wetland drying on the Tibetan Plateau”(No. SE-2016-149). Based on the reviewers' comments, we have made a thorough revision on the original submission. The revision has covered all the questions raised from the reviewers. We hope you are satisfied with the revised version, however, if there is more question, we are willing to revise it again. The below are the detailed responses to the reviewers' comments. Yours faithfully, Wei Li

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In answer to Reviewer #1 1.P2 Line 34 change comma to period after typical meadow. P2 Line 34 change “four CWM trait” to “Four CWM traits”. P2 Line 37 change “functional richness; functional evenness; and functional divergence” to “functional richness, functional evenness, and functional divergence”. Reply: In this revision edition, we have corrected them. 2.P2 Line 47 change “soil C/N properties” to “soil C and N properties” Reply: In this revision edition, we have accepted and corrected it. 3.P3 Line 73 change “succession” to “successional”. P3 Line 84 please delete “the value of” . P4 Line102 Change “traits diversity” to “trait diversity”. P4 Line 112 please add comma after leaf area (LA) Reply: In this revision edition, we have corrected them. 4.P4 Line 142-143 please rewrite the temperature unit Reply: In this revision edition, we have rewritten the temperature unit. 5.P6 Line 151 please add comma after structures.P6 Line 160 please add comma after species and vegetation. Reply: In this revision edition, we have corrected them. 6. P7 Line 201 Please rewrite this sentence and make sure it is correct. Reply: In this revision edition, we have corrected it. where S is species richness, P_i is the proportional cover of species i , and $trait_i$ is the trait value of species i . 7.P7 Line 205 do you mean “some of the indices of functional diversity” Reply: Yes, you are right, and we have rewritten it. 8.P7 Line 208 please add comma after “FEve”. P8 Line 216 it should be “a principal components analysis” Reply: We have accepted and corrected them. 9.P8 Line 223 please delete “the”. P8 Line 228 It should be “there were also significant differences...”. P9 Line 239 please delete “the” before wetland. P9 Line 244 change totally to completely. P9 Line 245 it should be “to the process of wetland drying”. P9 Line 250 change “higher” to “greater” .P9 Line 252 change that to those Reply: Thanks for your suggestions. We have accepted and corrected these. 10. P9 Line 255-256 do you mean “the dominant driving factor with wetland drying” Reply: Yes, we have accepted and corrected it. 11.P9Line 267 it should be “significantly positive correlations” .P10 Line 287 change “of” to “for”. P10 Line 290 delete “the ” before grass species. P10 Line 295 It should be taller plants (e.g., *D. caespitosa*). P11Line 299 delete “the” before functional diversity. P11 Line 300 it should be “significant changes”. P12 Line 336 it should be “relationships among CWM traits, functional

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diversity, and soil properties". P12 Line 337 "a PCA analysis" Reply: Thanks for your suggestions. In this edition, we have accepted and corrected them. 12.P12 Line 356 change "remained" to "yielding". Reply: We have changed this word. 13.P12 Line 357 do you mean "some ecosystem models ..." Reply: Yes, you are right, and we have corrected it. 14.P13 Line 360 please delete positive Reply: We have deleted it. 15.P13 Line 375-376 I'm not sure I understood what you were trying to say here, do you mean "which would predict that trait diversity would lead to a greater efficiency of nutrient use", right? Reply: Yes, you are right. In this edition, we have corrected it.

Interactive comment on Solid Earth Discuss., doi:10.5194/se-2016-149, 2016.