

## ***Interactive comment on “Variation of soil hydraulic properties with alpine grassland degradation in the Eastern Tibetan Plateau” by T. Pan et al.***

### **Anonymous Referee #2**

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1. The study analyze the effects of alpine grassland degradation on soil hydraulic properties in Tibetan Plateau. Nine sites representing various degradation degrees were selected, and field and laboratory experiment were applied. The study give the confident results by the abundant data and detailed explanation, and it will contributing to understand the soil hydrological effects of vegetation degradation. However, there are several minor problems need to improve before the manuscript can be accept. 2. The conclusion focus on the effects of CP and NCP on FC and Ks, and it should be improved to express more content of research. 3. At the 2.1 part, the VC, DS, and NS were selected as indicators of degradation, the VC is explained before, while the DS and NS need explains here. 4. “Mean values of NCP decreased from LD to MD by 6.6% while increased from MD to LD by 4.4%, following the order of LD>SD>MD.”, the presentation is error. 5. The explanation of letters above the bars in Figure 5 and

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Figure 6 need improve, and the name of figure 5 need to change. 6. The axis shows of figure 7 is not clear. 7. Monte-Carlo permutation test used in the manuscript to get the Table 3 needed to explain.

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