Thanks for the very nice revision! From my point of view, the authors well addressed the comments from the other two reviewers and me, and the manuscript is now in a good shape. I believe this study is very valuable to the community. Here are some of my remaining minor remarks:

L273: the “()” is redundant.
L400: please double check the usage of GCD<0 and GCD>0 in this section. For example, GCD<0 sometimes means mostly-grazed, but means mostly-cut in other cases.
L421: Hr should be Rh.

Table 1: The NBE can not be obtained from the values presented in the table. It would be helpful to give values for all the components of NBE and ΔSOC. In addition, it is not clear what is the meaning of C flux into soil. Does it include litter and manure?

L434: It is not clear what are included in the “high inputs of C to soils”, litter + manure? Does manure from refinement included in this study? If not, it should be mentioned and discussed. Because it will cause an underestimation of C input for grassland.

L600: I would think it would be helpful to use the meaningful parameters’ name (e.g., PNUE, or LCA) rather than the Code of parameters (e.g., P10, and P15) across the manuscript.