

Interactive comment on “Multiyear precipitation reduction strongly decrease carbon uptake over North China” by W. P. Yuan et al.

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In our study, we used four models to investigate the impacts of drought on carbon uptake considering the uncertainty of individual model. Three light use efficiency models (i.e. CASA, MODIS and EC-LUE) aim to examine the GPP changes, and IBIS model is to investigate the responses of GPP, ecosystem respiration and net ecosystem production. The referee suspected whether CASA have been used validly due to the low model performance of GPP compared with previous CASA model validation results of . I agree with the referee, because CASA model is designed to simulate NPP not GPP, and it is not appropriate to use it in this study. So, we want to exclude the results on CASA model. Thus, in our study, MODIS and EC-LUE models were used to examine the impacts of drought on GPP, and IBIS model for GPP, ecosystem respiration and

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net ecosystem production. The results can still provide the comprehensive information on the impacts of drought on ecosystem, which is the major objective of this study. We hope the referee and editor can reconsider and make decision refer to our revisions.

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