Geoscientific
Model Development
Discussions

Interactive comment on "Influences of calibration data length and data period on model parameterization and quantification of terrestrial ecosystem carbon dynamics" *by* Q. Zhu and Q. Zhuang

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In this revised manuscript, we addressed two major issues mentioned by the reviewers: (1) data dissimilarity problem; (2) RMSE is a biased criterion to evaluate model performance. For the first problem, we replaced two AmeriFlux sites that have relative short observation records (5 years and 4 years) with two sites that have 7-years and 8-years data. These two AmeriFlux sites have the longest published data for shrubland and boreal forest. We re-did the calibration experiments and updated the results in the revision. For the second issue, we employed two other metrics including Mean

Absolute Percentage Error (MAPE) and Nash-Sutcliffe efficiency coefficient (NSE) as supplementary criteria to assess our model performance.

Interactive comment on Geosci. Model Dev. Discuss., 6, 6835, 2013.