***Comments from the Reviewers:***

***Reviewer #1 (Formal Review for Authors):***

*The authors now included a paragraph discussing the implications of the simpe lon-lat-month-year model. However, I still miss a specific statement that one has to be careful not to confuse model performance at local scale to its reliability at global scale, e.g.*
*"This illustrates that an excellent model performance for the FLUXNET sites does not neccessarily imply an equivalent prediction skill in other regions."*
*Concerning the second paragraph, I suggest*
*"...its potential for estimating GPP without local observations"*
*and also here remind the reader what this method was:*
*"Another validation method in which the validation data were not selected randomly but instead sites were entirely used for either training or validation also showed similar..."*
**REPLY:** Thank you for your careful and detailed suggestion. We have fully adopted your suggestion in the revised version. Revisions have been made in the method, results and discussions.