

Interactive comment on “Linking canopy reflectance to crop structure and photosynthesis to capture and interpret spatiotemporal dimensions of per-field photosynthetic productivity” by Wei Xue et al.

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1. The presented research is interesting and relevant to the readership of Biogeosciences. The measurements and analyses appear to be sound. However, I would recommend thorough language editing as the manuscript contains grammatical errors and, occasionally, uncommon phrasings that make it a bit difficult to understand the content at times. Reply: A careful English edition on the precious version has been done. Please check the updated MS. 2. P11, L9-10: “They imply that: : .”, this sentence contains interpretations of the results, which I would rather avoid in the

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results chapter. The same applies to: P11, L18-19; P11, L 27-28; P13, L6; P13, L17-18. Reply: The word “imply” in results chapter was replaced by “suggest”. 3. P9, L30: I would recommend to use the word “dramatically” here. Reply: Done 4. P11, L 2: “predicated” should read “predicted”, I suppose. Reply: Done 5. Fig. 3: it would be helpful to add a legend of treatment symbols. In the y-axis labels, “umol” should read “ μmol ”, I think. In the caption, it should read “gross primary productivity”, in my understanding. Reply: Legend was added in Figs. 3, 4 and 7. Correct unit and terminology were added. 6. Fig. 4: add legend of treatment symbols. Reply: Legend was added in Figs. 3, 4 and 7. 7. Fig. 5: In the caption, it should read “gross primary productivity”, “stages” (instead of “stags”) and “are” (instead of “ere”). Reply: Correct terminology and word were added. 8. Fig. 6: “stages”. Reply: Done 9. Fig. 7: item (d) is missing in the caption. Reply: Done 10. Fig. 8: x-axis label is missing. Reply: Done
Thanks for your useful comments.

Please also note the supplement to this comment:

<http://www.biogeosciences-discuss.net/bg-2016-492/bg-2016-492-AC1-supplement.pdf>

Interactive comment on Biogeosciences Discuss., doi:10.5194/bg-2016-492, 2016.

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