

Interactive comment on “Applying biomass and stem fluxes to quantify temporal and spatial fluctuations of an old-growth forest in disturbance” by S. Liu et al.

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Dear Referee #1,

We would like to express our sincere thanks to you for the comments. Your suggestions helped to improve the paper and all comments have been considered in the revised manuscript. Here are our detailed responses to the relevant comments.

A) Responses to the Referee’s general comments

General Comments: This study is in on monsoon climate old-growth forest disturbances during twelve-year period. The biotic disturbance was an insect affecting Lau-

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raceae trees. The abiotic disturbance was two landslides on a 1 hectare study area. The manuscript is worth publishing because there are not many studies on this subject. The title and the abstract describe the manuscript adequately. The methods applied scientific and conclusions are justified. The abiotic disturbance studied was landslides. How about climate? Did you observe precipitation or temperature anomalies and did they have any effect?

Response: Thanks a lot for your positive comments on our manuscript. Just like you said, there are few studies that are concerned on the topic about applying biomass and stem fluxes to quantify temporal and spatial fluctuations. Hence, more research about this topic should be worth and interesting. In our paper, the abiotic disturbance studied was landslides, according to our precipitation and temperature data that observed in the study period, we found there are few fluctuation of microclimate in the monsoon evergreen forest, this is clarified in the newly worded text. Here, we also would like to say, as you noticed, we emphasize that the main goal of the paper is more to present the method of biomass and stem fluxes to study the monsoon climate old-growth forest in the disturbances during twelve-year period, we appreciate your question very much, we will do the further experiment to see the precipitation or temperature anomalies over a long time period and how to effect the stability of an old growth forest with our methods that applied in this paper.

B) Responses to the Referee's specific comments

1. In text, tables and figures units should be expressed in uniform way. Please use $\text{Mg ha}^{-1} \text{ a}^{-1}$, instead of $/\text{ha}$ or t x ha^{-1} .

Response: Units have been corrected by your suggestion.

2. In 3.3.1 page 2731 line 14 text should be corrected. It is copy of text on line 7.

Response: Sorry for typing mistake, it has been corrected.

3. In Figure 7. B and D, leave Interval I away, because it is not in the material presented

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Response: Yes. We have taken it away.

4. in the Figure 7. In Figure 8. color scale is not optimal to distinguish between classes 0N, 5N, 10N.

Response: Totally agreed. We have adjusted the color scale so as to distinguish between classes 0N, 5N, 10N.

C) Summary

We wish to thank the referee for the valuable comments again, which help us to improve the manuscript considerably. We hope that you would find our revised ms to be satisfactory for the publication in Biogeosciences.

Sincerely, Yuelin Li (for the authors)

Interactive comment on Biogeosciences Discuss., 6, 2723, 2009.

BGD

6, C1021–C1023, 2009

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