

Interactive
Comment

Interactive comment on “Influence of the Asian Monsoon on net ecosystem carbon exchange in two major plant functional types in Korea” by H. Kwon et al.

Anonymous Referee #1

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This paper reported the depression of GPP corresponding with the depression of solar radiation, and thus increase of NEE at the Monsoon rainy season at GDK and HFK sites in Korea.

1. The expression 'depression of NEE' is mistakable. NEE increases if CO₂ absorption is depressed in rainy season.
2. There is no figure about HFK site in Fig. 5.
3. As the authors pointed out, carefull assessment on the influence of gap filling is critical in this analysis. I feel that the additional figure and analysis on the RE, GPP and their relationship with solar radiation and SWC, and how they interpolated, are

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needed. Is it really because of the depression of GPP which caused the decrease of CO₂ absorption at rainy season? It might be caused by the increase of RE. If actual RE increased with rainfall and the authors used the simple relationship between RE_{max} and temperature for gap filling, then RE might be underestimated and thus GPP might also be underestimated at rainy season.

4. Too many figures and Tables on climate conditions. I feel that Table 1 is prolific as we have Fig 5. The information on Fig.1 and Fig.3 can be sorted out to one figure or perhaps in Fig. 5. The difference between four sites including Muroran and Takayama can be sorted out in one figure.

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