

**Dear Dr. Jens-Arne Subke,**

Many thanks to you for your helpful and valuable comments. We made the corrections as you suggested. The detailed corrections were listed below and italicized in blue color.

With best regards,  
Tianshan and all coauthors

Detail corrections:

p. 12, 14-8: Please edit: “In contrast, many studies in forests and grasslands report that topographic heterogeneity in Rs can be suitably explained by spatial heterogeneity in Ts and SWC (Kang et al., 2003; Liu et al., 2010)”. (I.e. delete “Spatial variation in Ts and SWC is reported to contribute to the spatial variation in Rs in forest ecosystems.”)

*Re: We deleted sentence “Spatial variation in Ts and SWC is reported to contribute to the spatial variation in Rs in forest ecosystems.”, and the statement was revised as “In contrast, many studies in forests and grasslands report that topographic heterogeneity in Rs can be suitably explained by spatial heterogeneity in Ts and SWC (Kang et al., 2003; Liu et al., 2010)”. See P. 11, L. 21-23 in the revised manuscript.*

P. 30, l. 9/10: Please edit: “Error bars represents standard errors” (not “Error bar represents...”), and delete “Black color represents for whole period.”

*Re: We revised “Error bars represents standard errors” as “Error bars represent standard errors” and deleted “Black color represents for whole period.”. See P. 28, L. 9 in the revised manuscript.*

Figure 6 caption still states “Figure 5”!

*Re: We revised “Figure 5” into “Figure 6” in the revised manuscript. See P. 31, L. 3.*