



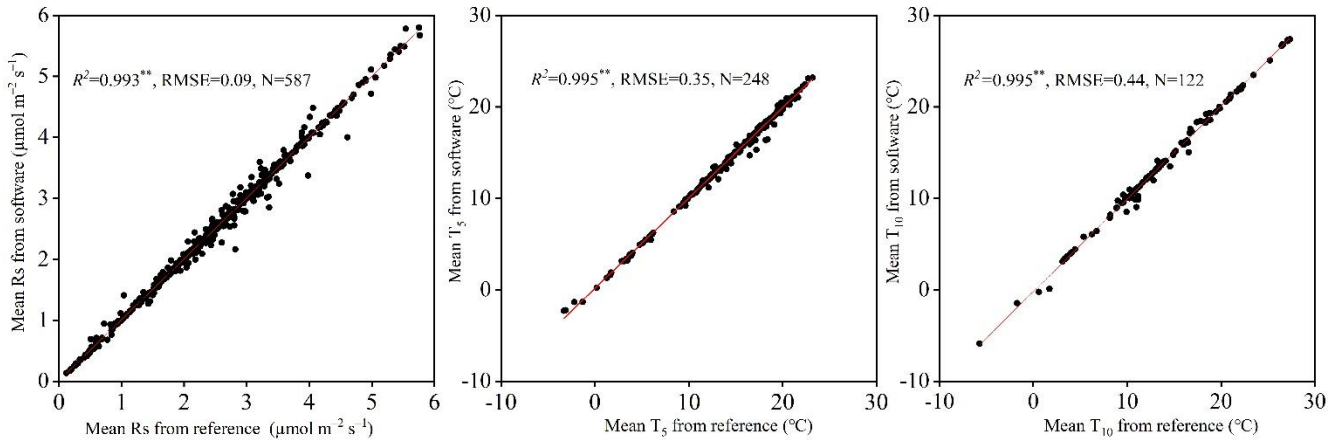
Supplement of

A compiled soil respiration dataset at different time scales for forest ecosystems across China from 2000 to 2018

Hongru Sun et al.

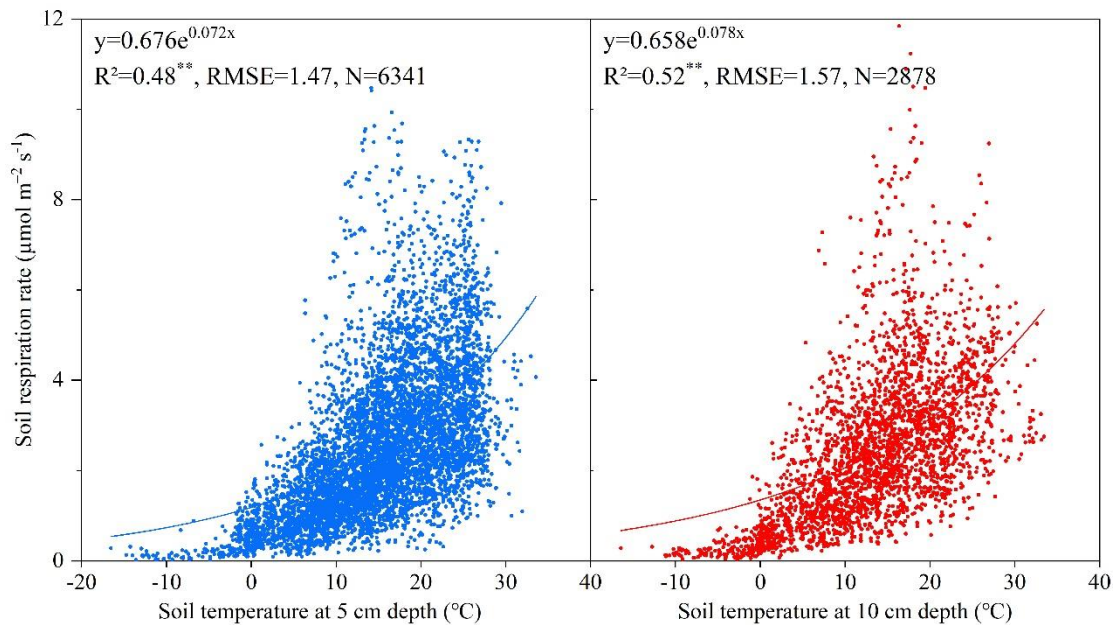
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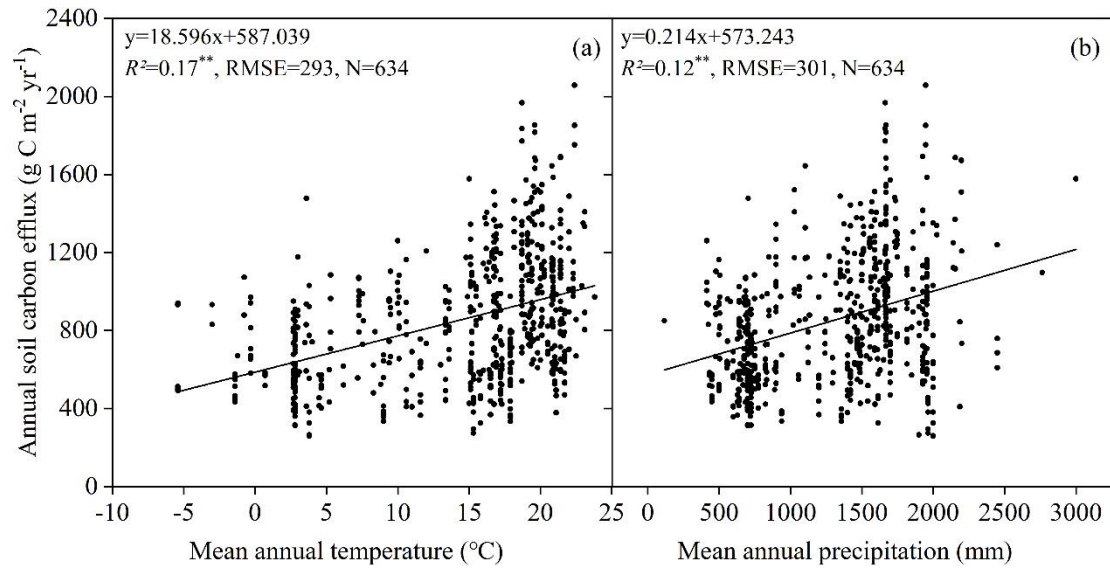
2 **Figure S1.** Validation of mean soil respiration rate (R_s), soil temperature at 5 cm depth
 3 (T_5) and 10 cm depth (T_{10}). The X axis stands for the means directly collected from the
 4 original studies, and the Y axis stands for the averaged values from the extracted data
 5 with a graphic digitizing software (WEBPLOTDIGITIZER) during the corresponding
 6 observation period. P value below 0.01 was described by **. RMSE: Root Mean Square
 7 Error. The same as below.

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10 **Figure S2.** Exponential relationships of soil respiration rates with soil temperature at 5
 11 cm depth and 10 cm depth in forest ecosystems across China.



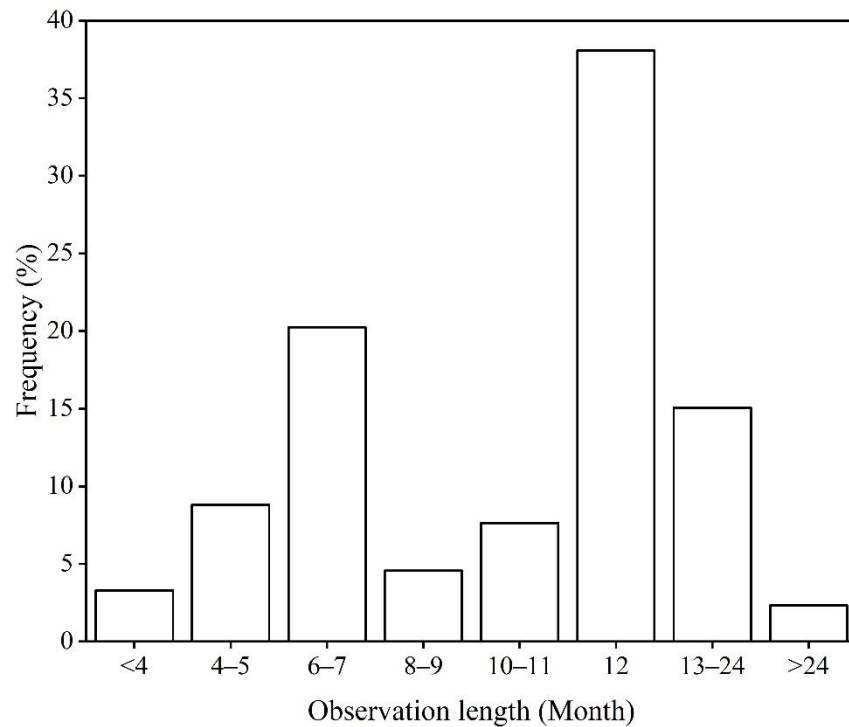
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13 **Figure S3.** The relationships of annual soil carbon efflux with (a) mean annual

14 temperature and (b) mean annual precipitation in forest ecosystems across China.

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18 **Figure S4.** Frequency distributions of the length of the individual time series from the

19 different sites.