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Corrigendum: Biomass heat storage dampens diurnal temperature variations in forests (2019 *Environ. Res. Lett.* <u>14 084026</u>)

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CORRIGENDUM

Corrigendum: Biomass heat storage dampens diurnal temperature variations in forests (2019 *Environ. Res. Lett.* **14** 084026)

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A coding error was found and corrected in the implementation of the leaf energy storage, causing an underestimation of this storage. A corrected version of the code can be found at: https://github.com/RonnyMeier/ctsm/tree/ERL-106754_corrected. For any future work, please use the code from this repository instead of the repository mentioned at the end of section 2.1 on page 3.

After this correction, the diurnal range of the biomass heat flux in figure 1 is increased by 3.98 W m⁻² on average (area-weighted mean, figure C1). The impact on temperature, however, is very limited and the main conclusions of the study remain unchanged (figure C2; Note that the values on the color scale of this figure are a factor of 10 smaller than the values of figure 2 in the original manuscript).

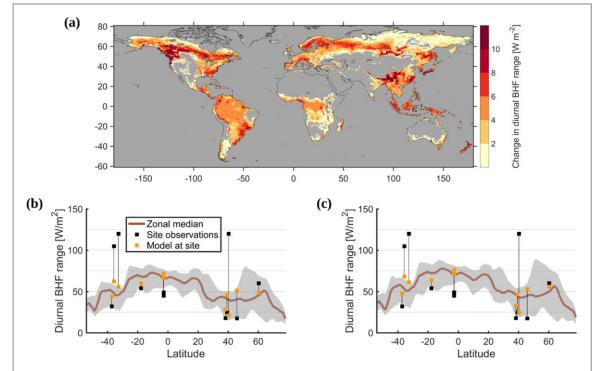


Figure C1. Panel (a) displays the change in the diurnal range of the biomass heat storage fluxes averaged over all plant functional types (PFTs) caused by the correction of the leaf energy storage. Panels (b) and (c) show the zonal median (brown line) and the range between the 10% and 90% percentile (gray shaded area) of the diurnal range averaged over all forest PFTs with the original version of the code (b) and the corrected code (c). Black squares depict different observational studies and the orange squares corresponding modeled values connected by a black string.

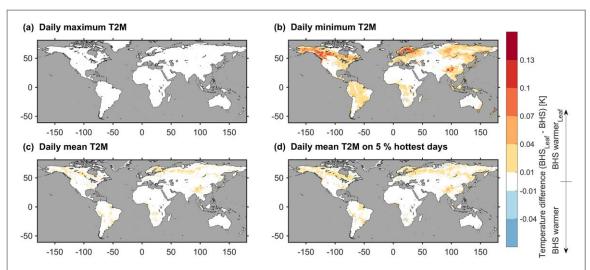


Figure C2. Difference of the corrected version (CLM-BHS_{Leaf}) minus the original version (CLM-BHS) during boreal summer (JJA) in (a) daily maximum, (b) daily minimum, and (c) daily average 2 m air temperature. Panel (d) displays the daily average 2 m air temperature difference of CLM-BHS_{Leaf} minus CLM-BHS during JJA averaged over the days when the atmospheric temperature exceeded its 95% percentile.

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