



Supplement of

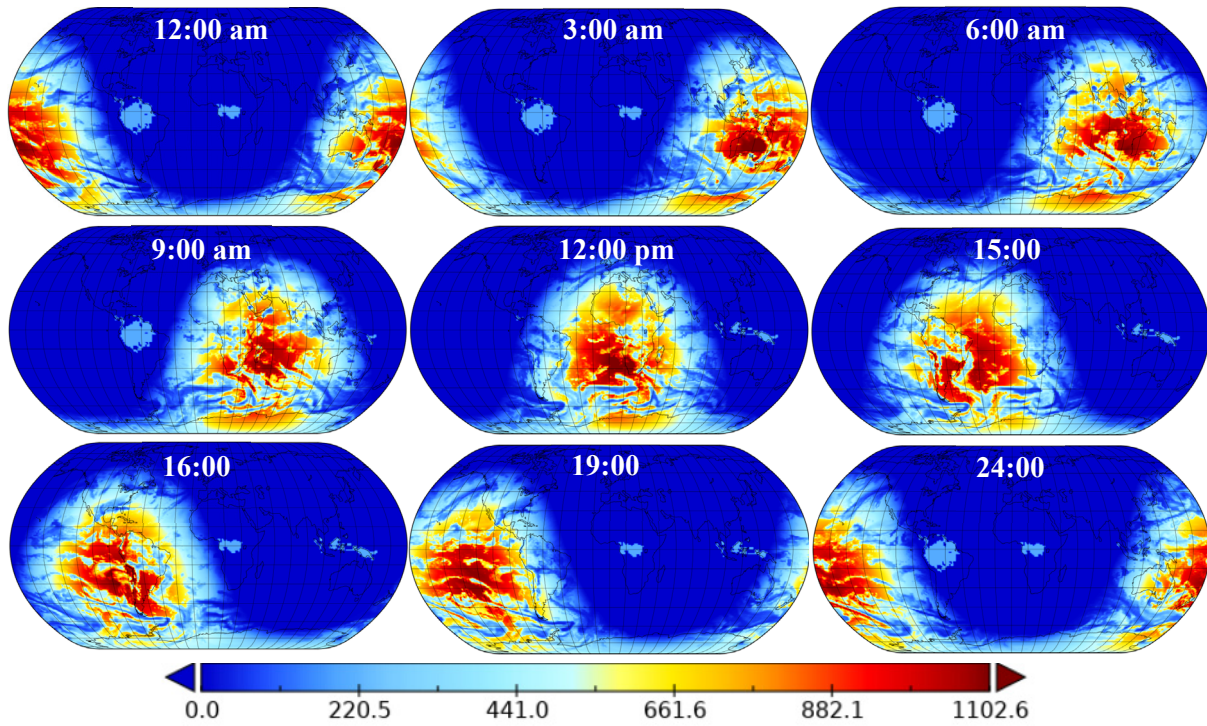
Exploration of a novel geoengineering solution: lighting up tropical forests at night

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Fig. S1. Global surface downward shortwave radiation for 24 hours since the start of the nighttime lighting experiment at 12:00 am January 1st 2015 (UTC time) under $200\text{W}/\text{m}^2$ nighttime lighting power.



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Fig. S2. 24-hour African Tropical Forest Responses

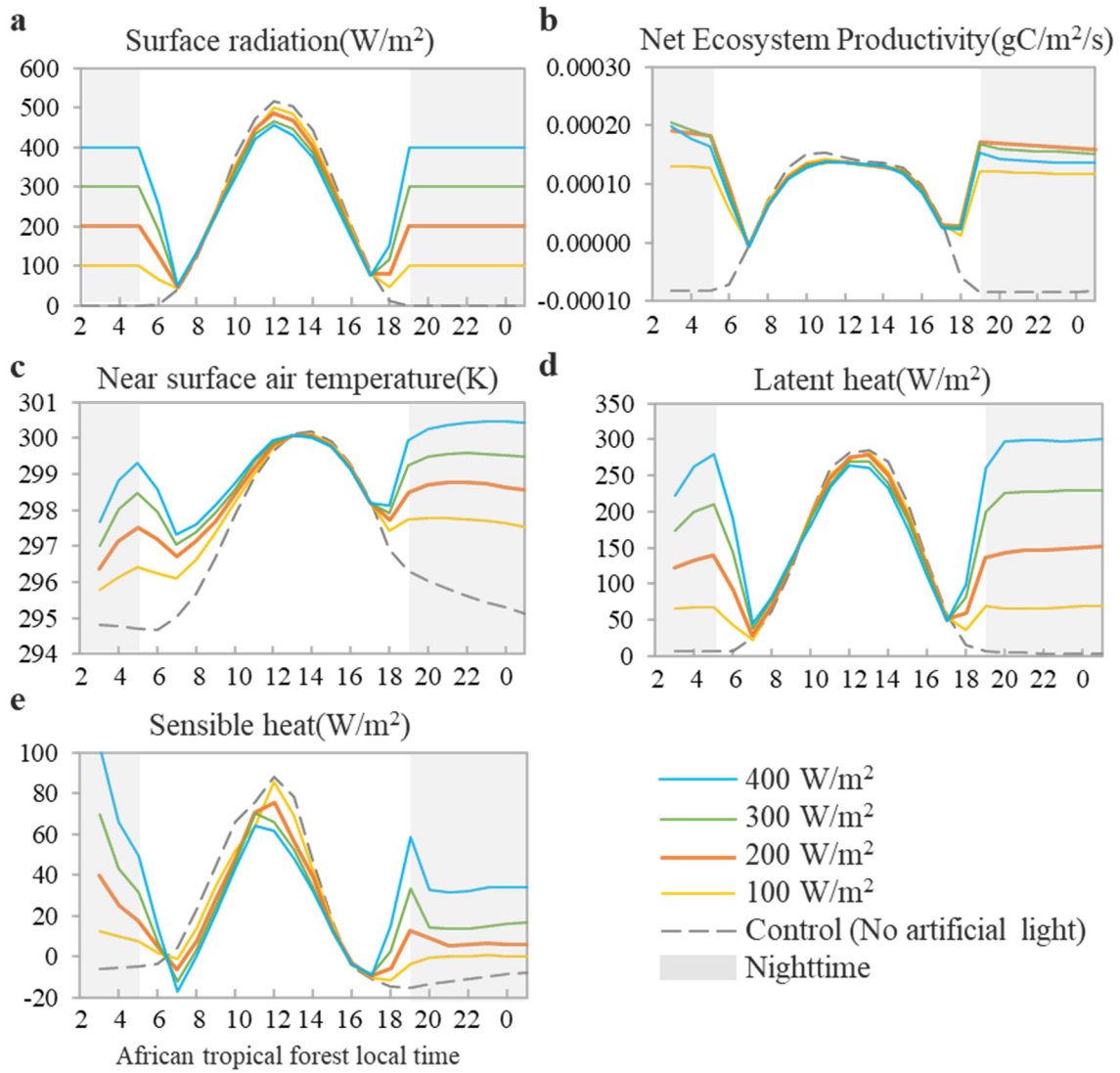


Fig. S3. 24-hour Asian Tropical Forest Responses

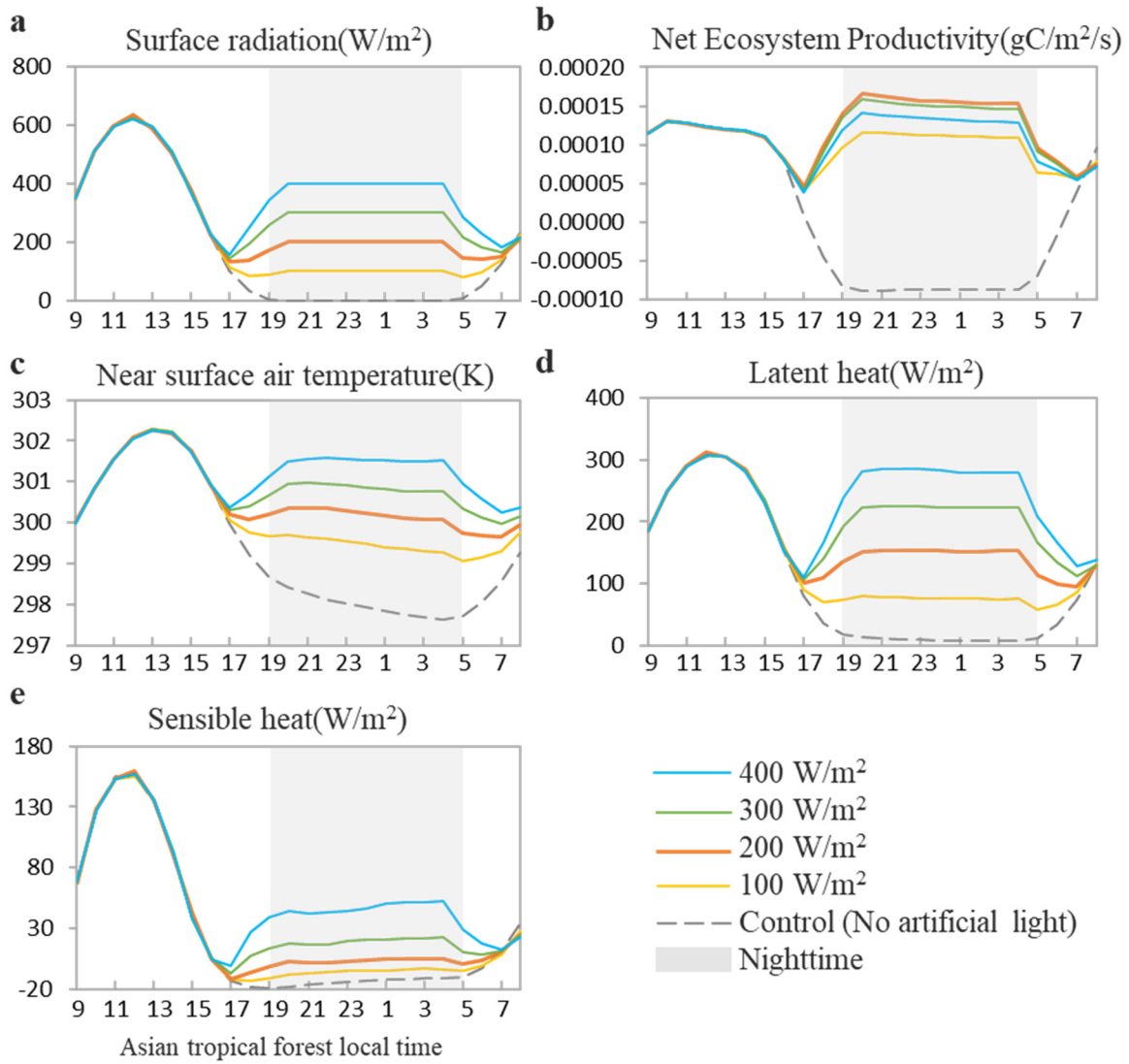


Fig. S4. Seasonal pattern of tropical forests air temperature and precipitation increase under the lighting experiment.

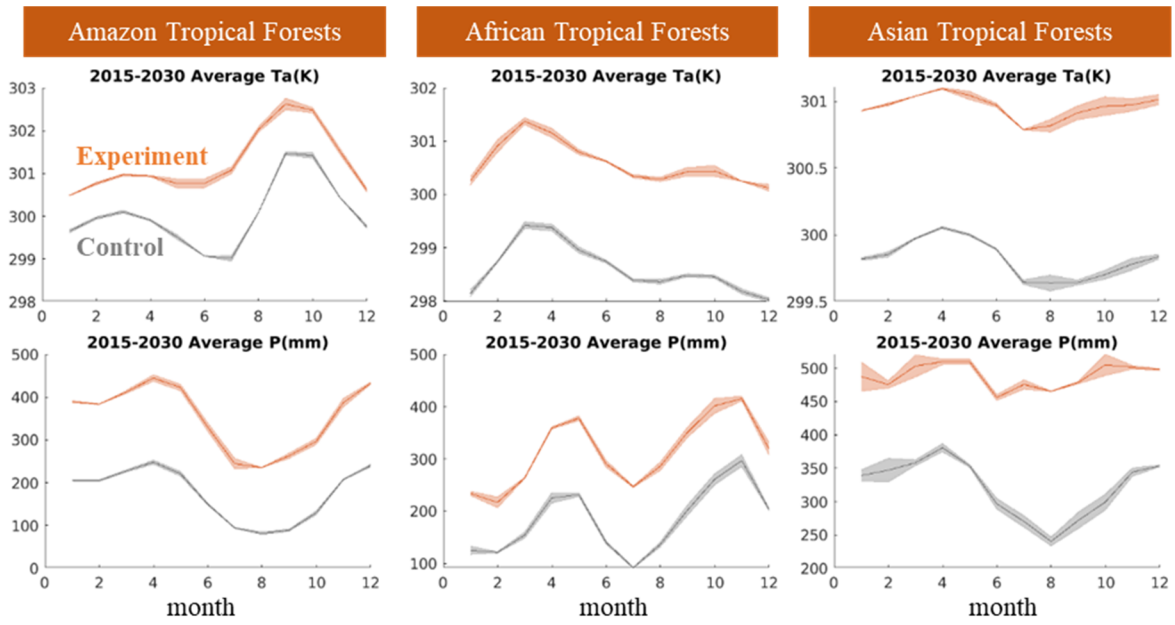


Fig. S5. Amazonian Tropical Forest Carbon Flux, Carbon Amount, and Climate Responses. CL in panel (j): coarse woody debris and litter.

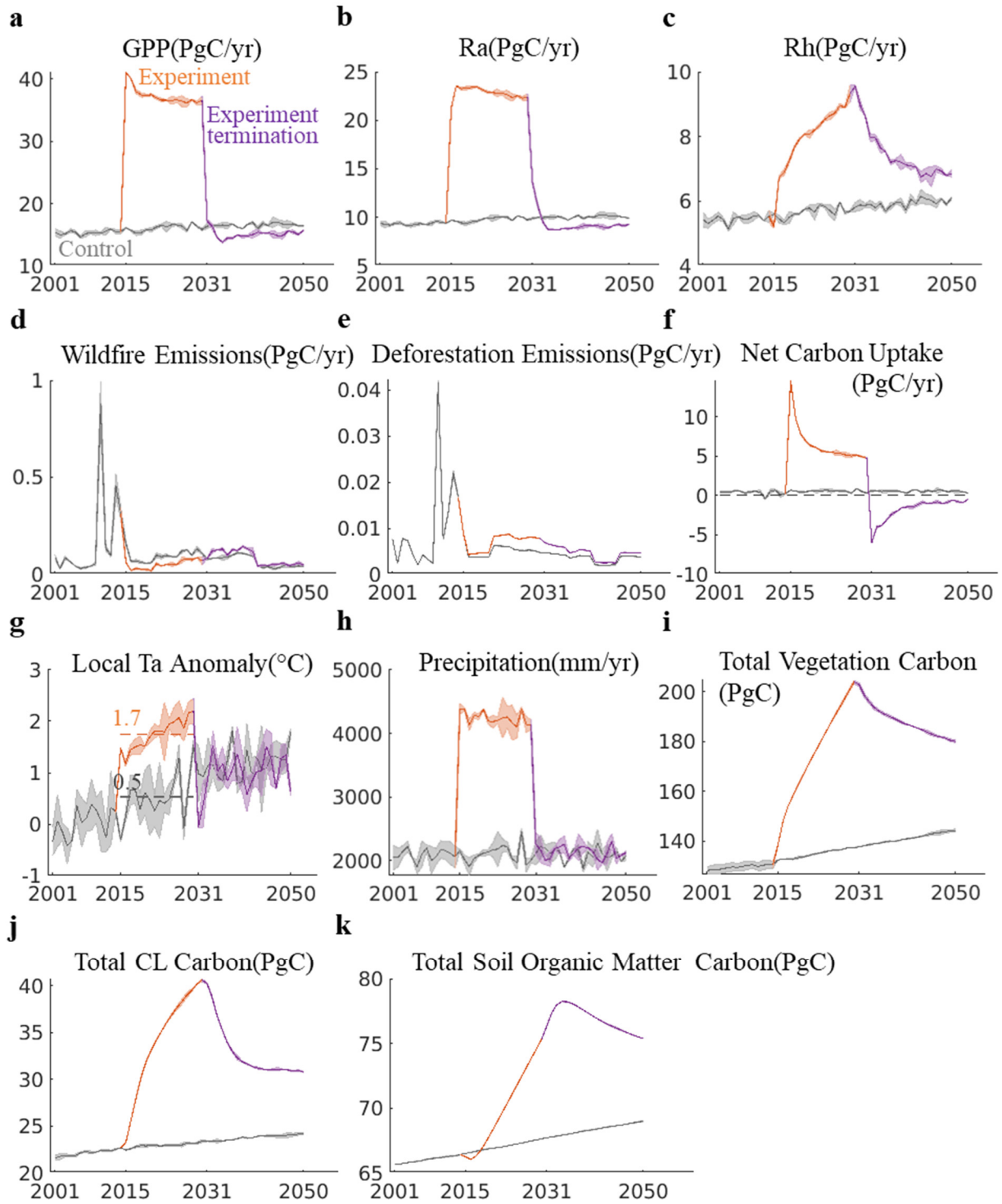


Fig. S6. African Tropical Forest Carbon Flux, Carbon Amount, and Climate Responses. CL in panel (j): coarse woody debris and litter.

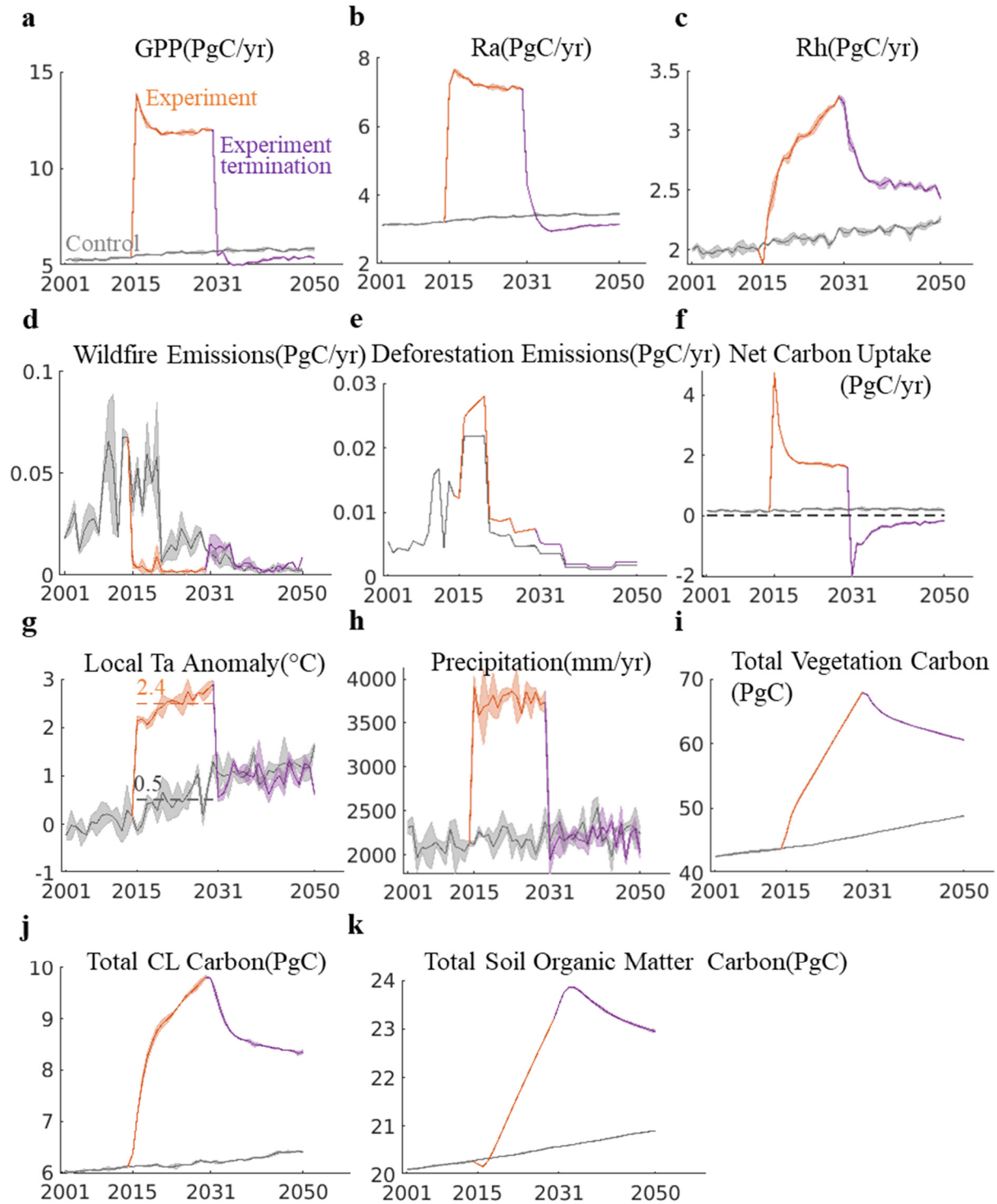


Fig. S7. Asian Tropical Forest Carbon Flux, Carbon Amount, and Climate Responses. CL in panel (j): coarse woody debris and litter.

