**Supplemental Table 1.** Change in climate variables calculated as the area-weighted difference between the experimental and control case. Significance of change is indicated with p-values, reported in parentheses.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | ***Region*** | ***wNA*** | ***Amazon*** | ***wNA+Amazon*** |
| ΔT (K/day) | Eurasia | *-*0.5 *(<0.001)* | -0.12 *(0.2)* | -0.7 *(<0.001)* |
| ΔVPD (kPa/day) | Southeastern North America  | 1.9 *(0.1)* | -0.8 *(0.5)* | -0.81 *(0.3)* |