**Table S2*:***Adult and pupal mass were significantly correlated with thorax length, and adult mass with wing length and area, but these size correlations did not vary between the different temperature treatments, sexes or populations (as indicated by the non-significant interaction terms).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | | ***df*** | ***MS*** | ***F*** | ***p*** |
| Adult mass | |  |  |  |  |  |
|  | Thorax (length) | | 1 | 219274.29 | 31.70 | ***<0.001*** |
|  | Temperature | | 2 | 31130.68 | 4.50 | ***<0.05*** |
|  | Sex | | 1 | 227702.41 | 32.92 | ***<0.001*** |
|  | Population | | 4 | 6727.35 | 0.97 | 0.43 |
|  | Thorax × Temperature | | 2 | 7350.94 | 1.06 | 0.35 |
|  | Thorax × Sex | | 1 | 8455.57 | 1.22 | 0.27 |
|  | Thorax × Population | | 4 | 6170.86 | 0.89 | 0.48 |
|  | Error | | 51 | 6917.61 |  |  |
| Adult mass | |  |  |  |  |  |
|  | (Forewing) Area | | 1 | 219191.00 | 35.02 | ***<0.001*** |
|  | Temperature | | 2 | 26571.32 | 4.25 | ***<0.05*** |
|  | Sex | | 1 | 128693.09 | 20.56 | ***<0.001*** |
|  | Population | | 4 | 13414.35 | 2.14 | 0.09 |
|  | Area × Temperature | | 2 | 2076.53 | 0.33 | 0.72 |
|  | Area × Sex | | 1 | 185.01 | 0.03 | 0.86 |
|  | Area × Population | | 4 | 4873.23 | 0.78 | 0.54 |
|  | Error | | 46 | 6258.69 |  |  |
| Adult mass | | |  |  |  |  |
|  | (Forewing) Length | | 1 | 130814.24 | 21.47 | ***<0.001*** |
|  | Temperature | | 2 | 17283.72 | 2.84 | 0.07 |
|  | Sex | | 1 | 161154.91 | 26.45 | ***<0.001*** |
|  | Population | | 4 | 17604.05 | 2.89 | 0.06 |
|  | Length × Temperature | | 2 | 134.69 | 0.02 | 0.98 |
|  | Length × Sex | | 1 | 8993.24 | 1.48 | 0.23 |
|  | Length × Population | | 4 | 7083.46 | 1.16 | 0.34 |
|  | Error | | 42 | 6092.68 |  |  |
| Pupal mass | |  |  |  |  |  |
|  | Thorax (length) | | 1 | 1178844.90 | 54.46 | ***<0.001*** |
|  | Temperature | | 2 | 215315.48 | 9.95 | ***<0.001*** |
|  | Sex | | 2 | 274842.02 | 12.70 | ***<0.001*** |
|  | Population | | 4 | 5580.11 | 0.26 | 0.90 |
|  | Thorax × Temperature | | 2 | 41635.96 | 1.92 | 0.16 |
|  | Thorax × Sex | | 2 | 16196.46 | 0.75 | 0.48 |
|  | Thorax × Population | | 4 | 25710.75 | 1.19 | 0.33 |
|  | Error | | 58 | 21647.41 |  |  |