**Supplementary Table.** AIC table of AICc and Log Likelihood (LL) values for each possible iteration of the model[[1]](#footnote-1), where K is the number of parameters in the model. Interaction denoted by ‘**×**’

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Model names | K | AICc | ΔAICc | LL | Cum.Wt |
| season | 6 | 1281.293 | 0 | -634.372 | 0.377433 |
| season + MinT | 7 | 1282.86 | 1.566783 | -634.061 | 0.549865 |
| season + leaf number | 7 | 1282.994 | 1.700878 | -634.129 | 0.711115 |
| season × MinT | 10 | 1283.13 | 1.837061 | -630.827 | 0.861751 |
| season + leaf number + MinT | 8 | 1284.587 | 3.294515 | -633.817 | 0.934436 |
| season × leaf number | 10 | 1286.498 | 5.205195 | -632.511 | 0.962396 |
| season + leaf number × MinT | 9 | 1286.741 | 5.448194 | -633.771 | 0.987158 |
| season × leaf number + MinT | 11 | 1288.403 | 7.110314 | -632.31 | 0.997944 |
| 1[[2]](#footnote-2) | 3 | 1293.15 | 11.857041 | -643.498 | 0.998949 |
| leaf number | 4 | 1294.714 | 13.420711 | -643.228 | 0.999408 |
| MinT | 4 | 1295.141 | 13.848003 | -643.441 | 0.99978 |
| leaf number + MinT | 5 | 1296.78 | 15.487312 | -643.195 | 0.999943 |
| leaf number × MinT | 6 | 1298.901 | 17.607933 | -643.176 | 1 |
| Month | 1 | 40001.8 | 0 | -19999.9 | 1 |

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**Supplementary Fig. 1** Bottom-up view of the sampler used to measure *M. scutellaris* populations in the field. The wire is used to push the plants down in the water, while the dark colour of the plastic contrasts with the light coloured insects.

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**Supplementary Fig. 2** Sampling water hyacinth biomass in the field using the quadrat method (white plastic square)

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**Supplementary Fig.** **3** The relationship between (A) the number of leaves per plant and (B) the above water biomass (kg/m2) against increasing minimum temperature (℃)

1. Mixed effects model specifying random effect for ‘month’ [↑](#footnote-ref-1)
2. Null model (random intercept term only) [↑](#footnote-ref-2)