|  |  |  |  |
| --- | --- | --- | --- |
| ***(a). Response variable: Forewing area*** | | | |
| **Predictor** | **DF** | **χ2** | **p** |
| **Sex** | **1** | **41.02** | **<0.001\*\*\*** |
| **Year** | **1** | **4.95** | **0.026\*** |
| **Overwintering status** | **1** | **25.65** | **<0.001\*\*\*** |
| **East vs. west** | **1** | **3.60** | **0.058** |
| **Latitude** | **1** | **7.82** | **0.005\*\*** |
| **Daylength index** | **1** | **3.63** | **0.057** |
| **Overwintering status \* East vs. west** | **1** | **5.01** | **0.025\*** |
| ***(b). Response variable: Forewing elongation*** | | | |
| **Predictor** | **DF** | **χ2** | **p** |
| **Sex** | 1 | 3.68 | **0.055** |
| Year | 1 | 1.83 | 0.176 |
| Overwintering status | 1 | 1.60 | 0.205 |
| East vs. west | 1 | 1.43 | 0.232 |
| **Latitude** | **1** | **5.32** | **<0.021\*** |
| **Daylength index** | **1** | **3.47** | **0.062** |
| Overwintering status \* East vs. west | 1 | 0.97 | 0.325 |