|  |  |  |
| --- | --- | --- |
| **Predictors** | **FOREWING** | **HINDWING** |
| **Dorsal** | **Ventral** | **Dorsal** | **Ventral** |
| ***Est.*** | ***SE*** | ***df*** | ***t*** | ***Est.*** | ***SE*** | ***df*** | ***t*** | ***Est.*** | ***SE*** | ***df*** | ***t*** | ***Est.*** | ***SE*** | ***df*** | ***t*** |
| (Intercept) | 108.57 | 97.65 | 36.20 | 1.11 | 102.94 | 89.83 | 14.85 | 1.15 | 58.12 | 95.97 | 22.33 | 0.61 | -4.04 | 81.13 | 51.59 | -0.05 |
| Latitude | -0.68 | 1.63 | 31.53 | -0.42 | 0.57 | 1.46 | 7.73 | 0.39 | 0.79 | 1.58 | 14.02 | 0.50 | 2.55 | 1.14 | 47.23 | **2.24** |
| Mean 10-year annual temperature (T10) | 5.30 | 2.73 | 55.68 | 1.94 | 3.06 | 2.61 | 53.36 | 1.17 | 3.34 | 2.72 | 53.47 | 1.23 | 3.44 | 2.73 | 57.30 | 1.26 |
| Temperature during development | -2.45 | 1.35 | 41.23 | -1.81 | -2.79 | 1.33 | 40.12 | **-2.10** | -2.53 | 1.38 | 37.05 | -1.83 | -2.94 | 1.49 | 39.02 | **-1.97** |
| Years colonised | 0.05 | 0.14 | 32.18 | 0.38 | 0.12 | 0.13 | 8.50 | 0.91 | 0.05 | 0.14 | 15.16 | 0.33 | 0.09 | 0.11 | 37.72 | 0.90 |
| **Random Effects** |
| σ2 | 109.94 | 98.47 | 100.51 | 85.77 |
| τ00 | 48.07 Julian day difference | 35.43 Julian day difference | 36.54 Julian day difference | 24.06 Julian day difference |
|  | 54.23 Grid.10km:Expansion | 58.75 Grid.10km:Expansion | 64.16 Grid.10km:Expansion | 90.58 Grid.10km:Expansion |
|  | 183.10 Expansion | 51.47 Expansion | 85.30 Expansion | 0.00 Expansion |
| ICC | 0.72 | 0.60 | 0.65 | 0.57 |
| N | 43 Grid.10km | 43 Grid.10km | 43 Grid. 10km | 43 Grid. 10km |
|  | 2 Expansion | 2 Expansion | 2 Expansion | 2 Expansion |
|  | 53 Julian day difference | 53 Julian day difference | 53 Julian day difference | 53 Julian day difference |
| Observations | 709 | 709 | 642 | 641 |
| Marginal R2 / Conditional R2 | 0.06 / 0.74 | 0.06 / 0.62 | 0.04 / 0.66 | 0.16 / 0.64 |
| Significant *t* values with a magnitude greater than 1.96 are indicated in bold.σ2= Residual variance; τ00 = Random effect variance; ICC= Interclass correlation coefficient |