**Supplement 3.** Overview of species reared at different temperatures, their origin (including latitude) and numbers of egg clutches.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Species | Origin | Latitude | Study years | # of egg clutches | *Topt*[°C] | S.E. | *Q10* | S.E. | *rmax* | S.E. | *R*2 | Investigator |
| *Crocothemis erythraea* (Brullé) | Germany | 52.3 | 2010 | 1 | 28.5 | 0.5 | 2.68 | 0.27 | 0.115 | 0.01 | 0.95 | I. Suhling |
| *Crocothemis sanguinolenta* (Burmeister) | Namibia | -21.8 | 2010 | 1 | 26.3 | 0.7 | 2.00 | 0.20 | 0.056 | < 0.01 | 0.90 | N. Ahlburg |
| *Diplacodes lefebvrii* (Rambur) | Namibia | -21.8 | 2010 | 1 | 30.7 | 0.6 | 2.11 | 0.12 | 0.112 | < 0.01 | 0.99 | I. Suhling |
| *Leucorrhinia dubia* (Vander Linden) | Sweden | 63.9 | 2011 | 4 | 28.2 | 0.4 | 2.08 | 0.12 | 0.049 | < 0.01 | 0.96 | H. Schmidt, I. Suhling |
| *Leucorrhinia dubia* (Vander Linden) | Sweden | 59.9 | 2008 | 2 | 27.0 | 0.1 | 1.88 | 0.02 | 0.028 | < 0.01 | 0.99 | F. Suhling |
| *Leucorrhinia dubia* (Vander Linden) | Sweden | 57.0 | 2010, 2011 | 3 | 28.1 | 0.3 | 2.21 | 0.09 | 0.049 | < 0.01 | 0.99 | H. Schmidt, I. Suhling |
| *Leucorrhinia dubia* (Vander Linden) | Germany | 52.6 | 2011 | 4 | 28.6 | 0.8 | 2.36 | 0.29 | 0.037 | < 0.01 | 0.92 | S. Leisner, H. Schmidt, I. Suhling |
| *Leucorrhinia pectoralis* (Charpentier) | Germany | 52.3 | 2008, 2013 | 2 | 28.1 | 0.3 | 2.04 | 0.08 | 0.052 | < 0.01 | 0.99 | F. Suhling, V. Pasternack |
| *Leucorrhinia rubicunda* (Linnaeus) | Germany | 52.6 | 2010 | 2 | 29.4 | 1.1 | 2.09 | 0.28 | 0.037 | < 0.01 | 0.91 | I. Suhling |
| *Libellula depressa* Linnaeus | Germany | 52.3 | 2013 | 1 | 28.8 | 0.3 | 2.22 | 0.09 | 0.085 | < 0.01 | 0.99 | V. Pasternack, F. Suhling |
| *Libellula quadrimaculata* Linnaeus | Germany | 52.6 | 2010 | 3 | 27.9 | 1.1 | 1.88 | 0.19 | 0.046 | < 0.01 | 0.90 | J. Malmquist |
| *Orthetrum cancellatum* (Linnaeus) | Germany | 52.3 | 2008 | 1 | 30.0 | 0.2 | 2.07 | 0.03 | 0.028 | < 0.01 | 0.99 | K. Michaelis, M. Roehrs |
| *Orthetrum cancellatum* (Linnaeus) | France | 43.5 | 2010 | 1 | 27.1 | 0.8 | 2.12 | 0.17 | 0.031 | < 0.01 | 0.92 | J. Malmquist |
| *Orthetrum coerulescens* (Fabricius) | Sweden | 57.0 | 2008 | 1 | 27.1 | 0.8 | 1.79 | 0.15 | 0.025 | < 0.01 | 0.89 | F. Suhling |
| *Orthetrum coerulescens* (Fabricius) | Germany | 52.3 | 2008 | 1 | 26.8 | 0.4 | 2.21 | 0.12 | 0.034 | < 0.01 | 0.94 | F. Suhling |
| *Orthetrum trinacria* (Selys) | Namibia | -21.8 | 2010 | 2 | 29.9 | 0.8 | 2.23 | 0.23 | 0.076 | 0.01 | 0.97 | I. Suhling |
| *Sympetrum striolatum* (Charpentier) | Germany | 52.3 | 2007, 2008 | 2 | 28.4 | 0.9 | 1.92 | 0.16 | 0.095 | 0.01 | 0.94 | M. Strehr, I. Suhling |
| *Sympetrum vulgatum* (Linnaeus) | Germany | 52.3 | 2008 | 1 | 26.6 | 0.6 | 1.90 | 0.14 | 0.053 | < 0.01 | 0.92 | M. Strehr |
| *Tramea basilaris* (Palisot de Beauvois) | Namibia | -21.8 | 2010 | 1 | 29.7 | 0.3 | 2.42 | 0.11 | 0.166 | 0.01 | 0.99 | I. Suhling |