Vatka, E., Rytkönen, S. & Orell, M. “Does the temporal mismatch hypothesis match in boreal populations?” – Online resource 1

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Table S1. Numbers of nests per year that were used for determining the annual median laying dates (LD) and in the analysis for the mean nestling mass (MNM) and the number of fledged young (NF).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Year | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 |
| Great tit LD | 34 | 91 | 120 | 97 | 128 | 96 | 93 | 69 | 56 | 48 | 48 | 74 | 138 | 74 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Year | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1995 | 1996 | 1997 |
| Great tit LD | 21 | 28 | 64 | 75 | 57 | 37 | 44 | 38 | 27 | 18 | 11 | 33 | 36 | 27 |
| Great tit MNM | - | - | - | - | - | - | - | - | - | - | - | - | 12 | 12 |
| Great tit NF | - | - | - | - | - | - | - | - | - | - | - | - | 11 | 11 |
| Willow tit MNM | - | - | - | - | - | - | - | - | - | - | - | - | 83 | 79 |
| Willow tit NF | - | - | - | - | - | - | - | - | - | - | - | - | 83 | 79 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Year | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
| Great tit LD | 64 | 116 | 80 | 87 | 78 | 78 | 79 | 69 | 112 | 133 | 112 | 113 | 105 | 126 |
| Great tit MNM | 17 | 51 | 54 | 79 | 73 | 69 | 30 | 66 | 99 | 96 | 62 | 68 | 77 | 66 |
| Great tit NF | 17 | 55 | 56 | 78 | 72 | 70 | 31 | 66 | 99 | 95 | 62 | 68 | 78 | 64 |
| Willow tit MNM | 102 | 122 | 128 | 81 | 58 | 75 | 93 | 97 | 89 | 85 | 81 | 61 | 59 | 62 |
| Willow tit NF | 102 | 123 | 128 | 81 | 58 | 75 | 93 | 98 | 89 | 84 | 81 | 61 | 59 | 61 |
| Blue tit LD | 16 | 22 | 19 | 27 | 21 | 29 | 15 | 24 | 36 | 34 | 39 | 40 | 28 | 31 |
| Blue tit MNM | 16 | 18 | 19 | 19 | 16 | 20 | 11 | 21 | 28 | 29 | 35 | 29 | 21 | 28 |
| Blue tit NF | 16 | 16 | 19 | 19 | 15 | 20 | 8 | 21 | 28 | 28 | 35 | 28 | 21 | 27 |
|  | | | | | | | | | | | | | | |

Table S2. Numbers of great tit nests per year and per sub-area for which laying dates are known.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Year | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 |
| Taskila a | 23 | 51 | 45 | 27 | 41 | 28 | 32 | 23 | 28 | 27 | 28 | 36 | 62 | 28 |
| Sanginsuu b | (2) | 17 | 30 | 28 | 37 | 26 | 25 | 19 | 14 | 9 | 11 | 20 | 42 | 27 |
| Kiviharju |  | (1) | 10 | 8 | 8 | 8 | 9 | 4 | 3 | 4 | 4 | 6 | 11 | 6 |
| Vittasuo c | 9 | 11 | 17 | 18 | 19 | 16 | 18 | 15 | 11 | 8 | 5 | 12 | 23 | 13 |
| Lintumaansuo |  | (1) | 4 | 5 | 9 | 9 | 5 | 4 |  |  |  |  |  |  |
| Jokikylä d |  | 4 | 8 | 8 | 8 | 7 | 4 | 4 |  |  |  |  |  |  |
| Räinänperä |  | 6 | 6 | 3 | 6 | (2) |  |  |  |  |  |  |  |  |
| Total | 34 | 91 | 120 | 97 | 128 | 96 | 93 | 69 | 56 | 48 | 48 | 74 | 138 | 74 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Year | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1995 | 1996 | 1997 |
| Taskila a | 10 | 10 | 29 | 23 | 22 | 18 | 25 | 15 | 25 | 17 |  |  |  |  |
| Sanginsuu b | 7 | 11 | 20 | 22 | 12 | 5 |  |  |  |  |  |  |  |  |
| Kiviharju | (1) | (1) | 5 | 6 | (2) |  |  |  |  |  |  |  |  |  |
| Vittasuo c | 3 | 6 | 10 | 9 | 7 | 5 | 9 | 11 | (2) |  | (1) | 12 | 19 | 10 |
| Rissasentie |  |  |  |  |  |  |  |  |  |  | 10 | 14 | 14 | 16 |
| Oinaansuo |  |  |  | 15 | 14 | 9 | 10 | 12 |  | (1) |  | 7 | 3 | (1) |
| Total | 21 | 28 | 64 | 75 | 57 | 37 | 44 | 38 | 27 | 18 | 11 | 33 | 36 | 27 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Year | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
| Vittasuo c | 32 | 45 | 32 | 36 | 25 | 20 | 29 | 23 | 41 | 54 | 42 | 41 | 31 | 42 |
| Rissasentie | 23 | 45 | 26 | 27 | 24 | 26 | 26 | 25 | 31 | 37 | 33 | 33 | 32 | 32 |
| Rusko e |  | 15 | 15 | 15 | 19 | 23 | 17 | 17 | 26 | 25 | 25 | 32 | 32 | 39 |
| Oinaansuo | 9 | 11 | 7 | 9 | 10 | 9 | 7 | 4 | 14 | 17 | 12 | 7 | 10 | 13 |
| Total | 64 | 116 | 80 | 87 | 78 | 78 | 79 | 69 | 112 | 133 | 112 | 113 | 105 | 126 |
| a Taskila and Kiviharju combined (Orell & Ojanen 1983c)  b Sanginsuu, Loppula and Isokangas combined (Orell & Ojanen 1983c)  c Vittasuo, Tuiranhovi and Uikulaisjärvi combined (Orell & Ojanen 1983c), later extended to north/northeast  d Jokikylä and Onkamo combined (Orell & Ojanen 1983c) | | | | | | | | | | | | | | |

Table S3. Definition of explanatory variables included in the analysis of breeding success in the great tit, the blue tit and the willow tit.

|  |  |
| --- | --- |
| Variable | Definition |
| synchrony | The difference between the day when the nestlings are 10 days old and the caterpillar peak date.  *synchrony = hatching date + 10 – caterpillar peak date* |
| synchrony2 | Quadratic term of ’synchrony’. |
| timing | The relative timing of hatching within the study population.  *timing = hatch date – annual median of hatch dates* |
| timing2 | Quadratic term of ’timing’. |
| peak | Caterpillar peak height, maximum value of caterpillar biomass recorded that year. |
| fage | Female age as factorial with three levels: yearling, older, or unknown age. |
| density | Breeding density. Tor the great and the blue tit the annual proportion of monitored nest boxes with first clutches; for the willow tit the number of breeding pairs per square kilometer. |
| brood | Brood size, number of hatched young. |
| synchrony × peak | Interaction terms included in the analysis |
| synchrony2 × peak |
| synchrony × fage |
| synchrony2 × fage |
| synchrony × density |
| synchrony2 × density |
| synchrony × brood |
| synchrony2 × brood |
| timing × peak |
| timing2 × peak |
| timing × fage |
| timing2 × fage |
| timing × density |
| timing2 × density |
| timing × brood |
| timing2 × brood |
| peak × fage |
| peak × density |
| peak × brood |

Table S4. Scaling factors of the continuous explanatory variables (arithmetic mean and 2\*standard deviation in parentheses) and the number of fledged young (mean and SD in parentheses) for the analysis of breeding success in the great tit, the blue tit and the willow tit.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Mean nestling mass** | | | | |  | **Number of fledged young** | | | | |
| **Variable** | Great tit |  | Blue tit |  | Willow tit |  | Great tit |  | Blue tit |  | Willow tit |
| synchrony | -1.480 (11.775) |  | -3.497 (10.759) |  | -9.151 (13.560) |  | -1.398 (11.798) |  | -3.565 (10.826) |  | -9.154 (13.587) |
| timing | 0.205 (9.115) |  | 0.048 (7.740) |  | 0.165 (7.489) |  | 0.153 (9.200) |  | -0.027 (7.809) |  | 0.190 (7.517) |
| caterpillar peak height | 0.334 (0.426) |  | 0.338 (0.430) |  | 0.336 (0.436) |  | 0.336 (0.429) |  | 0.337 (0.426) |  | 0.336 (0.436) |
| breeding density | 0.331 (0.139) |  | 0.299 (0.146) |  | 4.643 (2.138) |  | 0.331 (0.138) |  | 0.301 (0.144) |  | 4.645 (2.139) |
| brood size | 8.494 (3.608) |  | 10.068 (3.561) |  | 7.454 (3.008) |  | 8.494 (3.628) |  | 10.056 (3.585) |  | 7.453 (3.008) |
| number of fledged young |  |  |  |  |  |  | 6.337 (2.246) |  | 7.870 (2.600) |  | 6.668 (1.859) |

Table S5 Top models (ΔAIC < 2) describing the mean nestling mass in A) the great tit, B) the blue tit and C) the willow tit. w is the weighting parameter. ’syn’ = synchrony with the caterpillar peak (see text for details) ‘timing’ = timing of hatching in relation to the annual median, ‘peak’ = the caterpillar peak height, ‘Fage’ = female age (yearling/older/unknown), ‘density’ = breeding density, ‘brood’ = brood size. For the blue tit, models with a) ‘timing’ and b) ‘syn’ are presented separately.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **A) *Parus major*** | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| model | Intercept | syn | syn2 | peak | Fage (o) | Fage (u) | density | brood | syn ×  peak | syn ×  density | syn ×  brood | syn2 ×  peak | syn2 ×  Fage (o) | syn2 ×  Fage (u) | syn2 ×  density | syn2 ×  brood | peak ×  density | peak ×  brood |  |  |  |  | AIC | ΔAIC | w |
| 1 | 15.541 | -0.469 | -0.149 | 1.424 | 0.397 | 0.509 | -0.427 | -1.122 |  |  |  | -1.428 |  |  |  |  | -1.046 | -0.570 |  |  |  |  | 3805.73 | 0.00 | 0.26 |
| 2 | 15.538 | -0.520 | -0.092 | 1.425 | 0.392 | 0.543 | -0.409 | -1.116 |  | -0.261 |  | -1.474 |  |  |  |  | -1.072 | -0.569 |  |  |  |  | 3806.83 | 1.10 | 0.15 |
| 3 | 15.543 | -0.478 | -0.152 | 1.413 | 0.394 | 0.498 | -0.436 | -1.125 | -0.206 |  |  | -1.408 |  |  |  |  | -0.971 | -0.577 |  |  |  |  | 3807.13 | 1.40 | 0.13 |
| 4 | 15.550 | -0.487 | -0.186 | 1.406 | 0.394 | 0.497 | -0.438 | -1.065 |  |  |  | -1.348 |  |  |  | -0.250 | -1.026 | -0.605 |  |  |  |  | 3807.19 | 1.46 | 0.13 |
| 5 | 15.534 | -0.433 | -0.186 | 1.432 | 0.405 | 0.515 | -0.365 | -1.131 |  |  |  | -1.426 |  |  | -0.271 |  | -1.072 | -0.558 |  |  |  |  | 3807.23 | 1.50 | 0.12 |
| 6 | 15.486 | -0.492 | 0.043 | 1.431 | 0.496 | 0.702 | -0.418 | -1.118 |  |  |  | -1.438 | -0.433 | -0.667 |  |  | -1.040 | -0.567 |  |  |  |  | 3807.32 | 1.59 | 0.12 |
| 7 | 15.542 | -0.472 | -0.155 | 1.421 | 0.396 | 0.510 | -0.427 | -1.121 |  |  | -0.044 | -1.422 |  |  |  |  | -1.042 | -0.570 |  |  |  |  | 3807.69 | 1.97 | 0.10 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **B) *Cyanistes caeruleus*** | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| a) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| model | Intercept | timing | timing2 | peak | Fage (o) | Fage (u) | density | brood | timing ×  peak | timing ×  Fage (o) | timing ×  Fage (u) | timing ×  density | timing ×  brood | timing2 ×  peak | timing2 ×  Fage (o) | timing2 ×  Fage (u) | timing2 ×  density | timing2 ×  brood | peak ×  Fage (o) | peak ×  Fage (u) | peak ×  brood |  | AIC | ΔAIC | w |
| 4 | 10.257 | -0.165 | -0.146 | 0.878 | 0.429 | -1.419 |  | -0.750 |  | 0.805 | 4.439 |  | -0.374 |  | -0.112 | 4.349 |  |  | -0.260 | 1.366 | 0.782 |  | 955.75 | 0.00 | 0.12 |
| 5 | 10.255 | -0.150 | -0.146 | 0.781 | 0.437 | -1.149 |  | -0.768 |  | 0.818 | 3.729 |  | -0.368 |  | -0.132 | 3.137 |  |  |  |  | 0.760 |  | 955.97 | 0.22 | 0.10 |
| 6 | 10.255 | -0.168 | -0.184 | 0.775 | 0.446 | -1.123 |  | -0.780 | 0.287 | 0.808 | 3.822 |  | -0.389 |  | -0.097 | 3.130 |  |  |  |  | 0.763 |  | 956.48 | 0.73 | 0.08 |
| 7 | 10.256 | -0.177 | -0.179 | 0.851 | 0.438 | -1.395 |  | -0.762 | 0.252 | 0.797 | 4.511 |  | -0.391 |  | -0.085 | 4.336 |  |  | -0.216 | 1.382 | 0.781 |  | 956.63 | 0.87 | 0.08 |
| 8 | 10.258 | -0.022 | -0.154 | 0.852 | 0.423 | -1.413 |  | -0.797 |  | 0.672 | 4.138 |  |  |  | -0.097 | 4.228 |  |  | -0.244 | 1.383 | 0.765 |  | 956.97 | 1.22 | 0.06 |
| 9 | 10.264 | -0.139 | -0.185 | 0.755 | 0.403 | -0.949 |  | -0.770 |  | 0.780 | 0.794 |  | -0.340 |  |  |  |  |  |  |  | 0.746 |  | 957.01 | 1.26 | 0.06 |
| 10 | 10.256 | -0.011 | -0.154 | 0.764 | 0.430 | -1.142 |  | -0.813 |  | 0.687 | 3.431 |  |  |  | -0.115 | 3.012 |  |  |  |  | 0.745 |  | 957.05 | 1.30 | 0.06 |
| 11 | 10.220 | -0.116 |  | 0.739 | 0.395 | -0.925 |  | -0.732 |  | 0.704 | 0.938 |  | -0.341 |  |  |  |  |  |  |  | 0.732 |  | 957.14 | 1.44 | 0.06 |
| 12 | 10.260 | -0.157 | -0.208 | 0.749 | 0.422 | -0.920 |  | -0.781 | 0.305 | 0.774 | 0.913 |  | -0.363 |  |  |  |  |  |  |  | 0.747 |  | 957.34 | 1.59 | 0.05 |
| 13 | 10.260 | -0.167 | -0.148 | 0.904 | 0.425 | -1.415 | 0.081 | -0.741 |  | 0.806 | 4.442 |  | -0.371 |  | -0.117 | 4.358 |  |  | -0.254 | 1.383 | 0.768 |  | 957.40 | 1.65 | 0.05 |
| 14 | 10.250 | -0.176 | -0.122 | 0.839 | 0.441 | -1.415 |  | -0.749 |  | 0.823 | 4.469 |  | -0.369 | 0.127 | -0.169 | 4.390 |  |  | -0.252 | 1.405 | 0.793 |  | 957.47 | 1.72 | 0.05 |
| 15 | 10.241 | -0.176 | -0.046 | 0.875 | 0.445 | -1.386 | 0.159 | -0.735 |  | 0.839 | 4.467 |  | -0.361 |  | -0.201 | 4.267 | -0.363 |  | -0.251 | 1.435 | 0.776 |  | 957.60 | 1.85 | 0.05 |
| 16 | 10.263 | -0.010 | -0.186 | 0.740 | 0.401 | -0.949 |  | -0.811 |  | 0.661 | 0.630 |  |  |  |  |  |  |  |  |  | 0.731 |  | 957.61 | 1.86 | 0.05 |
| 17 | 10.258 | -0.153 | -0.148 | 0.809 | 0.433 | -1.142 | 0.080 | -0.759 |  | 0.819 | 3.728 |  | -0.366 |  | -0.137 | 3.136 |  |  |  |  | 0.747 |  | 957.64 | 1.89 | 0.05 |
| 18 | 10.253 | -0.172 | -0.184 | 0.816 | 0.450 | -1.104 | 0.099 | -0.760 | 0.559 | 0.752 | 3.904 | 0.489 | -0.339 |  | -0.128 | 3.111 |  |  |  |  | 0.727 |  | 957.64 | 1.89 | 0.05 |
| 19 | 10.257 | -0.165 | -0.147 | 0.878 | 0.429 | -1.419 |  | -0.750 |  | 0.804 | 4.438 |  | -0.374 |  | -0.111 | 4.349 |  | -0.001 | -0.260 | 1.366 | 0.782 |  | 975.75 | 2.00 | 0.04 |
| Continues… | | | | | | | | | | | | | | | | | | | | | | | | | |

Table S5 continues.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| b) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| model | Intercept | syn | syn2 | peak | Fage (o) | Fage (u) | brood | syn ×  Fage (o) | syn ×  Fage (u) | syn ×  brood | syn2 ×  Fage (o) | syn2 ×  Fage (u) | syn2 ×  brood | peak ×  Fage (o) | peak ×  Fage (u) | peak ×  brood |  |  |  |  |  |  | AIC | ΔAIC | w |
| 1 | 10.400 | -0.138 | -0.705 | 0.806 | 0.332 | -1.903 | -0.573 | 0.610 | 2.608 | -0.426 | 0.163 | 2.831 | -0.502 | -0.285 | 1.529 | 0.765 |  |  |  |  |  |  | 956.37 | 0.00 | 0.49 |
| 2 | 10.373 | -0.053 | -0.612 | 0.804 | 0.340 | -1.876 | -0.620 | 0.499 | 2.416 |  | 0.134 | 2.670 | -0.512 | -0.278 | 1.536 | 0.749 |  |  |  |  |  |  | 957.66 | 1.29 | 0.26 |
| 3 | 10.400 | -0.132 | -0.710 | 0.702 | 0.329 | -1.657 | -0.599 | 0.627 | 1.655 | -0.423 | 0.176 | 1.978 | -0.478 |  |  | 0.741 |  |  |  |  |  |  | 975.75 | 1.39 | 0.25 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **C) *Poecile montanus*** | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| model | Intercept | syn | syn2 | peak | Fage (o) | Fage (u) | density | brood | syn ×  peak | syn ×  density | syn ×  brood | peak ×  density | peak ×  brood |  |  |  |  |  |  |  |  |  | AIC | ΔAIC | w |
| 1 | 10.697 | 0.170 |  | 0.119 | 0.322 | -0.220 | -0.271 | -0.111 |  | 0.507 | 0.270 |  |  |  |  |  |  |  |  |  |  |  | 3146.08 | 0.00 | 0.28 |
| 2 | 10.700 | 0.146 |  | 0.129 | 0.317 | -0.214 | -0.288 | -0.111 | -0.152 | 0.586 | 0.268 |  |  |  |  |  |  |  |  |  |  |  | 3146.57 | 0.49 | 0.22 |
| 3 | 10.697 | 0.170 |  | 0.123 | 0.322 | -0.217 | -0.269 | -0.112 |  | 0.511 | 0.268 |  | 0.080 |  |  |  |  |  |  |  |  |  | 3147.16 | 1.08 | 0.16 |
| 4 | 10.700 | 0.148 |  | 0.131 | 0.318 | -0.212 | -0.284 | -0.112 | -0.141 | 0.584 | 0.266 |  | 0.070 |  |  |  |  |  |  |  |  |  | 3147.87 | 1.79 | 0.12 |
| 5 | 10.693 | 0.171 |  | 0.114 | 0.322 | -0.220 | -0.275 | -0.110 |  | 0.508 | 0.270 | 0.024 |  |  |  |  |  |  |  |  |  |  | 3147.98 | 1.90 | 0.11 |
| 6 | 10.691 | 0.172 | 0.023 | 0.123 | 0.322 | -0.222 | -0.270 | -0.110 |  | 0.492 | 0.275 |  |  |  |  |  |  |  |  |  |  |  | 3147.98 | 1.90 | 0.11 |

Table S6 Top models (ΔAIC < 2) describing the number of fledged young in A) the great tit, B) the blue tit and C) the willow tit. w is the weighting parameter. ’syn’ = synchrony with the caterpillar peak (see text for details), ‘peak’ = the caterpillar peak height, ‘Fage’ = female age (yearling/older/unknown), ‘density’ = breeding density, ‘brood’ = brood size.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **A) *Parus major*** | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| model | Intercept | syn | syn2 | peak | Fage (o) | Fage (u) | density | brood | syn ×  peak | syn ×  Fage (o) | syn ×  Fage (u) | syn ×  density | syn ×  brood | syn2 ×  peak | syn2 ×  Fage (o) | syn2 ×  Fage (u) | syn2 ×  density | syn2 ×  brood | peak ×  density | peak ×  brood |  | AIC | ΔAIC | w |
| 1 | -0.020 | -0.123 | -0.359 | 0.442 | 0.169 | 0.077 | -0.131 | 0.943 |  |  |  |  | -0.179 | -0.543 | 0.110 | -0.523 | -0.598 | -0.324 | 0.212 |  |  | 2352.08 | 0.00 | 0.08 |
| 2 | -0.023 | -0.128 | -0.362 | 0.486 | 0.169 | 0.099 | -0.129 | 0.942 |  |  |  |  | -0.170 | -0.632 | 0.101 | -0.521 | -0.618 | -0.310 |  |  |  | 2352.36 | 0.28 | 0.07 |
| 3 | -0.025 | -0.116 | -0.326 | 0.453 | 0.173 | 0.078 | -0.142 | 0.939 |  |  |  |  |  | -0.576 | 0.087 | -0.544 | -0.552 | -0.327 | 0.202 |  |  | 2352.46 | 0.38 | 0.07 |
| 4 | -0.028 | -0.121 | -0.330 | 0.495 | 0.173 | 0.099 | -0.139 | 0.939 |  |  |  |  |  | -0.659 | 0.079 | -0.541 | -0.573 | -0.313 |  |  |  | 2352.51 | 0.43 | 0.07 |
| 5 | -0.027 | -0.079 | -0.353 | 0.489 | 0.173 | 0.110 | -0.124 | 0.939 |  | -0.060 | -0.396 |  | -0.168 | -0.645 | 0.095 | -0.767 | -0.608 | -0.281 |  |  |  | 2353.14 | 1.06 | 0.05 |
| 6 | -0.024 | -0.075 | -0.351 | 0.444 | 0.172 | 0.089 | -0.126 | 0.940 |  | -0.063 | -0.376 |  | -0.175 | -0.563 | 0.104 | -0.755 | -0.590 | -0.295 | 0.198 |  |  | 2353.16 | 1.09 | 0.05 |
| 7 | -0.007 | -0.116 | -0.365 | 0.450 | 0.183 | -0.072 | -0.175 | 0.934 |  |  |  |  | -0.185 | -0.585 |  |  | -0.412 | -0.260 | 0.207 |  |  | 2353.19 | 1.12 | 0.05 |
| 8 | -0.032 | -0.067 | -0.322 | 0.498 | 0.177 | 0.110 | -0.134 | 0.936 |  | -0.078 | -0.398 |  |  | -0.675 | 0.075 | -0.784 | -0.563 | -0.282 |  |  |  | 2353.21 | 1.13 | 0.05 |
| 9 | -0.010 | -0.121 | -0.371 | 0.493 | 0.182 | -0.051 | -0.172 | 0.934 |  |  |  |  | -0.177 | -0.670 |  |  | -0.435 | -0.249 |  |  |  | 2353.35 | 1.27 | 0.04 |
| 10 | -0.029 | -0.063 | -0.318 | 0.459 | 0.176 | 0.091 | -0.137 | 0.936 |  | -0.081 | -0.379 |  |  | -0.598 | 0.082 | -0.773 | -0.544 | -0.296 | 0.188 |  |  | 2353.43 | 1.35 | 0.04 |
| 11 | -0.012 | -0.114 | -0.347 | 0.500 | 0.181 | -0.057 | -0.182 | 0.931 |  |  |  |  |  | -0.696 |  |  | -0.390 | -0.257 |  |  |  | 2353.68 | 1.60 | 0.04 |
| 12 | -0.010 | -0.109 | -0.340 | 0.460 | 0.182 | -0.078 | -0.186 | 0.932 |  |  |  |  |  | -0.617 |  |  | -0.367 | -0.268 | 0.196 |  |  | 2353.74 | 1.67 | 0.04 |
| 13 | -0.014 | -0.115 | -0.325 | 0.508 | 0.181 | -0.045 | -0.180 | 0.879 |  |  |  |  | -0.183 | -0.776 |  |  | -0.349 |  |  |  |  | 2353.75 | 1.68 | 0.04 |
| 14 | -0.033 | -0.121 | -0.281 | 0.508 | 0.188 | 0.098 | -0.147 | 0.875 |  |  |  |  | -0.173 | -0.746 | 0.007 | -0.489 | -0.477 |  |  |  |  | 2353.78 | 1.70 | 0.04 |
| 15 | -0.031 | -0.116 | -0.275 | 0.468 | 0.188 | 0.077 | -0.150 | 0.873 |  |  |  |  | -0.182 | -0.668 | 0.011 | -0.490 | -0.453 |  | 0.197 |  |  | 2353.81 | 1.74 | 0.03 |
| 16 | -0.012 | -0.111 | -0.318 | 0.468 | 0.182 | -0.065 | -0.184 | 0.877 |  |  |  |  | -0.191 | -0.679 |  |  | -0.324 |  | 0.196 |  |  | 2353.82 | 1.75 | 0.03 |
| 17 | -0.021 | -0.128 | -0.365 | 0.484 | 0.167 | 0.098 | -0.130 | 0.945 | 0.079 |  |  |  | -0.184 | -0.630 | 0.113 | -0.517 | -0.599 | -0.318 |  |  |  | 2353.91 | 1.83 | 0.03 |
| 18 | -0.037 | -0.064 | -0.280 | 0.509 | 0.190 | 0.110 | -0.140 | 0.879 |  | -0.081 | -0.429 |  | -0.169 | -0.751 | 0.011 | -0.756 | -0.480 |  |  |  |  | 2353.93 | 1.85 | 0.03 |
| 19 | -0.019 | -0.123 | -0.361 | 0.443 | 0.168 | 0.078 | -0.132 | 0.944 | 0.035 |  |  |  | -0.185 | -0.547 | 0.115 | -0.521 | -0.591 | -0.327 | 0.201 |  |  | 2354.00 | 1.92 | 0.03 |
| 20 | -0.038 | -0.114 | -0.247 | 0.517 | 0.192 | 0.098 | -0.157 | 0.871 |  |  |  |  |  | -0.775 | -0.017 | -0.509 | -0.429 |  |  |  |  | 2354.00 | 1.93 | 0.03 |
| 21 | -0.042 | -0.052 | -0.248 | 0.518 | 0.193 | 0.110 | -0.149 | 0.875 |  | -0.099 | -0.431 |  |  | -0.782 | -0.010 | -0.772 | -0.434 |  |  |  |  | 2354.02 | 1.94 | 0.03 |
| 22 | -0.020 | -0.119 | -0.362 | 0.442 | 0.169 | 0.077 | -0.132 | 0.942 |  |  |  | 0.018 | -0.178 | -0.539 | 0.109 | -0.530 | -0.602 | -0.324 | 0.214 |  |  | 2354.06 | 1.98 | 0.03 |
| 23 | -0.019 | -0.123 | -0.359 | 0.442 | 0.168 | 0.077 | -0.131 | 0.943 |  |  |  |  | -0.179 | -0.543 | 0.110 | -0.523 | -0.598 | -0.324 | 0.213 | -0.002 |  | 2354.08 | 2.00 | 0.03 |
| Continues… | | | | | | | | | | | | | | | | | | | | | | | | |

Table S6 continues.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **B) *Cyanistes caeruleus*** | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| model | Intercept | syn | syn2 | peak | Fage (o) | Fage (u) | density | brood | syn ×  peak | syn ×  density | syn ×  brood | syn2 ×  peak | syn2 ×  density | syn2 ×  brood | peak ×  density | peak ×  brood |  |  |  |  |  | AIC | ΔAIC | w |
| 1 | -0.220 | -0.126 | -0.347 | 0.400 | 0.297 | -0.245 | -0.165 | 0.983 |  |  | -0.271 |  |  | -0.393 | 0.371 |  |  |  |  |  |  | 763.06 | 0.00 | 0.07 |
| 2 | -0.021 | -0.071 | -0.322 | 0.425 | 0.289 | -0.243 | -0.170 | 0.946 |  | 0.320 |  |  |  | -0.399 | 0.443 |  |  |  |  |  |  | 763.11 | 0.06 | 0.06 |
| 3 | -0.056 | -0.147 | -0.351 | 0.338 | 0.292 | -0.294 | -0.211 | 1.017 |  |  | -0.272 |  |  | -0.414 |  |  |  |  |  |  |  | 763.27 | 0.21 | 0.06 |
| 4 | -0.032 | -0.107 | -0.309 | 0.407 | 0.297 | -0.252 | -0.159 | 0.952 |  |  |  |  |  | -0.412 | 0.373 |  |  |  |  |  |  | 763.37 | 0.31 | 0.06 |
| 5 | -0.014 | -0.093 | -0.352 | 0.416 | 0.290 | -0.239 | -0.174 | 0.973 |  | 0.269 | -0.229 |  |  | -0.385 | 0.431 |  |  |  |  |  |  | 763.51 | 0.45 | 0.05 |
| 6 | -0.066 | -0.127 | -0.312 | 0.345 | 0.292 | -0.301 | -0.205 | 0.986 |  |  |  |  |  | -0.433 |  |  |  |  |  |  |  | 763.58 | 0.52 | 0.05 |
| 7 | -0.057 | -0.144 | -0.350 | 0.348 | 0.289 | -0.271 | -0.224 | 1.010 |  |  | -0.279 |  |  | -0.394 |  | 0.220 |  |  |  |  |  | 763.73 | 0.67 | 0.05 |
| 8 | -0.027 | -0.126 | -0.347 | 0.401 | 0.294 | -0.232 | -0.181 | 0.981 |  |  | -0.276 |  |  | -0.380 | 0.327 | 0.179 |  |  |  |  |  | 764.06 | 1.00 | 0.04 |
| 9 | -0.063 | -0.102 | -0.323 | 0.350 | 0.285 | -0.302 | -0.220 | 0.986 |  | 0.251 |  |  |  | -0.426 |  |  |  |  |  |  |  | 764.15 | 1.10 | 0.04 |
| 10 | -0.068 | -0.124 | -0.310 | 0.355 | 0.289 | -0.279 | -0.217 | 0.978 |  |  |  |  |  | -0.415 |  | 0.212 |  |  |  |  |  | 764.17 | 1.11 | 0.04 |
| 11 | -0.027 | -0.072 | -0.321 | 0.425 | 0.287 | -0.233 | -0.183 | 0.944 |  | 0.310 |  |  |  | -0.388 | 0.403 | 0.156 |  |  |  |  |  | 764.36 | 1.30 | 0.03 |
| 12 | -0.054 | -0.125 | -0.355 | 0.343 | 0.286 | -0.295 | -0.222 | 1.014 |  | 0.200 | -0.241 |  |  | -0.411 |  |  |  |  |  |  |  | 764.39 | 1.33 | 0.03 |
| 13 | -0.038 | -0.107 | -0.308 | 0.408 | 0.294 | -0.240 | -0.174 | 0.949 |  |  |  |  |  | -0.400 | 0.331 | 0.170 |  |  |  |  |  | 764.47 | 1.42 | 0.03 |
| 14 | -0.025 | -0.065 | -0.338 | 0.425 | 0.289 | -0.229 | -0.126 | 0.954 |  | 0.348 |  |  | -0.217 | -0.433 | 0.430 |  |  |  |  |  |  | 764.57 | 1.51 | 0.03 |
| 15 | -0.020 | -0.095 | -0.352 | 0.416 | 0.287 | -0.227 | -0.188 | 0.972 |  | 0.257 | -0.236 |  |  | -0.373 | 0.387 | 0.166 |  |  |  |  |  | 764.65 | 1.59 | 0.03 |
| 16 | -0.018 | -0.135 | -0.344 | 0.367 | 0.294 | -0.220 | -0.165 | 0.983 |  |  | -0.278 | 0.146 |  | -0.393 | 0.390 |  |  |  |  |  |  | 764.68 | 1.63 | 0.03 |
| 17 | -0.017 | -0.079 | -0.318 | 0.393 | 0.286 | -0.219 | -0.169 | 0.945 |  | 0.329 |  | 0.147 |  | -0.399 | 0.464 |  |  |  |  |  |  | 764.73 | 1.68 | 0.03 |
| 18 | -0.064 | -0.100 | -0.321 | 0.359 | 0.282 | -0.280 | -0.232 | 0.978 |  | 0.246 |  |  |  | -0.408 |  | 0.208 |  |  |  |  |  | 764.79 | 1.73 | 0.03 |
| 19 | -0.026 | -0.079 | -0.275 | 0.416 | 0.288 | -0.251 | -0.150 | 0.860 |  |  | -0.292 |  |  |  | 0.405 |  |  |  |  |  |  | 764.84 | 1.78 | 0.03 |
| 20 | -0.025 | -0.125 | -0.357 | 0.399 | 0.297 | -0.236 | -0.138 | 0.988 |  |  | -0.270 |  | -0.134 | -0.415 | 0.359 |  |  |  |  |  |  | 764.84 | 1.79 | 0.03 |
| 21 | -0.058 | -0.144 | -0.362 | 0.339 | 0.292 | -0.281 | -0.172 | 1.022 |  |  | -0.272 |  | -0.177 | -0.442 |  |  |  |  |  |  |  | 764.89 | 1.84 | 0.03 |
| 22 | -0.056 | -0.123 | -0.354 | 0.353 | 0.283 | -0.273 | -0.235 | 1.007 |  | 0.193 | -0.249 |  |  | -0.391 |  | 0.216 |  |  |  |  |  | 764.90 | 1.85 | 0.03 |
| 23 | -0.024 | -0.128 | -0.340 | 0.402 | 0.294 | -0.247 | -0.167 | 0.982 | -0.059 |  | -0.267 |  |  | -0.388 | 0.362 |  |  |  |  |  |  | 764.97 | 1.92 | 0.02 |
| 24 | -0.026 | -0.019 | -0.246 | 0.443 | 0.280 | -0.249 | -0.155 | 0.818 |  | 0.338 |  |  |  |  | 0.482 |  |  |  |  |  |  | 765.02 | 1.96 | 0.02 |
| 25 | -0.018 | -0.087 | -0.367 | 0.416 | 0.290 | -0.225 | -0.132 | 0.980 |  | 0.296 | -0.225 |  | -0.204 | -0.418 | 0.419 |  |  |  |  |  |  | 765.02 | 1.97 | 0.02 |
| 26 | -0.057 | -0.149 | -0.338 | 0.344 | 0.288 | -0.296 | -0.211 | 1.014 | -0.097 |  | -0.266 |  |  | -0.405 |  |  |  |  |  |  |  | 765.04 | 1.98 | 0.02 |
| 27 | -0.010 | -0.102 | -3.486 | 0.380 | 0.287 | -0.211 | -0.173 | 0.973 |  | 0.278 | -0.235 | 0.163 |  | -0.385 | 0.453 |  |  |  |  |  |  | 765.04 | 1.98 | 0.02 |
| 28 | -0.019 | -0.066 | -0.330 | 0.425 | 0.291 | -0.240 | -0.169 | 0.946 | 0.056 | 0.344 |  |  |  | -0.403 | 0.458 |  |  |  |  |  |  | 765.05 | 1.99 | 0.02 |
| Continues… | | | | | | | | | | | | | | | | | | | | | | | | |

Table S6 continues.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **C) *Poecile montanus*** | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |
| model | Intercept | syn | syn2 | peak | Fage (o) | Fage (u) | density | brood | syn ×  peak | syn ×  Fage (o) | syn ×  Fage (u) | syn ×  density | syn ×  brood | syn2 ×  peak | syn2 ×  density | syn2 ×  brood | peak ×  density | peak × brood | |  |  |  | AIC | ΔAIC | w |
| 1 | -0.034 | 0.245 | -0.192 | 0.170 | 0.069 | -0.360 | -0.164 | 1.477 |  | -0.235 | -0.521 | 0.339 |  | -0.464 |  |  |  |  |  | |  |  | 2736.66 | 0.00 | 0.21 |
| 2 | -0.035 | 0.267 | -0.178 | 0.171 | 0.069 | -0.361 | -0.164 | 1.474 |  | -0.262 | -0.535 | 0.345 | 0.098 | -0.453 |  |  |  |  |  | |  |  | 2736.70 | 0.04 | 0.20 |
| 3 | -0.032 | 0.239 | -0.208 | 0.170 | 0.069 | -0.359 | -0.161 | 1.500 |  | -0.236 | -0.516 | 0.339 |  | -0.481 |  | -0.079 |  |  |  | |  |  | 2737.97 | 1.32 | 0.11 |
| 4 | -0.033 | 0.261 | -0.194 | 0.171 | 0.069 | -0.360 | -0.161 | 1.495 |  | -0.262 | -0.531 | 0.345 | 0.096 | -0.469 |  | -0.073 |  |  |  | |  |  | 2738.11 | 1.45 | 0.10 |
| 5 | -0.034 | 0.245 | -0.193 | 0.172 | 0.069 | -0.359 | -0.163 | 1.477 |  | -0.236 | -0.519 | 0.341 |  | -0.465 |  |  |  | 0.029 |  | |  |  | 2738.50 | 1.84 | 0.08 |
| 6 | -0.035 | 0.267 | -0.179 | 0.172 | 0.069 | -0.360 | -0.163 | 1.474 |  | -0.262 | -0.534 | 0.347 | 0.098 | -0.454 |  |  |  | 0.025 |  | |  |  | 2738.58 | 1.93 | 0.08 |
| 7 | -0.035 | 0.250 | -0.190 | 0.168 | 0.070 | -0.360 | -0.160 | 1.478 |  | -0.235 | -0.522 | 0.356 |  | -0.442 | -0.048 |  |  |  |  | |  |  | 2738.60 | 1.94 | 0.08 |
| 8 | -0.034 | 0.245 | -0.192 | 0.170 | 0.069 | -0.360 | -0.164 | 1.477 | 0.001 | -0.235 | -0.521 | 0.339 |  | -0.464 |  |  |  |  |  | |  |  | 2738.66 | 2.00 | 0.08 |
| 9 | -0.034 | 0.245 | -0.192 | 0.170 | 0.069 | -0.360 | -0.164 | 1.477 |  | -0.235 | -0.521 | 0.339 |  | -0.464 |  |  | 0.001 |  |  | |  |  | 2738.66 | 2.00 | 0.08 |

Table S7. Model averaged parameter estimates and standard errors (in parentheses) for variables explaining the mean nestling mass and the number of fledged young in the great tit, the blue tit and the willow tit in the Oulu area. For the mean nestling mass in the blue tit, two averaged models with a) ‘synchrony’ and b) ‘timing’ were created. Model averaging was done with the zero method, using models with ΔAIC <2. Input variables were scaled to = 0 and SD = 0.5. Parameter estimates whose 95% confidence intervals do not contain zero are bolded.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | **Mean nestling mass** | | | | | |  | **Number of fledged young** | | | | |
|  | | | | Great tit |  | Blue tit | |  | Willow tit |  | Great tit |  | Blue tit |  | Willow tit |
| **Variable** | | | |  |  | a) | b) |  |  |  |  |  |  |  |  |
| (Intercept) | | | | **15.500** (0.10) |  | **10.400** (0.11) | **10.300** (0.10) |  | **10.700** (0.04) |  | -0.023 (0.05) |  | -0.037 (0.08) |  | -0.034 (0.03) |
| synchrony | | | | **-0.479** (0.13) |  | -0.114 (0.19) |  |  | **0.162** (0.05) |  | -0.107 (0.07) |  | -0.108 (0.11) |  | **0.253** (0.06) |
| synchrony2 | | | | -0.128 (0.21) |  | **-0.682** (0.25) |  |  | 0.003 (0.03) |  | **-0.333** (0.11) |  | **-0.332** (0.13) |  | **-0.190** (0.08) |
| timing | | | |  |  |  | -0.135 (0.21) |  |  |  |  |  |  |  |  |
| timing2 | | | |  |  |  | -0.148 (0.17) |  |  |  |  |  |  |  |  |
| peak | | | | **1.420** (0.17) |  | **0.780** (0.17) | **0.813** (0.16) |  | **0.123** (0.05) |  | **0.476** (0.08) |  | **0.387** (0.12) |  | **0.170** (0.05) |
| female age (older) | | | | **0.408**  (0.14) |  | **0.333** (0.15) | **0.429** (0.14) |  | **0.320** (0.04) |  | **0.177** (0.07) |  | **0.290** (0.10) |  | 0.069 (0.04) |
|  | (unknown) | | | **0.534** (0.24) |  | **-1.840** (0.50) | **-1.210** (0.56) |  | -0.218 (0.20) |  | 0.056 (0.14) |  | -0.256 (0.35) |  | **-0.360** (0.17) |
| density | | | | **-0.418** (0.14) |  |  | 0.020 (0.07) |  | **-0.276** (0.06) |  | -0.146 (0.08) |  | -0.183 (0.12) |  | **-0.163** (0.05) |
| brood size | | | | **-1.120** (0.13) |  | **-0.592** (0.15) | **-0.766** (0.13) |  | **-0.111** (0.04) |  | **0.924** (0.07) |  | **0.972** (0.12) |  | **1.480** (0.04) |
| synchrony ×peak | | | | -0.027 (0.12) |  |  |  |  | -0.050 (0.10) |  | 0.004 (0.03) |  | -0.002 (0.06) |  | 0.000 (0.03) |
| synchrony2×peak | | | | **-1.420** (0.43) |  |  |  |  |  |  | **-0.638** (0.20) |  | 0.012 (0.08) |  | **-0.462** (0.19) |
| synchrony×fage (older) | | | |  |  | **0.585** (0.27) |  |  |  |  | -0.019 (0.07) |  |  |  | **-0.245** (0.08) |
|  | | | (unknown) |  |  | 2.320 (1.40) |  |  |  |  | -0.099 (0.21) |  |  |  | -0.525 (0.30) |
| synchrony2×fage (older) | | | | -0.051 (0.19) |  | 0.159 (0.35) |  |  |  |  | 0.058 (0.17) |  |  |  |  |
|  | | | (unknown) | -0.078 (0.28) |  | **2.580** (1.03) |  |  |  |  | -0.461 (0.36) |  |  |  |  |
| synchrony×density | | | | -0.039 (0.14) |  |  |  |  | **0.533** (0.14) |  | 0.001 (0.02) |  | 0.130 (0.21) |  | **0.343** (0.12) |
| synchrony2×density | | | | -0.033 (0.16) |  |  |  |  |  |  | **-0.517** (0.22) |  | -0.020 (0.11) |  | -0.004 (0.06) |
| synchrony×brood | | | | -0.004 (0.08) |  | -0.315 (0.28) |  |  | **0.269** (0.08) |  | -0.114 (0.13) |  | -0.145 (0.19) |  | 0.037 (0.06) |
| synchrony2×brood | | | | -0.031 (0.15) |  | -0.498 (0.27) |  |  |  |  | -0.229 (0.19) |  | -0.383 (0.22) |  | -0.016 (0.05) |
| timing×peak | | | |  |  |  | 0.084 (0.20) |  |  |  |  |  |  |  |  |
| timing2×peak | | | |  |  |  | 0.006 (0.06) |  |  |  |  |  |  |  |  |
| timing×fage (older) | | | |  |  |  | **0.775** (0.27) |  |  |  |  |  |  |  |  |
|  | | (unknown) | |  |  |  | 3.400 (2.03) |  |  |  |  |  |  |  |  |
| timing2×fage (older) | | | |  |  |  | -0.095 (0.23) |  |  |  |  |  |  |  |  |
|  | | (unknown) | |  |  |  | 2.970 (2.15) |  |  |  |  |  |  |  |  |
| timing×density | | | |  |  |  | 0.022 (0.12) |  |  |  |  |  |  |  |  |
| timing2×density | | | |  |  |  | -0.017 (0.10) |  |  |  |  |  |  |  |  |
| timing×brood | | | |  |  |  | -0.305 (0.24) |  |  |  |  |  |  |  |  |
| timing2×brood | | | |  |  |  | -0.000 (0.05) |  |  |  |  |  |  |  |  |
| peak×fage (older) | | | |  |  | -0.213 (0.25) | -0.110 (0.21) |  |  |  |  |  |  |  |  |
|  | (unknown) | | |  |  | 1.150 (0.98) | 0.616 (0.89) |  |  |  |  |  |  |  |  |
| peak×density | | | | **-1.040** (0.31) |  |  |  |  | 0.003 (0.03) |  | 0.099 (0.14) |  | 0.254 (0.28) |  | 0.000 (0.02) |
| peak×brood | | | | **-0.573** (0.26) |  | **0.755** (0.23) | **0.761** (0.23) |  | 0.021 (0.06) |  | -0.000 (0.02) |  | 0.052 (0.13) |  | 0.004 (0.03) |