### Supplementary information for Spurgin *et al.* "Telomeres reveal silver spoon effects in a wild population"

**Table S1** Model selection table for analysis of factors affecting early life telomere length in juvenile Seychelles warblers. Only models that remained in the top model set for model averaging (AICc 6 compared to the top model) are included here. TQ = territory quality.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Model | df | AICc | Delta AICc | Weight |
| Age + Non helpers + Tarsus + Age x tarsus | 9 | 2031.27 | 0.00 | 0.02 |
| Sex + Age + Non helpers + Tarsus + Age x tarsus | 10 | 2031.32 | 0.04 | 0.02 |
| Age + Tarsus + Age x tarsus | 8 | 2031.70 | 0.43 | 0.02 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x tarsus | 11 | 2031.79 | 0.51 | 0.02 |
| Sex + Age + Tarsus + Age x tarsus | 9 | 2031.79 | 0.52 | 0.02 |
| Sex + Age + Body mass + Tarsus + Age x tarsus | 10 | 2032.07 | 0.80 | 0.02 |
| Age + Non helpers + Tarsus + TQ + Age x tarsus | 10 | 2032.14 | 0.87 | 0.01 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x tarsus | 11 | 2032.30 | 1.02 | 0.01 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x sex | 11 | 2032.35 | 1.08 | 0.01 |
| Age + Body mass + Non helpers + Tarsus + Age x tarsus | 10 | 2032.42 | 1.14 | 0.01 |
| Age + Tarsus + TQ + Age x tarsus | 9 | 2032.58 | 1.30 | 0.01 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x sex + Age x tarsus | 12 | 2032.69 | 1.41 | 0.01 |
| Sex + Age + Non helpers + Tarsus + Age x sex + Age x tarsus | 11 | 2032.69 | 1.42 | 0.01 |
| Age + Body mass + Tarsus + Age x tarsus | 9 | 2032.70 | 1.42 | 0.01 |
| Sex + Age + Body mass + Tarsus + Age x sex | 10 | 2032.70 | 1.43 | 0.01 |
| Sex + Age + Tarsus + TQ + Age x tarsus | 10 | 2032.78 | 1.50 | 0.01 |
| Sex + Age + Body mass + Tarsus + Age x sex + Age x tarsus | 11 | 2032.85 | 1.58 | 0.01 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x tarsus | 12 | 2033.03 | 1.76 | 0.01 |
| Age + Non helpers + Tarsus + Age x non helpers + Age x tarsus | 10 | 2033.05 | 1.77 | 0.01 |
| Sex + Age + Non helpers + Tarsus + Age x non helpers + Age x tarsus | 11 | 2033.06 | 1.78 | 0.01 |
| Sex + Age + Tarsus + Age x sex + Age x tarsus | 10 | 2033.09 | 1.82 | 0.01 |
| Sex + Age + Non helpers + Tarsus + Age x sex | 10 | 2033.27 | 1.99 | 0.01 |
| Sex + Age + Body mass + Non helpers + Age x mass | 10 | 2033.31 | 2.03 | 0.01 |
| Helpers + Age + Non helpers + Tarsus + Age x tarsus | 10 | 2033.32 | 2.04 | 0.01 |
| Sex + Age + Body mass + Tarsus + TQ + Age x tarsus | 11 | 2033.34 | 2.06 | 0.01 |
| Helpers + Sex + Age + Non helpers + Tarsus + Age x tarsus | 11 | 2033.37 | 2.10 | 0.01 |
| Age + Body mass + Non helpers + Tarsus + TQ + Age x tarsus | 11 | 2033.49 | 2.21 | 0.01 |
| Sex + Age + Body mass + Non helpers + Age x sex + Age x mass | 11 | 2033.49 | 2.22 | 0.01 |
| Sex + Age + Body mass + Non helpers + Age x sex | 10 | 2033.54 | 2.27 | 0.01 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x non helpers + Age x tarsus | 12 | 2033.59 | 2.31 | 0.01 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x sex + Age x tarsus | 12 | 2033.66 | 2.39 | 0.01 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x mass + Age x tarsus | 12 | 2033.67 | 2.40 | 0.01 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex | 12 | 2033.73 | 2.45 | 0.01 |
| Helpers + Age + Tarsus + Age x tarsus | 9 | 2033.74 | 2.47 | 0.01 |
| Age + Body mass + Tarsus + TQ + Age x tarsus | 10 | 2033.78 | 2.51 | 0.01 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x sex + Age x mass | 12 | 2033.82 | 2.55 | 0.01 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + Age x tarsus | 12 | 2033.82 | 2.55 | 0.01 |
| Sex + Age + Body mass + Age x sex + Age x mass | 10 | 2033.84 | 2.57 | 0.01 |
| Helpers + Sex + Age + Tarsus + Age x tarsus | 10 | 2033.85 | 2.57 | 0.01 |
| Sex + Age + Body mass + Age x mass | 9 | 2033.87 | 2.59 | 0.01 |
| Sex + Age + Body mass + Tarsus + Age x mass + Age x tarsus | 11 | 2033.92 | 2.65 | 0.01 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex + Age x tarsus | 13 | 2033.97 | 2.69 | 0.01 |
| Sex + Age + Tarsus + Age x sex | 9 | 2033.97 | 2.70 | 0.01 |
| Age + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus | 11 | 2033.97 | 2.70 | 0.01 |
| Age + Body mass + Non helpers + Tarsus + Age x mass + Age x tarsus | 11 | 2034.06 | 2.78 | 0.01 |
| Sex + Age + Tarsus + TQ + Age x sex + Age x tarsus | 11 | 2034.06 | 2.79 | 0.01 |
| Sex + Age + Body mass + Tarsus + Age x sex + Age x mass | 11 | 2034.09 | 2.82 | 0.01 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus | 12 | 2034.10 | 2.82 | 0.01 |
| Sex + Age + Body mass + Tarsus + TQ + Age x sex | 11 | 2034.10 | 2.83 | 0.01 |
| Sex + Age + Body mass + Age x sex | 9 | 2034.10 | 2.83 | 0.01 |
| Helpers + Sex + Age + Body mass + Tarsus + Age x tarsus | 11 | 2034.11 | 2.84 | 0.01 |
| Sex + Age + Body mass + Tarsus + TQ + Age x sex + Age x tarsus | 12 | 2034.15 | 2.87 | 0.01 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x sex + Age x non helpers | 12 | 2034.16 | 2.89 | 0.01 |
| Age + Body mass + Non helpers + Age x mass | 9 | 2034.17 | 2.90 | 0.01 |
| Helpers + Age + Non helpers + Tarsus + TQ + Age x tarsus | 11 | 2034.20 | 2.92 | 0.01 |
| Age + Non helpers + Tarsus + TQ + Age x tarsus + Age x TQ | 11 | 2034.21 | 2.93 | 0.01 |
| Age + Body mass + Non helpers + Tarsus + Age x non helpers + Age x tarsus | 11 | 2034.24 | 2.96 | 0.01 |
| Age + Body mass + Tarsus + Age x mass + Age x tarsus | 10 | 2034.29 | 3.02 | 0.01 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x sex | 11 | 2034.31 | 3.04 | 0.01 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x mass | 11 | 2034.32 | 3.04 | 0.01 |
| Helpers + Sex + Age + Non helpers + Tarsus + TQ + Age x tarsus | 12 | 2034.36 | 3.09 | 0.00 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x tarsus + Age x TQ | 12 | 2034.36 | 3.09 | 0.00 |
| Sex + Age + Body mass + Non helpers + TQ + Age x mass | 11 | 2034.39 | 3.11 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + Age x sex | 12 | 2034.41 | 3.14 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + Age x tarsus | 11 | 2034.44 | 3.17 | 0.00 |
| Sex + Age + Non helpers + Tarsus + Age x sex + Age x non helpers + Age x tarsus | 12 | 2034.45 | 3.18 | 0.00 |
| Helpers + Age + Non helpers + Tarsus + Age x helpers + Age x tarsus | 11 | 2034.51 | 3.24 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x sex + Age x non helpers + Age x tarsus | 13 | 2034.52 | 3.25 | 0.00 |
| Sex + Age + Body mass + Non helpers + TQ + Age x sex + Age x mass | 12 | 2034.62 | 3.34 | 0.00 |
| Helpers + Age + Tarsus + TQ + Age x tarsus | 10 | 2034.63 | 3.35 | 0.00 |
| Age + Tarsus + TQ + Age x tarsus + Age x TQ | 10 | 2034.63 | 3.35 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + Age x helpers + Age x tarsus | 12 | 2034.69 | 3.42 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x sex + Age x mass + Age x tarsus | 13 | 2034.71 | 3.44 | 0.00 |
| Helpers + Age + Body mass + Tarsus + Age x tarsus | 10 | 2034.72 | 3.45 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + Age x sex + Age x tarsus | 13 | 2034.74 | 3.47 | 0.00 |
| Age + Body mass + Age x mass | 8 | 2034.75 | 3.47 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + Age x sex + Age x tarsus | 12 | 2034.75 | 3.48 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + Age x sex | 11 | 2034.76 | 3.49 | 0.00 |
| Sex + Age + Tarsus + TQ + Age x tarsus + Age x TQ | 11 | 2034.83 | 3.56 | 0.00 |
| Helpers + Sex + Age + Tarsus + TQ + Age x tarsus | 11 | 2034.84 | 3.56 | 0.00 |
| Sex + Age + Body mass + Tarsus + Age x mass | 10 | 2034.84 | 3.57 | 0.00 |
| Sex + Age + Body mass + Non helpers + TQ + Age x sex | 11 | 2034.84 | 3.57 | 0.00 |
| Sex + Age + Body mass + Tarsus + Age x sex + Age x mass + Age x tarsus | 12 | 2034.86 | 3.59 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x mass + Age x tarsus | 13 | 2034.87 | 3.60 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus | 13 | 2034.88 | 3.61 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + Age x sex + Age x tarsus | 12 | 2034.90 | 3.63 | 0.00 |
| Sex + Age + Body mass + TQ + Age x mass | 10 | 2034.95 | 3.68 | 0.00 |
| Sex + Age + Body mass + TQ + Age x sex + Age x mass | 11 | 2034.98 | 3.70 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + Age x helpers + Age x tarsus | 13 | 2034.98 | 3.70 | 0.00 |
| Helpers + Age + Tarsus + Age x helpers + Age x tarsus | 10 | 2034.98 | 3.70 | 0.00 |
| Sex + Age + Non helpers + Tarsus + Age x sex + Age x non helpers | 11 | 2034.98 | 3.71 | 0.00 |
| Sex + Age + Tarsus + TQ + Age x sex | 10 | 2035.02 | 3.74 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + TQ + Age x mass + Age x tarsus | 12 | 2035.05 | 3.78 | 0.00 |
| Age + Body mass + Non helpers + TQ + Age x mass | 10 | 2035.07 | 3.80 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x tarsus | 13 | 2035.08 | 3.81 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex + Age x mass | 13 | 2035.09 | 3.81 | 0.00 |
| Helpers + Age + Non helpers + Tarsus + Age x non helpers + Age x tarsus | 11 | 2035.10 | 3.83 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x tarsus + Age x TQ | 13 | 2035.11 | 3.83 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + Age x non helpers + Age x tarsus | 12 | 2035.12 | 3.85 | 0.00 |
| Sex + Age + Body mass + Tarsus + TQ + Age x mass + Age x tarsus | 12 | 2035.13 | 3.86 | 0.00 |
| Helpers + Sex + Age + Tarsus + Age x sex + Age x tarsus | 11 | 2035.15 | 3.88 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus | 10 | 2035.19 | 3.92 | 0.00 |
| Helpers + Sex + Age + Tarsus + Age x helpers + Age x tarsus | 11 | 2035.20 | 3.93 | 0.00 |
| Sex + Age + Body mass + Non helpers + Age x mass + Age x non helpers | 11 | 2035.21 | 3.94 | 0.00 |
| Sex + Age + Body mass + Non helpers + Age x sex + Age x non helpers | 11 | 2035.27 | 4.00 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + Age x helpers + Age x tarsus | 12 | 2035.30 | 4.02 | 0.00 |
| Age + Body mass + Tarsus + TQ + Age x mass + Age x tarsus | 11 | 2035.30 | 4.02 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + Age x sex | 11 | 2035.33 | 4.05 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus | 12 | 2035.35 | 4.08 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Age x mass | 11 | 2035.35 | 4.08 | 0.00 |
| Sex + Age + Body mass + Tarsus + TQ + Age x sex + Age x mass | 12 | 2035.37 | 4.09 | 0.00 |
| Sex + Age + Body mass + Tarsus + TQ + Age x tarsus + Age x TQ | 12 | 2035.38 | 4.11 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + TQ + Age x tarsus | 12 | 2035.38 | 4.11 | 0.00 |
| Helpers + Age + Non helpers + Tarsus + TQ + Age x helpers + Age x tarsus | 12 | 2035.39 | 4.12 | 0.00 |
| Sex + Age + Body mass + Non helpers + Age x sex + Age x mass + Age x non helpers | 12 | 2035.39 | 4.12 | 0.00 |
| Sex + Age + Body mass + TQ + Age x sex | 10 | 2035.42 | 4.15 | 0.00 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x sex + Age x non helpers + Age x tarsus | 13 | 2035.48 | 4.21 | 0.00 |
| Sex + Age + Non helpers + Tarsus | 9 | 2035.49 | 4.21 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + Age x helpers + Age x tarsus | 12 | 2035.49 | 4.22 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x mass | 12 | 2035.50 | 4.23 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x mass + Age x non helpers + Age x tarsus | 13 | 2035.52 | 4.25 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + TQ + Age x tarsus | 12 | 2035.53 | 4.25 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Age x sex + Age x mass | 12 | 2035.54 | 4.27 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + TQ + Age x tarsus + Age x TQ | 12 | 2035.55 | 4.28 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Age x sex | 11 | 2035.55 | 4.28 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex + Age x non helpers | 13 | 2035.58 | 4.30 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + Age x non helpers + Age x tarsus | 13 | 2035.63 | 4.36 | 0.00 |
| Age + Body mass + TQ + Age x mass | 9 | 2035.66 | 4.39 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + TQ + Age x helpers + Age x tarsus | 13 | 2035.68 | 4.40 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex + Age x TQ | 13 | 2035.70 | 4.43 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x sex + Age x mass + Age x non helpers | 13 | 2035.71 | 4.44 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + Age x mass + Age x tarsus | 13 | 2035.72 | 4.45 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + TQ + Age x sex + Age x tarsus | 13 | 2035.73 | 4.46 | 0.00 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x sex + Age x tarsus + Age x TQ | 13 | 2035.73 | 4.46 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex | 13 | 2035.80 | 4.52 | 0.00 |
| Helpers + Age + Body mass + Tarsus + Age x helpers + Age x tarsus | 11 | 2035.80 | 4.53 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + Age x helpers + Age x sex | 13 | 2035.81 | 4.54 | 0.00 |
| Helpers + Age + Body mass + Tarsus + TQ + Age x tarsus | 11 | 2035.82 | 4.55 | 0.00 |
| Age + Body mass + Tarsus + TQ + Age x tarsus + Age x TQ | 11 | 2035.82 | 4.55 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex + Age x non helpers + Age x tarsus | 14 | 2035.84 | 4.57 | 0.00 |
| Helpers + Age + Tarsus + TQ + Age x helpers + Age x tarsus | 11 | 2035.86 | 4.59 | 0.00 |
| Helpers + Sex + Age + Body mass + Age x sex + Age x mass | 11 | 2035.89 | 4.61 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + Age x sex + Age x mass | 13 | 2035.89 | 4.62 | 0.00 |
| Helpers + Sex + Age + Body mass + Age x mass | 10 | 2035.91 | 4.64 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + Age x mass + Age x non helpers + Age x tarsus | 12 | 2035.95 | 4.67 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex + Age x mass + Age x tarsus | 14 | 2035.97 | 4.69 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + Age x mass + Age x tarsus | 12 | 2035.97 | 4.70 | 0.00 |
| Sex + Age + Body mass + Tarsus + TQ + Age x sex + Age x TQ | 12 | 2035.99 | 4.72 | 0.00 |
| Helpers + Sex + Age + Tarsus + Age x sex | 10 | 2036.02 | 4.75 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + Age x helpers + Age x sex + Age x tarsus | 14 | 2036.02 | 4.75 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex + Age x tarsus | 14 | 2036.03 | 4.76 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex + Age x tarsus + Age x TQ | 14 | 2036.03 | 4.76 | 0.00 |
| Helpers + Age + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus | 12 | 2036.03 | 4.76 | 0.00 |
| Sex + Age + Body mass + Tarsus + TQ + Age x mass | 11 | 2036.03 | 4.76 | 0.00 |
| Age + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus + Age x TQ | 12 | 2036.04 | 4.76 | 0.00 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x sex + Age x non helpers | 12 | 2036.08 | 4.81 | 0.00 |
| Sex + Age + Body mass + Tarsus | 9 | 2036.09 | 4.82 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + Age x mass + Age x tarsus | 12 | 2036.10 | 4.83 | 0.00 |
| Helpers + Sex + Age + Body mass + Age x sex | 10 | 2036.12 | 4.84 | 0.00 |
| Sex + Age + Tarsus + TQ + Age x sex + Age x tarsus + Age x TQ | 12 | 2036.12 | 4.85 | 0.00 |
| Age + Body mass + Non helpers + Age x mass + Age x non helpers | 10 | 2036.13 | 4.85 | 0.00 |
| Helpers + Sex + Age + Tarsus + TQ + Age x sex + Age x tarsus | 12 | 2036.13 | 4.86 | 0.00 |
| Sex + Age + Body mass + Tarsus + TQ + Age x sex + Age x mass + Age x tarsus | 13 | 2036.13 | 4.86 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + Age x sex + Age x mass | 12 | 2036.15 | 4.88 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + TQ + Age x sex | 12 | 2036.16 | 4.89 | 0.00 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus + Age x TQ | 13 | 2036.16 | 4.89 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus | 13 | 2036.17 | 4.89 | 0.00 |
| Sex + Age + Body mass + Tarsus + TQ + Age x sex + Age x tarsus + Age x TQ | 13 | 2036.17 | 4.90 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + Age x helpers + Age x sex + Age x tarsus | 13 | 2036.18 | 4.90 | 0.00 |
| Helpers + Sex + Age + Tarsus + TQ + Age x helpers + Age x tarsus | 12 | 2036.19 | 4.92 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + Age x helpers + Age x sex | 12 | 2036.20 | 4.92 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + TQ + Age x sex + Age x tarsus | 13 | 2036.21 | 4.93 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + Age x mass | 10 | 2036.22 | 4.95 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x mass + Age x non helpers | 12 | 2036.22 | 4.95 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + Age x helpers + Age x sex + Age x tarsus | 13 | 2036.22 | 4.95 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Age x mass | 10 | 2036.23 | 4.95 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + Age x sex + Age x non helpers | 13 | 2036.23 | 4.96 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x helpers + Age x tarsus | 14 | 2036.25 | 4.98 | 0.00 |
| Helpers + Age + Non helpers + Tarsus + TQ + Age x tarsus + Age x TQ | 12 | 2036.26 | 4.99 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + Age x non helpers + Age x tarsus | 12 | 2036.28 | 5.00 | 0.00 |
| Helpers + Age + Non helpers + Tarsus + Age x helpers + Age x non helpers + Age x tarsus | 12 | 2036.30 | 5.02 | 0.00 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x sex + Age x TQ | 12 | 2036.33 | 5.05 | 0.00 |
| Helpers + Age + Body mass + Tarsus + Age x mass + Age x tarsus | 11 | 2036.33 | 5.06 | 0.00 |
| Sex + Age + Body mass + Non helpers + TQ + Age x mass + Age x non helpers | 12 | 2036.33 | 5.06 | 0.00 |
| Sex + Age + Body mass + Non helpers | 9 | 2036.37 | 5.10 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + TQ + Age x sex | 12 | 2036.37 | 5.10 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + Age x mass | 12 | 2036.38 | 5.10 | 0.00 |
| Sex + Age + Body mass + Non helpers + TQ + Age x mass + Age x TQ | 12 | 2036.40 | 5.13 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + TQ + Age x tarsus + Age x TQ | 13 | 2036.43 | 5.16 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + TQ + Age x mass | 12 | 2036.44 | 5.17 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + Age x helpers + Age x non helpers + Age x tarsus | 13 | 2036.45 | 5.17 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + Age x sex + Age x non helpers + Age x tarsus | 13 | 2036.52 | 5.25 | 0.00 |
| Sex + Age + Body mass + Non helpers + TQ + Age x sex + Age x mass + Age x non helpers | 13 | 2036.56 | 5.29 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Age x helpers + Age x mass | 12 | 2036.56 | 5.29 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x sex + Age x mass + Age x non helpers + Age x tarsus | 14 | 2036.58 | 5.30 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + Age x sex + Age x non helpers + Age x tarsus | 14 | 2036.58 | 5.31 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + TQ + Age x helpers + Age x tarsus | 13 | 2036.58 | 5.31 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + TQ + Age x helpers + Age x tarsus | 13 | 2036.59 | 5.32 | 0.00 |
| Sex + Age + Body mass + Non helpers + TQ + Age x sex + Age x mass + Age x TQ | 13 | 2036.61 | 5.34 | 0.00 |
| Helpers + Sex + Age + Tarsus + Age x helpers + Age x sex + Age x tarsus | 12 | 2036.61 | 5.34 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ | 11 | 2036.62 | 5.35 | 0.00 |
| Sex + Age + Body mass + Non helpers + TQ + Age x sex + Age x non helpers | 12 | 2036.62 | 5.35 | 0.00 |
| Sex + Age + Non helpers + Tarsus + TQ | 10 | 2036.62 | 5.35 | 0.00 |
| Sex + Age + Body mass + Non helpers + TQ + Age x sex + Age x TQ | 12 | 2036.67 | 5.40 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + TQ + Age x sex + Age x mass | 13 | 2036.68 | 5.40 | 0.00 |
| Helpers + Age + Tarsus + TQ + Age x tarsus + Age x TQ | 11 | 2036.68 | 5.41 | 0.00 |
| Sex + Age + Tarsus | 8 | 2036.69 | 5.42 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Age x helpers + Age x sex | 12 | 2036.70 | 5.42 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x mass + Age x non helpers + Age x tarsus | 14 | 2036.77 | 5.50 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + Age x sex + Age x mass + Age x tarsus | 14 | 2036.78 | 5.50 | 0.00 |
| Age + Body mass + Tarsus + Age x mass | 9 | 2036.79 | 5.51 | 0.00 |
| Helpers + Age + Body mass + Age x mass | 9 | 2036.80 | 5.52 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + Age x helpers + Age x non helpers + Age x tarsus | 14 | 2036.80 | 5.53 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Age x helpers + Age x sex + Age x mass | 13 | 2036.80 | 5.53 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + TQ + Age x sex | 12 | 2036.87 | 5.59 | 0.00 |
| Sex + Age + Body mass + TQ + Age x sex + Age x mass + Age x TQ | 12 | 2036.89 | 5.62 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + Age x mass | 11 | 2036.90 | 5.62 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x non helpers | 11 | 2036.90 | 5.62 | 0.00 |
| Helpers + Sex + Age + Tarsus + TQ + Age x tarsus + Age x TQ | 12 | 2036.90 | 5.63 | 0.00 |
| Sex + Age + Body mass + TQ + Age x mass + Age x TQ | 11 | 2036.90 | 5.63 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + Age x helpers + Age x sex | 12 | 2036.91 | 5.63 | 0.00 |
| Helpers + Age + Body mass + Tarsus + TQ + Age x helpers + Age x tarsus | 12 | 2036.92 | 5.64 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + Age x helpers + Age x mass + Age x tarsus | 14 | 2036.92 | 5.65 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + Age x sex + Age x mass + Age x tarsus | 13 | 2036.92 | 5.65 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x mass + Age x tarsus | 14 | 2036.93 | 5.66 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus | 14 | 2036.94 | 5.66 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x mass + Age x tarsus + Age x TQ | 14 | 2036.95 | 5.67 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus + Age x TQ | 14 | 2036.96 | 5.68 | 0.00 |
| Sex + Age + Tarsus + TQ + Age x sex + Age x TQ | 11 | 2036.97 | 5.70 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + TQ + Age x mass + Age x non helpers + Age x tarsus | 13 | 2036.99 | 5.71 | 0.00 |
| Helpers + Sex + Age + Body mass + TQ + Age x mass | 11 | 2037.01 | 5.73 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex + Age x mass + Age x non helpers | 14 | 2037.02 | 5.75 | 0.00 |
| Helpers + Sex + Age + Body mass + TQ + Age x sex + Age x mass | 12 | 2037.03 | 5.76 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + Age x sex + Age x non helpers | 12 | 2037.05 | 5.77 | 0.00 |
| Age + Body mass + Non helpers + TQ + Age x mass + Age x non helpers | 11 | 2037.06 | 5.79 | 0.00 |
| Helpers + Sex + Age + Tarsus + TQ + Age x sex | 11 | 2037.07 | 5.80 | 0.00 |
| Age + Body mass + Non helpers + TQ + Age x mass + Age x TQ | 11 | 2037.09 | 5.82 | 0.00 |
| Sex + Age + Non helpers + Tarsus + Age x non helpers | 10 | 2037.10 | 5.83 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + TQ + Age x mass + Age x tarsus | 13 | 2037.11 | 5.83 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex + Age x mass + Age x TQ | 14 | 2037.12 | 5.84 | 0.00 |
| Sex + Age + Body mass + TQ + Age x sex + Age x TQ | 11 | 2037.12 | 5.85 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + TQ + Age x mass + Age x tarsus + Age x TQ | 13 | 2037.12 | 5.85 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + TQ + Age x mass | 11 | 2037.13 | 5.85 | 0.00 |
| Helpers + Age + Body mass + Non helpers + TQ + Age x mass | 11 | 2037.13 | 5.86 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + TQ + Age x helpers + Age x sex + Age x tarsus | 14 | 2037.16 | 5.88 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x tarsus + Age x TQ | 14 | 2037.16 | 5.89 | 0.00 |
| Helpers + Sex + Age + Body mass + Age x helpers + Age x mass | 11 | 2037.16 | 5.89 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex + Age x mass | 14 | 2037.16 | 5.89 | 0.00 |
| Helpers + Sex + Age + Body mass + Age x helpers + Age x sex + Age x mass | 12 | 2037.19 | 5.92 | 0.00 |
| Sex + Age + Body mass + Tarsus + TQ + Age x mass + Age x tarsus + Age x TQ | 13 | 2037.19 | 5.92 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + TQ + Age x mass + Age x tarsus | 13 | 2037.19 | 5.92 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + Age x helpers + Age x mass + Age x tarsus | 13 | 2037.20 | 5.93 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x helpers + Age x sex | 14 | 2037.21 | 5.94 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + Age x helpers + Age x mass + Age x tarsus | 13 | 2037.22 | 5.94 | 0.00 |
| Helpers + Age + Non helpers + Tarsus + TQ + Age x helpers + Age x non helpers + Age x tarsus | 13 | 2037.23 | 5.96 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus | 11 | 2037.24 | 5.97 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Age x mass + Age x non helpers | 12 | 2037.27 | 5.99 | 0.00 |

**Table S2** Model selection table for analysis of factors affecting RTL in Seychelles warbler nestlings, using longitudinal data. Only models that remained in the top model set for model averaging (AICc 6 compared to the top model) are included here. TQ = territory quality.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Model | df | AICc | Delta AICc | Weight |
| Non helpers | 5 | 147.62 | 0.00 | 0.06 |
| Null model | 4 | 147.82 | 0.19 | 0.05 |
| Sex + Non helpers | 6 | 147.96 | 0.33 | 0.05 |
| Sex | 5 | 148.25 | 0.62 | 0.04 |
| Body mass | 5 | 149.15 | 1.52 | 0.03 |
| Body mass + Non helpers | 6 | 149.35 | 1.72 | 0.02 |
| Age | 5 | 149.43 | 1.80 | 0.02 |
| Helpers + Non helpers | 6 | 149.62 | 2.00 | 0.02 |
| Sex + Age | 6 | 149.66 | 2.04 | 0.02 |
| Age + Non helpers | 6 | 149.68 | 2.05 | 0.02 |
| Non helpers + Tarsus | 6 | 149.69 | 2.07 | 0.02 |
| Tarsus | 5 | 149.73 | 2.11 | 0.02 |
| Helpers | 5 | 149.78 | 2.16 | 0.02 |
| Non helpers + TQ | 6 | 149.79 | 2.17 | 0.02 |
| Sex + Age + Non helpers | 7 | 149.92 | 2.30 | 0.02 |
| Sex + Non helpers + Tarsus | 7 | 149.93 | 2.31 | 0.02 |
| Helpers + Sex + Non helpers | 7 | 149.99 | 2.36 | 0.02 |
| TQ | 5 | 150.00 | 2.37 | 0.02 |
| Sex + Non helpers + TQ | 7 | 150.17 | 2.54 | 0.02 |
| Helpers + Sex | 6 | 150.24 | 2.62 | 0.01 |
| Sex + Body mass + Non helpers | 7 | 150.25 | 2.63 | 0.01 |
| Sex + Tarsus | 6 | 150.36 | 2.73 | 0.01 |
| Sex + Body mass | 6 | 150.39 | 2.77 | 0.01 |
| Sex + TQ | 6 | 150.47 | 2.84 | 0.01 |
| Helpers + Age + Non helpers + Age x helpers | 8 | 150.75 | 3.12 | 0.01 |
| Age + Body mass | 6 | 150.92 | 3.30 | 0.01 |
| Age + Tarsus | 6 | 151.05 | 3.43 | 0.01 |
| Helpers + Body mass | 6 | 151.15 | 3.53 | 0.01 |
| Helpers + Sex + Age + Non helpers + Age x helpers | 9 | 151.27 | 3.64 | 0.01 |
| Helpers + Age | 6 | 151.27 | 3.64 | 0.01 |
| Sex + Age + Age x sex | 7 | 151.32 | 3.69 | 0.01 |
| Helpers + Age + Age x helpers | 7 | 151.37 | 3.74 | 0.01 |
| Body mass + Tarsus | 6 | 151.38 | 3.76 | 0.01 |
| Sex + Age + Non helpers + Age x sex | 8 | 151.38 | 3.76 | 0.01 |
| Body mass + TQ | 6 | 151.38 | 3.76 | 0.01 |
| Helpers + Body mass + Non helpers | 7 | 151.39 | 3.77 | 0.01 |
| Age + Non helpers + Age x non helpers | 7 | 151.47 | 3.85 | 0.01 |
| Age + Body mass + Non helpers | 7 | 151.48 | 3.86 | 0.01 |
| Helpers + Sex + Age | 7 | 151.50 | 3.88 | 0.01 |
| Body mass + Non helpers + TQ | 7 | 151.58 | 3.95 | 0.01 |
| Age + TQ | 6 | 151.61 | 3.99 | 0.01 |
| Helpers + Age + Non helpers | 7 | 151.62 | 4.00 | 0.01 |
| Age + Non helpers + Tarsus | 7 | 151.62 | 4.00 | 0.01 |
| Body mass + Non helpers + Tarsus | 7 | 151.63 | 4.01 | 0.01 |
| Helpers + Non helpers + Tarsus | 7 | 151.71 | 4.08 | 0.01 |
| Helpers + Tarsus | 6 | 151.71 | 4.08 | 0.01 |
| Helpers + Sex + Age + Age x helpers | 8 | 151.85 | 4.23 | 0.01 |
| Age + Non helpers + TQ | 7 | 151.86 | 4.24 | 0.01 |
| Helpers + Sex + Age + Non helpers | 8 | 151.87 | 4.24 | 0.01 |
| Helpers + Non helpers + TQ | 7 | 151.87 | 4.24 | 0.01 |
| Sex + Age + TQ | 7 | 151.89 | 4.26 | 0.01 |
| Non helpers + Tarsus + TQ | 7 | 151.91 | 4.29 | 0.01 |
| Sex + Age + Body mass | 7 | 151.93 | 4.31 | 0.01 |
| Sex + Age + Non helpers + Age x non helpers | 8 | 151.93 | 4.31 | 0.01 |
| Sex + Age + Tarsus | 7 | 151.95 | 4.32 | 0.01 |
| Tarsus + TQ | 6 | 151.96 | 4.34 | 0.01 |
| Helpers + TQ | 6 | 152.02 | 4.40 | 0.01 |
| Helpers + Sex + Non helpers + Tarsus | 8 | 152.04 | 4.42 | 0.01 |
| Sex + Age + Non helpers + Tarsus | 8 | 152.10 | 4.47 | 0.01 |
| Sex + Age + Non helpers + TQ | 8 | 152.14 | 4.52 | 0.01 |
| Sex + Non helpers + Tarsus + TQ | 8 | 152.17 | 4.55 | 0.01 |
| Sex + Body mass + Non helpers + Tarsus | 8 | 152.26 | 4.63 | 0.01 |
| Sex + Age + Body mass + Non helpers | 8 | 152.26 | 4.64 | 0.01 |
| Helpers + Sex + Non helpers + TQ | 8 | 152.28 | 4.66 | 0.01 |
| Helpers + Sex + Body mass + Non helpers | 8 | 152.33 | 4.71 | 0.01 |
| Helpers + Sex + Tarsus | 7 | 152.42 | 4.80 | 0.01 |
| Helpers + Sex + Body mass | 7 | 152.43 | 4.81 | 0.00 |
| Helpers + Sex + Age + Non helpers + Age x helpers + Age x sex | 10 | 152.46 | 4.84 | 0.00 |
| Sex + Body mass + Tarsus | 7 | 152.49 | 4.86 | 0.00 |
| Sex + Body mass + Non helpers + TQ | 8 | 152.51 | 4.89 | 0.00 |
| Helpers + Sex + TQ | 7 | 152.53 | 4.90 | 0.00 |
| Helpers + Age + Non helpers + Age x helpers + Age x non helpers | 9 | 152.58 | 4.95 | 0.00 |
| Sex + Tarsus + TQ | 7 | 152.62 | 5.00 | 0.00 |
| Sex + Body mass + TQ | 7 | 152.67 | 5.04 | 0.00 |
| Helpers + Age + Non helpers + Tarsus + Age x helpers | 9 | 152.71 | 5.09 | 0.00 |
| Helpers + Age + Tarsus | 7 | 152.81 | 5.19 | 0.00 |
| Helpers + Age + Body mass | 7 | 152.83 | 5.20 | 0.00 |
| Helpers + Age + Tarsus + Age x helpers | 8 | 152.93 | 5.31 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Age x helpers | 9 | 152.97 | 5.34 | 0.00 |
| Helpers + Age + Non helpers + TQ + Age x helpers | 9 | 152.99 | 5.37 | 0.00 |
| Age + Body mass + Age x mass | 7 | 153.01 | 5.39 | 0.00 |
| Age + Body mass + Tarsus | 7 | 153.05 | 5.42 | 0.00 |
| Age + Body mass + TQ | 7 | 153.17 | 5.55 | 0.00 |
| Age + Tarsus + Age x tarsus | 7 | 153.20 | 5.57 | 0.00 |
| Helpers + Age + Body mass + Age x helpers | 8 | 153.23 | 5.61 | 0.00 |
| Helpers + Sex + Age + Age x sex | 8 | 153.26 | 5.64 | 0.00 |
| Age + Tarsus + TQ | 7 | 153.29 | 5.66 | 0.00 |
| Age + Body mass + Non helpers + Age x non helpers | 8 | 153.29 | 5.67 | 0.00 |
| Sex + Age + Non helpers + Age x sex + Age x non helpers | 9 | 153.29 | 5.67 | 0.00 |
| Helpers + Sex + Age + Non helpers + Age x helpers + Age x non helpers | 10 | 153.34 | 5.71 | 0.00 |
| Helpers + Sex + Age + Age x helpers + Age x sex | 9 | 153.41 | 5.78 | 0.00 |
| Helpers + Body mass + Tarsus | 7 | 153.42 | 5.80 | 0.00 |
| Helpers + Sex + Age + Non helpers + Age x sex | 9 | 153.44 | 5.82 | 0.00 |
| Helpers + Body mass + TQ | 7 | 153.45 | 5.82 | 0.00 |
| Helpers + Age + Body mass + Non helpers | 8 | 153.49 | 5.86 | 0.00 |
| Helpers + Age + Non helpers + Tarsus | 8 | 153.52 | 5.90 | 0.00 |
| Helpers + Age + TQ | 7 | 153.54 | 5.91 | 0.00 |
| Helpers + Sex + Age + Non helpers + TQ + Age x helpers | 10 | 153.55 | 5.93 | 0.00 |
| Age + Non helpers + Tarsus + Age x non helpers | 8 | 153.58 | 5.95 | 0.00 |
| Sex + Age + Non helpers + Tarsus + Age x sex | 9 | 153.60 | 5.98 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Age x helpers | 10 | 153.60 | 5.98 | 0.00 |
| Helpers + Age + Non helpers + Age x non helpers | 8 | 153.60 | 5.98 | 0.00 |
| Sex + Age + TQ + Age x sex | 8 | 153.61 | 5.99 | 0.00 |
| Sex + Age + Body mass + Age x sex | 8 | 153.62 | 6.00 | 0.00 |

**Figure S1** RTL in relation to the time between sampling events. Lines and shaded areas represent fitted values and 95% confidence limits from general linear models. See also Figure 4, main text.

