### 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 + Tarsus + TQ + Age x tarsus | 9 | 331.24 | 0.00 | 0.03 |
| Age + Non helpers + Tarsus + TQ + Age x tarsus | 10 | 331.56 | 0.33 | 0.02 |
| Age + Tarsus + Age x tarsus | 8 | 332.19 | 0.95 | 0.02 |
| Age + Body mass + Tarsus + TQ + Age x tarsus | 10 | 332.32 | 1.08 | 0.02 |
| Age + Non helpers + Tarsus + Age x tarsus | 9 | 332.44 | 1.21 | 0.02 |
| Helpers + Age + Tarsus + TQ + Age x helpers + Age x tarsus | 11 | 332.75 | 1.52 | 0.01 |
| Age + Tarsus + TQ + Age x tarsus + Age x TQ | 10 | 332.78 | 1.55 | 0.01 |
| Age + Body mass + Non helpers + Tarsus + TQ + Age x tarsus | 11 | 332.79 | 1.55 | 0.01 |
| Age + Body mass + TQ + Age x mass | 9 | 332.87 | 1.64 | 0.01 |
| Age + Body mass + Tarsus + Age x tarsus | 9 | 332.90 | 1.67 | 0.01 |
| Helpers + Age + Tarsus + TQ + Age x tarsus | 10 | 332.92 | 1.69 | 0.01 |
| Helpers + Age + Non helpers + Tarsus + TQ + Age x helpers + Age x tarsus | 12 | 333.02 | 1.79 | 0.01 |
| Age + Non helpers + Tarsus + TQ + Age x tarsus + Age x TQ | 11 | 333.03 | 1.80 | 0.01 |
| Sex + Age + Tarsus + TQ + Age x tarsus | 10 | 333.21 | 1.98 | 0.01 |
| Helpers + Age + Non helpers + Tarsus + TQ + Age x tarsus | 11 | 333.27 | 2.03 | 0.01 |
| Age + Body mass + Non helpers + Tarsus + Age x tarsus | 10 | 333.34 | 2.10 | 0.01 |
| Age + Body mass + Non helpers + TQ + Age x mass | 10 | 333.38 | 2.14 | 0.01 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x tarsus | 11 | 333.55 | 2.31 | 0.01 |
| Age + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus | 11 | 333.60 | 2.37 | 0.01 |
| Sex + Age + Body mass + Tarsus + TQ + Age x sex | 11 | 333.73 | 2.49 | 0.01 |
| Helpers + Age + Tarsus + Age x helpers + Age x tarsus | 10 | 333.78 | 2.55 | 0.01 |
| Helpers + Age + Body mass + Tarsus + TQ + Age x helpers + Age x tarsus | 12 | 333.81 | 2.57 | 0.01 |
| Helpers + Age + Tarsus + Age x tarsus | 9 | 333.86 | 2.62 | 0.01 |
| Age + Body mass + Tarsus + TQ + Age x tarsus + Age x TQ | 11 | 333.90 | 2.67 | 0.01 |
| Helpers + Age + Non helpers + Tarsus + Age x helpers + Age x tarsus | 11 | 333.98 | 2.74 | 0.01 |
| Age + Body mass + Age x mass | 8 | 334.02 | 2.79 | 0.01 |
| Age + Body mass + Tarsus + TQ + Age x mass + Age x tarsus | 11 | 334.04 | 2.81 | 0.01 |
| Helpers + Age + Body mass + Tarsus + TQ + Age x tarsus | 11 | 334.10 | 2.87 | 0.01 |
| Sex + Age + Body mass + Tarsus + TQ + Age x tarsus | 11 | 334.11 | 2.87 | 0.01 |
| Helpers + Age + Non helpers + Tarsus + Age x tarsus | 10 | 334.13 | 2.90 | 0.01 |
| Sex + Age + Tarsus + Age x tarsus | 9 | 334.14 | 2.91 | 0.01 |
| Sex + Age + Tarsus + TQ + Age x sex | 10 | 334.14 | 2.91 | 0.01 |
| Helpers + Age + Body mass + Non helpers + Tarsus + TQ + Age x helpers + Age x tarsus | 13 | 334.22 | 2.99 | 0.01 |
| Sex + Age + Body mass + TQ + Age x sex | 10 | 334.23 | 2.99 | 0.01 |
| Sex + Age + Tarsus + TQ + Age x sex + Age x tarsus | 11 | 334.27 | 3.03 | 0.01 |
| Age + Body mass + Non helpers + Tarsus + TQ + Age x tarsus + Age x TQ | 12 | 334.30 | 3.07 | 0.01 |
| Sex + Age + Body mass + Tarsus + Age x sex | 10 | 334.36 | 3.13 | 0.01 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex | 12 | 334.41 | 3.17 | 0.01 |
| Sex + Age + Non helpers + Tarsus + Age x tarsus | 10 | 334.41 | 3.17 | 0.01 |
| Helpers + Age + Tarsus + TQ + Age x helpers + Age x tarsus + Age x TQ | 12 | 334.45 | 3.21 | 0.01 |
| Age + Body mass + Non helpers + Age x mass | 9 | 334.45 | 3.22 | 0.01 |
| Helpers + Age + Body mass + Tarsus + Age x helpers + Age x tarsus | 11 | 334.46 | 3.23 | 0.01 |
| Age + Non helpers + Tarsus + Age x non helpers + Age x tarsus | 10 | 334.48 | 3.24 | 0.01 |
| Helpers + Age + Tarsus + TQ + Age x tarsus + Age x TQ | 11 | 334.50 | 3.27 | 0.01 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x sex | 11 | 334.54 | 3.31 | 0.01 |
| Sex + Age + Body mass + TQ + Age x sex + Age x mass | 11 | 334.55 | 3.32 | 0.01 |
| Helpers + Age + Body mass + TQ + Age x helpers + Age x mass | 11 | 334.57 | 3.34 | 0.01 |
| Helpers + Age + Body mass + Non helpers + Tarsus + TQ + Age x tarsus | 12 | 334.58 | 3.35 | 0.01 |
| Age + Body mass + Non helpers + Tarsus + TQ + Age x mass + Age x tarsus | 12 | 334.59 | 3.36 | 0.01 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x tarsus | 12 | 334.61 | 3.38 | 0.01 |
| Sex + Age + Body mass + Tarsus + TQ + Age x sex + Age x tarsus | 12 | 334.62 | 3.39 | 0.01 |
| Sex + Age + Body mass + Tarsus + Age x tarsus | 10 | 334.63 | 3.39 | 0.01 |
| Helpers + Age + Body mass + TQ + Age x mass | 10 | 334.64 | 3.41 | 0.01 |
| Helpers + Age + Non helpers + Tarsus + TQ + Age x helpers + Age x tarsus + Age x TQ | 13 | 334.65 | 3.42 | 0.01 |
| Age + Body mass + TQ + Age x mass + Age x TQ | 10 | 334.66 | 3.42 | 0.01 |
| Sex + Age + Body mass + TQ + Age x mass | 10 | 334.68 | 3.44 | 0.01 |
| Helpers + Age + Body mass + Tarsus + Age x tarsus | 10 | 334.68 | 3.45 | 0.01 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x sex + Age x tarsus | 12 | 334.73 | 3.50 | 0.01 |
| Age + Body mass + Tarsus + Age x mass + Age x tarsus | 10 | 334.75 | 3.51 | 0.00 |
| Helpers + Age + Non helpers + Tarsus + TQ + Age x tarsus + Age x TQ | 12 | 334.78 | 3.54 | 0.00 |
| Sex + Age + Tarsus + TQ + Age x tarsus + Age x TQ | 11 | 334.78 | 3.54 | 0.00 |
| Age + Body mass + Tarsus + TQ + Age x mass | 10 | 334.78 | 3.55 | 0.00 |
| Helpers + Sex + Age + Tarsus + TQ + Age x helpers + Age x tarsus | 12 | 334.79 | 3.55 | 0.00 |
| Sex + Age + Body mass + Non helpers + TQ + Age x sex | 11 | 334.80 | 3.56 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus | 12 | 334.80 | 3.57 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + Age x helpers + Age x tarsus | 12 | 334.84 | 3.61 | 0.00 |
| Sex + Age + Body mass + Age x sex | 9 | 334.85 | 3.61 | 0.00 |
| Helpers + Sex + Age + Tarsus + TQ + Age x tarsus | 11 | 334.91 | 3.67 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x sex | 11 | 334.99 | 3.76 | 0.00 |
| Helpers + Age + Body mass + Non helpers + TQ + Age x helpers + Age x mass | 12 | 335.02 | 3.78 | 0.00 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x tarsus + Age x TQ | 12 | 335.05 | 3.81 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + TQ + Age x helpers + Age x tarsus | 13 | 335.07 | 3.83 | 0.00 |
| Helpers + Age + Non helpers + Tarsus + TQ + Age x helpers + Age x non helpers + Age x tarsus | 13 | 335.08 | 3.85 | 0.00 |
| Age + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus + Age x TQ | 12 | 335.10 | 3.86 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x tarsus | 11 | 335.10 | 3.87 | 0.00 |
| Age + Body mass + Non helpers + TQ + Age x mass + Age x TQ | 11 | 335.11 | 3.87 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + Age x tarsus | 11 | 335.13 | 3.90 | 0.00 |
| Helpers + Age + Body mass + Non helpers + TQ + Age x mass | 11 | 335.16 | 3.93 | 0.00 |
| Sex + Age + Body mass + Tarsus + Age x sex + Age x tarsus | 11 | 335.18 | 3.95 | 0.00 |
| Sex + Age + Body mass + Non helpers + TQ + Age x mass | 11 | 335.21 | 3.98 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + Age x mass + Age x tarsus | 11 | 335.25 | 4.01 | 0.00 |
| Sex + Age + Body mass + Non helpers + TQ + Age x sex + Age x mass | 12 | 335.26 | 4.03 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + TQ + Age x tarsus | 12 | 335.27 | 4.03 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + TQ + Age x mass | 11 | 335.28 | 4.05 | 0.00 |
| Sex + Age + Tarsus + Age x sex + Age x tarsus | 10 | 335.30 | 4.06 | 0.00 |
| Age + Body mass + Non helpers + TQ + Age x mass + Age x non helpers | 11 | 335.30 | 4.06 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex + Age x tarsus | 13 | 335.31 | 4.08 | 0.00 |
| Helpers + Age + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus | 12 | 335.32 | 4.09 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + Age x non helpers + Age x tarsus | 11 | 335.34 | 4.11 | 0.00 |
| Sex + Age + Body mass + Tarsus + TQ + Age x sex + Age x mass | 12 | 335.37 | 4.14 | 0.00 |
| Sex + Age + Tarsus + Age x sex | 9 | 335.37 | 4.14 | 0.00 |
| Sex + Age + Body mass + Non helpers + Age x sex | 10 | 335.38 | 4.15 | 0.00 |
| Sex + Age + Body mass + Age x sex + Age x mass | 10 | 335.43 | 4.20 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + TQ + Age x helpers + Age x sex | 13 | 335.51 | 4.28 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + TQ + Age x sex | 12 | 335.52 | 4.28 | 0.00 |
| Helpers + Age + Body mass + Tarsus + TQ + Age x helpers + Age x tarsus + Age x TQ | 13 | 335.54 | 4.30 | 0.00 |
| Sex + Age + Body mass + Tarsus + TQ + Age x sex + Age x TQ | 12 | 335.56 | 4.33 | 0.00 |
| Helpers + Age + Body mass + Tarsus + TQ + Age x helpers + Age x mass + Age x tarsus | 13 | 335.60 | 4.36 | 0.00 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus | 12 | 335.60 | 4.36 | 0.00 |
| Age + Body mass + Tarsus + TQ + Age x mass + Age x tarsus + Age x TQ | 12 | 335.63 | 4.40 | 0.00 |
| Sex + Age + Non helpers + Tarsus + Age x sex | 10 | 335.66 | 4.43 | 0.00 |
| Sex + Age + Non helpers + Tarsus + Age x sex + Age x tarsus | 11 | 335.68 | 4.44 | 0.00 |
| Sex + Age + Body mass + Age x mass | 9 | 335.69 | 4.45 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + TQ + Age x helpers + Age x tarsus | 13 | 335.70 | 4.46 | 0.00 |
| Helpers + Age + Body mass + Tarsus + TQ + Age x tarsus + Age x TQ | 12 | 335.72 | 4.48 | 0.00 |
| Sex + Age + Body mass + Tarsus + TQ + Age x tarsus + Age x TQ | 12 | 335.74 | 4.50 | 0.00 |
| Helpers + Sex + Age + Tarsus + TQ + Age x sex | 11 | 335.77 | 4.53 | 0.00 |
| Helpers + Age + Body mass + Age x mass | 9 | 335.78 | 4.54 | 0.00 |
| Helpers + Sex + Age + Tarsus + Age x helpers + Age x tarsus | 11 | 335.80 | 4.56 | 0.00 |
| Helpers + Sex + Age + Body mass + TQ + Age x helpers + Age x sex | 12 | 335.81 | 4.57 | 0.00 |
| Helpers + Age + Body mass + Age x helpers + Age x mass | 10 | 335.81 | 4.57 | 0.00 |
| Helpers + Sex + Age + Tarsus + Age x tarsus | 10 | 335.82 | 4.59 | 0.00 |
| Helpers + Age + Body mass + Tarsus + TQ + Age x mass + Age x tarsus | 12 | 335.82 | 4.59 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x sex + Age x tarsus | 12 | 335.83 | 4.60 | 0.00 |
| Sex + Age + Tarsus + TQ + Age x sex + Age x tarsus + Age x TQ | 12 | 335.87 | 4.64 | 0.00 |
| Helpers + Sex + Age + Tarsus + TQ + Age x helpers + Age x sex + Age x tarsus | 13 | 335.89 | 4.65 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + TQ + Age x helpers + Age x tarsus + Age x TQ | 14 | 335.89 | 4.66 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + TQ + Age x tarsus | 12 | 335.92 | 4.68 | 0.00 |
| Helpers + Sex + Age + Tarsus + TQ + Age x helpers + Age x sex | 12 | 335.93 | 4.70 | 0.00 |
| Sex + Age + Body mass + Tarsus + TQ + Age x mass + Age x tarsus | 12 | 335.94 | 4.70 | 0.00 |
| Helpers + Sex + Age + Tarsus + TQ + Age x sex + Age x tarsus | 12 | 335.94 | 4.70 | 0.00 |
| Age + Body mass + Tarsus + Age x mass | 9 | 335.94 | 4.71 | 0.00 |
| Sex + Age + Tarsus + TQ + Age x sex + Age x TQ | 11 | 335.94 | 4.71 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + Age x helpers + Age x tarsus | 12 | 336.00 | 4.77 | 0.00 |
| Helpers + Age + Non helpers + Tarsus + Age x helpers + Age x non helpers + Age x tarsus | 12 | 336.04 | 4.80 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + TQ + Age x helpers + Age x mass + Age x tarsus | 14 | 336.09 | 4.85 | 0.00 |
| Sex + Age + Body mass + Non helpers + Age x sex + Age x mass | 11 | 336.09 | 4.86 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex + Age x mass | 13 | 336.11 | 4.87 | 0.00 |
| Helpers + Sex + Age + Body mass + TQ + Age x sex | 11 | 336.11 | 4.87 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + Age x tarsus | 11 | 336.11 | 4.88 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + TQ + Age x mass + Age x tarsus + Age x TQ | 13 | 336.11 | 4.88 | 0.00 |
| Sex + Age + Body mass + TQ + Age x sex + Age x TQ | 11 | 336.12 | 4.89 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + TQ + Age x tarsus + Age x TQ | 13 | 336.13 | 4.89 | 0.00 |
| Sex + Age + Body mass + Tarsus + Age x sex + Age x mass | 11 | 336.13 | 4.90 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x helpers + Age x sex | 14 | 336.13 | 4.90 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x helpers + Age x tarsus | 14 | 336.14 | 4.91 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + Age x sex | 11 | 336.15 | 4.92 | 0.00 |
| Sex + Age + Body mass + Non helpers + Age x mass | 10 | 336.16 | 4.93 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x tarsus + Age x TQ | 13 | 336.17 | 4.94 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Age x helpers + Age x mass | 11 | 336.18 | 4.94 | 0.00 |
| Helpers + Age + Non helpers + Tarsus + Age x non helpers + Age x tarsus | 11 | 336.18 | 4.95 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + TQ + Age x sex | 12 | 336.19 | 4.96 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex + Age x TQ | 13 | 336.19 | 4.96 | 0.00 |
| Sex + Age + Body mass + Tarsus + TQ + Age x mass | 11 | 336.20 | 4.96 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex | 13 | 336.21 | 4.97 | 0.00 |
| Helpers + Sex + Age + Body mass + TQ + Age x helpers + Age x sex + Age x mass | 13 | 336.21 | 4.98 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Age x mass | 10 | 336.23 | 4.99 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + Age x helpers + Age x sex | 12 | 336.23 | 4.99 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + TQ + Age x helpers + Age x non helpers + Age x tarsus | 14 | 336.26 | 5.03 | 0.00 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x sex + Age x tarsus + Age x TQ | 13 | 336.27 | 5.03 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + TQ + Age x helpers + Age x sex + Age x tarsus | 14 | 336.27 | 5.04 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + TQ + Age x helpers + Age x sex | 13 | 336.28 | 5.04 | 0.00 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x sex + Age x TQ | 12 | 336.29 | 5.06 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + Age x helpers + Age x tarsus | 12 | 336.29 | 5.06 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + TQ + Age x helpers + Age x sex + Age x tarsus | 14 | 336.29 | 5.06 | 0.00 |
| Sex + Age + Body mass + Tarsus + TQ + Age x sex + Age x tarsus + Age x TQ | 13 | 336.31 | 5.07 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + TQ + Age x helpers + Age x sex | 13 | 336.32 | 5.09 | 0.00 |
| Sex + Age + Body mass + TQ + Age x sex + Age x mass + Age x TQ | 12 | 336.35 | 5.11 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus + Age x TQ | 13 | 336.35 | 5.12 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + Age x mass | 10 | 336.36 | 5.13 | 0.00 |
| Helpers + Age + Body mass + Tarsus + Age x helpers + Age x mass + Age x tarsus | 12 | 336.37 | 5.13 | 0.00 |
| Age + Body mass + Non helpers + Age x mass + Age x non helpers | 10 | 336.37 | 5.14 | 0.00 |
| Helpers + Sex + Age + Body mass + TQ + Age x sex + Age x mass | 12 | 336.39 | 5.15 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + TQ + Age x mass + Age x tarsus | 13 | 336.39 | 5.15 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + TQ + Age x sex + Age x tarsus | 13 | 336.42 | 5.19 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + TQ + Age x sex + Age x tarsus | 13 | 336.43 | 5.19 | 0.00 |
| Helpers + Sex + Age + Body mass + TQ + Age x helpers + Age x mass | 12 | 336.43 | 5.19 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + Age x tarsus | 11 | 336.43 | 5.20 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x tarsus | 13 | 336.43 | 5.20 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex + Age x non helpers | 13 | 336.44 | 5.21 | 0.00 |
| Helpers + Age + Body mass + TQ + Age x mass + Age x TQ | 11 | 336.45 | 5.21 | 0.00 |
| Sex + Age + Non helpers + Tarsus + Age x non helpers + Age x tarsus | 11 | 336.46 | 5.22 | 0.00 |
| Helpers + Age + Body mass + TQ + Age x helpers + Age x mass + Age x TQ | 12 | 336.47 | 5.23 | 0.00 |
| Sex + Age + Body mass + TQ + Age x mass + Age x TQ | 11 | 336.48 | 5.25 | 0.00 |
| Helpers + Sex + Age + Body mass + TQ + Age x mass | 11 | 336.49 | 5.25 | 0.00 |
| Helpers + Sex + Age + Tarsus + TQ + Age x helpers + Age x tarsus + Age x TQ | 13 | 336.50 | 5.26 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x mass + Age x tarsus | 13 | 336.51 | 5.27 | 0.00 |
| Helpers + Sex + Age + Tarsus + TQ + Age x tarsus + Age x TQ | 12 | 336.51 | 5.27 | 0.00 |
| Helpers + Age + Body mass + Tarsus + TQ + Age x helpers + Age x mass | 12 | 336.52 | 5.28 | 0.00 |
| Helpers + Sex + Age + Body mass + Age x helpers + Age x sex | 11 | 336.52 | 5.28 | 0.00 |
| Age + Non helpers + Tarsus + TQ | 9 | 336.52 | 5.29 | 0.00 |
| Helpers + Age + Body mass + Tarsus + TQ + Age x mass | 11 | 336.52 | 5.29 | 0.00 |
| Age + Body mass + TQ | 8 | 336.53 | 5.29 | 0.00 |
| Helpers + Age + Body mass + Tarsus + Age x mass + Age x tarsus | 11 | 336.53 | 5.29 | 0.00 |
| Age + Body mass + Non helpers + TQ | 9 | 336.54 | 5.30 | 0.00 |
| Sex + Age + Body mass + Tarsus + Age x mass + Age x tarsus | 11 | 336.56 | 5.33 | 0.00 |
| Age + Body mass + Tarsus + TQ + Age x mass + Age x TQ | 11 | 336.56 | 5.33 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + TQ + Age x mass + Age x non helpers + Age x tarsus | 13 | 336.58 | 5.34 | 0.00 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x sex + Age x non helpers | 12 | 336.61 | 5.38 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus | 13 | 336.61 | 5.38 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus | 13 | 336.64 | 5.41 | 0.00 |
| Sex + Age + Body mass + Non helpers + TQ + Age x sex + Age x TQ | 12 | 336.65 | 5.42 | 0.00 |
| Age + Tarsus + TQ | 8 | 336.66 | 5.42 | 0.00 |
| Sex + Age + Body mass + Tarsus + TQ + Age x sex + Age x mass + Age x tarsus | 13 | 336.66 | 5.42 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + TQ + Age x sex | 12 | 336.69 | 5.46 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + Age x helpers + Age x tarsus | 13 | 336.71 | 5.47 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + TQ + Age x helpers + Age x tarsus + Age x TQ | 14 | 336.71 | 5.48 | 0.00 |
| Helpers + Sex + Age + Body mass + Age x sex | 10 | 336.72 | 5.49 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x mass | 12 | 336.73 | 5.50 | 0.00 |
| Helpers + Age + Non helpers + Tarsus + TQ + Age x helpers + Age x non helpers + Age x tarsus + Age x TQ | 14 | 336.74 | 5.50 | 0.00 |
| Sex + Age + Non helpers + Tarsus + TQ | 10 | 336.78 | 5.55 | 0.00 |
| Sex + Age + Tarsus + TQ | 9 | 336.79 | 5.55 | 0.00 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x sex + Age x non helpers + Age x tarsus | 13 | 336.79 | 5.55 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + Age x sex | 12 | 336.79 | 5.56 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + TQ + Age x tarsus + Age x TQ | 13 | 336.80 | 5.56 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + Age x helpers + Age x sex | 13 | 336.80 | 5.56 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + Age x helpers + Age x mass + Age x tarsus | 13 | 336.80 | 5.57 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x sex + Age x mass | 12 | 336.81 | 5.58 | 0.00 |
| Sex + Age + Body mass + Non helpers + TQ + Age x sex + Age x non helpers | 12 | 336.84 | 5.61 | 0.00 |
| Helpers + Age + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus + Age x TQ | 13 | 336.85 | 5.62 | 0.00 |
| Helpers + Age + Body mass + Non helpers + TQ + Age x helpers + Age x mass + Age x TQ | 13 | 336.87 | 5.63 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + TQ + Age x helpers + Age x sex + Age x mass | 14 | 336.87 | 5.64 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + Age x helpers + Age x non helpers + Age x tarsus | 13 | 336.87 | 5.64 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x helpers + Age x sex + Age x tarsus | 15 | 336.90 | 5.67 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + TQ + Age x helpers + Age x mass | 13 | 336.90 | 5.67 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + Age x helpers + Age x sex + Age x tarsus | 13 | 336.91 | 5.67 | 0.00 |
| Helpers + Age + Body mass + Non helpers + TQ + Age x mass + Age x TQ | 12 | 336.92 | 5.68 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + Age x tarsus | 12 | 336.92 | 5.68 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex + Age x tarsus + Age x TQ | 14 | 336.93 | 5.69 | 0.00 |
| Helpers + Sex + Age + Tarsus + Age x sex + Age x tarsus | 11 | 336.95 | 5.72 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + TQ + Age x helpers + Age x mass | 13 | 336.96 | 5.72 | 0.00 |
| Sex + Age + Body mass + Non helpers + TQ + Age x mass + Age x TQ | 12 | 336.97 | 5.73 | 0.00 |
| Helpers + Sex + Age + Tarsus + Age x sex | 10 | 336.98 | 5.74 | 0.00 |
| Helpers + Age + Body mass + Non helpers + TQ + Age x helpers + Age x mass + Age x non helpers | 13 | 336.98 | 5.74 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + Age x sex + Age x tarsus | 12 | 336.98 | 5.75 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Age x helpers + Age x sex | 12 | 336.99 | 5.76 | 0.00 |
| Helpers + Sex + Age + Tarsus + Age x helpers + Age x sex + Age x tarsus | 12 | 337.00 | 5.76 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + TQ + Age x mass + Age x TQ | 12 | 337.01 | 5.77 | 0.00 |
| Sex + Age + Body mass + Non helpers + TQ + Age x sex + Age x mass + Age x TQ | 13 | 337.01 | 5.77 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x sex + Age x non helpers | 12 | 337.02 | 5.78 | 0.00 |
| Sex + Age + Body mass + Tarsus + TQ | 10 | 337.02 | 5.79 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + TQ + Age x mass | 12 | 337.03 | 5.80 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + TQ + Age x mass | 12 | 337.04 | 5.80 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + Age x mass + Age x tarsus | 12 | 337.04 | 5.81 | 0.00 |
| Age + Body mass + Non helpers + TQ + Age x mass + Age x non helpers + Age x TQ | 12 | 337.07 | 5.84 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x mass + Age x tarsus | 12 | 337.08 | 5.85 | 0.00 |
| Helpers + Age + Body mass + Non helpers + TQ + Age x mass + Age x non helpers | 12 | 337.10 | 5.87 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + TQ + Age x sex + Age x mass | 13 | 337.11 | 5.88 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x non helpers + Age x tarsus | 12 | 337.12 | 5.88 | 0.00 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus + Age x TQ | 13 | 337.12 | 5.88 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex + Age x tarsus | 14 | 337.13 | 5.89 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + TQ + Age x helpers + Age x non helpers + Age x tarsus | 14 | 337.14 | 5.90 | 0.00 |
| Sex + Age + Body mass + Tarsus + Age x mass | 10 | 337.15 | 5.91 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + Age x non helpers + Age x tarsus | 12 | 337.15 | 5.92 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + TQ + Age x sex + Age x mass | 13 | 337.15 | 5.92 | 0.00 |
| Sex + Age + Body mass + Non helpers + TQ + Age x mass + Age x non helpers | 12 | 337.15 | 5.92 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + TQ + Age x helpers + Age x sex + Age x mass | 14 | 337.16 | 5.93 | 0.00 |
| Sex + Age + Body mass + Tarsus + TQ + Age x sex + Age x mass + Age x TQ | 13 | 337.16 | 5.93 | 0.00 |
| Helpers + Sex + Age + Body mass + Age x helpers + Age x sex + Age x mass | 12 | 337.18 | 5.95 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + TQ + Age x mass + Age x non helpers | 12 | 337.21 | 5.98 | 0.00 |
| Sex + Age + Body mass + Non helpers + TQ + Age x sex + Age x mass + Age x non helpers | 13 | 337.23 | 5.99 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + Age x mass + Age x non helpers + Age x tarsus | 12 | 337.23 | 6.00 | 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 |
| Null model | 4 | 118.39 | 0.00 | 0.09 |
| Sex | 5 | 118.89 | 0.51 | 0.07 |
| Age | 5 | 120.11 | 1.72 | 0.04 |
| Body mass | 5 | 120.43 | 2.04 | 0.03 |
| Helpers | 5 | 120.44 | 2.06 | 0.03 |
| Tarsus | 5 | 120.50 | 2.12 | 0.03 |
| Sex + Age | 6 | 120.52 | 2.13 | 0.03 |
| TQ | 5 | 120.52 | 2.14 | 0.03 |
| Non helpers | 5 | 120.58 | 2.19 | 0.03 |
| Sex + Tarsus | 6 | 120.60 | 2.22 | 0.03 |
| Helpers + Age + Age x helpers | 7 | 120.72 | 2.33 | 0.03 |
| Helpers + Sex | 6 | 121.08 | 2.70 | 0.02 |
| Sex + Body mass | 6 | 121.13 | 2.74 | 0.02 |
| Sex + TQ | 6 | 121.14 | 2.75 | 0.02 |
| Sex + Non helpers | 6 | 121.14 | 2.76 | 0.02 |
| Sex + Age + Age x sex | 7 | 121.30 | 2.91 | 0.02 |
| Helpers + Sex + Age + Age x helpers | 8 | 121.30 | 2.92 | 0.02 |
| Helpers + Sex + Age + Age x helpers + Age x sex | 9 | 121.58 | 3.20 | 0.02 |
| Age + Tarsus | 6 | 122.16 | 3.77 | 0.01 |
| Age + Body mass | 6 | 122.26 | 3.87 | 0.01 |
| Helpers + Age | 6 | 122.29 | 3.90 | 0.01 |
| Age + TQ | 6 | 122.30 | 3.92 | 0.01 |
| Age + Non helpers | 6 | 122.36 | 3.98 | 0.01 |
| Sex + Age + Tarsus | 7 | 122.48 | 4.09 | 0.01 |
| Helpers + Body mass | 6 | 122.55 | 4.17 | 0.01 |
| Body mass + TQ | 6 | 122.60 | 4.21 | 0.01 |
| Helpers + Tarsus | 6 | 122.64 | 4.26 | 0.01 |
| Helpers + TQ | 6 | 122.67 | 4.28 | 0.01 |
| Body mass + Tarsus | 6 | 122.67 | 4.28 | 0.01 |
| Helpers + Non helpers | 6 | 122.68 | 4.29 | 0.01 |
| Body mass + Non helpers | 6 | 122.69 | 4.30 | 0.01 |
| Tarsus + TQ | 6 | 122.69 | 4.30 | 0.01 |
| Sex + Age + Body mass | 7 | 122.74 | 4.35 | 0.01 |
| Non helpers + Tarsus | 6 | 122.75 | 4.37 | 0.01 |
| Non helpers + TQ | 6 | 122.76 | 4.38 | 0.01 |
| Helpers + Sex + Tarsus | 7 | 122.76 | 4.38 | 0.01 |
| Helpers + Age + Tarsus + Age x helpers | 8 | 122.80 | 4.41 | 0.01 |
| Helpers + Sex + Age | 7 | 122.81 | 4.43 | 0.01 |
| Sex + Age + TQ | 7 | 122.81 | 4.43 | 0.01 |
| Sex + Age + Non helpers | 7 | 122.83 | 4.44 | 0.01 |
| Sex + Non helpers + Tarsus | 7 | 122.87 | 4.49 | 0.01 |
| Sex + Tarsus + TQ | 7 | 122.91 | 4.52 | 0.01 |
| Sex + Body mass + Tarsus | 7 | 122.91 | 4.53 | 0.01 |
| Helpers + Age + Non helpers + Age x helpers | 8 | 122.97 | 4.58 | 0.01 |
| Helpers + Age + TQ + Age x helpers | 8 | 123.05 | 4.66 | 0.01 |
| Helpers + Age + Body mass + Age x helpers | 8 | 123.08 | 4.69 | 0.01 |
| Helpers + Sex + Age + Body mass + Age x helpers | 9 | 123.29 | 4.90 | 0.01 |
| Helpers + Sex + Body mass | 7 | 123.36 | 4.98 | 0.01 |
| Helpers + Sex + Non helpers | 7 | 123.38 | 4.99 | 0.01 |
| Helpers + Sex + TQ | 7 | 123.39 | 5.00 | 0.01 |
| Sex + Age + Tarsus + Age x sex | 8 | 123.40 | 5.01 | 0.01 |
| Sex + Body mass + Non helpers | 7 | 123.42 | 5.03 | 0.01 |
| Sex + Body mass + TQ | 7 | 123.43 | 5.04 | 0.01 |
| Sex + Non helpers + TQ | 7 | 123.44 | 5.05 | 0.01 |
| Helpers + Sex + Age + Tarsus + Age x helpers | 9 | 123.46 | 5.07 | 0.01 |
| Sex + Age + Body mass + Age x sex | 8 | 123.62 | 5.23 | 0.01 |
| Sex + Age + Non helpers + Age x sex | 8 | 123.63 | 5.25 | 0.01 |
| Sex + Age + TQ + Age x sex | 8 | 123.64 | 5.26 | 0.01 |
| Helpers + Sex + Age + Age x sex | 8 | 123.64 | 5.26 | 0.01 |
| Helpers + Sex + Age + Non helpers + Age x helpers | 9 | 123.64 | 5.26 | 0.01 |
| Age + TQ + Age x TQ | 7 | 123.69 | 5.31 | 0.01 |
| Helpers + Sex + Age + TQ + Age x helpers | 9 | 123.71 | 5.33 | 0.01 |
| Helpers + Sex + Age + Body mass + Age x helpers + Age x sex | 10 | 123.76 | 5.38 | 0.01 |
| Helpers + Sex + Age + Non helpers + Age x helpers + Age x sex | 10 | 123.79 | 5.40 | 0.01 |
| Helpers + Sex + Age + Tarsus + Age x helpers + Age x sex | 10 | 123.90 | 5.52 | 0.01 |
| Helpers + Sex + Age + TQ + Age x helpers + Age x sex | 10 | 124.04 | 5.65 | 0.01 |
| Sex + Age + TQ + Age x TQ | 8 | 124.16 | 5.78 | 0.00 |
| Age + Body mass + Age x mass | 7 | 124.18 | 5.80 | 0.00 |
| Age + Tarsus + Age x tarsus | 7 | 124.29 | 5.90 | 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.

