### 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 | 477.26 | 0.00 | 0.02 |
| Age + Non helpers + Tarsus + TQ + Age x tarsus | 10 | 477.29 | 0.03 | 0.02 |
| Sex + Age + Tarsus + TQ + Age x tarsus | 10 | 477.66 | 0.40 | 0.02 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x tarsus | 11 | 477.67 | 0.41 | 0.02 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x sex | 11 | 478.16 | 0.90 | 0.02 |
| Sex + Age + Tarsus + TQ + Age x sex | 10 | 478.16 | 0.90 | 0.02 |
| Age + Tarsus + Age x tarsus | 8 | 478.20 | 0.94 | 0.02 |
| Age + Non helpers + Tarsus + Age x tarsus | 9 | 478.35 | 1.09 | 0.01 |
| Sex + Age + Tarsus + TQ + Age x sex + Age x tarsus | 11 | 478.40 | 1.14 | 0.01 |
| Sex + Age + Tarsus + Age x tarsus | 9 | 478.52 | 1.26 | 0.01 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x sex + Age x tarsus | 12 | 478.53 | 1.27 | 0.01 |
| Sex + Age + Non helpers + Tarsus + Age x tarsus | 10 | 478.65 | 1.39 | 0.01 |
| Sex + Age + Body mass + Tarsus + TQ + Age x sex | 11 | 478.91 | 1.65 | 0.01 |
| Age + Body mass + Tarsus + TQ + Age x tarsus | 10 | 479.12 | 1.86 | 0.01 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex | 12 | 479.13 | 1.87 | 0.01 |
| Age + Body mass + Non helpers + Tarsus + TQ + Age x tarsus | 11 | 479.22 | 1.96 | 0.01 |
| Sex + Age + Body mass + Tarsus + TQ + Age x tarsus | 11 | 479.22 | 1.96 | 0.01 |
| Age + Tarsus + TQ + Age x tarsus + Age x TQ | 10 | 479.26 | 2.00 | 0.01 |
| Age + Non helpers + Tarsus + TQ + Age x tarsus + Age x TQ | 11 | 479.27 | 2.01 | 0.01 |
| Age + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus | 11 | 479.28 | 2.01 | 0.01 |
| Helpers + Age + Tarsus + TQ + Age x tarsus | 10 | 479.28 | 2.02 | 0.01 |
| Helpers + Age + Non helpers + Tarsus + TQ + Age x tarsus | 11 | 479.32 | 2.06 | 0.01 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x tarsus | 12 | 479.34 | 2.08 | 0.01 |
| Sex + Age + Tarsus + Age x sex | 9 | 479.38 | 2.12 | 0.01 |
| Sex + Age + Tarsus + Age x sex + Age x tarsus | 10 | 479.45 | 2.19 | 0.01 |
| Sex + Age + Non helpers + Tarsus + Age x sex | 10 | 479.47 | 2.21 | 0.01 |
| Sex + Age + Body mass + Tarsus + TQ + Age x sex + Age x tarsus | 12 | 479.62 | 2.36 | 0.01 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus | 12 | 479.64 | 2.38 | 0.01 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x tarsus + Age x TQ | 12 | 479.65 | 2.39 | 0.01 |
| Sex + Age + Tarsus + TQ + Age x tarsus + Age x TQ | 11 | 479.66 | 2.40 | 0.01 |
| Sex + Age + Body mass + Tarsus + Age x sex | 10 | 479.67 | 2.41 | 0.01 |
| Sex + Age + Non helpers + Tarsus + Age x sex + Age x tarsus | 11 | 479.69 | 2.43 | 0.01 |
| Helpers + Sex + Age + Tarsus + TQ + Age x tarsus | 11 | 479.70 | 2.44 | 0.01 |
| Helpers + Sex + Age + Non helpers + Tarsus + TQ + Age x tarsus | 12 | 479.71 | 2.45 | 0.01 |
| Sex + Age + Body mass + Tarsus + Age x tarsus | 10 | 479.78 | 2.52 | 0.01 |
| Age + Body mass + Tarsus + Age x tarsus | 9 | 479.87 | 2.60 | 0.01 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex + Age x tarsus | 13 | 479.92 | 2.65 | 0.01 |
| Age + Body mass + Non helpers + TQ + Age x mass | 10 | 479.98 | 2.72 | 0.01 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x sex | 11 | 480.01 | 2.75 | 0.01 |
| Age + Body mass + TQ + Age x mass | 9 | 480.02 | 2.76 | 0.01 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x tarsus | 11 | 480.04 | 2.78 | 0.01 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x sex + Age x non helpers | 12 | 480.10 | 2.84 | 0.01 |
| Age + Body mass + Non helpers + Tarsus + Age x tarsus | 10 | 480.11 | 2.85 | 0.01 |
| Helpers + Sex + Age + Non helpers + Tarsus + TQ + Age x sex | 12 | 480.22 | 2.96 | 0.01 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x sex + Age x TQ | 12 | 480.22 | 2.96 | 0.01 |
| Helpers + Sex + Age + Tarsus + TQ + Age x sex | 11 | 480.22 | 2.96 | 0.01 |
| Sex + Age + Tarsus + TQ + Age x sex + Age x TQ | 11 | 480.22 | 2.96 | 0.01 |
| Helpers + Age + Tarsus + Age x tarsus | 9 | 480.23 | 2.97 | 0.01 |
| Sex + Age + Body mass + TQ + Age x sex + Age x mass | 11 | 480.24 | 2.98 | 0.01 |
| Sex + Age + Body mass + Tarsus + TQ + Age x sex + Age x mass | 12 | 480.28 | 3.02 | 0.01 |
| Helpers + Age + Non helpers + Tarsus + TQ + Age x helpers + Age x tarsus | 12 | 480.31 | 3.05 | 0.01 |
| Helpers + Age + Tarsus + TQ + Age x helpers + Age x tarsus | 11 | 480.32 | 3.05 | 0.01 |
| Sex + Age + Body mass + Tarsus + Age x sex + Age x tarsus | 11 | 480.33 | 3.06 | 0.01 |
| Age + Non helpers + Tarsus + Age x non helpers + Age x tarsus | 10 | 480.33 | 3.07 | 0.01 |
| Sex + Age + Body mass + TQ + Age x mass | 10 | 480.33 | 3.07 | 0.01 |
| Sex + Age + Body mass + Non helpers + TQ + Age x mass | 11 | 480.34 | 3.08 | 0.01 |
| Helpers + Age + Non helpers + Tarsus + Age x tarsus | 10 | 480.39 | 3.12 | 0.01 |
| Sex + Age + Tarsus + TQ + Age x sex + Age x tarsus + Age x TQ | 12 | 480.43 | 3.16 | 0.01 |
| Helpers + Sex + Age + Tarsus + TQ + Age x sex + Age x tarsus | 12 | 480.45 | 3.19 | 0.01 |
| Sex + Age + Body mass + Non helpers + TQ + Age x sex + Age x mass | 12 | 480.48 | 3.22 | 0.00 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x sex + Age x non helpers + Age x tarsus | 13 | 480.51 | 3.25 | 0.00 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x sex + Age x tarsus + Age x TQ | 13 | 480.54 | 3.28 | 0.00 |
| Age + Body mass + Tarsus + TQ + Age x mass + Age x tarsus | 11 | 480.54 | 3.28 | 0.00 |
| Helpers + Sex + Age + Tarsus + Age x tarsus | 10 | 480.55 | 3.29 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex + Age x mass | 13 | 480.56 | 3.29 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + TQ + Age x sex + Age x tarsus | 13 | 480.59 | 3.33 | 0.00 |
| Sex + Age + Non helpers + Tarsus + Age x non helpers + Age x tarsus | 11 | 480.59 | 3.33 | 0.00 |
| Sex + Age + Body mass + TQ + Age x sex | 10 | 480.61 | 3.35 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + Age x tarsus | 11 | 480.69 | 3.43 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + TQ + Age x mass + Age x tarsus | 12 | 480.70 | 3.44 | 0.00 |
| Sex + Age + Body mass + Non helpers + TQ + Age x sex | 11 | 480.71 | 3.45 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x sex + Age x tarsus | 12 | 480.74 | 3.48 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + TQ + Age x helpers + Age x tarsus | 13 | 480.83 | 3.56 | 0.00 |
| Helpers + Sex + Age + Tarsus + TQ + Age x helpers + Age x tarsus | 12 | 480.85 | 3.59 | 0.00 |
| Sex + Age + Body mass + Tarsus + TQ + Age x mass + Age x tarsus | 12 | 480.92 | 3.66 | 0.00 |
| Sex + Age + Non helpers + Tarsus + TQ | 10 | 480.93 | 3.67 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + TQ + Age x sex | 12 | 480.95 | 3.69 | 0.00 |
| Sex + Age + Body mass + Tarsus + TQ + Age x sex + Age x TQ | 12 | 480.98 | 3.72 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x mass + Age x tarsus | 13 | 481.09 | 3.83 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex + Age x non helpers | 13 | 481.12 | 3.86 | 0.00 |
| Age + Body mass + Tarsus + TQ + Age x tarsus + Age x TQ | 11 | 481.13 | 3.87 | 0.00 |
| Helpers + Age + Body mass + Tarsus + TQ + Age x tarsus | 11 | 481.14 | 3.88 | 0.00 |
| Sex + Age + Body mass + Tarsus + TQ + Age x mass | 11 | 481.17 | 3.91 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex | 13 | 481.17 | 3.91 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x mass | 12 | 481.18 | 3.92 | 0.00 |
| Sex + Age + Body mass + Tarsus + Age x sex + Age x mass | 11 | 481.18 | 3.92 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex + Age x TQ | 13 | 481.20 | 3.94 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + TQ + Age x tarsus + Age x TQ | 12 | 481.21 | 3.95 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus | 12 | 481.22 | 3.96 | 0.00 |
| Helpers + Age + Tarsus + Age x helpers + Age x tarsus | 10 | 481.24 | 3.98 | 0.00 |
| Sex + Age + Body mass + Age x sex + Age x mass | 10 | 481.24 | 3.98 | 0.00 |
| Sex + Age + Body mass + Tarsus + TQ + Age x tarsus + Age x TQ | 12 | 481.24 | 3.98 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + TQ + Age x tarsus | 12 | 481.24 | 3.98 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + TQ + Age x tarsus | 12 | 481.25 | 3.98 | 0.00 |
| Age + Body mass + Age x mass | 8 | 481.25 | 3.98 | 0.00 |
| Age + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus + Age x TQ | 12 | 481.25 | 3.99 | 0.00 |
| Sex + Age + Body mass + Age x mass | 9 | 481.28 | 4.02 | 0.00 |
| Helpers + Age + Tarsus + TQ + Age x tarsus + Age x TQ | 11 | 481.29 | 4.03 | 0.00 |
| Helpers + Age + Non helpers + Tarsus + TQ + Age x tarsus + Age x TQ | 12 | 481.30 | 4.04 | 0.00 |
| Helpers + Age + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus | 12 | 481.31 | 4.05 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus | 13 | 481.34 | 4.08 | 0.00 |
| Sex + Age + Body mass + Age x sex | 9 | 481.34 | 4.08 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x tarsus + Age x TQ | 13 | 481.34 | 4.08 | 0.00 |
| Age + Body mass + Non helpers + Age x mass | 9 | 481.35 | 4.09 | 0.00 |
| Helpers + Age + Non helpers + Tarsus + Age x helpers + Age x tarsus | 11 | 481.36 | 4.10 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x tarsus | 13 | 481.38 | 4.12 | 0.00 |
| Sex + Age + Non helpers + Tarsus + Age x sex + Age x non helpers | 11 | 481.39 | 4.13 | 0.00 |
| Sex + Age + Tarsus + TQ | 9 | 481.41 | 4.15 | 0.00 |
| Sex + Age + Body mass + Non helpers + Age x mass | 10 | 481.43 | 4.17 | 0.00 |
| Helpers + Sex + Age + Tarsus + Age x sex | 10 | 481.43 | 4.17 | 0.00 |
| Age + Body mass + Tarsus + Age x mass + Age x tarsus | 10 | 481.45 | 4.19 | 0.00 |
| Helpers + Sex + Age + Tarsus + Age x sex + Age x tarsus | 11 | 481.50 | 4.24 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + Age x sex | 11 | 481.53 | 4.27 | 0.00 |
| Sex + Age + Body mass + Tarsus + TQ + Age x sex + Age x mass + Age x tarsus | 13 | 481.57 | 4.31 | 0.00 |
| Sex + Age + Body mass + Non helpers + Age x sex | 10 | 481.57 | 4.31 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x sex + Age x mass | 12 | 481.57 | 4.31 | 0.00 |
| Sex + Age + Body mass + Non helpers + Age x sex + Age x mass | 11 | 481.60 | 4.34 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + TQ + Age x helpers + Age x sex | 13 | 481.60 | 4.34 | 0.00 |
| Sex + Age + Body mass + Tarsus + Age x mass + Age x tarsus | 11 | 481.60 | 4.34 | 0.00 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus + Age x TQ | 13 | 481.61 | 4.35 | 0.00 |
| Helpers + Sex + Age + Tarsus + TQ + Age x helpers + Age x sex | 12 | 481.64 | 4.38 | 0.00 |
| Sex + Age + Non helpers + Tarsus + Age x sex + Age x non helpers + Age x tarsus | 12 | 481.65 | 4.39 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + TQ + Age x sex + Age x tarsus | 13 | 481.66 | 4.40 | 0.00 |
| Sex + Age + Body mass + Tarsus + TQ + Age x sex + Age x tarsus + Age x TQ | 13 | 481.67 | 4.41 | 0.00 |
| Helpers + Sex + Age + Tarsus + Age x helpers + Age x tarsus | 11 | 481.68 | 4.42 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus | 13 | 481.69 | 4.43 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + TQ + Age x tarsus + Age x TQ | 13 | 481.70 | 4.44 | 0.00 |
| Helpers + Sex + Age + Tarsus + TQ + Age x tarsus + Age x TQ | 12 | 481.70 | 4.44 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + Age x sex | 11 | 481.71 | 4.45 | 0.00 |
| Helpers + Sex + Age + Tarsus + TQ + Age x helpers + Age x sex + Age x tarsus | 13 | 481.75 | 4.48 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + Age x sex + Age x tarsus | 12 | 481.75 | 4.49 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + Age x mass + Age x tarsus | 11 | 481.75 | 4.49 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + Age x helpers + Age x tarsus | 12 | 481.78 | 4.52 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + Age x tarsus | 11 | 481.80 | 4.54 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + TQ + Age x helpers + Age x sex + Age x tarsus | 14 | 481.85 | 4.59 | 0.00 |
| Helpers + Age + Body mass + Tarsus + Age x tarsus | 10 | 481.88 | 4.62 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex + Age x mass + Age x tarsus | 14 | 481.88 | 4.62 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + TQ + Age x mass | 11 | 481.90 | 4.64 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x mass + Age x tarsus | 12 | 481.91 | 4.65 | 0.00 |
| Sex + Age + Non helpers + Tarsus | 9 | 481.92 | 4.66 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex + Age x non helpers + Age x tarsus | 14 | 481.93 | 4.67 | 0.00 |
| Age + Body mass + Tarsus + TQ + Age x mass | 10 | 481.94 | 4.68 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex + Age x tarsus + Age x TQ | 14 | 481.95 | 4.69 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex + Age x tarsus | 14 | 481.96 | 4.70 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x sex + Age x non helpers | 12 | 481.99 | 4.73 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x non helpers + Age x tarsus | 12 | 482.03 | 4.77 | 0.00 |
| Age + Body mass + Non helpers + TQ + Age x mass + Age x TQ | 11 | 482.03 | 4.77 | 0.00 |
| Helpers + Age + Body mass + Non helpers + TQ + Age x mass | 11 | 482.03 | 4.77 | 0.00 |
| Age + Body mass + Non helpers + TQ + Age x mass + Age x non helpers | 11 | 482.04 | 4.78 | 0.00 |
| Sex + Age + Body mass + Tarsus + Age x mass | 10 | 482.04 | 4.78 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + Age x sex | 12 | 482.05 | 4.79 | 0.00 |
| Helpers + Age + Body mass + TQ + Age x mass | 10 | 482.06 | 4.80 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + Age x tarsus | 12 | 482.07 | 4.81 | 0.00 |
| Age + Body mass + TQ + Age x mass + Age x TQ | 10 | 482.07 | 4.81 | 0.00 |
| Helpers + Age + Body mass + Tarsus + TQ + Age x helpers + Age x tarsus | 12 | 482.10 | 4.84 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + Age x non helpers + Age x tarsus | 11 | 482.11 | 4.85 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + Age x tarsus | 11 | 482.13 | 4.87 | 0.00 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x sex + Age x non helpers + Age x TQ | 13 | 482.16 | 4.90 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + TQ + Age x sex + Age x non helpers | 13 | 482.17 | 4.91 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + TQ + Age x helpers + Age x tarsus | 13 | 482.18 | 4.92 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x mass | 11 | 482.18 | 4.92 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + TQ + Age x helpers + Age x sex | 13 | 482.25 | 4.99 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ | 11 | 482.27 | 5.01 | 0.00 |
| Helpers + Sex + Age + Body mass + TQ + Age x sex + Age x mass | 12 | 482.27 | 5.01 | 0.00 |
| Sex + Age + Tarsus | 8 | 482.28 | 5.02 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + TQ + Age x sex + Age x TQ | 13 | 482.28 | 5.02 | 0.00 |
| Helpers + Sex + Age + Tarsus + TQ + Age x sex + Age x TQ | 12 | 482.28 | 5.02 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + TQ + Age x helpers + Age x tarsus | 13 | 482.30 | 5.04 | 0.00 |
| Sex + Age + Body mass + TQ + Age x sex + Age x mass + Age x TQ | 12 | 482.31 | 5.05 | 0.00 |
| Helpers + Age + Non helpers + Tarsus + TQ + Age x helpers + Age x non helpers + Age x tarsus | 13 | 482.31 | 5.05 | 0.00 |
| Helpers + Age + Non helpers + Tarsus + TQ + Age x helpers + Age x tarsus + Age x TQ | 13 | 482.31 | 5.05 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + TQ + Age x sex + Age x mass | 13 | 482.33 | 5.07 | 0.00 |
| Sex + Age + Body mass + Tarsus + Age x sex + Age x mass + Age x tarsus | 12 | 482.33 | 5.07 | 0.00 |
| Helpers + Age + Tarsus + TQ + Age x helpers + Age x tarsus + Age x TQ | 12 | 482.34 | 5.08 | 0.00 |
| Sex + Age + Body mass + Tarsus + TQ + Age x sex + Age x mass + Age x TQ | 13 | 482.35 | 5.09 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + Age x sex + Age x tarsus | 12 | 482.36 | 5.10 | 0.00 |
| Helpers + Sex + Age + Body mass + TQ + Age x mass | 11 | 482.36 | 5.10 | 0.00 |
| Helpers + Age + Non helpers + Tarsus + Age x non helpers + Age x tarsus | 11 | 482.36 | 5.10 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + TQ + Age x mass | 12 | 482.38 | 5.12 | 0.00 |
| Sex + Age + Body mass + TQ + Age x mass + Age x TQ | 11 | 482.39 | 5.13 | 0.00 |
| Sex + Age + Body mass + Non helpers + TQ + Age x mass + Age x non helpers | 12 | 482.39 | 5.13 | 0.00 |
| Sex + Age + Body mass + Non helpers + TQ + Age x mass + Age x TQ | 12 | 482.40 | 5.14 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x helpers + Age x tarsus | 14 | 482.41 | 5.15 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x helpers + Age x sex | 14 | 482.44 | 5.18 | 0.00 |
| Helpers + Sex + Age + Tarsus + TQ + Age x sex + Age x tarsus + Age x TQ | 13 | 482.48 | 5.22 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + TQ + Age x sex + Age x mass | 13 | 482.52 | 5.25 | 0.00 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x sex + Age x non helpers + Age x tarsus + Age x TQ | 14 | 482.52 | 5.26 | 0.00 |
| Sex + Age + Body mass + Non helpers + TQ + Age x sex + Age x mass + Age x non helpers | 13 | 482.53 | 5.27 | 0.00 |
| Sex + Age + Body mass + Non helpers + TQ + Age x sex + Age x mass + Age x TQ | 13 | 482.55 | 5.28 | 0.00 |
| Age + Body mass + Tarsus + TQ + Age x mass + Age x tarsus + Age x TQ | 12 | 482.55 | 5.29 | 0.00 |
| Sex + Age + Body mass + Tarsus + TQ | 10 | 482.56 | 5.30 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + TQ + Age x sex + Age x non helpers + Age x tarsus | 14 | 482.57 | 5.31 | 0.00 |
| Helpers + Age + Body mass + Tarsus + TQ + Age x mass + Age x tarsus | 12 | 482.58 | 5.32 | 0.00 |
| Helpers + Sex + Age + Body mass + TQ + Age x sex | 11 | 482.59 | 5.33 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex + Age x mass + Age x non helpers | 14 | 482.59 | 5.33 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + TQ + Age x sex + Age x tarsus + Age x TQ | 14 | 482.60 | 5.34 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex + Age x mass | 14 | 482.62 | 5.36 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex + Age x mass + Age x TQ | 14 | 482.62 | 5.36 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + Age x non helpers + Age x tarsus | 12 | 482.64 | 5.38 | 0.00 |
| Sex + Age + Body mass + TQ + Age x sex + Age x TQ | 11 | 482.65 | 5.39 | 0.00 |
| Sex + Age + Body mass + Non helpers + TQ + Age x sex + Age x non helpers | 12 | 482.67 | 5.41 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + TQ + Age x mass + Age x tarsus + Age x TQ | 13 | 482.69 | 5.43 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + TQ + Age x sex | 12 | 482.70 | 5.44 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + TQ + Age x mass + Age x non helpers + Age x tarsus | 13 | 482.75 | 5.49 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x sex + Age x non helpers + Age x tarsus | 13 | 482.75 | 5.49 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + TQ + Age x mass + Age x tarsus | 13 | 482.75 | 5.49 | 0.00 |
| Sex + Age + Body mass + Non helpers + TQ + Age x sex + Age x TQ | 12 | 482.77 | 5.51 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x sex + Age x mass + Age x tarsus | 13 | 482.77 | 5.51 | 0.00 |
| Helpers + Sex + Age + Tarsus + Age x helpers + Age x sex + Age x tarsus | 12 | 482.77 | 5.51 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + Age x sex + Age x tarsus | 13 | 482.78 | 5.52 | 0.00 |
| Helpers + Age + Body mass + Tarsus + Age x helpers + Age x tarsus | 11 | 482.79 | 5.53 | 0.00 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x non helpers | 11 | 482.80 | 5.54 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + TQ + Age x helpers + Age x non helpers + Age x tarsus | 14 | 482.81 | 5.55 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + Age x helpers + Age x tarsus | 12 | 482.81 | 5.55 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + TQ + Age x helpers + Age x tarsus + Age x TQ | 14 | 482.83 | 5.57 | 0.00 |
| Helpers + Sex + Age + Tarsus + Age x helpers + Age x sex | 11 | 482.83 | 5.57 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + TQ + Age x helpers + Age x sex + Age x tarsus | 14 | 482.87 | 5.61 | 0.00 |
| Helpers + Sex + Age + Tarsus + TQ + Age x helpers + Age x tarsus + Age x TQ | 13 | 482.87 | 5.61 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + Age x helpers + Age x sex | 12 | 482.89 | 5.63 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus | 10 | 482.91 | 5.65 | 0.00 |
| Sex + Age + Body mass + Tarsus + TQ + Age x mass + Age x tarsus + Age x TQ | 13 | 482.94 | 5.68 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + TQ + Age x mass + Age x tarsus | 13 | 482.96 | 5.70 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + Age x helpers + Age x sex | 12 | 482.97 | 5.71 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + TQ | 11 | 482.98 | 5.72 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + Age x helpers + Age x sex + Age x tarsus | 13 | 482.98 | 5.72 | 0.00 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x TQ | 11 | 482.99 | 5.73 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + TQ + Age x sex + Age x TQ | 13 | 483.02 | 5.76 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + Age x helpers + Age x tarsus | 12 | 483.02 | 5.76 | 0.00 |
| Sex + Age + Body mass + Tarsus | 9 | 483.05 | 5.79 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + Age x helpers + Age x tarsus | 13 | 483.06 | 5.80 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x mass + Age x tarsus + Age x TQ | 14 | 483.09 | 5.83 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x mass + Age x non helpers + Age x tarsus | 14 | 483.12 | 5.86 | 0.00 |
| Helpers + Age + Body mass + Non helpers + TQ + Age x helpers + Age x mass | 12 | 483.13 | 5.87 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x mass + Age x tarsus | 14 | 483.14 | 5.88 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x helpers + Age x sex + Age x tarsus | 15 | 483.14 | 5.88 | 0.00 |
| Helpers + Age + Body mass + Tarsus + TQ + Age x tarsus + Age x TQ | 12 | 483.16 | 5.89 | 0.00 |
| Age + Body mass + Tarsus + Age x mass | 9 | 483.17 | 5.91 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex + Age x non helpers | 14 | 483.17 | 5.91 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex + Age x non helpers + Age x TQ | 14 | 483.19 | 5.93 | 0.00 |
| Helpers + Age + Body mass + TQ + Age x helpers + Age x mass | 11 | 483.20 | 5.93 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus + Age x TQ | 13 | 483.21 | 5.95 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + TQ + Age x mass | 12 | 483.22 | 5.96 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x mass + Age x non helpers | 13 | 483.22 | 5.96 | 0.00 |
| Sex + Age + Body mass + Tarsus + TQ + Age x mass + Age x TQ | 12 | 483.22 | 5.96 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + Age x sex + Age x mass | 12 | 483.23 | 5.97 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x mass + Age x TQ | 13 | 483.23 | 5.97 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x mass | 13 | 483.24 | 5.98 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + TQ + Age x tarsus + Age x TQ | 13 | 483.24 | 5.98 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x sex + Age x TQ | 14 | 483.25 | 5.99 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus | 13 | 483.26 | 6.00 | 0.00 |
| Helpers + Sex + Age + Body mass + Age x sex + Age x mass | 11 | 483.26 | 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 |
| Age | 4 | 198.90 | 0.00 | 0.03 |
| Sex + Age | 5 | 198.96 | 0.06 | 0.02 |
| Age + Tarsus + Age x tarsus | 6 | 199.18 | 0.28 | 0.02 |
| Age + Non helpers | 5 | 199.54 | 0.64 | 0.02 |
| Sex + Age + Body mass | 6 | 199.58 | 0.68 | 0.02 |
| Age + Non helpers + Age x non helpers | 6 | 199.62 | 0.72 | 0.02 |
| Age + Non helpers + Tarsus + Age x non helpers + Age x tarsus | 8 | 199.62 | 0.72 | 0.02 |
| Sex + Age + Non helpers | 6 | 199.77 | 0.88 | 0.02 |
| Age + Non helpers + Tarsus + Age x tarsus | 7 | 199.95 | 1.05 | 0.01 |
| Sex + Age + Non helpers + Age x non helpers | 7 | 200.35 | 1.45 | 0.01 |
| Sex + Age + Body mass + Non helpers | 7 | 200.40 | 1.50 | 0.01 |
| Age + Tarsus | 5 | 200.50 | 1.60 | 0.01 |
| Sex + Age + Tarsus + Age x tarsus | 7 | 200.57 | 1.67 | 0.01 |
| Age + Body mass + Tarsus + Age x tarsus | 7 | 200.68 | 1.78 | 0.01 |
| Helpers + Age + Age x helpers | 6 | 200.80 | 1.90 | 0.01 |
| Sex + Age + Age x sex | 6 | 200.84 | 1.94 | 0.01 |
| Age + Body mass | 5 | 200.89 | 1.99 | 0.01 |
| Age + TQ | 5 | 200.92 | 2.02 | 0.01 |
| Helpers + Age | 5 | 200.96 | 2.06 | 0.01 |
| Helpers + Sex + Age | 6 | 201.03 | 2.14 | 0.01 |
| Sex + Age + TQ | 6 | 201.04 | 2.15 | 0.01 |
| Sex + Age + Tarsus | 6 | 201.06 | 2.17 | 0.01 |
| Helpers + Age + Non helpers + Age x helpers | 7 | 201.10 | 2.21 | 0.01 |
| Helpers + Sex + Age + Age x helpers | 7 | 201.11 | 2.22 | 0.01 |
| Helpers + Sex + Age + Body mass + Age x helpers | 8 | 201.21 | 2.31 | 0.01 |
| Helpers + Age + Non helpers + Age x helpers + Age x non helpers | 8 | 201.21 | 2.31 | 0.01 |
| Age + Tarsus + TQ + Age x tarsus | 7 | 201.22 | 2.32 | 0.01 |
| Helpers + Age + Tarsus + Age x helpers + Age x tarsus | 8 | 201.28 | 2.39 | 0.01 |
| Age + Non helpers + Tarsus | 6 | 201.29 | 2.39 | 0.01 |
| Helpers + Age + Tarsus + Age x tarsus | 7 | 201.31 | 2.41 | 0.01 |
| Sex + Age + Non helpers + Tarsus + Age x tarsus | 8 | 201.35 | 2.45 | 0.01 |
| Age + Non helpers + Tarsus + Age x non helpers | 7 | 201.43 | 2.53 | 0.01 |
| Helpers + Age + Non helpers + Tarsus + Age x helpers + Age x non helpers + Age x tarsus | 10 | 201.45 | 2.55 | 0.01 |
| Sex + Age + Non helpers + Tarsus + Age x non helpers + Age x tarsus | 9 | 201.47 | 2.57 | 0.01 |
| Sex + Age + Non helpers + Age x sex | 7 | 201.49 | 2.59 | 0.01 |
| Sex + Age + Body mass + Age x mass | 7 | 201.52 | 2.62 | 0.01 |
| Age + Body mass + Non helpers + Tarsus + Age x tarsus | 8 | 201.52 | 2.63 | 0.01 |
| Sex + Age + Body mass + Non helpers + Age x non helpers | 8 | 201.53 | 2.63 | 0.01 |
| Age + Body mass + Non helpers | 6 | 201.53 | 2.63 | 0.01 |
| Age + Body mass + Non helpers + Tarsus + Age x non helpers + Age x tarsus | 9 | 201.56 | 2.66 | 0.01 |
| Helpers + Sex + Age + Body mass | 7 | 201.58 | 2.68 | 0.01 |
| Age + Body mass + Tarsus | 6 | 201.59 | 2.69 | 0.01 |
| Helpers + Age + Non helpers | 6 | 201.61 | 2.71 | 0.01 |
| Helpers + Sex + Age + Non helpers + Age x helpers | 8 | 201.62 | 2.73 | 0.01 |
| Sex + Age + Body mass + Tarsus | 7 | 201.63 | 2.74 | 0.01 |
| Sex + Age + Body mass + Age x sex | 7 | 201.64 | 2.74 | 0.01 |
| Age + Non helpers + TQ | 6 | 201.65 | 2.75 | 0.01 |
| Helpers + Sex + Age + Body mass + Non helpers + Age x helpers | 9 | 201.67 | 2.77 | 0.01 |
| Sex + Age + Body mass + Tarsus + Age x tarsus | 8 | 201.72 | 2.82 | 0.01 |
| Sex + Age + Body mass + TQ | 7 | 201.73 | 2.83 | 0.01 |
| Age + Body mass + Non helpers + Age x non helpers | 7 | 201.74 | 2.84 | 0.01 |
| Helpers + Age + Non helpers + Tarsus + Age x helpers + Age x tarsus | 9 | 201.74 | 2.84 | 0.01 |
| Helpers + Age + Non helpers + Age x non helpers | 7 | 201.77 | 2.87 | 0.01 |
| Age + Non helpers + TQ + Age x non helpers | 7 | 201.78 | 2.88 | 0.01 |
| Age + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus | 9 | 201.81 | 2.91 | 0.01 |
| Helpers + Age + Non helpers + Tarsus + Age x non helpers + Age x tarsus | 9 | 201.84 | 2.94 | 0.01 |
| Helpers + Sex + Age + Non helpers | 7 | 201.86 | 2.96 | 0.01 |
| Sex + Age + Non helpers + Tarsus | 7 | 201.86 | 2.97 | 0.01 |
| Sex + Age + Non helpers + Age x sex + Age x non helpers | 8 | 201.89 | 2.99 | 0.01 |
| Sex + Age + Non helpers + TQ | 7 | 201.93 | 3.04 | 0.01 |
| Age + Non helpers + Tarsus + TQ + Age x tarsus | 8 | 202.09 | 3.19 | 0.01 |
| Helpers + Age + Non helpers + Tarsus + Age x tarsus | 8 | 202.09 | 3.19 | 0.01 |
| Helpers + Sex + Age + Non helpers + Age x helpers + Age x non helpers | 9 | 202.21 | 3.31 | 0.00 |
| Helpers + Age + Body mass + Tarsus + Age x helpers + Age x tarsus | 9 | 202.22 | 3.32 | 0.00 |
| Sex + Age + Body mass + Non helpers + Age x sex | 8 | 202.35 | 3.45 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers | 8 | 202.41 | 3.51 | 0.00 |
| Helpers + Age + Tarsus + Age x helpers | 7 | 202.41 | 3.51 | 0.00 |
| Sex + Age + Tarsus + Age x sex + Age x tarsus | 8 | 202.45 | 3.55 | 0.00 |
| Age + Body mass + Non helpers + Tarsus | 7 | 202.47 | 3.57 | 0.00 |
| Sex + Age + Body mass + Non helpers + Age x mass | 8 | 202.51 | 3.61 | 0.00 |
| Helpers + Sex + Age + Non helpers + Age x non helpers | 8 | 202.51 | 3.62 | 0.00 |
| Sex + Age + Non helpers + Tarsus + Age x non helpers | 8 | 202.52 | 3.62 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus | 8 | 202.54 | 3.64 | 0.00 |
| Sex + Age + Non helpers + TQ + Age x non helpers | 8 | 202.54 | 3.65 | 0.00 |
| Age + Tarsus + TQ | 6 | 202.57 | 3.67 | 0.00 |
| Helpers + Age + Tarsus | 6 | 202.57 | 3.68 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x tarsus | 9 | 202.60 | 3.70 | 0.00 |
| Sex + Age + Body mass + Non helpers + TQ | 8 | 202.61 | 3.71 | 0.00 |
| Helpers + Age + Body mass + Age x helpers | 7 | 202.63 | 3.73 | 0.00 |
| Sex + Age + Tarsus + TQ + Age x tarsus | 8 | 202.65 | 3.75 | 0.00 |
| Helpers + Sex + Age + Tarsus + Age x tarsus | 8 | 202.72 | 3.82 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + Age x helpers + Age x tarsus | 10 | 202.74 | 3.84 | 0.00 |
| Helpers + Age + Body mass + Tarsus + Age x tarsus | 8 | 202.76 | 3.87 | 0.00 |
| Helpers + Age + Body mass + Tarsus + Age x helpers | 8 | 202.79 | 3.89 | 0.00 |
| Age + Body mass + Tarsus + Age x mass + Age x tarsus | 8 | 202.79 | 3.90 | 0.00 |
| Age + Body mass + Tarsus + TQ + Age x tarsus | 8 | 202.80 | 3.90 | 0.00 |
| Age + Body mass + Age x mass | 6 | 202.84 | 3.94 | 0.00 |
| Helpers + Age + Non helpers + Tarsus + Age x helpers | 8 | 202.89 | 4.00 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Age x helpers | 8 | 202.90 | 4.00 | 0.00 |
| Helpers + Sex + Age + Tarsus + Age x helpers + Age x tarsus | 9 | 202.91 | 4.01 | 0.00 |
| Helpers + Age + TQ + Age x helpers | 7 | 202.92 | 4.02 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Age x helpers + Age x non helpers | 10 | 202.93 | 4.03 | 0.00 |
| Age + Body mass + TQ | 6 | 202.95 | 4.05 | 0.00 |
| Helpers + Age + Body mass | 6 | 202.95 | 4.06 | 0.00 |
| Helpers + Sex + Age + Age x sex | 7 | 202.96 | 4.06 | 0.00 |
| Sex + Age + TQ + Age x sex | 7 | 202.96 | 4.06 | 0.00 |
| Sex + Age + Tarsus + Age x sex | 7 | 202.99 | 4.09 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + Age x helpers + Age x non helpers + Age x tarsus | 11 | 202.99 | 4.09 | 0.00 |
| Helpers + Age + TQ | 6 | 203.00 | 4.10 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + Age x non helpers | 8 | 203.00 | 4.11 | 0.00 |
| Age + TQ + Age x TQ | 6 | 203.05 | 4.15 | 0.00 |
| Helpers + Sex + Age + Age x helpers + Age x sex | 8 | 203.07 | 4.17 | 0.00 |
| Helpers + Age + Non helpers + Tarsus + Age x helpers + Age x non helpers | 9 | 203.07 | 4.17 | 0.00 |
| Age + Body mass + Tarsus + Age x mass | 7 | 203.09 | 4.19 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + Age x helpers | 9 | 203.10 | 4.20 | 0.00 |
| Helpers + Sex + Age + TQ | 7 | 203.14 | 4.24 | 0.00 |
| Helpers + Sex + Age + Tarsus | 7 | 203.17 | 4.27 | 0.00 |
| Sex + Age + Tarsus + TQ | 7 | 203.17 | 4.27 | 0.00 |
| Sex + Age + TQ + Age x TQ | 7 | 203.21 | 4.31 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Age x helpers + Age x non helpers | 9 | 203.22 | 4.32 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x non helpers + Age x tarsus | 10 | 203.22 | 4.32 | 0.00 |
| Helpers + Sex + Age + Body mass + Age x helpers + Age x mass | 9 | 203.28 | 4.38 | 0.00 |
| Helpers + Sex + Age + TQ + Age x helpers | 8 | 203.29 | 4.39 | 0.00 |
| Helpers + Age + Non helpers + TQ + Age x helpers | 8 | 203.31 | 4.41 | 0.00 |
| Helpers + Sex + Age + Tarsus + Age x helpers | 8 | 203.31 | 4.41 | 0.00 |
| Sex + Age + Body mass + Non helpers + Age x sex + Age x non helpers | 9 | 203.33 | 4.43 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + Age x helpers | 9 | 203.33 | 4.43 | 0.00 |
| Helpers + Sex + Age + Body mass + Age x helpers + Age x sex | 9 | 203.36 | 4.46 | 0.00 |
| Helpers + Age + Tarsus + TQ + Age x tarsus | 8 | 203.36 | 4.47 | 0.00 |
| Helpers + Age + Non helpers + Tarsus | 7 | 203.38 | 4.48 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + Age x mass + Age x tarsus | 9 | 203.39 | 4.49 | 0.00 |
| Helpers + Sex + Age + Non helpers + Age x helpers + Age x sex | 9 | 203.39 | 4.49 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + Age x helpers + Age x tarsus | 10 | 203.40 | 4.50 | 0.00 |
| Age + Tarsus + TQ + Age x tarsus + Age x TQ | 8 | 203.40 | 4.51 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + Age x helpers + Age x tarsus | 10 | 203.43 | 4.53 | 0.00 |
| Helpers + Age + Tarsus + TQ + Age x helpers + Age x tarsus | 9 | 203.43 | 4.54 | 0.00 |
| Sex + Age + Non helpers + Tarsus + Age x sex + Age x tarsus | 9 | 203.44 | 4.54 | 0.00 |
| Sex + Age + Body mass + Tarsus + Age x mass | 8 | 203.44 | 4.54 | 0.00 |
| Helpers + Sex + Age + Body mass + TQ + Age x helpers | 9 | 203.44 | 4.54 | 0.00 |
| Age + Non helpers + Tarsus + TQ | 7 | 203.44 | 4.55 | 0.00 |
| Helpers + Age + Non helpers + TQ + Age x helpers + Age x non helpers | 9 | 203.45 | 4.55 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + Age x mass + Age x non helpers + Age x tarsus | 10 | 203.47 | 4.57 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + Age x helpers + Age x non helpers + Age x tarsus | 11 | 203.49 | 4.59 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + Age x tarsus | 9 | 203.52 | 4.62 | 0.00 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x tarsus | 9 | 203.53 | 4.63 | 0.00 |
| Helpers + Sex + Age + Body mass + Age x mass | 8 | 203.59 | 4.69 | 0.00 |
| Sex + Age + Body mass + Tarsus + Age x sex + Age x tarsus | 9 | 203.59 | 4.69 | 0.00 |
| Sex + Age + Body mass + Non helpers + Age x mass + Age x non helpers | 9 | 203.59 | 4.69 | 0.00 |
| Helpers + Age + Body mass + Tarsus | 7 | 203.60 | 4.70 | 0.00 |
| Helpers + Age + Body mass + Non helpers | 7 | 203.60 | 4.70 | 0.00 |
| Helpers + Age + Non helpers + Tarsus + Age x non helpers | 8 | 203.60 | 4.71 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + Age x tarsus | 9 | 203.63 | 4.73 | 0.00 |
| Age + Non helpers + Tarsus + TQ + Age x non helpers | 8 | 203.63 | 4.73 | 0.00 |
| Helpers + Sex + Age + Non helpers + Age x sex | 8 | 203.63 | 4.73 | 0.00 |
| Sex + Age + Non helpers + Tarsus + Age x sex + Age x non helpers + Age x tarsus | 10 | 203.63 | 4.73 | 0.00 |
| Sex + Age + Non helpers + Tarsus + Age x sex | 8 | 203.63 | 4.73 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus | 8 | 203.64 | 4.74 | 0.00 |
| Age + Body mass + Non helpers + Age x mass | 7 | 203.64 | 4.74 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Age x non helpers | 9 | 203.64 | 4.75 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + Age x helpers | 10 | 203.67 | 4.77 | 0.00 |
| Age + Body mass + Non helpers + TQ | 7 | 203.68 | 4.78 | 0.00 |
| Sex + Age + Body mass + TQ + Age x mass | 8 | 203.68 | 4.78 | 0.00 |
| Sex + Age + Non helpers + TQ + Age x sex | 8 | 203.68 | 4.79 | 0.00 |
| Helpers + Sex + Age + Body mass + Age x sex | 8 | 203.69 | 4.79 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x non helpers | 9 | 203.69 | 4.79 | 0.00 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus | 10 | 203.69 | 4.79 | 0.00 |
| Sex + Age + Body mass + Age x sex + Age x mass | 8 | 203.71 | 4.81 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Age x helpers + Age x sex | 10 | 203.71 | 4.82 | 0.00 |
| Sex + Age + Body mass + Tarsus + Age x sex | 8 | 203.71 | 4.82 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + Age x non helpers + Age x tarsus | 10 | 203.72 | 4.82 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + TQ + Age x tarsus | 9 | 203.73 | 4.83 | 0.00 |
| Helpers + Age + Non helpers + Tarsus + TQ + Age x helpers + Age x non helpers + Age x tarsus | 11 | 203.73 | 4.83 | 0.00 |
| Age + Body mass + Tarsus + TQ | 7 | 203.74 | 4.84 | 0.00 |
| Helpers + Age + Non helpers + TQ | 7 | 203.74 | 4.84 | 0.00 |
| Helpers + Sex + Age + Body mass + TQ | 8 | 203.75 | 4.85 | 0.00 |
| Sex + Age + Body mass + Non helpers + TQ + Age x non helpers | 9 | 203.76 | 4.86 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + Age x non helpers + Age x tarsus | 10 | 203.78 | 4.88 | 0.00 |
| Helpers + Sex + Age + Non helpers + Age x helpers + Age x sex + Age x non helpers | 10 | 203.78 | 4.88 | 0.00 |
| Age + Body mass + Non helpers + Age x mass + Age x non helpers | 8 | 203.78 | 4.89 | 0.00 |
| Age + Non helpers + TQ + Age x TQ | 7 | 203.79 | 4.89 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus | 10 | 203.79 | 4.90 | 0.00 |
| Helpers + Sex + Age + Body mass + Tarsus + Age x tarsus | 9 | 203.81 | 4.91 | 0.00 |
| Sex + Age + Body mass + TQ + Age x sex | 8 | 203.82 | 4.92 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + Age x helpers | 9 | 203.82 | 4.92 | 0.00 |
| Sex + Age + Body mass + Tarsus + TQ | 8 | 203.82 | 4.92 | 0.00 |
| Age + Non helpers + TQ + Age x non helpers + Age x TQ | 8 | 203.84 | 4.94 | 0.00 |
| Helpers + Sex + Age + Non helpers + TQ + Age x helpers | 9 | 203.86 | 4.96 | 0.00 |
| Sex + Age + Body mass + Tarsus + Age x mass + Age x tarsus | 9 | 203.87 | 4.97 | 0.00 |
| Sex + Age + Body mass + Tarsus + TQ + Age x tarsus | 9 | 203.89 | 4.99 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Age x helpers + Age x mass | 10 | 203.90 | 5.00 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Age x non helpers | 8 | 203.91 | 5.01 | 0.00 |
| Age + Body mass + Non helpers + TQ + Age x non helpers | 8 | 203.93 | 5.03 | 0.00 |
| Age + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus + Age x TQ | 10 | 203.93 | 5.03 | 0.00 |
| Sex + Age + Body mass + TQ + Age x TQ | 8 | 203.94 | 5.04 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + TQ + Age x helpers | 10 | 203.94 | 5.04 | 0.00 |
| Helpers + Age + Non helpers + TQ + Age x non helpers | 8 | 203.95 | 5.05 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus | 8 | 203.98 | 5.09 | 0.00 |
| Helpers + Age + Non helpers + Tarsus + TQ + Age x helpers + Age x tarsus | 10 | 203.99 | 5.09 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + Age x helpers + Age x tarsus | 11 | 203.99 | 5.09 | 0.00 |
| Helpers + Sex + Age + Non helpers + TQ | 8 | 204.04 | 5.15 | 0.00 |
| Sex + Age + Non helpers + Tarsus + TQ | 8 | 204.05 | 5.15 | 0.00 |
| Helpers + Age + Non helpers + Tarsus + TQ + Age x non helpers + Age x tarsus | 10 | 204.06 | 5.16 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + Age x helpers + Age x non helpers | 10 | 204.06 | 5.16 | 0.00 |
| Helpers + Sex + Age + Non helpers + Age x sex + Age x non helpers | 9 | 204.10 | 5.21 | 0.00 |
| Sex + Age + Non helpers + Tarsus + Age x sex + Age x non helpers | 9 | 204.11 | 5.21 | 0.00 |
| Sex + Age + Non helpers + TQ + Age x TQ | 8 | 204.12 | 5.22 | 0.00 |
| Sex + Age + Non helpers + TQ + Age x sex + Age x non helpers | 9 | 204.12 | 5.22 | 0.00 |
| Helpers + Age + Non helpers + Tarsus + TQ + Age x tarsus | 9 | 204.25 | 5.35 | 0.00 |
| Age + Non helpers + Tarsus + TQ + Age x tarsus + Age x TQ | 9 | 204.29 | 5.39 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + Age x mass | 8 | 204.29 | 5.39 | 0.00 |
| Helpers + Age + Body mass + Tarsus + Age x helpers + Age x mass | 9 | 204.39 | 5.49 | 0.00 |
| Helpers + Age + Body mass + Tarsus + Age x helpers + Age x mass + Age x tarsus | 10 | 204.42 | 5.52 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Age x sex | 9 | 204.42 | 5.52 | 0.00 |
| Helpers + Age + Body mass + Tarsus + TQ + Age x helpers + Age x tarsus | 10 | 204.46 | 5.56 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + Age x helpers + Age x non helpers | 10 | 204.46 | 5.57 | 0.00 |
| Helpers + Sex + Age + Non helpers + TQ + Age x helpers + Age x non helpers | 10 | 204.48 | 5.58 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus | 8 | 204.49 | 5.59 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x mass + Age x tarsus | 10 | 204.50 | 5.61 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x sex | 9 | 204.51 | 5.61 | 0.00 |
| Sex + Age + Tarsus + TQ + Age x sex + Age x tarsus | 9 | 204.52 | 5.62 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus | 9 | 204.55 | 5.65 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Age x mass | 9 | 204.58 | 5.68 | 0.00 |
| Helpers + Age + Tarsus + TQ + Age x helpers | 8 | 204.58 | 5.68 | 0.00 |
| Sex + Age + Body mass + Non helpers + Age x sex + Age x mass | 9 | 204.58 | 5.69 | 0.00 |
| Sex + Age + Body mass + Non helpers + TQ + Age x sex | 9 | 204.59 | 5.69 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x mass | 9 | 204.59 | 5.69 | 0.00 |
| Helpers + Sex + Age + Tarsus + Age x sex + Age x tarsus | 9 | 204.61 | 5.72 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + TQ | 9 | 204.64 | 5.74 | 0.00 |
| Helpers + Age + Body mass + Non helpers + Tarsus + Age x helpers + Age x mass + Age x tarsus | 11 | 204.66 | 5.76 | 0.00 |
| Helpers + Age + Tarsus + TQ | 7 | 204.67 | 5.77 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + TQ | 8 | 204.68 | 5.78 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + Age x sex + Age x tarsus | 10 | 204.68 | 5.78 | 0.00 |
| Sex + Age + Non helpers + TQ + Age x non helpers + Age x TQ | 9 | 204.68 | 5.78 | 0.00 |
| Helpers + Age + Body mass + Age x helpers + Age x mass | 8 | 204.69 | 5.79 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + Age x tarsus | 10 | 204.70 | 5.80 | 0.00 |
| Age + Tarsus + TQ + Age x TQ | 7 | 204.71 | 5.81 | 0.00 |
| Helpers + Sex + Age + Non helpers + Tarsus + Age x non helpers | 9 | 204.72 | 5.82 | 0.00 |
| Age + Body mass + Non helpers + Tarsus + Age x mass + Age x non helpers | 9 | 204.73 | 5.83 | 0.00 |
| Helpers + Sex + Age + Non helpers + TQ + Age x non helpers | 9 | 204.74 | 5.84 | 0.00 |
| Sex + Age + Body mass + Non helpers + TQ + Age x mass | 9 | 204.74 | 5.85 | 0.00 |
| Sex + Age + Non helpers + Tarsus + TQ + Age x non helpers | 9 | 204.74 | 5.85 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ | 9 | 204.77 | 5.88 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Tarsus + Age x helpers + Age x non helpers + Age x tarsus | 12 | 204.79 | 5.89 | 0.00 |
| Helpers + Age + Body mass + TQ + Age x helpers | 8 | 204.80 | 5.90 | 0.00 |
| Helpers + Sex + Age + Tarsus + TQ + Age x tarsus | 9 | 204.82 | 5.92 | 0.00 |
| Helpers + Sex + Age + Body mass + Non helpers + Age x helpers + Age x sex + Age x non helpers | 11 | 204.84 | 5.94 | 0.00 |
| Sex + Age + Body mass + Non helpers + Tarsus + TQ + Age x tarsus | 10 | 204.84 | 5.94 | 0.00 |
| Helpers + Sex + Age + Tarsus + Age x helpers + Age x sex + Age x tarsus | 10 | 204.85 | 5.95 | 0.00 |
| Sex + Age + Body mass + Non helpers + TQ + Age x TQ | 9 | 204.85 | 5.95 | 0.00 |
| Sex + Age + Tarsus + TQ + Age x tarsus + Age x TQ | 9 | 204.88 | 5.98 | 0.00 |
| Helpers + Age + Body mass + Tarsus + Age x mass + Age x tarsus | 9 | 204.89 | 5.99 | 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.

