

Supplementary Table 1. Comparison of predictor models to estimate QuIC metrics. Models represent linear regressions of all individual predictors, and are ranked from most parsimonious to least parsimonious by $\Delta AICc$. AIC=Akaike Information Criterion, K=number of model parameters, w =model weight, r^2 =coefficient of variation.

Predictor	K	AICc	$\Delta AICc$	w	r^2	Predictor	K	AICc	$\Delta AICc$	w	r^2
ThT score						ThS score					
Species	1	-13.746	0.000	0.272	0.035	Sex	1	-13.793	0.000	0.551	0.148
Age	1	-13.474	0.272	0.237	0.023	aa96	1	-11.649	2.144	0.189	0.060
aa96	1	-13.259	0.487	0.213	0.014	Age	1	-10.599	3.194	0.112	0.014
Sex	1	-12.985	0.761	0.186	0.001	Species	1	-10.378	3.415	0.100	0.004
State	1	-11.595	2.151	0.093	0.029	State	1	-8.924	4.869	0.048	0.029
ThT amplitude						ThS amplitude					
Sex	1	389.446	0.000	0.349	0.062	Age	1	350.197	0.000	0.691	0.221
aa96	1	390.379	0.933	0.219	0.022	State	1	353.867	3.670	0.110	0.159
Species	1	390.674	1.227	0.189	0.009	Sex	1	354.152	3.955	0.096	0.067
Age	1	390.811	1.365	0.176	0.002	aa96	1	355.156	4.959	0.058	0.024
State	1	392.746	3.300	0.067	0.005	Species	1	355.660	5.463	0.045	0.001
ThT slope						ThS slope					
Age	1	45.003	0.000	0.504	0.194	aa96	1	-33.086	0.000	0.888	0.307
Species	1	47.308	2.305	0.159	0.105	Age	1	-27.483	5.603	0.054	0.107
Sex	1	47.387	2.384	0.153	0.102	State	1	-25.627	7.459	0.021	0.112
State	1	47.955	2.952	0.115	0.158	Sex	1	-25.489	7.597	0.020	0.022
aa96	1	48.993	3.990	0.069	0.034	Species	1	-25.141	7.945	0.017	0.006