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Supplementary Material

Relationship between body weight and elevation in Leadbeater's possum (*Gymnobelideus leadbeateri*)

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Table S1: Predictor variable coefficients for the bodyweight linear regression (lm) global model. The AIC for this model was 983.66 (DF = 11).

Variable	Estimate	Standard error	T value	P-value
Intercept	372.58	260.23	1.14	0.16
Sex (Male)	4.12	1.66	2.48	0.015*
Forest - Riparian	-5.82	6.04	-0.96	0.34
Forest - SubAlpine	-6.23	5.68	-1.10	0.28
Forest - Wet/Damp	-1.52	5.58	-0.27	0.79
Latitude	7.14	6.91	1.03	0.303
DEM	0.025	0.007	3.57	0.0005*
Slope	0.039	0.22	0.18	0.86
Aspect	-0.003	0.008	-0.31	0.76
TWI	0.4	0.63	0.64	0.52

Table S2. Model selection process

Predictor variables	AICc	p-value from ANOVA comparison with previous model
Sex + Forest_type + lat + DEM + Slope + Aspect + TWI	996.23	
Sex + lat + DEM + Slope + Aspect + TWI	991.64	0.53
Sex + lat + DEM + Aspect + TWI	989.52	0.71
Sex + lat + DEM + TWI	987.33	0.85
Sex + lat + DEM	985.35	0.65
Sex + DEM	985.91	0.11
Sex	1014.35	<0.01
DEM	988.93	0.03 (compared to Sex + DEM)