

Appendix 2: Results of model diagnostics testing the good fit of models

Model	Null Model	Full Model	$\Delta$ AIC	Chisq	Pr(>Chisq)
Body Mass ~ Elevation + (1   Sex)	699.74	670.73	29.01	31.00	<0.001
Tarsus length ~ Elevation + (1   Sex)	464.92	451.57	13.35	15.35	<0.001
Beak Shape (BL/BH) ~ Elevation + (1   Sex)	-130.37	-151.61	21.24	23.24	<0.001
Wing length ~ Elevation + (1   Sex)	846.57	789.91	56.66	58.66	<0.001
Tail length ~ Elevation + (1   Sex)	918.83	881.72	37.11	39.10	<0.001
PDL ~ Elevation + (1   Sex)	-1160.9	-1167.8	6.9	8.96	<0.001