

Erratum

Habitat Suitability Modeling for the Newell's Shearwater on Kauai

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In a recent article (Troy et al. 2014), JRT made an error when calculating unconditional standard errors for averaged parameter coefficients of a habitat suitability model for the Newell's shearwater *Puffinus newelli*, resulting in incorrect z-statistic values, P-values (based on two-tailed tests), and 95% confidence intervals for those averaged parameters (Table 4 in Troy et al. [2014]). Corrected values are provided in the new version of Table 4 below. The 95% confidence intervals for averaged model parameter coefficients now slightly overlap zero for all variables except slope of the terrain. The P-values for proportion of native vegetation cover, percent rock fragment composition from 0 to 76.2 cm in soil depth (or from 0 cm to covered bedrock <76.2 cm in depth), and the squared term for percent rock composition all increased from the previous reporting. However, more importantly, all are still significant at the alpha level ($P < 0.15$) that we originally stipulated for model averaging (Troy et al. 2014). In addition, odds ratios and signs of averaged parameter coefficients (Table 4) support our original hypotheses about the potential relationship between these variables and Newell's shearwater distribution (Table 1 in Troy et al. [2014]). Our interpretation of the averaged habitat suitability model and the discussion presented in Troy et al. (2014) remain the same.

Table 4. Detailed output for the top three logistic regression models (from a model selection process based on AIC_c values and Akaike weights) and a Newell's shearwater *Puffinus newelli* habitat suitability model (based on the weighted average for the top three models) for Kauai, Hawaii, developed using GIS-based abiotic and biotic environmental variables, 35 Newell's shearwater activity sites (observed during breeding seasons from 2007 through 2010), and 5,000 computer-generated random sites. The variable 'native veg' = proportion of native vegetation cover and 'rock comp' = percent rock fragment composition from 0 to 76.2 cm in soil depth (or from 0 cm to covered bedrock <76.2 cm in depth). Regression coefficient (β), standard error for β (SE), z-statistic (z), P-values (P), and 95% confidence interval (95% CI) are reported for each model parameter. Odds ratio is reported for each independent variable in each model.

Model	Parameter	Odds ratio	β	SE	z	P	95% CI
Averaged	Intercept	—	-9.2081	4.8007	-1.92	0.055	-18.6175, 0.2012
	Slope	1.114	0.1081	0.0405	2.67	0.008	0.0288, 0.1874
	Native veg	3.369	1.2146	0.7950	1.53	0.126	-0.3435, 2.7727
	Rock comp	1.236	0.2116	0.1402	1.51	0.131	-0.0633, 0.4865
	Rock comp ²	0.998	-0.0018	0.0011	-1.61	0.107	-0.0039, 0.0004
Top-ranked	Intercept	—	-10.8194	4.8057	-2.25	0.024	-20.2387, -1.4002
	Slope	1.122	0.1148	0.0433	2.65	0.008	0.0299, 0.1997
	Rock comp	1.372	0.3164	0.1765	1.79	0.073	-0.0295, 0.6623
	Rock comp ²	0.997	-0.0027	0.0014	-1.97	0.049	-0.0053, 0.0000
Second-ranked	Intercept	—	-5.3720	1.4698	-3.66	<0.001	-8.2528, -2.4913
	Slope	1.103	0.0980	0.0305	3.22	0.001	0.0383, 0.1578
	Native veg	16.709	2.8160	0.8895	3.17	0.001	1.0725, 4.5594
Third-ranked	Intercept	—	-10.9192	4.8645	-2.25	0.023	-20.4537, -1.3847
	Slope	1.114	0.1077	0.0445	2.42	0.016	0.0204, 0.1949
	Native veg	4.991	1.6077	0.9919	1.62	0.105	-0.3363, 3.5518
	Rock comp	1.315	0.2735	0.1800	1.52	0.129	-0.0793, 0.6264
	Rock comp ²	0.998	-0.0023	0.0014	-1.64	0.101	-0.0050, 0.0004

Correction to the text

Text location	Corrected sentence
Page 322, Results	The 95% confidence intervals for model-averaged regression coefficients slightly overlapped zero for all variables except slope (Table 4).

Reference

Troy JR, Holmes ND, Veech JA, Raine AF, Green MC. 2014. Habitat suitability modeling for the Newell's shearwater on Kauai. *Journal of Fish and Wildlife Management* 5:315-329; 31944-687X. doi:10.3996/112013-JFWM-074

