

Habitat characterization, occupancy and detection probability of the Endangered and endemic Junín giant frog *Telmatobius macrostomus*

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Endangered Species Research 32: 429–436 (2017)

Table S1. Summary of AIC_c (corrected Akaike's information criterion) model selection for single-variable models of stream occupancy by *Telmatobius macrostomus*. The symbols ψ and p indicate the occupancy and the detection portions of the models, respectively. Values of ψ and p are untransformed estimates. $\Delta\text{AIC}_c = \text{AIC}_c - \min \text{AIC}_c$. w = Akaike weights; (.) = null model; ONMY = *Oncorhynchus mykiss* (rainbow trout); MSD = Mean Stream Depth; MSW = Mean Stream Width; MHI = Modified Hilsenhoff Index; ABI = Andean Biotic Index; E = Ephemeroptera; EPT = Ephemeroptera, Plecoptera, Trichoptera; Srvy = survey.

Model	AIC _c	ΔAIC_c	w	ψ (SE)	p (SE)
ψ (% Chironomidae), p (.)	58.27	0.00	0.14	-0.09 (0.06)	1.68 (0.49)
ψ (pH), p (.)	59.19	0.92	0.09	1.74 (0.60)	1.68 (0.49)
ψ (.), p (.) ^a	59.32	1.05	0.08	0.40 (0.11)	0.84 (0.06)
ψ (Conductivity), p (.)	59.72	1.45	0.07	0.01 (0.00)	1.68 (0.49)
ψ (% Silt), p (.)	59.91	1.64	0.06	-0.02 (0.01)	1.68 (0.49)
ψ (ONMY), p (.)	59.95	1.68	0.06	-1.61 (1.22)	1.68 (0.49)
ψ (MSD), p (.)	60.37	2.10	0.05	-1.67 (1.75)	1.68 (0.49)
ψ (% 2 Dominant), p (.)	60.59	2.32	0.04	-0.04 (0.02)	1.68 (0.49)
ψ (% E abundance), p (.)	60.73	2.46	0.04	0.03 (0.03)	1.68 (0.49)
ψ (Dam), p (.)	60.87	2.60	0.04	-1.25 (1.23)	1.68 (0.49)
ψ (% Gravel), p (.)	60.98	2.71	0.04	0.02 (0.02)	1.68 (0.49)
ψ (% Cobble), p (.)	61.23	2.96	0.03	0.04 (0.04)	1.68 (0.49)
ψ (Family richness), p (.)	61.62	3.35	0.03	0.18 (0.28)	1.68 (0.49)
ψ (% Sand), p (.)	61.66	3.39	0.03	0.01 (0.02)	1.68 (0.49)
ψ (% EPT abundance), p (.)	61.70	3.43	0.02	0.01 (0.02)	1.68 (0.49)
ψ (% Clay), p (.)	61.74	3.47	0.02	0.02 (0.03)	1.68 (0.49)
ψ (.), p (pH)	61.82	3.55	0.02	-0.40 (0.46)	-0.41 (0.91)
ψ (MSW), p (.)	61.86	3.59	0.02	-0.03 (0.07)	1.68 (0.49)
ψ (.), p (Water temperature)	61.99	3.72	0.02	-0.40 (0.46)	0.04 (0.15)
ψ (EPT richness), p (.)	61.99	3.72	0.02	-0.08 (0.32)	1.68 (0.49)
ψ (Water temperature), p (.)	62.01	3.74	0.02	-0.07 (0.28)	1.68 (0.49)
ψ (.), p (Conductivity)	62.02	3.75	0.02	-0.04 (0.46)	0.00 (0.00)
ψ (ABI), p (.)	62.05	3.78	0.02	-0.00 (0.04)	1.68 (0.49)
ψ (MHI), p (.)	62.05	3.78	0.02	0.07 (0.78)	1.68 (0.49)
ψ (.), Survey-specific p ^a	67.99	9.72	0.00	0.40 (0.11)	Srvy 1 0.87 (0.12) Srvy 2 0.87 (0.12) Srvy 3 0.87 (0.12) Srvy 4 0.75 (0.15)

^aModels showing real proportion values of ψ and p

Table S2. Untransformed variable estimates and SEs for explanatory variables from the best 'post-hoc' occupancy model for *Telmatobius macrostomus*.

Variable	Estimate (SE)
% Chironomidae	-0.10 (0.06)
pH	0.23 (0.14)
ONMY	-2.01 (1.31)