

Table S1 Top ranking spatial capture-recapture models from the examined model set including the effect of site and sex on detectability and σ . D = density, p = detection probability, σ = scale parameter of decline in detectability (p) with distance, δ = landscape resistance parameter.

Model	K	AIC	Δ AIC	weight
D(site) p (site + effort) σ (~site) δ (-1 + forest cover)	18	2265.26	0.00	0.71
D(site) p (site + effort + sex) σ (~site) δ (-1 + forest cover)	19	2268.07	2.81	0.18
D(site) p (site + effort + sex) σ (~site + sex) δ (-1 + forest cover)	20	2269.10	3.84	0.11

Table S2 Parameter estimates and their standard errors (SE) from the top ranked model. D, σ , and δ are on the log scale and relate to density per grid cell, km, and relative landscape resistance, respectively. p and ψ are on the logit scale and are probabilities.

	Parameter	Estimate	SE
Detection (p)	Intercept	-0.437	0.209
	Site 2	-0.030	0.238
	Site 3	-0.334	0.189
	Site 4	1.116	0.343
	Effort	0.013	0.001
Sigma (σ)	Intercept	7.235	0.067
	Site 2	-0.304	0.096
	Site 3	-0.069	0.066
	Site 4	0.295	0.074
Density (D)	Intercept	-2.986	0.299
	Site 2	0.235	0.418
	Site 3	-0.774	0.505
	Site 4	-1.044	0.447
Landscape resistance (δ)	Forest cover	-1.306	0.050
Probability of being a male (ψ)	Site 1	0.732	0.616
	Site 2	0.855	0.606
	Site 3	-0.683	0.865
	Site 4	-0.237	0.671