Supplementary Table 3. Results of the Edge Response software for each of the amphibian species registered in the province of El Oro, Ecuador. Habitat refers to the part of the Land Cover Spectrum preferred by the species. **Forest:** The species is found in a vegetation cover between 50 and 100, **Unknown or Non Abundant:** The species is found throughout the whole spectrum (0-100). The forest spectrum is further divided into three sections, **Sp:** Sparse, (40 or 60), **Ds:** Dense (20 or 80) and **vDs:** Very Dense (0 or 100). EI Preference refers to the spectrum of EI preferred by the species. **Core:** Low EI <20, decreasing the response, **Edge:** EI> 20, peak or increasing response, **noPref, Unknown or Non Abundant:** Whole spectrum, flat response. **T3:** near main edges. **Highside:** Location has higher land cover than surroundings, **Overflow** = species is present on both sides of the edge. Category gives the main Habitat + main EI Preference categories. Posterior prob refers to the likelihood of the species to belong in the given category. Dataset rating is the estimate of how well the spatial distribution of the census points enables to assess the species edge response (0 to 1).

Species	Habitat	EI Preference	Category	Posterior prob	Mean abundance	Fragmentation Impact	EI sensitivity	Dataset rating	Mean body size (mm)	Mean body temperature (°C)	Reproductive mode (Wells, 2007)
Agalychnis spurrelli	Forest Ds	Core 0	Forest Core	0.98	0.04	0.89	0.82	0.20	74.56	22.6	24
Barycholos pulcher	Forest vDs	Core 0	Forest Core	1	0.78	0.84	0.64	0.20	19.9	24.92	23
Boana pellucens	Forest	Edge T3 overflow	Forest Edge	1	0.65	0.70	0.44	0.20	49.21	24.72	1
Epipedobates anthonyi	Forest vDs	Edge T3 highside	Forest Edge	1	0.96	0.49	0.56	0.20	19.50	25.85	20
Espadarana prosoblepon	Forest vDs	Edge T3 highside	Forest Edge	1	0.67	0.47	0.69	0.20	26.75	24.59	25

Species											
Hyloxalus infraguttatus	Forest Ds	Core 0	Forest Core	0.58	0.24	0.85	0.78	0.20	17.67	25.37	20
Leptodactylus labrosus	Forest vDs	Edge T3 highside	Forest Edge	0.95	0.63	0.73	0.64	0.20	30.76	24.79	30
Pristimantis achatinus	Unknown	Unknown	Unknown	1	6.60	0.41	0.26	0.20	27.68	24.67	23
Pristimantis buenaventura	Forest Sp	Core 0	Forest Core	0.94	0.15	0.96	0.82	0.20	24.29	27.13	27
Pristimantis kuri	Forest Ds	Edge T3 highside	Forest Edge	0.95	0.40	0.64	0.81	0.20	23.17	25.01	27
Pristimantis nyctophylax	Forest vDs	Edge T3 highside	Forest Edge	1	0.25	0.69	0.71	0.20	25.32	24.05	27
Pristimantis subsigillatus	Forest Sp	Core 0	Forest Core	0.51	0.31	0.84	0.81	0.20	25.74	24.25	27
Rana bwana	Non abundant	Non abundant	Non abundant	0.74	0.22	0.97	0.97	0.20	52.46	25.53	1
Rhinella alata	Forest Ds	Edge T3 highside	Forest Edge	1	0.05	0.73	0.87	0.20	48.86	24.1	1
Rhinella horribilis	Non abundant	Non abundant	Non abundant	0.95	0.30	0.87	0.89	0.20	76	23.19	1
Smilisca phaeota	Forest Sp	Edge T3 highside	Forest Edge	1	0.16	0.52	0.61	0.20	53.27	25.2	1