

SUPPLEMENTARY MATERIAL

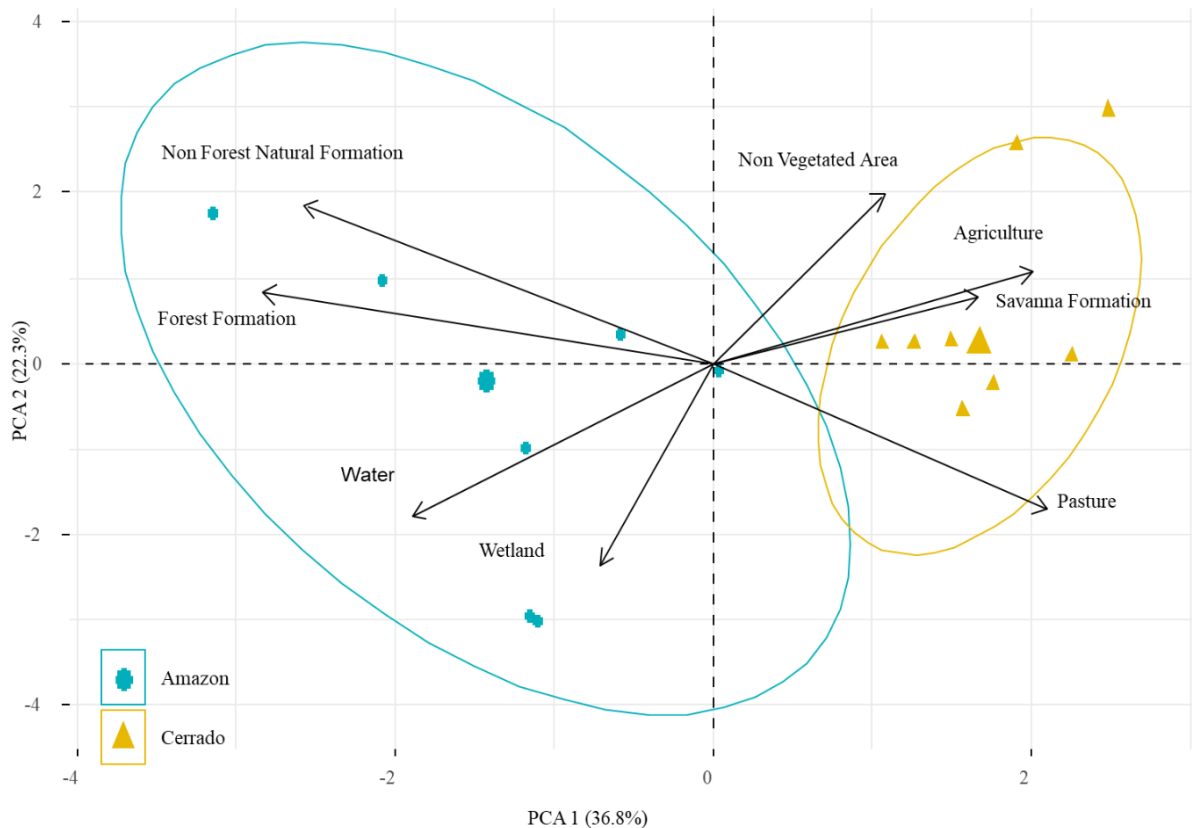


Figure S1. The PCA performed with the LULC data showed 59.1% variation in the first two axes with the formation of two groups of points, one comprising the locations sampled in the Amazon and negatively correlated to the first axis, together with the variables Forest Formation, Non-forest Natural Formation, Water and Flooded Areas and a second group, positively related to the first axis and comprising the collection points in the Cerrado. The variables positively correlated with the first axis, and with the highest values for the Cerrado, were Non-Vegetated Areas, Agriculture, Pastures and Savanna Formation. This pattern of separation between the LULC of the biomes is significant ($F_{1,115} = 136.64$; $p < 0.01$; $R^2 = 54.29$) and the biome variable explains 52% of the variation in LULC. Therefore, we did not use LULC in the GLMM model, opting to use only biome as a categorical variable.

Table S1. Land use and land cover (LULC) showed a pattern in which the Amazon has a higher percentage of floodable areas, water and forest formation compared to the Cerrado, which has a greater number of degraded areas (Pastures and Agriculture) and savanna formation.

Biome	Point	Forestry Formation	Savannah Formation	Flooded Forest	Non-Forest Natural Formation	Pasture	Agriculture	Non-Vegetated Area	Water
Amazon	P01	0.56	0.00	0.00	0.05	0.34	0.00	0.00	0.05
	P02	0.57	0.00	0.00	0.10	0.27	0.00	0.00	0.06
	P03	0.56	0.00	0.00	0.05	0.34	0.00	0.00	0.05
	P04	0.41	0.00	0.00	0.00	0.59	0.00	0.00	0.00
	P05	0.25	0.00	0.05	0.01	0.54	0.00	0.00	0.15
	P06	0.32	0.00	0.00	0.00	0.21	0.00	0.00	0.47
	P07	0.24	0.00	0.05	0.01	0.55	0.00	0.00	0.15
	P08	0.53	0.00	0.00	0.00	0.47	0.00	0.00	0.00
	P09	0.30	0.00	0.02	0.24	0.34	0.00	0.00	0.10
	P10	0.56	0.00	0.00	0.05	0.34	0.00	0.00	0.05
	P11	0.38	0.00	0.00	0.00	0.46	0.00	0.00	0.16
Cerrado	P12	0.12	0.00	0.00	0.01	0.57	0.28	0.00	0.01
	P13	0.11	0.00	0.00	0.00	0.75	0.13	0.00	0.00
	P14	0.06	0.07	0.00	0.02	0.13	0.72	0.00	0.00
	P15	0.17	0.06	0.00	0.01	0.54	0.18	0.00	0.04
	P16	0.17	0.04	0.00	0.00	0.58	0.21	0.00	0.00
	P17	0.08	0.00	0.00	0.00	0.69	0.23	0.00	0.00
	P18	0.11	0.14	0.00	0.00	0.69	0.05	0.00	0.00
	P19	0.14	0.10	0.00	0.00	0.33	0.29	0.14	0.00