

S3 Table Values obtained from the Mantel test. Asterisk indicates significant relationship between environmental variables and the overall compositional dissimilarity, replacement or differences in species richness.

Variable	Overall dissimilarity (β_{cc})			Replacement (β_{-3})			Differences in species richness (β_{rich})		
	Z-Mantel	r	p	Z-Mantel	r	p	Z-Mantel	r	p
Canopy cover	108.08	0.38	0.078	60.51	0.11	0.639	47.58	0.25	0.33
Tree height	37.1	0.1	0.55	21.22	0.03	0.857	15.89	0.06	0.714
Tree density	844.3	-0.14	0.489	413.41	-0.33	0.132	430.89	0.32	0.157
Basal area	92.71	-0.04	0.858	43.63	-0.36	0.104	49.08	0.49	0.039*
Leaf litter	30.23	0.43	0.025*	19.93	0.51	0.016*	10.3	-0.27	0.233
Size	28.81	0.53	0.015*	20.06	0.58	0.018*	8.75	-0.26	0.316
Shape	27.5	-0.03	0.857	14.51	-0.18	0.351	12.99	0.22	0.262
Elevation	8444.32	0.65	0.001*	5984.89	0.72	0.001*	2459.42	-0.33	0.146
Geographical distance	591.89	0.37	0.013*	350.07	0.22	0.128	241.82	0.08	0.589