

Table S3. Weight and change (Δ) in AICc and pseudo R^2 composite (birds, small mammals and bats combined) models of richness, diversity (H') and functional diversity at the grid and plot scale. Models considered metrics of diversity as a function of a heterogeneity index, a quadric influence of canopy cover (canopy curve) and mean shrub cover [shrub(m)]. Models were ranked based on AICc and the highest R^2 values are bold.

Scale	Model	K	AICc	Δ AICc	AICcWt	R^2
Grid						
	Richness					
	4:canopy curve	5	251.172	0.000	0.764	0.425
	2:heterogeneity	4	253.666	2.494	0.220	0.452
	3:shrub(m)	4	258.913	7.741	0.016	0.357
	1:null	3	279.595	28.424	0.000	0.169
	Diversity					
	4:canopy curve	5	221.816	0.000	0.989	0.563
	3:shrub(m)	4	231.312	9.497	0.009	0.529
	2:heterogeneity	4	233.492	11.677	0.003	0.625
	1:null	3	286.246	64.431	0.000	0.045
	Functional diversity					
	4:canopy curve	5	235.769	0.000	0.994	0.463
	3:shrub(m)	4	246.970	11.201	0.004	0.374
	2:heterogeneity	4	248.133	12.364	0.002	0.443
	1:null	3	286.992	51.223	0.000	< 0.001
Plot						
	Richness					
	4:canopy curve	5	2317.891	0.000	1.000	0.239
	2:heterogeneity	4	2340.221	22.330	0.000	0.248
	3:shrub(m)	4	2343.589	25.699	0.000	0.220
	1:null	3	2434.023	116.132	0.000	0.120
	Diversity					
	4:canopy curve	5	2254.035	0.000	1.000	0.292
	3:shrub(m)	4	2274.474	20.440	0.000	0.287
	2:heterogeneity	4	2303.845	49.811	0.000	0.292
	1:null	3	2447.606	193.571	0.000	0.105
	Functional diversity					
	3:shrub(m)	4	2338.097	0.000	0.993	0.225
	4:canopy curve	5	2348.577	10.480	0.005	0.210
	2:heterogeneity	4	2350.508	12.411	0.002	0.219
	1:null	3	2369.777	31.680	0.000	0.187