

Model	Biodiversity measure	Slope	r^2	$p - value$
Lognormal	N_{\max}	0.94	0.56	< 0.0001
	Evenness	-0.49	0.52	< 0.0001
	Skewness	0.14	0.54	< 0.0001
Zipf	N_{\max}	0.96	0.52	< 0.0001
	Evenness	-0.58	0.56	< 0.0001
	Skewness	0.095	0.35	< 0.0001
Log-series	N_{\max}	0.77	0.71	< 0.0001
	Evenness	-0.12	0.65	< 0.0001
	Skewness	0.043	0.80	< 0.0001
Broken-stick	N_{\max}	0.65	0.66	< 0.0001
	Evenness	-0.011	0.29	< 0.0001
	Skewness	0.016	0.24	< 0.0001