Appendix S1

Ecosphere

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Context-dependent directional effects of termite mounds on soil nutrients, vegetation communities, and mammalian foraging

Table S1: The top ten models for grazing intensity (tuft use) that received considerable empirical support ($\Delta_i < 7$) according to the second order Akaike Information Criterion (AIC*c*). The top selected model used in the final analysis is in bold. Δ_i is the difference between a model's AIC*c* value and that of the model with the lowest AIC*c*; the Akaike weight w_i is the likelihood of a given model being the best model in the set. For all models, line transect was a random effect nested within termite mound identity.

site:dist.fac + site:dir + seas:dir + site:seas

Rank	Form of regression model	AIC_c	No. parameters	Δ_i	w_i
1	**Site + Distance + Season + Direction + Site*Distance + Site*Direction +Season*Direction + Site*Season**	**12769.6**	**9**	**0.00**	**0.34**
2	Site + Distance + Season + Direction + Site*Distance + Site*Direction + Site*Season	12770.5	8	0.89	0.22
3	Site + Distance + Season + Direction + Site*Distance + Site*Direction + Season*Direction + Site*Season + Direction*Distance	12771.7	10	2.07	0.12

4	Site + Distance + Season + Direction + Site*Distance + Site*Direction + Site*Season + Direction*Distance	12772.5	9	2.88	0.08
5	Site + Distance + Season + Direction + Site*Distance + Site*Direction + Season*Direction + Site*Season + Distance*Season	12772.6	10	3.00	0.08
6	Site + Distance + Season + Direction + Site*Distance + Site*Direction + Site*Season + Distance*Season	12773.5	9	3.83	0.05
7	Site + Distance + Season + Direction + Site*Distance + Site*Direction + Season*Direction + Site*Season + Direction*Distance + Distance*Season	12774.5	11	4.82	0.03
8	Site + Distance + Season + Direction + Site*Distance + Site*Direction + Site*Season + Direction*Distance + Distance*Season	12775.2	10	5.56	0.02
9	Site + Distance + Season + Direction + Site*Distance + Season*Direction + Site*Season	12775.6	8	5.95	0.02
10	Site + Distance + Season + Direction + Site*Distance + Site*Season	12776.6	7	6.95	0.01

Table S2: The top three models for grazing lawn extent around termite mounds. Only the top performing model received considerable empirical support according to the second order Akaike Information Criterion (AIC*c*). The top selected model used in the final analysis is in bold. Δ_i is the difference between a model's AIC*c* value and that of the model with the lowest AIC*c*; the Akaike weight w_i is the likelihood of a given model being the best model in the set. For all models, termite mound identity was a random effect.

Rank	Form of regression model	AIC_c	No. parameters	Δ_i	w_i
1	**Site + Time + Direction + Site*Direction + Time*Direction**	**24357.0**	**6**	**0.00**	**1.00**
2	Site + Time + Direction + Site*Direction	24374.5	5	17.54	0.00
3	Site + Time + Direction + Time*Direction	24445.5	5	88.45	0.00