

Table S7. ANOVA outputs of predictor 'Data type', which represents the neighbor treatment predictor with two levels: with neighbors, without neighbors. Separate models were fit for each scale and (mis)alignment category.

Scale level	(Mis)alignment	Predictor	Chi.squared	Df	P-value
plot	sinks	Intercept	4.649	1	0.031
plot	sinks	Data type	16.316	1	0.000
plot	dispersal limitation	Intercept	73.827	1	0.000
plot	dispersal limitation	Data type	19.423	1	0.000
plot	aligned present	Intercept	77.445	1	0.000
plot	aligned present	Data type	43.856	1	0.000
plot	aligned absent	Intercept	19.730	1	0.000
plot	aligned absent	Data type	17.664	1	0.000
grid	sink	Intercept	0.605	1	0.437
grid	sink	Data type	15.032	1	0.000
grid	dispersal limitation	Intercept	24.113	1	0.000
grid	dispersal limitation	Data type	0.000	1	0.993
grid	aligned present	Intercept	0.004	1	0.948
grid	aligned present	Data type	16.322	1	0.000
grid	aligned absent	Intercept	6.181	1	0.013
grid	aligned absent	Data type	1.005	1	0.316
site	sink	Intercept	0.404	1	0.525
site	sink	Data type	8.011	1	0.005
site	dispersal limitation	Intercept	NA	NA	NA
site	dispersal limitation	Data type	NA	NA	NA
site	aligned present	Intercept	0.404	1	0.525
site	aligned present	Data type	8.011	1	0.005

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Scale level	(Mis)alignment	Predictor	Chi.squared	Df	P-value
site	aligned absent	Intercept	NA	NA	NA
site	aligned absent	Data type	NA	NA	NA