

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. NAs indicate there were no instances in our data, thus comparisons are not possible.

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

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