

Table S8. Contrasts between 'without neighbors' and 'with neighbors' treatment levels within each scale and (mis)alignment category. NAs indicate there were no instances in our data, thus comparisons are not possible.

Scale level	(Mis)alignment	z-ratio	P-value
plot	i. aligned present	6.622	0.000
plot	ii. sink	-4.039	0.000
plot	iii. dispersal limitation	4.407	0.000
plot	iv. aligned absent	-4.203	0.000
grid	i. aligned present	4.040	0.000
grid	ii. sink	-3.877	0.000
grid	iii. dispersal limitation	0.008	0.993
grid	iv. aligned absent	-1.002	0.316
site	i. aligned present	2.830	0.005
site	ii. sink	-2.830	0.005
site	iii. dispersal limitation	NA	NA
site	iv. aligned absent	NA	NA