

Table S14. Contrasts between each PAR and SAR from averaged method of scaling suitable habitat. Each scale was fit with a separate model.

Scale level	Pairwise comparison	z-ratio	P-value
plot	SAR / Potential-PAR with neighbors	21.250	0.000
plot	SAR / Potential-PAR without neighbors	12.795	0.000
plot	SAR / Realized-PAR with neighbors	25.336	0.000
plot	SAR / Realized-PAR without neighbors	20.226	0.000
plot	Potential-PAR with neighbors / Potential-PAR without neighbors	-8.933	0.000
plot	Potential-PAR with neighbors / Realized-PAR with neighbors	6.591	0.000
plot	Potential-PAR with neighbors / Realized-PAR without neighbors	-0.199	1.000
plot	Potential-PAR without neighbors / Realized-PAR with neighbors	14.613	0.000
plot	Potential-PAR without neighbors / Realized-PAR without neighbors	8.457	0.000
plot	Realized-PAR with neighbors / Realized-PAR without neighbors	-6.590	0.000
grid	SAR / Potential-PAR with neighbors	7.300	0.000
grid	SAR / Potential-PAR without neighbors	4.909	0.000
grid	SAR / Realized-PAR with neighbors	7.300	0.000
grid	SAR / Realized-PAR without neighbors	5.110	0.000
grid	Potential-PAR with neighbors / Potential-PAR without neighbors	-4.487	0.000
grid	Potential-PAR with neighbors / Realized-PAR with neighbors	0.000	1.000
grid	Potential-PAR with neighbors / Realized-PAR without neighbors	-4.193	0.000
grid	Potential-PAR without neighbors / Realized-PAR with neighbors	4.487	0.000
grid	Potential-PAR without neighbors / Realized-PAR without neighbors	0.367	0.996
grid	Realized-PAR with neighbors / Realized-PAR without neighbors	-4.193	0.000
site	SAR / Potential-PAR with neighbors	0.001	1.000

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Scale level	Pairwise comparison	z-ratio	P-value
site	SAR / Potential-PAR without neighbors	0.001	1.000
site	SAR / Realized-PAR with neighbors	0.001	1.000
site	SAR / Realized-PAR without neighbors	0.001	1.000
site	Potential-PAR with neighbors / Potential-PAR without neighbors	-3.099	0.017
site	Potential-PAR with neighbors / Realized-PAR with neighbors	0.000	1.000
site	Potential-PAR with neighbors / Realized-PAR without neighbors	-3.099	0.017
site	Potential-PAR without neighbors / Realized-PAR with neighbors	3.099	0.017
site	Potential-PAR without neighbors / Realized-PAR without neighbors	0.000	1.000
site	Realized-PAR with neighbors / Realized-PAR without neighbors	-3.099	0.017