

Linear Mixed Effects: individual worker site fidelity in each nest shape

Coefficient	Scaled Fidelity Zone					Fidelity Zone (cm²)					Scaled Occurrence Zone					Occurrence Zone (cm²)				
	Est.	SE	df	T	P	Est.	SE	df	T	P	Est.	SE	df	T	P	Est.	SE	df	T	P
Intercept	1.772	0.401	374	4.413	<0.001	0.053	0.109	374	0.483	0.629	5.498	0.592	374	9.286	<0.001	-0.222	0.183	374	-1.214	0.225
Nest	-0.024	0.442	374	-0.055	0.957	-0.179	0.128	374	-1.395	0.164	0.608	0.644	374	0.944	0.346	0.343	0.205	374	1.675	0.095
ColonySize	-0.003	0.002	374	-1.201	0.231	0.002	0.001	374	3.093	0.002	0.000	0.004	374	0.132	0.895	0.009	0.001	374	8.128	<0.001
MeanScaledDist	0.980	1.592	374	0.616	0.539	-0.042	0.462	374	-0.092	0.927	2.488	2.322	374	1.072	0.285	1.167	0.737	374	1.584	0.114
Density	-0.489	0.373	374	-1.311	0.191	-0.030	0.088	374	-0.337	0.737	0.113	0.560	374	0.202	0.840	0.052	0.165	374	0.316	0.752
Nest:ColonySize	0.001	0.002	374	0.243	0.808	0.001	0.001	374	0.849	0.396	-0.004	0.003	374	-1.307	0.192	-0.002	0.001	374	-2.152	0.032
Nest:MeanScaledDist	-0.852	1.663	374	-0.512	0.609	0.240	0.483	374	0.497	0.619	-2.318	2.426	374	-0.955	0.340	-1.118	0.770	374	-1.452	0.147
ColonySize:Density	0.002	0.003	374	0.721	0.472	0.002	0.001	374	2.507	0.013	0.001	0.005	374	0.239	0.811	0.008	0.001	374	6.074	<0.001
Random Effects																				
σ²	0.70					0.06					1.50					0.15				
τ₀₀	0.05 Colony					0.00 Colony					0.11 Colony					0.01 Colony				
N	19 Colony					19 Colony					19 Colony					19 Colony				
Observations	384					384					384					384				
Marginal R² / Conditional R²	0.026 / 0.085					0.341 / 0.353					0.020 / 0.087					0.803 / 0.813				