

Supplementary Table S1: Poisson regression on the total counts of birds seen in each enclosure zone for each time code for each month of the study.

Season (as a predictor) was also first included but this showed high collinearity with month and was removed. The interaction between time code and enclosure zone was also included in the model. The zone “Water”, the time code “Afternoon” and the month “May” were used as the reference levels for the model.

Behaviour	Predictor	Coefficient	SE	Z value	P value
Moving	Zone				
$r^2 = 77.8\%$	Back grass	-2.513	0.158	-15.93	<0.001
AIC = 1016.9	Big Island	0.004	0.057	0.070	0.944
	Front grass	-4.073	0.38	-10.71	<0.001
	Little island	-1.565	0.102	-15.33	<0.001
	Right grass	-2.885	0.253	-11.38	<0.001
	Rushes	-1.355	0.089	-15.09	<0.001
	Month				
	April	-0.7529	0.0696	-10.82	<0.001
	July	-0.803	0.0714	-11.24	<0.001
	June	-0.5995	0.067	-8.95	<0.001
	March	-3.206	0.271	-11.83	<0.001
	Time				
	Dawn	-4.96	1.00	-4.95	<0.001
	Dusk	-0.8849	0.0658	-13.45	<0.001
	Early	-3.247	0.281	-11.57	<0.001
	Morning	-0.8728	0.0646	-13.51	<0.001
	Night	-1.989	0.112	-17.77	<0.001
Forage	Zone				
$r^2 = 83.7\%$	Back land	-2.881	0.138	-20.88	<0.001
AIC = 1085.2	Big Island	-0.8533	0.0533	-16.01	<0.001
	Front land	-4.36	0.303	-14.39	<0.001
	Little island	-2.1192	0.095	-22.32	<0.001
	Right bank	-3.224	0.211	-15.3	<0.001
	Rushes	-1.4912	0.069	-21.61	<0.001
	Month				
	April	-0.2101	0.0513	-4.1	<0.001
	July	-0.8681	0.0632	-13.72	<0.001
	June	-1.2189	0.0721	-16.92	<0.001
	March	-2.825	0.217	-13.01	<0.001
	Time				
	Dawn	-3.868	0.502	-7.71	<0.001
	Dusk	-0.358	0.0497	-7.2	<0.001
	Early	-2.626	0.19	-13.84	<0.001
	Morning	-1.1387	0.0641	-17.76	<0.001
	Night	-1.9607	0.0964	-20.34	<0.001
Resting	Zone				
$r^2 = 86.2\%$	Back land	-3.482	0.253	-13.75	<0.001

AIC= 1504.1	Big Island	1.1569	0.0459	25.19	<0.001
	Front land	-20	580	-0.03	0.973
	Little island	-1.981	0.118	-16.76	<0.001
	Right bank	-20	716	-0.03	0.978
	Rushes	-2.223	0.124	-17.94	<0.001
	<i>Month</i>				
	April	-0.4081	0.0485	-8.42	<0.001
	July	-0.8905	0.056	-15.89	<0.001
	June	-0.6985	0.0529	-13.21	<0.001
	March	-3.71	0.226	-16.42	<0.001
	<i>Time</i>				
	Dawn	-0.371	0.119	-3.13	0.002
	Dusk	-1.7513	0.0689	-25.43	<0.001
	Early	-3.603	0.291	-12.39	<0.001
	Morning	-0.3924	0.0414	-9.49	<0.001
	Night	-3.099	0.139	-22.33	<0.001
Preening	<i>Zone</i>				
r ² = 84.4%	Back land	-4.659	0.502	-9.28	<0.001
AIC= 928.5	Big Island	0.5843	0.0558	10.48	<0.001
	Front land	-5.227	0.709	-7.38	<0.001
	Little island	-1.462	0.106	-13.82	<0.001
	Right bank	-3.8	0.411	-9.25	<0.001
	Rushes	-1.828	0.12	-15.2	<0.001
	<i>Month</i>				
	April	-0.2642	0.0615	-4.3	<0.001
	July	-0.9597	0.077	-12.46	<0.001
	June	-0.7921	0.0725	-10.92	<0.001
	March	-3.179	0.246	-12.9	<0.001
	<i>Time</i>				
	Dawn	-2.129	0.307	-6.94	<0.001
	Dusk	-1.3501	0.0784	-17.23	<0.001
	Early	-3.063	0.292	-10.48	<0.001
	Morning	-0.4008	0.0553	-7.24	<0.001
	Night	-3.466	0.221	-15.67	<0.001
Courtship	<i>Zone</i>				
r ² = 81.8%	Back land	-1.781	0.149	-11.99	<0.001
AIC= 888.9	Big Island	0.7425	0.0643	11.55	<0.001
	Front land	-3.089	0.307	-10.07	<0.001
	Little island	-1.054	0.106	-9.94	<0.001
	Right bank	-5.24	1	-5.23	<0.001
	Rushes	-1.364	0.119	-11.45	<0.001
	<i>Month</i>				
	April	0.0102	0.0692	0.15	0.883
	July	-0.6388	0.0843	-7.58	<0.001
	June	-0.3481	0.0768	-4.53	<0.001
	March	-1.813	0.152	-11.95	<0.001

	<i>Time</i>				
	Dawn	-19	636	-0.03	0.977
	Dusk	-1.8318	0.0949	-19.3	<0.001
	Early	-4.446	0.579	-7.67	<0.001
	Morning	-0.8188	0.0619	-13.23	<0.001
	Night	-5.097	0.501	-10.17	<0.001