

Chapter 4

Appendix 3. Confidence sets of models resulting from the information-theoretic approach and multi-model inference.

Confidence sets were defined as the set of models for which the relative likelihood value was greater than 0.125, following Burnham and Anderson (2002). For each confidence set, the selected land-cover buffer radius is shown and inclusion of detection probability (p) as an offset is indicated. Alternative model formulations to account for inter-correlated pairs of habitat and land-cover variables (active viticulture habitat with viticulture land-cover, forest habitat with forest land-cover) are also noted: (a) active viticulture and forest habitats, (b) forest and viticulture land-cover variables, (c) active viticulture habitat and forest land-cover, and (d) forest habitat and viticulture land-cover. For each model in the confidence set are shown the number of parameters (K), the variables included (shaded), Akaike's Information Criterion (AIC) adjusted for small sample size (AICc), and the difference between the model AICc and that of the best fitting model (Δ AICc). Model-averaged effect size (β), unconditional variance, 95% confidence interval (CI), and relative importance were calculated following Burnham and Anderson (2002).

REFERENCES

Burnham, K.P. & Anderson, D.R. 2002. *Model Selection and Multimodel Inference: A Practical Information-Theoretic Approach*. New York: Springer.

Table S3.1. Common Kestrel summer abundance

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	Δ AICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights
1	8																												284.33	0.00	1.000	0.059	0.059	
2	9					■					■																		284.39	0.06	0.971	0.057	0.116	
3	7													■															284.88	0.54	0.762	0.045	0.160	
4	7										■			■															284.95	0.61	0.735	0.043	0.204	
5	6																												285.10	0.77	0.682	0.040	0.244	
6	8										■			■															285.26	0.93	0.629	0.037	0.280	
7	8										■			■															285.27	0.94	0.625	0.037	0.317	
8	8					■					■			■															285.45	1.12	0.572	0.034	0.351	
9	7										■			■															285.59	1.26	0.533	0.031	0.382	
10	8										■			■															285.84	1.50	0.471	0.028	0.410	
11	7					■					■			■							■								285.98	1.65	0.438	0.026	0.435	
12	5																												286.24	1.91	0.386	0.023	0.458	
13	6													■															286.43	2.10	0.350	0.021	0.479	

14	7									286.48	2.15	0.342	0.020	0.499
15	7									286.54	2.20	0.332	0.019	0.518
16	7									286.55	2.22	0.330	0.019	0.537
17	6									286.60	2.27	0.321	0.019	0.556
18	6									286.61	2.28	0.320	0.019	0.575
19	6									286.69	2.35	0.308	0.018	0.593
20	7									286.86	2.53	0.283	0.017	0.610
21	7									287.18	2.85	0.241	0.014	0.624
22	7									287.22	2.89	0.236	0.014	0.638
23	6									287.43	3.09	0.213	0.013	0.650
24	5									287.51	3.18	0.204	0.012	0.662
25	6									287.92	3.59	0.166	0.010	0.672
26	5									288.01	3.68	0.159	0.009	0.681
27	4									288.18	3.84	0.147	0.009	0.690
28	6									288.28	3.94	0.139	0.008	0.698
29	6									288.29	3.96	0.138	0.008	0.706
30	5									288.36	4.02	0.134	0.008	0.714
31	4									288.45	4.12	0.128	0.007	0.722
32	7									288.47	4.13	0.127	0.007	0.729
33	5									288.48	4.14	0.126	0.007	0.736

model average

β	0.14	-0.16	-0.16	-0.22	-0.67	0.53	0.20	-1.38
variance	0.04	0.03	0.04	0.05	0.10	0.08	0.02	0.03
relative importance	0.52	0.58	0.56	0.64	0.99	0.93	0.77	1.00
95% CI	0.36	0.36	0.38	0.43	0.62	0.55	0.30	0.35

Table S3.2. Common Kestrel summer incidence, intercorrelations model (a)

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights
1	8																												210.95	0.00	1.000	0.027	0.027	
2	7																												211.01	0.06	0.969	0.026	0.053	
3	7																												211.07	0.12	0.942	0.025	0.079	
4	5																												211.34	0.39	0.824	0.022	0.101	
5	9																												211.58	0.63	0.731	0.020	0.121	
6	6																												211.69	0.74	0.692	0.019	0.139	
7	9																												211.79	0.84	0.656	0.018	0.157	
8	8																												211.83	0.88	0.645	0.017	0.175	
9	10																												211.86	0.91	0.633	0.017	0.192	
10	8																												211.88	0.93	0.627	0.017	0.209	
11	6																												211.89	0.94	0.626	0.017	0.226	
12	5																												211.96	1.01	0.603	0.016	0.242	
13	8																												212.00	1.04	0.593	0.016	0.258	
14	4																												212.02	1.07	0.586	0.016	0.274	
15	6																												212.20	1.25	0.535	0.014	0.288	
16	8																												212.27	1.32	0.516	0.014	0.302	
17	7																												212.36	1.41	0.493	0.013	0.316	
18	8																												212.48	1.53	0.466	0.013	0.328	
19	7																												212.55	1.59	0.451	0.012	0.340	
20	8																												212.57	1.62	0.446	0.012	0.352	
21	7																												212.61	1.66	0.437	0.012	0.364	
22	4																												212.62	1.67	0.434	0.012	0.376	
23	6																												212.63	1.68	0.431	0.012	0.388	
24	7																												212.72	1.77	0.412	0.011	0.399	
25	8																												212.73	1.78	0.411	0.011	0.410	
26	9																												212.74	1.79	0.409	0.011	0.421	
27	7																												212.79	1.84	0.399	0.011	0.432	
28	9																												212.83	1.88	0.391	0.011	0.442	
29	5																												212.97	2.02	0.365	0.010	0.452	
30	6																												213.01	2.05	0.358	0.010	0.462	
31	6																												213.17	2.22	0.329	0.009	0.471	
32	7																												213.18	2.23	0.328	0.009	0.480	
33	6																												213.26	2.30	0.316	0.009	0.488	
34	9																												213.26	2.31	0.315	0.009	0.497	
35	7																												213.30	2.35	0.309	0.008	0.505	
36	6																												213.35	2.39	0.302	0.008	0.513	
37	9																												213.35	2.40	0.302	0.008	0.521	
38	6																												213.37	2.42	0.299	0.008	0.529	
39	7																												213.42	2.47	0.290	0.008	0.537	
40	5																												213.43	2.48	0.289	0.008	0.545	
41	5																												213.48	2.53	0.282	0.008	0.553	
42	5																												213.58	2.63	0.268	0.007	0.560	
43	5																												213.69	2.74	0.254	0.007	0.567	

44	6										213.73	2.78	0.249	0.007	0.574
45	6										213.75	2.80	0.247	0.007	0.580
46	3										213.76	2.81	0.245	0.007	0.587
47	7										213.78	2.83	0.243	0.007	0.593
48	6										213.83	2.88	0.236	0.006	0.600
49	5										213.87	2.92	0.232	0.006	0.606
50	6										213.88	2.93	0.231	0.006	0.612
51	7										213.88	2.93	0.231	0.006	0.619
52	6										213.92	2.97	0.226	0.006	0.625
53	7										213.92	2.97	0.226	0.006	0.631
54	5										213.94	2.99	0.224	0.006	0.637
55	6										213.98	3.02	0.220	0.006	0.643
56	5										214.00	3.05	0.217	0.006	0.649
57	5										214.05	3.10	0.212	0.006	0.655
58	8										214.07	3.11	0.211	0.006	0.660
59	8										214.08	3.13	0.210	0.006	0.666
60	4										214.12	3.17	0.205	0.006	0.671
61	7										214.12	3.17	0.205	0.006	0.677
62	8										214.14	3.19	0.203	0.005	0.682
63	8										214.15	3.20	0.202	0.005	0.688
64	7										214.18	3.23	0.199	0.005	0.693
65	7										214.29	3.34	0.189	0.005	0.698
66	7										214.32	3.37	0.185	0.005	0.703
67	8										214.35	3.40	0.183	0.005	0.708
68	7										214.37	3.42	0.181	0.005	0.713
69	3										214.41	3.46	0.177	0.005	0.718
70	6										214.43	3.48	0.176	0.005	0.723
71	6										214.44	3.48	0.175	0.005	0.728
72	4										214.48	3.53	0.171	0.005	0.732
73	7										214.53	3.58	0.167	0.005	0.737
74	4										214.54	3.59	0.166	0.004	0.741
75	7										214.57	3.61	0.164	0.004	0.746
76	7										214.57	3.62	0.164	0.004	0.750
77	6										214.63	3.68	0.159	0.004	0.754
78	6										214.75	3.80	0.150	0.004	0.758
79	6										214.80	3.84	0.146	0.004	0.762
80	8										214.82	3.87	0.145	0.004	0.766
81	6										214.82	3.87	0.144	0.004	0.770
82	6										214.86	3.91	0.142	0.004	0.774
83	7										214.90	3.94	0.139	0.004	0.778
84	8										214.93	3.98	0.137	0.004	0.781
85	5										214.94	3.99	0.136	0.004	0.785
86	6										215.03	4.08	0.130	0.004	0.789
87	7										215.04	4.09	0.130	0.004	0.792
88	7										215.10	4.15	0.126	0.003	0.796

model average

β	0.02	-0.05	-0.02	-0.02	-0.08	0.02	0.03	0.04	0.21
variance	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
relative									
importance	0.40	0.78	0.51	0.45	0.98	0.45	0.47	0.72	1.00
95% CI	0.05	0.07	0.07	0.07	0.07	0.07	0.08	0.07	0.06

Table S3.3. Common Kestrel summer incidence, intercorrelations model (c)

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	Δ AICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights	
1	8																													210.95	0.00	1.000	0.081	0.081	
2	7																														211.07	0.12	0.942	0.076	0.157
3	5																														211.34	0.39	0.824	0.066	0.223
4	4																														212.02	1.07	0.586	0.047	0.270
5	6																														212.20	1.25	0.535	0.043	0.313
6	7																														212.55	1.59	0.451	0.036	0.350
7	4																														212.62	1.67	0.434	0.035	0.385
8	6																														212.63	1.68	0.431	0.035	0.419
9	7																														212.72	1.77	0.412	0.033	0.452
10	5																														212.97	2.02	0.365	0.029	0.482
11	6																														213.17	2.22	0.329	0.027	0.508
12	5																														213.48	2.53	0.282	0.023	0.531
13	5																														213.58	2.63	0.268	0.022	0.553
14	6																														213.75	2.80	0.247	0.020	0.573
15	3																														213.76	2.81	0.245	0.020	0.592
16	7																														213.78	2.83	0.243	0.020	0.612
17	6																														213.83	2.88	0.236	0.019	0.631
18	6																														213.92	2.97	0.226	0.018	0.649
19	5																														213.94	2.99	0.224	0.018	0.667
20	5																														214.00	3.05	0.217	0.018	0.685
21	5																														214.05	3.10	0.212	0.017	0.702
22	4																														214.12	3.17	0.205	0.017	0.718
23	7																														214.37	3.42	0.181	0.015	0.733
24	3																														214.41	3.46	0.177	0.014	0.747
25	6																														214.43	3.48	0.176	0.014	0.761
26	4																														214.48	3.53	0.171	0.014	0.775
27	7																														214.53	3.58	0.167	0.013	0.789
28	6																														214.63	3.68	0.159	0.013	0.802
29	6																														214.75	3.80	0.150	0.012	0.814
30	6																														214.80	3.84	0.146	0.012	0.825
31	6																														215.03	4.08	0.130	0.010	0.836
model average																																			
	β											-0.04	-0.03											-0.02	-0.06				0.03	0.03	0.21				
	variance											0.00	0.00											0.00	0.00				0.00	0.00	0.00				
	relative importance											0.71	0.52											0.45	0.93				0.52	0.66	1.00				
	95% CI											0.07	0.07											0.07	0.06				0.09	0.07	0.06				

Table S3.4. Common Kestrel winter incidence, intercorrelations model (b)

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights	
1	7																												216.17	0.00	1.000	0.272	0.272		
2	8		■									■	■			■													216.78	0.61	0.739	0.201	0.473		
3	6											■	■																217.32	1.15	0.563	0.153	0.627		
4	6											■																	218.02	1.84	0.398	0.108	0.735		
5	5																												218.12	1.95	0.377	0.103	0.838		
6	7		■										■																219.08	2.91	0.233	0.064	0.901		
7	7											■	■																219.78	3.60	0.165	0.045	0.946		
8	6		■																										220.12	3.95	0.139	0.038	0.984		
model average																																			
	β	0.00									-0.02	-0.02			0.14											-0.10		0.26							
	variance	0.00									0.00	0.00			0.00											0.00		0.00							
	relative importance	0.29									0.47	0.50			1.00											1.00		1.00							
	95% CI	0.03									0.06	0.06			0.06											0.07		0.06							

Table S3.5. Common Kestrel winter incidence, intercorrelations model (c)

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights
1	6																												215.67	0.00	1.000	0.048	0.048	
2	7																													216.04	0.38	0.828	0.040	0.087
3	7																													216.17	0.51	0.776	0.037	0.124
4	7																													216.21	0.54	0.764	0.036	0.161
5	8																													216.55	0.88	0.644	0.031	0.192
6	9																													216.61	0.94	0.624	0.030	0.221
7	8																													216.64	0.97	0.615	0.029	0.251
8	8																													216.78	1.11	0.573	0.027	0.278
9	10																													216.79	1.12	0.570	0.027	0.305
10	7																													216.92	1.26	0.534	0.025	0.331
11	8																													216.99	1.33	0.515	0.025	0.355
12	9																													217.11	1.45	0.485	0.023	0.379
13	9																													217.27	1.60	0.448	0.021	0.400
14	7																													217.28	1.62	0.446	0.021	0.421
15	8																													217.31	1.65	0.439	0.021	0.442
16	6																													217.32	1.66	0.437	0.021	0.463
17	9																													217.41	1.74	0.418	0.020	0.483
18	11																													217.43	1.76	0.415	0.020	0.503
19	7																													217.48	1.82	0.403	0.019	0.522
20	8																													217.51	1.84	0.399	0.019	0.541
21	10																													217.53	1.86	0.394	0.019	0.560
22	9																													217.54	1.87	0.393	0.019	0.579
23	8																													217.54	1.88	0.391	0.019	0.598
24	8																													217.58	1.91	0.385	0.018	0.616
25	8																													217.69	2.03	0.363	0.017	0.633
26	9																													217.81	2.14	0.343	0.016	0.650
27	7																													218.00	2.33	0.312	0.015	0.664
28	9																													218.01	2.34	0.310	0.015	0.679
29	6																													218.02	2.35	0.309	0.015	0.694
30	8																													218.09	2.42	0.298	0.014	0.708
31	5																													218.12	2.46	0.293	0.014	0.722
32	8																													218.16	2.49	0.287	0.014	0.736
33	10																													218.43	2.77	0.250	0.012	0.748
34	8																													218.48	2.81	0.245	0.012	0.760
35	9																													218.49	2.82	0.244	0.012	0.771
36	10																													218.58	2.91	0.233	0.011	0.782
37	6																													218.74	3.07	0.215	0.010	0.793
38	7																													218.75	3.08	0.214	0.010	0.803
39	9																													218.78	3.11	0.211	0.010	0.813
40	7																													218.87	3.21	0.201	0.010	0.823
41	9																													218.89	3.23	0.199	0.010	0.832
42	10																													218.90	3.23	0.199	0.009	0.842
43	9																													218.91	3.24	0.198	0.009	0.851

44	7									219.08	3.42	0.181	0.009	0.860
45	8									219.20	3.53	0.171	0.008	0.868
46	10									219.21	3.54	0.170	0.008	0.876
47	8									219.30	3.63	0.163	0.008	0.884
48	9									219.32	3.66	0.161	0.008	0.891
49	6									219.40	3.73	0.155	0.007	0.899
50	8									219.78	4.11	0.128	0.006	0.905
51	7									219.78	4.11	0.128	0.006	0.911
52	9									219.82	4.15	0.125	0.006	0.917

model average

β	0.00	-0.03	-0.01	-0.02	0.13	-0.02	-0.09	0.00	0.26
variance	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
relative									
importance	0.24	0.55	0.37	0.41	1.00	0.46	0.93	0.24	1.00
95% CI	0.03	0.07	0.04	0.05	0.07	0.07	0.09	0.03	0.06

Table S3.6. Chukar summer abundance

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights																					
1	12																												367.74	0.00	1.000	0.137	0.137																						
2	13																												367.93	0.18	0.912	0.124	0.261																						
3	12																												369.06	1.32	0.516	0.070	0.332																						
4	11																												369.73	1.99	0.370	0.051	0.382																						
5	11																												370.17	2.43	0.296	0.040	0.422																						
6	12																												370.24	2.50	0.286	0.039	0.462																						
7	11																												371.15	3.41	0.182	0.025	0.486																						
8	11																												371.21	3.47	0.176	0.024	0.510																						
9	12																												371.24	3.50	0.174	0.024	0.534																						
10	11																												371.38	3.64	0.162	0.022	0.556																						
11	12																												371.39	3.65	0.162	0.022	0.578																						
12	11																												371.72	3.98	0.137	0.019	0.597																						
13	10																												371.78	4.04	0.133	0.018	0.615																						
model average																																																							
	β			0.14			0.39				-0.48	0.60		0.66		-1.15	0.81		-0.48		0.55		-0.55																																
	variance			0.04			0.08				0.07	0.05		0.06		0.11	0.08		0.08		0.08		0.09																																
	relative importance			0.46			0.76				0.90	1.00		1.00		1.00	1.00		0.86		0.93		0.91																																
	95% CI			0.38			0.54				0.50	0.44		0.47		0.67	0.56		0.55		0.53		0.58																																

Table S3.7. Chukar summer incidence

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights
1	13																													191.10	0.00	1.000	0.059	0.059
2	10																													191.46	0.35	0.838	0.049	0.108
3	12																													191.54	0.44	0.803	0.047	0.155
4	9																													191.83	0.73	0.694	0.041	0.196
5	11																													192.21	1.11	0.574	0.034	0.229
6	11																													192.59	1.48	0.476	0.028	0.257
7	9																													192.67	1.57	0.457	0.027	0.284
8	12																													192.91	1.81	0.405	0.024	0.308
9	10																													193.00	1.90	0.386	0.023	0.331
10	11																													193.01	1.91	0.384	0.023	0.353
11	10																													193.04	1.94	0.379	0.022	0.375
12	8																													193.09	1.99	0.370	0.022	0.397
13	11																													193.09	1.99	0.370	0.022	0.419
14	9																													193.10	2.00	0.367	0.022	0.440
15	12																													193.22	2.12	0.347	0.020	0.461
16	10																													193.47	2.37	0.306	0.018	0.479
17	11																													193.54	2.44	0.295	0.017	0.496
18	10																													193.73	2.63	0.268	0.016	0.512
19	10																													193.78	2.68	0.261	0.015	0.527
20	12																													193.84	2.74	0.254	0.015	0.542
21	12																													193.93	2.83	0.243	0.014	0.556
22	10																													193.98	2.88	0.238	0.014	0.570
23	8																													194.13	3.03	0.219	0.013	0.583
24	11																													194.18	3.07	0.215	0.013	0.596
25	8																													194.33	3.23	0.199	0.012	0.607
26	9																													194.35	3.24	0.197	0.012	0.619
27	10																													194.44	3.34	0.189	0.011	0.630
28	9																													194.48	3.38	0.185	0.011	0.641
29	9																													194.62	3.52	0.172	0.010	0.651
30	11																													194.64	3.53	0.171	0.010	0.661
31	10																													194.64	3.54	0.170	0.010	0.671
32	10																													194.77	3.67	0.160	0.009	0.680
33	10																													194.82	3.72	0.156	0.009	0.689
34	11																													194.89	3.79	0.150	0.009	0.698
35	11																													194.95	3.85	0.146	0.009	0.707
36	9																													195.04	3.94	0.140	0.008	0.715
37	12																													195.06	3.96	0.138	0.008	0.723
38	11																													195.12	4.02	0.134	0.008	0.731

model average											
β	-0.01	-0.02	0.04	0.07	-0.05	0.12	-0.10	-0.03	0.10	-0.10	0.24
variance	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
relative											
importance	0.36	0.40	0.73	0.96	0.70	1.00	1.00	0.51	1.00	1.00	1.00
95% CI	0.04	0.07	0.07	0.06	0.09	0.07	0.07	0.08	0.07	0.07	0.05

Table S3.8. Chukar winter abundance

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights
1	10																													547.88	0.00	1.000	0.056	0.056
2	11																													548.17	0.29	0.866	0.049	0.105
3	9																													548.22	0.34	0.843	0.047	0.152
4	10																													548.55	0.67	0.717	0.040	0.192
5	9																													548.86	0.97	0.615	0.034	0.227
6	10																													549.08	1.19	0.550	0.031	0.257
7	8																													549.08	1.20	0.549	0.031	0.288
8	9																													549.15	1.26	0.531	0.030	0.318
9	9																													549.65	1.77	0.413	0.023	0.341
10	10																													549.68	1.80	0.407	0.023	0.364
11	8																													549.98	2.10	0.350	0.020	0.384
12	9																													550.11	2.22	0.329	0.018	0.402
13	9																													550.18	2.29	0.318	0.018	0.420
14	10																													550.22	2.34	0.311	0.017	0.437
15	9																													550.22	2.34	0.310	0.017	0.455
16	10																													550.23	2.35	0.309	0.017	0.472
17	9																													550.32	2.43	0.296	0.017	0.489
18	8																													550.38	2.50	0.287	0.016	0.505
19	9																													550.47	2.59	0.275	0.015	0.520
20	8																													550.50	2.62	0.270	0.015	0.535
21	9																													550.52	2.63	0.268	0.015	0.550
22	8																													550.53	2.64	0.267	0.015	0.565
23	8																													550.55	2.66	0.264	0.015	0.580
24	9																													550.76	2.88	0.237	0.013	0.593
25	8																													550.89	3.01	0.222	0.012	0.606
26	9																													550.96	3.08	0.215	0.012	0.618
27	8																													550.97	3.09	0.213	0.012	0.630
28	9																													551.08	3.19	0.203	0.011	0.641
29	8																													551.11	3.23	0.199	0.011	0.652
30	7																													551.19	3.31	0.191	0.011	0.663
31	10																													551.22	3.34	0.189	0.011	0.674
32	8																													551.30	3.42	0.181	0.010	0.684
33	7																													551.43	3.54	0.170	0.010	0.693
34	10																													551.56	3.68	0.159	0.009	0.702
35	9																													551.59	3.70	0.157	0.009	0.711
36	9																													551.62	3.74	0.154	0.009	0.720
37	8																													551.79	3.91	0.142	0.008	0.728
38	8																													551.82	3.94	0.139	0.008	0.735
39	7																													551.86	3.98	0.137	0.008	0.743
40	9																													551.87	3.99	0.136	0.008	0.751

model average												
β	-0.33	-0.22		0.17	-0.40	0.11		0.36	0.46	-0.78	0.42	-0.22
variance	0.06	0.05		0.03	0.13	0.02		0.04	0.07	0.04	0.04	0.03
relative												
importance	0.81	0.62		0.63	0.76	0.52		0.90	0.90	1.00	0.94	1.00
95% CI	0.47	0.45		0.36	0.71	0.29		0.37	0.49	0.39	0.36	0.33

Table S3.9. Chukar winter incidence

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights
1	10																													237.92	0.00	1.000	0.015	0.015
2	9																													237.95	0.03	0.984	0.014	0.029
3	11																													238.51	0.60	0.742	0.011	0.040
4	11																													238.53	0.62	0.735	0.011	0.050
5	10																													238.72	0.80	0.670	0.010	0.060
6	8																													238.76	0.85	0.655	0.010	0.069
7	8																													238.79	0.87	0.646	0.009	0.079
8	8																													238.85	0.93	0.629	0.009	0.088
9	9																													238.96	1.04	0.594	0.009	0.097
10	10																													238.97	1.05	0.591	0.009	0.105
11	12																													239.04	1.12	0.571	0.008	0.113
12	8																													239.06	1.15	0.564	0.008	0.122
13	10																													239.12	1.20	0.548	0.008	0.130
14	9																													239.13	1.21	0.545	0.008	0.138
15	9																													239.19	1.28	0.528	0.008	0.145
16	10																													239.20	1.28	0.527	0.008	0.153
17	7																													239.24	1.32	0.517	0.008	0.160
18	9																													239.29	1.37	0.504	0.007	0.168
19	9																													239.29	1.37	0.504	0.007	0.175
20	9																													239.30	1.38	0.501	0.007	0.182
21	10																													239.32	1.40	0.497	0.007	0.189
22	11																													239.35	1.43	0.490	0.007	0.197
23	10																													239.36	1.44	0.486	0.007	0.204
24	8																													239.36	1.45	0.485	0.007	0.211
25	9																													239.41	1.49	0.475	0.007	0.218
26	8																													239.43	1.52	0.468	0.007	0.224
27	11																													239.47	1.55	0.460	0.007	0.231
28	9																													239.48	1.56	0.458	0.007	0.238
29	10																													239.51	1.59	0.451	0.007	0.244
30	9																													239.56	1.64	0.440	0.006	0.251
31	10																													239.57	1.65	0.438	0.006	0.257
32	10																													239.62	1.70	0.427	0.006	0.263
33	7																													239.64	1.73	0.422	0.006	0.269
34	9																													239.67	1.75	0.417	0.006	0.275
35	11																													239.68	1.76	0.414	0.006	0.281
36	8																													239.70	1.79	0.410	0.006	0.287
37	9																													239.73	1.81	0.405	0.006	0.293
38	7																													239.74	1.82	0.403	0.006	0.299
39	7																													239.75	1.83	0.400	0.006	0.305
40	9																													239.78	1.86	0.394	0.006	0.311
41	9																													239.88	1.96	0.375	0.005	0.316
42	8																													239.88	1.96	0.374	0.005	0.321
43	10																													239.93	2.01	0.366	0.005	0.327

44	10									239.93	2.02	0.365	0.005	0.332
45	8									239.99	2.07	0.355	0.005	0.337
46	9									240.00	2.08	0.353	0.005	0.342
47	8									240.01	2.10	0.351	0.005	0.347
48	9									240.04	2.12	0.347	0.005	0.352
49	8									240.04	2.13	0.346	0.005	0.357
50	11									240.07	2.15	0.341	0.005	0.362
51	7									240.07	2.15	0.341	0.005	0.367
52	10									240.10	2.18	0.336	0.005	0.372
53	11									240.12	2.20	0.333	0.005	0.377
54	9									240.14	2.22	0.330	0.005	0.382
55	12									240.15	2.23	0.328	0.005	0.387
56	6									240.18	2.27	0.322	0.005	0.391
57	11									240.20	2.28	0.320	0.005	0.396
58	11									240.20	2.28	0.320	0.005	0.401
59	9									240.21	2.29	0.318	0.005	0.405
60	8									240.24	2.32	0.314	0.005	0.410
61	9									240.25	2.33	0.311	0.005	0.414
62	9									240.26	2.35	0.309	0.004	0.419
63	9									240.31	2.39	0.303	0.004	0.423
64	7									240.31	2.39	0.303	0.004	0.428
65	8									240.31	2.39	0.302	0.004	0.432
66	9									240.32	2.41	0.300	0.004	0.436
67	12									240.33	2.41	0.300	0.004	0.441
68	8									240.37	2.45	0.294	0.004	0.445
69	6									240.37	2.45	0.294	0.004	0.449
70	10									240.37	2.45	0.293	0.004	0.453
71	8									240.37	2.45	0.293	0.004	0.458
72	7									240.38	2.46	0.292	0.004	0.462
73	10									240.43	2.51	0.285	0.004	0.466
74	9									240.43	2.52	0.284	0.004	0.470
75	10									240.44	2.52	0.283	0.004	0.474
76	9									240.46	2.55	0.280	0.004	0.478
77	8									240.47	2.56	0.279	0.004	0.482
78	11									240.48	2.56	0.278	0.004	0.486
79	8									240.48	2.56	0.278	0.004	0.490
80	8									240.52	2.60	0.273	0.004	0.494
81	10									240.52	2.60	0.272	0.004	0.498
82	10									240.53	2.61	0.271	0.004	0.502
83	9									240.56	2.64	0.267	0.004	0.506
84	10									240.64	2.72	0.257	0.004	0.510
85	11									240.65	2.74	0.255	0.004	0.514
86	7									240.67	2.76	0.252	0.004	0.517
87	9									240.68	2.76	0.252	0.004	0.521
88	10									240.69	2.77	0.250	0.004	0.525
89	8									240.69	2.77	0.250	0.004	0.528
90	10									240.70	2.78	0.249	0.004	0.532
91	8									240.70	2.78	0.249	0.004	0.535
92	11									240.71	2.79	0.248	0.004	0.539
93	12									240.72	2.80	0.247	0.004	0.543
94	9									240.73	2.81	0.245	0.004	0.546
95	10									240.75	2.84	0.242	0.004	0.550
96	10									240.76	2.84	0.242	0.004	0.553
97	9									240.77	2.85	0.241	0.003	0.557
98	10									240.78	2.86	0.239	0.003	0.560

99	9									240.78	2.86	0.239	0.003	0.564
100	10									240.79	2.87	0.238	0.003	0.567
101	9									240.80	2.88	0.236	0.003	0.571
102	10									240.85	2.94	0.230	0.003	0.574
103	7									240.86	2.94	0.230	0.003	0.577
104	7									240.86	2.94	0.229	0.003	0.581
105	13									240.90	2.98	0.226	0.003	0.584
106	9									240.90	2.98	0.225	0.003	0.587
107	8									240.93	3.01	0.222	0.003	0.590
108	10									240.96	3.04	0.219	0.003	0.593
109	11									240.97	3.05	0.217	0.003	0.597
110	8									241.04	3.12	0.210	0.003	0.600
111	7									241.04	3.13	0.209	0.003	0.603
112	6									241.05	3.13	0.209	0.003	0.606
113	8									241.06	3.15	0.207	0.003	0.609
114	7									241.07	3.15	0.207	0.003	0.612
115	8									241.07	3.15	0.207	0.003	0.615
116	10									241.08	3.17	0.205	0.003	0.618
117	10									241.14	3.22	0.200	0.003	0.621
118	9									241.16	3.24	0.198	0.003	0.623
119	11									241.16	3.24	0.198	0.003	0.626
120	8									241.16	3.24	0.198	0.003	0.629
121	6									241.17	3.25	0.197	0.003	0.632
122	9									241.17	3.25	0.197	0.003	0.635
123	9									241.17	3.26	0.196	0.003	0.638
124	8									241.19	3.27	0.195	0.003	0.641
125	8									241.19	3.27	0.194	0.003	0.643
126	10									241.21	3.29	0.193	0.003	0.646
127	12									241.21	3.30	0.193	0.003	0.649
128	9									241.22	3.30	0.192	0.003	0.652
129	9									241.23	3.31	0.191	0.003	0.655
130	9									241.25	3.33	0.189	0.003	0.657
131	11									241.25	3.34	0.189	0.003	0.660
132	8									241.26	3.34	0.188	0.003	0.663
133	8									241.27	3.35	0.187	0.003	0.666
134	9									241.29	3.37	0.185	0.003	0.668
135	10									241.31	3.39	0.184	0.003	0.671
136	9									241.33	3.41	0.182	0.003	0.674
137	7									241.35	3.43	0.180	0.003	0.676
138	7									241.37	3.45	0.178	0.003	0.679
139	10									241.37	3.46	0.178	0.003	0.681
140	9									241.37	3.46	0.178	0.003	0.684
141	10									241.38	3.46	0.177	0.003	0.686
142	8									241.38	3.46	0.177	0.003	0.689
143	7									241.39	3.47	0.176	0.003	0.692
144	8									241.39	3.48	0.176	0.003	0.694
145	8									241.40	3.48	0.175	0.003	0.697
146	8									241.40	3.49	0.175	0.003	0.699
147	7									241.41	3.49	0.175	0.003	0.702
148	9									241.42	3.50	0.174	0.003	0.704
149	8									241.44	3.52	0.172	0.002	0.707
150	8									241.44	3.52	0.172	0.002	0.709
151	9									241.44	3.52	0.172	0.002	0.712
152	9									241.44	3.52	0.172	0.002	0.714
153	10									241.48	3.56	0.169	0.002	0.717

154	7														241.51	3.60	0.166	0.002	0.719
155	10														241.53	3.61	0.165	0.002	0.721
156	9														241.56	3.64	0.162	0.002	0.724
157	9														241.59	3.68	0.159	0.002	0.726
158	9														241.60	3.69	0.158	0.002	0.728
159	10														241.60	3.69	0.158	0.002	0.731
160	8														241.61	3.69	0.158	0.002	0.733
161	8														241.63	3.71	0.156	0.002	0.735
162	11														241.63	3.72	0.156	0.002	0.738
163	10														241.64	3.73	0.155	0.002	0.740
164	9														241.68	3.76	0.153	0.002	0.742
165	10														241.73	3.81	0.149	0.002	0.744
166	7														241.73	3.82	0.148	0.002	0.746
167	8														241.74	3.83	0.148	0.002	0.748
168	7														241.76	3.84	0.147	0.002	0.751
169	8														241.78	3.86	0.145	0.002	0.753
170	11														241.79	3.88	0.144	0.002	0.755
171	7														241.79	3.88	0.144	0.002	0.757
172	5														241.80	3.88	0.144	0.002	0.759
173	7														241.80	3.88	0.144	0.002	0.761
174	8														241.82	3.90	0.142	0.002	0.763
175	10														241.82	3.90	0.142	0.002	0.765
176	10														241.84	3.93	0.140	0.002	0.767
177	9														241.85	3.93	0.140	0.002	0.769
178	9														241.89	3.97	0.137	0.002	0.771
179	9														241.92	4.01	0.135	0.002	0.773
180	11														241.93	4.01	0.135	0.002	0.775
181	8														241.94	4.02	0.134	0.002	0.777
182	10														241.97	4.05	0.132	0.002	0.779
183	7														241.97	4.06	0.132	0.002	0.781
184	8														241.98	4.06	0.131	0.002	0.783
185	9														241.98	4.07	0.131	0.002	0.785
186	11														242.01	4.09	0.129	0.002	0.787
187	8														242.01	4.10	0.129	0.002	0.789
188	8														242.04	4.12	0.127	0.002	0.790
189	8														242.05	4.14	0.126	0.002	0.792
190	12														242.05	4.14	0.126	0.002	0.794
191	10														242.06	4.14	0.126	0.002	0.796
192	8														242.07	4.15	0.126	0.002	0.798

model average													
β	-0.04	-0.02	0.06	0.04	-0.01	0.03	0.06	0.19	-0.12	-0.02	0.01	0.35	
variance	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
relative													
importance	0.68	0.41	0.82	0.68	0.38	0.58	0.84	1.00	1.00	0.39	0.31	1.00	
95% CI	0.07	0.06	0.08	0.08	0.05	0.07	0.08	0.08	0.08	0.06	0.04	0.06	

Table S3.10. Black Francolin summer abundance, intercorrelations model (a)

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights			
1	10																													296.36	0.00	1.000	0.131	0.131			
2	9																													296.96	0.60	0.742	0.097	0.229			
3	9																													297.18	0.82	0.664	0.087	0.316			
4	8																													298.02	1.66	0.437	0.057	0.373			
5	8																													298.04	1.67	0.433	0.057	0.430			
6	9																													298.37	2.01	0.366	0.048	0.478			
7	8																													298.65	2.28	0.319	0.042	0.520			
8	9																													298.79	2.42	0.298	0.039	0.559			
9	7																													298.82	2.46	0.293	0.038	0.598			
10	8																													299.14	2.78	0.249	0.033	0.631			
11	8																													299.40	3.03	0.219	0.029	0.659			
12	7																													299.43	3.06	0.216	0.028	0.688			
13	7																													299.53	3.17	0.205	0.027	0.715			
14	8																													299.59	3.22	0.200	0.026	0.741			
15	8																													299.71	3.35	0.187	0.025	0.766			
16	6																													300.09	3.73	0.155	0.020	0.786			
17	7																													300.09	3.73	0.155	0.020	0.806			
18	9																													300.11	3.74	0.154	0.020	0.827			
19	8																													300.24	3.87	0.144	0.019	0.846			
20	7																													300.27	3.91	0.142	0.019	0.864			
model average																																					
	β			-0.22							-0.14								0.19		-0.60																
	variance			0.03							0.03								0.03		0.03																
	relative																																				
	importance			0.74							0.54								0.70		1.00																
	95% CI			0.36							0.35								0.32		0.36																

Table S3.11. Black Francolin summer abundance, intercorrelations model (c)

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights		
1	10																													296.76	0.00	1.000	0.089	0.089		
2	9																													296.96	0.20	0.907	0.080	0.169		
3	9																													297.77	1.01	0.604	0.053	0.222		
4	9																													297.84	1.08	0.584	0.052	0.274		
5	8																													298.02	1.26	0.534	0.047	0.321		
6	8																													298.04	1.27	0.529	0.047	0.368		
7	7																													298.06	1.29	0.524	0.046	0.414		
8	9																													298.08	1.32	0.517	0.046	0.460		
9	8																													298.16	1.40	0.497	0.044	0.504		
10	8																													298.33	1.56	0.458	0.041	0.545		
11	9																													298.35	1.59	0.452	0.040	0.585		
12	8																													298.65	1.88	0.390	0.035	0.619		
13	7																													298.82	2.06	0.357	0.032	0.651		
14	8																													298.83	2.07	0.355	0.031	0.682		
15	6																													299.04	2.27	0.321	0.028	0.711		
16	8																													299.09	2.32	0.313	0.028	0.739		
17	7																													299.29	2.53	0.283	0.025	0.764		
18	7																													299.30	2.53	0.282	0.025	0.788		
19	8																													299.40	2.63	0.268	0.024	0.812		
20	7																													299.53	2.77	0.251	0.022	0.834		
21	7																													299.90	3.14	0.208	0.018	0.853		
22	6																													300.09	3.33	0.190	0.017	0.870		
23	7																													300.09	3.33	0.189	0.017	0.886		
24	8																													300.24	3.47	0.176	0.016	0.902		
25	7																													300.27	3.51	0.173	0.015	0.917		
26	8																													300.33	3.57	0.168	0.015	0.932		
model average																																				
	β			-0.18							-0.16			0.23						0.14		-0.55					-0.91	0.23	0.44	-1.51						
	variance			0.03							0.04			0.05					0.02		0.04						0.09	0.05	0.01	0.04						
	relative importance			0.67							0.57			0.67					0.59		1.00						1.00	0.67	1.00	1.00						
	95% CI			0.35							0.36			0.43					0.31		0.38						0.59	0.44	0.22	0.39						

Table S3.12. Black Francolin summer abundance, intercorrelations model (d)

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights
1	10																												296.36	0.00	1.000	0.076	0.076	
2	11	■		■							■									■				■					296.92	0.55	0.759	0.058	0.134	
3	9										■																		296.96	0.60	0.742	0.056	0.190	
4	9										■																		297.18	0.82	0.664	0.051	0.241	
5	10	■		■							■									■				■					297.67	1.30	0.522	0.040	0.281	
6	10	■		■							■									■				■					297.95	1.59	0.452	0.034	0.315	
7	8																												298.02	1.66	0.437	0.033	0.348	
8	8																												298.04	1.67	0.433	0.033	0.381	
9	9										■									■				■					298.37	2.01	0.366	0.028	0.409	
10	8										■									■				■					298.65	2.28	0.319	0.024	0.433	
11	9			■							■									■				■					298.79	2.42	0.298	0.023	0.456	
12	10	■		■							■									■				■					298.82	2.45	0.293	0.022	0.478	
13	7			■							■									■				■					298.82	2.46	0.293	0.022	0.501	
14	9	■		■							■									■				■					298.95	2.58	0.275	0.021	0.522	
15	8			■							■									■				■					299.14	2.78	0.249	0.019	0.540	
16	9	■		■							■									■				■					299.18	2.82	0.244	0.019	0.559	
17	9	■		■							■									■				■					299.23	2.86	0.239	0.018	0.577	
18	8			■							■									■				■					299.40	3.03	0.219	0.017	0.594	
19	9	■		■							■									■				■					299.41	3.04	0.219	0.017	0.611	
20	7																												299.43	3.06	0.216	0.016	0.627	
21	7			■																■									299.53	3.17	0.205	0.016	0.643	
22	8																			■									299.59	3.22	0.200	0.015	0.658	
23	8										■									■				■					299.71	3.35	0.187	0.014	0.672	
24	10	■		■							■									■				■					299.81	3.44	0.179	0.014	0.686	
25	8	■		■							■									■				■					299.82	3.45	0.178	0.014	0.699	
26	6																												300.09	3.73	0.155	0.012	0.711	
27	7										■									■									300.09	3.73	0.155	0.012	0.723	
28	9			■							■									■				■					300.11	3.74	0.154	0.012	0.735	
29	10	■		■							■									■				■					300.16	3.79	0.150	0.011	0.746	
30	9	■		■							■									■				■					300.17	3.80	0.149	0.011	0.757	
31	8										■									■									300.24	3.87	0.144	0.011	0.768	
32	7										■									■									300.27	3.91	0.142	0.011	0.779	
33	8	■		■																■				■					300.31	3.95	0.139	0.011	0.790	
34	9	■		■																■				■					300.32	3.95	0.139	0.011	0.800	
model average																																		
β		0.05	-0.23								-0.15									0.22	-0.58			-0.24	-0.79	0.34	0.48	-1.54						
variance		0.01	0.03								0.04									0.03	0.04			0.08	0.07	0.05	0.01	0.04						
relative importance		0.37	0.77								0.56									0.77	1.00			0.59	1.00	0.86	1.00	1.00						
95% CI		0.17	0.36								0.36									0.33	0.37			0.54	0.53	0.42	0.23	0.41						

Table S3.13. Black Francolin summer incidence

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights		
1	8																												195.66	0.00	1.000	0.102	0.102			
2	7																													197.03	1.37	0.504	0.051	0.154		
3	9																													197.17	1.51	0.470	0.048	0.201		
4	9																													197.29	1.63	0.444	0.045	0.247		
5	7																													197.57	1.91	0.386	0.039	0.286		
6	8																													197.63	1.97	0.374	0.038	0.324		
7	7																													198.01	2.35	0.309	0.032	0.356		
8	8																													198.51	2.85	0.241	0.025	0.380		
9	8																													198.54	2.88	0.237	0.024	0.405		
10	8																													198.70	3.04	0.219	0.022	0.427		
11	6																													198.73	3.07	0.216	0.022	0.449		
12	6																													198.94	3.28	0.194	0.020	0.469		
13	10																													198.98	3.31	0.191	0.019	0.488		
14	7																													199.14	3.47	0.176	0.018	0.506		
15	8																													199.14	3.48	0.176	0.018	0.524		
16	7																													199.31	3.65	0.161	0.016	0.541		
17	6																													199.36	3.70	0.157	0.016	0.557		
18	7																													199.54	3.88	0.144	0.015	0.571		
19	8																													199.56	3.90	0.143	0.015	0.586		
20	8																													199.57	3.90	0.142	0.014	0.600		
21	9																													199.57	3.91	0.142	0.014	0.615		
22	7																													199.66	4.00	0.135	0.014	0.629		
23	7																													199.70	4.04	0.133	0.014	0.642		
model average																																				
β		0.04	-0.06										0.00						0.04	-0.07			-0.01	-0.04		0.13	0.24									
variance		0.00	0.00										0.00						0.00	0.00			0.00	0.00		0.00	0.00									
relative																																				
importance		0.73	0.93										0.25						0.80	0.98			0.34	0.71		1.00	1.00									
95% CI		0.06	0.06										0.02						0.06	0.06			0.04	0.08		0.06	0.05									

Table S3.14. Common Quail summer incidence

Land-cover buffer scale: 1 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights
1	10																												18.99	0.00	1.000	0.029	0.029	
2	9																												19.22	0.22	0.894	0.026	0.055	
3	10																												19.23	0.24	0.888	0.026	0.081	
4	11																												19.55	0.56	0.755	0.022	0.103	
5	10																												20.00	1.01	0.605	0.018	0.120	
6	11																												20.30	1.31	0.520	0.015	0.135	
7	11																												20.34	1.35	0.510	0.015	0.150	
8	11																												20.66	1.66	0.435	0.013	0.163	
9	11																												20.68	1.69	0.431	0.012	0.175	
10	11																												20.73	1.74	0.419	0.012	0.187	
11	12																												20.92	1.93	0.380	0.011	0.198	
12	10																												20.96	1.97	0.373	0.011	0.209	
13	11																												20.99	2.00	0.368	0.011	0.220	
14	10																												21.01	2.02	0.364	0.011	0.230	
15	12																												21.03	2.04	0.361	0.010	0.241	
16	9																												21.04	2.04	0.360	0.010	0.251	
17	10																												21.05	2.06	0.357	0.010	0.262	
18	11																												21.06	2.07	0.355	0.010	0.272	
19	11																												21.16	2.17	0.337	0.010	0.282	
20	12																												21.42	2.43	0.296	0.009	0.290	
21	12																												21.55	2.56	0.278	0.008	0.298	
22	11																												21.66	2.67	0.264	0.008	0.306	
23	8																												21.66	2.67	0.263	0.008	0.314	
24	10																												21.71	2.71	0.257	0.007	0.321	
25	9																												21.75	2.76	0.252	0.007	0.328	
26	9																												21.82	2.83	0.243	0.007	0.335	
27	9																												21.87	2.88	0.237	0.007	0.342	
28	11																												21.88	2.89	0.236	0.007	0.349	
29	12																												21.90	2.91	0.234	0.007	0.356	
30	11																												21.90	2.91	0.233	0.007	0.363	
31	12																												21.94	2.95	0.229	0.007	0.369	
32	12																												22.12	3.13	0.209	0.006	0.375	
33	12																												22.17	3.18	0.204	0.006	0.381	
34	8																												22.19	3.19	0.202	0.006	0.387	
35	12																												22.22	3.23	0.199	0.006	0.393	
36	12																												22.24	3.25	0.197	0.006	0.399	
37	12																												22.29	3.30	0.192	0.006	0.404	
38	9																												22.32	3.33	0.189	0.005	0.410	
39	10																												22.39	3.40	0.182	0.005	0.415	
40	10																												22.42	3.43	0.180	0.005	0.420	
41	10																												22.43	3.44	0.179	0.005	0.425	
42	9																												22.44	3.45	0.178	0.005	0.431	
43	12																												22.48	3.49	0.175	0.005	0.436	

44	9															22.49	3.50	0.174	0.005	0.441
45	9															22.49	3.50	0.174	0.005	0.446
46	8															22.53	3.54	0.170	0.005	0.451
47	13															22.53	3.54	0.170	0.005	0.456
48	12															22.59	3.60	0.165	0.005	0.460
49	13															22.61	3.62	0.164	0.005	0.465
50	13															22.64	3.65	0.162	0.005	0.470
51	11															22.65	3.66	0.161	0.005	0.474
52	12															22.66	3.66	0.160	0.005	0.479
53	12															22.67	3.68	0.159	0.005	0.484
54	11															22.71	3.72	0.155	0.005	0.488
55	10															22.72	3.73	0.155	0.004	0.493
56	8															22.78	3.79	0.151	0.004	0.497
57	13															22.85	3.86	0.145	0.004	0.501
58	10															22.88	3.88	0.143	0.004	0.505
59	10															22.90	3.91	0.142	0.004	0.510
60	11															22.97	3.97	0.137	0.004	0.514
61	10															22.97	3.98	0.137	0.004	0.518
62	12															22.98	3.98	0.136	0.004	0.521
63	10															23.01	4.02	0.134	0.004	0.525
64	13															23.03	4.04	0.133	0.004	0.529
65	10															23.05	4.06	0.132	0.004	0.533

model average

β	-0.04	0.00	-0.06	-0.06	0.01	0.03	0.06	0.00	0.00	-0.04	-0.01	-0.10	0.01	0.08
variance	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
relative														
importance	0.95	0.18	1.00	1.00	0.43	0.88	1.00	0.19	0.21	0.93	0.49	1.00	0.30	1.00
95% CI	0.04	0.01	0.04	0.04	0.03	0.04	0.04	0.01	0.01	0.04	0.03	0.04	0.02	0.03

Table S3.15. Turtle Dove summer abundance

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights	
1	9																												234.14	0.00	1.000	0.148	0.148		
2	8				■																								234.57	0.42	0.809	0.120	0.268		
3	7																												235.50	1.36	0.507	0.075	0.343		
4	8												■																235.53	1.39	0.500	0.074	0.417		
5	7																												235.75	1.61	0.447	0.066	0.483		
6	6																												236.15	2.01	0.367	0.054	0.538		
7	8				■																								236.19	2.05	0.359	0.053	0.591		
8	8												■																236.45	2.31	0.316	0.047	0.638		
9	7				■																								236.88	2.73	0.255	0.038	0.675		
10	7																												237.28	3.13	0.209	0.031	0.706		
11	6																												237.95	3.81	0.149	0.022	0.728		
12	7																												238.04	3.90	0.142	0.021	0.749		
13	6																												238.04	3.90	0.142	0.021	0.770		
14	7				■																								238.12	3.98	0.137	0.020	0.791		
15	5				■																								238.27	4.13	0.127	0.019	0.809		
model average																																			
	β				0.37								0.09		1.07						0.39				-0.49	-1.49			-2.04						
	variance				0.07								0.03		0.05						0.09				0.35	0.16			0.08						
	relative importance				0.79								0.39		1.00						0.79				0.61	1.00			1.00						
	95% CI				0.53								0.29		0.46						0.57				1.16	0.79			0.55						

Table S3.16. Turtle Dove summer incidence, intercorrelations model (a)

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights
1	9																												157.70	0.00	1.000	0.039	0.039	
2	8																													157.98	0.28	0.871	0.034	0.073
3	10																													158.24	0.54	0.765	0.030	0.102
4	8																													158.28	0.58	0.749	0.029	0.131
5	10																													158.52	0.82	0.664	0.026	0.157
6	7																													158.52	0.82	0.664	0.026	0.183
7	9																													158.67	0.96	0.617	0.024	0.207
8	7																													158.69	0.98	0.611	0.024	0.230
9	8																													158.75	1.05	0.593	0.023	0.253
10	9																													158.77	1.06	0.588	0.023	0.276
11	9																													158.81	1.11	0.574	0.022	0.298
12	9																													158.85	1.14	0.565	0.022	0.320
13	11																													158.93	1.22	0.543	0.021	0.341
14	8																													159.10	1.39	0.498	0.019	0.361
15	10																													159.19	1.48	0.477	0.018	0.379
16	8																													159.22	1.52	0.468	0.018	0.397
17	10																													159.37	1.66	0.435	0.017	0.414
18	6																													159.42	1.72	0.424	0.016	0.431
19	8																													159.48	1.78	0.411	0.016	0.447
20	8																													159.53	1.82	0.402	0.016	0.462
21	9																													159.53	1.83	0.401	0.016	0.478
22	9																													159.56	1.86	0.395	0.015	0.493
23	9																													159.75	2.04	0.360	0.014	0.507
24	6																													159.85	2.14	0.342	0.013	0.520
25	7																													159.89	2.19	0.335	0.013	0.533
26	7																													160.00	2.30	0.317	0.012	0.546
27	9																													160.10	2.40	0.301	0.012	0.557
28	10																													160.23	2.52	0.283	0.011	0.568
29	7																													160.24	2.53	0.282	0.011	0.579
30	7																													160.34	2.64	0.267	0.010	0.590
31	7																													160.43	2.73	0.256	0.010	0.599
32	8																													160.53	2.82	0.244	0.009	0.609
33	7																													160.59	2.88	0.237	0.009	0.618
34	8																													160.73	3.02	0.221	0.009	0.627
35	7																													160.76	3.06	0.217	0.008	0.635
36	8																													160.76	3.06	0.217	0.008	0.643
37	7																													160.83	3.13	0.209	0.008	0.652
38	8																													160.83	3.13	0.209	0.008	0.660
39	7																													160.95	3.25	0.197	0.008	0.667
40	8																													160.96	3.26	0.196	0.008	0.675
41	6																													161.02	3.31	0.191	0.007	0.682
42	8																													161.04	3.33	0.189	0.007	0.690
43	8																													161.09	3.38	0.184	0.007	0.697

44	9									161.15	3.44	0.179	0.007	0.704
45	7									161.18	3.48	0.176	0.007	0.711
46	8									161.29	3.58	0.167	0.006	0.717
47	7									161.40	3.69	0.158	0.006	0.723
48	8									161.41	3.71	0.157	0.006	0.729
49	8									161.45	3.74	0.154	0.006	0.735
50	8									161.47	3.76	0.152	0.006	0.741
51	8									161.60	3.89	0.143	0.006	0.747
52	9									161.64	3.93	0.140	0.005	0.752
53	9									161.77	4.07	0.131	0.005	0.757
54	9									161.77	4.07	0.131	0.005	0.762
55	8									161.79	4.08	0.130	0.005	0.767
56	9									161.80	4.10	0.129	0.005	0.772
57	8									161.85	4.15	0.126	0.005	0.777
58	8									161.87	4.16	0.125	0.005	0.782

model average														
β	0.02	0.05		0.03	0.09		0.05	0.04	-0.01	-0.09				0.16
variance	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00				0.00
relative														
importance	0.50	0.89		0.65	1.00		0.84	0.63	0.41	0.97				1.00
95% CI	0.05	0.06		0.06	0.06		0.07	0.08	0.04	0.07				0.05

Table S3.17. Turtle Dove summer incidence, intercorrelations model (c)

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights
1	8																													158.28	0.00	1.000	0.070	0.070
2	7																													158.69	0.41	0.816	0.058	0.128
3	9																													158.77	0.48	0.785	0.055	0.183
4	9																													158.85	0.56	0.754	0.053	0.236
5	8																													159.10	0.82	0.665	0.047	0.283
6	10																													159.19	0.90	0.636	0.045	0.328
7	8																													159.48	1.20	0.549	0.039	0.367
8	9																													159.75	1.46	0.481	0.034	0.401
9	6																													159.85	1.57	0.457	0.032	0.433
10	7																													160.00	1.72	0.423	0.030	0.463
11	7																													160.24	1.96	0.376	0.026	0.489
12	8																													160.53	2.24	0.326	0.023	0.512
13	7																													160.76	2.48	0.290	0.020	0.532
14	8																													160.76	2.48	0.290	0.020	0.553
15	7																													160.83	2.55	0.280	0.020	0.573
16	7																													160.95	2.67	0.263	0.019	0.591
17	6																													161.02	2.73	0.255	0.018	0.609
18	8																													161.09	2.80	0.246	0.017	0.626
19	9																													161.15	2.87	0.239	0.017	0.643
20	8																													161.29	3.01	0.222	0.016	0.659
21	7																													161.40	3.11	0.211	0.015	0.674
22	8																													161.60	3.32	0.190	0.013	0.687
23	8																													161.85	3.57	0.168	0.012	0.699
24	8																													161.87	3.58	0.167	0.012	0.711
25	9																													162.00	3.72	0.156	0.011	0.722
26	7																													162.11	3.83	0.148	0.010	0.732
27	8																													162.36	4.08	0.130	0.009	0.741
model average																																		
	β			0.02	0.05								0.04		0.08						0.07				-0.01	-0.07		0.16						
	variance			0.00	0.00								0.00		0.00						0.00				0.00	0.00		0.00						
	relative importance			0.55	0.84								0.75		1.00						1.00				0.44	0.93		1.00						
	95% CI			0.06	0.06								0.06		0.06						0.06				0.04	0.07		0.05						

Table S3.18. Great Spotted Cuckoo summer abundance

Land-cover buffer scale: 0.75 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights	
1	8																												180.75	0.00	1.000	0.276	0.276		
2	9																												181.36	0.60	0.739	0.204	0.479		
3	9																												182.70	1.95	0.377	0.104	0.583		
4	10																												183.29	2.54	0.281	0.077	0.661		
5	8																												184.91	4.15	0.125	0.035	0.695		
model average																																			
	β	2.77	-0.15				0.80				0.67			2.19					2.24	1.57								0.01	-3.13						
	variance	1.37	0.06				0.09				0.06			0.76					1.10	0.77								0.01	0.41						
	relative importance	1.00	0.45				1.00				1.00			1.00					1.00	0.95								0.26	1.00						
	95% CI	2.29	0.44				0.57				0.46			1.71					2.05	1.69								0.12	1.25						

Table S3.19. Great Spotted Cuckoo summer incidence

Land-cover buffer scale: 0.75 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights
1	7																													96.43	0.00	1.000	0.292	0.292
2	6																													97.19	0.76	0.683	0.200	0.492
3	8																													98.43	2.00	0.368	0.108	0.600
4	7																													99.18	2.75	0.253	0.074	0.674
5	6																													99.61	3.18	0.204	0.060	0.733
6	5																													100.12	3.69	0.158	0.046	0.779
model average																																		
	β	0.06	-0.02					0.05				0.09				0.06													0.00	0.11				
	variance	0.00	0.00					0.00				0.00				0.00													0.00	0.00				
	relative importance	0.94	0.59					0.92				1.00				1.00													0.23	1.00				
	95% CI	0.05	0.05					0.05				0.05				0.05													0.01	0.04				

Table S3.20. European Roller summer incidence, \hat{p} as offset

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	Δ AICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights			
1	6																												39.75	0.00	1.000	0.107	0.107				
2	5																													39.99	0.24	0.889	0.095	0.202			
3	7																													40.58	0.83	0.662	0.071	0.272			
4	7																													41.50	1.74	0.418	0.045	0.317			
5	6																													41.60	1.85	0.397	0.042	0.360			
6	6																													41.62	1.87	0.393	0.042	0.402			
7	7																													41.75	2.00	0.368	0.039	0.441			
8	6																													41.93	2.17	0.337	0.036	0.477			
9	5																													41.98	2.23	0.328	0.035	0.512			
10	4																													42.20	2.45	0.294	0.031	0.543			
11	8																													42.28	2.53	0.283	0.030	0.574			
12	8																													42.43	2.67	0.263	0.028	0.602			
13	7																													43.36	3.61	0.165	0.018	0.619			
14	6																													43.45	3.70	0.158	0.017	0.636			
15	6																													43.46	3.70	0.157	0.017	0.653			
16	8																													43.50	3.74	0.154	0.016	0.669			
17	5																													43.52	3.77	0.152	0.016	0.686			
18	7																													43.55	3.79	0.150	0.016	0.702			
19	7																													43.57	3.81	0.149	0.016	0.717			
20	6																													43.61	3.85	0.146	0.016	0.733			
21	6																													43.83	4.08	0.130	0.014	0.747			
model average																																					
	β		0.07		0.03										0.02					0.00	0.01							0.05		0.08							
	variance		0.00		0.00										0.00					0.00	0.00							0.00		0.00							
	relative importance																																				
	importance		1.00		0.83										0.60					0.25	0.33							0.94		1.00							
	95% CI		0.05		0.04										0.04					0.01	0.02							0.05		0.04							

Table S3.21. Eurasian Hoopoe summer abundance

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights		
1	9	█																											192.99	0.00	1.000	0.064	0.064			
2	10	█			█				█						█				█	█				█						193.12	0.14	0.933	0.060	0.123		
3	10	█																						█	█					193.31	0.33	0.848	0.054	0.178		
4	11	█			█																				█					193.33	0.34	0.843	0.054	0.231		
5	9	█							█						█										█					193.62	0.63	0.729	0.047	0.278		
6	8	█			█																				█					193.68	0.69	0.708	0.045	0.323		
7	10	█													█										█					193.96	0.98	0.614	0.039	0.362		
8	7	█			█																									194.64	1.65	0.437	0.028	0.390		
9	8	█			█										█															194.73	1.75	0.417	0.027	0.417		
10	7	█			█																									194.86	1.87	0.393	0.025	0.442		
11	8	█			█																									194.97	1.99	0.370	0.024	0.466		
12	9	█			█				█																					195.04	2.05	0.358	0.023	0.489		
13	10	█			█																									195.12	2.13	0.344	0.022	0.510		
14	9	█			█																									195.33	2.34	0.310	0.020	0.530		
15	9	█			█				█																					195.33	2.34	0.310	0.020	0.550		
16	9	█			█																									195.38	2.40	0.301	0.019	0.569		
17	9	█			█																									195.39	2.40	0.301	0.019	0.588		
18	6	█			█																									195.58	2.60	0.273	0.017	0.606		
19	9	█			█																									195.73	2.75	0.253	0.016	0.622		
20	8	█			█																									195.77	2.79	0.248	0.016	0.638		
21	8	█			█																									196.16	3.18	0.204	0.013	0.651		
22	8	█			█																									196.32	3.33	0.189	0.012	0.663		
23	8	█			█																									196.35	3.37	0.186	0.012	0.675		
24	8	█			█																									196.35	3.37	0.186	0.012	0.687		
25	8	█			█																									196.51	3.53	0.171	0.011	0.698		
26	10	█			█																									196.65	3.66	0.160	0.010	0.708		
27	7	█			█																									196.96	3.98	0.137	0.009	0.717		
28	7	█			█																									196.98	3.99	0.136	0.009	0.725		
model average																																				
β		0.47			0.44				0.13						0.45					0.33	0.61			1.11	0.12				-2.37							
variance		0.03			0.10				0.05						0.12					0.14	0.06			0.06	0.05				0.10							
relative																																				
importance		0.97			0.81				0.42						0.79					0.62	1.00			1.00	0.40				1.00							
95% CI		0.35			0.62				0.38						0.66					0.71	0.48			0.49	0.38				0.63							

Table S3.22. Eurasian Hoopoe summer incidence

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights
1	7																												119.32	0.00	1.000	0.033	0.033	
2	6																												119.66	0.35	0.841	0.028	0.061	
3	8																												120.56	1.24	0.538	0.018	0.078	
4	8																												120.76	1.45	0.485	0.016	0.094	
5	8																												120.78	1.47	0.481	0.016	0.110	
6	8																												120.88	1.56	0.458	0.015	0.125	
7	7																												121.03	1.71	0.426	0.014	0.139	
8	7																												121.07	1.75	0.416	0.014	0.153	
9	7																												121.15	1.84	0.399	0.013	0.166	
10	5																												121.25	1.93	0.381	0.013	0.178	
11	8																												121.28	1.97	0.374	0.012	0.191	
12	7																												121.30	1.98	0.372	0.012	0.203	
13	6																												121.34	2.02	0.364	0.012	0.215	
14	9																												121.52	2.20	0.333	0.011	0.226	
15	7																												121.59	2.28	0.320	0.011	0.236	
16	7																												121.81	2.49	0.288	0.009	0.246	
17	9																												121.82	2.50	0.286	0.009	0.255	
18	9																												121.86	2.55	0.280	0.009	0.264	
19	7																												121.92	2.60	0.273	0.009	0.273	
20	8																												121.97	2.66	0.265	0.009	0.282	
21	8																												122.08	2.76	0.252	0.008	0.290	
22	6																												122.13	2.82	0.245	0.008	0.298	
23	9																												122.14	2.82	0.244	0.008	0.306	
24	6																												122.18	2.86	0.240	0.008	0.314	
25	9																												122.18	2.86	0.239	0.008	0.322	
26	8																												122.23	2.91	0.233	0.008	0.330	
27	9																												122.32	3.00	0.223	0.007	0.337	
28	9																												122.32	3.00	0.223	0.007	0.344	
29	8																												122.34	3.02	0.221	0.007	0.352	
30	10																												122.35	3.03	0.220	0.007	0.359	
31	8																												122.45	3.13	0.209	0.007	0.366	
32	7																												122.47	3.15	0.207	0.007	0.373	
33	9																												122.48	3.16	0.206	0.007	0.379	
34	8																												122.51	3.19	0.203	0.007	0.386	
35	8																												122.53	3.21	0.201	0.007	0.393	
36	5																												122.55	3.24	0.198	0.007	0.399	
37	7																												122.57	3.25	0.197	0.006	0.406	
38	6																												122.62	3.30	0.192	0.006	0.412	
39	10																												122.62	3.30	0.192	0.006	0.418	
40	9																												122.70	3.38	0.184	0.006	0.424	
41	9																												122.74	3.42	0.181	0.006	0.430	
42	8																												122.77	3.45	0.178	0.006	0.436	
43	9																												122.81	3.49	0.174	0.006	0.442	

44	6											122.82	3.51	0.173	0.006	0.447
45	7											122.84	3.52	0.172	0.006	0.453
46	6											122.86	3.54	0.170	0.006	0.459
47	7											122.87	3.55	0.169	0.006	0.464
48	8											122.90	3.59	0.166	0.005	0.470
49	8											122.96	3.64	0.162	0.005	0.475
50	9											122.96	3.65	0.161	0.005	0.480
51	5											122.98	3.66	0.160	0.005	0.486
52	8											123.02	3.70	0.157	0.005	0.491
53	8											123.06	3.74	0.154	0.005	0.496
54	10											123.06	3.74	0.154	0.005	0.501
55	8											123.07	3.76	0.153	0.005	0.506
56	7											123.08	3.76	0.153	0.005	0.511
57	8											123.10	3.78	0.151	0.005	0.516
58	7											123.10	3.79	0.150	0.005	0.521
59	7											123.12	3.81	0.149	0.005	0.526
60	6											123.12	3.81	0.149	0.005	0.531
61	9											123.13	3.81	0.149	0.005	0.536
62	6											123.14	3.82	0.148	0.005	0.540
63	6											123.15	3.83	0.147	0.005	0.545
64	8											123.19	3.87	0.145	0.005	0.550
65	7											123.22	3.90	0.142	0.005	0.555
66	8											123.25	3.93	0.140	0.005	0.559
67	7											123.25	3.93	0.140	0.005	0.564
68	4											123.26	3.94	0.139	0.005	0.568
69	11											123.30	3.98	0.136	0.004	0.573
70	6											123.30	3.99	0.136	0.004	0.577
71	10											123.36	4.04	0.133	0.004	0.582
72	6											123.37	4.05	0.132	0.004	0.586
73	8											123.43	4.11	0.128	0.004	0.590
74	7											123.48	4.16	0.125	0.004	0.594

model average

β	0.06	0.04	0.00	0.01	0.01	0.01	0.03	0.09	0.00	0.13
variance	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
relative										
importance	1.00	0.84	0.22	0.33	0.45	0.37	0.59	1.00	0.16	1.00
95% CI	0.05	0.06	0.02	0.03	0.04	0.04	0.06	0.05	0.01	0.04

Table S3.23. Crested Lark summer abundance

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights	
1	10																													326.56	0.00	1.000	0.051	0.051	
2	12																														326.58	0.02	0.989	0.050	0.101
3	11																														326.85	0.29	0.865	0.044	0.145
4	11																														326.93	0.37	0.831	0.042	0.187
5	10																														327.44	0.89	0.641	0.033	0.220
6	11																														328.15	1.59	0.451	0.023	0.243
7	9																														328.22	1.67	0.434	0.022	0.265
8	10																														328.39	1.84	0.399	0.020	0.285
9	9																														328.63	2.07	0.355	0.018	0.303
10	10																														328.66	2.11	0.348	0.018	0.321
11	9																														329.16	2.60	0.272	0.014	0.335
12	8																														329.25	2.70	0.259	0.013	0.348
13	11																														329.33	2.77	0.250	0.013	0.361
14	8																														329.39	2.84	0.242	0.012	0.373
15	9																														329.47	2.92	0.233	0.012	0.385
16	10																														329.48	2.92	0.232	0.012	0.397
17	9																														329.57	3.01	0.222	0.011	0.408
18	8																														329.59	3.03	0.219	0.011	0.419
19	7																														329.59	3.04	0.219	0.011	0.430
20	11																														329.63	3.08	0.215	0.011	0.441
21	10																														329.66	3.10	0.212	0.011	0.452
22	8																														329.66	3.11	0.212	0.011	0.463
23	8																														329.73	3.17	0.205	0.010	0.473
24	8																														329.78	3.23	0.199	0.010	0.483
25	9																														329.80	3.25	0.197	0.010	0.493
26	11																														329.89	3.34	0.188	0.010	0.503
27	7																														329.89	3.34	0.188	0.010	0.512
28	10																														329.99	3.43	0.180	0.009	0.521
29	9																														330.08	3.52	0.172	0.009	0.530
30	9																														330.09	3.53	0.171	0.009	0.539
31	10																														330.20	3.65	0.161	0.008	0.547
32	9																														330.29	3.74	0.154	0.008	0.555
33	11																														330.35	3.79	0.150	0.008	0.563
34	7																														330.41	3.86	0.145	0.007	0.570
35	9																														330.49	3.94	0.140	0.007	0.577
36	7																														330.55	3.99	0.136	0.007	0.584
37	10																														330.70	4.15	0.126	0.006	0.590
38	10																														330.71	4.15	0.125	0.006	0.597
39	6																														330.71	4.16	0.125	0.006	0.603
40	9																														330.72	4.16	0.125	0.006	0.609

model average												
β	-0.41	0.18	-0.86	0.43	-0.39	0.47	-2.99	-0.81	-0.50	0.18	-2.59	
variance	0.07	0.07	0.20	0.11	0.13	0.14	1.19	0.20	0.08	0.04	0.30	
relative												
importance	0.84	0.41	0.92	0.75	0.68	0.75	1.00	0.91	0.92	0.58	1.00	
95% CI	0.51	0.48	0.85	0.63	0.69	0.73	2.14	0.83	0.54	0.40	1.07	

Table S3.24. Crested Lark summer incidence

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights			
1	9																													112.52	0.00	1.000	0.342	0.342			
2	10																														114.12	1.59	0.451	0.154	0.496		
3	8																														115.32	2.80	0.246	0.084	0.580		
4	8																														115.63	3.10	0.212	0.072	0.652		
5	7																														116.56	4.03	0.133	0.045	0.698		
6	8																														116.69	4.16	0.125	0.043	0.740		
model average																																					
	β																																				
	variance																																				
	relative importance																																				
	95% CI																																				

Table S3.25. Crested Lark winter abundance

Land-cover buffer scale: 1 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights		
1	16																													282.60	0.00	1.000	0.064	0.064		
2	17																													282.62	0.02	0.991	0.063	0.127		
3	14																													283.00	0.40	0.818	0.052	0.180		
4	13																													283.27	0.67	0.717	0.046	0.225		
5	15																													283.33	0.72	0.696	0.044	0.270		
6	15																													283.71	1.11	0.575	0.037	0.307		
7	15																													283.88	1.28	0.528	0.034	0.340		
8	16																													283.95	1.34	0.511	0.033	0.373		
9	16																													284.32	1.72	0.424	0.027	0.400		
10	14																													284.40	1.80	0.407	0.026	0.426		
11	14																													284.66	2.06	0.357	0.023	0.449		
12	14																													285.08	2.48	0.290	0.019	0.467		
13	12																													285.25	2.65	0.266	0.017	0.484		
14	13																													285.29	2.69	0.261	0.017	0.501		
15	16																													285.30	2.69	0.260	0.017	0.518		
16	15																													285.64	3.04	0.219	0.014	0.532		
17	15																													285.73	3.12	0.210	0.013	0.545		
18	14																													285.85	3.25	0.197	0.013	0.558		
19	15																													285.87	3.27	0.195	0.012	0.570		
20	15																													285.99	3.38	0.184	0.012	0.582		
21	16																													286.22	3.62	0.164	0.010	0.592		
22	16																													286.31	3.71	0.157	0.010	0.602		
23	14																													286.39	3.79	0.150	0.010	0.612		
24	14																													286.40	3.80	0.150	0.010	0.622		
25	14																													286.45	3.85	0.146	0.009	0.631		
26	15																													286.46	3.86	0.145	0.009	0.640		
27	15																													286.52	3.91	0.141	0.009	0.649		
28	15																													286.69	4.09	0.129	0.008	0.657		
model average																																				
	β	1.97	0.41		0.83						-1.19	-0.20	-0.24	-1.03																						
	variance	0.38	0.08		0.03						0.09	0.08	0.15	0.09																						
	relative importance	1.00	0.83		1.00						1.00	0.47	0.46	1.00																						
	95% CI	1.21	0.52		0.32						0.59	0.53	0.70	0.60																						

Table S3.26. Crested Lark winter incidence

Land-cover buffer scale: 0.75 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights
1	12																												125.54	0.00	1.000	0.052	0.052	
2	11																													126.12	0.58	0.749	0.039	0.091
3	10																													126.50	0.96	0.618	0.032	0.123
4	11																													127.01	1.47	0.480	0.025	0.148
5	10																													127.03	1.49	0.475	0.025	0.173
6	11																													127.04	1.50	0.472	0.025	0.197
7	11																													127.09	1.55	0.460	0.024	0.221
8	13																													127.24	1.70	0.427	0.022	0.243
9	9																													127.26	1.72	0.423	0.022	0.265
10	11																													127.42	1.88	0.391	0.020	0.286
11	9																													127.46	1.92	0.383	0.020	0.306
12	10																													127.51	1.97	0.373	0.019	0.325
13	10																													127.52	1.98	0.372	0.019	0.344
14	9																													127.83	2.29	0.319	0.017	0.361
15	12																													127.95	2.41	0.300	0.016	0.376
16	10																													128.00	2.46	0.293	0.015	0.392
17	10																													128.15	2.61	0.271	0.014	0.406
18	11																													128.34	2.80	0.247	0.013	0.419
19	12																													128.49	2.95	0.229	0.012	0.430
20	12																													128.53	2.99	0.225	0.012	0.442
21	9																													128.53	2.99	0.224	0.012	0.454
22	10																													128.60	3.06	0.216	0.011	0.465
23	10																													128.66	3.12	0.210	0.011	0.476
24	8																													128.68	3.14	0.208	0.011	0.487
25	11																													128.69	3.15	0.207	0.011	0.497
26	12																													128.75	3.21	0.201	0.010	0.508
27	9																													128.81	3.27	0.195	0.010	0.518
28	9																													128.84	3.30	0.192	0.010	0.528
29	11																													128.86	3.32	0.190	0.010	0.538
30	8																													128.92	3.38	0.184	0.010	0.547
31	8																													128.93	3.39	0.184	0.010	0.557
32	10																													128.93	3.39	0.184	0.010	0.567
33	10																													128.97	3.43	0.180	0.009	0.576
34	8																													129.01	3.47	0.176	0.009	0.585
35	9																													129.05	3.51	0.173	0.009	0.594
36	10																													129.07	3.53	0.171	0.009	0.603
37	11																													129.10	3.56	0.169	0.009	0.612
38	10																													129.10	3.56	0.169	0.009	0.621
39	10																													129.11	3.57	0.168	0.009	0.629
40	12																													129.18	3.64	0.162	0.008	0.638
41	9																													129.28	3.73	0.155	0.008	0.646
42	9																													129.35	3.81	0.149	0.008	0.653
43	11																													129.38	3.84	0.147	0.008	0.661

44	10														129.43	3.89	0.143	0.007	0.669
45	11														129.48	3.94	0.140	0.007	0.676
46	10														129.51	3.97	0.137	0.007	0.683
47	10														129.69	4.15	0.126	0.007	0.689
48	11														129.70	4.16	0.125	0.006	0.696

model average																			
β	0.14	0.04	0.08	-0.10	-0.03	-0.07	0.06	-0.04	0.03	0.02	0.00	0.17							
variance	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00							
relative importance	1.00	0.78	1.00	1.00	0.62	0.98	0.92	0.76	0.70	0.44	0.23	1.00							
95% CI	0.07	0.06	0.05	0.06	0.06	0.06	0.06	0.06	0.05	0.06	0.02	0.04							

Table S3.27. Woodlark winter abundance

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative
																																		Akaike Weights
1	6																												464.47	0.00	1.000	0.070	0.070	
2	7																												465.89	1.42	0.492	0.035	0.105	
3	7																												465.91	1.44	0.486	0.034	0.139	
4	5																												465.98	1.51	0.469	0.033	0.172	
5	7																												466.10	1.63	0.442	0.031	0.203	
6	7																												466.34	1.88	0.391	0.028	0.231	
7	8																												466.67	2.20	0.333	0.023	0.254	
8	8																												466.96	2.49	0.288	0.020	0.274	
9	9																												467.17	2.70	0.259	0.018	0.293	
10	6																												467.27	2.81	0.246	0.017	0.310	
11	8																												467.48	3.01	0.222	0.016	0.326	
12	6																												467.48	3.02	0.221	0.016	0.341	
13	8																												467.55	3.08	0.215	0.015	0.356	
14	8																												467.56	3.09	0.213	0.015	0.371	
15	6																												467.74	3.28	0.194	0.014	0.385	
16	8																												467.83	3.36	0.186	0.013	0.398	
17	6																												467.89	3.42	0.181	0.013	0.411	
18	7																												468.04	3.58	0.167	0.012	0.422	
19	10																												468.13	3.66	0.160	0.011	0.434	
20	7																												468.13	3.67	0.160	0.011	0.445	
21	5																												468.18	3.71	0.157	0.011	0.456	
22	6																												468.20	3.74	0.154	0.011	0.467	
23	9																												468.22	3.75	0.153	0.011	0.478	
24	7																												468.35	3.88	0.144	0.010	0.488	
25	9																												468.54	4.08	0.130	0.009	0.497	
26	6																												468.60	4.13	0.127	0.009	0.506	
27	7																												468.62	4.15	0.126	0.009	0.515	
28	6																												468.63	4.16	0.125	0.009	0.523	
model average																																		
β		-0.57			0.48				-1.52							0.51		-0.08										0.12	0.07	-0.30				
variance		0.17			0.08				0.49							0.07		0.05										0.06	0.03	0.08				
relative																																		
importance		0.80			0.88				1.00							0.94		0.26										0.35	0.31	1.00				
95% CI		0.79			0.54				1.37							0.52		0.32										0.41	0.26	0.56				

Table S3.28. Woodlark winter incidence

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights	
1	5																												211.64	0.00	1.000	0.148	0.148		
2	6																												211.69	0.05	0.977	0.144	0.292		
3	6																												211.71	0.07	0.965	0.142	0.434		
4	7																												212.20	0.56	0.754	0.111	0.546		
5	5																												212.93	1.30	0.523	0.077	0.623		
6	6																												213.25	1.61	0.448	0.066	0.689		
7	5																												214.14	2.50	0.287	0.042	0.732		
8	5																												214.19	2.55	0.279	0.041	0.773		
9	4																												214.54	2.90	0.234	0.035	0.807		
10	4																												214.57	2.93	0.231	0.034	0.842		
11	5																												214.72	3.08	0.214	0.032	0.873		
12	6																												214.84	3.20	0.202	0.030	0.903		
13	5																												215.30	3.66	0.160	0.024	0.927		
14	4																												215.34	3.70	0.158	0.023	0.950		
model average																																			
	β	-0.02			0.05				-0.04							0.09													0.02	0.22					
	variance	0.00			0.00				0.00							0.00													0.00	0.00					
	relative importance	0.53			0.81				0.72							1.00													0.48	1.00					
	95% CI	0.06			0.07				0.07							0.06													0.05	0.06					

Table S3.29. Skylark winter incidence, intercorrelations model (b)

Land-cover buffer scale: 1.25 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights
1	11																												87.01	0.00	1.000	0.058	0.058	
2	10																													87.66	0.64	0.725	0.042	0.099
3	10																													87.92	0.91	0.635	0.037	0.136
4	10																													88.07	1.06	0.589	0.034	0.170
5	12																													88.26	1.24	0.537	0.031	0.201
6	9																													88.26	1.25	0.536	0.031	0.232
7	12																													88.37	1.36	0.507	0.029	0.261
8	9																													88.60	1.59	0.451	0.026	0.287
9	11																													88.81	1.79	0.408	0.024	0.311
10	11																													88.82	1.81	0.405	0.023	0.334
11	11																													88.89	1.88	0.391	0.023	0.357
12	10																													88.90	1.89	0.389	0.022	0.379
13	9																													88.91	1.90	0.387	0.022	0.401
14	12																													89.00	1.98	0.371	0.021	0.423
15	8																													89.14	2.13	0.345	0.020	0.443
16	11																													89.25	2.24	0.326	0.019	0.461
17	10																													89.36	2.34	0.310	0.018	0.479
18	11																													89.38	2.37	0.306	0.018	0.497
19	11																													89.45	2.43	0.296	0.017	0.514
20	13																													89.48	2.47	0.291	0.017	0.531
21	11																													89.65	2.63	0.268	0.015	0.546
22	11																													89.80	2.79	0.248	0.014	0.561
23	12																													89.82	2.80	0.246	0.014	0.575
24	11																													89.85	2.84	0.242	0.014	0.589
25	10																													89.87	2.86	0.239	0.014	0.603
26	10																													89.89	2.87	0.238	0.014	0.616
27	12																													89.90	2.88	0.237	0.014	0.630
28	11																													89.92	2.90	0.234	0.013	0.643
29	9																													89.94	2.92	0.232	0.013	0.657
30	10																													90.06	3.04	0.218	0.013	0.669
31	10																													90.09	3.08	0.215	0.012	0.682
32	13																													90.24	3.23	0.199	0.011	0.693
33	13																													90.36	3.34	0.188	0.011	0.704
34	10																													90.38	3.37	0.185	0.011	0.715
35	9																													90.55	3.54	0.171	0.010	0.725
36	10																													90.60	3.59	0.166	0.010	0.734
37	12																													90.70	3.69	0.158	0.009	0.743
38	10																													90.75	3.74	0.154	0.009	0.752
39	11																													90.76	3.75	0.154	0.009	0.761
40	12																													90.80	3.78	0.151	0.009	0.770
41	12																													90.81	3.80	0.149	0.009	0.778
42	12																													90.82	3.80	0.149	0.009	0.787
43	9																													91.03	4.01	0.134	0.008	0.795

44 12      91.04 4.02 0.134 0.008 0.802

model average														
β	0.14	0.09	0.03	0.08	0.00	0.01	-0.10	-0.02	-0.02	0.07	-0.10	0.01	0.23	
variance	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
relative importance	1.00	1.00	0.67	1.00	0.21	0.33	1.00	0.58	0.56	1.00	1.00	0.30	1.00	
95% CI	0.06	0.06	0.06	0.04	0.01	0.03	0.06	0.05	0.04	0.05	0.05	0.02	0.04	

Table S3.30. Skylark winter incidence, intercorrelations model (c)

Land-cover buffer scale: 1.25 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights		
1	13																												94.96	0.00	1.000	0.065	0.065			
2	14																												95.43	0.46	0.793	0.051	0.116			
3	12																												95.69	0.72	0.696	0.045	0.161			
4	13																												95.99	1.03	0.598	0.039	0.200			
5	14																												96.47	1.50	0.472	0.031	0.231			
6	14																												96.85	1.89	0.389	0.025	0.256			
7	15																												96.90	1.94	0.380	0.025	0.281			
8	13																												96.97	2.01	0.366	0.024	0.304			
9	15																												97.34	2.38	0.304	0.020	0.324			
10	12																												97.44	2.48	0.289	0.019	0.343			
11	14																												97.46	2.50	0.287	0.019	0.361			
12	12																												97.48	2.51	0.285	0.018	0.380			
13	13																												97.59	2.62	0.269	0.017	0.397			
14	12																												97.79	2.83	0.243	0.016	0.413			
15	14																												97.82	2.86	0.239	0.016	0.429			
16	15																												98.20	3.24	0.198	0.013	0.441			
17	13																												98.22	3.26	0.196	0.013	0.454			
18	11																												98.26	3.29	0.193	0.012	0.467			
19	13																												98.51	3.55	0.170	0.011	0.478			
20	13																												98.54	3.58	0.167	0.011	0.488			
21	11																												98.63	3.66	0.160	0.010	0.499			
22	14																												98.69	3.73	0.155	0.010	0.509			
23	16																												98.74	3.78	0.151	0.010	0.519			
24	11																												98.81	3.85	0.146	0.009	0.528			
25	12																												98.86	3.89	0.143	0.009	0.537			
26	11																												98.90	3.94	0.140	0.009	0.546			
27	11																												98.90	3.94	0.139	0.009	0.556			
28	13																												98.98	4.02	0.134	0.009	0.564			
29	12																												99.03	4.07	0.131	0.008	0.573			
30	12																												99.06	4.10	0.129	0.008	0.581			
31	10																												99.12	4.15	0.125	0.008	0.589			
model average																																				
	β			0.13	0.07			0.08	-0.04					0.00		0.00	-0.01		-0.09	-0.11		-0.05			-0.04	0.07	-0.12	0.02	0.23							
	variance			0.00	0.00			0.00	0.00					0.00		0.00	0.00		0.00	0.00		0.00			0.00	0.00	0.00	0.00	0.00							
	relative																																			
	importance			1.00	1.00			1.00	0.88					0.22		0.24	0.36		1.00	1.00		0.91			0.94	0.94	1.00	0.60	1.00							
	95% CI			0.05	0.05			0.04	0.05					0.02		0.02	0.04		0.05	0.06		0.06			0.05	0.07	0.06	0.05	0.04							

Table S3.31. Barn Swallow summer abundance, $\hat{\beta}$ as offset

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	Δ AICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights	
1	8																													413.32	0.00	1.000	0.267	0.267	
2	7																													413.75	0.43	0.806	0.215	0.481	
3	6																													414.10	0.78	0.676	0.180	0.662	
4	7																													415.09	1.77	0.413	0.110	0.772	
5	7																													415.54	2.22	0.330	0.088	0.860	
6	6																													416.94	3.61	0.164	0.044	0.904	
model average																																			
β		0.30	0.73							1.14									0.18														0.40	-2.68	
variance		0.07	0.06							0.11									0.06														0.06	1.73	
relative importance		0.68	1.00							1.00									0.51														0.85	1.00	
95% CI		0.52	0.50							0.64									0.47														0.44	2.58	

Table S3.32. Barn Swallow summer incidence, \hat{p} as offset

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	Δ AICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights
1	9																												198.08	0.00	1.000	0.029	0.029	
2	8																												198.15	0.07	0.967	0.028	0.057	
3	10																												198.56	0.48	0.788	0.023	0.080	
4	8																												198.63	0.54	0.762	0.022	0.102	
5	7																												198.66	0.58	0.748	0.022	0.123	
6	7																												198.88	0.79	0.672	0.019	0.143	
7	9																												198.91	0.82	0.662	0.019	0.162	
8	7																												198.93	0.85	0.654	0.019	0.181	
9	7																												198.97	0.89	0.641	0.019	0.199	
10	8																												199.05	0.97	0.616	0.018	0.217	
11	6																												199.12	1.04	0.596	0.017	0.234	
12	8																												199.16	1.07	0.584	0.017	0.251	
13	8																												199.29	1.21	0.546	0.016	0.267	
14	9																												199.41	1.33	0.515	0.015	0.282	
15	6																												199.43	1.35	0.510	0.015	0.296	
16	9																												199.45	1.36	0.506	0.015	0.311	
17	7																												199.52	1.44	0.487	0.014	0.325	
18	6																												199.57	1.49	0.475	0.014	0.339	
19	7																												199.61	1.53	0.466	0.013	0.352	
20	6																												199.68	1.60	0.450	0.013	0.365	
21	10																												199.70	1.62	0.445	0.013	0.378	
22	7																												199.71	1.63	0.444	0.013	0.391	
23	8																												199.72	1.64	0.441	0.013	0.404	
24	8																												199.72	1.64	0.441	0.013	0.416	
25	6																												199.76	1.67	0.433	0.013	0.429	
26	9																												199.82	1.74	0.419	0.012	0.441	
27	5																												200.03	1.95	0.377	0.011	0.452	
28	9																												200.05	1.97	0.374	0.011	0.463	
29	8																												200.06	1.98	0.372	0.011	0.474	
30	8																												200.14	2.06	0.357	0.010	0.484	
31	9																												200.21	2.13	0.345	0.010	0.494	
32	10																												200.30	2.21	0.331	0.010	0.503	
33	8																												200.34	2.26	0.323	0.009	0.513	
34	7																												200.35	2.27	0.322	0.009	0.522	
35	11																												200.47	2.38	0.303	0.009	0.531	
36	8																												200.48	2.39	0.303	0.009	0.540	
37	9																												200.51	2.42	0.298	0.009	0.548	
38	8																												200.51	2.43	0.297	0.009	0.557	
39	7																												200.53	2.45	0.294	0.009	0.565	
40	7																												200.54	2.46	0.293	0.008	0.574	
41	8																												200.66	2.58	0.275	0.008	0.582	
42	8																												200.68	2.59	0.273	0.008	0.590	
43	7																												200.75	2.66	0.264	0.008	0.597	

44	8										200.81	2.73	0.256	0.007	0.605
45	9										200.83	2.75	0.253	0.007	0.612
46	7										200.85	2.77	0.250	0.007	0.619
47	9										200.88	2.79	0.247	0.007	0.626
48	8										200.89	2.80	0.246	0.007	0.633
49	6										200.91	2.82	0.244	0.007	0.640
50	7										200.94	2.86	0.240	0.007	0.647
51	9										200.94	2.86	0.240	0.007	0.654
52	7										201.04	2.95	0.228	0.007	0.661
53	7										201.09	3.00	0.223	0.006	0.667
54	9										201.09	3.01	0.222	0.006	0.674
55	9										201.17	3.08	0.214	0.006	0.680
56	5										201.23	3.14	0.208	0.006	0.686
57	8										201.25	3.16	0.206	0.006	0.692
58	10										201.27	3.19	0.203	0.006	0.698
59	5										201.32	3.23	0.199	0.006	0.703
60	7										201.34	3.25	0.197	0.006	0.709
61	7										201.39	3.31	0.191	0.006	0.715
62	7										201.40	3.31	0.191	0.006	0.720
63	7										201.40	3.32	0.190	0.005	0.726
64	8										201.41	3.32	0.190	0.005	0.731
65	6										201.42	3.34	0.189	0.005	0.737
66	7										201.46	3.37	0.185	0.005	0.742
67	9										201.55	3.46	0.177	0.005	0.747
68	8										201.55	3.46	0.177	0.005	0.752
69	8										201.64	3.56	0.169	0.005	0.757
70	8										201.65	3.57	0.168	0.005	0.762
71	7										201.68	3.60	0.166	0.005	0.767
72	8										201.70	3.62	0.164	0.005	0.771
73	10										201.80	3.72	0.156	0.004	0.776
74	8										201.84	3.75	0.153	0.004	0.780
75	9										201.84	3.76	0.153	0.004	0.785
76	6										201.85	3.77	0.152	0.004	0.789
77	8										201.94	3.86	0.145	0.004	0.793
78	7										201.96	3.87	0.144	0.004	0.797
79	6										201.98	3.90	0.142	0.004	0.802
80	6										202.01	3.93	0.140	0.004	0.806
81	10										202.11	4.02	0.134	0.004	0.809
82	5										202.11	4.03	0.133	0.004	0.813
83	8										202.14	4.05	0.132	0.004	0.817
84	6										202.17	4.09	0.130	0.004	0.821
85	7										202.23	4.14	0.126	0.004	0.825
86	8										202.23	4.15	0.126	0.004	0.828

model average															
β	0.05	0.01													
variance	0.00	0.00													
relative															
importance	0.82	0.28													
95% CI	0.07	0.04													

Table S3.33. Cyprus Wheatear summer abundance, intercorrelations model (b)

Land-cover buffer scale: 0.75 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights	
1	12	█		█				█							█				█	█	█	█	█			█	█		496.61	0.00	1.000	0.210	0.210		
2	11	█		█				█							█				█	█	█	█	█			█	█		497.73	1.11	0.573	0.120	0.330		
3	13		█	█															█	█	█	█	█			█	█		498.32	1.70	0.427	0.090	0.420		
4	12		█	█															█	█	█	█	█			█	█		498.73	2.12	0.347	0.073	0.493		
5	11		█	█															█	█	█	█	█			█	█		499.26	2.64	0.267	0.056	0.549		
6	11		█	█															█	█	█	█	█			█	█		499.40	2.79	0.248	0.052	0.601		
7	10		█	█															█	█	█	█	█			█	█		500.08	3.47	0.177	0.037	0.638		
8	11		█	█															█	█	█	█	█			█	█		500.56	3.95	0.139	0.029	0.667		
9	12		█	█															█	█	█	█	█			█	█		500.68	4.07	0.131	0.027	0.695		
model average																																			
	β	0.31	-0.11					0.32							0.50				0.42	0.50	0.35	0.17	0.54				0.83	0.03	-0.67						
	variance	0.01	0.01					0.01							0.02				0.02	0.02	0.04	0.02	0.03				0.04	0.00	0.02						
	relative importance	1.00	0.63					1.00							1.00				1.00	1.00	0.92	0.79	1.00				1.00	0.32	1.00						
	95% CI	0.21	0.22					0.19							0.26				0.29	0.29	0.37	0.24	0.32				0.40	0.11	0.29						

Table S3.34. Cyprus Wheatear summer abundance, intercorrelations model (d)

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights
1	12																												497.46	0.00	1.000	0.026	0.026	
2	11																												497.78	0.32	0.853	0.023	0.049	
3	10																												498.21	0.75	0.686	0.018	0.067	
4	11																												498.32	0.86	0.652	0.017	0.084	
5	9																												498.42	0.96	0.620	0.016	0.101	
6	10																												498.49	1.03	0.596	0.016	0.117	
7	9																												498.64	1.18	0.555	0.015	0.131	
8	11																												498.67	1.21	0.547	0.014	0.146	
9	11																												498.67	1.21	0.547	0.014	0.160	
10	8																												498.69	1.23	0.541	0.014	0.174	
11	9																												498.81	1.35	0.510	0.013	0.188	
12	12																												498.87	1.41	0.495	0.013	0.201	
13	9																												498.89	1.43	0.489	0.013	0.214	
14	8																												498.92	1.46	0.481	0.013	0.227	
15	11																												498.97	1.51	0.471	0.012	0.239	
16	9																												498.98	1.52	0.467	0.012	0.252	
17	10																												499.00	1.54	0.464	0.012	0.264	
18	10																												499.00	1.54	0.462	0.012	0.276	
19	9																												499.02	1.56	0.459	0.012	0.288	
20	8																												499.02	1.56	0.458	0.012	0.300	
21	10																												499.04	1.58	0.455	0.012	0.312	
22	9																												499.04	1.58	0.453	0.012	0.324	
23	10																												499.05	1.58	0.453	0.012	0.336	
24	9																												499.06	1.60	0.450	0.012	0.348	
25	10																												499.07	1.61	0.446	0.012	0.360	
26	13																												499.09	1.63	0.442	0.012	0.372	
27	8																												499.13	1.67	0.433	0.011	0.383	
28	10																												499.28	1.82	0.403	0.011	0.394	
29	10																												499.31	1.85	0.398	0.011	0.404	
30	8																												499.34	1.88	0.391	0.010	0.415	
31	12																												499.37	1.91	0.384	0.010	0.425	
32	9																												499.38	1.92	0.383	0.010	0.435	
33	10																												499.41	1.95	0.378	0.010	0.445	
34	9																												499.46	2.00	0.369	0.010	0.455	
35	10																												499.47	2.01	0.366	0.010	0.464	
36	10																												499.53	2.07	0.355	0.009	0.474	
37	10																												499.56	2.10	0.351	0.009	0.483	
38	11																												499.58	2.12	0.347	0.009	0.492	
39	11																												499.61	2.15	0.342	0.009	0.501	
40	11																												499.64	2.18	0.336	0.009	0.510	
41	7																												499.66	2.20	0.332	0.009	0.519	
42	10																												499.69	2.23	0.328	0.009	0.528	
43	11																												499.73	2.27	0.321	0.008	0.536	

44	9						499.76	2.30	0.317	0.008	0.544
45	9						499.80	2.34	0.310	0.008	0.553
46	8						499.87	2.41	0.300	0.008	0.561
47	11						499.89	2.43	0.297	0.008	0.568
48	10						499.98	2.52	0.284	0.008	0.576
49	11						500.01	2.55	0.280	0.007	0.583
50	12						500.05	2.59	0.274	0.007	0.591
51	7						500.07	2.61	0.271	0.007	0.598
52	10						500.08	2.62	0.270	0.007	0.605
53	10						500.10	2.64	0.267	0.007	0.612
54	11						500.17	2.70	0.259	0.007	0.619
55	12						500.18	2.72	0.257	0.007	0.626
56	8						500.18	2.72	0.256	0.007	0.632
57	11						500.27	2.81	0.245	0.006	0.639
58	9						500.29	2.83	0.243	0.006	0.645
59	10						500.34	2.88	0.236	0.006	0.651
60	10						500.35	2.89	0.236	0.006	0.658
61	10						500.35	2.89	0.235	0.006	0.664
62	10						500.39	2.93	0.231	0.006	0.670
63	9						500.39	2.93	0.231	0.006	0.676
64	9						500.42	2.96	0.227	0.006	0.682
65	9						500.43	2.97	0.226	0.006	0.688
66	9						500.48	3.02	0.221	0.006	0.694
67	10						500.51	3.05	0.218	0.006	0.700
68	9						500.59	3.13	0.210	0.006	0.705
69	8						500.63	3.17	0.205	0.005	0.711
70	9						500.72	3.26	0.196	0.005	0.716
71	10						500.73	3.27	0.195	0.005	0.721
72	11						500.73	3.27	0.195	0.005	0.726
73	11						500.76	3.30	0.192	0.005	0.731
74	11						500.80	3.34	0.189	0.005	0.736
75	11						500.93	3.47	0.176	0.005	0.741
76	10						500.95	3.49	0.174	0.005	0.746
77	11						501.05	3.59	0.166	0.004	0.750
78	10						501.12	3.66	0.160	0.004	0.754
79	9						501.17	3.71	0.157	0.004	0.758
80	11						501.21	3.75	0.154	0.004	0.762
81	11						501.21	3.75	0.153	0.004	0.766
82	12						501.23	3.77	0.152	0.004	0.770
83	9						501.24	3.78	0.151	0.004	0.774
84	12						501.35	3.89	0.143	0.004	0.778
85	8						501.36	3.90	0.142	0.004	0.782
86	10						501.37	3.91	0.142	0.004	0.786
87	8						501.43	3.97	0.137	0.004	0.789
88	9						501.50	4.04	0.133	0.004	0.793
89	10						501.57	4.11	0.128	0.003	0.796
90	10						501.62	4.16	0.125	0.003	0.800

model average														
β	0.26	-0.51	-0.08		0.07	0.10	0.16		0.64	0.10	0.21	0.56	0.05	-0.66
variance	0.01	0.04	0.01		0.01	0.02	0.02		0.04	0.01	0.03	0.08	0.01	0.02
relative														
importance	1.00	0.99	0.51		0.47	0.50	0.74		1.00	0.59	0.80	0.91	0.41	1.00
95% CI	0.18	0.40	0.20		0.20	0.26	0.26		0.38	0.23	0.30	0.54	0.16	0.30

Table S3.35. Cyprus Wheatear summer incidence, intercorrelations model (a)

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights		
1	9																												204.33	0.00	1.000	0.096	0.096			
2	9																												204.87	0.54	0.762	0.074	0.170			
3	10																												204.97	0.65	0.724	0.070	0.240			
4	8																												205.03	0.70	0.703	0.068	0.308			
5	8																												205.68	1.35	0.510	0.049	0.357			
6	10																												205.70	1.38	0.503	0.048	0.405			
7	10																												206.18	1.86	0.395	0.038	0.443			
8	11																												206.26	1.93	0.381	0.037	0.480			
9	9																												206.34	2.02	0.365	0.035	0.515			
10	9																												206.47	2.14	0.343	0.033	0.549			
11	9																												206.73	2.40	0.301	0.029	0.578			
12	8																												206.75	2.42	0.298	0.029	0.606			
13	7																												206.99	2.66	0.264	0.025	0.632			
14	9																												207.24	2.91	0.233	0.023	0.654			
15	10																												207.29	2.96	0.228	0.022	0.676			
16	8																												207.67	3.34	0.188	0.018	0.694			
17	9																												207.71	3.38	0.185	0.018	0.712			
18	9																												207.72	3.40	0.183	0.018	0.730			
19	10																												207.73	3.40	0.183	0.018	0.747			
20	8																												207.93	3.60	0.165	0.016	0.763			
21	9																												208.07	3.74	0.154	0.015	0.778			
22	8																												208.10	3.77	0.152	0.015	0.793			
23	8																												208.46	4.13	0.127	0.012	0.805			
model average																																				
β		0.03	-0.11					-0.08							0.11						0.07	0.03		0.12			0.02	0.02	0.45							
variance		0.00	0.00					0.00							0.00						0.00	0.00		0.00			0.00	0.00	0.00							
relative																																				
importance		0.66	1.00					1.00							1.00						0.85	0.56		1.00			0.45	0.49	1.00							
95% CI		0.07	0.07					0.06							0.07						0.09	0.08		0.08			0.07	0.06	0.05							

Table S3.36. Cyprus Wheatear summer incidence, intercorrelations model (b)

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights			
1	11																												210.13	0.00	1.000	0.053	0.053				
2	10																												210.16	0.02	0.988	0.053	0.106				
3	12																												210.26	0.13	0.937	0.050	0.156				
4	11																												210.36	0.22	0.894	0.048	0.204				
5	10																												210.90	0.77	0.680	0.036	0.240				
6	11																												211.15	1.02	0.602	0.032	0.273				
7	11																												211.18	1.05	0.591	0.032	0.304				
8	10																												211.33	1.20	0.550	0.029	0.334				
9	11																												211.37	1.24	0.538	0.029	0.362				
10	10																												211.55	1.42	0.491	0.026	0.389				
11	9																												211.56	1.43	0.489	0.026	0.415				
12	9																												211.62	1.49	0.474	0.025	0.440				
13	10																												211.63	1.50	0.473	0.025	0.465				
14	10																												211.79	1.66	0.437	0.023	0.489				
15	10																												211.90	1.76	0.414	0.022	0.511				
16	9																												211.90	1.77	0.413	0.022	0.533				
17	10																												211.91	1.78	0.410	0.022	0.555				
18	9																												212.15	2.02	0.364	0.019	0.574				
19	10																												212.20	2.06	0.356	0.019	0.593				
20	9																												212.30	2.17	0.338	0.018	0.611				
21	9																												212.41	2.28	0.320	0.017	0.628				
22	11																												212.43	2.30	0.317	0.017	0.645				
23	10																												212.47	2.34	0.310	0.017	0.662				
24	10																												212.49	2.36	0.308	0.016	0.678				
25	10																												212.74	2.61	0.271	0.015	0.693				
26	9																												212.75	2.62	0.270	0.014	0.707				
27	8																												213.17	3.04	0.219	0.012	0.719				
28	9																												213.25	3.12	0.211	0.011	0.730				
29	8																												213.30	3.16	0.206	0.011	0.741				
30	9																												213.35	3.22	0.200	0.011	0.752				
31	9																												213.39	3.25	0.196	0.010	0.762				
32	8																												213.52	3.39	0.184	0.010	0.772				
33	8																												213.96	3.83	0.147	0.008	0.780				
model average																																					
β	0.05															0.18					0.10	0.12	0.06	0.05			0.14	0.02			0.06	0.03	0.45				
variance	0.00															0.00					0.00	0.00	0.00	0.00			0.00	0.00			0.00	0.00			0.00	0.00	0.00
relative																																					
importance	0.82															1.00					1.00	1.00	0.71	0.69			1.00	0.49			0.79	0.57	1.00				
95% CI	0.07															0.07					0.07	0.08	0.11	0.09			0.10	0.05			0.09	0.07	0.06				

Table S3.37. Cyprus Wheatear summer incidence, intercorrelations model (c)

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights		
1	8																												211.65	0.00	1.000	0.164	0.164			
2	7																												212.39	0.74	0.690	0.113	0.277			
3	9																												212.68	1.03	0.596	0.098	0.374			
4	9																												212.99	1.34	0.512	0.084	0.458			
5	8																												213.28	1.63	0.442	0.072	0.530			
6	8																												213.59	1.95	0.378	0.062	0.592			
7	10																												213.64	1.99	0.370	0.061	0.653			
8	9																												214.02	2.37	0.306	0.050	0.703			
9	7																												214.70	3.05	0.218	0.036	0.738			
10	8																												215.38	3.74	0.154	0.025	0.764			
11	7																												215.44	3.79	0.150	0.025	0.788			
12	8																												215.62	3.97	0.138	0.023	0.811			
13	9																												215.76	4.11	0.128	0.021	0.832			
model average																																				
β		0.01	-0.18						-0.11																											
variance		0.00	0.00						0.00																											
relative importance		0.38	1.00						1.00																											
95% CI		0.04	0.08						0.06																											

Table S3.38. Cyprus Wheatear summer incidence, intercorrelations model (d)

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights
1	11																												204.71	0.00	1.000	0.054	0.054	
2	10																												205.05	0.34	0.842	0.046	0.100	
3	11																												205.15	0.44	0.803	0.043	0.143	
4	12																												205.22	0.51	0.775	0.042	0.185	
5	10																												205.72	1.01	0.605	0.033	0.218	
6	9																												205.84	1.13	0.567	0.031	0.249	
7	10																												205.98	1.27	0.529	0.029	0.277	
8	11																												206.09	1.38	0.501	0.027	0.304	
9	10																												206.10	1.39	0.500	0.027	0.331	
10	9																												206.15	1.44	0.487	0.026	0.358	
11	10																												206.17	1.46	0.481	0.026	0.384	
12	11																												206.25	1.54	0.463	0.025	0.409	
13	10																												206.33	1.62	0.444	0.024	0.433	
14	10																												206.36	1.65	0.439	0.024	0.457	
15	9																												206.41	1.70	0.428	0.023	0.480	
16	10																												206.48	1.77	0.413	0.022	0.502	
17	11																												206.52	1.81	0.405	0.022	0.524	
18	11																												206.71	2.00	0.367	0.020	0.544	
19	10																												207.07	2.36	0.307	0.017	0.561	
20	9																												207.11	2.40	0.301	0.016	0.577	
21	9																												207.16	2.45	0.293	0.016	0.593	
22	10																												207.16	2.45	0.293	0.016	0.609	
23	9																												207.17	2.46	0.292	0.016	0.624	
24	10																												207.70	3.00	0.224	0.012	0.636	
25	8																												207.92	3.21	0.201	0.011	0.647	
26	9																												208.03	3.32	0.190	0.010	0.658	
27	8																												208.10	3.39	0.184	0.010	0.668	
28	8																												208.26	3.55	0.169	0.009	0.677	
29	10																												208.37	3.66	0.160	0.009	0.685	
30	9																												208.40	3.69	0.158	0.009	0.694	
31	9																												208.42	3.72	0.156	0.008	0.702	
32	10																												208.44	3.73	0.155	0.008	0.711	
33	9																												208.45	3.74	0.154	0.008	0.719	
34	9																												208.49	3.78	0.151	0.008	0.727	
35	9																												208.54	3.83	0.147	0.008	0.735	
36	8																												208.64	3.93	0.140	0.008	0.743	
37	9																												208.71	4.00	0.135	0.007	0.750	
38	10																												208.85	4.14	0.126	0.007	0.757	

model average												
β	0.04	0.18	0.08	0.08	0.06	0.05	0.15	0.02	0.04	0.04	0.45	
variance	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
relative												
importance	0.72	1.00	1.00	0.98	0.75	0.76	1.00	0.47	0.62	0.72	1.00	
95% CI	0.07	0.07	0.07	0.07	0.10	0.08	0.08	0.05	0.08	0.08	0.05	

Table S3.39. Zitting Cisticola summer abundance, \hat{p} as offset

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	Δ AICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights	
1	9																													267.98	0.00	1.000	0.230	0.230	
2	10																													269.94	1.96	0.375	0.086	0.317	
3	8																													270.11	2.13	0.345	0.079	0.396	
4	8																													270.36	2.38	0.303	0.070	0.466	
5	8																													270.54	2.57	0.277	0.064	0.530	
6	8																													271.53	3.55	0.170	0.039	0.569	
7	7																													271.82	3.84	0.147	0.034	0.603	
8	9																													271.95	3.97	0.137	0.032	0.634	
model average																																			
	β					0.42						0.42							0.27	-0.67		-0.92		-0.61		0.27		-1.99							
	variance					0.07						0.02							0.03	0.08		0.19		0.16		0.05		0.08							
	relative importance					0.88						1.00							0.86	1.00		1.00		0.86		0.78		1.00							
	95% CI					0.49						0.25							0.33	0.55		0.86		0.77		0.41		0.57							

Table S3.40. Zitting Cisticola summer incidence, \hat{p} as offset

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	Δ AICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights			
1	7																												182.16	0.00	1.000	0.227	0.227				
2	8																												183.11	0.94	0.623	0.142	0.369				
3	6																												183.90	1.74	0.419	0.095	0.464				
4	6																												184.45	2.28	0.319	0.073	0.536				
5	7																												184.47	2.31	0.316	0.072	0.608				
6	7																												184.69	2.53	0.282	0.064	0.672				
7	6																												185.89	3.73	0.155	0.035	0.707				
8	7																												185.93	3.77	0.152	0.035	0.742				
9	5																												186.10	3.93	0.140	0.032	0.774				
10	6																												186.20	4.04	0.133	0.030	0.804				
model average																																					
	β	-0.07				0.01																															
	variance	0.00				0.00																															
	relative importance	0.96				0.43																															
	95% CI	0.07				0.05																															

Table S3.41. Zitting Cisticola winter abundance

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights		
1	10																												297.13	0.00	1.000	0.121	0.121			
2	11				■									■											■	■	■	■		297.29	0.16	0.921	0.111	0.232		
3	10				■																								297.72	0.59	0.745	0.090	0.322			
4	9				■																								297.84	0.71	0.700	0.085	0.407			
5	10				■																								297.87	0.74	0.690	0.083	0.491			
6	9				■																								297.91	0.78	0.677	0.082	0.573			
7	9				■																								298.03	0.90	0.639	0.077	0.650			
8	8				■																								298.40	1.27	0.530	0.064	0.714			
9	9				■																								300.06	2.93	0.231	0.028	0.742			
10	10				■																								300.79	3.66	0.160	0.019	0.761			
11	8				■																								300.82	3.69	0.158	0.019	0.780			
12	8				■																								301.08	3.95	0.139	0.017	0.797			
model average																																				
	β				-0.15									0.56	0.48		-0.45																			
	variance				0.03									0.04	0.03		0.07																			
	relative importance				0.58									1.00	1.00		0.90																			
	95% CI				0.34									0.37	0.33		0.50																			

Table S3.42. Zitting Cisticola winter incidence, intercorrelations model (b)

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights			
1	10																													182.54	0.00	1.000	0.336	0.336			
2	9																													183.59	1.05	0.592	0.199	0.535			
3	11																													183.97	1.43	0.489	0.164	0.699			
4	10																													184.79	2.24	0.325	0.109	0.808			
model average																																					
	β				-0.08																																
	variance				0.00																																
	relative importance				1.00																																
	95% CI				0.06																																

Table S3.43. Zitting *Cisticola* winter incidence, intercorrelations model (d)

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights		
1	11																													182.47	0.00	1.000	0.141	0.141		
2	10																													182.54	0.07	0.967	0.136	0.277		
3	9																													183.59	1.11	0.573	0.081	0.357		
4	10																													183.78	1.31	0.520	0.073	0.431		
5	11																													183.97	1.50	0.473	0.067	0.497		
6	10																													183.99	1.52	0.468	0.066	0.563		
7	12																													184.07	1.60	0.450	0.063	0.626		
8	9																													184.62	2.15	0.342	0.048	0.674		
9	10																													184.79	2.31	0.315	0.044	0.719		
10	11																													185.03	2.56	0.279	0.039	0.758		
11	11																													185.35	2.88	0.237	0.033	0.791		
12	10																													185.64	3.16	0.206	0.029	0.820		
model average																																				
	β				-0.09							-0.03		0.09	0.10		-0.14																			
	variance				0.00							0.00		0.00	0.00		0.00																			
	relative importance				1.00							0.63		1.00	1.00		1.00																			
	95% CI				0.06							0.07		0.07	0.06		0.08																			

Table S3.44. Eastern Olivaceous Warbler summer abundance, $\hat{\rho}$ as offset

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	Δ AICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights		
1	13																													480.59	0.00	1.000	0.079	0.079		
2	12																														481.11	0.51	0.774	0.061	0.140	
3	12																														481.77	1.18	0.556	0.044	0.184	
4	11																														481.98	1.38	0.501	0.039	0.223	
5	12																														482.06	1.46	0.481	0.038	0.261	
6	11																														482.39	1.79	0.408	0.032	0.293	
7	10																														482.46	1.87	0.393	0.031	0.324	
8	11																														482.48	1.89	0.389	0.031	0.355	
9	12																														482.62	2.03	0.363	0.029	0.384	
10	11																														482.66	2.06	0.357	0.028	0.412	
11	12																														482.80	2.21	0.331	0.026	0.438	
12	11																														482.81	2.22	0.330	0.026	0.464	
13	12																														482.87	2.27	0.321	0.025	0.489	
14	12																														482.97	2.38	0.304	0.024	0.513	
15	11																														483.06	2.46	0.292	0.023	0.536	
16	11																														483.26	2.67	0.263	0.021	0.557	
17	11																														483.37	2.77	0.250	0.020	0.577	
18	10																														483.67	3.08	0.214	0.017	0.594	
19	11																														484.08	3.49	0.175	0.014	0.608	
20	10																														484.13	3.54	0.170	0.013	0.621	
21	10																														484.20	3.61	0.164	0.013	0.634	
22	11																														484.23	3.63	0.163	0.013	0.647	
23	10																														484.35	3.75	0.153	0.012	0.659	
24	11																														484.49	3.90	0.142	0.011	0.670	
25	10																														484.61	4.01	0.134	0.011	0.681	
model average																																				
β		0.10	-0.17	0.22				0.14	0.19		0.34	0.36						0.40						0.47		0.29	0.49	-0.66								
variance		0.01	0.02	0.02				0.01	0.02		0.01	0.02						0.07						0.02		0.04	0.01	0.02								
relative																																				
importance		0.57	0.77	0.85				0.80	0.76		1.00	1.00						0.88						1.00		0.82	1.00	1.00								
95% CI		0.21	0.27	0.27				0.20	0.30		0.19	0.25						0.50						0.26		0.40	0.18	0.28								

Table S3.45. Eastern Olivaceous Warbler summer incidence, \hat{p} as offset

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	Δ AICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights			
1	9																													203.53	0.00	1.000	0.280	0.280			
2	8																													204.05	0.53	0.768	0.215	0.495			
3	7																													205.14	1.61	0.446	0.125	0.620			
4	8																													205.72	2.20	0.333	0.093	0.714			
5	8																													205.89	2.36	0.307	0.086	0.799			
6	7																													206.68	3.15	0.207	0.058	0.857			
7	6																													207.64	4.12	0.128	0.036	0.893			
model average																																					
	β										0.10		0.05	0.12																							
	variance										0.00		0.00	0.00																							
	relative importance										1.00		0.80	1.00																							
	95% CI										0.06		0.07	0.06																							

Table S3.46. Spectacled Warbler winter incidence

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights		
1	8																												23.27	0.00	1.000	0.074	0.074			
2	7																													23.81	0.54	0.762	0.057	0.131		
3	9																													23.83	0.56	0.755	0.056	0.187		
4	10																													23.91	0.64	0.726	0.054	0.241		
5	9																													23.92	0.66	0.720	0.054	0.295		
6	8																													24.66	1.39	0.498	0.037	0.332		
7	8																													24.67	1.40	0.497	0.037	0.369		
8	9																													25.06	1.79	0.409	0.030	0.399		
9	9																													25.25	1.98	0.371	0.028	0.427		
10	8																													25.31	2.05	0.359	0.027	0.454		
11	7																													25.31	2.05	0.359	0.027	0.481		
12	8																													25.47	2.20	0.333	0.025	0.505		
13	7																													25.76	2.50	0.287	0.021	0.527		
14	8																													25.78	2.51	0.285	0.021	0.548		
15	8																													25.86	2.59	0.274	0.020	0.568		
16	9																													25.94	2.68	0.262	0.020	0.588		
17	7																													26.07	2.80	0.246	0.018	0.606		
18	9																													26.13	2.86	0.239	0.018	0.624		
19	6																													26.32	3.05	0.218	0.016	0.640		
20	8																													26.51	3.24	0.198	0.015	0.655		
21	7																													26.80	3.54	0.171	0.013	0.668		
22	6																													26.91	3.64	0.162	0.012	0.680		
23	8																													26.93	3.67	0.160	0.012	0.692		
24	7																													27.00	3.73	0.155	0.012	0.703		
25	8																													27.12	3.85	0.146	0.011	0.714		
26	7																													27.25	3.99	0.136	0.010	0.724		
model average																																				
β			0.02	0.01							-0.04	-0.06							-0.01	0.05	-0.04						0.03	0.08								
variance			0.00	0.00							0.00	0.00							0.00	0.00	0.00						0.00	0.00								
relative																																				
importance			0.65	0.44							0.88	1.00							0.50	0.98	0.90						0.79	1.00								
95% CI			0.05	0.03							0.04	0.04							0.04	0.05	0.04						0.04	0.03								

Table S3.47. Sardinian Warbler summer abundance

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights	
1	10																												643.46	0.00	1.000	0.151	0.151		
2	11																												643.57	0.12	0.944	0.142	0.293		
3	10																												643.86	0.40	0.817	0.123	0.416		
4	8																												644.40	0.94	0.625	0.094	0.510		
5	9																												644.41	0.95	0.622	0.094	0.603		
6	9																												644.47	1.02	0.602	0.091	0.694		
7	9																												644.47	1.02	0.602	0.091	0.785		
8	10																												645.06	1.61	0.448	0.067	0.852		
9	9																												647.62	4.17	0.125	0.019	0.871		
model average																																			
	β				-0.07	0.29						0.08	0.24			0.47				0.46			0.08		-0.50		1.20	0.05							
	variance				0.01	0.01						0.01	0.01			0.01				0.01			0.01		0.07		0.01	0.01							
	relative importance				0.54	1.00						0.60	1.00			1.00				1.00			0.49		0.98		1.00	1.00							
	95% CI				0.18	0.19						0.18	0.15			0.17				0.16			0.21		0.51		0.14	0.22							

Table S3.48. Sardinian Warbler summer incidence

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights
1	9																												142.99	0.00	1.000	0.055	0.055	
2	10					■																							143.06	0.07	0.966	0.053	0.109	
3	8																												143.34	0.35	0.839	0.046	0.155	
4	9					■																							143.34	0.36	0.837	0.046	0.201	
5	11					■																							143.52	0.53	0.767	0.042	0.244	
6	9					■																							144.08	1.09	0.579	0.032	0.276	
7	8																												144.14	1.15	0.561	0.031	0.307	
8	7																												144.20	1.21	0.547	0.030	0.337	
9	10																												144.50	1.51	0.470	0.026	0.363	
10	9					■																							144.93	1.94	0.379	0.021	0.384	
11	8																												144.93	1.94	0.378	0.021	0.405	
12	10					■																							145.01	2.03	0.363	0.020	0.425	
13	10																												145.02	2.03	0.362	0.020	0.445	
14	8																												145.07	2.08	0.354	0.020	0.465	
15	8																												145.12	2.13	0.345	0.019	0.484	
16	10																												145.16	2.18	0.337	0.019	0.503	
17	7					■																							145.23	2.24	0.326	0.018	0.521	
18	6																												145.24	2.25	0.325	0.018	0.539	
19	7																												145.27	2.28	0.319	0.018	0.556	
20	9																												145.33	2.34	0.310	0.017	0.573	
21	8					■																							145.43	2.44	0.295	0.016	0.590	
22	8																												145.90	2.91	0.233	0.013	0.603	
23	9																												145.90	2.92	0.233	0.013	0.616	
24	8					■																							145.95	2.96	0.228	0.013	0.628	
25	9					■																							146.04	3.05	0.218	0.012	0.640	
26	8																												146.09	3.10	0.212	0.012	0.652	
27	7																												146.26	3.27	0.195	0.011	0.663	
28	8					■																							146.48	3.49	0.174	0.010	0.672	
29	7																												146.52	3.53	0.171	0.009	0.682	
30	9																												146.61	3.62	0.164	0.009	0.691	
31	8																												146.65	3.66	0.160	0.009	0.700	
32	8																												146.69	3.70	0.157	0.009	0.709	
33	9																												146.69	3.70	0.157	0.009	0.717	
34	6																												146.74	3.75	0.154	0.008	0.726	
35	9																												146.77	3.78	0.151	0.008	0.734	
36	9					■																							147.04	4.05	0.132	0.007	0.741	
37	9																												147.05	4.06	0.132	0.007	0.749	
38	7																												147.08	4.09	0.129	0.007	0.756	
39	6																												147.14	4.15	0.126	0.007	0.763	
40	7																												147.14	4.15	0.125	0.007	0.770	

model average											
β	0.02	0.03	-0.01	0.04	0.07	-0.06	-0.04	0.06	0.35	0.47	
variance	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
relative											
importance	0.55	0.59	0.29	0.73	1.00	0.88	0.83	0.74	1.00	1.00	
95% CI	0.05	0.06	0.03	0.07	0.05	0.07	0.06	0.09	0.05	0.05	

Table S3.49. Sardinian Warbler winter abundance

Land-cover buffer scale: 0.5 km

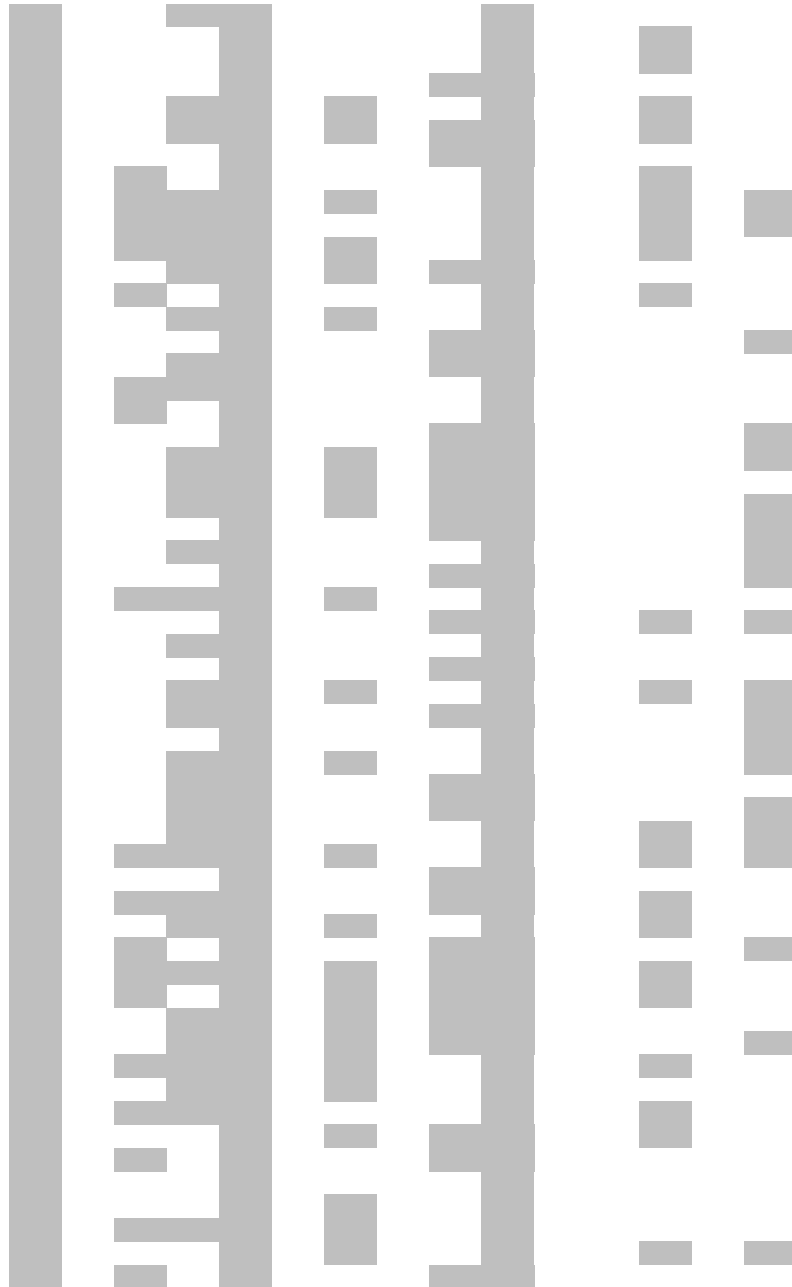
model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights		
1	8																													750.88	0.00	1.000	0.630	0.630		
2	7																													752.44	1.56	0.459	0.289	0.919		
model average																																				
	β									0.44						0.28	-0.27				0.13	-0.50						1.01	0.47							
	variance									0.01						0.01	0.01				0.01	0.02						0.01	0.01							
	relative importance									1.00						1.00	1.00				0.69	1.00						1.00	1.00							
	95% CI									0.21						0.16	0.20				0.23	0.28						0.16	0.19							

Table S3.50. Sardinian Warbler winter incidence

Land-cover buffer scale: 1.25 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights
1	7																												179.38	0.00	1.000	0.013	0.013	
2	8																												179.65	0.27	0.874	0.011	0.024	
3	8																												179.73	0.35	0.838	0.011	0.034	
4	9																												179.83	0.46	0.796	0.010	0.044	
5	9																												179.84	0.47	0.792	0.010	0.054	
6	8																												180.10	0.73	0.696	0.009	0.063	
7	9																												180.41	1.04	0.595	0.008	0.071	
8	10																												180.44	1.06	0.589	0.007	0.078	
9	8																												180.48	1.10	0.577	0.007	0.085	
10	11																												180.68	1.30	0.521	0.007	0.092	
11	10																												180.69	1.31	0.519	0.007	0.099	
12	10																												180.77	1.39	0.498	0.006	0.105	
13	8																												180.77	1.39	0.498	0.006	0.111	
14	9																												180.78	1.40	0.496	0.006	0.118	
15	8																												180.91	1.53	0.465	0.006	0.123	
16	9																												180.92	1.54	0.462	0.006	0.129	
17	7																												180.95	1.58	0.455	0.006	0.135	
18	9																												180.98	1.61	0.448	0.006	0.141	
19	6																												180.99	1.62	0.445	0.006	0.146	
20	8																												181.03	1.65	0.438	0.006	0.152	
21	10																												181.07	1.69	0.429	0.005	0.157	
22	10																												181.14	1.76	0.414	0.005	0.163	
23	8																												181.21	1.83	0.400	0.005	0.168	
24	9																												181.24	1.87	0.393	0.005	0.173	
25	9																												181.27	1.89	0.389	0.005	0.178	
26	9																												181.27	1.89	0.388	0.005	0.182	
27	8																												181.30	1.93	0.381	0.005	0.187	
28	9																												181.33	1.95	0.377	0.005	0.192	
29	10																												181.47	2.10	0.350	0.004	0.196	
30	9																												181.50	2.12	0.346	0.004	0.201	
31	9																												181.50	2.13	0.346	0.004	0.205	
32	10																												181.54	2.17	0.339	0.004	0.209	
33	10																												181.54	2.17	0.338	0.004	0.214	
34	9																												181.56	2.18	0.336	0.004	0.218	
35	9																												181.58	2.20	0.333	0.004	0.222	
36	8																												181.59	2.21	0.331	0.004	0.226	
37	9																												181.59	2.21	0.330	0.004	0.231	
38	9																												181.60	2.22	0.329	0.004	0.235	
39	10																												181.61	2.23	0.327	0.004	0.239	
40	9																												181.61	2.24	0.327	0.004	0.243	
41	10																												181.63	2.25	0.325	0.004	0.247	
42	10																												181.66	2.28	0.319	0.004	0.251	
43	9																												181.68	2.30	0.317	0.004	0.255	

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181.68	2.30	0.316	0.004	0.259
181.68	2.31	0.316	0.004	0.263
181.69	2.31	0.315	0.004	0.267
181.70	2.32	0.313	0.004	0.271
181.76	2.38	0.304	0.004	0.275
181.76	2.38	0.304	0.004	0.279
181.78	2.40	0.301	0.004	0.283
181.80	2.42	0.298	0.004	0.286
181.81	2.44	0.296	0.004	0.290
181.82	2.44	0.296	0.004	0.294
181.82	2.44	0.295	0.004	0.298
181.84	2.46	0.292	0.004	0.301
181.84	2.46	0.292	0.004	0.305
181.88	2.51	0.286	0.004	0.309
181.90	2.52	0.284	0.004	0.312
181.92	2.54	0.281	0.004	0.316
181.94	2.56	0.277	0.004	0.319
181.95	2.57	0.276	0.003	0.323
181.96	2.58	0.275	0.003	0.326
181.97	2.59	0.274	0.003	0.330
182.05	2.67	0.263	0.003	0.333
182.06	2.68	0.262	0.003	0.336
182.06	2.68	0.261	0.003	0.340
182.08	2.70	0.259	0.003	0.343
182.09	2.71	0.257	0.003	0.346
182.10	2.72	0.256	0.003	0.349
182.10	2.72	0.256	0.003	0.353
182.11	2.74	0.255	0.003	0.356
182.13	2.76	0.252	0.003	0.359
182.14	2.77	0.251	0.003	0.362
182.17	2.80	0.247	0.003	0.365
182.18	2.81	0.246	0.003	0.369
182.19	2.81	0.245	0.003	0.372
182.22	2.85	0.241	0.003	0.375
182.24	2.86	0.239	0.003	0.378
182.24	2.87	0.238	0.003	0.381
182.25	2.87	0.238	0.003	0.384
182.25	2.87	0.238	0.003	0.387
182.28	2.91	0.234	0.003	0.390
182.29	2.91	0.234	0.003	0.393
182.29	2.92	0.233	0.003	0.396
182.30	2.92	0.232	0.003	0.399
182.30	2.92	0.232	0.003	0.401
182.31	2.93	0.231	0.003	0.404
182.32	2.94	0.230	0.003	0.407
182.35	2.97	0.226	0.003	0.410
182.40	3.02	0.221	0.003	0.413
182.40	3.03	0.220	0.003	0.416
182.41	3.03	0.220	0.003	0.419
182.41	3.03	0.220	0.003	0.421
182.41	3.03	0.219	0.003	0.424
182.42	3.04	0.219	0.003	0.427
182.42	3.04	0.218	0.003	0.430
182.42	3.04	0.218	0.003	0.432
182.43	3.05	0.217	0.003	0.435

99	11						182.43	3.05	0.217	0.003	0.438
100	13						182.43	3.06	0.217	0.003	0.441
101	11						182.44	3.06	0.217	0.003	0.443
102	10						182.45	3.07	0.216	0.003	0.446
103	10						182.45	3.07	0.215	0.003	0.449
104	10						182.46	3.08	0.214	0.003	0.452
105	8						182.46	3.09	0.214	0.003	0.454
106	9						182.48	3.10	0.212	0.003	0.457
107	7						182.48	3.10	0.212	0.003	0.460
108	10						182.48	3.11	0.211	0.003	0.462
109	10						182.49	3.12	0.211	0.003	0.465
110	10						182.54	3.17	0.205	0.003	0.468
111	10						182.55	3.17	0.204	0.003	0.470
112	12						182.56	3.18	0.204	0.003	0.473
113	9						182.56	3.18	0.204	0.003	0.475
114	12						182.56	3.19	0.203	0.003	0.478
115	8						182.56	3.19	0.203	0.003	0.480
116	10						182.57	3.19	0.203	0.003	0.483
117	9						182.57	3.20	0.202	0.003	0.486
118	11						182.58	3.20	0.202	0.003	0.488
119	11						182.59	3.21	0.201	0.003	0.491
120	12						182.59	3.21	0.201	0.003	0.493
121	10						182.59	3.22	0.200	0.003	0.496
122	11						182.60	3.23	0.199	0.003	0.498
123	11						182.62	3.24	0.198	0.003	0.501
124	11						182.63	3.25	0.197	0.002	0.503
125	10						182.63	3.25	0.197	0.002	0.506
126	10						182.63	3.25	0.197	0.002	0.508
127	14						182.63	3.25	0.197	0.002	0.511
128	11						182.63	3.26	0.196	0.002	0.513
129	9						182.64	3.26	0.196	0.002	0.516
130	11						182.65	3.27	0.195	0.002	0.518
131	9						182.65	3.28	0.194	0.002	0.521
132	9						182.67	3.30	0.192	0.002	0.523
133	10						182.68	3.30	0.192	0.002	0.526
134	13						182.68	3.30	0.192	0.002	0.528
135	10						182.73	3.36	0.187	0.002	0.530
136	9						182.74	3.36	0.186	0.002	0.533
137	10						182.74	3.36	0.186	0.002	0.535
138	12						182.74	3.37	0.186	0.002	0.537
139	10						182.75	3.37	0.185	0.002	0.540
140	12						182.75	3.37	0.185	0.002	0.542
141	9						182.76	3.38	0.185	0.002	0.544
142	8						182.76	3.39	0.184	0.002	0.547
143	11						182.76	3.39	0.184	0.002	0.549
144	11						182.77	3.39	0.184	0.002	0.551
145	10						182.79	3.41	0.182	0.002	0.554
146	11						182.79	3.41	0.182	0.002	0.556
147	9						182.80	3.42	0.181	0.002	0.558
148	12						182.81	3.43	0.180	0.002	0.561
149	10						182.82	3.45	0.178	0.002	0.563
150	10						182.83	3.45	0.178	0.002	0.565
151	7						182.83	3.45	0.178	0.002	0.567
152	8						182.83	3.46	0.178	0.002	0.570
153	13						182.83	3.46	0.178	0.002	0.572

154	12						182.86	3.48	0.175	0.002	0.574
155	11						182.86	3.48	0.175	0.002	0.576
156	8						182.87	3.49	0.175	0.002	0.578
157	8						182.88	3.50	0.174	0.002	0.581
158	10						182.88	3.50	0.173	0.002	0.583
159	10						182.88	3.51	0.173	0.002	0.585
160	10						182.90	3.52	0.172	0.002	0.587
161	10						182.90	3.53	0.172	0.002	0.589
162	9						182.91	3.53	0.171	0.002	0.592
163	10						182.91	3.54	0.171	0.002	0.594
164	10						182.92	3.54	0.170	0.002	0.596
165	9						182.92	3.54	0.170	0.002	0.598
166	9						182.94	3.56	0.168	0.002	0.600
167	8						182.95	3.57	0.167	0.002	0.602
168	11						182.96	3.58	0.167	0.002	0.604
169	10						182.96	3.59	0.166	0.002	0.606
170	11						182.97	3.60	0.166	0.002	0.609
171	11						182.98	3.60	0.165	0.002	0.611
172	11						182.98	3.61	0.165	0.002	0.613
173	11						182.99	3.61	0.165	0.002	0.615
174	10						182.99	3.61	0.164	0.002	0.617
175	11						183.02	3.64	0.162	0.002	0.619
176	9						183.03	3.65	0.161	0.002	0.621
177	11						183.03	3.65	0.161	0.002	0.623
178	11						183.03	3.65	0.161	0.002	0.625
179	11						183.04	3.66	0.161	0.002	0.627
180	10						183.05	3.68	0.159	0.002	0.629
181	13						183.08	3.70	0.157	0.002	0.631
182	12						183.08	3.70	0.157	0.002	0.633
183	11						183.09	3.71	0.157	0.002	0.635
184	13						183.11	3.73	0.155	0.002	0.637
185	12						183.12	3.74	0.154	0.002	0.639
186	11						183.13	3.75	0.153	0.002	0.641
187	9						183.13	3.75	0.153	0.002	0.643
188	10						183.14	3.76	0.153	0.002	0.645
189	9						183.14	3.77	0.152	0.002	0.647
190	11						183.16	3.78	0.151	0.002	0.649
191	10						183.17	3.79	0.150	0.002	0.651
192	9						183.17	3.79	0.150	0.002	0.652
193	11						183.18	3.80	0.150	0.002	0.654
194	10						183.18	3.80	0.150	0.002	0.656
195	11						183.19	3.81	0.149	0.002	0.658
196	10						183.19	3.82	0.148	0.002	0.660
197	10						183.20	3.82	0.148	0.002	0.662
198	8						183.20	3.82	0.148	0.002	0.664
199	12						183.20	3.82	0.148	0.002	0.666
200	12						183.21	3.84	0.147	0.002	0.667
201	11						183.22	3.84	0.147	0.002	0.669
202	10						183.22	3.84	0.146	0.002	0.671
203	10						183.22	3.85	0.146	0.002	0.673
204	11						183.25	3.87	0.144	0.002	0.675
205	10						183.25	3.87	0.144	0.002	0.677
206	10						183.26	3.88	0.143	0.002	0.678
207	13						183.26	3.89	0.143	0.002	0.680
208	11						183.27	3.90	0.143	0.002	0.682

209	9														183.28	3.90	0.142	0.002	0.684
210	8														183.28	3.90	0.142	0.002	0.686
211	10														183.28	3.90	0.142	0.002	0.687
212	10														183.28	3.90	0.142	0.002	0.689
213	9														183.30	3.92	0.141	0.002	0.691
214	10														183.32	3.94	0.140	0.002	0.693
215	11														183.33	3.95	0.139	0.002	0.695
216	11														183.33	3.95	0.139	0.002	0.696
217	11														183.34	3.96	0.138	0.002	0.698
218	10														183.34	3.97	0.138	0.002	0.700
219	9														183.34	3.97	0.138	0.002	0.702
220	12														183.36	3.98	0.136	0.002	0.703
221	10														183.37	4.00	0.135	0.002	0.705
222	10														183.38	4.00	0.135	0.002	0.707
223	10														183.38	4.00	0.135	0.002	0.708
224	9														183.38	4.00	0.135	0.002	0.710
225	9														183.41	4.03	0.133	0.002	0.712
226	10														183.42	4.05	0.132	0.002	0.714
227	11														183.43	4.06	0.132	0.002	0.715
228	9														183.44	4.06	0.131	0.002	0.717
229	11														183.45	4.08	0.130	0.002	0.718
230	11														183.45	4.08	0.130	0.002	0.720
231	12														183.46	4.08	0.130	0.002	0.722
232	9														183.46	4.08	0.130	0.002	0.723
233	10														183.47	4.09	0.129	0.002	0.725
234	11														183.47	4.10	0.129	0.002	0.727
235	11														183.47	4.10	0.129	0.002	0.728
236	10														183.48	4.10	0.129	0.002	0.730
237	11														183.48	4.11	0.128	0.002	0.732
238	12														183.49	4.12	0.128	0.002	0.733
239	10														183.50	4.12	0.127	0.002	0.735
240	12														183.51	4.13	0.127	0.002	0.736
241	8														183.53	4.15	0.126	0.002	0.738
242	10														183.54	4.16	0.125	0.002	0.740

model average

β	0.01	0.02	-0.01	0.07	-0.01	0.03	0.12	-0.02	0.02	0.10	-0.03	0.01	0.26	0.56
variance	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
relative														
importance	0.29	0.36	0.36	1.00	0.41	0.54	1.00	0.41	0.38	1.00	0.57	0.30	1.00	1.00
95% CI	0.03	0.06	0.05	0.06	0.04	0.06	0.07	0.06	0.06	0.07	0.07	0.03	0.06	0.05

Table S3.51. Cyprus Warbler summer abundance

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights	
1	11																													480.11	0.00	1.000	0.214	0.214	
2	10																													480.89	0.78	0.677	0.145	0.359	
3	10																													482.48	2.36	0.307	0.066	0.425	
4	10																													482.51	2.40	0.302	0.065	0.489	
5	9																													482.58	2.47	0.291	0.062	0.551	
6	10																													482.76	2.64	0.267	0.057	0.609	
7	9																													483.27	3.16	0.206	0.044	0.653	
8	9																													483.28	3.16	0.206	0.044	0.697	
model average																																			
	β						-0.36				0.36			0.27						-0.37	1.18			-0.39	0.08		0.44	0.54	-0.86						
	variance						0.06				0.02			0.03						0.02	0.05			0.02	0.01		0.10	0.01	0.03						
	relative importance						0.84				1.00			0.85						1.00	1.00			1.00	0.58		0.82	1.00	1.00						
	95% CI						0.45				0.28			0.33						0.27	0.46			0.27	0.19		0.61	0.22	0.36						

Table S3.52. Cyprus Warbler summer incidence, intercorrelation model (b)

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights
1	9																												215.25	0.00	1.000	0.310	0.310	
2	8						■				■						■		■										215.93	0.68	0.711	0.220	0.530	
3	8																		■										216.47	1.22	0.543	0.168	0.698	
4	7																												217.68	2.43	0.297	0.092	0.790	
5	8						■																		■				217.85	2.60	0.272	0.084	0.874	
6	7						■				■																		219.16	3.92	0.141	0.044	0.918	
7	7										■								■		■								219.34	4.10	0.129	0.040	0.958	
model average																																		
	β						-0.04				0.10						0.12		-0.03		0.12							0.05		0.13	0.35			
	variance						0.00				0.00						0.00		0.00		0.00							0.00		0.00	0.00			
	relative importance						0.69				1.00						1.00		0.63		1.00							0.82		1.00	1.00			
	95% CI						0.07				0.06						0.06		0.07		0.06							0.07		0.06	0.06			

Table S3.53. Cyprus Warbler summer incidence, intercorrelation model (d)

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights		
1	10																													214.36	0.00	1.000	0.122	0.122		
2	9																													215.25	0.88	0.643	0.079	0.201		
3	11																													215.51	1.14	0.564	0.069	0.270		
4	9																													215.53	1.17	0.558	0.068	0.339		
5	9																													215.77	1.40	0.496	0.061	0.399		
6	8																													215.93	1.57	0.457	0.056	0.455		
7	9																													216.26	1.90	0.386	0.047	0.503		
8	8																													216.47	2.10	0.349	0.043	0.546		
9	10																													216.93	2.56	0.278	0.034	0.580		
10	10																													216.97	2.60	0.272	0.033	0.613		
11	10																													217.14	2.78	0.249	0.030	0.643		
12	10																													217.18	2.81	0.245	0.030	0.673		
13	8																													217.52	3.16	0.206	0.025	0.699		
14	8																													217.67	3.31	0.191	0.023	0.722		
15	7																													217.68	3.31	0.191	0.023	0.745		
16	9																													217.72	3.36	0.187	0.023	0.768		
17	8																													217.85	3.49	0.175	0.021	0.790		
18	9																													218.32	3.96	0.138	0.017	0.807		
19	8																													218.42	4.06	0.132	0.016	0.823		
model average																																				
	β						-0.04			0.10							0.11		-0.04		0.14			-0.04	0.05		0.01	0.13	0.35							
	variance						0.00			0.00							0.00		0.00		0.00			0.00	0.00		0.00	0.00	0.00							
	relative																																			
	importance						0.72			1.00							1.00		0.71		1.00			0.64	0.83		0.29	1.00	1.00							
	95% CI						0.07			0.07							0.06		0.07		0.08			0.08	0.07		0.04	0.06	0.06							

Table S3.54. Cyprus Warbler winter abundance, intercorrelations model (b)

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights	
1	11																												639.06	0.00	1.000	0.271	0.271		
2	10																												639.81	0.75	0.687	0.186	0.457		
3	10																												641.81	2.75	0.253	0.068	0.525		
4	10																												642.35	3.29	0.193	0.052	0.578		
5	9																												642.67	3.61	0.165	0.045	0.622		
6	9																												643.12	4.06	0.132	0.036	0.658		
model average																																			
	β	0.23						-0.20			0.34						0.25			0.18	0.49		-0.45		0.18			0.42	0.07						
	variance	0.02						0.04			0.01						0.01			0.02	0.02		0.04		0.01			0.01	0.01						
	relative importance	0.87						0.65			1.00						1.00			0.77	1.00		1.00		1.00			1.00	1.00						
	95% CI	0.27						0.41			0.21						0.20			0.26	0.27		0.37		0.16			0.18	0.22						

Table S3.55. Cyprus Warbler winter abundance, intercorrelations model (c)

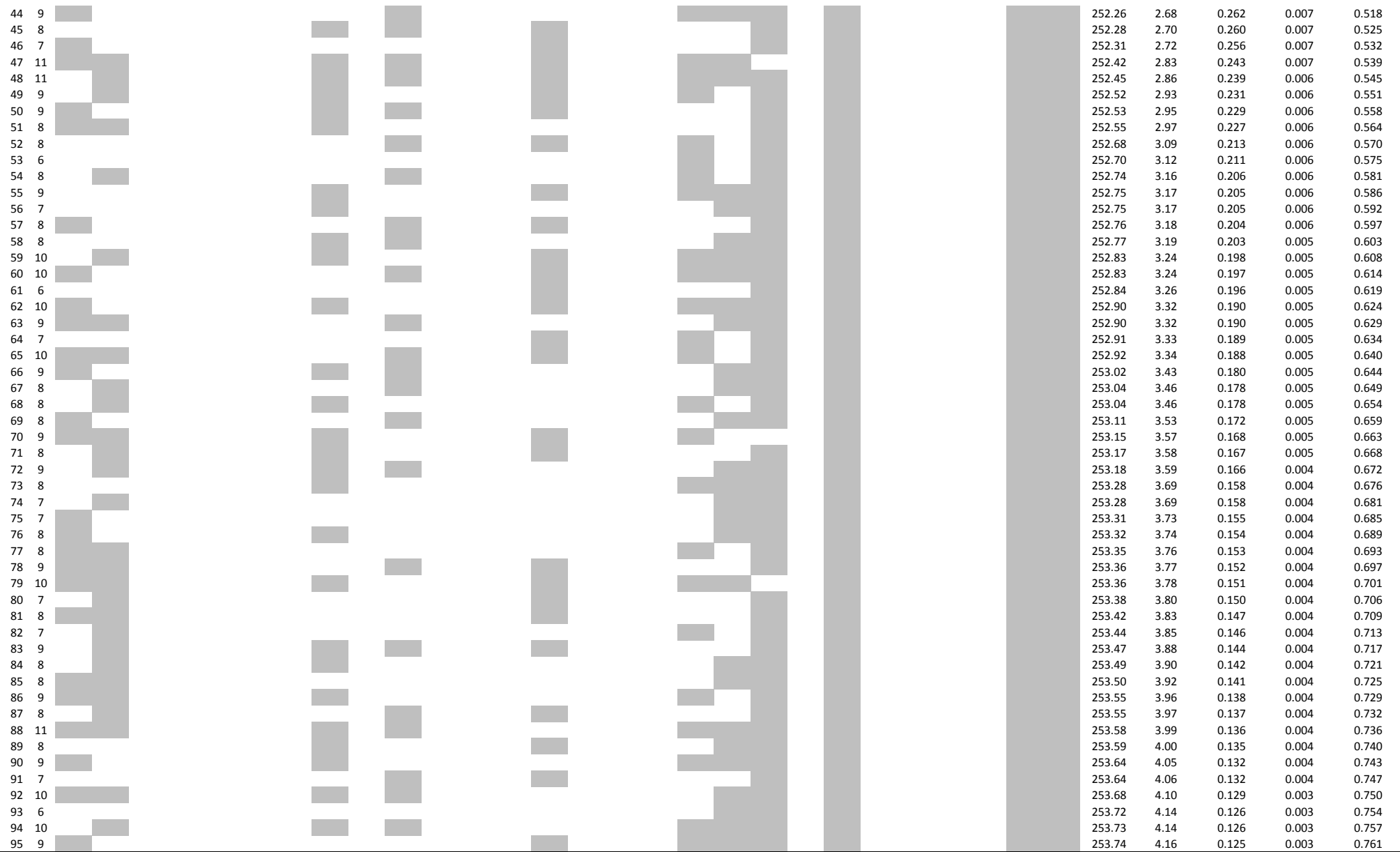
Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights
1	12																												636.93	0.00	1.000	0.182	0.182	
2	11																												637.33	0.40	0.820	0.150	0.332	
3	11																												638.90	1.97	0.374	0.068	0.400	
4	11																												639.06	2.13	0.345	0.063	0.463	
5	11																												639.14	2.20	0.332	0.061	0.524	
6	10																												639.33	2.39	0.302	0.055	0.579	
7	10																												639.46	2.52	0.284	0.052	0.631	
8	10																												639.81	2.88	0.237	0.043	0.674	
9	10																												641.02	4.09	0.130	0.024	0.698	
10	9																												641.08	4.14	0.126	0.023	0.721	
model average																																		
	β	0.19						-0.17		0.33						-0.28	0.41			0.15	0.45		-0.48		0.18			0.42	0.05					
	variance	0.02						0.04		0.01						0.03	0.02			0.02	0.02		0.04		0.01		0.01	0.01						
	relative importance	0.78						0.59		1.00						0.85	1.00			0.73	1.00		1.00		1.00		1.00	1.00						
	95% CI	0.28						0.39		0.21						0.35	0.28			0.25	0.27		0.37		0.15		0.18	0.22						

Table S3.56. Cyprus Warbler winter incidence

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights
1	9																												249.59	0.00	1.000	0.027	0.027	
2	8																												249.84	0.25	0.881	0.024	0.051	
3	12																												249.87	0.28	0.869	0.024	0.074	
4	10																												249.91	0.33	0.849	0.023	0.097	
5	8																												250.26	0.68	0.713	0.019	0.117	
6	9																												250.27	0.69	0.710	0.019	0.136	
7	6																												250.86	1.28	0.528	0.014	0.150	
8	11																												250.88	1.30	0.523	0.014	0.164	
9	9																												250.92	1.34	0.512	0.014	0.178	
10	11																												250.93	1.34	0.511	0.014	0.192	
11	8																												250.93	1.35	0.510	0.014	0.206	
12	7																												250.96	1.38	0.503	0.014	0.219	
13	9																												251.11	1.52	0.467	0.013	0.232	
14	8																												251.22	1.64	0.441	0.012	0.244	
15	7																												251.28	1.69	0.429	0.012	0.256	
16	7																												251.32	1.74	0.420	0.011	0.267	
17	8																												251.40	1.82	0.403	0.011	0.278	
18	6																												251.44	1.85	0.396	0.011	0.289	
19	7																												251.44	1.86	0.395	0.011	0.299	
20	7																												251.56	1.98	0.372	0.010	0.309	
21	10																												251.58	1.99	0.369	0.010	0.319	
22	10																												251.58	2.00	0.368	0.010	0.329	
23	8																												251.60	2.01	0.365	0.010	0.339	
24	7																												251.61	2.02	0.364	0.010	0.349	
25	6																												251.64	2.05	0.359	0.010	0.359	
26	8																												251.64	2.05	0.358	0.010	0.368	
27	9																												251.74	2.15	0.341	0.009	0.378	
28	11																												251.74	2.16	0.340	0.009	0.387	
29	7																												251.76	2.17	0.337	0.009	0.396	
30	7																												251.82	2.24	0.327	0.009	0.405	
31	7																												251.83	2.24	0.326	0.009	0.414	
32	9																												251.84	2.25	0.324	0.009	0.422	
33	5																												251.84	2.26	0.323	0.009	0.431	
34	9																												251.86	2.27	0.321	0.009	0.440	
35	8																												251.87	2.29	0.319	0.009	0.449	
36	10																												251.89	2.31	0.315	0.009	0.457	
37	7																												251.97	2.39	0.303	0.008	0.465	
38	10																												252.04	2.45	0.293	0.008	0.473	
39	9																												252.10	2.52	0.284	0.008	0.481	
40	8																												252.12	2.53	0.282	0.008	0.489	
41	10																												252.13	2.54	0.280	0.008	0.496	
42	10																												252.15	2.57	0.277	0.008	0.504	
43	6																												252.16	2.57	0.277	0.007	0.511	



model average

β -0.03 -0.01 -0.04 0.03 -0.03 -0.05 -0.01 0.10 -0.11 0.17 0.50

variance	0.00	0.00										
relative			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
importance	0.56	0.39	0.65	0.59	0.44	0.60	0.27	0.97	1.00	1.00	1.00	1.00
95% CI	0.07	0.07	0.09	0.08	0.08	0.10	0.04	0.08	0.09	0.07	0.06	0.06

Table S3.57. Spotted Flycatcher summer abundance

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights			
1	8	■																												159.65	0.00	1.000	0.510	0.510			
2	9										■			■																	161.63	1.98	0.372	0.190	0.700		
3	7										■						■														162.92	3.27	0.195	0.099	0.800		
model average																																					
β	1.00										-1.17		0.76																								
variance	0.04										0.14		0.17																								
relative importance	1.00										1.00		0.88																								
95% CI	0.41										0.73		0.76																								

Table S3.58. Spotted Flycatcher incidence

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights		
1	7	█																												70.69	0.00	1.000	0.286	0.286		
2	8									█							█													71.64	0.95	0.623	0.178	0.464		
3	6																													72.34	1.65	0.438	0.125	0.590		
4	7																													73.39	2.70	0.260	0.074	0.664		
5	5																													73.72	3.03	0.220	0.063	0.727		
6	6																													74.01	3.32	0.191	0.055	0.782		
7	7																													74.06	3.37	0.185	0.053	0.835		
8	6																													74.07	3.38	0.185	0.053	0.887		
model average																																				
	β	0.06									-0.03						-0.07																			
	variance	0.00									0.00						0.00																			
	relative importance	1.00									0.75						1.00																			
	95% CI	0.04									0.05						0.05																			

Table S3.59. Masked Shrike summer abundance

Land-cover buffer scale: 1.25 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights	
1	11																													175.32	0.00	1.000	0.013	0.013	
2	10																														175.69	0.37	0.829	0.011	0.024
3	8																														175.80	0.49	0.784	0.010	0.035
4	10																														175.87	0.56	0.757	0.010	0.044
5	9																														175.88	0.56	0.755	0.010	0.054
6	10																														175.94	0.62	0.732	0.010	0.064
7	12																														175.99	0.67	0.716	0.009	0.074
8	8																														176.27	0.95	0.622	0.008	0.082
9	7																														176.27	0.95	0.621	0.008	0.090
10	11																														176.31	1.00	0.608	0.008	0.098
11	12																														176.33	1.01	0.603	0.008	0.106
12	11																														176.51	1.19	0.550	0.007	0.113
13	9																														176.54	1.22	0.544	0.007	0.120
14	11																														176.56	1.24	0.538	0.007	0.128
15	11																														176.61	1.29	0.524	0.007	0.134
16	9																														176.76	1.44	0.486	0.006	0.141
17	9																														176.88	1.56	0.458	0.006	0.147
18	8																														176.88	1.57	0.457	0.006	0.153
19	9																														176.89	1.57	0.457	0.006	0.159
20	9																														176.89	1.58	0.455	0.006	0.165
21	9																														176.94	1.62	0.444	0.006	0.171
22	9																														176.98	1.66	0.436	0.006	0.177
23	9																														177.10	1.78	0.411	0.005	0.182
24	10																														177.11	1.79	0.408	0.005	0.187
25	10																														177.11	1.79	0.408	0.005	0.193
26	8																														177.18	1.86	0.394	0.005	0.198
27	10																														177.24	1.92	0.382	0.005	0.203
28	11																														177.25	1.93	0.381	0.005	0.208
29	8																														177.27	1.95	0.376	0.005	0.213
30	12																														177.28	1.97	0.374	0.005	0.218
31	11																														177.30	1.99	0.371	0.005	0.223
32	13																														177.31	2.00	0.369	0.005	0.228
33	10																														177.32	2.00	0.368	0.005	0.233
34	12																														177.33	2.01	0.366	0.005	0.237
35	10																														177.35	2.04	0.361	0.005	0.242
36	10																														177.35	2.04	0.361	0.005	0.247
37	10																														177.40	2.09	0.352	0.005	0.252
38	9																														177.41	2.09	0.352	0.005	0.256
39	11																														177.42	2.10	0.350	0.005	0.261
40	11																														177.49	2.17	0.338	0.004	0.265
41	13																														177.53	2.21	0.331	0.004	0.270
42	9																														177.55	2.24	0.327	0.004	0.274
43	10																														177.56	2.24	0.327	0.004	0.278

44	10									177.56	2.25	0.325	0.004	0.283
45	8									177.58	2.27	0.322	0.004	0.287
46	10									177.59	2.27	0.321	0.004	0.291
47	10									177.62	2.30	0.317	0.004	0.295
48	12									177.62	2.31	0.316	0.004	0.299
49	8									177.64	2.33	0.313	0.004	0.304
50	9									177.66	2.34	0.310	0.004	0.308
51	9									177.70	2.38	0.304	0.004	0.312
52	7									177.71	2.40	0.302	0.004	0.316
53	9									177.74	2.42	0.298	0.004	0.320
54	12									177.77	2.45	0.294	0.004	0.323
55	9									177.77	2.45	0.293	0.004	0.327
56	13									177.77	2.45	0.293	0.004	0.331
57	9									177.79	2.47	0.290	0.004	0.335
58	7									177.79	2.47	0.290	0.004	0.339
59	10									177.79	2.47	0.290	0.004	0.343
60	10									177.83	2.52	0.284	0.004	0.346
61	11									177.89	2.57	0.276	0.004	0.350
62	14									177.90	2.58	0.275	0.004	0.354
63	9									177.92	2.60	0.273	0.004	0.357
64	7									177.93	2.61	0.271	0.004	0.361
65	9									177.96	2.64	0.267	0.004	0.364
66	12									177.97	2.65	0.266	0.004	0.368
67	8									177.97	2.66	0.265	0.003	0.371
68	8									178.01	2.69	0.261	0.003	0.375
69	9									178.04	2.73	0.256	0.003	0.378
70	8									178.04	2.73	0.256	0.003	0.382
71	11									178.08	2.76	0.251	0.003	0.385
72	12									178.08	2.77	0.251	0.003	0.388
73	8									178.11	2.79	0.248	0.003	0.392
74	7									178.11	2.79	0.247	0.003	0.395
75	13									178.13	2.82	0.245	0.003	0.398
76	10									178.16	2.85	0.241	0.003	0.401
77	12									178.17	2.85	0.240	0.003	0.404
78	10									178.18	2.86	0.239	0.003	0.408
79	11									178.20	2.88	0.237	0.003	0.411
80	9									178.25	2.93	0.231	0.003	0.414
81	8									178.26	2.94	0.230	0.003	0.417
82	10									178.29	2.97	0.227	0.003	0.420
83	11									178.31	2.99	0.224	0.003	0.423
84	6									178.34	3.02	0.221	0.003	0.426
85	10									178.36	3.04	0.218	0.003	0.428
86	12									178.37	3.06	0.217	0.003	0.431
87	10									178.39	3.08	0.215	0.003	0.434
88	13									178.41	3.09	0.213	0.003	0.437
89	11									178.41	3.10	0.213	0.003	0.440
90	9									178.42	3.11	0.212	0.003	0.443
91	10									178.44	3.12	0.210	0.003	0.445
92	5									178.45	3.13	0.209	0.003	0.448
93	10									178.47	3.16	0.206	0.003	0.451
94	6									178.48	3.17	0.205	0.003	0.454
95	8									178.48	3.17	0.205	0.003	0.456
96	10									178.50	3.18	0.204	0.003	0.459
97	9									178.50	3.19	0.203	0.003	0.462
98	12									178.51	3.20	0.202	0.003	0.464

99	7										178.51	3.20	0.202	0.003	0.467
100	11										178.52	3.20	0.202	0.003	0.470
101	9										178.53	3.21	0.201	0.003	0.472
102	10										178.53	3.22	0.200	0.003	0.475
103	10										178.54	3.22	0.200	0.003	0.478
104	10										178.56	3.25	0.197	0.003	0.480
105	10										178.60	3.28	0.194	0.003	0.483
106	11										178.61	3.29	0.193	0.003	0.485
107	11										178.63	3.32	0.191	0.003	0.488
108	11										178.65	3.33	0.189	0.002	0.490
109	9										178.66	3.34	0.188	0.002	0.493
110	8										178.67	3.35	0.187	0.002	0.495
111	10										178.67	3.35	0.187	0.002	0.498
112	11										178.69	3.38	0.185	0.002	0.500
113	11										178.70	3.38	0.184	0.002	0.503
114	8										178.70	3.38	0.184	0.002	0.505
115	9										178.71	3.40	0.183	0.002	0.507
116	13										178.73	3.41	0.182	0.002	0.510
117	8										178.74	3.42	0.181	0.002	0.512
118	6										178.74	3.43	0.180	0.002	0.515
119	8										178.75	3.43	0.180	0.002	0.517
120	10										178.75	3.43	0.180	0.002	0.519
121	9										178.75	3.43	0.180	0.002	0.522
122	10										178.76	3.44	0.179	0.002	0.524
123	6										178.77	3.45	0.178	0.002	0.526
124	11										178.78	3.46	0.177	0.002	0.529
125	10										178.78	3.46	0.177	0.002	0.531
126	7										178.80	3.48	0.176	0.002	0.533
127	10										178.80	3.48	0.175	0.002	0.536
128	11										178.81	3.49	0.175	0.002	0.538
129	10										178.84	3.52	0.172	0.002	0.540
130	7										178.84	3.52	0.172	0.002	0.543
131	11										178.84	3.52	0.172	0.002	0.545
132	8										178.86	3.54	0.170	0.002	0.547
133	10										178.86	3.55	0.170	0.002	0.549
134	9										178.88	3.56	0.168	0.002	0.552
135	11										178.90	3.58	0.167	0.002	0.554
136	11										178.93	3.61	0.164	0.002	0.556
137	11										178.96	3.64	0.162	0.002	0.558
138	12										178.96	3.65	0.162	0.002	0.560
139	11										178.99	3.67	0.159	0.002	0.562
140	9										179.00	3.68	0.159	0.002	0.564
141	11										179.00	3.68	0.159	0.002	0.567
142	7										179.00	3.68	0.159	0.002	0.569
143	8										179.02	3.71	0.157	0.002	0.571
144	8										179.04	3.72	0.156	0.002	0.573
145	7										179.04	3.72	0.156	0.002	0.575
146	12										179.04	3.72	0.155	0.002	0.577
147	11										179.04	3.73	0.155	0.002	0.579
148	12										179.05	3.73	0.155	0.002	0.581
149	11										179.05	3.73	0.155	0.002	0.583
150	11										179.10	3.78	0.151	0.002	0.585
151	10										179.10	3.78	0.151	0.002	0.587
152	11										179.10	3.78	0.151	0.002	0.589
153	10										179.10	3.79	0.151	0.002	0.591

154	9										179.13	3.81	0.149	0.002	0.593
155	10										179.15	3.83	0.147	0.002	0.595
156	9										179.15	3.84	0.147	0.002	0.597
157	7										179.16	3.84	0.147	0.002	0.599
158	11										179.16	3.84	0.146	0.002	0.601
159	10										179.16	3.84	0.146	0.002	0.603
160	9										179.18	3.86	0.145	0.002	0.605
161	12										179.19	3.88	0.144	0.002	0.606
162	9										179.20	3.88	0.144	0.002	0.608
163	10										179.20	3.89	0.143	0.002	0.610
164	12										179.21	3.89	0.143	0.002	0.612
165	9										179.21	3.89	0.143	0.002	0.614
166	10										179.22	3.90	0.142	0.002	0.616
167	8										179.23	3.91	0.142	0.002	0.618
168	6										179.23	3.91	0.142	0.002	0.620
169	11										179.23	3.91	0.142	0.002	0.621
170	10										179.23	3.91	0.141	0.002	0.623
171	8										179.24	3.92	0.141	0.002	0.625
172	9										179.24	3.93	0.140	0.002	0.627
173	8										179.25	3.93	0.140	0.002	0.629
174	10										179.26	3.94	0.139	0.002	0.631
175	12										179.26	3.94	0.139	0.002	0.633
176	10										179.27	3.96	0.138	0.002	0.634
177	10										179.29	3.97	0.137	0.002	0.636
178	10										179.31	3.99	0.136	0.002	0.638
179	9										179.31	3.99	0.136	0.002	0.640
180	7										179.32	4.00	0.135	0.002	0.642
181	10										179.35	4.03	0.133	0.002	0.643
182	10										179.35	4.03	0.133	0.002	0.645
183	8										179.36	4.04	0.133	0.002	0.647
184	9										179.36	4.05	0.132	0.002	0.649
185	8										179.37	4.06	0.132	0.002	0.650
186	11										179.39	4.07	0.131	0.002	0.652
187	8										179.39	4.07	0.130	0.002	0.654
188	9										179.39	4.07	0.130	0.002	0.655
189	11										179.39	4.08	0.130	0.002	0.657
190	11										179.40	4.08	0.130	0.002	0.659
191	8										179.41	4.09	0.130	0.002	0.661
192	12										179.41	4.09	0.129	0.002	0.662
193	6										179.41	4.09	0.129	0.002	0.664
194	10										179.41	4.09	0.129	0.002	0.666
195	9										179.42	4.10	0.129	0.002	0.667
196	11										179.43	4.12	0.128	0.002	0.669
197	6										179.44	4.13	0.127	0.002	0.671
198	10										179.45	4.13	0.127	0.002	0.672
199	10										179.48	4.17	0.125	0.002	0.674

model average													
β	-0.38	0.71	0.13	0.44	1.16	-0.08	0.47	-0.23	0.48	1.03	0.90	0.10	-3.16
variance	0.15	0.28	0.07	0.11	0.21	0.07	0.32	0.15	0.29	0.13	0.21	0.03	0.33
relative													
importance	0.63	0.83	0.34	0.83	1.00	0.26	0.54	0.39	0.62	1.00	0.93	0.38	1.00
95% CI	0.76	1.00	0.45	0.63	0.89	0.37	1.08	0.69	1.04	0.70	0.87	0.32	1.11

Table S3.60. Masked Shrike summer incidence

Land-cover buffer scale: 1 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights		
1	7																													69.34	0.00	1.000	0.103	0.103		
2	8																														69.68	0.34	0.843	0.087	0.190	
3	8																														70.39	1.05	0.593	0.061	0.251	
4	9																														70.73	1.39	0.499	0.051	0.303	
5	7																														71.15	1.81	0.405	0.042	0.345	
6	6																														71.37	2.03	0.362	0.037	0.382	
7	7																														71.58	2.24	0.327	0.034	0.416	
8	6																														71.97	2.63	0.268	0.028	0.443	
9	8																														72.00	2.66	0.264	0.027	0.471	
10	6																														72.14	2.81	0.246	0.025	0.496	
11	7																														72.17	2.83	0.243	0.025	0.521	
12	7																														72.38	3.04	0.219	0.023	0.544	
13	5																														72.43	3.09	0.214	0.022	0.566	
14	6																														72.55	3.21	0.201	0.021	0.586	
15	6																														72.62	3.28	0.194	0.020	0.606	
16	6																														72.72	3.38	0.185	0.019	0.626	
17	8																														72.74	3.40	0.183	0.019	0.644	
18	7																														72.74	3.40	0.183	0.019	0.663	
19	6																														72.75	3.42	0.181	0.019	0.682	
20	7																														72.78	3.44	0.179	0.018	0.700	
21	8																														73.19	3.85	0.146	0.015	0.715	
22	7																														73.28	3.94	0.139	0.014	0.730	
23	5																														73.41	4.07	0.130	0.013	0.743	
24	7																														73.44	4.11	0.128	0.013	0.757	
25	8																														73.49	4.15	0.126	0.013	0.770	
model average																																				
	β				0.04			0.01			0.01												-0.04		0.09		0.04		0.04	0.10						
	variance				0.00			0.00			0.00												0.00		0.00		0.00		0.00	0.00						
	relative importance				0.80			0.42			0.46												0.78		1.00		0.82		0.84	1.00						
	95% CI				0.05			0.03			0.04												0.06		0.06		0.06		0.05	0.04						

Table S3.61. Sparrows summer abundance

Land-cover buffer scale: 0.75 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights
1	10																												1316.36	0.00	1.000	0.059	0.059	
2	9																												1316.38	0.02	0.988	0.058	0.117	
3	7																												1316.51	0.16	0.925	0.055	0.172	
4	11																												1316.56	0.20	0.904	0.053	0.225	
5	8																												1317.12	0.76	0.684	0.040	0.266	
6	10																												1317.20	0.85	0.655	0.039	0.304	
7	9																												1317.47	1.11	0.574	0.034	0.338	
8	8																												1317.51	1.15	0.562	0.033	0.371	
9	10																												1317.51	1.16	0.561	0.033	0.404	
10	8																												1317.65	1.29	0.525	0.031	0.435	
11	8																												1317.66	1.30	0.522	0.031	0.466	
12	9																												1317.76	1.40	0.496	0.029	0.495	
13	6																												1317.96	1.60	0.450	0.027	0.522	
14	8																												1318.02	1.66	0.436	0.026	0.548	
15	9																												1318.04	1.68	0.431	0.025	0.573	
16	7																												1318.10	1.74	0.420	0.025	0.598	
17	9																												1318.16	1.80	0.406	0.024	0.622	
18	10																												1318.33	1.97	0.373	0.022	0.644	
19	9																												1318.39	2.03	0.362	0.021	0.665	
20	8																												1318.81	2.45	0.294	0.017	0.683	
21	9																												1318.85	2.50	0.287	0.017	0.700	
22	9																												1318.87	2.51	0.285	0.017	0.716	
23	7																												1318.96	2.60	0.273	0.016	0.732	
24	7																												1318.99	2.63	0.269	0.016	0.748	
25	9																												1319.26	2.90	0.235	0.014	0.762	
26	6																												1319.57	3.21	0.201	0.012	0.774	
27	7																												1319.65	3.29	0.193	0.011	0.785	
28	8																												1319.67	3.31	0.191	0.011	0.797	
29	8																												1319.69	3.33	0.189	0.011	0.808	
30	8																												1319.73	3.37	0.185	0.011	0.819	
31	8																												1319.75	3.39	0.184	0.011	0.830	
32	8																												1319.77	3.42	0.181	0.011	0.840	
33	7																												1319.79	3.43	0.180	0.011	0.851	
34	10																												1319.83	3.47	0.176	0.010	0.861	
35	10																												1320.12	3.76	0.152	0.009	0.870	
36	9																												1320.35	3.99	0.136	0.008	0.878	
37	7																												1320.40	4.04	0.132	0.008	0.886	
38	7																												1320.46	4.10	0.129	0.008	0.894	

model average											
β	0.12	0.11		0.36	-0.23	0.44		-0.07	0.07	-0.50	2.16
variance	0.01	0.02		0.01	0.02	0.02		0.01	0.01	0.02	0.01
relative											
importance	0.71	0.59		1.00	0.87	1.00		0.49	0.45	1.00	1.00
95% CI	0.22	0.25		0.18	0.25	0.25		0.20	0.21	0.27	0.18

Table S3.62. Sparrows summer incidence

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights			
1	7	■					■																							204.68	0.00	1.000	0.165	0.165			
2	8	■					■								■															205.58	0.90	0.638	0.105	0.270			
3	6																							■						205.84	1.16	0.559	0.092	0.362			
4	5																													205.91	1.24	0.538	0.089	0.450			
5	8																							■			■			206.12	1.45	0.485	0.080	0.530			
6	6																													207.06	2.38	0.303	0.050	0.580			
7	9														■									■						207.14	2.46	0.292	0.048	0.628			
8	6																													207.54	2.87	0.239	0.039	0.667			
9	7																													207.68	3.00	0.223	0.037	0.704			
10	7																							■						207.77	3.09	0.213	0.035	0.739			
11	6																													207.91	3.24	0.198	0.033	0.772			
12	7																								■		■			208.35	3.67	0.159	0.026	0.798			
model average																																					
	β	0.07					0.08			0.12					-0.01																						
	variance	0.00					0.00			0.00					0.00																						
	relative importance	1.00					1.00			1.00					0.28																						
	95% CI	0.06					0.06			0.06					0.03																						

Table S3.63. Sparrows winter abundance

Land-cover buffer scale: 0.75 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights
1	9																													1178.36	0.00	1.000	0.326	0.326
2	8																													1179.56	1.20	0.549	0.179	0.506
3	10																													1180.01	1.65	0.439	0.143	0.649
4	9																													1181.25	2.89	0.236	0.077	0.726
5	8																													1181.80	3.43	0.180	0.059	0.784
model average																																		
	β					0.41	0.42	-0.43			0.29			0.22			-0.25	-1.24			0.02	1.65												
	variance					0.02	0.01	0.02			0.01			0.01			0.05	0.10			0.00	0.02												
	relative importance					1.00	1.00	1.00			1.00			0.93			0.67	1.00			0.28	1.00												
	95% CI					0.24	0.21	0.25			0.23			0.23			0.45	0.61			0.09	0.26												

Table S3.64. Sparrows winter incidence, intercorrelations model (b)

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights
1	9																												217.94	0.00	1.000	0.061	0.061	
2	8																												218.34	0.40	0.819	0.050	0.110	
3	10																												218.86	0.92	0.631	0.038	0.148	
4	7																												218.99	1.05	0.591	0.036	0.184	
5	7																												219.02	1.08	0.582	0.035	0.219	
6	6																												219.11	1.17	0.557	0.034	0.253	
7	8																												219.25	1.31	0.518	0.031	0.284	
8	8																												219.34	1.40	0.495	0.030	0.314	
9	9																												219.52	1.58	0.453	0.027	0.342	
10	9																												219.80	1.86	0.395	0.024	0.366	
11	8																												219.84	1.90	0.386	0.023	0.389	
12	7																												219.85	1.91	0.384	0.023	0.412	
13	7																												220.13	2.20	0.334	0.020	0.433	
14	9																												220.17	2.23	0.327	0.020	0.452	
15	7																												220.25	2.32	0.314	0.019	0.471	
16	8																												220.33	2.40	0.302	0.018	0.490	
17	6																												220.39	2.46	0.293	0.018	0.507	
18	5																												220.47	2.53	0.282	0.017	0.524	
19	9																												220.47	2.53	0.282	0.017	0.541	
20	7																												220.55	2.62	0.270	0.016	0.558	
21	8																												220.66	2.72	0.256	0.016	0.573	
22	6																												220.67	2.73	0.255	0.015	0.589	
23	6																												220.79	2.86	0.240	0.015	0.603	
24	8																												220.80	2.86	0.239	0.014	0.618	
25	5																												220.80	2.86	0.239	0.014	0.632	
26	6																												221.21	3.28	0.194	0.012	0.644	
27	8																												221.26	3.32	0.190	0.012	0.656	
28	8																												221.28	3.34	0.188	0.011	0.667	
29	8																												221.29	3.36	0.187	0.011	0.678	
30	7																												221.40	3.46	0.177	0.011	0.689	
31	8																												221.41	3.48	0.176	0.011	0.700	
32	7																												221.53	3.60	0.165	0.010	0.710	
33	6																												221.55	3.61	0.164	0.010	0.720	
34	6																												221.59	3.65	0.161	0.010	0.729	
35	7																												221.60	3.66	0.160	0.010	0.739	
36	7																												221.74	3.80	0.150	0.009	0.748	
37	7																												221.77	3.83	0.147	0.009	0.757	
38	8																												221.77	3.84	0.147	0.009	0.766	
39	7																												221.82	3.88	0.144	0.009	0.775	
40	6																												221.85	3.91	0.142	0.009	0.783	
41	4																												221.86	3.92	0.141	0.009	0.792	
42	5																												221.89	3.95	0.139	0.008	0.800	
43	7																												221.95	4.01	0.135	0.008	0.808	

44	9								222.07	4.13	0.127	0.008	0.816
model average													
β		0.06	0.03	0.13	0.05	-0.02	0.13	-0.02	-0.10	0.03	0.66		
variance		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
relative													
importance		0.82	0.60	1.00	0.82	0.41	0.82	0.39	0.93	0.57	1.00		
95% CI		0.08	0.07	0.08	0.07	0.06	0.07	0.06	0.09	0.06	0.06		

Table S3.65. Sparrows winter incidence, intercorrelations model (c)

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights
1	7																												220.25	0.00	1.000	0.111	0.111	
2	6																												220.39	0.14	0.933	0.104	0.215	
3	5																												220.80	0.54	0.762	0.085	0.300	
4	6																												221.21	0.96	0.619	0.069	0.369	
5	8																												221.26	1.00	0.606	0.068	0.437	
6	7																												221.53	1.28	0.527	0.059	0.496	
7	6																												221.59	1.33	0.513	0.057	0.553	
8	7																												221.82	1.56	0.457	0.051	0.604	
9	4																												221.86	1.60	0.449	0.050	0.654	
10	5																												221.89	1.63	0.442	0.049	0.703	
11	6																												222.11	1.85	0.396	0.044	0.747	
12	5																												222.51	2.26	0.323	0.036	0.783	
13	5																												222.72	2.46	0.292	0.033	0.816	
14	6																												223.06	2.81	0.246	0.027	0.843	
15	7																												223.16	2.90	0.234	0.026	0.869	
16	7																												223.16	2.91	0.234	0.026	0.895	
17	6																												223.21	2.96	0.228	0.025	0.920	
18	6																												223.90	3.64	0.162	0.018	0.938	
19	6																												224.07	3.82	0.148	0.017	0.955	
20	5																												224.23	3.97	0.137	0.015	0.970	
model average																																		
	β	0.05 0.02		0.12																										0.03	0.66			
	variance	0.00 0.00		0.00																										0.00	0.00			
	relative importance	0.70 0.49		1.00																										0.55	1.00			
	95% CI	0.08 0.06		0.08																										0.06	0.06			

Table S3.66. Common Linnet summer abundance

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights			
1	8																													395.01	0.00	1.000	0.501	0.501			
2	9																													396.62	1.61	0.446	0.223	0.724			
3	7																													399.11	4.09	0.129	0.065	0.789			
model average																																					
	β	0.39	-0.50													1.05	0.42																				
	variance	0.02	0.03													0.04	0.05																				
	relative importance	1.00	1.00													1.00	0.92																				
	95% CI	0.26	0.35													0.38	0.41																				

Table S3.67. Common Linnet summer incidence

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights		
1	7	█																											187.58	0.00	1.000	0.120	0.120			
2	8	█		█												█									█	█		█	█	187.65	0.07	0.967	0.117	0.237		
3	9	█		█																					█	█		█	█	187.96	0.37	0.829	0.100	0.337		
4	8	█		█																					█	█		█	█	188.14	0.56	0.756	0.091	0.428		
5	6	█																										█	█	188.86	1.27	0.529	0.064	0.492		
6	7	█																			█							█	█	189.20	1.61	0.446	0.054	0.546		
7	8	█		█																					█	█	█	█	189.25	1.67	0.434	0.052	0.598			
8	7	█		█																					█	█		█	█	189.35	1.77	0.413	0.050	0.648		
9	6	█																										█	█	189.74	2.16	0.340	0.041	0.689		
10	7	█		█																								█	█	189.93	2.34	0.310	0.037	0.726		
11	7	█		█																								█	█	190.47	2.89	0.236	0.028	0.754		
12	8	█		█																	█							█	█	190.73	3.15	0.207	0.025	0.779		
13	7	█		█																								█	█	190.84	3.26	0.196	0.024	0.803		
14	8	█		█																								█	█	190.96	3.38	0.185	0.022	0.825		
15	6	█		█																								█	█	191.10	3.52	0.172	0.021	0.846		
16	6	█		█																								█	█	191.48	3.90	0.142	0.017	0.863		
17	7	█		█																								█	█	191.50	3.92	0.141	0.017	0.880		
18	5	█																										█	█	191.57	3.99	0.136	0.016	0.897		
model average																																				
β		0.08		-0.05												0.14				0.04									0.07		0.25					
variance		0.00		0.00												0.00				0.00									0.00		0.00					
relative importance		1.00		0.77												1.00				0.76									0.91		1.00					
95% CI		0.05		0.07												0.07				0.06									0.07		0.05					

Table S3.68. Common Linnet winter abundance, \hat{p} as offset

Land-cover buffer scale: 1 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	Δ AICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights		
1	7																												591.67	0.00	1.000	0.528	0.528			
2	6																												593.89	2.22	0.329	0.174	0.703			
3	6																												594.55	2.89	0.236	0.125	0.827			
4	5																												594.98	3.31	0.191	0.101	0.928			
model average																																				
	β	-0.25						0.18																												
	variance	0.05						0.02																												
	relative importance	0.70						0.76																												
	95% CI	0.43						0.30																												

Table S3.69. Common Linnet winter incidence, \hat{p} as offset

Land-cover buffer scale: 1.25 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	Δ AICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights				
1	9																																218.35	0.00	1.000	0.072	0.072	
2	11																																	218.37	0.01	0.993	0.072	0.144
3	8																																	218.56	0.20	0.904	0.065	0.209
4	10																																	218.88	0.53	0.769	0.055	0.265
5	9																																	218.98	0.62	0.733	0.053	0.317
6	10																																	219.16	0.80	0.670	0.048	0.366
7	12																																	219.25	0.90	0.638	0.046	0.412
8	8																																	219.39	1.04	0.595	0.043	0.455
9	10																																	219.66	1.31	0.520	0.038	0.492
10	10																																	220.16	1.81	0.405	0.029	0.522
11	9																																	220.19	1.83	0.400	0.029	0.550
12	9																																	220.29	1.93	0.381	0.027	0.578
13	9																																	220.44	2.08	0.353	0.025	0.603
14	11																																	220.53	2.18	0.336	0.024	0.628
15	11																																	220.88	2.53	0.283	0.020	0.648
16	10																																	220.97	2.62	0.270	0.019	0.667
17	9																																	221.12	2.77	0.250	0.018	0.686
18	10																																	221.35	3.00	0.223	0.016	0.702
19	9																																	221.38	3.03	0.220	0.016	0.718
20	7																																	221.48	3.12	0.210	0.015	0.733
21	11																																	221.61	3.26	0.196	0.014	0.747
22	8																																	221.79	3.43	0.180	0.013	0.760
23	10																																	222.05	3.69	0.158	0.011	0.771
24	11																																	222.20	3.85	0.146	0.011	0.782
25	10																																	222.34	3.99	0.136	0.010	0.792
26	7																																	222.46	4.11	0.128	0.009	0.801
model average																																						
β		-0.14	0.09								-0.11				-0.02					-0.03	0.00						0.07	0.04	0.14	0.37								
variance		0.00	0.00								0.00				0.00					0.00	0.00						0.00	0.00	0.00	0.00								
relative																																						
importance		1.00	0.95								1.00				0.41					0.50	0.29						0.81	0.64	1.00	1.00								
95% CI		0.10	0.08								0.08				0.07					0.08	0.03						0.10	0.09	0.07	0.06								

Table S3.70. Black-headed Bunting summer incidence

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights
1	6																												15.44	0.00	1.000	0.046	0.046	
2	7																												16.29	0.85	0.654	0.030	0.076	
3	7																												16.57	1.13	0.568	0.026	0.102	
4	7																												16.84	1.40	0.497	0.023	0.125	
5	8																												16.86	1.42	0.492	0.023	0.148	
6	5																												16.95	1.50	0.471	0.022	0.169	
7	7																												17.11	1.67	0.434	0.020	0.189	
8	5																												17.19	1.75	0.416	0.019	0.208	
9	7																												17.36	1.91	0.384	0.018	0.226	
10	7																												17.36	1.92	0.384	0.018	0.244	
11	6																												17.36	1.92	0.383	0.018	0.261	
12	4																												17.62	2.18	0.336	0.015	0.277	
13	6																												17.89	2.45	0.294	0.014	0.290	
14	8																												17.90	2.46	0.293	0.013	0.304	
15	8																												17.98	2.54	0.280	0.013	0.317	
16	5																												18.04	2.60	0.273	0.013	0.329	
17	6																												18.05	2.61	0.272	0.012	0.342	
18	6																												18.15	2.71	0.259	0.012	0.354	
19	8																												18.15	2.71	0.258	0.012	0.366	
20	8																												18.18	2.74	0.254	0.012	0.377	
21	6																												18.24	2.79	0.247	0.011	0.389	
22	6																												18.24	2.80	0.247	0.011	0.400	
23	8																												18.51	3.06	0.216	0.010	0.410	
24	8																												18.55	3.11	0.211	0.010	0.420	
25	8																												18.58	3.14	0.209	0.010	0.429	
26	6																												18.58	3.14	0.208	0.010	0.439	
27	7																												18.70	3.26	0.196	0.009	0.448	
28	5																												18.71	3.27	0.195	0.009	0.457	
29	9																												18.73	3.29	0.193	0.009	0.466	
30	8																												18.78	3.34	0.188	0.009	0.474	
31	6																												18.81	3.37	0.186	0.009	0.483	
32	8																												18.81	3.37	0.185	0.009	0.491	
33	9																												18.83	3.39	0.184	0.008	0.500	
34	9																												18.83	3.39	0.184	0.008	0.508	
35	7																												18.90	3.46	0.177	0.008	0.516	
36	6																												18.92	3.48	0.176	0.008	0.524	
37	6																												18.95	3.51	0.173	0.008	0.532	
38	7																												18.96	3.52	0.172	0.008	0.540	
39	7																												18.99	3.55	0.170	0.008	0.548	
40	8																												19.00	3.55	0.169	0.008	0.556	
41	8																												19.06	3.62	0.164	0.008	0.563	
42	5																												19.09	3.65	0.161	0.007	0.571	
43	7																												19.18	3.74	0.154	0.007	0.578	

44	7										19.27	3.83	0.148	0.007	0.585
45	8										19.28	3.84	0.147	0.007	0.592
46	7										19.41	3.97	0.137	0.006	0.598
47	7										19.53	4.09	0.130	0.006	0.604
48	5										19.56	4.12	0.127	0.006	0.610
49	6										19.59	4.15	0.125	0.006	0.615
50	6										19.61	4.17	0.125	0.006	0.621

model average															
β	0.01		-0.01	0.09	0.02	0.01	0.05		0.00	0.03	0.00	0.08			
variance	0.00		0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00			
relative															
importance	0.27		0.27	1.00	0.65	0.40	1.00		0.21	0.73	0.19	1.00			
95% CI	0.03		0.02	0.04	0.05	0.03	0.04		0.01	0.05	0.01	0.03			

Table S3.71. Corn Bunting summer incidence

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	Δ AICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights			
1	7																													20.85	0.00	1.000	0.734	0.734			
model average																																					
	β						0.69		-1.40							0.96																					
	variance						0.06		0.54							0.11																					
	relative importance						1.00		1.00							1.00																					
	95% CI						0.47		1.47							0.66																					

Table S3.72. Corn Bunting winter incidence

Land-cover buffer scale: 0.5 km

model no.	K	artificial land-cover	arable land-cover	cereal	tilled	fallow	horticulture	grassland land-cover	fruit tree land-cover	groves	olive	carob	citrus	almond & other fruit	vineyard land-cover	active viticulture	abandoned viticulture	boundary features	complex agriculture	scrub land-cover	scrub habitat	tree density	forest land-cover	forest habitat	unvegetated land	elevation	habitat diversity	spatial autocovariate	intercept	AICc	ΔAICc	Relative likelihood	Akaike weights	Cumulative Akaike Weights		
1	5																													252.84	0.00	1.000	0.079	0.079		
2	6																													253.53	0.69	0.707	0.056	0.135		
3	6																													253.97	1.13	0.567	0.045	0.179		
4	6																													254.37	1.53	0.466	0.037	0.216		
5	7																													254.49	1.65	0.438	0.034	0.250		
6	5																													254.68	1.84	0.398	0.031	0.282		
7	6																													254.84	2.00	0.368	0.029	0.311		
8	7																													254.87	2.03	0.362	0.028	0.339		
9	4																													254.89	2.05	0.360	0.028	0.368		
10	7																													255.07	2.23	0.328	0.026	0.393		
11	5																													255.23	2.39	0.303	0.024	0.417		
12	8																													255.25	2.41	0.300	0.024	0.441		
13	7																													255.52	2.68	0.262	0.021	0.462		
14	4																													255.56	2.72	0.257	0.020	0.482		
15	6																													255.83	2.99	0.224	0.018	0.499		
16	7																													255.97	3.13	0.209	0.016	0.516		
17	6																													256.00	3.16	0.206	0.016	0.532		
18	6																													256.19	3.35	0.187	0.015	0.547		
19	5																													256.26	3.42	0.181	0.014	0.561		
20	4																													256.34	3.50	0.174	0.014	0.575		
21	7																													256.37	3.53	0.172	0.014	0.588		
22	5																													256.44	3.60	0.165	0.013	0.601		
23	8																													256.47	3.63	0.163	0.013	0.614		
24	6																													256.58	3.74	0.154	0.012	0.626		
25	5																													256.60	3.76	0.153	0.012	0.638		
26	7																													256.61	3.77	0.152	0.012	0.650		
27	6																													256.62	3.78	0.151	0.012	0.662		
28	5																													256.75	3.91	0.142	0.011	0.674		
29	5																													256.84	4.00	0.136	0.011	0.684		
30	8																													256.85	4.01	0.134	0.011	0.695		
31	5																													256.93	4.09	0.129	0.010	0.705		
model average																																				
	β	-0.06											-0.05	0.01	-0.01																				0.32	
	variance	0.00											0.00	0.00	0.00																				0.00	
	relative																																			
	importance	0.86											0.73	0.31	0.34																				1.00	
	95% CI	0.07											0.08	0.03	0.04																				0.06	