

Appendix 1. Table containing the coefficients obtained by the GLMMs.

Table A1.1. Best models obtained ($\Delta AIC < 2.0$) by automatic selection of GLMMs for each species. The values of Akaike Information Criterion (AIC), ΔAIC , weight (w) and the marginal (R_M^2) and conditional (R_C^2) r-squared values for each model are shown in the Coefficients column. Fixed effect column shows the presence (\checkmark) or absence (-) of the different habitat variables in the selected models, as well as the relative importance of the variable in the set of models (RIV) and a mean ($Mean_E$) and standard deviation (SD_E) of the Estimate values obtained for each variable. Finally, the variance explained, and standard deviation (SD) of the random effect variable (TFloodedArea) are shown in the last column.

Model	Coefficients					Fixed effects							Random effects	
	AIC	ΔAIC	w	R_M^2	R_C^2	Predictors	%Cladium	%Phragmites	%Typha	%DrierVeg	%OpenWater	%DrySurface	Variance	SD
<i>Great Reed Warbler - Acrocephalus arundinaceus</i>														
1	2021.1	0.0	0.16	0.036	0.342	-	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	-	0.383	0.619
2	2021.4	0.3	0.14	0.019	0.353	\checkmark	\checkmark	-	-	\checkmark	-	-	0.425	0.652
3	2021.6	0.5	0.13	0.018	0.361	\checkmark	-	\checkmark	-	\checkmark	-	-	0.443	0.666
4	2022.2	1.1	0.10	0.022	0.351	\checkmark	\checkmark	-	\checkmark	\checkmark	-	-	0.417	0.646
5	2022.5	1.4	0.08	0.033	0.343	\checkmark	-	\checkmark	-	\checkmark	\checkmark	-	0.388	0.633
6	2022.6	1.5	0.08	0.035	0.339	\checkmark	\checkmark	-	-	\checkmark	\checkmark	\checkmark	0.379	0.616
7	2022.8	1.7	0.07	0.013	0.371	\checkmark	-	\checkmark	-	-	-	-	0.468	0.684
8	2023.0	1.9	0.06	0.014	0.363	\checkmark	-	-	-	\checkmark	-	-	0.452	0.672
9	2023.1	2.0	0.06	0.019	0.356	\checkmark	\checkmark	\checkmark	-	\checkmark	-	-	0.431	0.657
10	2023.1	2.0	0.06	0.038	0.341	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	-	-	0.379	0.616
11	2023.1	2.0	0.06	0.036	0.342	-	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	0.383	0.619
						$Mean_E$	-0.681	0.432	0.105	0.317	0.668	-0.177		
						SD_E	± 0.478	± 0.496	± 0.469	± 0.483	± 0.510	± 0.400		
						RIV	0.78	0.66	0.62	0.38	0.93	0.22		
<i>Moustached Warbler - Acrocephalus melanopogon</i>														
1	734.1	0.0	0.45	0.380	0.512	-	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	0.639	0.799
2	735.7	1.6	0.20	0.377	0.516	\checkmark	\checkmark	-	\checkmark	-	-	-	0.680	0.825
3	735.9	1.8	0.18	0.378	0.515	\checkmark	\checkmark	-	\checkmark	\checkmark	-	-	0.668	0.817
4	736.0	1.9	0.17	0.380	0.514	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	0.651	0.807
						$Mean_E$	1.091	-2.046	-0.885	-8.845	-1.399	-1.441		
						SD_E	± 1.073	± 1.017	± 1.027	± 1.166	± 1.245	± 1.667		
						RIV	0.55	1	0.62	1	0.8	0.62		
<i>Reed Bunting - Emberiza schoeniclus hyperbyi</i>														
1	986.2	0.0	0.24	0.146	0.263	\checkmark	-	\checkmark	-	\checkmark	\checkmark	\checkmark	0.287	0.536
2	986.8	0.6	0.18	0.148	0.274	\checkmark	\checkmark	\checkmark	\checkmark	-	-	-	0.317	0.563
3	987.3	1.1	0.14	0.150	0.268	\checkmark	\checkmark	-	-	\checkmark	\checkmark	\checkmark	0.292	0.540
4	987.6	1.4	0.12	0.149	0.268	\checkmark	-	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	0.294	0.542
5	987.6	1.4	0.12	0.149	0.268	\checkmark	\checkmark	\checkmark	-	\checkmark	\checkmark	\checkmark	0.294	0.542
6	988.0	1.8	0.10	0.148	0.266	\checkmark	\checkmark	-	\checkmark	\checkmark	\checkmark	\checkmark	0.293	0.541
7	988.1	1.9	0.10	0.147	0.266	\checkmark	\checkmark	\checkmark	\checkmark	-	\checkmark	\checkmark	0.292	0.540
						$Mean_E$	3.214	0.145	-1.348	-0.469	1.334	1.765		
						SD_E	± 1.049	± 1.056	± 1.126	± 0.997	± 1.040	± 1.154		
						RIV	1	0.64	0.76	0.5	0.72	0.82		
<i>Savi's Warbler - Locustella luscinioides</i>														
1	1819.7	0.0	0.45	0.270	0.342	\checkmark	-	-	\checkmark	\checkmark	-	-	0.095	0.309
2	1821.1	1.4	0.22	0.268	0.339	\checkmark	-	-	\checkmark	\checkmark	\checkmark	\checkmark	0.092	0.304
3	1821.6	1.9	0.17	0.270	0.343	\checkmark	-	\checkmark	\checkmark	\checkmark	-	-	0.097	0.311
4	1821.7	2.0	0.16	0.270	0.343	\checkmark	\checkmark	-	\checkmark	\checkmark	-	-	0.096	0.309
						$Mean_E$	1.311	0.004	-0.013	-2.757	0.775	0.087		
						SD_E	± 0.013	± 0.008	± 0.026	± 0.048	± 0.040	± 0.173		
						RIV	1	0.16	0.17	1	1	0.22		
<i>Bearded Tit - Panurus biarmicus</i>														
1	2355.2	0.0	0.45	0.418	0.606	-	-	-	\checkmark	\checkmark	\checkmark	\checkmark	0.576	0.759
2	2356.9	1.7	0.19	0.419	0.604	-	-	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	0.566	0.752
3	2357.0	1.8	0.18	0.418	0.605	-	\checkmark	-	\checkmark	\checkmark	\checkmark	\checkmark	0.571	0.755
4	2357.0	1.8	0.18	0.420	0.606	\checkmark	-	-	\checkmark	\checkmark	\checkmark	\checkmark	0.569	0.755
						$Mean_E$	-0.059	-0.027	0.033	-5.713	0.907	-3.286		
						SD_E	± 0.117	± 0.055	± 0.067	± 0.048	± 0.046	± 0.050		
						RIV	0.18	0.18	0.19	1	1	1		