

APPENDIX 3

Table A.3.1. Candidate model set for hurdle models of environmental influences on shorebirds abundance and occupancy. Degrees of freedom (*df*), log likelihood (*logLik*), and *AIC* are included, as also McFadden's (pseudo-r²) of selected models.

Model	<i>df</i>	<i>logLik</i>	<i>AIC</i>	pseudo-r²
Uruguay - Wetlands				
Abund ~ h_type+Zdist_cit+Zdist_est+Sp	22	-662.3	1368.61	0.57
Abund ~ h_type+Zdist_cit+Sp	24	-660.5	1369.01	
Abund ~ h_type+Zdist_est+Sp	22	-667.7	1379.41	
Abund ~ Zdist_cit+Zdist_est+Sp	22	-705.2	1454.41	
Uruguay - Beaches				
Abund~h_type+Zdist_est+Zdist_cit+Sp	22	-582.3	1208.55	0.31
Abund ~ h_type + Zdist_cit + Sp	20	-584.1	1208.26	
Abund~h_type+Zdist_est+Sp	20	-585.5	1211.06	
Abund ~ Zdist_cit + Sp	18	-614.2	1264.36	
Brazil - Beaches				
Abund~h_type+Zdist_est+Zdist_cit+Sp	28	-3828	7712.42	0.41
Abund ~ h_type + Zdist_est + Sp	26	-3841	7734.69	
Abund ~ h_type + Zdist_cit + Sp	26	-3909	7869.07	
Abund~Zdist_est+Zdist_cit+Sp	24	-3978	8003.77	
Brazil - Wetlands				
Abund~h_type*Zarea_h+Zdist_est+Region+Zdist_cit+Sp	36	-1926	3923.17	0.44
Abund ~ h_type * Zarea_h + Zdist_est + Region + Sp	34	-1941	3949.78	
Abund ~ h_type * Zarea_h + Zdist_cit + Region + Sp	34	-1935	3938.57	
Abund ~ h_type * Zarea_h + Zdist_est + Region + Sp	34	-1950	3967.48	

Model	df	logLik	AIC	pseudo-r²
Abund~h_type*Zarea_h+Zdist_est+Zdist_cit+Sp	34	-1941	3949.78	
Abund ~ h_type + Zdist_est + Zdist_cit + Sp	28	-2189	4433.23	
Abund ~ h_type + Zdist_est + Zdist_cit + Sp	24	-2280	4608.55	
Argentina - Wetlands 1				
Abund~h_type+Zdist_est+Zdist_cit+Sp	32	-3311	6686.84	0.45
Abund~h_type+Zdist_est+Sp	30	-3319	6698.78	
Abund~h_type+Zdist_cit+Sp	30	-3327	6713.19	
Abund~Zdist_est+Zdist_cit+Sp	28	-3367	6789.55	
Argentina - Wetlands 2 a 5				
Abund~Zdist_est+Zdist_cit+Region+Sp	30	-3515	7089.63	0.69
Abund ~ Zdist_cit + Region + Sp	26	-3622	7295.63	
Abund ~ Zdist_est + Region + Sp	26	-3738	7528.23	
Abund ~ Zdist_est + Zdist_cit + Sp	24	-5141	10329.96	
Argentina - Beaches				
Abund~h_type+Zdist_est+Zdist_cit+Region+Sp	40	-4732	9543.11	0.39
Abund~h_type+Zdist_cit+Region+Sp	38	-4836	9748.31	
Abund~h_type+Zdist_est+Region+Sp	38	-4836	9748.31	
Abund~h_type+Zdist_est+Zdist_cit+Sp	32	-4893	9850.96	