

SUPPLEMENTARY ELECTRONIC MATERIAL (APPENDIX 1)

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MONITORING ABUNDANCE AND DISTRIBUTION OF NORTHERN GANNETS *MORUS BASSANUS* IN WESTERN IBERIAN WATERS IN AUTUMN BY AERIAL SURVEYS

SEGUIMIENTO DE LA ABUNDANCIA Y DISTRIBUCIÓN DE ALCATRAZ ATLÁNTICO *MORUS BASSANUS* EN AGUAS IBÉRICAS OCCIDENTALES EN OTOÑO MEDIANTE MUESTREOS AÉREOS

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TABLE A1

Values of Pearson's correlations coefficient 'r' between the environmental variables used in the distribution modeling for the Northern Gannet. Wind, DEM (Digital Elevation Model), Chl (Mean Chlorophyll Concentration), SST (Mean Sea Surface Temperature), SSH (Sea Surface Height), dist ports (Distance to ports). * not included in the same model. + Correlated Variable values. Correlated variable DEM and SSH was removed from the models' scenarios.

[Valores del coeficiente de correlaciones de Pearson 'r' entre las variables ambientales usadas en e modelo de distribución para el alcatraz atlántico. Viento, DEM (Modelo de Elevación Digital), Chl (Concentración Media de Clorofila), SST (Temperatura Media en la Superficie Marina), SSH (Altura de Superficie Marina), dist ports (Distancia a los puertos), * no se incluye en el mismo modelo. + Valores de variables correlacionadas. La variable correlacionada DEM y SSH se eliminó de los escenarios de los modelos.]

EGV's	wind 15	chl 10 11	chl 12	chl 13	chl 14	chl 15	de m	dist port s	slo pe	ss h 10	ss h 11	ss h 12	ss h 13	ss h 14	ss h 15	sst 10	sst 11	sst 12	sst 13	sst 14	sst 15	win d 10	win d 11	win d 12	win d 13	win d 14		
wind 15	1	- 0.236	- 0.2 87	- 0.2 98	- 0.1 62	- 0.2 1	- 0.3 45	- 0.6 75	0.7 04	0.2 34	0.1 31	0.3 34	0.1 87	- 0.3 74	0.0 64	0.2 66	- 0.1 08	0.0 79	0.0 46	- 0.0 84	0.0 14	0.1 53	0.8 04*	0.7 41*	0.6 67	0.7 18*	0.6 25	
chl 10		1	0.8 61*	0.8 73*	0.9 06*	0.8 64*	0.8 83*	0.3 59	- 0.3 99	- 0.2 39	- 0.4 67	- 0.4 8	- 0.4 08	- 0.4 39	0.0 0.1 96	- 0.5 14	- 0.4 29	- 0.4 33	- 0.4 29	- 0.3 55	- 0.3 11	- 0.4 27	- 0.3 37	- 0.0 65	0.0 73	0.0 75	0.0 73	
chl 11			1	0.8 93*	0.8 04*	0.8 27*	0.8 25*	0.3 9	- 0.4 48	- 0.2 32	- 0.4 37	- 0.4 88	- 0.3 68	0.0 51	- 0.1 01	- 0.4 04	- 0.3 03	- 0.4 03	- 0.3 02	- 0.2 44	- 0.2 85	- 0.3 64	- 0.3 83	- 0.1 47	- 0.3 58	- 0.0 3	- 0.0 45	0.0 22
chl 12				1	0.7 52*	0.8 03*	0.8 64*	0.3 8	- 0.4 29	- 0.2 52	- 0.4 41	- 0.4 82	- 0.3 93	0.0 48	0.1 98	0.4 99	0.3 5	0.3 82	0.3 51	0.2 75	0.2 68	0.3 63	0.1 59	0.3 82	0.0 3	0.0 47	0.0 14	
chl 13					1	0.8 9*	0.7 36*	0.2 85	- 0.3 27	- 0.1 79	- 0.3 7	- 0.3 75	- 0.3 19	0.0 37	0.1 46	0.4 1	0.3 77	0.3 52	0.3 5	0.2 99	0.2 63	0.3 58	0.0 27	- 0.2 55	0.0 91	0.0 23	0.1 8	
chl 14						1	0.7 93*	0.2 77	- 0.3 22	- 0.1 78	- 0.3 26	- 0.3 45	- 0.2 93	0.0 52	0.1 38	0.3 7	0.2 74	0.2 83	0.2 84	0.2 26	0.2 3	0.2 91	0.0 43	0.2 66	0.0 21	0.0 38	0.0 04	
chl 15							1	0.4 06	- 0.4 55	- 0.2 57	- 0.4 59	- 0.4 98	- 0.4 11	0.0 62	0.2 15	0.5 17	0.3 33	0.3 96	0.3 88	0.3 07	0.2 93	0.3 93	0.1 78	0.4 47	0.0 4	0.0 68	0.0 21	

10	66	66*	11*	73*
wind	1	0.1	0.2	0.1
11		46	76	75
wind		1	0.8	0.8
12			88*	68*
wind			1	0.7
13				77*
wind				1
14				

TABLE A2

AUC values and Standard Deviation (SD) for different models: 2010, 2011, 2012, 2013, 2014, 2015 from models with EGV's (SST and Chl) for the survey month; 2010_1, 2011_1, 2012_1, 2013_1, 2014_1, 2015_1 from models with EGV's (SST and Chl) lag -1; 2010_2, 2011_2, 2012_2, 2013_2, 2014_2, 2015_2 from models with EGV's (SST and Chl) lag-2.

[Valores AUC y Desviación Estándar (SD) para diferentes modelos: 2010, 2011, 2012, 2013, 2014, 2015 de modelos con EGV's (SST y Chl) para el mes de la encuesta; 2010_1, 2011_1, 2012_1, 2013_1, 2014_1, 2015_1 de modelos con EGV's (SST y Chl) lag -1; 2010_2, 2011_2, 2012_2, 2013_2, 2014_2, 2015_2 para modelos con EGV's (SST y Chl) lag-2.]

Model	AUC	SD
2010	0.839	0.008
2010_1	0.831	0.011
2010_2	0.834	0.010
2011	0.814	0.007
2011_1	0.822	0.008
2011_2	0.827	0.007
2012	0.855	0.010
2012_1	0.849	0.008
2012_2	0.845	0.009
2013	0.844	0.014
2013_1	0.842	0.006
2013_2	0.842	0.008
2014	0.881	0.010
2014_1	0.870	0.008
2014_2	0.874	0.009
2015	0.835	0.005

2015_1	0.830	0.007
2015_2	0.826	0.008