Supplementary Material

Table S1. Spearman correlation coefficients (rs) for different climate variable sets for pairwise correlations between climate similarity (based on [1], for methods see Section 2.5) and species pool similarity (based on [2], for methods see Section 2.5) for all EOA grid cells with good coverage within Europe (n = 2589). The highest correlation coefficient is highlighted. p: summed precipitation; tmean: mean temperature; tmin: mean minimum temperature; tmax: mean maximum temperature; 1: January; 7: July; 456: April, May, June; 1212: December, January, February; 567: May, June, July; 678: June, July, August.

Set No. (Climate Variables Included in Set)	r_S
X1 (p456; tmean456; tmin1; p1212)	−0.68 ***
X2 (p456; tmean456; tmean1212; p1212)	−0.71 ***
X3 (p456; tmean456; tmean1; p1212)	−0.70 ***
X4 (p456; tmean456; tmean1)	−0.66 ***
X5 (p456; tmean456; tmin1)	−0.63 ***
X6 (p456; tmean456; tmean1212)	−0.66 ***
X7 (p456; tmean456; tmin1; tmax7)	−0.74 ***
X8 (p456; tmean456; tmean1212; tmax7)	−0.76 ***
X9 (p456; tmean456; tmean1; tmax7)	−0.75 ***
X10 (p567; tmean567; tmin1; p1212)	−0.74 ***
X11 (p567; tmean567; tmean1212; p1212)	−0.76 ***
X12 (p567; tmean567; tmean1; p1212)	−0.75 ***
X13 (p567; tmean567; tmin1)	−0.69 ***
X14 (p567; tmean567; tmean1212)	−0.71 ***
X15 (p567; tmean567; tmean1)	−0.71***
X16 (p678; tmean678; tmin1; p1212)	−0.75 ***
X17 (p678; tmean678; tmean1212; p1212)	−0.76 ***
X18 (p678; tmean678; tmean1; p1212)	−0.75 ***
X19 (p678; tmean678; tmin1)	−0.71 ***
X20 (p678; tmean678; tmean1212)	−0.73 ***
X21 (p678; tmean678; tmean1)	−0.72 ***
X1_2 (p678; tmean678)	−0.70 ***
X2_2 (p456; tmean456)	−0.64 ***
X3_2 (p456; tmean456; tmean1212; tmean678)	−0.73 ***
X4_2 (p456; tmean456; tmean1212; tmean678; p1212)	−0.76 ***
X5_2 (p456; tmean456; tmean1212; tmax7; p1212)	**−0.78** ***
X6_2 (p456; tmean456; p678; tmean1212)	−0.70 ***
X7_2 (p456; tmean456; p678; tmean678; tmean1212)	−0.74 ***
X8_2 (p456; tmean456; p678; tmax7; tmean1212)	−0.76 ***
X9_2 (p456; tmean456; p678; tmax7; tmean1212; p1212)	−0.76 ***
X10_2 (p456; tmean456; p678; tmean678; tmean1212; p1212)	−0.74 ***

* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$.

Table S2. Current (1950–2000, Worldclim [1]) and future (2071–2100, CLM [3–7], REMO [8–13]) climate conditions in the study area for the five chosen variables. Min, mean and max refer to the minimum, mean and maximum value for the given variable within the study area. Prec_4_5_6: Precipitation sum April, May, June (mm); Prec_12_1_2: Precipitation sum December, January, February (mm); Tmp_4_5_6: Mean temperature April, May, June (°C); Tmp_12_1_2: Mean Temperature December, January, February (°C); Tmax_7: Maximum temperature in July (°C).

Climate Data		Prec_4_5_6	Prec_12_1_2	Tmp_4_5_6	Tmp_12_1_2	Tmax_7
Worldclim 1950–2000	Min	159	123	10.9	-0.1	21.6
	Mean	175	147	11.8	0.4	22.6
	Max	189	187	12.2	0.9	23.2
CLM A1B, run 1 2071–2100	Min	150	146	12.9	3.5	24.9
	Mean	166	182	13.8	4.1	25.9
	Max	180	234	14.2	4.6	26.6
CLM A1B, run 2 2071–2100	Min	163	143	13.2	3.7	24.7
	Mean	185	176	14.1	4.2	25.8
	Max	208	222	14.5	4.7	26.7
REMO A1B, run UBA 2071–2100	Min	143	142	12.9	3.8	23.9
	Mean	166	173	13.8	4.5	25.0
	Max	184	220	14.2	5.1	25.6
REMO A1B, run BFG 2071–2100	Min	146	137	13.4	3.9	24.0
	Mean	166	173	14.3	4.4	25.2
	Max	188	228	14.9	5.0	25.7
CLM B1 2071–2100	Min	149	133	12.1	2.5	23.2
	Mean	167	164	13.0	3.0	24.3
	Max	183	214	13.5	3.5	24.9
REMO B1 2071–2100	Min	147	133	12.0	2.8	22.6
	Mean	173	162	12.9	3.3	23.6
	Max	191	213	13.4	3.8	24.2
REMO A2 2071–2100	Min	151	140	12.7	3.9	23.9
	Mean	176	169	13.5	4.5	25.0
	Max	198	215	14.0	5.0	25.6

Table S3. Location and number of future climatically analogous Worldclim- and EOA grid cells.

Model, Scenario, Run	Number of Future Climatically Analogous Worldclim Grid Cells								Number of Future Climatically Analogous EOA Grid Cells	Nearest Distance: Future Climatically Analogous EOA Grid Cell to Study Area (km)
	France	Italy	Spain	Belgium	Great Britain	Germany	The Netherlands	∑ Europe		
CLM, B1	48584	596	13	0	0	83	0	**49276**	12	499
REMO, B1	47435	79	0	1593	759	4	1	**49871**	8	571
CLM, A1B, run 1	11548	1197	377	0	0	0	0	**13122**	1	854
CLM, A1B, run 2	30972	1051	642	0	0	0	0	**32665**	3	854
REMO A1B, run BFG	42135	324	1	0	0	2	0	**42462**	9	818
REMO, A1B, run UBA	51016	413	136	0	0	0	0	**51565**	11	783
REMO A2	38370	144	524	0	0	0	0	**39038**	10	818

Table S4. Comparison of altitude [1] (m) between the Lüneburg Heath region (LHR) and the different future climatically analogous regions (FCARs).

Altitude	LHR	FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"
Min	−4	23	13	4	15
Mean	47	126	140	94	101
Max	156	268	329	259	315

Table S5. Comparison of CORINE land cover classes [14] between the Lüneburg Heath region (LHR) and the different future climatically analogous regions (FCARs).

CORINE 2006 Land Cover Classes				LHR		FCAR "CLM B1"		FCAR "REMO B1"		FCAR "REMO A1B"		FCAR "REMO A2"	
				km²	%	km²	%	km²	%	km²	%	km²	%
Artificial surfaces	Urban fabric	111	Continuous urban fabric	10.71	**0.05**	61.13	**0.31**	39.08	**0.20**	9.51	**0.05**	10.99	**0.05**
		112	Discontinuous urban fabric	1322.51	**6.61**	1232.76	**6.15**	1271.48	**6.35**	724.62	**3.49**	703.57	**3.42**
	Industrial, commercial and transport units	121	Industrial or commercial units	145.22	**0.73**	235.16	**1.17**	211.89	**1.06**	114.21	**0.55**	106.53	**0.52**
		122	Road and rail networks and associated land	11.34	**0.06**	45.42	**0.23**	28.54	**0.14**	11.28	**0.05**	14.35	**0.07**
		123	Port areas	22.29	**0.11**	-	**-**	6.22	**0.03**	-	**-**	-	**-**
		124	Airports	14.26	**0.07**	63.71	**0.32**	20.58	**0.10**	9.63	**0.05**	10.31	**0.05**
	Mine, dump and construction sites	131	Mineral extraction sites	22.34	**0.11**	54.30	**0.27**	26.94	**0.13**	28.12	**0.14**	32.30	**0.16**
		132	Dump sites	12.32	**0.06**	3.28	**0.02**	1.21	**0.01**	0.62	**0.00**	0.62	**0.00**
		133	Construction sites	3.24	**0.02**	6.95	**0.03**	5.04	**0.03**	4.72	**0.02**	3.63	**0.02**
	Artificial, non-agricultural vegetated areas	141	Green urban areas	44.15	**0.22**	53.91	**0.27**	45.82	**0.23**	7.28	**0.04**	6.23	**0.03**
		142	Sport and leisure facilities	90.96	**0.45**	82.60	**0.41**	107.85	**0.54**	51.33	**0.25**	46.61	**0.23**

Table S5. *Cont.*

CORINE 2006 Land Cover Classes			LHR		FCAR "CLM B1"		FCAR "REMO B1"		FCAR "REMO A1B"		FCAR "REMO A2"	
			km²	%	km²	%	km²	%	km²	%	km²	%
Agricultural areas	Arable land	211	Non-irrigated arable land	8313.54	**41.54**	13514.7	**67.46**	11651.2	**58.23**	9254.22	**44.62**	8811.71	**42.78**
		212	Permanently irrigated land	-	-	-	-	-	-	-	-	-	-
		213	Rice fields	-	-	-	-	-	-	-	-	-	-
	Permanent crops	221	Vineyards	-	-	101.16	**0.50**	-	-	313.01	**1.51**	189.65	**0.92**
		222	Fruit trees and berry plantations	148.55	**0.74**	17.24	**0.09**	5.56	**0.03**	107.00	**0.52**	82.41	**0.40**
		223	Olive groves	-	-	-	-	-	-	-	-	-	-
	Pastures	231	Pastures	2868.92	**14.34**	440.27	**2.20**	2177.07	**10.88**	2920.74	**14.08**	3371.38	**16.37**
	Heterogeneous agricultural areas	241	Annual crops associated with permanent crops	-	-	-	-	-	-	-	-	-	-
		242	Complex cultivation patterns	609.51	**3.05**	275.79	**1.38**	405.14	**2.02**	2551.70	**12.30**	2433.92	**11.82**
		243	Land principally occupied by agriculture, with significant areas of natural vegetation	663.12	**3.31**	248.15	**1.24**	283.64	**1.42**	564.65	**2.72**	522.21	**2.54**
		244	Agro-forestry areas	-	-	-	-	-	-	-	-	-	-

Table S5. *Cont.*

CORINE 2006 Land Cover Classes				LHR		FCAR "CLM B1"		FCAR "REMO B1"		FCAR "REMO A1B"		FCAR "REMO A2"	
				km²	%	km²	%	km²	%	km²	%	km²	%
Forest and semi natural areas	Forests	311	Broad-leaved forest	701.26	**3.50**	2903.28	**14.49**	3111.20	**15.55**	2578.39	**12.43**	2624.67	**12.74**
		312	Coniferous forest	3897.63	**19.48**	243.52	**1.22**	251.16	**1.26**	752.38	**3.63**	828.75	**4.02**
		313	Mixed forest	519.20	**2.59**	110.91	**0.55**	119.97	**0.60**	482.42	**2.33**	481.92	**2.34**
	Scrub and/or herbaceous vegetation associations	321	Natural grasslands	67.59	**0.34**	66.50	**0.33**	32.53	**0.16**	1.03	**0.00**	1.03	**0.01**
		322	Moors and heathland	174.16	**0.87**	14.56	**0.07**	4.55	**0.02**	28.81	**0.14**	42.41	**0.21**
		323	Sclerophyllous vegetation	-	**-**	-	**-**	-	**-**	-	**-**	-	**-**
		324	Transitional woodland-shrub	32.30	**0.16**	163.30	**0.82**	98.77	**0.49**	82.10	**0.40**	85.02	**0.41**
	Open spaces with little or no vegetation	331	Beaches, dunes, sands	0.69	**0.00**	1.94	**0.01**	-	**-**	12.67	**0.06**	9.04	**0.04**
		332	Bare rocks	-	**-**	-	**-**	-	**-**	-	**-**	-	**-**
		333	Sparsely vegetated areas	23.94	**0.12**	0.94	**0.00**	-	**-**	-	**-**	-	**-**
		334	Burnt areas	-	**-**	-	**-**	-	**-**	-	**-**	-	**-**
		335	Glaciers and perpetual snow	-	-	-	**-**	-	**-**	-	**-**	-	**-**
Wetlands	Inland wetlands	411	Inland marshes	16.33	**0.08**	18.39	**0.09**	15.26	**0.08**	1.56	**0.01**	4.56	**0.02**
		412	Peat bogs	93.33	**0.47**	-	**-**	-	**-**	-	**-**	-	**-**
	Maritime wetlands	421	Salt marshes	-	**-**	-	**-**	-	**-**	-	**-**	-	**-**
		422	Salines	-	**-**	-	**-**	-	**-**	-	**-**	-	**-**
		423	Intertidal flats	13.83	**0.07**	-	**-**	-	**-**	-	**-**	-	**-**

Table S5. *Cont.*

CORINE 2006 Land Cover Classes				LHR		FCAR "CLM B1"		FCAR "REMO B1"		FCAR "REMO A1B"		FCAR "REMO A2"	
				km²	%	km²	%	km²	%	km²	%	km²	%
Water bodies	Inland waters	511	Water courses	64.15	**0.32**	25.67	**0.13**	37.42	**0.19**	97.79	**0.47**	73.24	**0.36**
		512	Water bodies	60.00	**0.30**	48.29	**0.24**	50.00	**0.25**	29.84	**0.14**	102.26	**0.50**
	Marine waters	521	Coastal lagoons	-	-	-	-	-	-	-	-	-	-
		522	Estuaries	44.47	**0.22**	-	-	-	-	-	-	-	-
		523	Sea and ocean	-	-	-	-	-	-	-	-	-	-

Table S6. Results of the species pool comparisons (based on EBCC data [2]) and testing of conformity with the results of Huntley *et al*. [15] (species which neither occur in the LHR or the FCARs and are not projected by Huntley *et al*. for the LHR in the future are excluded). Note that this table documents the details of the derived regional trends for the community but is not designed for deriving trends for a single species.

EURING-Code	Species Name	Number of Occupied EOA Grid Cells in LHR	Results of Species Pool Comparison (Step One)				Results of Species Pool Comparison (Step Two)				Conformity of Huntley *et al.* [15] with Species Pool Comparisons (Step One)			
			FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"	FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"	FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"
00070	*Tachybaptus ruficollis*	8	r	r	r	r	→	→	→	→	1	1	1	1
00090	*Podiceps cristatus*	8	r	r	r	r	→	→	→	→	1	1	1	1
00100	*Podiceps grisegena*	3	l	l	l	l	↓↓	↓↓	↓↓	↓↓	1	1	1	1
00110	*Podiceps auritus*	1	l	l	l	l	↓↓	↓↓	↓↓	↓↓	1	1	1	1
00120	*Podiceps nigricollis*	4	r	r	r	r	↘	↘	↘	↘	0	0	0	0
00720	*Phalacrocorax carbo*	2	l	l	r	r	↓↓	↓↓	→	→	1	1	0	0

Table S6. *Cont.*

EURING-code	Species Name	Number of Occupied EOA Grid Cells in LHR	Results of Species Pool Comparison (Step One)				Results of Species Pool Comparison (Step Two)				Conformity of Huntley *et al.* [15] with Species Pool Comparisons (Step One)			
			FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"	FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"	FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"
00950	*Botaurus stellaris*	6	r	r	l	r	↘	↓	↓↓	↓	0	0	1	0
00980	*Ixobrychus minutus*	2	r	r	r	r	↗	↗	↗	↗	1	1	1	1
01040	*Nycticorax nycticorax*	0	X	X	a	a	X	X	↗↗	↗↗	0	0	1	1
01220	*Ardea cinerea*	7	r	r	r	r	→	↗	↗	↗	1	1	1	1
01240	*Ardea purpurea*	0	X	X	a	a	X	X	↗↗	↗↗	0	0	1	1
01310	*Ciconia nigra*	8	l	l	r	r	↓↓	↓↓	↓	↓	1	1	0	0
01340	*Ciconia ciconia*	7	l	l	r	r	↓↓	↓↓	↓	↓	1	1	0	0
01520	*Cygnus olor*	8	r	r	r	r	→	→	→	↘	0	0	0	0
01610	*Anser anser*	7	l	l	l	l	↓↓	↓↓	↓↓	↓↓	1	1	1	1
01710	*Tadorna ferruginea*	1	l	l	l	l	↓↓	↓↓	↓↓	↓↓	1	1	1	1
01730	*Tadorna tadorna*	6	r	l	l	l	↓	↓↓	↓↓	↓↓	0	1	1	1
01820	*Mareca strepera*	8	r	r	r	r	↓	↓	↘	↓	1	1	1	1
01840	*Anas crecca*	8	r	r	r	r	↘	↘	↘	↘	0	0	0	0
01860	*Anas platyrhynchos*	8	r	r	r	r	→	→	→	→	1	1	1	1
01890	*Anas acuta*	3	l	l	r	r	↓↓	↓↓	↘	↘	1	1	0	0
01910	*Anas querquedula*	8	r	r	r	r	↓	↓	↓	↓	1	1	1	1
01940	*Anas clypeata*	8	r	r	r	r	↘	↘	↘	↘	0	0	0	0
01960	*Netta rufina*	3	l	l	l	r	↓↓	↓↓	↓↓	↘	1	1	1	0
01980	*Aythya ferina*	6	r	r	r	r	↘	→	↗	↗	0	0	0	0

Table S6. *Cont.*

EURING-code	Species Name	Number of Occupied EOA Grid Cells in LHR	Results of Species Pool Comparison (Step One)				Results of Species Pool Comparison (Step Two)				Conformity of Huntley *et al.* [15] with Species Pool Comparisons (Step One)			
			FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"	FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"	FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"
02030	*Aythya fuligula*	8	r	r	r	r	↓	↘	↘	↘	0	0	0	0
02180	*Bucephala clangula*	3	l	l	l	l	↓↓	↓↓	↓↓	↓↓	1	1	1	1
02230	*Mergus merganser*	2	l	l	l	l	↓↓	↓↓	↓↓	↓↓	1	1	1	1
02310	*Pernis apivorus*	8	r	r	r	r	→	→	→	→	1	1	1	1
02380	*Milvus migrans*	5	r	r	r	r	↗	↘	↗	↗	1	1	1	1
02390	*Milvus milvus*	8	r	r	l	r	↓	↓	↓↓	↓	1	1	0	1
02430	*Haliaeetus albicilla*	1	l	l	l	l	↓↓	↓↓	↓↓	↓↓	1	1	1	1
02560	*Circaetus gallicus*	0	a	X	a	a	↗↗	X	↑↑	↑↑	1	0	1	1
02600	*Circus aeruginosus*	8	r	r	r	r	↘	↘	↘	↘	1	1	1	1
02610	*Circus cyaneus*	2	r	r	r	r	↑	↑	↑	↑	1	1	1	1
02630	*Circus pygargus*	6	r	r	r	r	→	↗	↗	↗	1	1	1	1
02670	*Accipiter gentilis*	8	r	r	r	r	↘	↘	→	→	1	1	1	1
02690	*Accipiter nisus*	8	r	r	r	r	→	→	→	→	1	1	1	1
02870	*Buteo buteo*	8	r	r	r	r	→	→	→	→	1	1	1	1
02980	*Hieraaetus pennatus*	0	a	X	a	a	↗↗	X	↗↗	↗↗	0	1	0	0
03010	*Pandion haliaetus*	1	l	l	l	l	↓↓	↓↓	↓↓	↓↓	1	1	1	1
03040	*Falco tinnunculus*	8	r	r	r	r	→	→	→	→	1	1	1	1
03100	*Falco subbuteo*	8	r	r	r	r	↘	↘	→	→	1	1	1	1
03320	*Tetrao tetrix*	5	l	l	l	l	↓↓	↓↓	↓↓	↓↓	1	1	1	1

Table S6. *Cont.*

EURING-code	Species Name	Number of Occupied EOA Grid Cells in LHR	Results of Species Pool Comparison (Step One)				Results of Species Pool Comparison (Step Two)				Conformity of Huntley *et al.* [15] with Species Pool Comparisons (Step One)			
			FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"	FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"	FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"
03580	*Alectoris rufa*	0	a	a	a	a	↗↗	↑↑	↑↑	↑↑	1	1	1	1
03670	*Perdix perdix*	8	r	r	r	r	→	→	→	→	1	1	1	1
03700	*Coturnix coturnix*	8	r	r	r	r	→	→	→	→	1	1	1	1
04070	*Rallus aquaticus*	8	r	r	r	r	→	→	→	→	1	1	1	1
04080	*Porzana porzana*	8	r	r	r	r	↓	↓	↓	↓	0	0	0	0
04100	*Porzana parva*	2	l	l	l	l	↓↓	↓↓	↓↓	↓↓	1	1	1	1
04110	*Porzana pusilla*	1	l	l	l	l	↓↓	↓↓	↓↓	↓↓	1	1	1	1
04210	*Crex crex*	7	r	r	r	r	↘	↓	→	↘	0	0	0	0
04240	*Gallinula chloropus*	8	r	r	r	r	→	→	→	→	1	1	1	1
04290	*Fulica atra*	8	r	r	r	r	→	→	→	→	1	1	1	1
04330	*Grus grus*	6	l	r	l	l	↓↓	↘	↓↓	↓↓	1	0	1	1
04420	*Tetrax tetrax*	0	a	a	a	a	↑↑	↗↗	↑↑	↑↑	0	0	0	0
04500	*Haematopus ostralegus*	5	l	l	l	l	↓↓	↓↓	↓↓	↓↓	1	1	1	1
04550	*Himantopus himantopus*	0	a	X	X	a	↗↗	X	X	↗↗	0	1	1	0
04560	*Recurvirostra avosetta*	2	l	l	l	l	↓↓	↓↓	↓↓	↓↓	1	1	1	1
04590	*Burhinus oedicnemus*	0	a	a	a	a	↑↑	↑↑	↑↑	↑↑	1	1	1	1
04690	*Charadrius dubius*	8	r	r	r	r	→	↘	→	→	1	1	1	1
04700	*Charadrius hiaticula*	2	l	l	l	l	↓↓	↓↓	↓↓	↓↓	1	1	1	1
04930	*Vanellus vanellus*	8	r	r	r	r	→	→	→	→	1	1	1	1

Table S6. *Cont.*

EURING-code	Species Name	Number of Occupied EOA Grid Cells in LHR	Results of Species Pool Comparison (Step One)				Results of Species Pool Comparison (Step Two)				Conformity of Huntley *et al.* [15] with Species Pool Comparisons (Step One)			
			FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"	FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"	FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"
05170	*Philomachus pugnax*	5	l	l	l	l	↓↓	↓↓	↓↓	↓↓	1	1	1	1
05190	*Gallinago gallinago*	8	r	r	r	r	↓	↘	↘	↘	0	0	0	0
05290	*Scolopax rusticola*	8	r	r	r	r	→	→	↘	↘	1	1	1	1
05320	*Limosa limosa*	8	l	l	l	r	↓↓	↓↓	↓↓	↓	1	1	1	0
05410	*Numenius arquata*	8	r	r	r	r	↓	↓	↘	↘	0	0	0	0
05460	*Tringa totanus*	7	l	l	r	l	↓↓	↓↓	↓	↓↓	1	1	0	1
05530	*Tringa ochropus*	6	l	l	l	l	↓↓	↓↓	↓↓	↓↓	1	1	1	1
05560	*Actitis hypoleucos*	6	r	r	r	r	↘	↘	↘	↘	1	1	1	1
05750	*Larus melanocephalus*	1	l	l	r	r	↓↓	↓↓	↗	→	1	1	0	0
05820	*Larus ridibundus*	5	r	r	r	r	↗	↗	↗	↗	1	1	1	1
05900	*Larus canus*	3	l	l	r	r	↓↓	↓↓	↘	↘	1	1	0	0
05910	*Larus graellsii*	0	X	X	a	a	X	X	↗↗	↗↗	1	1	0	0
05920	*Larus argentatus*	3	l	l	l	l	↓↓	↓↓	↓↓	↓↓	1	1	1	1
05927	*Larus michahellis*	0	X	X	a	a	X	X	↗↗	↗↗	0	0	1	1
06150	*Sterna hirundo*	4	r	r	r	r	↗	↘	↗	↗	1	1	1	1
06240	*Sterna albifrons*	2	r	l	r	r	↘	↓↓	↗	↗	1	0	1	1
06260	*Chlidonias hybridus*	0	X	X	X	a	X	X	X	↗↗	1	1	1	0
06270	*Chlidonias niger*	5	r	l	r	r	↘	↓↓	↘	↘	0	1	0	0
06680	*Columba oenas*	8	r	r	r	r	→	→	→	→	1	1	1	1

Table S6. *Cont.*

EURING-code	Species Name	Number of Occupied EOA Grid Cells in LHR	Results of Species Pool Comparison (Step One)				Results of Species Pool Comparison (Step Two)				Conformity of Huntley *et al.* [15] with Species Pool Comparisons (Step One)			
			FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"	FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"	FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"
06700	*Columba palumbus*	8	r	r	r	r	→	→	→	→	1	1	1	1
06840	*Streptopelia decaocto*	8	r	r	r	r	→	→	→	→	1	1	1	1
06870	*Streptopelia turtur*	8	r	r	r	r	→	→	→	→	1	1	1	1
07240	*Cuculus canorus*	8	r	r	r	r	→	→	→	→	1	1	1	1
07350	*Tyto alba*	8	r	r	r	r	→	→	→	→	1	1	1	1
07390	*Otus scops*	0	a	a	a	a	↗↗	↗↗	↑↑	↑↑	1	1	1	1
07510	*Glaucidium passerinum*	1	l	l	l	l	↓↓	↓↓	↓↓	↓↓	1	1	1	1
07570	*Athene noctua*	8	r	r	r	r	↘	→	→	→	1	1	1	1
07610	*Strix aluco*	8	r	r	r	r	→	→	→	→	1	1	1	1
07670	*Asio otus*	8	r	r	r	r	→	→	→	→	1	1	1	1
07680	*Asio flammeus*	5	r	r	r	r	↘	↘	→	↘	0	0	0	0
07700	*Aegolius funereus*	6	l	l	l	l	↓↓	↓↓	↓↓	↓↓	1	1	1	1
07780	*Caprimulgus europaeus*	8	r	r	r	r	↘	↘	→	→	1	1	1	1
07950	*Apus apus*	8	r	r	r	r	→	→	→	→	1	1	1	1
08310	*Alcedo atthis*	8	r	r	r	r	→	→	→	→	1	1	1	1
08400	*Merops apiaster*	2	r	r	l	l	↗	↘	↓↓	↓↓	1	1	0	0
08460	*Upupa epops*	2	r	r	r	r	↗	↑	↑	↑	1	1	1	1
08480	*Jynx torquilla*	8	r	r	r	r	↘	↘	↘	↘	1	1	1	1
08550	*Picus canus*	1	r	r	r	r	↗	↑	↑	↑	0	0	0	0

Table S6. *Cont.*

EURING-code	Species Name	Number of Occupied EOA Grid Cells in LHR	Results of Species Pool Comparison (Step One)				Results of Species Pool Comparison (Step Two)				Conformity of Huntley *et al.* [15] with Species Pool Comparisons (Step One)			
			FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"	FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"	FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"
08560	*Picus viridis*	8	r	r	r	r	→	→	→	→	1	1	1	1
08630	*Dryocopus martius*	8	r	r	r	r	↘	→	↘	↘	1	1	1	1
08760	*Dendrocopos major*	8	r	r	r	r	→	→	→	→	1	1	1	1
08830	*Dendrocopos medius*	7	r	r	r	r	↘	↘	↗	↗	1	1	1	1
08870	*Dendrocopos minor*	8	r	r	r	r	→	→	→	→	1	1	1	1
09680	*Calandrella brachydactyla*	0	a	a	X	X	↗↗	↗↗	X	X	1	1	0	0
09720	*Galerida cristata*	8	r	r	r	r	→	→	→	→	1	1	1	1
09740	*Lullula arborea*	8	r	r	r	r	↘	↘	→	→	1	1	1	1
09760	*Alauda arvensis*	8	r	r	r	r	→	→	→	→	1	1	1	1
09810	*Riparia riparia*	8	r	r	r	r	→	→	↘	↘	1	1	1	1
09920	*Hirundo rustica*	8	r	r	r	r	→	→	→	→	1	1	1	1
10010	*Delichon urbica*	8	r	r	r	r	→	→	→	→	1	1	1	1
10050	*Anthus campestris*	6	r	l	r	r	↓	↓↓	↘	↘	1	0	1	1
10090	*Anthus trivialis*	8	r	r	r	r	→	→	→	→	1	1	1	1
10110	*Anthus pratensis*	8	r	r	r	r	→	→	↘	→	0	0	0	0
10170	*Motacilla flava* ssp.	8	r	r	r	r	→	→	↘	↘	1	1	1	1
10190	*Motacilla cinerea*	8	r	r	r	r	→	→	→	→	1	1	1	1
10200	*Motacilla alba* ssp.	8	r	r	r	r	→	→	→	→	1	1	1	1
10500	*Cinclus cinclus*	1	r	l	l	r	↗	↓↓	↓↓	→	1	0	0	1

Table S6. *Cont.*

EURING-code	Species Name	Number of Occupied EOA Grid Cells in LHR	Results of Species Pool Comparison (Step One)				Results of Species Pool Comparison (Step Two)				Conformity of Huntley *et al.* [15] with Species Pool Comparisons (Step One)			
			FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"	FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"	FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"
10660	*Troglodytes troglodytes*	8	r	r	r	r	→	→	→	→	1	1	1	1
10840	*Prunella modularis*	8	r	r	r	r	→	→	→	→	1	1	1	1
10990	*Erithacus rubecula*	8	r	r	r	r	→	→	→	→	1	1	1	1
11030	*Luscinia luscinia*	2	l	l	l	l	↓↓	↓↓	↓↓	↓↓	1	1	1	1
11040	*Luscinia megarhynchos*	8	r	r	r	r	→	→	→	→	1	1	1	1
11060	*Luscinia svecica*	2	l	r	l	l	↓↓	↘	↓↓	↓↓	1	0	1	1
11210	*Phoenicurus ochruros*	8	r	r	r	r	→	→	→	→	1	1	1	1
11220	*Phoenicurus phoenicurus*	8	r	r	r	r	→	→	→	→	1	1	1	1
11370	*Saxicola rubetra*	8	r	r	r	r	↘	↘	↘	↘	1	1	1	1
11390	*Saxicola torquata*	8	r	r	r	r	→	→	→	→	1	1	1	1
11460	*Oenanthe oenanthe*	8	r	r	r	r	↓	↓	↓	↓	1	1	1	1
11870	*Turdus merula*	8	r	r	r	r	→	→	→	→	1	1	1	1
11980	*Turdus pilaris*	8	r	r	r	r	↘	↓	↓	↓	0	0	0	0
12000	*Turdus philomelos*	8	r	r	r	r	→	→	→	→	1	1	1	1
12010	*Turdus iliacus*	1	l	l	l	l	↓↓	↓↓	↓↓	↓↓	1	1	1	1
12020	*Turdus viscivorus*	8	r	r	r	r	→	→	→	→	1	1	1	1
12200	*Cettia cetti*	0	a	a	a	a	↑↑	↑↑	↑↑	↑↑	1	1	1	1
12260	*Cisticola juncidis*	0	X	X	a	a	X	X	↗↗	↗↗	0	0	1	1
12360	*Locustella naevia*	8	r	r	r	r	→	→	→	→	1	1	1	1

Table S6. *Cont.*

EURING-code	Species Name	Number of Occupied EOA Grid Cells in LHR	Results of Species Pool Comparison (Step One)				Results of Species Pool Comparison (Step Two)				Conformity of Huntley *et al.* [15] with Species Pool Comparisons (Step One)			
			FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"	FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"	FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"
12370	*Locustella fluviatilis*	7	l	l	l	l	↓↓	↓↓	↓↓	↓↓	1	1	1	1
12380	*Locustella luscinioides*	6	r	r	r	r	↘	↘	→	↘	1	1	1	1
12430	*Acrocephalus schoenobaenus*	8	r	r	r	r	→	→	→	↘	0	0	0	0
12500	*Acrocephalus palustris*	8	r	r	r	r	↘	↘	↓	↓	1	1	1	1
12510	*Acrocephalus scirpaceus*	8	r	r	r	r	→	→	→	→	1	1	1	1
12530	*Acrocephalus arundinaceus*	5	r	r	r	r	↗	↗	↘	↘	1	1	1	1
12590	*Hippolais icterina*	8	r	r	l	l	↓	↓	↓↓	↓↓	0	0	1	1
12600	*Hippolais polyglotta*	0	a	a	a	a	↑↑	↑↑	↑↑	↑↑	1	1	1	1
12620	*Sylvia undata*	0	a	a	a	a	↗↗	↗↗	↑↑	↑↑	0	0	0	0
12730	*Sylvia nisoria*	4	l	l	l	l	↓↓	↓↓	↓↓	↓↓	1	1	1	1
12740	*Sylvia curruca*	8	r	r	r	r	→	→	↘	↘	1	1	1	1
12750	*Sylvia communis*	8	r	r	r	r	→	→	→	→	1	1	1	1
12760	*Sylvia borin*	8	r	r	r	r	→	→	→	→	1	1	1	1
12770	*Sylvia atricapilla*	8	r	r	r	r	→	→	→	→	1	1	1	1
13070	*Phylloscopus bonelli*	0	a	a	a	a	↑↑	↑↑	↑↑	↑↑	1	1	1	1
13080	*Phylloscopus sibilatrix*	8	r	r	r	r	→	→	→	→	1	1	1	1
13110	*Phylloscopus collybita*	8	r	r	r	r	→	→	→	→	1	1	1	1
13120	*Phylloscopus trochilus*	8	r	r	r	r	→	→	↘	↘	1	1	1	1
13140	*Regulus regulus*	8	r	r	r	r	→	→	→	→	1	1	1	1

Table S6. *Cont.*

EURING-code	Species Name	Number of Occupied EOA Grid Cells in LHR	Results of Species Pool Comparison (Step One)				Results of Species Pool Comparison (Step Two)				Conformity of Huntley *et al.* [15] with Species Pool Comparisons (Step One)			
			FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"	FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"	FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"
13150	*Regulus ignicapillus*	8	r	r	r	r	→	→	↘	↘	1	1	1	1
13350	*Muscicapa striata*	8	r	r	r	r	→	→	→	→	1	1	1	1
13430	*Ficedula parva*	5	l	l	l	l	↓↓	↓↓	↓↓	↓↓	1	1	1	1
13490	*Ficedula hypoleuca*	8	r	r	r	r	↘	↓	↓	↓	0	0	0	0
13640	*Panurus biarmicus*	2	l	l	l	r	↓↓	↓↓	↓↓	↘	0	0	0	1
14370	*Aegithalos caudatus*	8	r	r	r	r	→	→	→	→	1	1	1	1
14400	*Parus palustris*	8	r	r	r	r	→	→	→	→	1	1	1	1
14420	*Parus montanus*	8	r	r	r	r	→	→	↘	↘	0	0	0	0
14540	*Parus cristatus*	8	r	r	r	r	→	→	→	→	1	1	1	1
14610	*Parus ater*	8	r	r	r	r	↘	→	→	→	1	1	1	1
14620	*Parus caeruleus*	8	r	r	r	r	→	→	→	→	1	1	1	1
14640	*Parus major*	8	r	r	r	r	→	→	→	→	1	1	1	1
14790	*Sitta europaea*	8	r	r	r	r	→	→	→	→	1	1	1	1
14860	*Certhia familiaris*	8	l	r	r	r	↓↓	↓	↓	↓	1	0	0	0
14870	*Certhia brachydactyla*	8	r	r	r	r	→	→	→	→	1	1	1	1
14900	*Remiz pendulinus*	7	l	l	l	l	↓↓	↓↓	↓↓	↓↓	0	0	0	0
15080	*Oriolus oriolus*	8	r	r	r	r	→	→	→	→	1	1	1	1
15150	*Lanius collurio*	8	r	r	r	r	↘	↘	→	→	1	1	1	1
15200	*Lanius excubitor*	8	r	r	r	r	↘	↘	↓	↓	1	1	1	1

Table S6. *Cont.*

EURING-code	Species Name	Number of Occupied EOA Grid Cells in LHR	Results of Species Pool Comparison (Step One)				Results of Species Pool Comparison (Step Two)				Conformity of Huntley *et al.* [15] with Species Pool Comparisons (Step One)			
			FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"	FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"	FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"
15230	*Lanius senator*	0	a	X	a	a	↗↗	X	↑↑	↑↑	1	0	1	1
15390	*Garrulus glandarius*	8	r	r	r	r	→	→	→	→	1	1	1	1
15490	*Pica pica*	8	r	r	r	r	→	→	→	→	1	1	1	1
15600	*Corvus monedula*	8	r	r	r	r	→	→	→	→	1	1	1	1
15630	*Corvus frugilegus*	4	r	r	r	r	↗	↗	↗	↗	0	0	0	0
15670	*Corvus corone* ssp.	8	r	r	r	r	→	→	→	→	1	1	1	1
15720	*Corvus corax*	8	l	l	l	l	↓↓	↓↓	↓↓	↓↓	1	1	1	1
15820	*Sturnus vulgaris*	8	r	r	r	r	→	→	→	→	1	1	1	1
15910	*Passer domesticus*	8	r	r	r	r	→	→	→	→	1	1	1	1
15980	*Passer montanus*	8	r	r	r	r	→	→	→	→	1	1	1	1
16040	*Petronia petronia*	0	X	X	a	a	X	X	↗↗	↗↗	1	1	0	0
16360	*Fringilla coelebs*	8	r	r	r	r	→	→	→	→	1	1	1	1
16380	*Fringilla montifringilla*	1	l	l	l	l	↓↓	↓↓	↓↓	↓↓	1	1	1	1
16400	*Serinus serinus*	8	r	r	r	r	→	→	→	→	1	1	1	1
16490	*Chloris chloris*	8	r	r	r	r	→	→	→	→	1	1	1	1
16530	*Carduelis carduelis*	8	r	r	r	r	→	→	→	→	1	1	1	1
16540	*Carduelis spinus*	8	l	l	l	r	↓↓	↓↓	↓↓	↓	1	1	1	0
16600	*Carduelis cannabina*	8	r	r	r	r	→	→	→	→	1	1	1	1
16630	*Carduelis flammea* ssp.	2	l	l	l	l	↓↓	↓↓	↓↓	↓↓	1	1	1	1

Table S6. *Cont.*

EURING-code	Species Name	Number of Occupied EOA Grid Cells in LHR	Results of Species Pool Comparison (Step One)				Results of Species Pool Comparison (Step Two)				Conformity of Huntley *et al*. [15] with Species Pool Comparisons (Step One)			
			FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"	FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"	FCAR "CLM B1"	FCAR "REMO B1"	FCAR "REMO A1B"	FCAR "REMO A2"
16660	*Loxia curvirostra*	7	r	r	r	r	↓	↘	↓	↘	0	0	0	0
16790	*Carpodacus erythrinus*	1	l	l	l	l	↓↓	↓↓	↓↓	↓↓	1	1	1	1
17100	*Pyrrhula pyrrhula*	8	r	r	r	r	→	→	→	→	1	1	1	1
17170	*Coccothraustes coccothraustes*	8	r	r	r	r	→	→	↘	↘	1	1	1	1
18570	*Emberiza citrinella*	8	r	r	r	r	→	→	→	→	1	1	1	1
18580	*Emberiza cirlus*	0	a	a	a	a	↑↑	↑↑	↑↑	↑↑	1	1	1	1
18660	*Emberiza hortulana*	8	r	l	r	r	↓	↓↓	↓	↓	1	0	1	1
18770	*Emberiza schoeniclus*	8	r	r	r	r	→	→	→	→	1	1	1	1
18820	*Miliaria calandra*	8	r	r	r	r	→	→	→	→	1	1	1	1

Results of species pool comparison (step one): r: "resident"; l: "potential leaver"; a: "potential arriver"; X: "irrelevant species". Results of species pool comparison (step two): ↑↑: Species absent in LHR (Lüneburg Heath region) but present in FCAR (future climatically analogous region) [high frequency]; ↗↗: Species absent in LHR but present in FCAR [low to moderate frequency]; ↑: Species with considerably higher frequency in FCAR than in LHR; ↗: Species with slightly to moderately higher frequency in FCAR than in LHR; →: Species with same frequency in FCAR and LHR; ↘: Species with slightly to moderately lower frequency in FCAR than in LHR; ↓: Species with considerably lower frequency in FCAR than in LHR; ↓↓: Species present in LHR but absent in FCAR; X: Species absent in LHR and FCAR. Conformity of Huntley *et al*. [15] with species pool comparisons (step one): 0: not conform (presence/absence); 1: conform (presence/absence).

Table S7. Additional data for "potential arrivers": distance of nearest occurrence of species to the LHR and breeding status in Lower Saxony, Germany.

EURING-Code	Species Name	Breeding Status in Lower Saxony [16]	Distance (Edge to Edge) of LHR to Closest Occupied EOA Grid Cell [2]
01040	*Nycticorax nycticorax*	Occasional breeder (year of last breeding record: 1863)	150 km
01240	*Ardea purpurea*	Occasional breeder (year of last breeding record: 1911)	150 km
02560	*Circaetus gallicus*	Regular breeder, extinct (year of last breeding record: 1860)	578 km
02980	*Hieraaetus pennatus*	-	445 km
03580	*Alectoris rufa*	-	364 km
04420	*Tetrax tetrax*	Occasional breeder (year of last breeding record: 1879)	445 km
04550	*Himantopus himantopus*	Occasional breeder (year of last breeding record: 2000)	50 km
04590	*Burhinus oedicnemus*	Regular breeder, extinct (year of last breeding record: 1969)	75 km
05910	*Larus graellsii*	Regular breeder	0 km
05927	*Larus michahellis*	-	48 km
06260	*Chlidonias hybridus*	-	205 km
07390	*Otus scops*	-	475 km
09680	*Calandrella brachydactyla*	-	651 km
12200	*Cettia cetti*	Occasional breeder (year of last breeding record: 1975)	198 km
12260	*Cisticola juncidis*	-	347 km
12600	*Hippolais polyglotta*	-	283 km
12620	*Sylvia undata*	-	617 km
13070	*Phylloscopus bonelli*	-	158 km
15230	*Lanius senator*	Regular breeder, extinct (year of last breeding record: 1964)	162 km
16040	*Petronia petronia*	-	707 km
18580	*Emberiza cirlus*	-	316 km

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