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Supplementary Information Files for 'Integrating habitat- and species-based perspectives for wetland conservation in lowland agricultural landscapes'

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Supplementary Material

ESM1. Codes (site code *sensu* Natura 2000, and abbreviation = Abb), names, area and details of the n = 18 Natura 2000 protected sites under study. SPA = Special Protection Area defined by the European Commission Birds Directive 79/409/EEC (now Directive 2009/147/EC); SIC = Site of Community Importance (SCI) defined by the European Commission Habitats Directive 92/43/EEC. SCC = species of conservation concern (HD = No. of species belonging to Annex II of the Habitats Directive, BD = No. of species belonging to Annex I of the Birds Directive); HCI = habitats of conservation interest (EU = habitats belonging to Annex I of the Habitat Directive; ITA = habitats belonging to the National List of threatened habitats *sensu* Genovesi et al. 2014).

Nò	Site Code	Name	ST	Abb	Area (ha)	SCC HD	BD	HCI EU	ITA
1	IT4020017	Aree delle risorgive di Viarolo, Bacini di Torrile, Fascia golenale del Po	SCI-SPA	VT	2622	11	32	7	3
2	IT4020018	Prati e Ripristini ambientali di Frescarolo e Samboseto	SPA	FS	1245	2	30	6	2
3	IT4020024	San Genesio	SPA	SG	277	1	23	4	2
4	IT4030007	Fontanili di Corte Valle Re	SCI	VR	877	4	24	4	2
5	IT4030015	Valli di Novellara	SCI-SPA	NO	1982	3	27	4	3
6	IT4030019	Cassa di Espansione del Tresinaro	SPA	ET	137	2	23	5	2
7	IT4040014	Valli Mirandolesi	SPA	MI	2726	3	36	7	2
8	IT4040015	Valle di Gruppo	SPA	VG	1456	3	26	4	2
9	IT4040017	Valle delle Bruciate e Tresinaro	SPA	BT	1100	1	19	5	2
10	IT4040018	Le Meleghine	SPA	ME	327	0	27	5	2
11	IT4050019	La Bora	SCI-SPA	BO	40	3	5	3	0
12	IT4050022	Biotopi e Ripristini Ambientali di Medicina e Molinella	SCI-SPA	MM	4021	6	43	8	3
13	IT4050023	Biotopi e Ripristini Ambientali di Budrio e Minerbio	SCI-SPA	BM	875	3	39	7	3
14	IT4050024	Biotopi e Ripristini Ambientali di Bentivoglio, San Pietro in Casale, Malalbergo e Baricella	SCI-SPA	BB	3206	6	39	7	3
15	IT4050025	Biotopi e Ripristini Ambientali di Crevalcore	SPA	CR	699	3	28	8	2
16	IT4050026	Bacini ex-zuccherificio di Argelato e Golena del fiume Reno	SPA	AR	314	2	31	4	2
17	IT4060008	Valle del Mezzano	SPA	VM	18866	3	41	5	3
18	IT4060017	Po di Primaro e Bacini di Traghetto	SPA	PT	1434	1	19	5	2

ESM2. List of the waterbirds recorded in the study area and belonging to the Annex 1 of the Birds Directive (79/409/EEC; now Directive 2009/147/EC) and their presence/absence data at Natura 2000 site scale (for abbreviations see ESM1).

Code	taxon	VT	FS	SG	VR	NO	ET	MI	VG	BT	ME	BO	MM	BM	BB	CR	AR	VM	PT
A021	Botaurus stellaris	x	x	x		x	x	x	x	x	x		x	x	x	x	x	x	x
A022	Ixobrychus minutus	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
A023	Nycticorax nycticorax	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
A024	Ardeola ralloides	x	x		x	x		x	x	x	x		x	x	x	x	x	x	
A026	Egretta garzetta	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
A027	Casmerodius albus (Egretta alba)	x	x	x	x	x	x			x	x		x	x	x	x	x	x	x
A029	Ardea purpurea	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	
A030	Ciconia nigra	x	x	x		x	x	x		x	x		x	x	x			x	
A031	Ciconia ciconia	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x
A032	Plegadis falcinell	x	x	x			x	x					x	x	x	x	x	x	
A034	Platalea leucorodia	x	x			x	x	x	x		x		x	x	x	x	x	x	x
A060	Aythya nyroca	x			x			x	x		x	x	x	x	x	x	x	x	
A073	Milvus migrans	x	x	x	x	x	x	x	x		x		x	x	x	x	x	x	x
A081	Circus aeruginosus	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x
A090	Aquila clanga	x	x					x					x	x	x			x	
A094	Pandion haliaetus			x	x		x	x	x	x	x		x	x	x	x	x	x	
A098	Falco columbarius				x	x		x					x	x	x	x	x	x	x
A119	Porzana porzana	x		x	x	x		x	x				x	x	x	x	x	x	
A120	Porzana parva	x				x		x	x				x	x	x	x	x	x	
A122	Crex crex				x														
A127	Grus gru					x		x					x	x	x			x	
A131	Himantopus himantopus	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x
A132	Recurvirostra avosetta	x	x	x				x					x	x	x	x	x	x	
A135	Glareola pratincola	x	x					x					x	x	x			x	

Code	taxon	VT	FS	SG	VR	NO	ET	MI	VG	BT	ME	BO	MM	BM	BB	CR	AR	VM	PT
A138	Charadrius alexandrinus							X					X	X	X	X	X	X	
A140	Pluvialis apricaria	X	X		X	X	X	X	X		X		X	X	X	X	X	X	X
A151	Philomachus pugnax	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
A154	Gallinago media	X	X		X		X	X	X		X		X	X	X		X	X	X
A157	Limosa lapponica												X						
A166	Tringa glareola	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
A176	Larus minutus												X	X	X			X	
A177	Larus melanocephalus										X		X	X	X		X	X	
A180	Larus genei												X	X				X	
A190	Sterna caspia												X	X	X		X	X	
A191	Sterna sandvicensis												X					X	
A193	Sterna hirundo	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
A195	Sterna albifrons	X	X	X		X	X	X	X		X		X	X	X	X	X	X	
A196	Chlidonias hybridus	X	X			X		X	X	X	X		X	X	X	X	X	X	X
A197	Chlidonias niger	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X	X
A222	Asio flammeus	X	X		X		X	X	X		X		X	X	X			X	
A229	Alcedo atthis	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
A231	Coracias garrulus			X	X	X													
A272	Luscinia svecica	X	X					X					X		X			X	
A293	Acrocephalus melanopogon	X			X	X		X	X	X	X		X	X	X			X	
A393	Phalacrocorax pygmeus			X									X						

ESM3. List of the non-bird species (both animals and plants) recorded in the study area and belonging to the Annex II of the Habitats Directive (92/43/EEC) and their presence/absence data at Natura 2000 site scale (for abbreviations see ESM1).

Code	taxon	VT	FS	SG	VR	NO	ET	MI	VG	BT	ME	BO	MM	BM	BB	CR	AR	VM	PT
1060	<i>Lycaena dispar</i>	x	x	x	x			x				x	x	x	x	x	x	x	
1082	<i>Graphoderus bilineatus</i>												x						
1092	<i>Austropotamobius pallipes</i>	x																	
1115	<i>Chondrostoma genei</i>	x											x						
1137	<i>Barbus plebejus</i>												x						
1140	<i>Chondrostoma soetta</i>	x																	
1149	<i>Cobitis taenia bilineata</i>	x			x											x			
1167	<i>Triturus carnifex</i>	x	x		x	x	x	x	x	x		x	x	x	x	x	x	x	
1215	<i>Rana latastei</i>	x														x			
1220	<i>Emys orbicularis</i>	x			x	x	x		x			x	x	x	x	x		x	x
1323	<i>Myotis bechsteini</i>	x																	
1324	<i>Myotis myotis</i>	x																	
1428	<i>Marsilea quadrifolia</i>	x				x		x	x							x			