

RARE, VULNERABLE AND PROTECTED BIRDS FROM THE REPEDEA-BÂRNOVA AREA – THE IAȘI COUNTY

BY

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Nowadays, a significant number of animal species are suffering a severe decline, both numerically and as to the surface of the area they occupy.

Introduction

The red lists and books represent alarm signals, drawing the attention on the danger to which the species under consideration are exposed, along with evidencing their situation and the main causes of their ecological problems.

Material and methods:

An official red list of the bird species on the territory of Romania does not exist. In May 1981, Dan Munteanu published a project of such a list, presenting some of the species in danger of extinction, rare species, species in regress, endangered and vulnerable species, on the Romanian territory.

Also, lists of the protected bird species occur as appendices to Regulation 103 on the cyngetic fund and game protection (issued September 1996, completed and re-published in May 2002). More complete lists of protected bird species have been elaborated as appendices of the urgent ordinance 236 (issued December 2000), on the regime of the protected natural areals, preservation of natural habitats, of the wild flora and fauna, to be completed in the appendices of regulation 462/2001, for the approval of the Ordinance 236/2000, promulgated by Decree 615 from July 2001.

A list of the bird species from the avifauna of Romania considered for the European conservation projects (SPEC), elaborated, for Romania, by Dan Munteanu, has been included in the volume entitled “Birds in Europe – their conservation statutes”, issued by BirdLife International. Four SPEC categories are to be mentioned, as follows:

- SPEC 1 category – globally – endangered species, occurring in Europe, which depend on conservation.
- SPEC 2 – species with populations concentrated in Europe, yet with conservation status unfavorable in Europe.

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- SPEC 3 – species whose global populations are not concentrated in Europe, with an unfavorable conservation status in Europe.
- SPEC 4 – species with global populations concentrated in Europe, with a favorable conservation status in Europe.

“Conservation of wild fauna and of natural habitats” actually represents the topic approached by the Council of Europe, held in Bern, September 1979, on occasion on which lists of same protected (III) and strictly protected (II) birds species for Europe have been drawn.

In the year 1994, The International Union for the conservation of Nature and the Natural Resources (IUCN) published the IUCN red list, along with the criterion in force for a certain species inclusion in such lists, starting from the evaluation of the species effectiveness, on considering the tendencies of their evolution.

The table that follows presents the species of birds rare, vulnerable and in danger of extinction from the Repedea – Bârnova area, Iași, to be found in all the above mentioned lists.

Table 1. Species of rare, vulnerable and in danger of extinction birds, in the Repedea – Bârnova areal

No.	Species	Red list	Law 103	Law 236	IUCN	SPEC	BER NA
1.	<i>Ciconia ciconia</i>	*	*	*		2	II
2.	<i>Ciconia nigra</i>	*	*	*		3	II
3.	<i>Aquila chrysaetos</i>	*	*	*		3	II
4.	<i>Aquila pomarina</i>	*	*	*		3	II
5.	<i>Buteo buteo</i>		*	*			II
6.	<i>Buteo lagopus</i>		*	*			II
7.	<i>Pernis apivorus</i>	*	*	*		4	II
8.	<i>Accipiter gentilis</i>	*	*	*			II
9.	<i>Accipiter nisus</i>	*	*	*			II
10.	<i>Milvus migrans</i>	*	*	*		3	II
11.	<i>Milvus milvus</i>	*	*	*		4	II
12.	<i>Circus macrourus</i>	*	*	*	*	3	II
13.	<i>Falco tinnunculus</i>		*	*		3	II
14.	<i>Falco subbuteo</i>	*	*	*			II
15.	<i>Falco vespertinus</i>	*	*	*		3	II
16.	<i>Perdix perdix</i>	*		*		3	

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No.	Species	Red list	Law 103	Law 236	IUCN	SPEC	BER NA
17.	<i>Coturnix coturnix</i>	*		*		3	
18.	<i>Crex crex</i>	*	*	*	*	1	II
19.	<i>Gallinula chloropus</i>			*			
20.	<i>Vanellus vanellus</i>			*			
21.	<i>Scolopax rusticola</i>			*		3	
22.	<i>Columba oenas</i>			*		4	
23.	<i>Columba palumbus</i>			*		4	III
24.	<i>Streptopelia decaocto</i>			*			
25.	<i>Streptopelia turtur</i>			*		3	
26.	<i>Cuculus canorus</i>			*			
27.	<i>Athene noctua</i>		*	*		3	II
28.	<i>Strix aluco</i>		*	*		4	II
29.	<i>Asio otus</i>		*	*			II
30.	<i>Strix uralensis</i>		*	*			II
31.	<i>Bubo bubo</i>	*	*	*		3	II
32.	<i>Caprimulgus eur.</i>		*	*		2	II
33.	<i>Alcedo atthis</i>	*	*	*		3	II
34.	<i>Merops apiaster</i>		*	*		3	II
35.	<i>Coracias garrulus</i>		*	*		2	II
36.	<i>Upupa epops</i>		*	*			II
37.	<i>Picus viridis</i>		*	*		2	II
38.	<i>Picus canus</i>		*	*		3	II
39.	<i>Dendrocopos major</i>		*	*			II
40.	<i>Dendrocopos syriacus</i>		*	*		4	II
41.	<i>Dendrocopos medius</i>		*	*		4	II
42.	<i>Dendrocopos minor</i>		*	*			II
43.	<i>Dendrocopos leucotos</i>	*	*	*			II

No.	Species	Red list	Law 103	Law 236	IUCN	SPEC	BER NA
44.	<i>Dryocopus martius</i>		*	*			II
45.	<i>Jynx torquilla</i>			*		3	II
46.	<i>Galerida cristata</i>		*	*		3	
47.	<i>Alauda arvensis</i>			*		3	
48.	<i>Lullula arborea</i>		*	*		2	
49.	<i>Riparia riparia</i>		*	*		3	II
50.	<i>Hirundo rustica</i>	*	*	*		3	II
51.	<i>Delichon urbica</i>		*	*			II
52.	<i>Anthus trivialis</i>		*	*			II
53.	<i>Anthus campestris</i>		*	*		3	II
54.	<i>Motacilla flava</i>		*	*			II
55.	<i>Motacilla alba</i>		*	*			II
56.	<i>Lanius collurio</i>		*	*		3	II
57.	<i>Lanius minor</i>		*	*		2	II
58.	<i>Lanius excubitor</i>		*	*		3	II
59.	<i>Oriolus oriolus</i>		*	*			II
60.	<i>Sturnus vulgaris</i>			*			III
61.	<i>Garrulus glandarius</i>			*			III
62.	<i>Pica pica</i>			*			III
63.	<i>Corvus monedula</i>			*		4	III
64.	<i>Corvus frugilegus</i>			*			III
65.	<i>Corvus corone cornix</i>			*			III
66.	<i>Corvus corax</i>	*	*	*			
67.	<i>Troglodytes trogl.</i>		*	*			II
68.	<i>Prunella modularis</i>		*	*		4	II
69.	<i>Hippolais icterina</i>		*	*		4	II
70.	<i>Sylvia atricapilla</i>		*	*		4	II
71.	<i>Sylvia borin</i>		*	*		4	II

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No.	Species	Red list	Law 103	Law 236	IUCN	SPEC	BER NA
72.	<i>Sylvia communis</i>		*	*		4	II
73.	<i>Sylvia curruca</i>		*	*			II
74.	<i>Phylloscopus collybita</i>		*	*			II
75.	<i>Phylloscopus sibilatrix</i>		*	*		4	II
76.	<i>Phylloscopus trochilus</i>		*	*			II
77.	<i>Regulus regulus</i>		*	*		4	II
78.	<i>Regulus ignicapillus</i>		*	*		4	II
79.	<i>Ficedula hypoleuca</i>		*	*		4	II
80.	<i>Ficedula albicollis</i>		*	*		4	II
81.	<i>Ficedula parva</i>		*	*			II
82.	<i>Muscicapa striata</i>			*		3	II
83.	<i>Oenanthe oenanthe</i>			*			
84.	<i>Saxicola rubetra</i>			*		4	II
85.	<i>Saxicola torquata</i>			*		3	II
86.	<i>Phoenicurus phoen.</i>		*	*		2	II
87.	<i>Phoenicurus ochruros</i>		*	*			II
88.	<i>Erithacus rubecula</i>		*	*		4	II
89.	<i>Luscinia luscinia</i>		*	*		4	II
90.	<i>Luscinia megarhynch.</i>		*	*		4	II
91.	<i>Turdus merula</i>		*			4	
92.	<i>Turdus philomelos</i>			*		4	
93.	<i>Turdus viscivorus</i>			*		4	
94.	<i>Turdus pilaris</i>					4	
95.	<i>Parus palustris</i>		*	*			II
96.	<i>Parus lugubris</i>		*	*		4	II
97.	<i>Parus caeruleus</i>		*	*		4	II

No.	Species	Red list	Law 103	Law 236	IUCN	SPEC	BER NA
98.	<i>Parus ater</i>		*	*			II
99.	<i>Parus major</i>		*	*			II
100.	<i>Aegithalos caudatus</i>		*	*			II
101.	<i>Sitta europaea</i>		*	*			II
102.	<i>Certhia familiaris</i>		*	*			II
103.	<i>Passer domesticus</i>						III
104.	<i>Fringilla coelebs</i>		*	*		4	
105.	<i>Fringilla montifringilla</i>			*			
106.	<i>Pyrrhula pyrrhula</i>		*	*			
107.	<i>Coccothraustes cocc.</i>			*			II
108.	<i>Serinus serinus</i>			*		4	II
109.	<i>Carduelis chloris</i>		*	*		4	II
110.	<i>Carduelis spinus</i>		*	*		4	II
111.	<i>Carduelis carduelis</i>		*	*			II
112.	<i>Carduelis cannabina</i>		*	*		4	II
113.	<i>Miliaria calandra</i>			*		4	
114.	<i>Emberiza citrinella</i>		*	*		4	II
115.	<i>Calcarius lapponicus</i>			*			II
116.	<i>Carpodacus erythrinus</i>			*			II
	Total	20	84	113	2	69	94

Results and discussions

Out of the 117 bird species identified in the Repede – Bârnova area, 116 are rare vulnerable or in danger of extinction.

The Red List proposed by Dan Munteanu for Romania includes 20 bird species to be found in the Repede – Bârnova avifauna (17.09%), grouped into 5 categories, as follows:

- 2 species in danger of extinction: *Aquila chrysaetos* occurring irregularly in the area, and *Milvus milvus* – a passage species;
- 6 endangered species, having suffered a severe regress in the XXth century, which caused their disappearance in certain regions of our country. These are: *Ciconia ciconia*, *Milvus migrans*, *Accipiter gentilis*, *Aquila pomarina*, *Circus macrourus* and *Bubo bubo*;
- 8 species in numerical regress, some of them being enough rare even in the Repedea – Bârnova areal: *Pernis apivorus*, *Alcedo atthis* and *Coturnix coturnix*, while *Hirundo rustica*, *Falco subbuteo* and *Falco vespertinus* represent more frequent species.
- 3 potentially – vulnerable species: *Ciconia nigra* – a rare, passage species, *Accipiter nisus* – a sedentary, quite rare species, *Dendrocopos leucotos* – identified only once in the beech forests of Dobrovăț although it might, be possibly, more numerous.
- A species in recovery as a result of its protection, *Corvus corax*.

In the Repedea – Bârnova avifauna there are present 84 birds species included in the appendices of Regulation 103, as well, that is 71.19% of the total avifauna. The contraventions applied to those disobeying this regulation are unfortunately, quite insignificant and do not succeed in stopping poaching

Much more comprehensive is the list of protected birds from the appendices of Regulation 236, in which 113 species from the Repedea – Bârnova area are to be found (i.e., 96.58%). This list leaves aside only 4 species of our region, namely: *Turdus merula*, *Turdus pilaris*, *Passer domesticus* and *Passer montanus*.

The IUCN red list includes only two bird species, namely: a species depending on conservation – *Circus macrourus*, a passage species for such region, and, respectively, *Crex crex*, summer guest and, probably, hatching species.

From the list of the species considered for the SPEC Conservation Projects in Europe, 69 species (58.97%) are to be met in the Repedea – Bârnova area, as follows:

- a globally – protected species (SPEC 1) – *Crex crex*.
- 7 species concentrated in Europe, with unfavorable statute (SPEC 2): *Ciconia ciconia* a numerous, passage species; *Caprimulgus europaeus* – summer guest, nesting, quite frequently; *Coracias garrulus* rare summer guest; *Picus viridis* – frequent sedentary species; *Lullula arborea* – summer guest noticed at Poieni; *Lanius minor* – summer guest observed only one time, in July 1998, in the Bârnova areal, and *Phoenicurus phoenicurus* – frequent summer guest.
- 26 species with unfavorable conservation status in Europe, the global population of which are not concentrated on the continent (SPEC 3). Among them, a certain part are sedentary, with reduced effectiveness: *Perdix perdix*, *Athene noctua*, *Bubo bubo*, or larger effectiveness: *Picus canus* and *Galerida cristata*. Others represent rare summer guests: *Aquila pomarina*, *Milvus migrans*, *Lanius excubitor*, *Riparia riparia*, *Muscicapa stia*, *Anthus campestris*, or more frequent: *Jynx torquilla*, *Hirundo rustica*, *Merops apiaster*.
- 35 species with global populations concentrated in Europe, with a favorable conservation status in Europe (SPEC 4). Among the rare summer guests, mention should

be made here of: *Pernis apivorus*, *Milvus milvus*, *Hippolais icterina*, *Saxicola rubetra*, and passage species: *Columba palumbus* and *Ficedula hypoleuca*.

The list of protected bird species elaborated by the Council of Europe – the Convention of Bern – includes 94 species (80.34%), 8 protected (III) and 86 strictly protected (II) species from the Repedea – Bârnova area.

Conclusions

Considering the great number of endangered bird species, as well as the decrease in numbers in Europe for the observable species in Repedea – Bârnova, we consider that this area should be classified as being a protected one.

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