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## **SYNTHESIS OF ORNITHOLOGICAL OBSERVATIONS FROM LACUSTRINE AND FOREST COMPLEX COMANA (1890-2008) (ROMANIA)**

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Abstract. The authors make a review of all data on the avifauna of Comana, from the end of 19th century to nowadays (along a period of 100 years), mentioning the rare or extinct species of this period, collected or observed. Also they make a list of 244 bird species known or collected from Comana along time.

Résumé. Les auteurs passent en revue toutes les données concernant l'avifaune de Comana, depuis la fin du 19-ème siècle jusqu'à présent (pour une période de plus d'un siècle), tout en mentionnant les espèces rares ou disparues au cours de ces années, collectées ou observées. Ils ont dressé une liste des 244 espèces d'oiseaux connues ou collectées à Comana durant ces années.

Key words: birds, Romania, Comana, observations, collection, statute of bird species.

### *INTRODUCTION*

From the first paper of ornithology published in Romania by Carol Walstein (1853) over 150 years have passed, and during this time, in a few works published as yet, we noticed a preference of the ornithologists for Comana's avifauna, a southern locality of the country, placed in Argeș river lower basin.

Paul de Alep visited it, in 1657, and found it "surrounded by lakes, pools and impenetrable swamps. We cannot talk about a road which goes as far as here...lakes don't freeze even in the most harsh winter."

Arnold Montandon (entomologist, Grigore Antipa's collaborator) wandered these places in 1880, making a first list and a few general observations on birds. For him, Comana was „a favoured place by nature, with forest and waters.“

Comana forest, relict of Codrul Vlăsiei which covered the region from Ploiești to the Danube, has a surface of 10000 ha, covered with shrubs specific to forest steppe: oak (*Quercus robur*), hornbeam (*Carpinus betulus*), Turkey oak (*Quercus cerris*), elm (*Ulmus procera*) and others.

Comana lake, with a surface of around 600 ha, is covered with reed, sedge and bulrush. It is more like a swamp in Neajlov's meadow, covered by vegetation, here and there by sand banks. Only to the lake edges a few very deep water surfaces occur. During summer, water temperature reaches quite high values, up to 30°C. Freezing period lasts 1-2 months per year, icebridge reaching 20-30 cm, in hard winters.

### *MATERIAL AND METHOD*

For drawing up this synthesis we used all the data on the avifauna of Comana, until 2008, inclusively the exhibits of „Grigore Antipa” National Museum of Natural History (București), old inventory registers from where we selected the species collected from Comana, which, in the meantime, were transferred or

removed from the inventory because of their deterioration. We made a table where we included the bird species observed or collected from Comana, from the published papers and notes along time, from collections.

#### RESULTS AND DISCUSSIONS

From the analysis of the data that we have from the last 100 years, as avifaunistic observations in Comana, three periods distinguish:

##### 1. 1840-1930

It is possible that the first observations and bird collecting in the Comana area to be made by Carol Walstein, the first ornithologist of Zoological Museum from Bucharest, during 1837-1859. Exact data didn't remain recorded, only that this specialist had made numerous fieldtrips for material collecting. The same for Carlo Ferreratti, his successor. We don't know exactly if he had been or not in Comana. The birds collected by them were identified up to the species level, but the data don't appear on the labels or in the inventory registers.

In 1903, Ion Licherdopol published a catalogue with the pieces of his private collection, exhibited to a Science Congress, including species collected in Comana: *Buteo buteo* (naturalized), *Turdus merula* (nest), *Turdus philomelos* (nest), *Sylvia nisoria*, *Sylvia atricapilla*, *Fringilla coelebs* (eggs). Although this catalogue appeared in 1903, towards the end of Licherdopol's life, the observations and collecting from Comana Forest were made by him long time ago, probably between 1870 - 1890, when he was employed assistant in the Museum of Natural History of Bucharest and collaborator of Professor Gregoriu Ștefănescu, director of the museum. Unfortunately in this catalogue collecting data are not mentioned.

About Robert Dombrowski (ornithologist and taxidermist of the Museum of Natural History between 1895 - 1916) we know that he made numerous observations and that he collected birds from this area. Unfortunately, a few specimens were preserved. From them, we mention: *Motacilla flava beema* (adult ♂, 14-15.IV.1905); *Strix uralensis* (II.1905) present in museum's collections until 1965, then transferred to Constanța; *Pelecanus crispus* (13.IX.1900); *Aquila clanga* (19.III.1898); *Eremophila alpestris flava* (XI.1896); *Parus lugubris* (18.XI.1890); *Haematopus ostralegus* (5.IV.1896) which he observed in small flocks, of 7-13 specimens, in the flooded field near Comana. This species had never been mentioned after that in Comana area. These specimens are included in the both catalogues of Bird Collection of „Grigore Antipa” Museum from Bucharest (Papadopol & Tâlpeanu 1986, 1987).

In „*Ornis Romaniae*” by Dombrowski (1912) (translated volume and completed with new data by Linția, published in 1946, 1955, 1956) there are references to other species collected from Comana: *Carduelis carduelis carduelis* (20.IX.1900), *Motacilla flava flava* (14.IV.1905), *Lanius excubitor excubitor* (2.IV.1903), *Bombycilla garrulus* (16.XI.1903), *Pernis apivorus* (19.VI.1896) or *Parus cyanus* on which he noted that he observed it from a short distance (20.X.1899) but without being able to collect it.

Before 1932 we couldn't find any reference to Comana from avifaunistic point of view, after Dombrowski left the country, after the World War I.

## 2. 1930-1950

The observations and ringings made by Cătuneanu (49 chicks of *Ciconia ciconia* 1946 and 1949) (Cătuneanu, 1999) are the only references we have from this period of time; specimens collected by Nicolae Semen (taxidermist in „Grigore Antipa” Museum of Natural History) and some of birds remained from Iosif Enăchescu collection (merchant of naturalized birds) from Bucharest: *Picus canus* (X.1949; VIII.1949); *Dendrocopos major* (V.1936); *Oriolus oriolus* (15.V.1949; V.1936), *Falco peregrinus* (IV.1938; V.1938); *Pernis apivorus* (IV.1940); *Columba oenas* (3.IV.1938).

## 3. 1950-2008

The richest period in observations and collecting from Comana forest and Comana lake is between 1950 and 1970, when references on the species and observations on the area were made. (Papadopol, 1965, 1967, 1989; Papadopol & Tălpeanu, 1979, 1986, 1987; Vielliard & Tălpeanu, 1971). References to Comana appear in a few papers dedicated to some species like: *Pandion haliaetus* (Radu et al., 1962), Falconiformes (Tălpeanu, 1967), *Accipiter nisus* (Cătuneanu, 1963), *Alcedo atthis* (Papadopol, 1965), *Passer domesticus*, *Passer montanus* (Cătuneanu & Theiss, 1965), *Motacilla flava feldegg* (Cătuneanu et al., 1962), *Falco peregrinus brookei* (Papadopol, 1980), *Pica pica* (Cătuneanu, 1982), *Scolopax rusticola* (Mătieș & Munteanu, 1979), *Buteo lagopus*, *Accipiter nisus*, *Strix aluco* (Petrescu, 1992), *Merops apiaster* (Petrescu, 2004), etc.

First study over Comana's avifauna during winter is published by Bologa (1972), when they observed over 40 bird species.

Observations and special collected species: *Aquila pomarina* (IV.1952); *Hieraetus pennatus* (IV.1951, 3.VIII.1953); *Gavia arctica* (3.X.1951) (Kovats, 1968; Cătuneanu et al., 1978), *Plegadis falcinellus* (1953); *Eudromias morinellus* (14.IX.1952), *Pluvialis apricaria altifrons* (11.XI.1973); *Lymnocyptes minimus* (5.IV.1964); *Calidris minuta* (11.IX.1959); *Motacilla cinerea* (25.III.1957); *Prunella modularis* (1967); *Himantopus himantopus* (27.VIII.1983); *Numenius arquata* (1988), the last two were collected by Matei Tălpeanu; *Glareola nordmanni* was collected by Bogdan Iordăchescu (15.VIII.1976) between Grădiștea and Comana. Black-winged Pratincole is a very rare specie for Romania (Papadopol & Tălpeanu, 1987 cited by Papadopol & Petrescu, 1995); Other observations - *Ciconia nigra* (Manolache & Rossler, 1963); *Milvus milvus* and *M. migrans* (Papadopol, 1960, 1965, 1967) and *Pandion haliaetus* (Radu et al., 1962).

The ringings made between 1954 and 1968 pursued only *Ciconia ciconia*; 266 chicks were ringed, by Ion Cătuneanu. Other ringed species: *Jynx torquilla*, *Sylvia nisoria*, *S. borin*, *Erithacus rubecula*, *Turdus merula*, *Parus major*, ringings being made by Matei Tălpeanu and Ion Cătuneanu. Totally 17 species were ringed.

First special study dedicated to the avifauna of Comana were published in 1995 (Papadopol & Petrescu, 1995). Our observations at Comana complete the bird list with new observations till 1995. In addition to the known species: *Anas platyrhynchos*, *A. strepera*, *Aythya ferina*, *A. nyroca*, we mentioned: *Anas clypeata* (8.II.1989, 3.XI.1989, 14.III.1990, about 70 specimens, 2.IV.1991, about 23 specimens); *A. acuta* (3.XI.1989, 14.III.1990, 2.IV.1991, about 30 specimens); *A. querquedula* (14.III.1990, about 80 specimens, 3.XI.1989); *A. penelope* (14.III.1990, 2.IV.1991). Anatids are little known, not only qualitatively, but also quantitatively (the quantitative estimations for this area are missing in literature). We report the following associations of Anatids on Comana: *Anas platyrhynchos*

(always in a large number) – *A. crecca*; *A. platyrhynchos* - *A. clypeata* - *A. acuta* - *Aythya ferina* - *A. nyroca*. We always have observed *Anas penelope* in small flocks on small puddles well camouflaged by reed.

Other species mentioned in this study at Comana: *Recurvirostra avosetta* 8.VIII.1989 (four specimens); *Limosa limosa* 8.VIII.1989 (about 90 specimens); *Egretta alba* 8.VIII.1989, 6.IX.1989 - at the ponds near Comana Monastery; *Dryocopus martius* 8.VIII.1989 - three specimens in the forest, near the forest range. We have synthesized the observations in a list of 212 species, with 70 bird species more than it has been already known (Papadopol & Petrescu, op.cit).

In 1990-1991, Ionescu (1991) published short notes with specific observations, at Comana, on five species: *Casmerodius albus*, *Ciconia nigra*, *Melanitta fusca*, *Arenaria interpres*, *Himantopus himantopus*, out of which *Melanitta fusca* and *Arenaria interpres* are reported for the first time.

Within next years, avifauna of Comana has been studied by Hodor et al. (1998), who published a study on aquatic bird species, reporting some species which had never been reported before in this place: *Tadorna tadorna*, *Sterna albifrons*, *Gelochelidon nilotica*, *Hydroprogne tschegrava*, *Tringa stagnatilis*, *Calidris alba*, *Calidris ferruginea*, etc.

Our observations continued after 2000 and they are presented in table 1. A series of information on the collected species from this area are also included in our collection catalogues that we have published. (Petrescu & Chișamera, 2003; Petrescu, 2005).

New information on different sectors of Comana Forest that had never been studied before are appearing, like Fântânele Forest (Paucă-Comănescu et al., 2001), where Matei Tâlpeanu and Maria Paspaleva made a list of 66 bird species. Other notes and short studies like the ones made by Dima & Doroșencu (2000) and Papadopol & Petrescu (2004) are much more informative.

Also during the last ten years some extensive studies on biodiversity of Comana area were developed, within several national projects, „Research of taxonomic biodiversity of wetlands Comana, Cernica, Snagov, Mostiștea” (Tesio, 2005) or „Restoration of Comana Lake”, LIFE project financed by European Union conducted by Forest Research and Management Institute, Bucharest, developing a long period of 2 years (2002-2004).

Avifauna of Comana is represented by 245 species, out of which 89 species were collected between 1895-1970 and are preserved in the collection of „Grigore Antipa” Museum. The forest and the meadow of Comana have a very rich and varied avifauna, but we found out that it wasn't sufficiently studied. A few papers dedicated especially to this avifauna were published by: Bologa (1972), Papadopol & Petrescu (1995), Hodor et al. (1998).

Along time, forest avifauna suffered less qualitatively, being almost unchanged from the beginning of the last century. We consider that this state is due to the species adaptation to this environment and also due to the statute of forest reservation which it has been keeping for years.

The large birds of prey suffered, qualitatively and quantitatively, more than others, and *Aquila pomarina*, *A. clanga*, *Hieraaetus pennatus* were no longer observed.

Because of the configuration changing of the wetland area of Comana, Limicolae and other aquatic birds have reduced populations. Most of them find food in the ponds close to the monastery, at this moment.

Taking account of the great number of species that stopped here along time during their migrations, finding here a refuge for rest and food, the Comana forest and the lake, now an ornithological reserve, will continue to be a preferred area for the birds which will offer many surprises to the ornithologists.

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#### SINTEZA OBSERVAȚIILOR ORNITOLOGICE ASUPRA COMPLEXULUI BĂLȚII ȘI PĂDURII COMANA (1890-2008) (ROMÂNIA)

#### REZUMAT

Autorii realizează o trecere în revistă a tuturor informațiilor pe care le dețin despre avifauna Comanei, de la sfârșitul secolului al XIX-lea și până astăzi (pe o perioadă de peste 100 ani), numind speciile rare sau dispărute între timp din faună, colectate sau observate. De asemenea, alcătuiesc o lista cu 244 de specii de păsări cunoscute sau colectate în decursul timpului de la Comana.

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Table 1

Species	Bird Phenology	Dombrowski, 1895-1912	Papadopol, 1960, 1965, 1967	Bologa, 1972	Papadopol, 1995	Hodor et al., 1998-1999	Pauca-Comanescu et al., 2000-2001	Petrescu, Chișamera, 2000-2008	Grigore Antipa Museum coll.	European Threat Status
<i>Gavia arctica</i> (L., 1758)	Wv VR				+				+	V
<i>Gavia stellata</i> (Pont., 1763)	Wv VR				+					V
<i>Tachybaptus ruficollis</i> (Pall., 1764)	Ne Sv C		+		+	+		+		S
<i>Podiceps nigricollis</i> C. L. Brehm, 1831	Ne Sv C		+		+	+		+		S
<i>Podiceps cristatus</i> (L., 1758)	Ne Sv C		+		+	+		+		S
<i>Podiceps griseogen</i> (Bodd., 1783)	Tr R Sv		+		+	+		+		S
<i>Phalacrocorax carbo sinensis</i> (Blum., 1798)	Tr R				+	+		+		S
<i>Phalacrocorax pygmaeus</i> (Pall., 1773)	Tr R		+		+	+		+		V
<i>Pelecanus onocrotalus</i> L., 1758	Ac VR				+	+				R
<i>Pelecanus crispus</i> Bruch, 1832	Ac VR	+			+	+			+	V
<i>Ardea cinerea</i> (L., 1758)	Ne Sv UC		+		+	+		+		S
<i>Ardea purpurea</i> (L., 1766)	Ne Sv UC		+		+	+		+		V
<i>Ixobrychus minutus</i> (L., 1766)	Ne Sv C		+		+	+		+		(V)
<i>Nycticorax nycticorax</i> (L., 1758)	Ne Sv C		+		+	+		+		D
<i>Ardeola ralloides</i> (Scopp., 1769)	Ne Sv UC		+		+	+		+		V
<i>Casmerodius albus</i> (L., 1758)	Tr w				+	+		+		S
<i>Egretta garzetta</i> (L., 1766)	Ne Sv UC		+		+	+		+		S
<i>Botaurus stellaris</i> (L., 1758)	Ne Sv UC		+		+	+		+		(V)
<i>Ciconia nigra</i> (L., 1758)	Ne VR		+		+	+		+		R
<i>Ciconia ciconia</i> (L., 1758)	Ne Sv UC		+		+	+		+		V
<i>Platalea leucorodia</i> L., 1758	Ac VR T				+	+		+		E
<i>Plegadis falcinellus</i> (L., 1766)	Ac VR T		+		+	+		+		D
<i>Cygnus olor</i> (Gmel., 1789)	Ne R T				+	+		+		S
<i>Cygnus cygnus</i> (L., 1758)	Wv R				+	+		+		S
<i>Anser albifrons</i> (Scop., 1769)	Wv T UC		+		+	+		+		S

Table 1 (continued)

Species	Bird Phenology	Dombrowski, 1895-1912	Papadopol, 1960, 1965, 1967	Bologa, 1972	Papadopol, 1995	Hodor et al., 1998-1999	Pauca-Comănescu et al., 2000-2001	Petrescu, Chisamera, 2000-2008	Grigore Antipa Museum coll.	European Threat Status
<i>Anser anser</i> (Swinhoe, 1871)	T C-UC		+		+	+				S
<i>Anser erythropus</i> (L., 1758)	Wv VR Ac				+					V
<i>Tadorna ferruginea</i> (Pall., 1764)	Ac VR				+				+	V
<i>Tadorna tadorna</i> (L., 1758)	Ac VR					+				S
<i>Anas platyrhynchos</i> (L., 1758)	Ne Se C w		+		+	+		+		S
<i>Anas crecca</i> (L., 1758)	Wv C Ab				+	+		+	+	S
<i>Anas querquedula</i> (L., 1758)	Ne Se T C				+	+		+		V
<i>Anas strepera</i> (L., 1758)	Ne Se C		+		+	+		+		V
<i>Anas penelope</i> (L., 1758)	T Wv UC				+	+		+		S
<i>Anas acuta</i> (L., 1758)	T Wv R				+	+		+		V
<i>Anas clypeata</i> (L., 1758)	T Wv UCo				x	+		+		S
<i>Aythya ferina</i> (L., 1758)	Ne Sv UCT		+		+	+		+		S
<i>Aythya nyroca</i> (Guldenst., 1770)	Ne Sv UC T		+		+	+		+		V
<i>Aythya fuligula</i> (L., 1758)	T C-UC				+	+		+		S
<i>Melanitta fusca</i> (L., 1758)•	Ac VR									LW
<i>Mergus merganser</i> L., 1758	Wv Ac VR				+					S
<i>Mergus albellus</i> L., 1758	Wv Ac R				+					V
<i>Perdix perdix</i> (L., 1758)	Ne Se C		+		+	+		+	+	V
<i>Coturnix coturnix</i> (L., 1758)	Ne Sv C		+		+			+		V
<i>Phasianus colchicus</i> (L., 1758)	Ne Se C		+	+	x	+		+		S
<i>Fulica atra</i> (L., 1758)	Ne Sv VC		+		+	+		+	+	S
<i>Rallus aquaticus</i> (L., 1758)	Ne Sv UC		+		+	+		+	+	S
<i>Crex crex</i> (L., 1758)	Ne Sv UC		+		+	+	+	+	+	(S)
<i>Gallinula chloropus</i> (L., 1758)	Ne Sv UC		+		+	+		+		V
<i>Porzana porzana</i> (L., 1766)	Ne Sv R		+		+	+	+	+	+	S

Table 1 (continued)

Species	Bird Phenology	Dombrowski, 1895-1912	Papadopol, 1960, 1965, 1967	Bologa, 1972	Papadopol, 1995	Hodor et al., 1998-1999	Fauca-Comanescu et al., 2000-2001	Petrescu, Chișamera, 2000-2008	Grigore Antipa Museum coll.	European Threat Status
<i>Porzana parva</i> (Scop., 1769)	Ne Sv UC		+		+		+		+	(S)
<i>Porzana pusilla intermedia</i> (Herm., 1804)	Sv R						+			R
<i>Grus grus</i> (L., 1758)	T R Ac				+					V
<i>Aquila clanga</i> Pall., 1811	T Ac VR	+			+					E
<i>Aquila pomarina</i> C. L. Brehm, 1831	Ne VR T		+		+	+			+	R
<i>Hieraaetus pennatus</i> (Gmel., 1788)	Ne Sv VR		+		+		+		+	R
<i>Milvus migrans</i> (Bodd., 1783)	Ne Sv VR		+		+		+			V
<i>Milvus milvus</i> (L., 1758)	T VR		+		+		+			S
<i>Accipiter nisus</i> (L., 1758)	T Wv UC		+	+	+	+	+	+		S
<i>Accipiter gentilis</i> (L., 1758)	Ne T Wv UC	+	+		+	+	+	+	+	S
<i>Accipiter brevipes</i> (Sev., 1850)	T Wv VR				+		+			R
<i>Pernis apivorus</i> (L., 1758)	Ne Sv VR, T	+	+		+	+	+	+	+	S
<i>Circus gallicus</i> (Gmel., 1788)	T VR						+			R
<i>Circus macrourus</i> (Gmel., 1771)	Ne Sv R, T R						+			E
<i>Circus cyaneus</i> (L., 1766)	T VR		+	+	+	+	+	+		V
<i>Circus pygargus</i> (L., 1758)	T VR						+	+		S
<i>Circus aeruginosus</i> (L., 1758)	Ne Sv R T R		+		+	+	+	+	+	S
<i>Buteo buteo</i> (L., 1758)	Ne Se Wv		+	+	+	+	+	+	+	S
<i>Buteo lagopus</i> (Pont., 1763)	Wv UC		+	+	+	+	+	+	+	S
<i>Pandion haliaetus</i> (L., 1758)	T Ac VR			+	+	+	+	+		R
<i>Haliaeetus albicilla</i> (L., 1758)	T Ac VR				+	+	+	+		R
<i>Falco tinnunculus</i> (L., 1758)	Ne Sv UC	+	+		+	+	+	+	+	D
<i>Falco subbuteo</i> (L., 1758)	Ne Sv UC R		+		+	+	+	+	+	S
<i>Falco columbarius aesalon</i> Tunst., 1771	Wv VR				+	+	+	+	+	S

Table 1 (continued)

Species	Bird Phenology	Dombrowski, 1895-1912	Papadopol, 1960, 1965, 1967	Bologa, 1972	Papadopol, Petrescu, 1995	Hodor et al., 1998-1999	Pauca-Comanescu et al., 2000-2001	Petrescu, Chisamera, 2000-2008	Grigore Antipa Museum coll.	European Threat Status
<i>Falco vespertinus</i> (L., 1766)	Ne Sv R		+	+	+	+		+	+	V
<i>Falco peregrinus</i> Tunst., 1771	T VR				+		+		+	R
<i>Falco cherrug danubialis</i> Kleinschm., 1939	T VR						+			E
<i>Larus ridibundus</i> (L., 1758)	Ne Se UC		+		+	+		+		S
<i>Larus canus</i> (L., 1758)	T Wv		+		+	+		+		D
<i>Larus minutus</i> Pall., 1776	TR				+	+		+		D
<i>Larus cachinnans</i> Pall., 1811	T UC				+	+		+		(S)
<i>Stercorarius parasiticus</i> (L., 1758)	T Ac					+				(S)
<i>Chlidonias niger</i> (L., 1758)	Ne Sv R		+		+	+		+		D
<i>Chlidonias hybridus</i> (Pall., 1811)	Ne Sv UC		+		+	+		+	+	D
<i>Sterna hirundo</i> (L., 1758)	Ne Sv T UC		+		+	+				S
<i>Sterna albifrons</i> Pall., 1764	T VR					+				D
<i>Gelochelidon nilotica</i> (Gmel., 1789)	T VR					+				(E)
<i>Hydroprogne ischegrava</i> (Lepech., 1770)	T VR					+				(E)
<i>Glareola nordmanni</i> Nordmann, 1842	T Ac VR				+				+	R
<i>Haematopus ostralegus</i> L., 1758	T Ac	+			x					S
<i>Tringa glareola</i> L., 1758	T UC		+		+	+		+	+	D
<i>Tringa totanus</i> (L., 1758)	T UC R				+	+				D
<i>Actitis hypoleucos</i> L., 1758	T UC R				+	+				S
<i>Tringa erythropus</i> (Pall., 1764)	TR				+	+		+		S
<i>Tringa stagnatilis</i> (Bechst., 1803)	TR					+				(S)
<i>Tringa nebularia</i> (Gunn., 1767)	T UC R		+		+	+			+	S
<i>Tringa ochropus</i> L., 1758	Sv T UC		+		+	+				(S)
<i>Scolopax rusticola</i> L., 1758	T UC		+		+				+	V
<i>Gallinago gallinago</i> (L., 1758)	T UC		+		+	+			+	(S)

Table 1 (continued)

Species	Bird Phenology	Dombrowski, 1895-1912	Papadopol, 1960, 1965, 1967	Bologa, 1972	Papadopol, 1995	Hodor et al., 1998-1999	Pauca-Comanescu et al., 2000-2001	Petrescu, Chișamera, 2000-2008	Grigore Antipa Museum coll.	European Threat Status
<i>Gallinago media</i> (Lath., 1787)	T R		+		+				+	(V)
<i>Lymnocyrtus minutus</i> (Brunn., 1764)	T R				+				+	(V)
<i>Numenius arquata</i> (L., 1758)	T R		+		+	+				D
<i>Limosa limosa</i> (L., 1758)	T U C C				+	+		+		V
<i>Calidris minuta</i> (Leisl., 1812)	T U C				+	+			+	(S)
<i>Calidris alpina alpina</i> (L., 1758)	T U C				+	+				V
<i>Calidris alba</i> (Pall., 1764)	T U C					+				(S)
<i>Calidris ferruginea</i> (Pont., 1763)	T V R					+				-
<i>Arenaria interpres</i> (L., 1758) •	T V R									S
<i>Philomachus pugnax</i> (L., 1758)	T U C	+	+		+	+		+	+	(S)
<i>Limicola falcinellus</i> (Pont., 1763)	T V R					+				(V)
<i>Charadrius dubius curonicus</i> Gm., 1789	T Sv UC		+		+	+		+	+	(S)
<i>Charadrius hiaticula hiaticula</i> Gm., 1789	T V R		+		+	+				S
<i>Vanellus vanellus</i> (L., 1758)	Ne Sv C				+	+		+	+	(S)
<i>Eudromias morinellus</i> (L., 1758)	T Sv VR				+	+			+	(S)
<i>Pluvialis apricaria altifrons</i> (C. L. Brehm, 1831)	T U C R				+				+	S
<i>Pluvialis squatarola</i> (L., 1758)	T R					+				(S)
<i>Recurvirostra avosetta</i> L., 1758	Ne Sv R				+	+		+		LW
<i>Himantopus himantopus</i> (L., 1758)	Ne Sv R		+		+	+		+	+	S
<i>Cuculus canorus</i> (L., 1758)	Ne Sv C		+		+	+		+	+	S
<i>Streptopelia decaocto</i> (Fris., 1838)	Ne Sv C		+		+	+		+	+	(S)
<i>Streptopelia turtur</i> (L., 1758)	Ne Sv UC R		+		+	+		+	+	D
<i>Columba livia domestica</i> L., 1758	Ne Sv C					+		+	+	S
<i>Columba palumbus</i> L., 1758	Ne Sv UC R		+		+	+		+	+	S

Table 1 (continued)

Species	Bird Phenology	Dombrowski, 1895-1912	Papadopol, 1960, 1965, 1967	Bologa, 1972	Papadopol, 1995	Hodor et al., 1998-1999	Pauca-Comănescu et al., 2000-2001	Petrescu, Chisamera, 2000-2008	Grigore Antipa Museum coll.	European Threat Status
<i>Columba oenas</i> L., 1758	Ne Sv UC		+		+			+	+	S
<i>Strix aluco</i> L., 1758	Ne Se UC		+		x				+	S
<i>Strix uralensis</i> Pall., 1771	T Wv R	+			+					(S)
<i>Asio otus</i> (L., 1758)	Ne Se C		+		+		+	+	+	S
<i>Asio flammeus</i> (Pontopp., 1763)	T R		+							(V)
<i>Otus scops</i> (L., 1758)	Ne Se C		+		+			+	+	(D)
<i>Athene noctua</i> (Scop., 1769)	Ne Se C		+		+				+	D
<i>Bubo bubo</i> (L., 1758)	Ne Se VR		+		+					V
<i>Caprimulgus europaeus</i> L., 1758	Ne Sv R, T	+			+		+	+		(D)
<i>Apus apus</i> (L., 1758)	Ne Sv UC		+		+	+		+		S
<i>Upupa epops</i> (L., 1758)	Ne Se C	+	+		+	+	+	+	+	S
<i>Coracias garrulus</i> (L., 1758)	Ne Se C		+		+	+	+	+	+	(D)
<i>Merops apiaster</i> (L., 1758)	Ne Se C		+		+			+	+	D
<i>Alcedo atthis</i> (L., 1758)	Ne Se UC		+		+	+	+	+	+	D
<i>Jynx torquilla</i> L., 1758	Ne Sv UC	+	+		+		+	+	+	D
<i>Picus viridis</i> L., 1758	Ne Se UC		+	+	+		+	+	+	D
<i>Picus canus</i> (Gmel., 1788)	Ne Se UC		+	+	+	+	+	+	+	D
<i>Dryocopus martius</i> (L., 1758)	Wv R				+			+		S
<i>Dendrocopos major</i> (L., 1758)	Ne Se C		+	+	+	+	+	+	+	S
<i>Dendrocopos syriacus</i> (Hemp. et Ehr., 1833)	Ne Se C		+	+	+		+	+		(S)
<i>Dendrocopos medius</i> (L., 1758)	Ne Se C		+	+	+		+	+	+	S
<i>Dendrocopos leucotos</i> (Shp. et Dress., 1871)	Wv T R						+			S
<i>Dendrocopos minor</i> (C. L. Brehm, 1831)	Ne Se UC R		+		+		+	+	+	S
<i>Galerida cristata</i> L., 1758	Ne Se C		+		+	+		+	+	(D)
<i>Lullula arborea arborea</i> (L., 1758)	Sv UC T				+	+	+			V

Table 1 (continued)

Species	Bird Phenology	Dombrowski, 1895-1912	Papadopol, 1960, 1965, 1967	Bologa, 1972	Papadopol, 1995	Hodor et al., 1998-1999	Pauca-Comănescu et al., 2000-2001	Petrescu, Chișamera, 2000-2008	Grigore Antipa Museum coll.	European Threat Status
<i>Alauda arvensis arvensis</i> L., 1758	Ne Se C		+		+			+	+	V
<i>Alauda arvensis cantarella</i> Bp., 1850	Ne Se C									V
<i>Eremophila alpestris flava</i> (Gmel., 1789)	Ac T R	+			+					(S)
<i>Hirundo rustica</i> (L., 1758)	Ne Sv UC		+		+			+		D
<i>Riparia riparia</i> (L., 1758)	Ne Sv UC				+	+		+		D
<i>Delichon urbica</i> (L., 1758)	Ne Sv C		+		+	+		+		S
<i>Oriolus oriolus</i> (L., 1758)	Ne Sv UC		+		+	+	+	+	+	S
<i>Pica pica</i> (L., 1758)	Ne Se VC		+	+	+	+	+	+	+	S
<i>Garrulus glandarius</i> (L., 1758)	Ne Se VC		+	+	+	+	+	+	+	(S)
<i>Corvus monedula</i> (Vieil., 1817)	Ne Se VC		+	+	+	+	+	+	+	(S)
<i>Corvus frugilegus</i> (L., 1758)	Ne Se VC		+	+	+	+	+	+	+	S
<i>Corvus corone cornix</i> L., 1758	Ne Se C	+	+	+	+	+	+	+	+	S
<i>Corvus corax</i> L., 1758	Ne Se VR Wv		+	+	+	+	+	+	+	S
<i>Troglodytes troglodytes</i> (L., 1758)	Wc C, T C		+	+	+	+	+	+	+	S
<i>Turdus merula</i> (L. 1758)	Ne Sv C	+	+	+	+	+	+	+	+	S
<i>Turdus philomelos</i> C. L. Brehm, 1831	Ne Sv C, T		+	+	+	+	+	+	+	S
<i>Turdus pilaris</i> (L., 1758)	Wc VC	+	+	+	+	+	+	+	+	S
<i>Turdus iliacus</i> L., 1776	T UC R				+	+				S
<i>Turdus torquatus alpestris</i> (C. L. Brehm, 1831)	T UC VR				+	+				S
<i>Turdus viscivorus</i> L., 1758	T UC R		+	+	+	+		+		S
<i>Erethacus rubecula</i> (L., 1758)	Ne Sv UC T		+	+	+	+		+		S
<i>Saxicola rubetra</i> (L., 1758)	Ne Sv UC	+	+	+	+	+		+	+	S
<i>Saxicola torquata rubicola</i> (L., 1766)	Ne Sv R	+	+	+	+	+		+	+	(D)
<i>Phoenicurus phoenicurus</i> (L., 1758)	Ne Sv UC		+	+	+	+		+	+	V
<i>Phoenicurus ochruros</i> (Gmel., 1789)	T UC				+	+				S

Table 1 (continued)

Species	Bird Phenology	Dombrowski, 1895-1912	Papadopol, 1960, 1965, 1967	Bologa, 1972	Papadopol, 1995	Hodor et al., 1998-1999	Pauca-Comanescu et al., 2000-2001	Petrescu, Chisamera, 2000-2008	Grigore Antipa Museum coll.	European Threat Status
<i>Luscinia megarhynchos</i> C. L. Brehm, 1831	Ne Sv C		+		+	+		+	+	S
<i>Luscinia luscinia</i> (L., 1758)	Ne Sv C		+		+	+		+		(S)
<i>Luscinia svecica cyaneola</i> (Meisn., 1804)	T VR									S
<i>Oenanthe oenanthe</i> (L., 1758)	Ne Sv, T R				+	+				S
<i>Acrocephalus arundinaceus</i> (L., 1758)	Ne Sv VC		+		+	+		+		(S)
<i>Acrocephalus palustris</i> (Bechst., 1798)	Sv R									S
<i>Acrocephalus scirpaceus</i> (Herm., 1804)	Ne Sv C, T		+		+	+		+		S
<i>Acrocephalus schoenobaenus</i> (L., 1758)	Ne Sv UC, T		+		+	+		+		(S)
<i>Locustella luscinioides</i> (Savi, 1824)	Ne Sv VR				+	+		+		(S)
<i>Locustella fluviatilis</i> (Wolf, 1810)	Ne Sv R		+		+	+				S
<i>Hippolais icterina</i> (Vieil., 1817)	Ne Sv UC		+		+	+	+	+		S
<i>Hippolais pallida elaeica</i> (Lindermayer, 1843)	Ne Sv UC R				+		+			( V )
<i>Sylvia communis</i> Lath., 1787	Ne Sv C	+	+		+	+	+	+	+	S
<i>Sylvia curruca</i> (L., 1758)	Ne Sv C, T		+		+	+	+	+		S
<i>Sylvia nisoria</i> (Bechst., 1795)	Ne Sv R				+	+	+	+		(S)
<i>Sylvia atricapilla</i> (L., 1758)	Ne Sv C		+		+	+	+	+		S
<i>Sylvia borin borin</i> (Bodd., 1783)	Ne Sv R				+	+	+	+		S
<i>Phylloscopus collybita</i> (Vieil., 1817)	Ne Sv VC T		+		+	+	+	+		(S)
<i>Phylloscopus trochilus</i> (L., 1758)	Sv T C		+		+	+	+	+		S
<i>Phylloscopus sibilatrix</i> (Bechst., 1793)	Sv T C		+		+	+	+	+		(S)
<i>Ficedula hypoleuca</i> (Pall., 1746)	T UC				+					S
<i>Ficedula albicollis</i> (Temm., 1815)	T UC				+	+				S
<i>Ficedula parva parva</i> (Bechst., 1794)	T UC	+			+					(S)
<i>Muscicapa striata</i> (Pall., 1746)	Ne Sv C		+		+	+		+		D
<i>Regulus regulus</i> (L., 1758)	T C	+	+	+	+	+		+	+	(S)

Table 1 (continued)

Species	Bird Phenology	Dombrowski, 1895-1912	Papadopol, 1960, 1965, 1967	Bologa, 1972	Papadopol, 1995	Hodor et al., 1998-1999	Pauca-Comanescu et al., 2000-2001	Petrescu, Chisamera, 2000-2008	Grigore Antipa Museum coll.	European Threat Status
<i>Regulus ignicapillus</i> (Temm., 1820)	T C				+					S
<i>Prunella modularis modularis</i> (L., 1758)	Wv UC				+	+				S
<i>Anthus trivialis</i> (L., 1758)	T Sv C				+					S
<i>Anthus campestris</i> (L., 1758)	Ne Sv UC				+			+		V
<i>Anthus cervinus</i> (Pall., 1811)	T UC				+				+	(S)
<i>Anthus pratensis</i> (L., 1758)	T UC		+		+	+				S
<i>Anthus spinoletta</i> (L., 1758)	T UC R				+	+				S
<i>Motacilla flava feldegg</i> (Mich., 1830)	Ne Sv UC	+	+		+	+		+		S
<i>Motacilla flava flava</i> L., 1758	Ne Sv UC		+		+	+				S
<i>Motacilla flava beema</i> (Sykes, 1832)	T Ac				+					S
<i>Motacilla cinerea</i> Tunst., 1771	T UC R				+					(S)
<i>Motacilla alba</i> (L., 1758)	Ne Sv C		+		+	+		+		S
<i>Bombycilla garrulus garrulus</i> (L., 1758)	T Ac	+		+	+	+				(S)
<i>Lanius collurio</i> (L., 1758)	Ne Sv C	+	+		+	+		+		(D)
<i>Lanius minor</i> (Gmel., 1788)	Ne Sv UC				+	+		+		(D)
<i>Lanius excubitor</i> L., 1758	T Wv UC R	+	+		+	+		+		D
<i>Lanius senator</i> L., 1758	Ac									V
<i>Sturnus vulgaris</i> L., 1758	Ne Se VC		+		+	+		+		S
<i>Parus major</i> (L., 1758)	Ne Se VC	+	+	+	+	+		+		S
<i>Parus caeruleus</i> (L., 1758)	Ne Se C	+	+	+	+	+		+		S
<i>Parus palustris</i> L., 1758	Ne Se UC		+	+	+	+				S
<i>Parus lugubris lugens</i> Temm., 1820	Ne Se R	+			+	+			+	(S)
<i>Parus ater</i> L., 1758	Se Wv VR				+					S
<i>Parurus biarmicus russicus</i> (C. L. Brehm, 1831)	Se Ac		+		+	+				( S )
<i>Aegithalos caudatus</i> (L., 1758)	Ne Se UC	+	+	+	+	+				S
<i>Remiz pendulinus</i> L., 1758	Ne R							+		(S)

Table 1 (continued)

Species	Bird Phenology	Dombrowski, 1895-1912	Papadopol, 1960, 1965, 1967	Bologa, 1972	Papadopol, 1995	Hodor et al., 1998-1999	Pauca-Comanescu et al., 2000-2001	Petrescu, Chisamera, 2000-2008	Grigore Antipa Museum coll.	European Threat Status
<i>Certhia familiaris</i> L., 1758	Ne Se R		+	+	+			+		S
<i>Sitta europaea</i> Wolf, 1810	Ne Se UC	+	+	+	+			+		S
<i>Passer montanus</i> (L., 1758)	Ne Se VC		+	+	+	+		+		S
<i>Passer domesticus</i> (L., 1758)	Ne Se VC		+	+	+	+		+		S
<i>Passer hispaniolensis</i> (Temm., 1820)	Ne Sv C				+	+		+		(S)
<i>Carduelis carduelis</i> (L., 1758)	Ne Se VC		+	+	+	+		+		(S)
<i>Carduelis chloris</i> (L., 1758)	Ne Se VC	+	+	+	+	+		+		S
<i>Carduelis flavirostris</i> (L., 1758)	Wv R				+	+		+		S
<i>Carduelis spinus</i> (L., 1758)	Wv T C		+	+	+	+		+		S
<i>Carduelis cannabina</i> L., 1758	Ne Sv C	+	+	+	+	+	+	+		S
<i>Pyrrhula pyrrhula</i> (L., 1758)	Wv UC	+	+	+	+	+		+		S
<i>Coccothraustes coccothraustes</i> (L., 1758)	Ne Se UC	+	+	+	+	+		+		S
<i>Loxia curvirostra</i> L., 1758	Wv R				+	+		+		S
<i>Fringilla montifringilla</i> L., 1758	Wv VC	+	+	+	+	+		+		S
<i>Fringilla coelebs</i> (L., 1758)	Ne Sv VC	+	+	+	+	+		+		S
<i>Emberiza citrinella</i> (L., 1758)	Ne Se VC	+	+	+	+	+	+	+		(S)
<i>Emberiza schoeniclus</i> (L., 1758)	Wv UC	+	+	+	+	+	+	+		S
<i>Miliaria calandra</i> (L., 1758)	Ne Sv VC	+	+	+	+	+	+	+		(S)
<i>Emberiza hortulana</i> L., 1758	Ne Sv C	+			+	+	+	+		(V)
<i>Montifringilla nivalis</i> (L., 1758)	Wv VR				+		+			(S)

• Ionescu, 1990 - 1991: *Melanitta fusca*, *Arenaria interpres*

Ne = nesting species; Wv = winter visitors (guest); Sv = summer visitors; Se = sedentary species (permanent residents); Ac = accidentally species;

T = transit species;

Ab = abundant; VC = very common; C = common; UC = uncommon; R = rare; VR = very rare.

European Threat Status: E - Endangered; V - Vulnerable; R - Rare; D - Declining; S - Secure; () - Status provisional.