

Birds in a Migrant Season in Bulgaria

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ブルガリアの渡り時期の鳥相

濱尾章二*

Introduction

The Eastern Europe is an important stopover for migrant birds that breed in Europe and winter in Africa (e.g., Nankinov, 1994, Meyburg *et al.*, 2004). However, there is little report on avifauna in the migrant season in this area. I made a field study of the bird community in a migrant season in the Eastern Europe, Bulgaria. Since the observation was restricted in some areas due to the short stay, I report the list of observed birds in this paper.

Methods

This survey was conducted during 20-25 August 2006, a migrant season in Bulgaria. The sites I made observation were as follows:

20 August: Popovitsa - Knizhovnik - Bulgas

21 August: Eastern Rhodopes Mountain (Vulture feeding station - Krumovitsa River south of Potochnitsa - Glavan - Topolovgrad)

22 August: Bourgas Lake - Mandra Lake - Atanasovsko Lake

23 August: northern Black Sea coast - Dyulinski Pass

24 August: Durankulak Lake - Shabla Lake - Shabla Tuzla Lake

25 August: Fisek Reservoir - Omurtag - Balgarski Izvor

Observation was made using binoculars ($\times 10$) and field scope ($\times 25$).

Results and Discussion

I observed 129 species that belong to 35 families in 13 orders: Podicipediformes (1 family, 3 species), Pelecaniformes (2 families, 3 species), Ciconiiformes (3 families, 7 species), Anseriformes (1 family, 10 species), Falconiformes (2 families, 14 species), Gruiformes (1 family, 2 species), Charadriiformes (3 families, 30 species), Columbiformes (1 family, 3 species), Strigiformes (1 family, 3 species), Apodiformes (1 family, 2

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species), Coraciiformes (3 families, 3species), Piciformes (1 family, 5species), and Passeriformes (15 families, 44 species; Fig. 1). Many species were recorded in Falconiformes, Charadriiformes and Passeriformes, suggesting that migrant birds used the study area as stopover sites. A lot of numbers of individuals in some species (e.g., the Great Whit Pelican *Pelecanus onocrotalus*, the White Stork *Ciconia ciconia*) also suggest that the region is under the migrant route of the birds to wintering area. See appendix for details of number of birds observed in each day.

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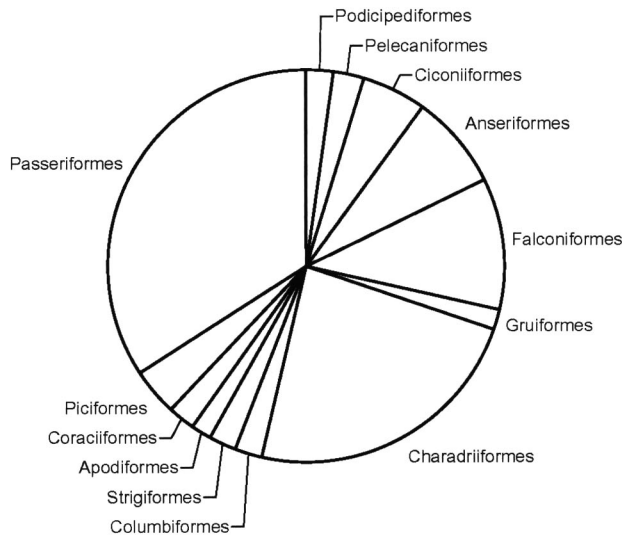


Fig.1. Birds observed in 20-25 August 2006, Bulgana.

The circle is divided proportionally to the number of species that belong to the order.

摘 要

2006年8月20～25日に東欧、ブルガリアにおいて渡り時期の鳥相を調査したところ、13目35科129種が観察された。タカ目・チドリ目・スズメ目で多くの種が記録されたこと、多数のモイロペリカン *Pelecanus onocrotalus* ・ヨーロッパコウノトリ *Ciconia ciconia* が記録されたことは、当地が秋季の渡りの重要なコース上の中継地であることを示唆する。この調査は（財）科学博物館後援会の寄付金による補助を得て行われた。

References

- Meyburg, B., M. Gallardo, C. Meyburg and E. Dimitrova. 2004. Migrations and sojourn in Africa of Egyptian vultures (*Neophron percnopterus*) tracked by satellite. J. Ornithol., 145: 273–280.
- Nankinov, D.N. 1994. Wintering of the White Storks (*Ciconia ciconia*) in Bulgaria. Ring, 16: 159–168.

Appendix 1. Bird species observed in 20-25 August 2006, Bulgaria.

Approximate numbers of observed birds are shown. +++ indicates more than 100 individuals.

	Species	20 Aug.	21 Aug.	22 Aug.	23 Aug.	24 Aug.	25 Aug.
1	Little Grebe	<i>Tachybaptus ruficollis</i>	5		20	10	
2	Great Crested Grebe	<i>Podiceps cristatus</i>		+++		2	
3	Black-necked Grebe	<i>Podiceps nigricollis</i>		60			
4	Great Cormorant	<i>Phalacrocorax carbo</i>	+++	+++	ca.100	ca.300	
5	Pygmy Cormorant	<i>Phalacrocorax pygmaeus</i>		15		6	
6	Great White Pelican	<i>Pelecanus onocrotalus</i>		600	60		
7	Squacco Heron	<i>Ardeola ralloides</i>		10			
8	Little Egret	<i>Egretta garzetta</i>		+++	15	3	3
9	Grey Heron	<i>Ardea cinerea</i>	6	20	1	4	7
10	Purple Heron	<i>Ardea purpurea</i>		1		2	
11	Black Stork	<i>Ciconia nigra</i>	2	2			3
12	White Stork	<i>Ciconia ciconia</i>	+++	2	+++	ca.30000	4
13	Glossy Ibis	<i>Plegadis falcinellus</i>		10		+++	
14	Mute Swan	<i>Cygnus olor</i>		21		10	
15	Gadwall	<i>Anas strepera</i>		1		2	
16	Eurasian Teal	<i>Anas crecca</i>		5			
17	Mallard	<i>Anas platyrhynchos</i>		+++	6	+++	30
18	Northern Pintail	<i>Anas acuta</i>		3			
19	Garganey	<i>Anas querquedula</i>		70	1	+++	
20	Northern Shoveler	<i>Anas clypeata</i>		3		20	2
21	Pochard	<i>Aythya ferina</i>		60		10	
22	Ferruginous Duck	<i>Aythya nyroca</i>		1		3	
23	Tufted Duck	<i>Aythya fuligula</i>		2			
24	Honey-buzzard	<i>Pernis apivorus</i>	1	8	3		
25	Black Kite	<i>Milvus migrans</i>	1		1		
26	Egyptian Vulture	<i>Neophron percnopterus</i>	4				
27	Griffon Vulture	<i>Gyps fulvus</i>	14				
28	Cinereous Vulture	<i>Aegypius monachus</i>	1				
29	Short-toed Eagle	<i>Circus gallicus</i>	1	1	2	1	
30	Eurasian Marsh Harrier	<i>Circus aeruginosus</i>	3		4	3	6
31	Montagu's Harrier	<i>Circus pygargus</i>		2	1	1	
32	Eurasian Sparrowhawk	<i>Accipiter nisus</i>		1	1	1	1
33	Levant Sparrowhawk	<i>Accipiter brevipes</i>		1			
34	Common Buzzard	<i>Buteo buteo</i>	+++	5	1	3	2
35	Lesser Spotted Eagle	<i>Aquila pomarina</i>		2	2		+++
36	Osprey	<i>Pandion haliaetus</i>					1
37	Kestrel	<i>Falco tinnunculus</i>	+++	5	1		6
38	Moorhen	<i>Gallinula chloropus</i>			3		6
39	Coot	<i>Fulica atra</i>		+++		+++	
40	Black-winged Stilt	<i>Himantopus himantopus</i>			6		ca.40
41	Pied Avocet	<i>Recurvirostra avosetta</i>		+++	10		
42	Stone-curlew	<i>Burhinus oedicnemus</i>			2		
43	Collared Pratincole	<i>Glareola pratincola</i>		6			
44	Little Plover	<i>Charadrius dubius</i>		1	2	6	
45	Ringed Plover	<i>Charadrius hiaticula</i>		1			
46	Kentish Plover	<i>Charadrius alexandrinus</i>		1			
47	Northern Lapwing	<i>Vanellus vanellus</i>		3		10	
48	Little Stint	<i>Calidris minuta</i>		4	15		
49	Curlew Sandpiper	<i>Calidris ferruginea</i>			4	3	
50	Ruff	<i>Philomachus pugnax</i>		10	1	13	

	Species	20 Aug.	21 Aug.	22 Aug.	23 Aug.	24 Aug.	25 Aug.
51	Black-tailed Godwit	<i>Limosa limosa</i>		30	5		
52	Redshank	<i>Tringa totanus</i>		10			
53	Marsh Sandpiper	<i>Tringa stagnatilis</i>			2	25	
54	Greenshank	<i>Tringa nebularia</i>		2		3	
55	Green Sandpiper	<i>Tringa ochropus</i>		2		1	
56	Wood Sandpiper	<i>Tringa glareola</i>		+++		10	
57	Common Sandpiper	<i>Actitis hypoleucos</i>		15	1	1	
58	Mediterranean Gull	<i>Larus melanocephalus</i>	3	+++	3	+++	
59	Little Gull	<i>Larus minutus</i>			5		
60	Black-headed Gull	<i>Larus ridibundus</i>	1	+++	+++	+++	
61	Slender-billed Gull	<i>Larus genei</i>		2		1	
62	Yellow-legged Gull	<i>Larus michahellis</i>	+++	+++	+++	+++	+++
63	Gull-billed Tern	<i>Sterna nilotica</i>		5			
64	Caspian Tern	<i>Sterna caspia</i>		5			
65	Sandwich Tern	<i>Sterna sandvicensis</i>			1		
66	Common Tern	<i>Sterna hirundo</i>	1	30	10	15	
67	Little Tern	<i>Sterna albifrons</i>		5			
68	Whiskered Tern	<i>Chlidonias hybrida</i>		5			
69	Black Tern	<i>Chlidonias niger</i>		10		1	
70	Wood Pigeon	<i>Columba palumbus</i>	2	1	1		9
71	Collared Dove	<i>Streptopelia decaocto</i>	+++	5	4	10	40
72	Turtle Dove	<i>Streptopelia turtur</i>	+++	+++	15	2	20
73	Scops Owl	<i>Otus scops</i>		1	1		
74	Little Owl	<i>Athene noctua</i>	1	4			
75	Long-eared Owl	<i>Asio otus</i>			3		
76	Common Swift	<i>Apus apus</i>	+++	10	+++	10	10
77	Alpine Swift	<i>Apus melba</i>			30	30	3
78	Bee-eater	<i>Merops apiaster</i>		50	6	3	50
79	Roller	<i>Coracias garrulus</i>	3	8	3	2	2
80	Hoopoe	<i>Upupa epops</i>			1		5
81	Eurasian Wryneck	<i>Jynx torquilla</i>			1		
82	Green Woodpecker	<i>Picus viridis</i>		1		1	
83	Great Spotted Woodpecker	<i>Dendrocopos major</i>			1	2	1
84	Syrian Woodpecker	<i>Dendrocopos syriacus</i>				1	2
85	Middle Spotted Woodpecker	<i>Dendrocopos medius</i>				3	
86	Sky Lark	<i>Alauda arvensis</i>			3	3	1
87	Sand Martin	<i>Riparia riparia</i>	2	+++	+++	30	+++
88	Crag Martin	<i>Pyonoprogne rupestris</i>		10			2
89	Barn Swallow	<i>Hirundo rustica</i>	+++	+++	+++	+++	+++
90	Red-rumped Swallow	<i>Hirundo daurica</i>	1	6	2	10	30
91	House Martin	<i>Delichon urbicum</i>	+++	+++	+++	+++	+++
92	Yellow Wagtail	<i>Motacilla flava</i>	+++	5	25	3	20
93	White Wagtail	<i>Motacilla alba</i>		6	1	1	4
94	Nightingale	<i>Luscinia megarhynchos</i>				4	
95	Black Redstart	<i>Phoenicurus ochruros</i>		1		1	3
96	Northern Wheatear	<i>Oenanthe oenanthe</i>		2		2	1
97	Pied Wheatear	<i>Oenanthe pleschanka</i>				10	3
98	Black-eared Wheatear	<i>Oenanthe hispanica</i>					6
99	Blackbird	<i>Turdus merula</i>	1	5		1	2
100	Song Thrush	<i>Turdus philomelos</i>		1		1	

	Species	20 Aug.	21 Aug.	22 Aug.	23 Aug.	24 Aug.	25 Aug.
101	Reed Warbler	<i>Acrocephalus scirpaceus</i>				1	
102	Great Reed Warbler	<i>Acrocephalus arundinaceus</i>				5	
103	Lesser Whitethroat	<i>Sylvia curruca</i>		1	1		
104	Whitethroat	<i>Sylvia communis</i>			4	1	
105	Blackcap	<i>Sylvia atricapilla</i>		3	7	1	
106	Wood Warbler	<i>Phylloscopus sibilatrix</i>		2	3		
107	Common Chiffchaff	<i>Phylloscopus collybita</i>		1	3	1	
108	Willow Warbler	<i>Phylloscopus trochilus</i>			2		
109	Spotted Flycatcher	<i>Muscicapa striata</i>	3	1	3	4	3
110	Pied Flycatcher	<i>Ficedula hypoleuca</i>		1	2		1
111	Blue Tit	<i>Parus caeruleus</i>		2	10		
112	Great Tit	<i>Parus major</i>		1	1	2	1
113	Wood Nuthatch	<i>Sitta europaea</i>		1	6		
114	Golden Oriole	<i>Oriolus oriolus</i>				10	3
115	Red-backed Shrike	<i>Lanius collurio</i>	+++	15	+++	10	+++
116	Lesser Grey Shrike	<i>Lanius minor</i>		1	3	2	2
117	Woodchat Shrike	<i>Lanius senator</i>	1	4			
118	Jay	<i>Garrulus glandarius</i>		3	4	3	2
119	Black-billed Magpie	<i>Pica pica</i>	+++	1	10	10	+++
120	Jackdaw	<i>Corvus monedula</i>		+++			
121	Carrion Crow*	<i>Corvus corone</i>	2	3	5	17	10
122	Raven	<i>Corvus corax</i>	2	4	1		
123	Starling	<i>Sturnus vulgaris</i>	+++	+++	+++	+++	+++
124	House Sparrow	<i>Passer domesticus</i>	+++	+++	+++	20	+++
125	Tree Sparrow	<i>Passer montanus</i>		2	25	4	1
126	Chaffinch	<i>Fringilla coelebs</i>		10	5		1
127	Greenfinch	<i>Carduelis chloris</i>			2		1
128	Goldfinch	<i>Carduelis carduelis</i>		4	2	2	2
129	Corn Bunting	<i>Emberiza calandra</i>	+++	10	15	5	15

* Hooded Crow, *C. c. cornix*.