

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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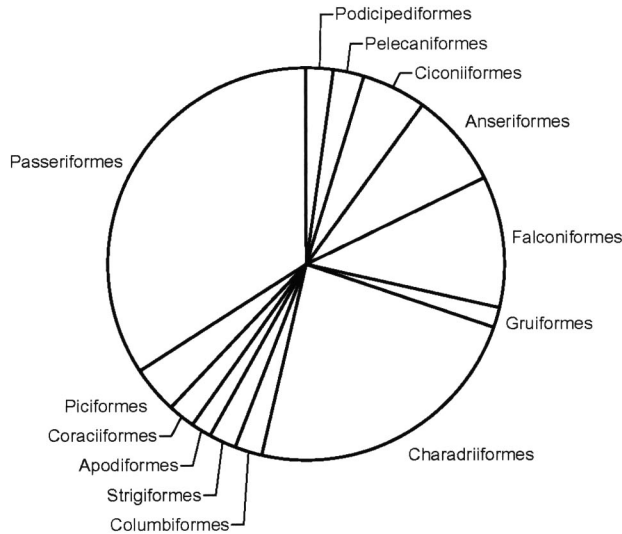


Fig. 1. Birds observed in 20-25 August 2006, Bulgana.

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
9	Grey Heron	<i>Ardea cinerea</i>		6	20	1	4
10	Purple Heron	<i>Ardea purpurea</i>			1		2
11	Black Stork	<i>Ciconia nigra</i>	2	2			
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	+++
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
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>Circaetus gallicus</i>	1	1	2	1	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	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>					
37	Kestrel	<i>Falco tinnunculus</i>	+++	5	1		4
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			30	5		
52	Redshank			10			
53	Marsh Sandpiper				2	25	
54	Greenshank			2		3	
55	Green Sandpiper			2		1	
56	Wood Sandpiper			+++		10	
57	Common Sandpiper			15	1	1	
58	Mediterranean Gull		3	+++	3	+++	
59	Little Gull				5		
60	Black-headed Gull	1	+++	+++	+++	+++	
61	Slender-billed Gull			2		1	
62	Yellow-legged Gull	+++	+++	+++	+++	+++	+++
63	Gull-billed Tern			5			
64	Caspian Tern			5			
65	Sandwich Tern				1		
66	Common Tern		1	30	10	15	
67	Little Tern			5			
68	Whiskered Tern			5			
69	Black Tern			10		1	
70	Wood Pigeon	2	1		1		9
71	Collared Dove	+++	5	4	10	40	10
72	Turtle Dove	+++	+++	15	2	20	10
73	Scops Owl		1		1		
74	Little Owl	1	4				
75	Long-eared Owl				3		
76	Common Swift	+++	10	+++	10	10	3
77	Alpine Swift				30	30	
78	Bee-eater		50	6	3	50	10
79	Roller	3	8	3	2	2	5
80	Hoopoe			1			
81	Eurasian Wryneck			1			
82	Green Woodpecker		1		1	1	
83	Great Spotted Woodpecker			1	2	1	
84	Syrian Woodpecker				1	2	
85	Middle Spotted Woodpecker				3		
86	Sky Lark			3	3	1	
87	Sand Martin	2	+++	+++	30	+++	2
88	Crag Martin		10				
89	Barn Swallow	+++	+++	+++	+++	+++	+++
90	Red-rumped Swallow	1	6	2	10	30	15
91	House Martin	+++	+++	+++	+++	+++	+++
92	Yellow Wagtail	+++	5	25	3	20	3
93	White Wagtail		6	1	1	4	1
94	Nightingale				4		
95	Black Redstart		1		1	3	1
96	Northern Wheatear		2		2	1	
97	Pied Wheatear				10	3	
98	Black-eared Wheatear					6	
99	Blackbird	1	5		1	2	2
100	Song Thrush		1		1		

	Species	20 Aug.	21 Aug.	22 Aug.	23 Aug.	24 Aug.	25 Aug.
101	Reed Warbler					1	
102	Great Reed Warbler					5	
103	Lesser Whitethroat			1	1		
104	Whitethroat				4	1	
105	Blackcap			3	7	1	
106	Wood Warbler			2	3		
107	Common Chiffchaff			1	3	1	
108	Willow Warbler				2		
109	Spotted Flycatcher	3	1	3	4	3	1
110	Pied Flycatcher		1	2			
111	Blue Tit			2	10		
112	Great Tit		1	1	2	1	1
113	Wood Nuthatch		1		6		
114	Golden Oriole					10	3
115	Red-backed Shrike	+++	15	+++	10	+++	+++
116	Lesser Grey Shrike		1	3	2	2	2
117	Woodchat Shrike	1	4				
118	Jay		3	4		3	2
119	Black-billed Magpie	+++	1	10	10	10	+++
120	Jackdaw		+++				
121	Carrion Crow*	2	3	5	17	1	10
122	Raven	2	4		1		
123	Starling	+++	+++	+++	+++	+++	+++
124	House Sparrow	+++	+++	+++	+++	20	+++
125	Tree Sparrow		2		25	4	1
126	Chaffinch		10		5		1
127	Greenfinch			2	2		1
128	Goldfinch		4		2	2	2
129	Corn Bunting	+++	10	15	5	1	15

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