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Preliminary observations on avifauna of the Jai Prakash Narayan Bird Sanctuary (Suraha Tal Lake), Ballia, Uttar Pradesh, India

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Suraha Tal Lake is the largest floodplain lake in Ballia District of eastern Uttar Pradesh. It is an open type oval 'U' shaped ox-bow lake in the floodplain of river Ganga, located 8km north of the district headquarters of Ballia. It is a perennial meander of the river Ganga with an area of 26km². During the monsoon season, it covers about 33.4km². It extends between 25°48'-25°52'N and 84°8'–84°13'E at an altitude of 166m. The lake circumference is about 33.4km (Image 1). The Government of Uttar Pradesh has notified an area of 34.4km² including the lake as a bird sanctuary by Gazette notification No. 1088(1)/14-3-19/89 Lucknow dated 24.03.1991. The sanctuary has been named "Jai

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Prakash Narayan Bird Sanctuary" and it comprises both private and Gram Samaj lands in a number of small pokets where paddy is



cultivated throughout the year. The lake is connected with the river Ganga through 32.6km long Katehar nullah. The lake is drained and filled through Katehar nullah according to the water level of the river Ganga, resulting in complete inundation during the monsoon months. It offers good habitat for a variety of flora and fauna. Birds are known to arrive frequently this lake due to the availability of nesting and feeding habitats. The lake has great recreational value and supports local agriculture and tourism and also other activities common in low lying areas such as irrigation and fisheries. Human interference and alteration in water levels of the wetlands are significantly responsible to recent decline in bird population. So far there is no detail infomation on the population status of water birds and the possible impact of human activities on wild birds population of this region.

Materials and methods: The checklist of the avifauna of Suraha Tal Lake was prepared by extensive field surveys between August 2002 and July 2004. Surveys were conducted by fishing boat inside the entire lake and in paddy fields, trees and villages situated around the lake. Surveys were conducted monthly in the mornings from 0800-1100 hr and in the evenings from 1500-1800 hr with the help of 8×40 Bushnell binoculars. Identification and records were maintained according to their status (resident, migrant and local migrant), season (summer, winter and throughout the year) and habitat (aquatic, trees and human habitation). Birds were identified with the help of books by King et al. (1975), Hancock (1984), Woodcock (1984), Ali & Ripley (1987), Manakadan & Pittie (2001), and Ali (2002).

Results and Discussion: A total of 91 species of birds representing 33 families and 13 orders were recorded. Of these, 62 species are resident, 24 migrant and 20 are local migrant (Table 1). Availability of food and suitable habitat facilitated resident and local migrant bird species to visit the lake throughout the year (Fig. 1). In the winter season maximum birds species were recorded while in summer season the record was minimum. Common Teal, Temminck's Stint, Pallas's Fishing Eagle, and Great Crested Grebe

Birds of Suraha Tal Lake P.K. Srivastava & S.J. Srivastava

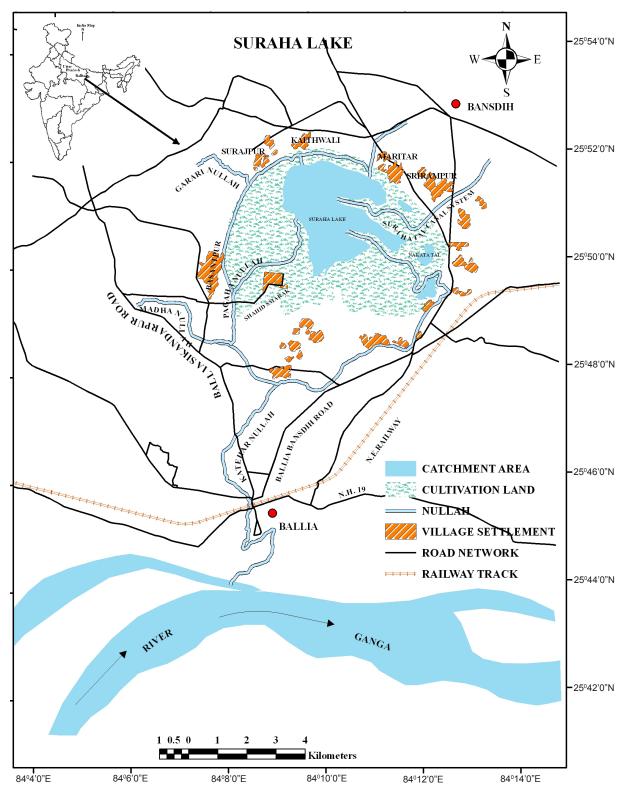


Image 1. Schematic map of Jai Prakash Narayan Bird Sanctuary (Suraha Tal Lake)

were recorded occasionally during the study.

The common resident birds were Grey Heron, Indian Pond Heron, Cattle Egret, Little Egret, Median Egret,

Great Cormorant, Indian Shag, Little Cormorant, Roseringed Parakeet, Greater Coucal, Indian Cuckoo, Indian Roller, Coppersmith Barbet, Brown-capped Pygmy

Birds of Suraha Tal Lake P.K. Srivastava & S.J. Srivastava

Table 1. Checklist of birds recorded from Suraha Tal Lake area

	Scientific name	Common name	Vernacular name	Status	Season	Habitation
	Ciconiformes Ardeidae					
1	Ardea alba	Large Egret	Bagula	R, LM	W	А
2	Ardea cinerea	Grey Heron	Khanjan	R	W	А
3	Ardea purpurea	Purple Heron	Khyra	R, LM	Т	А
4	Ardeola grayii	Indian Pond Heron	Andha Bagula	R	Т	А
5	Bubulcus ibis	Cattle Egret	Bagula	R	W	А
6	Egretta garzetta	Little Egret	Bagula	R	W	А
7	Mesophoyx intermedia	Median Egret	Bagula	R	W	А
	Threskiorhnithidae					
8	Nycticorax nycticorax	Night Heron	Manduk	R, LM	W	А
9	Pseudibis papillosa	Black Ibis	Kala Baz	LM	W	А
10	Threskiornis melanocephalus	White Ibis	Baz	R, LM	W	А
	Ciconiidae					
11	Anastomus oscitans	Open billed Stork	Ghonghil	R, LM	W	А
12	Ciconia episcopus	White-necked Stork	Lag Lag	R, LM	S	А
	Anseriformes Anatidae					
13	Anas crecca (Linne)	Common Teal	Jal Murgi	М	W	А
14	Nettapus coromandelianus	Cotton Teal	Girria	R, LM	WS	А
15	Sarkidiornis melanotos	Comb Duck	Nakta	R	W	А
	Falconiformes Accipitridae					
16	Accipiter badius	Indian Shikra	Shikra	R	Т	Т
17	Calidris temminckii	Temminck's Stint	Chhota Panlawa	М	W	А
18	Charadrius dubius	Little ringed Plover	Titir	М	Т	А
19	Elanus caeruleus	Black winged Kite	Kapassi	R	W	А
20	Haliaeetus leucoryphus	Pallas's Fishing Eagle	Machhmmanga	M	W	А
21	Pluvialis apricaria	Golden plover	Batan	M	W	А
22	Vanellus cinereus	Grey headed Lapwig	Vuer chirae	М	W	А
	Charadriformes Charadriidae					
23	Tringa glareola	Spotted Sandpiper	Chupka	М	W	А
24	Tringa hypoleucos	Common Sandpiper	Merwa	М	W	А
25	Tringa nebularia	Common Greenshank	Timtima	М	W	А
26	Tringa totanus	Common Redshank	Chhota Batan	М	W	А
	Recurvirostridae					
27	Glareola lactea	Pratincole or Swallow Plover	Babuibattan	М	WS	Т
28	Himantopus himantopus	Black winged Stilt	Gozpaun	М	Т	А
	Laridae					
29	Larus ridibundus	Black headed gull	Dhomra	М	W	А
30	Larus brunnicephalus	Brown headed gull	Dhomra	М	W	А
31	Sterna aurantia	River tern	Tehri	R	Т	А
	Jacanidae					
32	Hydrophasianus chirurgus	Pheasant-tailed Jacana	Piho	R, LM	Т	А
33	Metopidius indicus	Bronze-winged Jacana	Kattoi	R	Т	А

	Scientific name	Common name	Vernacular name	Status	Season	Habitation
	Columbiformes Columbidae					
34	Columba livia	Blue Rock Pigeon	Kabutar	R	Т	Т
35	Streptopelia decaocto	Eurasian Collared-dove	Panduk	R, LM	Т	Т
36	Streptopelia chinensis	Spotted Dove	Panduk	R, LM	Т	Т
37	Treron phoenicoptera	Yellow-legged Green Pigeon	Harial	LM	W	Т
	Pelecaniformes Phalacrocoracidae					
38	Anhinga melanogaster	Darter or Snake Bird	Pandubbi	M	W	Т
39	Phalacrocorax carbo	Great Cormorant	Pankawwa	R	W	Т
40	Phalacrocorax fuscicollis	Indian Shag	Kaul	R	W	Т
41	Phalacrocorax niger	Little Cormorant	Pankawwa	R	W	Т
	Psittaciformes Psittacidae					
42	Psittacula krameri	Rose-ringed Parakeet	Tota	R	Т	Т
	Cuculiformes Cuculidae					
43	Centropus sinensis	Greater Coucal	Mohoka	R	W	Т
44	Cuculus micropterus	Indian Cuckoo	Papiha	R	W	Т
45	Eudynamys scolopacea	Asian Koel	Koel	R, LM	W	Т
	Apodiformes Apodidae					
46	Apus affinis (Gray)	House Swift	Babila	R	W	А
47	Cypsiurus balasiensis	Asian Palm Swift	Telchatta	R	Т	А
	Coraciiformes Alcedinidae					
48	Alcedo atthis	Small Blue Kingfisher	Chhota Kilkila	R	Т	А
49	Ceryle rudis	Lesser Pied Kingfisher	Kilkila	R	Т	А
50	Halcyon smyrnensis	White-breasted Kingfisher	Kourilla	R	Т	Т
51	Pelargopsis capensis	Stork-billed Kingfisher	Badami Kourilla	R	Т	Т
	Meropidae					
52	Merops orientalis	Small Bee-eater	Patringia	R	Т	Т
53	Merops phillipinus	Blue-tailed Bee-eater	Bada Patringia	R, LM	Т	Т
	Coraciidae					
54	Coracias benghalensis	Indian Roller	Nilkanth	R	Т	Т
	Pioformes Capitonidae					
55	Megalaima haemacephala	Coppersmith Barbet	Chotta Basanth	R	S	Т
	Picidae				Т	
56	Dendrocopos nanus	Brown-capped Pygmy Woodpecker	Kathphorwa	R	W	Т
	Podicipediformes Podicipedidae					
57	Podiceps cristatus	Great Crested Grebe	Pandubbi	М	W	А
58	Tachybaptus ruficollis	Little Grebe	Pandubbi	М	W	А
	Passeriformes Alaudidae					
59	Alauda gulgula	Eastern Skylark	Bharat	R	W	А
	Hirundinidae					
60	Hirundo smithii	Wire-tailed Swallow	Leishra	R, LM	W	Т
61	Hirundo rustica	Common Swallow	Ababeel	М	W	Т

	Scientific name	Common name	Vernacular name	Status	Season	Habitation
	Laniidae					
62	Lanius schach	Rufous backed Shrike	Kajala	M, LM	W	Т
	Campephagidae					Т
63	Tephrodornis pondicerianus	Common Woodshrike	Tartituiya	R	Т	Т
	Artamidae					
64	Artamus fuscus	Ashy Woodswallow	Ababeel	LM	Т	Т
	Stumidae					
65	Acridotheres fuscus	Jungle Myna	Junglee Myna	R, LM	Т	Т
66	Acridotheres ginginianus	Bank Myna	Myna	LM	Т	Т
67	Acridotheres tristis	Common Myna	Myna	R	Т	Т
	Corvidae					
68	Corvus splendens	House Crow	Deshi Kawwa	R	Т	Т
69	Corvus macrorhynchos	Jungle Crow	Dom Kawwa	R	Т	Т
	Pycnonotidae					
70	Pycnonotus cafer	Red-vented Bulbul	Bulbul	R	Т	Т
	Muscicapidae					
71	Cisticola juncidis	Zitting Cisticola	Ghas Ki Phutki	R	Т	А
72	Copsychus saularis	Oriental Magpie Robin	Daiyar	R	Т	Т
73	Erithacus svecicus	Bluethroat	Nilkanth	М	W	А
74	Orthotomus sutorius	Common Tailorbird	Phutki	R	Т	Т
75	Rhipidura albicollis	White-throated Fantail	Chakdil	R	Т	Т
76	Saxicoloides fulicata	Indian Robin	Kalchhum	R	Т	Н
77	Turdoides caudatus	Common Babbler	Satbhai	R	Т	Т
78	Turdoides striatus	Jungle Babbler	Satbhai	R	Т	Т
	Sittidae					
79	Sitta castanea	Chestnut-bellied Nuthatch	Kath phorwa	R	Т	Т
	Motacillidae					
80	Anthus rufulus	Paddyfield Pipit	Charchari	R	Т	А
81	Motacilla alba	White Wagtail	Dhoban	М	W	А
82	Motacilla flava	Yellow Wagtail	Pan Pilakh	M	W	А
83	Motacilla maderaspatenis	Large Pied Wagtail	Khanjan	R	W	А
84	Motacilla citreola	Yellow-headed Wagtail	Pani Ka Pilkya	M	W	А
85	Motacilla cinerea	Grey Wagtail	Pani Ka Pilkya	M	W	A
	Nectannidae					
86	Nectarinia asiatica	Purple Sunbird	Shakar khora	R	Т	Т
	Ploceidae					
87	Eremopterix grisea	Ashy-crowned Finch-Lark	Diyora	R, LM	Т	A
88	Ploceus phillippinus	Baya Weaver	Baya	R, LM	Т	Т
89	Passer domesticus	House Sparrow	Goraiya	R	Т	Н
90	Petronia xanthocollis	Yellow-throated Sparrow	Jangalee Goraiya	R	Т	A
91	Ploceus manyar	Streaked Weaver	Bamani Baya	R	Т	A

Status: R - Resident; M - Migrant; LM - Local Migrant Season: S - Summer; W - Winter; T - Throughout the year Habitat: A - Aquatic (swampy, grass, and paddy fields); T - Trees (small and large); H - Human habitations

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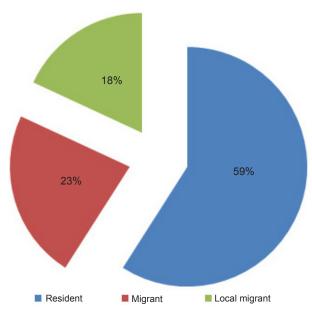


Figure 1. Percentage composition of avifauna of Suraha Tal Lake

Woodpecker, Common Myna, House Crow, Jungle Crow, Red-vented Bulbul, Jungle Babbler, Chestnutbellied Nuthatch and House Sparrow (Table 1).

The local migrant birds encountered were Large Egret, Purple Heron, Night Heron, Black Ibis, White Ibis, Baya Weaver, White-necked Stork, Cotton Teal, Pheasant-tailed Jacana, Eurasian Collared-dove, Spotted Dove, Yellow-legged Green Pigeon, Asian Koel, Blue-tailed Bee-eater, Wire-tailed Swallow, Rufous backed Shrike, Jungle Myna, Bank Myna, Ashy-crowned Finch-Lark and Open billed Stork (Table 1). The migratory birds mostly visited the area during winter season, were Common Teal, Little Ringed Plover, Golden Plover, Spotted Sandpiper and Darter are very common in appearance and also high in density.

The number of migratory birds has decreased over the years with increase in indiscriminate poaching. Another serious problem is the use of pesticides in paddy fields around the lake. A number of bird hunters kill the birds illegally either by trapping or poisoning. Poachers are adopting very special methods for birds hunting. They insert insecticides (Furadan) in the abdominal cavity of insects viz. (Forficula auricularia) and spread them near the vicinity of the lake and on the floating leaves of aquatic plants. Birds consume these poisoned insects, become lethargic and ultimately unconscious, and becoming easy prey to the poachers. The poachers revive them putting water drops in the bird's mouth. Then the live birds are furtively sold by them. Although the Forest Department has put up a signboard against the hunting of birds in these areas, they are still being hunted with the connivance of some local residents. Awareness programmes should be organized by local people, Government organizations and NGOs against the birds hunting and use of harmful pesticides in the agricultural fields. Human interference, eco-tourism and encroachment of wetlands are the main reasons for the decline in avifauna in terms of density as well as diversity.

REFERENCES

Ali, S. (2002). *The Book of Indian Birds (13th Edition).* Oxford University Press, New Delhi, 326pp.

Ali, S. & S.D. Ripley (1987). Compact Handbook of Birds of India and Pakistan. Oxford University Press, New Delhi, 820pp.

Hancock, J. (1984). *The Birds of The Wetlands*. Oxford University Press, New Delhi, 176pp.

King, B., E.C. Dickinson & M.W. Woodcock (1975). A Field Guide to The Birds of South-East Asia. Collins, London, 480pp.

Manakadan, R. & A. Pittie (2001). Standardized common and scientific names of the Birds of the Indian Subcontinent BUCEROS. Envis news letter: Avian Ecology & Inland Wetlands 6(1): 33pp.

Woodcock, M. (1984). Collins Hand Guide to The Birds of The Indian Sub-continent. Printed and bound by South China Printing Co. Hong Kong, 176pp.