BIRDS OF SINGANALLUR LAKE, COIMBATORE, TAMIL NADU

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The Ramsar Convention (Anon, 1971) has defined wetlands as "areas of marsh, fen, peatland or water, whether natural or artificial, permanent or temporary with water that is static or flowing, fresh, brackish or salt, including areas of marine water the depth of which at low tide does not exceed six meters". In an urban biodiversity, wetlands form an important area in supporting species diversity and to regulate the ecological web. Survey of waterbirds on urban wetlands received very little attention. Although most urban wetlands are considered to be extremely polluted areas, they still attract a large number of winged visitors.

Study Area: Singanallur lake (10°59'46"N & 77°01'11"E) is one of the biggest lakes in Coimbatore city. Coimbatore is situated on the banks of river Noyyal and the foothills of the Western Ghats of Nilgiri Biosphere Reserve at an altitude of 411m and an area of 254km². Climate is of mild winter and moderate summer and a rainfall of 61.22cm annually with a peak during September-November. The length of the bund of Singanallur lake extends to 3102m and water spread area of 1.153km². A railway line passes across the lake, which has three sluices. It is surrounded by agricultural and residential areas on eastern, southern and western sides and by a national highway and residential area on the northern side. This lake is developed and maintained by the Coimbatore city corporation for boating to provide entertainment to people.

Methodology: This report is based on the field observation carried out during June 2004 to September 2006. A weekly survey was done by systematically walking on fixed routes through the study area. The birds were mostly observed during the most active period of the day, i.e., from 0600 to 1000hr and from 1600 to 1800hr. However, observations were also made during other timings according to convenience. Observations were carried with the aid of 8x40 and 10x50 binoculars. Field characteristics and the number of birds were counted and noted on data sheets. The identification of birds was done using field guides (Ali, 2002; Ratnam, 2002; Ali & Ripley, 1996). The checklist was prepared using standardized common and scientific names of The Birds of The Indian Subcontinent by Manakadan & Pittie (2001) and vernacular name by Ratnam (1998). The status of birds are categorized as resident (R),

migratory (M) and as resident migrant (RM) after Ali (2002).

Results and Discussion: A list of birds recorded from Singanallur Lake and their common, scientific and vernacular names (Tamil), status, feeding habit and the occurrence is reported in Table 1. The study reveals the occurrence of 116 species of birds belonging to 44 families and 17 orders. Among the 17 orders, Passeriformes dominated the list with 43 species followed by Ciconiiformes with 13 species, Charadriiformes with 11 species, Coraciiformes with nine species, Gruiformes with seven species, Falconiformes with six species, Pelecaniformes and Anseriformes with five species each, Galliformes, Columbiformes and Cuculiformes with three species each, Strigiformes and Apodiformes with two species each, Turniciformes, Podicipediformes and Psittaciformes with one species each. Out of 116 species, 66 were resident, 17 were migratory and 33 were resident migrant. Species diversity and abundance of birds were observed to be more during June to

Spot-billed Pelican, a globally Near Threatened species (IUCN, 2007) is a resident with local movements. Presence of 330 Spot-billed Pelicans in one day (2.ix.2006) in this lake highlights the importance of this area. Similarly, 175 Painted Storks, a Near Threatened (IUCN, 2007), resident bird with local movements were observed on the same day. These two bird species were observed to be regular visitors to Coimbatore wetlands during July to January. Data on the regular presence of these birds in the study area during the season explains this area is the preferred foraging site for these birds in Coimbatore city. A total of 5777 Spot-billed Pelicans and 3146 Painted Storks were encountered during the study period.

Oriental White Ibis (*Threskiornis melanocephalus*) is another Near Threatened bird (IUCN, 2007) that was frequently recorded from this wetland. Population of White Ibis was recorded scattered in Coimbatore lakes between June and October. In Singanallur, 43 birds were encountered with a minimum of one and a maximum of four individuals. Western Marsh Harrier (*Circus aeruginosus*), which was considered a migratory winter visitor (Ali, 2002) was observed throughout the year in this lake. This over-wintering habit of the wetland predator needs serious further study.

Little Crake (Porzana parva), a rare, migratory bird was not observed from this region earlier. Here, the record of this species is not based on a direct sighting during their activities, instead a dead bird (relatively unputrefied condition) was sighted on the bank of the lake near the railway track. The body was identified at the Salim Ali Centre for Ornithology & Natural History, Coimbatore. However, since that incident this bird was not observed around the lake. This may be an extra-limital occurrence. Another interesting rare bird sighting was of a male Pallied Harrier (Circus macrourus) on 2.ii.2006 by a group of birdwatchers on the occasion of World Wetland Day.

Another rare bird observed was Gadwall (Anas strepera). Populations of this bird were observed scattered in different lakes in Coimbatore with only a few individuals during winter. Though this bird was sighted in very few numbers (2-3 individuals) in Singanallur lake, 12 individuals were observed in the Vedapatti lake, a relatively unpolluted lake in the outskirts of the city.

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Table 1. Birds of Singanallur lake, Coimbatore, Tamil Nadu

	Common Name	Scientific Name	Vernacular Name (Tamil)	Status	Feeding Habit	Observe Months
	Order: Podicipediformes					
	Family: Podicipedidae Little Grebe	Tachybaptus ruficollis	Mukkulippan	R	Р	Mar- Oct
	Order: Pelecaniformes	raen, suprae ranceme	···aiiiiaiippaii			
	Family: Pelecanidae					
	Spot-billed Pelican	Pelecanus philippensis	Kuzhai Kada	RM	Р	Jun-Jan
	Family: Phalacrocoracidae					
	Little Cormorant	Phalacrocorax niger	Chinna Neerkagam	RM	P	+
	Indian Shag	Phalacrocorax fuscicollis	Kondai Neerkagam	RM	P	Jun
	Great Cormorant	Phalacrocorax carbo	Peria Neerkagam	RM	Р	Jul-Aug
	Family: Anhingidae	Anhinga malanagastar	Pambu Thara	RM	Р	Mar Iul
	Darter	Anhinga melanogaster	Pambu mara	HIVI	Р	Mar-Jul
	Order: Ciconiiformes Family: Ardeidae					
	Little Egret	Egretta garzetta	Chinna Kokku	R	P, I	+
	Grey Heron	Ardea cinerea	Sambal Narai	RM	P	+
	Purple Heron	Ardea purpurea	Sen Narai	RM	Р	+
	Large Egret	Casmerodius albus	Peria Kokku	RM	Р	+
	Median Egret	Mesophoyx intermedia	Naduthara kokku	RM	P	+
	Cattle Egret	Bubulcus ibis	Unni Kokku	RM	I .	+
	Indian Pond Heron Black-crowned Night Heron	Ardeola grayii Nycticorax nycticorax	Kuruttu Kokku Erakkokku	R R	P, I P	+
	•	rvycholiax nycholiax	LIANNUNNU	П	Г	т
	Family: Ciconiidae Painted Stork	Mycteria leucocephala	Manjal Mookku Narai	RM	Р	Jun-Oct
	White-necked Stork	Ciconia episcopus	Venkaluthu Narai	R	P	# Jul
	Family: Threskiornithidae					
	Glossy Ibis	Plegadis falcinellus	Arival Mookkan	RM	Р	Jun-Oct
	Oriental White Ibis	Threskiornis melanocephalus	Vellai Arival Mookkan	R	Р	Jun-Oct
	Eurasian Spoon Bill	Platalea leucorodia	Karandivayan	RM	Р	# Aug
	Order: Anseriformes					
	Family: Anatidae Gadwall	Anas strepera	Karuval Vathu	М	Р	Nov
	Spot-billed Duck	Anas strepera Anas poecilorhyncha	Pulli Mookku Vathu	RM	P P	Apr- Dec
	Northern Shoveller	Anas clypeata	Andi Vathu	M	P	Dec
	Garganey	Anas querquedula	Neela Chiragu Vathu	M	P	Jul-Aug
	Common Teal	Anas crecca	Kiluvai vathu	M	Р	Nov-Dec
	Order: Falconiformes					
	Family: Accipitridae	A dili una mai muana	Kalla Damus dan	Б	0	
	Black Kite	Milvus migrans	Kalla Parundhu	R R	C C	+
	Brahminy Kite Western Marsh Harrier	Haliastur Indus Circus aeruginosus	Semparundhu Setru Poonai Parundhu	M	C	+
	Pallid Harrier	Circus macrourus	Poonai Parundhu	M	Č	# Feb
	Shikra	Accipiter badius	Valluru	R	Ċ	+
	Pied Harrier	Circus melanoleucos	Vellai Poonai Parundhu	M	Ċ	Sep
	Order: Galliformes					
	Family: Phasianidae	Francisco de la constitución de	IZllai	Б		
	Grey Francolin Indian Peafowl	Francolinus pondicerianus Pavo cristatus	Kowdhari Neela Mayil	R R	0	+
•		ו מיט טוופומוטפ	ivecia iviayii	П	J	т
	Order: Turniciformes Family: Turnicidae					
	Common Button Quail	Turnix suscitator	Kurung kaadai	R	1	+
	Order: Gruiformes					
	Family: Rallidae					
	White-breasted Waterhen	Amaurornis phoenicurus	Kambul Kozhi	R	!	+
	Little Crake	Porzana parva	Chinna Kaanaan Kozhi	М	!	June
	Ruddy-breasted Crake	Porzana fusca	Sivappu Kaanaan Kozhi	R	i i	June-Jul
	Water Cock Purple Moorhen	Gallicrex cinerea Porphyrio porphyrio	Thanneer Kozhi Neela Thaazhai Kozhi	M R	I I	June-Jul
	Common Moorhen	Gallinula chloropus	Thaazhai Kozhi	RM	i	++
	Common Coot	Fulica atra	Naamak Kozhi	RM	P	+
	Order: Charadriiformes					
	Family: Jacanidae					
	Pheasant-tailed Jacana	Hydrophasianus chirurgus	Neela Vaal Ilai Kozhi	R	0	Mar-Oct
	Family: Charadriidae					
	Little-ringed Plover	Charadrius dubius	Pattaani Uppukkothi	RM	1	Jul-Sep

Co	ommon Name	Scientific Name	Vernacular Name (Tamil)	Status	Feeding Habit	Observe Months
	llow-wattled Lapwing	Vanellus malabaricus	Manjchal Mookku Aalkatti	R	ļ.	+
	ed-wattled Lapwing	Vanellus indicus	Sivappu Mookku Aalkatti	R	I	+
	mily: Scolopacidae					
	ack-tailed Godwit	Limosa limosa	Karuvaal Mukkan	M	l I	Jul, Nov
	arsh Sandpiper	Tringa stagnatilis	Chinna Pachaik Kaali Pori Ullan	M M	1	# Sep
	ood Sandpiper ommon Sandpiper	Tringa glareola Actitis hypoleucos	Ullan	RM	i	Jun-Jan Jun-Jan
	mily: Recurvirostridae	Helilis Hypoleucos	Citari	1 11 11		our our
	ack-winged Stilt	Himantopus himantopus	Nedungaal Ullan	R	1	Jun-Dec
	ımily: Laridae				_	_
	ommon Tern ack-bellied Tern	Sterna hirundo	Aala	RM	P P	Sep
		Sterna acuticauda	Karuppu Vayitru Aala	R	P	Sep
	der: Columbiformes					
	mily: Columbidae	Only work of the 's	Manda B	Б	0	
	ue Rock Pigeon	Columba livia	Maada Pura	R	G	+
	tle Brown Dove	Streptopelia senegalensis	Chinna Thavittu Pura	R	G	+
•	ootted Dove	Streptopelia chinensis	Pullip Pura	R	G	+
	der: Psittaciformes					
	mily: Psittacidae	Psittacula krameri	Sonthaar Dunkili	D	F	
	ose-ringed Parakeet	гынасина ктаппеп	Senthaar Pynkili	R	Г	+
	der: Cuculiformes					
	mily: Cuculidae	Clamatoriacobinus	Sudalai Kuyil	DI/I	1	
	ed Crested Cuckoo sian Koel	Clamator jacobinus	Sudalal Kuyli Kokilam	RM R	I F	+
	reater Caucal	Eudynamys scolopacea Centropus sinensis	Shenbagam	R R	0	+
		Contropue enteriore	Shoribagain	11	J	'
	der: Strigiformes					
	i mily: Tytonidae arn Owl	Tyto alba	Koogai Aandhai	R	С	_
		i yiu aiva	Koogai Aandhai	П	C	+
	imily: Strigidae potted Owlet	Athene brama	Pulli Aandhai	R	С	+
•	der: Apodiformes					
	mily: Apodidae					
	sian Palm Swift	Cypsiurus balasiensis	Panai Uzhavaran	R	1	+
	buse Swift	Apus affinis	Naattu Uzhavaran	RM	i	+
0-	der: Coraciiformes					
	mily: Alcedinidae					
	nall Blue Kingfisher	Alcedo atthis	Siraal Meenkothi	RM	Р	+
	ork-billed Kingfisher	Halcyon capensis	Peria Alagu Meenkothi	R	Р	# Jul
	hite-breasted Kingfisher	Halcyon smyrnensis	Venmaarbu Meenkothi	R	Р	+
Le	sser Pied Kingfisher	Ceryle rudis	Karuppu Vellai Meenkothi	R	Р	+
Fa	mily: Meropidae					
	nall Bee Eater	Merops orientalis	Pachai Panchuruttan	R	1	+
	ue-tailed Bee Eater	Merops philippinus	Neelavaal Panchuruttan	RM	1	Oct-Nov
Ch	nestnut-headed Bee Eater	Merops leschenaulti	Chenthalai Panchuruttan	R	1	Oct
Fa	mily: Coraciidae					
	dian Roller	Coracias benghalensis	Panangadai	R	1	+
Fa	mily: Upupidae					
	ommon Hoopoe	Upupa epops	Kondalaathi	RM	1	+
Or	der: Piciformes					
	mily: Capitonidae					
	oppersmith Barbet	Megalaima haemacephala	Chemmarbu Kukkuruvaan	R	F	+
	mily: Picidae	,				
	sser Golden-backed Woodpecker	Dinopium benghalense	Ponmudhugu Maramkothi	R	1	+
		r	-			
	der: Passeriformes mily: Alaudidae					
	imily: Alaudidae ed-winged Bush-Lark	Mirafra erythroptera	Sivappu Irakkai Vanampaadi	R	1	4
	astern Skylark	Alauda gulgula	Chinna Vanampaadi	R R	i	+
	•	guigaia	Simila varianipadai			
	mily: Hirundinidae	Lliming do misotics	Thegairilean	DM		Oc+ 14.
	ommon Swallow	Hirundo rustica	Thagaivilaan	RM	1	Oct-Mar
	ed-rumped Swallow	Hirundo daurica	Sivappu Pitta Thagaivilaan	RM	1	Oct-Mar
	mily: Motacillidae	Advisor Street House	V II : V II	D14		
	hite Wagtail	Motacilla alba	Vellai Vaallatti	RM	1	Nov-Jan
	rge Pied Wagtail Ilow Wagtail	Motacilla maderaspatensis	Karuppu Vellai Vaallatti	R	1	+ Doo lon
	WWW WANTED	Motacilla flava	Manjchal Vaallatti	RM	1	Dec-Jan

	Common Name	Scientific Name	Vernacular Name (Tamil)	Status	Feeding Habit	Observed Months
81. 82.	Grey Wagtail Paddyfield Pipit	Motacilla cinerea Anthus rufulus	Karum Saambal Vaallatti Vayal Nettai Kaali	M R	1	Nov-Jan Jul-Nov
3.	Family: Campephagidae Common Woodshrike	Tephrodornis pondicerianus	Kaattu Keechaan	R	1	+
4. 5.	Family: Pycnonotidae Red-whiskered Bulbul Red-vented Bulbul	Pycnonotus jocosus Pycnonotus cafer	Sivappu Meesai Chinnaan Chinnaan	R R	F F	++
i.	Family: Laniidae Brown Shrike Rufous-backed Shrike	Lanius cristatus Lanius schach	Pazhuppu Keechaan Chemmudhugu Keechaan	M R	I I	Sep-Jan Nov-Jan
3.).	Order: Muscicapidae Turdinae Indian Robin Common Stonechat Pied Bushchat	Saxicoloides fulicata Saxicola torquata Saxicola caprata	Karunchittu Kalkuruvi Karuppu Vellai Pudhar Chittu	R RM R	 	+ Aug +
	Family: Timaliinae White-headed Babbler	Turdoides affinis	Venthalai Silamban	R	I	+
2. 3. 4. 5. 6. 7.	Family: Sylviinae Streaked Fantail-Warbler Ashy Prinia Paddyfield Warbler Blyth's Reed Warbler Indian Great Reed Warbler Common Tailor Bird Greenish Leaf Warbler Orphean Warbler	Cisticola juncidis Prinia socialis Acrocephalus agricola Acrocephalus dumetorum Acrocephalus stentoreus Orthotomus sutorius Phylloscopus trochiloides Sylvia hortensis	Karungottu Kadhirkuruvi Saambal Kadhirkuruvi Vayal Kadhirkuruvi Blyth Naanal Kadhirkuruvi Naanal Kadhirkuruvi Thaiyal Chittu Pachai Kadhirkuruvi Karunthalai Kadhirkuruvi	R R RM RM R R M		+ + Nov-Feb Nov-Feb + Nov-Dec Nov-Dec
0.	Family: Monarchinae Asian Paradise Flycatcher	Terpsiphone paradisi	Arasawall Eeppidippan	RM	I	+
1.	Family: Dicaeidae Tickell's Flowerpecker	Dicaeum erythrorhynchos	Tickall Malar Kothi	R	F	+
2. 3.	Family: Nectariniidae Purple-rumped Sunbird Purple Sunbird	Nectarinia zeylonica Nectarinia asiatica	Oodha Pitta Thenchittu Oodha Thenchittu	R R	N , I N , I	++
04. 05. 06.	Family: Estrildidae White-rumped Munia Spotted Munia Black-headed Munia	Lonchura striata Lonchura punctulata Lonchura malacca	Venmudhugu Chillai Pulli Chillai Karunthalai Chillai	R R R	G G G	+ + +
7.	Order: Passeridae Family: Passerinae House Sparrow	Passer domesticus	Chittu	R	G	+
8.	Family: Ploceinae Baya Weaver	Ploceus philippinus	Tookkanang Kuruvi	R	G	+
9. 0.	Family: Sturnidae Rosy Starling Common Mynah	Sturnus roseus Acridotheres tristis	Cholakkuruvi Naganavaai	M R	F O	Dec-Jan +
1. 2.	Family: Oriolidae Eurasian Golden Oriole Black-hooded Oriole	Oriolus oriolus Oriolus xanthornus	Maangkuil Karunthalai Maangkuil	RM R	I I	Nov-Jan # Dec
3.	Family: Dicruridae Black Drongo	Dicrurus macrocercus	Karung Karichaan	R	1	+
14. 15. 16.	Family: Corvidae Indian Treepie House Crow Jungle Crow	Dendrocitta vagabunda Corvus splendens Corvus macrorhynchos	Vaal Kaakkai Kaakkai Andang Kaakkai	R R R		+ + +

R - Resident; M - Migrant; RM - Resident Migrant; C - Carnivores; F - Frugivores; G - Granivores; I - Insectivores; N - Nectarivores; O - Omnivores; P - Piscivores; # - Recorded only once; + - Recorded through out the year

Six species, White-necked Stork (*Ciconia episcopus*), Eurasian Spoon Bill (*Platalea leucorodia*), Pallid Harrier (*Circus macrourus*), Marsh Sandpiper (*Tringa stagnatilis*), Stork-billed Kingfisher (*Halcyon capensis*) and Black-headed Oriole (*Oriolus xanthornus*)

were recorded only once throughout the study period; 67 species of birds were observed to occur throughout the year with little variations and 43 species showed seasonal migration. Among the bird species recorded from Singanallur lake, the Darter

(Anhinga melanogaster), Painted Stork (Mycteria leucocephala), Oriental White Ibis (Threskiornis melanocephalus), Pallid Harrier (Circus macrourus), Black-bellied Tern (Sterna acuticauda) and the Spot-billed Pelican (Pelecanus philippensis) are Near Threatened (IUCN, 2007).

Waterbirds, being generally at or near the top of most wetland food chains are highly susceptible to habitat disturbances and are therefore good indicators of the general condition of wetland habitats (Kushlan, 1992). Hence these small urban wetlands should be prioritized and its conservation values should be highlighted.

Clearing of vegetation at the bunds for commercial purposes, fire and release of sewage waste are serious threats to the habitat together with cattle grazing, feral dogs, wood cutting, weeds and fishing are some major threats to the bird diversity of the lake. Hence, full protection to the existing habitats should be given with special attention during the migratory period. This paper clearly represents that the lakes and ponds too support a great diversity of birds in an urban area as in parks or campuses reported by Patwardhan *et al.* (2000) and Ramakantha (2004).

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