

Diversity and future conservation strategy of wildlife at Ramna Park, Dhaka

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Abstract

Ramna Park is an important habitat and shelter of avifauna in Dhaka City. The Park also supported mammal, reptile, amphibian and butterflies. Many species of forest and migratory bird use the park as a shelter and stopover habitat during their migration period.

This paper/poster is presenting status of birds, reptiles, amphibians, mammals and butterfly of Ramna Park and future conservation strategy regarding wildlife conservation.

Introduction

Diversity of wildlife is one of the most important ecological indicators to evaluate the quality of habitats. Now-a-days, wildlife diversity has been decreasing due to the destruction of natural habitats and human disturbances. Thus, many species of wildlife especially the birds may be forced to inhabit in the urban areas. The Ramna Park is situated in the heart of Dhaka city. It is about 85 acres. The biodiversity of Ramna Park yet not properly documented except a survey conducted by Reza et. al (1978) for bird species.



Method

The study was carried out from January 2009 to November 2014. A total of 64 field visits were made at Ramna Park during the breeding and non-breeding seasons of wildlife. They study were done by making opportunistic sightings, walking transects and nocturnal survey. Transects were walked conducted in the morning, afternoon and night when the wildlife are most active. Numbers of birds seen (by sex) and heard calling were recorded and other biological data of wildlife were noted.

Results and Discussion

A total of 58 species of birds belonging to 22 families, 3 species of reptiles belonging to 4 families, 3 species of amphibians belonging to 2 families and 9 species of mammals belonging to 6 families and 32 species of butterflies belonging to 7 families have been recorded during the study time. Seasonal variation of bird also observed and documented. A total of 73 birds have been spotted (Khan. M. A. R., et al, 1978.) from Ramna Park. Due to significant change of habitat more than 30 species of bird now missing from the

previous list of (Khan. M. A. R., et al, 1978.). All records were kept in the tabulated form in the excel data sheets. The average number of individual species of bird was calculated. Common and scientific name of the birds, mammals, reptiles and amphibians was given according to (Siddiqui et al.20), (Ahmed, et al.) and (Kabir, et al). Birds are very common (VC) if the species was observed during almost all

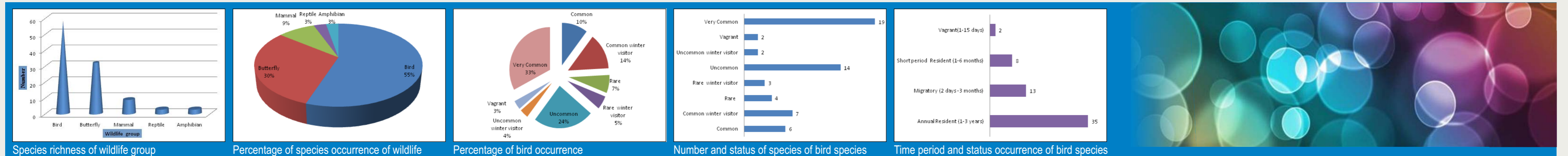


Table 1: Checklist of Bird

No.	English Name	Scientific Name	Status (Based on occurrence at Ramna Park only)
1	Alexandrine Parakeet	<i>Psittaculaeupatria</i>	Uncommon visitor
2	Ashy Drongo	<i>Dicrurusleucophaeus</i>	Common Winter visitor
3	Asian Koel	<i>Eudynamysscolopacea</i>	Very Common
4	Asian Palm Swift	<i>Cypsiurusbalasiensis</i>	Uncommon
5	Barn Owl	<i>Tyto alba</i>	Uncommon
6	Black Drongo	<i>Dicrurusmacrocerus</i>	Very Common
7	Black Kite	<i>Milvusmigrans</i>	Common
8	Black-crowned Night Heron	<i>Nycticoraxnycticorax</i>	Uncommon
9	Black-hooded Oriole	<i>Oriolusxanthornus</i>	Very Common
10	Blyth's Reed Warbler	<i>Acrocephalusdumetorum</i>	Common Winter Visitor
11	Brahminy Kite	<i>Haliasturindus</i>	Uncommon
12	Brown Hawk -Owl	<i>Ninoxscutulata</i>	Uncommon
13	Brown Shrike	<i>Laniuscristatus</i>	Common Winter Visitor
14	Chestnut-tailed Starling	<i>Sturnusmalabaricus</i>	Very Common
15	Clamorous Reed Warbler	<i>Acrocephalusstentoreus</i>	Common Winter Visitor
16	Common Iora	<i>Aegithinatiphia</i>	Uncommon
17	Common Kingfisher	<i>Alcedoatthis</i>	Uncommon
18	Common Myna	<i>Acridotherestrictis</i>	Very Common
19	Common Pigeon	<i>Columba livia</i>	Uncommon
20	Common Tailorbird	<i>Orthotomussutorius</i>	Common
21	Coppersmith Barbet	<i>Megalaimahaemacephala</i>	Very Common
22	Dark-sided Flycatcher	<i>Muscicapasibirica</i>	1 record
23	Dusky Warbler	<i>Phylloscopusfuscatus</i>	Common Winter visitor
24	Eurasian Golden Oriole	<i>Oriolusoriolus</i>	Uncommon
25	Eurasian Hoopoe	<i>Upupaepops</i>	Uncommon winter visitor
26	Eye-browed Thrush	<i>Turdusobscurus</i>	1 record
27	Fulvous-breasted Woodpecker	<i>Dendrocoposmacei</i>	Common
28	Green Bee-eater	<i>Meropsorientalis</i>	Very Common
29	House Crow	<i>Corvussplendens</i>	Very Common
30	House Sparrow	<i>Passer domesticus</i>	Very Common
31	Indian Pond Heron	<i>Ardeolagrarii</i>	Uncommon
32	Jungle Crow	<i>Corvusmacrorhynchos</i>	Very Common
33	Jungle Myna	<i>Acridotheresfuscus</i>	Uncommon
34	Lesser Goldenback	<i>Dinopiumbenghalense</i>	Common
35	Little Cormoant	<i>Phalacrocoraxniger</i>	1 record (Ramna Lake)
36	Little Swift	<i>Apusaffinis</i>	Common
37	Mrs Gould's Sunbird	<i>Aethopygagouldiae</i>	1 record
38	Olive back pipit	<i>Anthushodgsoni</i>	Common Winter Visitor
39	Orange-headed Thrush	<i>Zootheracitriana</i>	Rare visitor
40	Oriental Magpie-Robin	<i>Copsychussaularis</i>	Very Common
41	Pale-billed Flowerpecker	<i>Dicaeumerythrorhynchos</i>	Very Common
42	Pied Myna	<i>Sturnus contra</i>	Very Common
43	Purple Sunbird	<i>Cinnyrisasiaticus</i>	Very Common
44	Purple-rumped Sunbird	<i>Leptocomazeylonica</i>	Very Common
45	Red-breasted Parakeet	<i>Psittaculaalexandri</i>	Spring visitor
46	Red-vented Bulbul	<i>Pycnonotuscafer</i>	Very Common
47	Rose-ringed Parakeet	<i>Psittaculakrameri</i>	Very Common
48	Rufous Treepie	<i>Dendrocittavagabunda</i>	Very Common
49	Rufous woodpecker	<i>Celeusbrachyurus</i>	Uncommon visitor
50	Spotted Dove	<i>Streptopeliachinensis</i>	Common

Table 2: Checklist of Mammal

No.	English Name	Scientific Name	Status (Based on occurrence at Ramna Park only)
1	Irrawardy Squirrel	<i>Callosciuruspygerythrus</i>	Very Common
2	Flying Fox	<i>Pteropusgiganteus</i>	Very Common
3	Small Indian Mongoose	<i>Herpestesjavanicus</i>	Very Common
4	Indian Pipistrelle	<i>Pipistrelluscoromandra</i>	Common
5	Asian House Shrew	<i>Suncusmurinus</i>	Common
6	Lesser Bandicoot Rat	<i>Bandicotabengalensis</i>	Common
7	Little Indian Field Mouse	<i>Musbooduga</i>	Very Common
8	House Mouse	<i>Musmusculus</i>	Common
9	Five-striped Plam Squirrel	<i>Funambuluspennantii</i>	Very Common

Table 3: Checklist of Reptiles

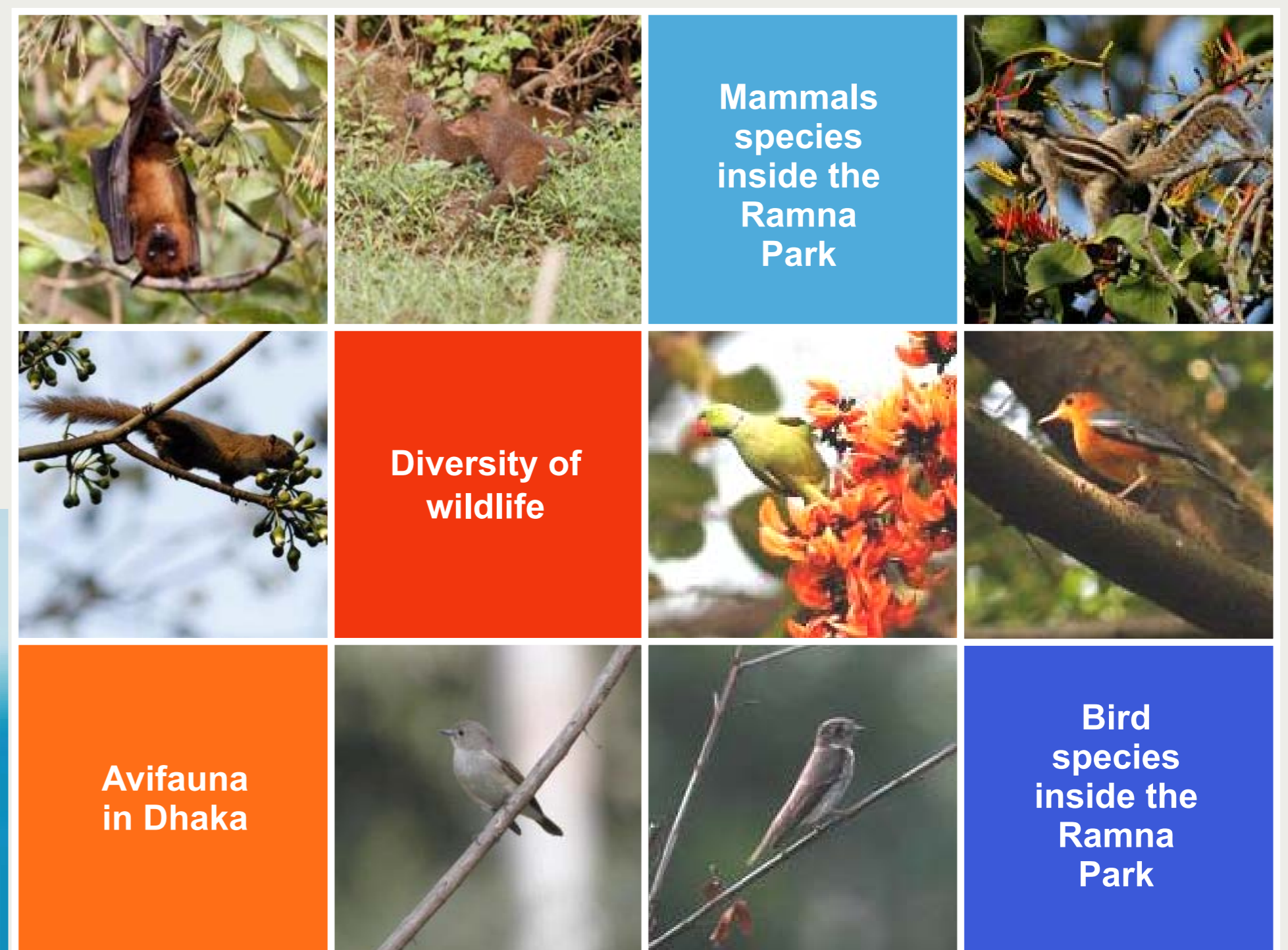
No.	English Name	Scientific Name	Status (Based on occurrence at Ramna Park only)
1	Keelad Grass skink	<i>Eutropiscarinata</i>	Uncommon
2	Indian Rat Snake	<i>Ptyasmucosus</i>	Rare
3	Checkered Keelback	<i>Xenochropispiscator</i>	Uncommon
4	Olive Keelback	<i>Atretiumschistosum</i>	Uncommon
5	Common Garden Lizard	<i>Calotesversicolor</i>	Uncommon
6	Common House Gecko	<i>Hemidactylusfrenatus</i>	Very Common

Table 3: Checklist of Reptiles

No.	English Name	Scientific Name	Status (Based on occurrence at Ramna Park only)
1	Skipper Frog	<i>Euphlyctiscyanophlyctis</i>	Uncommon
2	Common Toad	<i>Duttaphrynusmelanostictus</i>	Uncommon
3	Indian Bull Frog	<i>Hoplobatrachustigerinus</i>	Uncommon

Conservation Strategy:

- A small area of park should be conserved with local herb and shrub for a core zone for reptiles, mammals and ground dwelling birds.
- Proper implementation of rules and Laws regarding park conservation
- RamnaPark should be declared as a Protected Area for its ecological value regarding Dhaka City
- Public awareness programme should be implement for wildlife conservation
- Wildlife supporting tree specially for bird should be planted
- The people using the park as a ground of morning and evening exercise should use dustbin to through plastic materials



References

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