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DIVERSITY OF AVIAN FAUNA OF THE CHOPA VILLAGE, GONDIA DISTRICT, MAHARASHTRA INDIA

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Abstract

Birds are the beautiful aerial creatures on earth and its play an important role in ecological balance, Random survey carried out during June 2016 to December 2016 to study the diversity of Avian fauna of the Chopa village, Gondia District, Maharashtra. A total number of 126 species of birds were observed belonging 15 order and 43 families. Order Passeriformes were the most dominant species consisting of 20 families followed by the family Muscicapidae of this order to be dominant with 12 species. Out of total 126 species 20 are migrant, 71 are Resident and 35 are Resident migrant. Seasonal variation is well marked in birds due to the availability of food and nesting and suitable environmental conditions.

Keywords- Avian Fauna, Chopa village, Migratory, Residential

Introduction

Birds are the beautiful aerial creatures on earth and its play an important role in ecological balance (Datta, (2011). They provide a direct and indirect contribution to the ecosystem and act as an excellent indicator of environment (Bhandarkar and Paliwal (2014). They play the major role of scavengers and pollinating agents and also help in dispersal of seeds of different vegetations. Large forest area is available for nesting the birds, Chulband river is present near the Chopa village is the important water source for Gondia district to preserve its forest, wildlife, and tribal population depend on it. Therefore the present investigation carried out to prepare checklist of avian diversity and ecological status of birds species of this region near Gondia district.

Materials and Methods

Study Area

The avian survey was conducted around Chopa village of Gondia district; Maharashtra. Study area is located in the Nagpur division. 21°27'41"N 80°11'29"E This district covered with large biodiversity, it is famous for pond ecosystem and biodiversity zone. The study region consists of a variety of agriculture crops and vegetables. Gondia and Bhandara cities are famous for Rice cultivation and ponds. Five zones were selected for observe the biodiversity of birds located around Chopa village.

Data Collection

Random survey carried out during June 2016 to December 2016 to study the diversity of avian fauna of chopa village of Gondia district, Maharashtra. The observation of bird done at morning 6.30 am to 11.30 am and at evening 5 pm to 7 pm, in this time avian activities was in highest peak. Sometimes afternoon visits were made to observe the bird activities; particularly in winter season when migratory species reported in this area. The observations were made with the aid of binocular and Digital camera Nikon 5700D; lense 70-300mm was used for photography of birds. The line transects method (Ali, 2002 and Gregory et al., 2004) was used to study the avian population. The area of Chopa village near the Gondia district was covered by line transects method. The scientific and local names were ascertained based on the key of Manakadan and Occurrence status of each species is categorized as Residential (R), Residential migrant (RM), Migrant (M) and Winter Migrant (WM).

Table no.1: Table showing list of Avian Fauna of the Chopa village, Gondia District, Maharashtra

Sr. No	Order	Family	Scientific Name	Common Name	Stat us
1	Anseriform	Anatidae	Anas acuta	Northern Pintail	M
	es		Anas Penelope	Eurasian wigeon	M
			Anas platyrhynchos	Mallard	M
			Anas poecilorhyncha	Indian spot-billed duck	M
			Anas querquedula	Garganey	M
			Anas strepera	Gadwall	M
			Aythya ferina	Common pochard	M
			Dendrocygna javanica	Lesser whistling duck	RM
			Nettapus coromandelianus	Cotton pygmy goose	R
			Tadorna ferruginea	Ruddy shelduck	M
2	Apodiform es	2.Apodidae	Apus affinis	House Swift	R
3	Charadriifo	3.Jacanidae	Metopidius indicus	Bronze winged Jacana	R

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4 Columbifor mes Columbifor mes		rmes	4.Charadriidae	Actitis hypoleucos	Common Sandpiper	M
Columbifor mes						
mes	4	Columbifor	5.Columbidae	I .		
Streptopelia decaocto Eurasian Collared Dove RM	-				č	
Streptopelia orientalis Criental Turtle Dove RM						
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Coraciifor mes Coryole rudis Ped Kingfisher R						
Mes Kingfishers Ceryle rudis Pied Kingfisher R	5	Coraciifor	6.Alcedinidae		Common Kingfisher	R
Halcyon smyrmensis		mes	(Kingfishers)	Ceryle rudis	Č	R
Receaters Merops orientalis Small Bee eater R						R
T.Meropidae (Bee-eaters) Merops orientalis Small Bee eater R						
Receaters Merops philippinus Blue-tailed Bee-eater R			7.Meropidae	Merops orientalis	<u> </u>	R
8. Coraciidae Coracias benghalensis Indian Roller R 9. Upupidae Upupa epops Common Hoopoe R (Hoopoes) 10. Buccrotidae (Hombills) R (Indian Grey Hornbill R (Cucolks) Cacomantis passerinus Indian Plaintive cuckoo RM Cuculus canorus Common Cuckoo RM Cuculus varius Common hawk cuckoo RM Accipiter badius Shikra RM Accipiter virgatus Besra M Buteo buteo Common Buzzard RM Elanus caeruleus Black-shouldered Kite RM Milvus migrams Black-shouldered Kite RM Milvus migrams Black-shouldered Kite RM Gallus falyaetii Srilanka Junglefowl R Gallus falyaetii Srilanka Junglefowl R Gallus faryaetii Grey JungleFowl R Gallus faryaetii Grey JungleFowl R Parov cristatus Common Indian R Peafowl Passeriform Common Grane M Indian Grey Hornbill R Indian Grey Hornbill				-		
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Cuculiform es						
10.Bucerotidae (Hornbills)			9.Upupidae	Upupa epops	Common Hoopoe	R
Cuculiform es						
Cuculiform es				Ocyceros birostris	Indian Grey Hornbill	R
Passeriformes Cucuoks Cuculus canorus Common Cuckoo R			,			
Falconifor mes	6	Cuculiform		-		
Falconifor mes		es	(Cucooks)			
Falconifor mes				Cuculus micropterus		
Falconifor mes				Cuculus varius		
mes (Hawks,Kites and Eagles Accipiter nisus Bersa M						
Eagles Accipiter virgatus Besra Buteo buteo Common Buzzard RM Buteo buteo Elanus caeruleus Black-shouldered Kite RM Milvus migrans Black -kite RM Aquila rapax Tawny Eagle RM 8 Galliformes 13.Phasianidae Gallus gallus Gallus lafayetii Gallus sonneratii Grey JungleFowl R Pavo cristatus Common Indian Peafowl 15.Rallidae (Rails and Coots) Gallinula chloropus Common Moorhen R 10 Passeriform es 16.Alaudidae (Larks) Ammomanes phoenicura Calandrella brachydactyla Eremopterix griseus Ashy-crowned sparrow lark 17.Dicruridae (Drongos) 18.Campephagidae (Cuckooshriks and Minivets) Accipiter virgatus Besra M M Meh R R Meh R Amurorns Waterhen Common Moorhen R Rufous Tailed finch lark R Greater short toed lark RM Ashy-crowned sparrow lark Ashy-crowned sparrow lark Large Cuckooshrike R Tephrodornis pondicerianus Common Woodshrike	7	Falconifor		-		
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Terrerocorus Sinan minivet K				Pericrocotus	Small minivet	R

19.Corvidae Corvus splendens House Crow R (Crows and Corvus macrorhynchos Jungle Crow R Treepie) 20.Hirundinidae Hirundo concolor Dusky Crag Martin R (Swallows) Hirundo daurica Red-rumped swallow RM Hirundo smithii Wire-tailed swallow R		cinnamomeus		
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Tiermomeres I mound Jungle myna K			·	
Sturnia contra Asian pied starling R			· •	

			Sturnia nagodarum	Brahminy starling	R
			Sturnia pagodarum		
	a	27.0	Sturnia malabarica	Chestnut Tailed starling	M
11	Strigiforme	35.Strigidae	Athene brama	Spotted Owlet	R
	S				
12	Peleconifor	36.Phalacrocoracid	Phalacrocorax	Indian cormorant	R
	ms	ae	fuscicollis		
			Phalacrocorax Niger	Little cormorant	R
			Phalacrocorax Carbo	Great cormorant	M
13	Ciconiifor	37.Ardeidae	Ardea cinerea	Grey Heron	RM
	mes		Ardeola grayii	Indian pond heron	R
			Butorides striata	Striated heron	R
			Bubulcus ibis	Cattle egret	R
			Egretta garzetta	Little egret	R
			Ixobrychus minutus	Little bittern	M
		38.Ciconiidae	Anastomus oscitans	Asian openbill stork	RM
			Ciconia nigra	Black stork	M
			Ciconia ciconia	White stork	RM
		39.Threseskiornithi	Pseudibis papillosa	Red-naped ibis	RM
		dae		1	
14	Psittacifor	40.Psittacidae	Psittacula cyanocephala	Plum-headed parakeet	RM
	mes		Psittacula eupatria	Alexandrine parakeet	RM
			Psittacula krameri	Rose ringed parakeet	RM
15	Piciformes	41.Picidae	Chrysocolaptes festivus	White naped	R
				woodpecker	
			Dinopium benghalense	Black rumped	R
				flameback woodpeaker	



Photographs of some Birds species

Anseriformes Apodiformes Charadriiformes Columbiformes

Coraciiformes Cuculiformes

Gruiformes Passeriformes

Passeriformes

Priciformes

Priciformes

Priciformes

Priciformes

Priciformes

Priciformes

Figure no 1: Pie charts showing % of Avian Order

Result and Discussion

A total number of 126 species of birds were observed belonging 16 order and 43 families. Order Passeriformes were the most dominant species consisting of 20 families followed by the family Muscicapidae of this order to be dominant with 12 species. Out of total 126 species 20 are migrant, 71 are Resident and 35 are Resident migrant. Seasonal variation is well marked in birds due to the availability of food and nesting and suitable environmental conditions (Patil, and Tijare 2012). Passeriformes is more in number due to present plenty of food available for them in Agriculture field so they are survives in more number. The findings match with those of Harney et al., (2012); Parwate et al., (2012); Wanjari (2012) and Chavhan and Dhamani (2014).

Conclusion

This study contributes to the knowledge of bird diversity in Chopa village area and provides the most recent status of bird diversity in Gondia district. Our findings confirm that bird diversity in urban areas, such as a densely populated city, can be as great as that in present of dense forest which provide plenty of food sources to the avian fauna and water availability in all seasons. The total number of Bird species in Chopa village of Gondia was very similar to that of nearest protected areas.

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