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Status, Guild and Diversity of Avian Fauna in Shergarh Wildlife Sanctuary, Atru District, Baran, Rajasthan, India

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ABSTRACT: To assess the bird diversity and guild status in the wildlife sanctuary, a study on bird diversity was carried out in the Shergarh Wildlife Sanctuary, Atru, Baran district of Rajasthan from February 2022 to January 2023. The survey resulted in the identification and listing of 125 species from 18 orders, 50 families, and 86 genera. The entire Shergarh Wildlife Sanctuary was covered by a species checklist of birds. Numerous bird species were recorded in the region's green spaces, marshes, and terrestrial habitats. 62 species were discovered to be residents, 39 to be seasonal, and the rest rare species on habitat status. In the Shergarh Wildlife Sanctuary, there are 28 (17.64%) omnivores, 29 (23.21%) carnivores, 50 (40%) insectivores, 12 (9.6%) granivores, 3 (2.4%) frugivores, and 3 (2.4%) nectarivores birds. There are many different plant species in the area, which in various ways add to the diversity of bird species. The region has common species, seasonal species, and species listed in the Red Data Book and IUCN. The review here highlights the various aspects of bird diversity that were cataloged over the months and will form the basis for further research. It is intended that the study will be helpful in drawing the attention of the public and state government towards the conservation of the Shergarh Wildlife Sanctuary and the protection of its avian fauna. The present study highlights many aspects of the diversity of birds and their status that have been compiled over the past few months and will serve as the foundation for more study. It is intended that this study will be useful in bringing Shergarh Wildlife Sanctuary protection, as well as the security and welfare of its avian fauna, to the public's and the state government's notice.

Key words: Shergarh, Wildlife Sanctuary, bird diversity, Red Data Book species.

INTRODUCTION

India is a diverse nation. There are over 92,037 species of animals and 40,000 species of plants in India due to its diverse climatic and physical conditions (Garden *et al.*, 2007; Grimmett *et al.*, 2016; Hansell, 2000). There are numerous wildlife sanctuaries, national parks, tiger reserves, etc., for the preservation of animals. It has 27 wildlife sanctuaries in Rajasthan and 544 in India; one of these, Shergarh Wildlife Sanctuary, is well-known for being a haven for snakes (Jatav *et al.*, 2023). The Shergarh Wildlife Sanctuary is the only undiscovered sanctuary in Rajasthan that retains historical events and natural beauty. It is in the final forest block of the Vindhya Mountain range.

The Shergarh Wildlife Sanctuary, which has a size of 98.8 sq km, is situated on the outskirts of "Varah Nagari," or Shergarh town, in Atru tehsil of Baran district (Bailey and King 2019; Koli, 2014). This sanctuary's geographic position, the evergreen Parvan River, the rain gutters, and the wildlife naturally draw visitors. On July 30, 1983, this region was designated a refuge because of its biodiversity. In this regard, the state administration issued a revised notification on

May 25, 1992, in which its forest area was increased and given the name Shergarh Wildlife in recognition of the historical significance of the Shergarh hamlet (Koshelev *et al.*, 2019; Kumar and Gupta 2013).

The amazing valley of the Vindhya Mountain, with its physical layout like a horseshoe, is where the Shergarh Wildlife Sanctuary is located. The sanctuary's center marks the southernmost point of its boundaries, which extends to the slope of Parvan in the north. Two sections make up the valley. The Ancholi Dam covers the first half, while the Surpa Village residents' fields cover the other half. The unique feature is that not a single village's dwelling can be found within this sanctuary's perimeter (Rahman and Ismail 2018; Rahmani *et al.*, 2016). Because of this, wild creatures are free to travel across the forest. This sanctuary contains a fort known as Shergarh Fort that is situated on the Parvan River's banks.

The Shergarh Wildlife Sanctuary has a diverse range of flora and fauna. Lichen trees, algae, fungi, bryophytes, pteridophytes, and numerous kinds of angiosperm plants, bulbous plants, and vines may all be found in the local woodlands. Here you can also find rare Chironji (*Buchanania lanzan*) trees. Special attractions in this

area are the yellow-flowered forms of palash (Butea monosperma var. lutea), ghamhad (Gmelina arborea), and donkey palash (Erythrina suberosa) (Singh et al., 2017; Young et al., 2019). The fauna in Shergarh Sanctuary has long been renowned. The hunting malls that can be seen here are proof that the Maharaos of the princely state of Kota loved to hunt tigers in the former Shergarh. Tigers were present in Shergarh until the end of the 1970s, but hunting led to their extinction in this area in the early 1980s (Kumar and Sahu 2019; 2020; Pattimahu et al., 2017). Panthers can live in this jungle with ease. Therefore, this location is ideal for panther rehabilitation. The wolf, which was previously thought to be extinct in this region, was recently discovered to be present. The Shergarh Sanctuary is home to more than 200 different bird species. Some of which are listed in the Indian Red Data Book under distinct categories by the IUCN (Banerjee and Pal 2016). For example, Spoonbill, Osprey, and Indian Peafowl are included in the Threatened category, whereas White-Bellied Minivet, White-Winged Black Tit, Asian Open-Billed Stork, White-Vulture, King Vulture, and Red-Necked Falcon are listed in the Near Threatened category(Pragasan and Madesh 2018). Some. In addition to this, the slopes of Shergarh Fort, which face

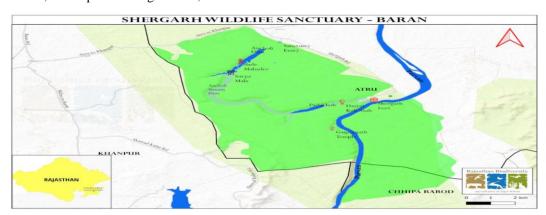
the river, are home to a colony of long-billed vultures, which are endangered. During the monsoon season, Shergarh is perhaps the greatest site in Hadoti to watch the Navrang bird (Indian Pitta) and Shah Bulbul (*Paradise Flycatcher*) (Garden *et al.*, 2007; Grimmett *et al.*, 2016; Hansell, 2000).

The Shergarh Wildlife Sanctuary has well-known lowlying marshy land with fresh water. However, this sanctuary is degrading because of farming operations, pollution, tourism, habitat fragmentation, and disturbance from residents of the fort in the region. To create long-term government conservation policies, the current study aims to characterize the composition, condition, distribution, and habitat usage of the avifauna in Shergarh Wildlife Sanctuary, Baran.

MATERIALS AND METHODS

A. Study area

The research was done at the Shergarh Wildlife Sanctuary, which is in Shergarh and Atru tehsil of Baran district. The study was done in an area of 98.8 square kms where there are about 30000 trees which are the habitat for the birds (Boyce *et al.*, 2016). Birds had seen with the help of binoculars from Shergarh Fort.



B. Equipment used and Area search

For bird viewing, Nikon Monarch 510×42 binoculars were employed. Comprehensive data on avian diversity were gathered using the field research approach. This approach comprises conducting a time-limited survey of a predetermined area during which the observer records all birds heard or observed, identifying those heard within, outside, and flying over the search zone. While seated and standing from a hiding position, birds were seen and named. The birds were seen between 7am to 11 am and 16 pm to 19 pm, and their species were recorded and recognized using conventional reference materials such as books, websites, mobile applications, etc.

C. Bird observation technique

Being an active and spirited animal, birds can be difficult to recognize. To spot birds quickly, one must have a fast eye. Birds were recognized by keeping a watch on them while movement, eating habits, shape, identifying stripes, color patches, size, and songs were

all documented. The length and form of the bird feathers, the color of the feet and claws, and the stage of flight were all documented. The birds' residence status was recorded and classified as "passage visitor," "winter visitor," "summer visitor," and "resident." Birds that were regularly observed in the study area were classified as "residential," while those observed only during the winter and summer seasons were classified as seasonal birds.

The formula below was used to compute relative diversity (RD):

$$RD = \frac{Number \ of \ species \ in \ a \ family}{Total \ number \ of \ species} \times 100$$

RESULT AND DISCUSSION

After 12 months of continuous observation, from February 2022 to January 2023, we identified 125 bird species, which are mentioned in Table below

Sr. No.	Order	Family	Scientific name	Common name	Status in sanctuary	Guild
			Accipiter badius	Shikra	Resident	Carnivorous
			Circus macrourus	Pied harrier	Seasonal	Omnivorous
			Buteo buteo	Common buzzard	Seasonal	Omnivorous
			Elanus caeruleus	Black shouldered kite	Resident	Omnivorous
			Milvus migrans	Black kite	Resident	Carnivorous
			Circaetus gallicus	Short- toed snake eagle	Seasonal	Omnivorous
1.			Aquila nipalensis	Steppe eagle	Seasonal	Omnivorous
			Cricus aeruginosus	Wastern marsh harrier	Seasonal	Omnivorous
	Accipitriformes	Accipitridae	Neophrom percnopterus	Egyptian vulture	Resident	Carnivorous
			Gyps idicus	Indian vulture	Resident	Carnivorous
			Accipiter virgatus	Besra	Resident	Insectivorous
			Sarcogyps calvus	Red headed vulture	Resident	Carnivorous
		Pandionidae	Pandion haliaetus	Osprey	Rare	Carnivorous
			Anas strepera	Gadwall	Seasonal	Omnivorous
2.	Anseriformes	Anatidae	Anas clypeata	Northern shoveler	Seasonal	Omnivorous
			Dendrocygna javanica	Lasser whistling	Resident	Omnivorous
				duck Common teal	Seasonal	Omnivorous
3.	Apodiformes	Apodidae	Anas crecca	House swift	Resident	Insectivorous
٦.	Apounormes	Apouluae	Apus affinis	Indian pond		
			Ardeola grayii	heron	Resident	Carnivorous
			Ardea cinerea Ardea purpurea	Gray heron Purple heron	Resident Resident	Carnivorous Carnivorous
		Ardeidae	Egretta sacra	Pacific reef heron	Resident	Carnivorous
4.	Pelecaniformes	Aruciuae	Casmerodius albus	Great egret	Resident	Carnivorous
			Egretta garzeetta	Little egret	Resident	Carnivorous
			Bubulcus ibis	Cattle egret	Rare	Carnivorous
			Platalea leucorodia	Spoon bill	Rare	Carnivorous
		Threskiornithidae	Pseudibis papillosa	Indian black ibis	Rare	Carnivorous
5.	Bucerotiformes	Bucerotidae	Ocyceros birostris	Indian gray hornbill	Resident	Omnivorous
		Upupidae	Upupa epops	Common hoopoe	Resident	Insectivorous
	Charadriiformes		Tringa tetanus	Red shank	Seasonal	Insectivorous
			Tringa stagnatillis	Marsh sandpiper	Seasonal	Insectivorous
			Tringa glareola	Wood sandpiper Common	Seasonal	Insectivorous
		Charadriidae	Tringa hypoleucos	sandpiper	Seasonal	Insectivorous
			Vanellus indicus	Red wattled lapwing	Resident	Insectivorous
6.		Recurvirostridae	Himantopus himantopus	Black winged stilt	Resident	Carnivorous
			Recurvirostra avosetta	Pied avocet	Seasonal	Insectivorous
		Jacanidae	Metopidius indicus	Bronze winged jacana	Seasonal	Carnivorous
		Scolopacidae	Tringa nebularia	Common green shank	Seasonal	Insectivorous
	Columbiformes	Columbidae	Streptopelia decaocto	Eurasian collard- dove	Resident	Granivorous
			Streptopelia tranquebarica	Red collard dove	Resident	Granivorous
7.			Streptopelia senegalensis	Laughing dove	Resident	Granivorous
<i>,</i> .			Streptopelia chinensis	Spotted dove	Resident	Granivorous
			Columba livia	Rock pigeon	Resident	Granivorous
			Treron phoenicoptera	Yellow footed green pigeon	Resident	Frugivorous
		Coraciidae	Coracias benghalensis	Indian roller	Resident	Carnivorous
	Coraciiformes		Coracias garrulous	Eurasian roller	Resident	Carnivorous
8.		Meropidae	Merops orientalis	Green bee-eater	Resident	Insectivorous
0.			Merops philippinus	Blue tailed bee- eater	Seasonal	Insectivorous
		Alcedinidae	Halcyon smyrnensis	White throated	Resident	Carnivorous
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				kingfisher		
			Halcyoninae	Tree kingfisher	Resident	Carnivorous
		Meropidae	Merops pericus	Blue cheeked bee-eater	Seasonal	Insectivorous
			Eudynamys scolopacea	Asian koel	Resident	Omnivorous
9.	Cuculiformes	Cuculidae	Clamtor jacobinus	Pied cukoo	Seasonal	Omnivorous
			Hierococcyx varius	Papiha	Resident	Insectivorous
10	Piciformes	Picidae	Dendrocopos mahrattensis	Yellow crowned woodpeacker	Rare	Insectivorous
10.	richormes		Dinopium benghalense	Black rumped flameback	Rare	Insectivorous
11.	Psittaciformes	Psittacidae	Psittacula krameria	Rose ringed parakeet	Rare	Granivorous
			Porphyrio porphyrio	Purple swamphen	Rare	Omnivorous
		Ralliadae	Gallinulla chloropus	Comman moorhen	Resident	Omnivorous
12.	Gruiformes		Amaurornis phoenicurus	White breasted waterhen	Resident	Omnivorous
		Gruidae	Indian sarus crane	Antigone antigone	Rare	Carnivorous
13.	Strigiformes	Strigidae	Athene brama	Spotted owlet	Resident	Insectivorous
			Mycteria leucocephala	Panted stork	Rare	Carnivorous
14.	Ciconiiformes	Ciconiidae	Ciconia episcopus	Wooly nacked stork	Resident	Carnivorous
-			Anastomus oscitans	Asian open billed stork	Rare	Carnivorous
15.	Falconiformes	Falconidae	Falco chicquera chicquera	Red nacked falcon	Resident	Carnivorous
			Coturnix coturnix	Common bater	Resident	Insectivorous
	~		Pavo cristatus	Indian peafowl	Resident	Omnivorous
16.	Galliformes	Phasianidae	Francolinus pondicerianus	Gray francolin	Resident	Omnivorous
			Francolinus francolinus	Black francolin	Resident	Omnivorous
17.	Suliformes	Phalacrocoracidae	Microcarbo niger	Little cormorant	Resident	Carnivorous
		Zostropidae	Zosterops meyny	Lowland white eye	Resident	Carnivorous
		Muscicaoidae	Copsychus fulicatus	Magpie robin	Resident	Carnivorous
		Campethagidae	Pericrocotus erythropygius	white bellied minivet	Resident	Insectivorous
		Pycnonotidae	Pycnonotus leucotis	White eared bird	Resident	Insectivorous
		Muscicapidae	Copsychus saularis	Oriental magpie robin	Resident	Insectivorous
			Calandrilla brachydactyla	Greater short toed lark	Resident	Omnivorous
			Galerida cristata	Crested lark	Rare	Omnivorous
		Alaudidae	Ammomanes deserti	Desert lark	Rare	Omnivorous
			Eremopterix grisea	Ashy crowned sparrow lark	Rare	Omnivorous
			Ammomanes phoenicurus	Rufous tailed lark	Rare	Omnivorous
		Corvidae	Corvus splendens	House crow	Resident	Carnivorous
18.		Ti-4	Dendrocitta vagabunda	Roufous treepie	Rare	Frugivorous
		Estrildidae	Lonchura malabarica	Indian silver bill	Rare	Omnivorous
			Hirundo rustica Cecropis daurica	Barn swallow Red rumped swallow	Seasonal Rare	Insectivorous Insectivorous
		Hirundinidae	Petrochelidon fluvicola	Streak throated swallow	Rare	Insectivorous
			Hirundo smithii	Wire tailed swallow	Rare	Insectivorous
		Dicruridar	Dicrurus macrocercus	Black drongo	Resident	Insectivorous
			Motocilla alba	White waigtail	Seasonal	Insectivorous
			Motacilla citreola	Citrine wagtail	Seasonal	Insectivorous
		Motacillidae	Motacilla flava	Yellow waigtail	Seasonal	Insectivorous
			Anthus hodgsoni	Indian tree pipit	Seasonal	Insectivorous
	Passeriformes		Anthus malcolmi	Tree pipit	Seasonal	Insectivorous
		Laniidae	Tudoides comprestris	Tawny pipit	Seasonal	Insectivorous
			Lanius vittatus	Bay backed shrike	Rare	Insectivorous
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		Lanius meridionalis	Southern gray shrike	Rare	Insectivorous
		Turdoides malcolmi	Large gray babbler	Resident	Insectivorous
		Turdoides striata	Jungle babbler	Resident	Insectivorous
		Phoenicurus ochruros	Black redstart	Seasonal	Insectivorous
		Montricola solitaries	Blue rock thrush	Seasonal	Omnivorous
	Laiathriahidaa	Luscinia svecica	Bluethroat	Seasonal	Insectivorous
	Leiothrichidae	Phylloscopus humei	Hume's leaf warbler	Seasonal	Insectivorous
		Phylloscopus collybita	Chiffchaff warbler	Seasonal	Insectivorous
		Nectarinia asiatica	Purple sunbird	Resident	Nectarivorous
	Nectariniidae	Cinnyris lotenius	Long billed sunbird	Resident	Nectarivorous
		Arachnothera longirostra	Little spider hunter	Resident	Nectarivorous
	Oriolidae	Oriolus oriolus	Eurasian golden oriole	Seasonal	Omnivorous
		Acridotheres ginginianus	Bank myna	Resident	Granivorous
	Sturnidae	Acridotheres tristis	Common myna	Resident	Granivorous
		Sturnus pagodrum	Brahminy starling	Resident	Granivorous
		Sturnus contra	Asian pied starling	Resident	Granivorous
		Sturnus roseus	Rosy starling	Resident	Granivorous
	Pycnonotidae	Psycnotus cafer	Red vented bulbul	Resident	Frugivorous
	Ploceidae	Ploceus philippinus	Baya weaver	Rare	Omnivorous
	Sylviidae	Sylvia curruca	Lesser white throat	Seasonal	Insectivorous
	Passeridae	Passer domesticus	House sparrow	Resident	Granivorous
		Oenanthe deserti	Desert wheatear	Seasonal	Insectivorous
		Saxicola insignis	Common stonechat	Seasonal	Insectivorous
	Muscicapidae	Saxicola caprata	Pied bushchat	Seasonal	Insectivorous
		Saxicola torquate	African stone chat	Seasonal	Insectivorous
		Oenanthe picata	Variable wheatear	Seasonal	Insectivorous
	Laniidae	Lenius Schach	Long tailed shrike	Rare	Insectivorous
	Pittidae	Pitta brachyura	Indian pitta	Seasonal	Insectivorous
	Monarchidae	Paradise Flycatcher	Shah bulbul	Seasonal	Insectivorous

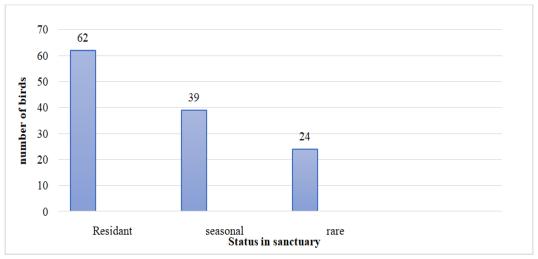


Fig. 1. Status of Avian fauna in the wild life sanctuary.

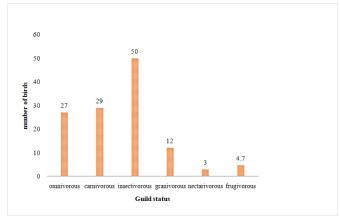


Fig. 2. Guild based Status of Avian fauna in the wild life sanctuary.

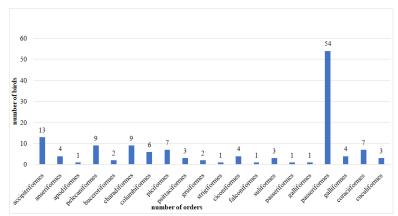


Fig. 3. Relative diversity among all Avian fauna orders in the wild life sanctuary.

The most frequented bird species are the Jungle Babbler, Indian Myna, Blue Rock Pigeon, Black Drongo, Racket-Tailed Drongo, Indian Robinbird, White-Throated Kingfisher, and Red-Vented Bulbul. Throughout the course of the investigation, odd species such as the Indian Grey Hornbill, Woodpecker, Shikra, Papiha, Indian Golden Oriole, Indian Roller, and Besra were also observed. Additionally, there were a few monsoon-season species, including the Shah Bulbul (*Paradise Flycatcher*) and the Navrang bird (*Indian Pitta*). White-Bellied Minivet and Indian Black Ibis,

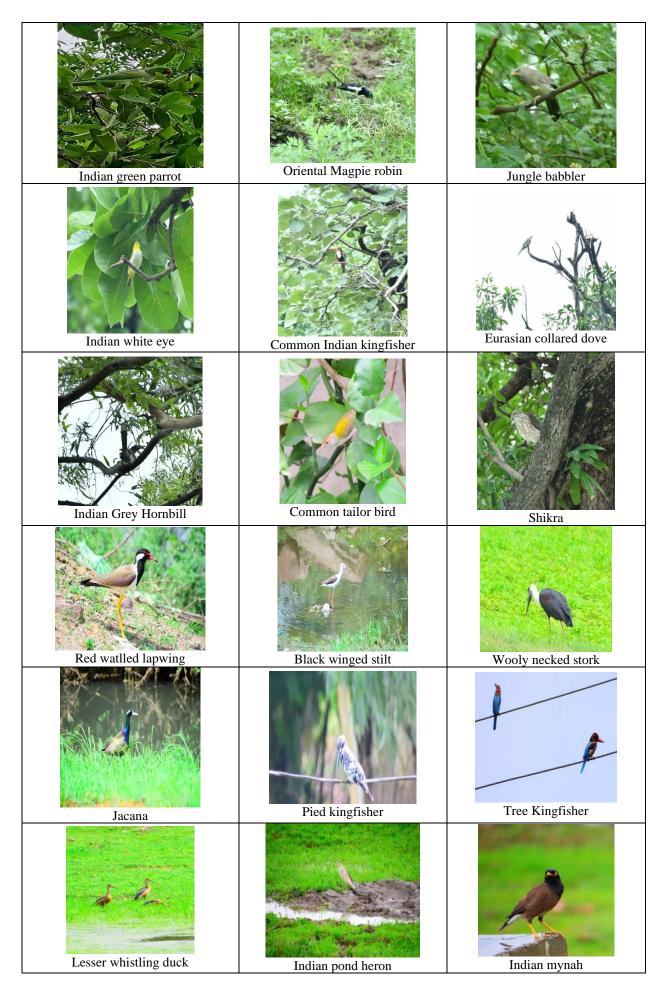
two birds on the IUCN Red List, were also spotted (Kaushik and Gupta 2016; IUCN, 2020).

Birds in the Vulnerable category, including Spoonbill, Osprey, and Indian Peafowl, as well as birds in the Threatened category, including Painted stork, white-winged black tit, Asian open-billed stork, white-vulture, and king vulture were also observed.

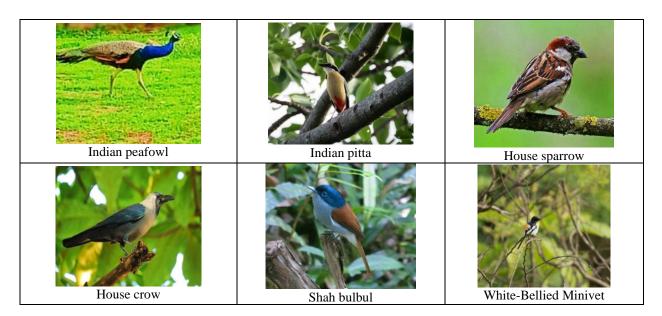
A one-year study has revealed that out of 125 species, 28 (17.64%) are omnivorous, 29 (23.21%) are carnivorous, 50 (40%) are insectivorous, 12 (9.6%) are granivorous, 3 (2.4%) are frugivorous and 3 (2.4%) are nectarivorous.



Jatav et al.,







CONCLUSIONS

A total of 125 different bird species were seen in all. A significant wetland region that draws birds may be found at the Shergarh Wildlife Sanctuary along with a variety of plants and animals. This bird fauna is under risk from anthropogenic problems such as habitat fragmentation and degradation, pressure from tourism, and water scarcity in the summer. Additionally, stray dogs, wild cattle, and Nilgai (Boselaphus tragocamelus) herds crushed the chicks and eggs of water birds in this reserve. A greater knowledge of ecological needs and the number of visiting birds will be necessary for the conservation of avian species. The development of conservation plans for this sanctuary and wetland birds in general will benefit from more surveys and in-depth research conducted during various seasons.

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Conflict of Interest. None.

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