

Addition of some bird species to checklist of Nandankanan wildlife sanctuary, Odisha

Introduction

Conservation of taxa in a given landscape starts with a sound knowledge on the species available or a checklist of the same. In the present days the growing interest on bird watching made the birds among the most studied taxa. Present communication reports addition of some bird species to the existing checklist of birds of Nandankanan Wildlife Sanctuary (NWS). NWS is located between 20°23'08" to 20°24'10"N and 85°48'09" to 85°48'13" E, spreading over an area of 4.37 sq.km in the state of Odisha, Eastern India. The sanctuary comprises of Nandankanan Zoological Park, State Botanical Garden, Kanja Lake: an wetland of national importance and forest lands with other small to medium wetlands. It has moist mixed deciduous vegetation and moderately hot humid climate with average temperature of 30°C with annual average rainfall of 1350mm.

Methodology

Field surveys were carried out *ad libitum* by the authors inside the sanctuary area between February 2014 and January 2019. Bird species were identified on site and confirmed following standard identification.¹⁻³

Result and discussion

Earlier studies have documented 124 species of birds⁴⁻⁷ at Nandankanan Wildlife Sanctuary (Figure 1) in the state Odisha, eastern India. The

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present communication reports additional 46 species of the birds sighted and/or photo-documented during the study period (Table 1), (Figure 2). Detailed study is needed to find out any additional species available, their seasonal migration, feeding and breeding biology.

Table 1 List of additional birds sighted in Nandankanan Wildlife Sanctuary

Sl. No	Order	Family	Common name	Scientific name	Remarks
1.	Accipitriformes	Accipitridae	Oriental honey buzzard	<i>Pernis ptilorhynchus</i>	Sighted on 07.01.2019 while it hovering above Kanja lake
2.	Accipitriformes	Accipitridae	Black-winged kite	<i>Elanus caeruleus</i>	Seen during bird census 2019 near Kanja lake on 03.01.2019
3.	Accipitriformes	Accipitridae	Besra	<i>Accipiter virgatus</i>	Few sightings while it hovering above Badabanka pata, Nandankanan and Hameratangi area, Nandankanan
4.	Accipitriformes	Accipitridae	Crested goshawk	<i>Accipiter trivirgatus</i>	Few sightings while it hovering above Badabanka pata, Nandankanan and Hameratangi area, Nandankanan
5.	Accipitriformes	Accipitridae	Eurasian Marsh Harrier	<i>Circus aeruginosus</i>	One individual sighted hovering near Kanja lake on 27.01.2017
6.	Charadriiformes	Scolopacidae	Common red shank	<i>Tringa totanus</i>	Sighted near Kanja lake area on 10.01.2018
7.	Charadriiformes	Scolopacidae	Common sandpiper	<i>Actitis hypoleucos</i>	Sighted near Kanja lake area on 10.01.2018
8.	Charadriiformes	Scolopacidae	Marsh sandpiper	<i>Tringa stagnatilis</i>	Sighted near Kanja lake area on 10.01.2018
9.	Charadriiformes	Charadriidae	Grey headed lapwing	<i>Vanellus cinereus</i>	Sighted near Kanja lake area on 10.01.2018
10.	Charadriiformes	Charadriidae	River lapwing	<i>Vanellus duvaucelii</i>	Sighted near Kanja lake area on 10.01.2018
11.	Charadriiformes	Laridae	River tern	<i>Sterna aurantia</i>	Seen during bird census 2019 on 03.01.2019
12.	Coraciiformes	Alcedinidae	Black capped Kingfisher	<i>Halcyon pileata</i>	One individual observed on 23.03.2013 near holiday cottage of State Botanical Garden
13.	Columbiformes	Columbidae	Yellow-footed green pigeon	<i>Treron phoenicoptera</i>	Six individuals were observed on 17.02.2018
14.	Columbiformes	Columbidae	Orange-breasted green pigeon	<i>Treron bicinctus</i>	Few sightings at State Botanical Garden

Table Continued

Sl. No	Order	Family	Common name	Scientific name	Remarks
15.	Cuculiformes	Cuculidae	Chestnut winged cuckoo	<i>Clamator coromandus</i>	Two sightings in State Botanical Garden area one in June, 2014 and other January, 2015
16.	Cuculiformes	Cuculidae	Grey-bellied cuckoo	<i>Cacomantis passerinus</i>	Observed near Children park, Nandankanan during bird census 2017
17.	Falconiformes	Falconidae	Common Kestrel	<i>Falco tinnunculus</i>	Sighted near Hamera tangi area on 10.01.2018
18.	Gruiformes	Rallidae	Baillon's Crake	<i>Zapornia pusilla</i>	One individual sighted in the swampy bush of Kanja lake
19.	Passeriformes	Hirundinidae	Wire-tailed swallow	<i>Hirundo smithii</i>	Frequently observed during the study period
20.	Passeriformes	Hirundinidae	Red-rumped swallow	<i>Cecropis daurica</i>	Frequently observed during the study period
21.	Passeriformes	Cisticolidae	Plain prinia	<i>Prinia inornata</i>	Frequently observed during the study period
22.	Passeriformes	Acrocephalidae	Clamorous reed warbler	<i>Acrocephalus stentoreus</i>	One individual sighted near bush of kanja lake 19.11.2016
23.	Passeriformes	Sturnidae	Chestnut tailed starling	<i>Sturnia malabarica</i>	Frequently observed during the study period
24.	Passeriformes	Sturnidae	Rosy starling	<i>Pastor roseus</i>	A flock observed near Mughal garden of State Botanical Garden during summer season 2017
25.	Passeriformes	Muscicapidae	White rumped shama	<i>Copsychus malabaricus</i>	Frequently observed during the study period
26.	Passeriformes	Muscicapidae	Asian brown flycatcher	<i>Muscicapa latirostris</i>	Frequently observed during the study period
27.	Passeriformes	Muscicapidae	Asian verditer flycatcher	<i>Eumyias thalassinus</i>	Frequently observed during the study period
28.	Passeriformes	Muscicapidae	Red breasted flycatcher	<i>Ficedula parva</i>	Frequently observed behind the butterfly garden after 19.11.2016
29.	Passeriformes	Muscicapidae	Blue throated blue flycatcher	<i>Cyornis rubeculoides</i>	One individual observed near Butterfly garden of State Botanical Garden on 19.11.2016
30.	Passeriformes	Motacillidae	Grey wagtail	<i>Motacilla cinerea</i>	Seen during winter season 2017
31.	Passeriformes	Motacillidae	Citrine wagtail	<i>Motacilla citreola</i>	Sighted near Kanja lake on 10.01.2018
32.	Passeriformes	Motacillidae	Yellow wagtail	<i>Motacilla flava</i>	Sighted near Kanja lake area on 07.01.2019
33.	Passeriformes	Oriolidae	Black naped oriole	<i>Oriolus chinensis</i>	It had been frequently observed on large trees during winter months
34.	Passeriformes	Muscicapidae	Blue rock thrush	<i>Monticola solitarius</i>	Sighted in State Botanical Garden
35.	Passeriformes	Muscicapidae	Pied bushchat	<i>Saxicola caprata</i>	Frequently observed during the study period
36.	Passeriformes	Motacillidae	Olive backed pipit	<i>Anthus hodgsoni</i>	Seen in State Botanical Garden on 22.10.2016
37.	Passeriformes	Laniidae	Long tailed shrike	<i>Lanius schach</i>	Sighted near Hamera tangi area, Nandankanan on 07.01.2019
38.	Passeriformes	Acrocephalidae	Booted warbler	<i>Iduna caligata</i>	Sighted near Hamera tangi area, Nandankanan on 03.01.2019
39.	Passeriformes	Hirundinidae	House martin	<i>Delichon urbicum</i>	Sighted near Hamera tangi area, Nandankanan on 03.01.2019
40.	Passeriformes	Estrildidae	Spotted munia	<i>Lonchura punctulata</i>	Frequently observed to be nesting in the <i>Cycas</i> plants at Forest rest house, Nandankanan
41.	Passeriformes	Campephagidae	Small minivet	<i>Pericrocotus cinnamomeus</i>	One male observed on 16.02.2014 near Hamera tangi area, Nandankanan
42.	Passeriformes	Cisticolidae	Ashy prinia	<i>Prinia socialis</i>	Frequently observed during the study period
43.	Pelecaniformes	Ciconiidae	Lesser adjutant stork	<i>Leptoptilos javanicus</i>	Sighted near Hamera tangi area, Nandankanan on 10.01.2018
44.	Piciformes	Picidae	Fulvous-breasted woodpecker	<i>Dendrocopos macei</i>	Sighted in Hamera tangi area, Nandankanan and State Botanical Garden
45.	Phoenicopteriformes	Podicipedidae	Little grebe	<i>Tachybaptus ruficollis</i>	Two individuals seen in Kanja lake on 26.12.2015
46.	Strigiformes	Strigidae	Brown hawk owl	<i>Ninox scutulata</i>	One individual observed on 05.10.13 in State Botanical Garden

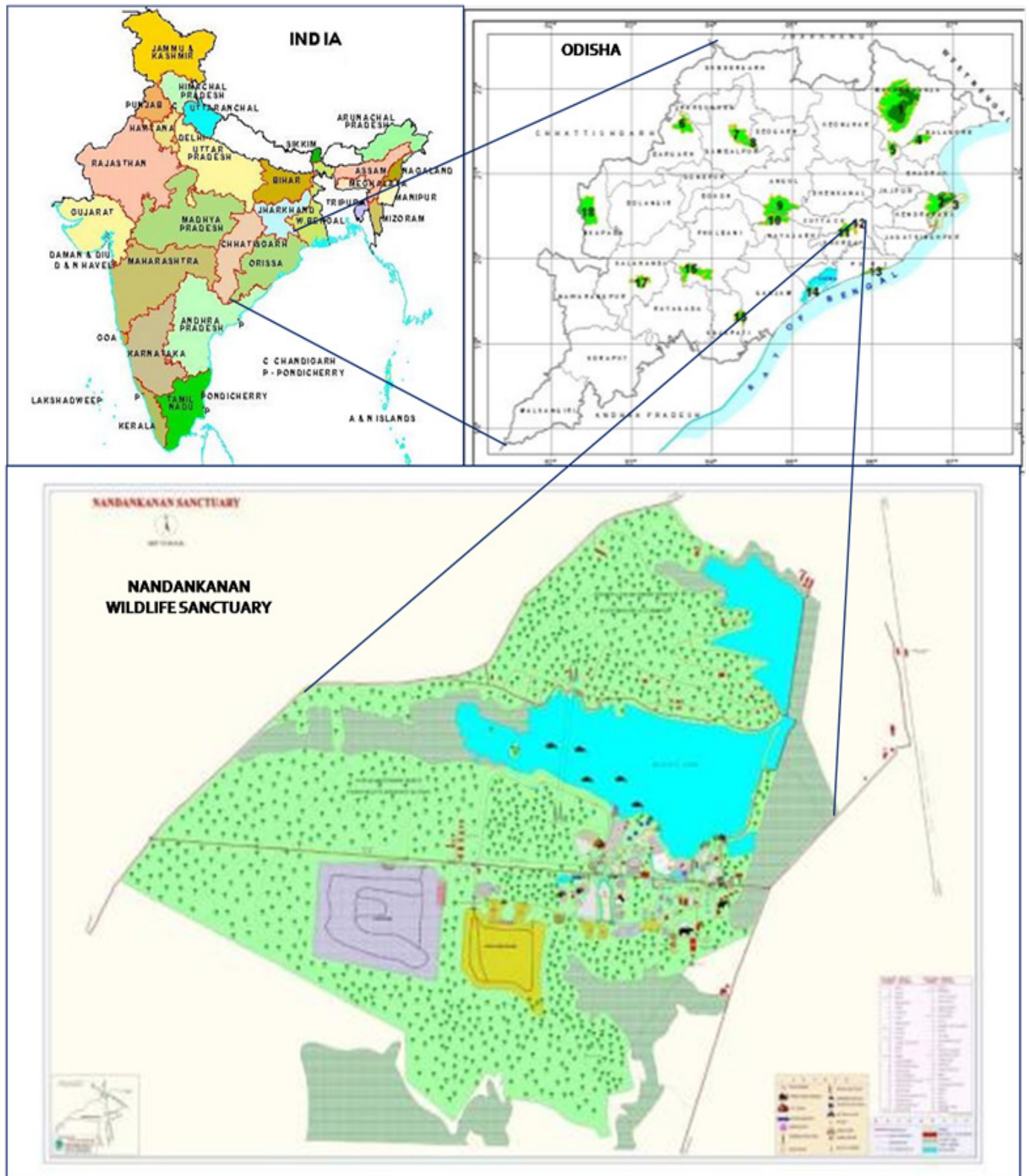


Figure 1 Nandankanan Wildlife Sanctuary, Odisha, India.

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Figure 2 Photographs of some species sighted (1-Asian brown flycatcher, 2-River tern, 3-Black capped kingfisher, 4-Blue throated blue flycatcher, 5-Brown hawk owl, 6-Clamorous reed warbler, 7-Common kristel, 8-Grey wagtail, 9-Lesser adjutant, 10-Lettle grebe, 11-Long tailed shrike, 12-Olive backed pipit, 13-Oriental honey buzzard, 14-Pied bushchat, 15-Plain prinia, 16-Red breasted flycatcher, 17- Red-rumped swallow, 18- Yellow-footed green pigeon, 19-Small minivet, 20-Baillon's crane, 21- Wire tailed swallow, 22-Black naped oriole, 23-Black winged kite, 24-Chestnut tailed starling, 25-Common sandpiper, 26-Grey bellied cuckoo, 27-Grey headed lapwing, 28-River lapwing, 29-Rosy starling, 30-Verdicter flycatcher, 31-Western marsh harrier, 32-White rumped shama, 33-Wood sandpiper, 34- Orange-breasted green pigeon, 35-Fulvous-breasted woodpecker, 36- Blue rock thrush).

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None.

Conflicts of interest

Author declares that there are no conflicts of interest.

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