

Birds of Narcondam Island, Andaman and Nicobar Islands with an Updated Checklist

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Abstract

The Andaman and Nicobar archipelago consists of 572 islands, Islets, and rocky outcrops with extending over 800 km. The studies on the avifauna of Narcondam Island carried out by the authors for a period of five months starting from January 2020 to May 2020. Total of 95 species belonging to 31 families and 11 orders were recorded during the period of study. Of these, 11 species are new records to Andaman and Nicobar Islands and thirty species new report to Narcondam Island.

Keywords: Andaman, Avifauna, Checklist Narcondam Island

Introduction

The Andaman and Nicobar archipelago consists of 572 islands, islets and rocky outcrops and extending over 800 km, and known for their rich biodiversity (Saldanha, 1989; Tikedar, 1984; Vijayan et al., 2000; Jayaraj and Andrews, 2005). These are truly oceanic islands, never having been connected to the mainland during Pleistocene glaciations (Ripley and Beehler, 1989). These islands were once a part of the Asian mainland but got detached some 100 million years ago during the Upper Mesozoic Period due to geological upheaval. The existing groups of islands constitute the physiographic continuation of the mountainous ranges of Naga and Lushai Hills and Arakan Yoma of Burma through Cape Negrais to the Andaman and Nicobar Islands and southeast of Sumatra. The chains of these islands are in fact the camel backs of the submerged mountain ranges projecting above the sea level running north to south between 6° 45' and 13° 30' N latitudes and 90° 20′ and 93° 56′ E longitudes with an extent of 8,249 km². The Andaman and Nicobar Islands can be broadly divided into two groups, namely, the Andamans and the Nicobars. The Andaman group has 324 islands, of which 25 are inhabited and the Nicobar group is made up of 28 islands, of which 13 are inhabited (Jayaraj and Andrews, These two groups are separated by the Tendegree Channel which is about 150 km wide 400 fathoms deep. Average annual temperature varies from 24° C to 28° C. The elevations range from 0 to 732 m at Saddle Peak in North Andaman and 642 m at Mount Thulier in Great Nicobar Island. The rainfall is slightly higher in Nicobar with an annual average of 3000 to 3500 mm. The Continental Shelf of these islands encompasses an area of 35,000 km² with an EEZ of 8149 km². The mean annual temperature of the Islands ranges from 24 to 28° C. Precipitation is slightly higher in the Nicobar Island group with an average annual rainfall of 3000 to 3500 mm. Zoo-geographically, Andaman and Nicobar Islands occupy a unique position close to the 'Indo-Malayan region', which is considered to be a 'faunistic centre' from which other subdivisions of the Indo-west Pacific Region recruited their fauna. The fauna of the archipelago is also distinct from that of the mainland India and exhibit strong bio-geographical affinities towards the Southeast Asian countries.

Andaman and Nicobar Islands constitute a globally important biodiversity hotspot. Due to isolation from the mainland, the endemism is very high in all taxa including avifauna (Rao *et al.*, 1980; Das, 1999a, 1999b and Andrews, 2001). This archipelago is one of the Endemic Bird Areas (EBA), nineteen sites were identified as Important Bird Areas (IBA), and thirty species are considered endemic to these islands (Stattersfield *et al.*, 1998). Ornithology



in the Andaman and Nicobar Islands has a long history and it was started by many British researchers during the middle of 19th century (Blyth, 1845, 1846a, 1846b, 1863 and 1866; Walden, 1866, 1873; Barbe, 1846; Flower, 1860; Tytler, 1864, 1867; Beavan, 1867; Tytler, 1867; Ball, 1870, 1872, 1873; Hume, 1873a,b, 1874a, 1874b, 1876; Prain, 1892; St. John, 1898; Butler, 1899a, 1899b, 1899c, 1900, Cory, 1902; Richmond, 1902; Wilson, 1904; Osmaston, 1905, 1906a,b,c, 1907, 1908, 1932, 1933, 2001; Wickham, 1910; Fleming, 1911; Whitehead, 1912; Oberholser, 1915, 1917, 1919; Ferrar, 1931; Stapylton, 1933, 1934a,b; Whistler, 1940; Gibson-Hill, 1949; Thothathri, 1962; Abdulali, 1964, 1965, 1967a,b, 1976, 1977, 1978a,b, 1979, 1981a,b; Voous, 1965; Thangam, 1966; Bailey *et al.*, 1968; Abdulali and Grubh, 1970).

More recently, many researchers have contributed to knowledge of the avifauna of Andaman and Nicobar Islands (Das, 1971; Mukherjee and Dasgupta, 1975; Dasgupta, 1976; Whitaker, 1976, 1985, 2000; Frith, 1978; Ali, 1980; Saha and Dasgupta, 1980; Bhaskar, 1981a,b; Altevogt and Davis, 1981; Mees, 1981; Mukherjee, 1981; Ali and Ripley, 1983, 1987; Hussain, 1977, 1984, 1991, 1992; Tikader, 1984; Saldanha, 1988, 1989; Balakrishnan, 1989; Ripley and Beehler, 1989; Steadman, 1991; Kazmierczak, 1991; Santharam, 1991,1996, 1997; Sebastian, 1991; Anon., 1992, 1996, 2004a,b,c, 2008; Sankaran, 1993, 1995a,b,c,d,e, 1997, 1998a,b,c,d,e, 2001, 2005; Sankaran and Vijayan, 1993; Vijayan, 1993,1996, 1999, 2006, 2007; Chandra and Rajan, 1994a,b; Chandra and Kumar, 1994; Prakash *et al.*, 1994; Saxena, 1994; Davidar *et al.*, 1995, 1996, 2001 and 2007; Prakash, 1995; Robertson, 1995; Wahal, 1995; Davidar, 1996; Davidar et al., 1996; Prashanth and Veenakumari, 1996; Unnithan, 1996; Vijayan, 1996, 2007; Thiollay, 1997; Grimmett et al., 1998; Rasmussen, 1998, 2000, 2005a,b,c; Stattersfield et al., 1998; Relton, 1999; Sankaran and Sivakumar, 1999; Gandhi, 2000; Sivakumar, 2000, 2003a,b, 2007; Yoqanand and Davidar, 2000; Vijayan et al., 2000; Vijayan et al., 2000, 2005; Vijayan and Sankaran, 2001; Dasgupta et al., 2002; Sivakumar and Sankaran, 2002, 2003, 2005a,b; Ali, 2003, 2007; IIRS, 2003; Kulkarni and Chandi, 2003; Vivek and Vijayan, 2003; Yahya and Zarri, 2002a,b; Islam and Rahmani, 2004; Rasmussen and Anderton, 2005; Ezhilarsi and Vijayan, 2006; Ashraf,

2006; Andrews *et al.*, 2006; Samaraweera, 2006; Pande *et al.*, 2007; Pande, 2007; Vijayan and Ezhilarasi, 2007; Sankaran and Manchi, 2008; Mamannan, and Vijayan, 2009; Manchi and Sankaran, 2009; Bhopale, 2010; Sivaperuman *et al.*, 2010, 2012; Sundaramoorthy, 2010; Pande *et al.*, 2011; Rajan and Pramod, 2011a,b,c, 2013; Manchi, 2013; Raman *et al.*, 2013; Gokulakrishnan *et al.*, 2014; Manchi and Kumar, 2014; Rajeshkumar *et al.*, 2014; Thompson, 2014; Zaibin *et al.*, 2014; Gokulakrishnan *et al.*, 2015; Gokulakrishnan and Sivaperuman, 2016; Praveen *et al.*, 2016; Sridharan *et al.*, 2017).

Among the 32 Asian hornbill species (Poonswad *et al.*, 2013), the Narcondam island is unique for the occurrence of the Narcondam Hornbill *Rhyticeros narcondami*, which is endemic to Andaman Islands (Ali and Ripley, 1987). The Narcondam Hornbill is considered an endangered species according to the IUCN red list threatened Species (IUCN, 2020). It is listed as a Schedule-I of the Indian Wildlife (Protection) Act, 1972.

Methods

Study area

The study was carried out at Narcondam Island Wildlife Sanctuary (6.8 km²), situated in the oceanic island of volcanic origin (13°30′N and 94°38′E), Northeast of the main Andaman group of islands in the Bay of Bengal, about 180 km west of the Burmese mainland, a small island rises abruptly from the sea. It is located about 240 km northeast of Port Blair in the South Andaman Islands, and about 125 km east of North Andaman. The nearest island is North Andaman, while Coco Island of Myanmar is about 96 km (Pal *et al.*, 2007; Raman *et al.*, 2013). The Narcondam Hornbill found only on this Island which was declared an Important Bird Area (Islam and Rahmani, 2004). Narcondam Island, rising to 706 M above msl (Pal *et al.*, 2007), is an island with the second highest peak.

Field surveys were conducted for a period of five months starting from January 2020 to May 2020 and observations were carried on a fixed path on average 1km radius at each station by using the line transect method (Gaston, 1973; *Burnham et al.*, 1980). The birds were observed during the peak



hours of their activity from 0530hr to 1030hr. Observations were also made during other times of the day as per convenience. Bird species were identified using field guides (Grimmett *et al.*, 1998; Robson, 2011; Rasmussen and Anderton, 2012). The common and scientific names of the birds given in the checklist followed by Rassmusen and Anderton (2005), the Order and Family followed by Bird Life International (2019).

Results and discussion

Avifaunal diversity in Narcondam Island

A total of 95 species belonging to 31 families and 11 orders were recorded during the period of study (Table 1). These include 11 new records to Andaman and Nicobar Islands and thirty species new report to Narcondam Island (Hume, 1873; Prain, 1892; Osmaston, 1905; Abdulali, 1971; Hussain, 1984; Abdulali, 1974; Sankaran & Vijayan, 1993; Pande, et al.2007; Raman et al., 2013; Rasmussen and Anderton, 2012). According to (IUCN, 2019), two species listed under Near Threatened (Nicobar Pigeon and Alexandrine Parakeet) and one species are

categorized as Endangered (Narcondam Hornbill). Of the recorded species, 18 were residents, seven were residents with local movement, nine were passage migrants, 55 were winter migrant and four were summer migrants (Table 1). The feeding guilds composition of birds in the study area showed highest in the insectivore and understory insectivores (21) in each category, followed by Aquatic land-dwelling feeder (15), Aquatic feeder (9), Canopy insectivores (7), Frugivores (6), Carnivorous (5), Aerial feeder (4), Piscivores (2), Aquatic aerial feeder (2), and each Frugivores with insectivore and Nectarivore—insectivore (1) (Table 1).

BirdLife International identified 218 endemic bird areas, of these nineteen are found in Andaman and Nicobar Islands (Birdlife International, 2000) and Narcondam Island is one of the Endemic Bird areas. Besides, the Narcondam Hornbill, ten endemic subspecies were recorded namely, Black Baza, Andaman Emerald Dove, Green-Imperial Pigeon, Alexandrine Parakeet, Asian Koel, Andaman Glossy Swiflet, Edible-nest Swiftlet, Hooded Pitta, Andaman Olive-backed Sunbird and Andaman Hill Myna.

Table 1. List of birds recorded from Narcondam Island

SI. No.	Common Name	Scientific Name	IUCN Status	Residential Status	Foraging Guild
	Pelecaniformes				
	Ardeidae				
1	Pacific Reef-Egret	Egretta sacra (Gmelin, 1766)	LC	R	AF
2	Grey Heron	Ardea cinerea Linnaeus, 1758	LC	PM	AF
3	Intermediate Egret	Ardea intermedia (Wagler,1829)	LC	PM	AF
4	Eastern Cattle Egret	Bubulcus coromandus (Boddaert, 1783)	LC	R/LM	AF
5	Chinese Pond-Heron	Ardeola bacchus (Bonaparte, 1855)	LC	WM	AF
6	Javan Pond-heron	Ardeola speciosa (Horsfield, 1821)	LC	WM	AF
7	Striated Heron	Butorides striata (Linnaeus, 1758)	LC	R/LM	AF
8	Malayan Night-Heron	<i>Goraschius melanolophus minor</i> Hachisuka, 1926	LC	R/LM	UI
9	Yellow Bittern	Ixobrychus sinensis (Gmelin,1789)	LC	WM	AF
10	Chestnut Bittern	Ixobrychus cinnamomeus (Gmelin,1789)	LC	R/LM	AF



SI. No.	Common Name	Scientific Name	IUCN Status	Residential Status	Foraging Guild
	Accipitriformes				
	Accipitridae				
11	Black Baza ^{ENS}	Aviceda leuphotes andamanica Abdulali, 1817	NE	R/LM	С
12	White-bellied Sea-Eagle	Haliaeetus leucogaster (Gmelin,1788)	LC	R	С
13	Japanese Sparrowhawk	Accipiter gularis (Temminck & Schlegel, 1845)	LC	WM	С
14	Common Buzzard	Buteo buteo (Linnaeus, 1758)	LC	WM	С
15	Grey-faced Buzzard	Butastur indicus (Gmelin, 1788)	LC	WM	С
16	Oriental Honey-Buzzard	Pernis ptilorhynchus (Temminck, 1821)	LC	PM	С
	Gruiformes				
	Rallidae				
17	White-breasted Waterhen	Amaurornis phoenicurus insularis Sharpe, 1894	LC	R	ALDF
18	Eastern Baillon's Crake	Zapornia pusilla (Pallas, 1776)	LC	WM	ALDF
19	Slaty-legged Crake	Rallina eurizonoides (Lafresnaye, 1845)	LC	R	ALDF
20	Slaty-breasted Rail	Lewinia striatus obscurior (Hume, 1874)	LC	R	ALDF
21	Watercock	Gallicrex cinerea (Gmelin, 1789)	LC	WM	ALDF
22	Ruddy-breasted Crake Charadriiformes	Porzana fusca (Linnaeus, 1766)	LC	R/LM	ALDF
23	Lesser Sand Plover	Charadrius mongolus Pallas,1776	LC	WM	ALDF
24	Greater Sand Plover	Charadrius leschenaultii Lesson, 1826	LC	WM	ALDF
25	Northern Lapwing	Vanellus vanellus (Linnaeus, 1758)	LC	PM	ALDF
	Scolopacidae				
26	Common Snipe	Gallinago gallinago (Linnaeus, 1758)	LC	WM	ALDF
27	Common Redshank	Tringa totanus (Linnaeus, 1758)	LC	WM	ALDF
28	Common Sandpiper	Actitis hypoleucos Linnaeus,1758	LC	WM	ALDF
29	Ruddy Turnstone	Arenaria interpres (Linnaeus, 1758)	LC	WM	ALDF
30	Sanderling	Ereunetes albus (Pallas, 1764)	LC	WM	ALDF
	Glareolidae				
31	Oriental Pratincole	<i>Glareola maldivarum</i> J.R. Forster, 1795	LC	WM	ALDF
	Laridae				
32	Black-naped Tern	Sterna sumatrana Raffles,1822	LC	R/LM	AAF
33	White-Winged Tern	Chlidonias leucopterus (Temminck, 1815)	LC	PM	AAF



SI.			IUCN	Residential	Foreging
31. No.	Common Name	Scientific Name	Status	Status	Foraging Guild
34	Columbiformes				
35	Columbidae				
36	Emerald Dove ^{ENS}	Chalcophaps indica maxima Hartert, 1931	LC	R	UI
37	Red Collared-Dove	Streptopelia tranquebarica (Hermann,1804)	LC	R	UI
38	Nicobar Pigeon	Caloenas nicobarica (Linnaeus, 1758)	NT	R	UI
39	Green-Imperial Pigeon ^{ENS}	<i>Ducula aenea andamanica</i> (Abdualali, 1964)	LC	R	F
40	Pied Imperial-Pigeon	Ducula bicolor (Scopoli, 1786)	LC	R	F
	Psittaciformes				
	Psittaculidae				
41	Alexandrine Parakeet ^{ENS}	Psittacula eupatria magnirostris (Ball, 1872)	NT	R	F
	Cuculiformes				
	Cuculidae				
42	Large Hawk-Cuckoo	<i>Hierococcyx sparverioides</i> (Vigors, 1832)	LC	WM	I
43	Chestnut-winged Crested Cuckoo	Clamator coromandus (Linnaeus, 1766)	LC	WM	I
44	Himalayan Cuckoo	Cuculus saturatus Blyth, 1843	LC	WM	1
45	Square-tailed Drongo Cuckoo	Surniculus lugubris (Horsefield, 1821)	LC	WM	I
46	Asian Koel ^{ENS}	Eudynamys scolopacea dolosus Ripley, 1946	LC	WM	F
	Caprimulgiformes				
	Caprimulgidae				
47	Grey Nightjar	Caprimulgus jotaka Temminck & Schlegel, 1844	LC	WM	I
	Apodidae				
48	Andaman Glossy Swiftlet ^{ENS}	<i>Collocalia esculenta affinis</i> Beavan 1867	LC	R	Af
49	Edible-nest Swiftlet ^{ENS}	Aerodramus fuciphagus inexpectatus Hume, 1873	LC	R	Af
	Coraciiformes				
	Alcedinidae				
50	Common Kingfisher	Alcedo atthis (Linnaeus, 1758)	LC	WM	Р
51	Black-capped Kingfisher	Halcyon pileata (Boddaert, 1783)	LC	WM	Р



SI. No.	Common Name	Scientific Name	IUCN Status	Residential Status	Foraging Guild
	Coraciidae				
52	Dollarbird	Eurystomus orientalis gigas Stesemann, 1913	LC	R	I
	Bucerotiformes				
	Bucerotidae				
53	Narcondam Hornbill ^E	Rhyticeros narcondami (Hume, 1873)	EN	R	F, I
	Passeriformes				
	Pittidae				
54	Hooded Pitta ^{ENS}	Pitta sordida abbotti Richmond, 1903	LC	R	UI
55	Blue-winged Pitta	Pitta moluccensis (Muller, 1776)	LC	SM	UI
	Hirundinidae				
56	Barn Swallow	Hirundo rustica Linnaeus,1758	LC	WM	Af
57	Red-rumped Swallow	Cecropis daurica Linnaeus, 1771	LC	WM	Af
	Motacillidae				
58	Forest Wagtail	Dendronanthus indicus (Gmelin,1789)	LC	WM	UI
59	White Wagtail	Motacilla leucopsis Gould, 1838	NE	WM	UI
60	EasternYellow Wagtail	<i>Motacilla tschutschensis</i> Linnaeus, 1758	LC	WM	UI
61	Grey Wagtail	Motacilla cinerea Tunstall, 1771	NE	WM	UI
62	Citrine Wagtail	Motacilla citreola Pallas, 1776	LC	WM	UI
63	Red-throated Pipit	Anthus cervinus (Pallas, 1811)	NE	WM	UI
64	Paddyfield Pipit	Anthus rufulus (Vieillot, 1818)	LC	WM	UI
	Campephagidae				
65	Ashy Minivet	Pericrocotus divaricatus (Raffles, 1822)	LC	WM	I
	Laniidae				
66	Philippine Shrike	<i>Lanius cristatus lucionensis</i> Linnaeus, 1766	LC	WM	I
	Turdidae				
67	Eyebrowed Thrush	Turdus obscurus Gmelin, 1789	LC	WM	UI
68	Orange-headed Thrush	Zoothera citrina (Latham, 1790)	LC	PM	UI
69	Scaly Thrush	Zoothera dauma (Latham, 1790)	LC	SM	UI
70	Siberian Thrush	Geokichla sibirica (Pallas, 1776)	LC	WM	UI
	Muscicapidae				
71	Siberian Blue Robin	Larvivora cyane (Pallas, 1776)	LC	WM	UI
72	Common Stonechat	Saxicola stejnegeri (Parrot, 1908)	LC	WM	1



SI. No.	Common Name	Scientific Name	IUCN Status	Residential Status	Foraging Guild
	Cisticolidae				
73	Eastern Thick-billed Warbler	Acrocephalus aedon (Pallas, 1776)	LC	WM	I
	Sylviidae				
74	Lanceolated Warbler	Locustella lanceolata (Temminck, 1840)	LC	WM	I
75	Black-browed Reed- Warbler	Acrocephalus bistrigiceps Swinhoe, 1860	LC	WM	I
	Phylloscopidae				
76	Dusky Warbler	Phylloscopus fuscatus (Blyth, 1842)	LC	WM	1
77	Yellow-browed Warbler	Phylloscopus inornatus (Blyth, 1842)	LC	WM	1
78	Arctic Leaf-Warbler	Phylloscopus borealis (Blasius, 1858)	LC	WM	1
79	Greenish Leaf-Warbler	Phylloscopus trochiloides (Sundevall, 1837)	LC	WM	I
80	Pale-legged Leaf- Warbler	Phylloscopus tenellipes Swinhoe, 1860	LC	WM	I
	Muscicapidae				
81	Asian Brown Flycatcher	Muscicapa latirostris (Raffles, 1822)	LC	WM	CI
82	Dark-sided Flycatcher	Muscicapa sibirica Gmelin, 1789	LC	PM	CI
83	Taiga Flycatcher	Ficedula albicilla (Pallas, 1811)	LC	WM	CI
84	Yellow-rumped Flycatcher	Ficedula zanthopygia (Hay, 1845)	LC	WM	CI
85	Blue-throated Flycatcher	Cyornis rubeculoides (Vigors, 1831)	LC	SM	CI
86	Ferruginous Flycatcher	<i>Muscicapa ferruginea</i> (Hodgson, 1845)	LC	SM	CI
	Monarchidae				
87	Amur Paradise- Flycatcher	Terpsiphone incei (Gould, 1852)	LC	WM	CI
	Passeridae				
88	Eurasian Tree Sparrow	Passer montanus (Linnaeus, 1758)	LC	PM	UI
	Nectariniidae				
89	Olive backed Sunbird ^{ENS}	Cinnyris jugularis andamanicus (Hume, 1873)	LC	R	N, I
	Emberizidae				
90	Little Bunting	Emberiza pusilla Pallas, 1776	LC	PM	UI
91	Black-faced Bunting	Emberiza spodocephala Pallas, 1776	LC	PM	UI



SI. No.	Common Name	Scientific Name	IUCN Status	Residential Status	Foraging Guild
	Sturnidae				
92	Andaman Hill Myna ^{ENS}	<i>Gracula religiosa andamanensis</i> (Beavan, 1867)	LC	R	F
93	Purple-backed Starling	Agropsar sturninus (Pallas, 1776)	LC	WM	1
	Oriolidae				
94	Slender-billed Oriole	Oriolus tenuirostris Blyth, 1846	LC	WM	F
	Dicruridae				
95	Black Drongo	Dicrurus macrocercus Vieillot, 1817	LC	WM	I
96	Ashy Drongo	<i>Dicrurus leucophaeus salangensis</i> Reichenow, 1890	LC	WM	1
97	Crow-billed Drongo	Dicrurus annectens (Hodgson, 1836)	LC	PM	1

Residential Status: R - Resident; R/LM - Resident with local movements; WM - Winter Migrant; PM - Passage migrant; SM - Summer migrant; Residential status followed by (Ali & Ripley, 1983; Rasmussen & Anderton, 2012; Sivaperuman *et al.* 2018).

IUCN Threatened status of the birds given in the checklist is as per IUCN Red List of Threatened Species (Birdlife International 2019).

Foraging: Aerial feeder (Af), Aquatic feeder (AF), Aquatic land-dwelling feeder (ALDF), Aquatic aerial feeder (AAF), Bark surface feeders (BSF), Canopy insectivores (CI), Carnivorous (C), Frugivores (F), Nectarivore - insectivore (NI), Omnivore (O), Piscivores (P), Insectivore (I), Understorey insectivores (UI) (Raman *et al.*, 1998).

E- Endemic; ENS - Endemic Subspecies

New record to the Narcondam Island

- **1. Grey Heron:** One single individual sighted on the way to light-house on 20th May 2020.
- 2. **Javan Pond-heron:** This heron was seen along the coast and also near the police barracks in the Month of May 2020. The bird was actively feeding in the water edge along with Chinese Pond-heron.
- **3. Striated Heron:** A few individuals were seen feeding over the coast near the landing point & western side of the coast in May 2020.
- **4. Malayan Night-Heron:** on 31st March 2020, one individual was sighted from main water source nallah and another individual from police barrack.
- 5. **Chestnut Bittern:** This was sighted in February-May 2020; a total of five individuals were seen near the police barrack.
- **6. Black Baza:** One individual was seen soaring over the western side forest area in the month of April.
- 7. **Japanese Sparrowhawk:** This bird was reported during February-April 2020 and only one individual was seen near the police barrack.

- **8. Oriental Honey-Buzzard:** One individual was recorded on 23rd May 2020 near the police barrack.
- **9. Eastern Baillon's Crake:** A single bird was sighted in February 2020 near the police barrack.
- **10. Slaty-breasted Rail:** One single individual was seen on the way to light-house on 7th May 2020.
- **11. Ruddy-breasted Crake:** Two individual was recorded in February-April 2020 near the police barrack.
- **12. Watercock:** Two individuals were sighted in February-April 2020 near the police barrack.
- **13. Sanderling:** One individual was seen at landing point, along the shoreline and it was reported during February-April 2020.
- **14. Red Collared-Dove:** The dove species was seen resting in a Police Barrack of on 20th March 2020.
- 15. Large Hawk-Cuckoo: This Cuckoo was sighted in three different locations on 31st March, 2020. This was resting in tree near police barrack, A second bird was sighted on 6th April 2020 near the



- main water source nallah and third individual was seen from the western side of the island.
- 16. Square-tailed Drongo Cuckoo: This Cuckoo was sighted at three different locations on 31st March 2020, it was spotted resting in tree near to the police barrack, second time was sighted on 6th April 2020 near the main water source nallah, the third individual was seen to the western side of the island.
- **17. Citrine Wagtail:** One individual was seen feeding on rocks along the coast of landing point & western side coastal areas on 27th April 2020.
- 18. Ashy Minivet: Two individuals were seen perched on tree and feeding over the canopy during March-April 2020. Again, this bird was observed for main water source nallah and another individual from police barrack.
- 19. Siberian Blue Robin: This robin male & female sighted sight at three different locations during February to May, 2020, such as near police barrack, main water source nallah and western side of the island.
- **20. Common Stonechat:** Male & female sighted on April to May, 2020 and this bird was resting in an herb near to the police barrack.
- **21. Lanceolated Warbler:** The bird was sighted on 31st March 31, 2020 and this was resting in a tree near to the police barrack.
- **22. Black-browed Reed-Warbler:** One individual was seen feeding over the herb near the landing point.
- **23. Daurian Starling:** Daurian Starling were observed on 19th February 2020 from the western side of the island.
- **24. Amur Paradise-Flycatcher:** During March-May 2020 observed from the main water source.
- **25. Blue-throated Flycatcher:** Two individual was sighted during February-April 2020 near to the main water source nallah.

- **26. Little Bunting:** This was seen near the police barracks on 30th March 2020; 18th May, 2020.
- **27. Purple-backed Starling:** Two individuals were seen perched on tree and feeding over the canopy on 31st March 2020.
- **28. Black Drongo:** This bird was sighted in three different locations on 31st March 2020, and this was resting in a tree near police barrack, on 6th April 2020 near the main water source nallah and third was seen to the western side of the island.
- 29. Ashy Drongo: This was sighted at three different locations on 31st March, 2020, one was resting in tree near police barrack, the second bird was sighted on 6th April 2020 near the main water source nallah and thirds was seen to the western side of in this island.
- **30. Crow-billed Drongo:** One single individual was seen on the way to light-house, on 07 May 2020.

New record to Andaman and Nicobar Islands

- 1. Common Buzzard: A flock of five individual were sighted near to the light-house, 700M elevation hill top (13°26.961' N; 94°15.880 E), near barrack (13°27.126'N; 94°16.546' E) during this January to April.
- Chestnut-winged Crested Cuckoo: Chestnut-2. winged Crested Cuckoo was sighted at three different locations on 31st March 2020 an adult bird was sighted near to the police barrack (13°27.126' N; 94°16.546′ E), and observed for about 10 minutes through binoculars for about 5 – 10 mts. The second bird was sighted on 6th April 2020 near the main water source nallah (13°26.5089'N; 94°16.1370' E), the third individual was seen to the western side of the island (13°27.656' N; 94°15.935' E). This bird species breeds in Himalayas (Grimmett et al., 2011) and migrate along the Eastern Ghats in its southward migration with exhausted individuals often being discovered in the vicinity of homes (Krishnan, 1954; Raju, 1979). During October, this was reported from Point Calimere, winter in the Western Ghats (Comber, 1901). According to



the available literature, this species has not been recorded from Andaman and Nicobar Islands (Grimmett *et al.*, 2011; Rasmussen and Anderton, 2012; Praveen *et al.*, 2018).

- 3. Scaly Thrush: On 8th April 2020 at 0600 hrs observed feeding grass on the ground near to the police barrack (13°27.126′N; 94°16.546′ E). The observed individua was olive brown upper body, whitish under body with heavy blackish scales, two buffy-white bands on underwings and white-tipped outer tail feathers and this was not reported from Andaman and Nicobar Islands (Grimmett *et al.* 2011; Rasmussen and Anderton, 2012; Robson, 2008).
- **4. Paddy-field Pipit:** On 11th March 2020 at 0600 hrs, observed resting on grass and open rocky near to the police barrack (13°27.126′N; 94°16.546′ E). The breast is streaked and the upperparts have variable amounts of streaking.
- 5. **Dark-sided Flycatcher:** One individual was seen resting in mango tree branch near to the police barrack (13°27.221′N; 94°16.411′E) on 27 April 2020.
- 6. Yellow-rumped Flycatcher: On 23 March 2020, we have sighted in three different locations and this was feeding caterpillar near to the police barrack (Lat: 13°27.221′N; Long: 94°16.411′E). A second bird was sighted on 16th April 2020 Light House (Lat: 13°27.607′ N; Long: 94°15.751 E). Third bird was sighted on 24th April 2020 near the main water source nallah (13°26.5089′N; 94°16.1370′ E).
- 7. Ferruginous Flycatcher: On 31st March 2020, bird was spotted and observed from the main water source nallah (13°26.5089'N; 94°16.1370' E). The bird was salty grey cast to head, pale eyeing, rufescent rump, upper tail coverts and tail, rusty rufous fringes on coverts tertials and rusty-buff breast and flanks.
- **8. Black-faced Bunting:** On 27th April 2020 one individual of Bunting was sighted near to the police barrack (Lat: 13°27.221′N; Long: 94°16.411′E).

- The bird was seen actively feeding grass seeds on the ground among other species such as Little Bunting.
- 9. Slender-billed Oriole: Slender-billed Oriole from the water source nallah on 27th March 2020 (13°26.5089'N; 94°16.1370' E). The bird is distinguished from the Black-naped Oriole on the basis of its long, slender, slightly curved bill and narrower nape band (Rasmussen and Anderton, 2012).
- 10. **Eurasian Tree Sparrow:** A total of 19 species of birds were introduced to the Andaman and Nicobar Islands from mainland India during the first half of the 19th Century (Lever 1987; Sankaran and Vijayan 1993), among them the Eurasian Tree Sparrow was introduced in the year of 1866. According to Rajan and Pramod (2013), there is no further recent reports of this species in Andaman Islands. On 12th February 2020 this bird was sighted near to the police barrack (Lat: 13°27.221'N; Long: 94°16.411'E) and observed regularly about ten days in the same location. The sighting of the Eurasian Tree Sparrow from this island after a gap of 154 years and it is new recent site record to Andaman and Nicobar Islands.
- 11. Orange-headed Thrush: Orange-headed Thrush is a medium-sized bird having 12 subspecies in South-east Asia (Clement et al., 2000) of which five subspecies are restricted to south Asia and two are endemic to Andaman and Nicobar Islands, Zoothera citrina andamanensis from Andaman, Zoothera citrina albogularis from Nicobar (Ali and Ripley, 1983; Rasmussen and Anderton, 2012). Zoothera citrina gibsonhilli was seen on 30th March 30, 2020, and this was drinking water at near police barrack. These birds are breeds in the southern Burma to southern Thailand, and winters further south at lower levels in the Thailand Peninsula, on islands in the Gulf of Thailand, Singapore and Malaysia.

Avifaunal studies in Narcondam Island have long history and this island received attention after the discovery of Narcondam Hornbill by Hume (1873). Of



the 62 species of hornbills found in the world, Narcondam Hornbill has the smallest global geographic range and found only on Narcondam. Prain (1892) carried out an investigation to explore the fauna and flora in Narcondam and Barren Islands, and reported eighteen species of birds, land snake, water monitor, skink, sea turtle and few invertebrates from this island. Cory (1902) made a short visit to study the Narcondam Hornbill. Osmaston (1905) has reported seventeen species of birds and few other vertebrates such as fruit bats, rats, water monitor lizard, skink and snake. First detailed study on feeding, breeding Narcondam Hornbill and population estimate of Narcondam Hornbill has been carried out by Sankaran (1998) who estimated about 330 to 360 individuals. Recently, Raman et al. (2013) made a rapid expedition to Narcondam Island and reported 17 species of fishes, two species of sea cucumber, 13 species of spiders, eight species of butterflies, eight species of reptiles, 28 species of birds and two species of mammals.

Our data increases the understanding of some of the rare and poorly known bird species from the Narcondam Island. This paper provides the updated checklist and information on the new records on the avifauna. The present findings stress the significance of periodical ornithological surveys in Narcondam Island for updating the avifaunal biodiversity not only for new records also but for better management and conservation. This fivemonth expedition to the Narcondam Island has yielded eleven new records to Andaman and Nicobar Island and three new report to Narcondam Island. The Narcondam Island is one of the remotest islands in the Andaman group, because of isolation and remoteness, they are also more likely to harbor high levels of endemic species. Only few expeditions have been carried out in Narcondam Islands by various group of scientists over the past 150 years and most of the team has stated only few hours and day, except Late Dr. Ravi Sankaran who has stayed about three months to study the breeding ecology of Narcondam Hornbill. The present expedition is the 14th since A. O. Hume's expedition of 1873 that resulted in the discovery of the Narcondam Hornbill. The Narcondam Island has a complex and varied geological history that has resulted in a diverse and highly endemic fauna. It is important to continue and updating the knowledge on the distribution of bird communities in Island ecosystem, which provides the building blocks for ongoing and future research. Contributions like the present reports provide a record of change in the status and distribution of the island avifauna.

Acknowledgments

We thank to the Dr. Kailash Chandra, Director, Zoological Survey of India, Kolkata for providing necessary support. We are grateful to the Department of Environment and Forests, Andaman and Nicobar Administration for giving the permission to conduct faunal survey. We thank to the Mr. D. M. Shukla, Principle Chief Conservator & Chief Wildlife Warden, Department of Environment and Forests, Inspector General Shri. M.V. Pathak, Indian Coast Guard for permission to travel by Indian Coast Guard Ship, Director General of Police Shri. Devendra Pathak, Andaman and Nicobar Police for permission to stay along with police personnel posted at Narcondam Island.

References

Abdulali, H. 1964. The birds of the Andaman and Nicobar Islands. *J. Bombay nat. Hist. Soc.* 63: 140-190.

Abdulali, H. 1965. The birds of Andaman and Nicobar Islands. *J. Bombay Hist. Soc.* 61: 483-571.

Abdulali, H. 1967a. More new races of the birds from the Andaman and Nicobar *J. Bombay nat. Hist. Soc.* 63: 420–422.

Abdulali, H. 1967b. The birds of Nicobar Islands. *J. Bombay nat. Hist. Soc.* 64: 139-190.

Abdulali, H. 1976. The fauna of Narcondam Island. *J. Bombay nat. Hist. Soc.* 71: 496–505.

Abdulali, H. 1977. New name of Andaman Blackheaded Oriole, *Oriolus xanthornus andamanensis* Abdulali. *J. Bombay nat. Hist. Soc.* 73 (2): 395.

Abdulali, H. 1978a. The fauna of Narcondam Island. Part 1. Birds. In: A Bundle of Feathers Proffered to Sálim Ali for his 75th Birthday in 1971. 151–160. Ripley, S. D., II (ed.) Delhi: Oxford University Press.

Abdulali, H. 1978b. The birds of Great and Car Nicobars with some notes on wildlife conservation in the Islands. *J. Bombay nat. Hist. Soc.* 75(3): 744–772.



- Abdulali, H. 1981a. The birds of Great and Car Nicobars with some notes on Wildlife conservation in the islands. *J. Bombay nat. Hist.Soc.* 75: 744–772.
- Abdulali, H. 1981b. Additional notes on Andaman birds. *J. Bombay nat. Hist. Soc.* 78: 46-49.
- Abdulali, H. & Grubh, R.B. 1970. A new race of the Blackcrested Baza, *Aviceda leuphotes* (Dumont), from the Andaman Islands. *J. Bombay nat. Hist. Soc.* 67 (2): 137–138.
- Abdulali, H. 1971. Narcondam Island and notes on some birds from the Andaman Islands. *J. Bombay Nat. Hist. Soc.* 68, 385–411.
- Ali, S. 1980. The Andamans. An 'Endangered Species'! Hornbill 1980 (1): 3, 8.
- Ali, R. 2003. Invasive species in Andamans. *Newsletter for Birdwatchers* 43 (4): 48–49.
- Ali, R. 2007. Issues relating to invasives in the Andaman Islands. *J. Bombay nat. Hist. Soc.* 103 (2&3): 349–355.
- Ali, S. & Ripley, S.D. 1983. Handbook of the birds of India and Pakistan. Compact edition. New Delhi: Oxford University Press.
- Ali, S. & Ripley, S.D. (1987) Compact handbook of the birds of India and Pakistan together with those of Bangladesh, Nepal, Bhutan and Sri Lanka. 2nd ed. Delhi: Oxford University Press.
- Altevogt, R. & Davis, T.A. 1981. Nocturnal activity of the Turnstone (*Arenaria interpres*) on South Sentinel (Andaman Islands). *J. Bombay nat. Hist. Soc.* 77 (3): 508–510.
- Andrews, H.V. 2001. Threatened herpetofauna of the Andaman and Nicobar Islands. Pp 39-47. In: An over view of the threatened herpetofauna of South Asia, (Eds.) Bambaradeniya CN, Samarasekara VN, IUCN Sri Lanka and Asia Regional Biodiversity Programme, Colombo, Sri Lanka.
- Andrews, H.V. Jayaraj, R.S.C, & Mundoli, S. 2006. State of environment 2005, Andaman and Nicobar Islands. Hyderabad, India: Universities Press (India) Pvt. Ltd.
- Anon. 1992. Nicobar Megapode. *WPA News* 37 (August): 33.

- Anon. 1996. Barn Owl in Andaman & Nicobar Islands. *Pitta* 67 & 68: 2
- Anon. 2004a. Avifaunal diversity of the Andaman Islands and their conservation. In: Annual Report 2003–2004. 4–5. Coimbatore: Salim Ali Centre for Ornithology and Natural History.
- Anon. 2004b. In-situ & ex-situ conservation of the Ediblenest Swiftlet *Collocalia fuciphaga* in the Andaman & Nicobar Islands. In: Annual Report 2003–2004. 12. Coimbatore: Salim Ali Centre for Ornithology and Natural History.
- Anon. 2004c. Status and ecology of the Andaman Crake. In: Annual Report 2003–2004. 5 6. Coimbatore: Salim Ali Centre for Ornithology and Natural History.
- Anon. 2008. Conservation of the Edible-nest Swiftlet Collocalia fuciphaga in the Andaman and Nicobar Islands. Pp. 31. Project Report. Coimbatore, India: Salim Ali Centre for Ornithology & Natural History; Forest Department of Andaman and Nicobar Islands.
- Anon. 1989. Handbook on Andamans district. Andaman and Nicobar Administration, State Statistical Bureau, Govt. Press, Port Blair.
- Ashraf, M.A. 2006. Island biogeography the forest birds of the Andaman Islands as a case study. *Tigerpaper* 1 (30–32)
- Bailey, R.S., Pocklington, R. and Willis, P.R. 1968. Stormpetrels *Oceanodroma* spp. in the Indian Ocean. *Ibis* 110: 27–34.
- Balakrishnan, N.P. 1989. Andaman Islands vegetation and floristics. pp. 55-61. In C. J. Saldanha (Ed). Andaman, Nicobar and Lakshadweep an environment impact assessment. New Delhi: Oxford University Press.
- Ball, V. 1870. Notes on birds observed in the neighborhood of Port Blair, Andaman Islands, during month of August 1864. *J. Asiatic Soc. Bengal* 39: 240–243.
- Ball, V. 1872. Notes on a collection of birds made in Andaman Islands by Asst. Surgeon, G. E. Dobson M. B., during months of April and May. *J. Asiatic Soc. Bengal* 41: 273-290.
- Ball, V. 1873. List of birds known to occur in the Andaman and Nicobar Islands. *Stray Feathers* I (2, 3&4): 51–90.



- Barbe, P. 1846. Notice of the Nicobar Islands. *J. Asiatic Soc. Bengal* XV (Part I No 173 New Series No 89): 344–367.
- Beavan, R.C. 1867. The avifauna of the Andaman Islands. Ibis 3(3): 314–334.
- Bhaskar, S. 1981a. Travels in the Andamans & Nicobars. *Hornbill* 1981 (2): 14–22.
- Bhaskar, S. 1981b. Travels in the Andamans and Nicobars. *Hamadryad* 6: 2–8.
- Bhopale, N. 2010. Additions to the avifauna of the Indian Subcontinent "White-faced" Plover *Charadrius dealbatus* from Andaman and Nicobar Islands, India. *J. Bombay nat. Hist. Soc., 1*07: (1) 60–61.
- BirdLife International 2000. Threatened birds of the world. 1st edition, Stattersfield, A. J., Capper, D. R., Dutson, G. C. L., Evans, M. I., McClellan, R. K., Peet, N. B., Shutes, S. M., Stuart, T. E. H., Tobias, J. A. & Wege, D. C. (eds.). Cambridge, UK: Lynx Edicions & BirdLife International.
- BirdLife International 2019. Handbook of the Birds of the World and BirdLife International digital checklist of the birds of the world. Version 4. Available at: http://datazone.birdlife.org/userfiles/file/Species/Taxonomy / HBW-BirdLife_Checklist_v4_Dec19. zip.
- Blyth, E. 1845. Notices and descriptions of various new and little-known species of birds. *J. Asiatic Soc. Bengal*, 14: 546–602.
- Blyth, E. 1846a. Notices and descriptions of various new and little-known species of birds. *J. Asiatic Soc. Bengal*, 15: 1–54.
- Blyth, E. 1846b. Notes on the fauna of the Nicobar Islands. On collections by Mr. Barbe and Capt. Lewis. *J. Asiatic Soc. Bengal.* 15: 367–379.
- Blyth, E. 1863. Zoology of Andaman Islands. Appendix (pp 345–367 with Tytler's notes) to Mouat (1863). *J. Asiatic Soc. Bengal* 32: 85–89.
- Blyth, E. 1866. Abstracts from letters from Capt. Blair. *Ibis* (2): 220–221.
- Burnham, M.P., Anderson D.R. & Laake, J.L. 1980. Estimation of density from line transect sampling of

- biological populations. *Wildl. Monogr.* No. 72. 202 pp.
- Butler, A.L. 1899a. The birds of the Andaman and Nicobar Islands. Part I. *J. Bombay nat. Hist. Soc.* XII (2): 386–403.
- Butler, A.L. 1899b. The birds of the Andaman and Nicobar Islands. Part II. *J. Bombay nat. Hist. Soc.* XII (3): 555–571.
- Butler, A.L. 1899c. The birds of the Andaman and Nicobar Islands. Part III. *J. Bombay nat. Hist. Soc.* XII (4): 684–696.
- Butler, A.L. 1900. The birds of the Andaman and Nicobar Islands. Part IV. *J. Bombay nat. Hist. Soc.* XIII (1): 144–154.
- Chandra, K. & Kumar, S. 1994a. Observations on avifauna of Great Nicobar Islands, India. *Indian Forester* 120(10): 953–955.
- Chandra, K. & Rajan, P.T. 1994b. Observations on the avifauna of Mount Harriet National Park, South Andaman (A&N Islands). *Indian Forester* 122(10): 965–968.
- Clement, P., Hathway, R., & Wilczur, J. 2000. Thrushes (Helm Identification Guides). Christopher Helm Publishers Ltd. pp. 229–232.
- Clements, J.F., Schulenberg, T.S., Iliff, M.J., Roberson, D., Fredericks, T.A., Sullivan, B.L. and Wood, C.L. 2016. The eBird/Clements checklist of birds of the world: v2016. Downloaded from http://www.birds.cornell.edu/clementschecklist/download/
- Comber, E. 1901. On the occurrence of *Coccystes coromandus* (The Red-winged Crested Cuckoo) in Bombay. *J. Bombay Nat. Hist. Soc.* 13(4): 696.
- Cory, C.P. 1902. Some further notes on the Narcondam Hornbill (*Rhytidoceros narcondami*). J. Bombay Nat. Hist. Soc. XIV (2): 372.
- Das, P.K. 1971. New records of birds from the Andaman and Nicobar Islands. *J. Bombay nat. Hist. Soc.* 68: 459-461.
- Das, I. 1999a. Biogeography of the amphibians and reptiles of the Andaman and Nicobar Islands, India. pp 43-75. In: Ota, H. (Ed.), Proceeding of the International Symposium on diversity of reptiles,



- amphibians and other terrestrial animals on tropical islands: Origin, current status and conservation. June 1998, University of Ryukyus, Okinawa, Japan.
- Das, I. 1999b. Noteworthy collection of mammals from Mount Harriet, Andaman Island, India. *J. South Asian Nat. Hist.*, 4(2): 181-185.
- Dasgupta, J.M. 1976. Records of birds from the Andaman and Nicobar Islands. *J. Bombay nat. Hist. Soc.*73: 222–223.
- Dasgupta, J.M., Roy, S.B. and Datta, B.K. 2002. Endemic birds of India. *Rec. Zool. Surv. India. Occ. Paper* No. 200: 1–44.
- Davidar, P. 1996. Conservation priorities for the Andaman Islands. *J. Bombay nat. Hist. Soc.* 93 (3): 555–558.
- Davidar, P., Devi, S.M., Yoganand, T.R.K. & Ganesh, T. 1995. Reserve size and implications for the conservation of biodiversity in the Andaman Islands. In: Boyle, TJB., & Boontawee, B., (eds.) Measuring and monitoring biodiversity in tropical and temperate forests. Indonesia: CIFOR.
- Davidar, P., Yoganand, T.R.K., Ganesh, T. & Joshi, N. 1996. An assessment of common and rare forest bird species of the Andaman Islands. *Forktail*. 12: 135– 142.
- Davidar, P., Yoganand, T.R.K. & Ganesh, T. 2001.
 Distribution of forest Davidar, P., T. R. K. Yoganand,
 T. Ganesh and N. Joshi. 1996. An assessment of common and rare forest bird species of the Andaman Islands. *Forktail* 12(1): 135-142.
- Davidar, P., Yoganand, T.R.K., Ganesh, T. & Geetha-Nayak, K. 2007. Avifauna of Andaman Islands: Preliminary inventory and distributional patterns. *J. Bombay nat. Hist. Soc.* 104(3): 35-47.
- DeSante, D.F. 1990. The role of recruitment in the dynamics of a Sierran subalpine bird communities. *American Natura*list 132: 429-445pp.
- Ezhilarasi, N. & Vijayan, L. 2006. Birds of Chidiyatapu Biological Park, South Andaman. *Zoo's Print Journal* 21(12): 2517-2518.
- Ferrar, M.L. 1931. Bird migration notes from Port Blair. *J. Bombay nat. Hist. Soc.* XXXV (2): 448–450.

- Fleming, J.H. 1911. A new teal from the Andaman Islands. *Proc. Biol. Soc. Washington* 24: 215–216.
- Flower, W.H. 1860. On the structure of the gizzard of the Nicobar Pigeon, and other granivorous birds. *Proc. of the Zool. Soc. London.* 1860: 330–334.
- Frith, C.B. 1978. Short-tailed Shearwaters Puffinus tenuirostris in the Andaman Sea area, Indian Ocean. *Emu* 78: 95–97.
- FSI, (Forest Survey of India) 2019. Indian State Forest Report 2019. Forest Survey of India, Dehradun Published by Ministry of Environment & Forests, Dehra Dun.
- Gandhi, T. 2000. Prioritising sites for conservation in the Andaman and Nicobar Islands: With special reference to Fauna, pp. 82-93. In: Setting Biodiversity Conservation Priorities for India. Ed: Singh, S., Sastry, A.R.K. Mehta, R. and Uppal, V. WWF- India, New Delhi, India. Pp. xxvii + 707.
- Gaston, A.J. 1973. Methods for estimating bird population. *Journal of the Bombay Natural History Society*. 72(2): 272-281.
- Gibson-Hill, C.A. 1949. An immature Redtailed Bo'sun-Bird. *Bull. Raffles Museum*, 19: 100–104.
- Gokulakrishnan, G. & Sivaperuman, C. 2016. Abundance, Distribution and Migration Chronology of Shorebirds of Andaman Islands. In: Proceedings of the International Conference on Climate change adaptation and biodiversity: Ecological sustainability and resource management for livelihood security (ICCB-2016), 8 10 December 2016. Pp. 150-163.
- Gokulakrishnan, G., Dinesh, J. & Sivaperuman, C. 2014. Diversity and distribution of Shorebirds (Charadriiformes) in south Andaman. *J. Andaman Sci. Assoc.* 19(2):185-190.
- Gokulakrishnan, G., Sivaperuman, C., Jaisankar, I., Velmurugan, A. & Dinesh, J. 2015. Species Abundance and Distributions of Bird Communities in Agroecosystems, South Andaman. *J. Andaman Sci. Assoc.* 20(2):151-163.
- Gokulakrishnan, G., Sivaperuman, C., Rasmussen, P.C. & Parthipan, P. 2017. New distributional records of six bird species to Andaman and Nicobar Islands, India. BirdingAsia (In Press).



- Grimmett, R., Inskipp, C. & Inskipp, T. 1998. Birds of the Indian subcontinent. Delhi: Oxford University Press.
- Grimmett, R., Inskipp, C. & Inskipp, T. 2011. Pocket Guide to the Birds of the Indian Subcontinent. Christopher Helm, London, 384 p.
- Hume, A.O. 1873. Novelties: *Rhyticeros narcondami. Stray Feathers* 1, 411–412.
- Hume, A.O. 1873a. Additional remarks on the avifauna of the Andamans. Stray Feathers I (2,3&4): 304–310.
- Hume, A.O. 1873b. Notes. Avifauna of the Islands of the Bay of Bengal. *Stray Feathers* 5: 421–423.
- Hume, A.O. 1876. Additional notes on the avifauna of the Andaman Islands. *Stray Feathers* 4(4–6): 279–294.
- Hussain, S.A. 1977. Narcondam Island of the hornbills. Hornbill Inaugural: 26–30.
- Hussain, S.A. 1984. Some aspects of the biology and ecology of Narcondam Hornbill (*Rhyticeros narcondami*). *J. Bombay nat. Hist. Soc.* 81(1): 1–18.
- Hussain, S.A. 1991. Some urgent considerations for the conservation of Narcondam Island. *Newsletter for Birdwatchers* 31(5-6): 6.
- Hussain, S.A. 1992. An action plan for rehabilitating Narcondam Hornbill. *Zoos' Print* VI (1): 1–2.
- Hussain, S.A. 1993. The biology and ecology of the Narcondam Hornbill. *Hornbill* 1993 (4): 27–29.
- IIRS 2003. Biodiversity characterization at landscape level in Andaman and Nicobar Islands using satellite remote sensing and geographic information system. Dehradun, India: Department of biotechnology, Government of India and Department of Space, Government of India.
- Islam, Z. & Rahmani, A.R. 2004. Important Bird Areas in India. Priority sites for conservation. 1st ed. Mumbai: Indian Bird Conservation Network: Bombay Natural History Society and BirdLife International (UK).
- IUCN, 2020. The IUCN Red List of Threatened Species. Version 2020-2. https://www.iucnredlist.org. Downloaded on 09 July 2020.
- Jayaraj, R.S.C. & Andrews, H.V. 2005. Andaman & Nicobar Islands Union Territory biodiversity strategy and action plan, 142 pp. India: Prepared under the National Biodiversity Strategy and Action Plan- India,

- ANET/ GOI-UNDP/A &N D E & F. Universities Press.
- Kazmierczak, K. 1991. Andaman update. *O. B. C. Bull.* 13 (July): 35.
- Krishnan, S.M. 1954. Occurrence of Red winged Crested Cuckoo (*Clamator coromandus*) in Madras. *J. Bombay Nat. Hist. Soc.* 52 (1): 210.
- Kulkarni, S. and Chandi, M. 2003. Note on breeding of Andaman Teal Anas gibberifrons in South Andaman Islands, India. *J. Bombay nat. Hist. Soc.* 100 (1): 112–113.
- Lever, C. 1987. *Naturalized birds of the world.* Harlow: Longman Scientific & Technical. pp. i–xx, 1–615.
- Manchi, S.S. 2013. Records of the Andaman Barn-owl *Tyto deroepstorfii* in North, and Middle Andaman Islands. *Indian Birds* 8 (3): 66–67.
- Mamannan, M.A.R. & Vijayan, L. 2009. Three new bird records from the Andaman Islands, India. *Forktail* 25: 154–155.
- Mees, G.F. 1981. The Sparrow-Hawks (Accipiter) of the Andaman Islands. *J. Bombay nat. Hist. Soc.* 77 (3): 371–412 (1980).
- Mukherjee, A.K. 1981. Status of the Andaman Teal *Anas gibberifrons albogularis* (Hume). *Proc. Wildlife Workshop*: 121–122.
- Mukherjee, A.K. & Dasgupta, J.M. 1975. Taxonomic status of the Nicobar Emerald Dove, *Chalcophaps augusta* Bonaparte, 1850 (Aves: Columbidae) *Proc. Zool. Soc. Calcutta*, 28: 133–135.
- Oberholser, H. 1915. A review of the subspecies of the Ruddy Kingfisher *Entomothera coromanda* (Linnaeus). *Proc. United States Nat. Mus.*, 48 (2090): 639–657.
- Oberholser, H. 1917. The birds of the Anamba Islands. Bull. United States Nat. Mus., 98: 1–75.
- Oberholser, H. 1919. The races of the Nicobar Megapode *Megapodius nicobariensis* Blyth. *Proc. United States Nat. Mus.* 55 (2278): 399–402.
- Osmaston, B.B. 1905. A visit to Narcondam. *J. Bombay nat. Hist. Soc.* 16: 620–622.
- Osmaston, B.B. 1906a. Notes on Andaman birds with accounts of the nidification of several species whose



- nests and eggs have not been hitherto described. *J. Bombay nat. Hist. Soc.* XVII (1): 156–163.
- Osmaston, B.B. 1906b. Mangroves and Paroquets. *J. Bombay nat. Hist. Soc.* XVII (1): 240.
- Osmaston, B.B. 1906c. Notes on Andaman birds, with accounts of the nidification of several species whose nests and eggs have not been hitherto described. Part II. *J. Bombay nat. Hist. Soc.*XVII (2): 486–491.
- Osmaston, B.B. 1907. A visit to South Sentinel Island. *J. Bombay nat. Hist. Soc.* XVIII (1): 201–202.
- Osmaston, B.B. 1908. A visit to Barren Island, Andaman. *J. Bombay nat. Hist. Soc.* 18: 357–359.
- Osmaston, B.B. 1932. Some Andaman birds. *J. Bombay nat. Hist. Soc.* 35 (4): 891–893.
- Osmaston, B.B. 1933. Some Andaman birds. *J. Bombay nat. Hist. Soc.*, 35: 891–893.
- Osmaston, B.B. 2001. Birds in the Andamans (extracts from the diaries of B.B. Osmaston). *Newsletter for Birdwatchers* 41 (3): 34–35.
- Pal, T., Mitra, S. K., Sengupta, S., Katari, A., Bandopadhyay, P.C. and Bhattachrya, A. K. 2007. Dacite-andesites of Narcondam volcano in the Andaman Sea: An imprint of magma mixing in the inner arc of the the Andaman-Java subduction system. *Journal of Volcanology and Geothermal Research* 168: 93-113.
- Pande, S. 2007. ELA Foundation's Third Endemic and Pelagic Bird Survey (8th to 20th January, 2007), Andaman and Nicobar Islands in the Bay of Bengal conducted by ELA Foundation, Pune & Ecological Society, Pune with assistance from Indian Coast Guard. Unpublished report submitted to Director General Coast Guard, New Delhi.
- Pande, S., Sant, N. & Pednekar, S. 2011. Avifaunal survey of South- and Middle-Andaman Islands, November 2009. *Indian Birds* 7 (4): 104–106.
- Pande, S., Sant, N. Ranade, S., Pednekar, S., Mestry, P., Deshpande, P., Kharat, S. & Deshmukh, V. 2007. Avifaunal survey of Andaman and Nicobar Islands, January 2007. *Indian Birds* 3 (5): 162–180.
- Poonswad, P., Kemp, A., & Strange, M. 2013. Hornbills of the world: a photographic guide. Singapore: Draco Publishing & Distribution Pte. Ltd. Pp. 1–212.

- Prain, D. 1892. Remarks on the fauna of Narcondam and Barren Island. *Proc. Asiatic Soc. Bengal* 1892: 109–121.
- Prakash, V. 1995. Conservation of the Narcondam Hornbill. In: Avian Conservation in India. 44–45.
- Prakash, V., Prakash, N.V. & Clark, W.S. 1994. Oriental Honeybuzzard *Pernis ptilorhynchus*: a new species for the Andaman Islands. Forktail 9: 157–158.
- Prashanth, M. & Veenakumari, K. 1996. Perspectives on the zoogeography of the Andaman and Nicobar Islands, India. *Malayan Nature J.* 50: 99–106.
- Praveen, J., Jayapal, R. & Pitie, A. 2016. A checklist of the birds of India. *Indian Birds* 11 (5&6): 113 172.
- Praveen, J., Jayapal, R. & Pitie, A. 2018. Taxonomic updates to the checklist of birds of India and the South Asian region—2018. Indian BIRDS. 14.
- Rajan, P. & Pramod, P. 2011a. First records of European Roller *Coracias garrulus* from the Andaman Islands, India. *BirdingAsia* 16 (2011): 106–107.
- Rajan, P. & Pramod, P. 2011b. Common birds of Andaman Islands with special emphasis to introduced birds. In: Status of Indian birds and their conservation: First Interna-tional Conference on Indian Ornithology (ICIO) 2011. Bhupathy, S., Prusty, B. A. K., Kumara, H.N., Jayaraj, R.S.C., Quadros, G., & Pramod, P., (Eds.). Coimbatore, India: Salim Ali Centre for Ornithology and Natural History: Pp. 262–264.
- Rajan, P. & Pramod, P. 2013. Introduced birds of the Andaman & Nicobar Islands, India. *Indian Birds* 8 (3): 71-72
- Rajeshkumar, S., Raghunathan, C. & Maheswaran, G. 2014. Blue-and-white Flycatcher *Cyanoptila cyanomelana*: First record for Andaman & Nicobar Islands, India. *Indian Birds*, 9 (4): 104–105.
- Raju, K.S.R.K. 1979. Occurrence of Red winged Crested Cuckoo *Clamator coromandus* in Vishakhapatnam. *Newsletter for Birdwatchers*. 19 (12): 11.
- Raman, T.S.R., Mudappa, D., Khan, T., Mistry, U., Saxena, A., Varma, K., Ekka, N., Lenin, J., & Whitaker, R. 2013. An expedition to Narcondam: observations of marine and terrestrial fauna including the islandendemic hornbill. *Current Science*, Vol. 105, No. 3 346



- Rao, N.V.S., Das, A.K. & Mitra, S.C. 1980. On freshwater mollusks of Andaman and Nicobar Islands. *Rec. Zool. Surv. India* 77: 215-246.
- Rasmussen, P.C. 1998 A new Scops Owl from Great Nicobar Island. *Bull. B.O.C.* 118 (3): 141–153.
- Rasmussen, P.C. 2000. On the status of the Nicobar Sparrowhawk *Accipiter butleri* on Great Nicobar Island, India. *Forktail* 16: 185–186.
- Rasmussen, P.C. 2005a. On producing Birds of South Asia. *IndianBirds* 1 (3): 50–56.
- Rasmussen, P.C. 2005b. Biogeographic and conservation implications of revised species limits and distributions of South Asian birds. Zoologische Mededelingen, Leiden 79-3 (13): 137–146.
- Rasmussen, P.C. 2005c. On producing Birds of South Asia. *IndianBirds* 1 (3): 50–56.
- Rasmussen, P.C. & Anderton, J.C. 2005. Birds of South Asia. The Ripley Guide. Volumes 1 & 2. Washington, D.C. and Barcelona: Smithsonian Institution and Lynx Edicions. 1061 p.
- Rasmussen, P.C. & Anderton, J.C. 2012. Birds of South Asia: the Ripley guide. 2nd ed. Washington, D.C. and Barcelona: Smithsonian Institution and Lynx Editions. 2 Vols. pp. 1–378; 1-683.
- Relton, A. 1999. Birding in the Andamans (Abstract). *Newsletter for Birdwatchers* 38 (6): 102.
- Richmond, C.W. 1902. Birds collected by Dr. W. L. Abbot and Mr. C. B. Kloss in the Andaman and Nicobar Islands. *Proc. U. S. Nat.Mus.*, 25: 287–314.
- Ripley, S.D. & Beehler, B.M. 1989. Ornithographic affinities of the Andaman and Nicobar Islands. *J. Biogeogr.*, 16(4): 323-332.
- Robertson, A.L.H. 1995. Occurrence of some Pelagic Seabirds (Procellariiformes) in waters off the Indian subcontinent. *Forktail*, 10: 129–140 (1994).
- Robson, C. 2008. Birds of South-east Asia. New Holland Publishers, UK.
- Robson, C. 2011. Field Guide to the Birds of South-East Asia Paperback. New Holland Australia(AU); 3rd Revised edition. 544 p.
- Saha, S.S. & Dasgupta, J.M. 1980. The Malayan Serpent Eagle *Spilornis cheela malayensis* (Swann) in the

- Great Nicobar Island, an addition to the Indian avifauna. *Rec. Zool. Surv. India* 77: 89–91.
- Saldanha, C.J. 1988. A select bibliography on the Andaman and Nicobar Islands for an environmental impact assessment. Bangalore, India: Centre for taxonomic studies, St. Joseph's College.
- Saldanha, C.J. 1989. Andaman, Nicobar & Lakshadweep: an environmental impact assessment. New Delhi: Oxford University Press & IBH Publ. Co.
- Samaraweera, P. 2006. Oriental Plover Charadrius veredus: second record in Sri Lanka, third in South Asia. *Ceylon Bird Club Notes* 2006 (November): 148–151.
- Sankaran, R. 1993. The status and conservation of the Nicobar Scrubfowl *Megapodius nicobariensis*. Coimbatore: SACON.
- Sankaran, R. 1995a. The distribution, status and conservation of the Nicobar Megapode Megapodius nicobariensis. Biological Conservation 72(1): 17–26.
- Sankaran, R. 1995b. Distribution, status and conservation of the Nicobar Megapode. In: Avian Conservation in India. 43–44. 43–44. Vijayan, L. (ed.) Coimbatore: SACON.
- Sankaran, R. 1995c. Impact assessment of nest collection on the Edible-nest Swiftlet (*Collocalia fuciphaga*) in the Nicobar Islands. Occasional report. Coimbatore: Sálim Ali Centre for Ornithology & Natural History.
- Sankaran, R. 1995d. The decline of the Edible-nest Swiftlet in the Nicobar Islands. *OBC. Bull.*, 22: 51–54.
- Sankaran, R. 1995e. The Nicobar Megapode and Other Endemic Avifauna of the Nicobar Islands. Status and Conservation. Coimbatore: Sálim Ali Centre for Ornithology and Natural History.
- Sankaran, R. 1997. Developing a protected area network in the Nicobar Islands: the perspective of the endemic avifauna. *Biodiversity and Conservation*, 6 (3): 797–815.
- Sankaran, R. 1998. The Narcondam Hornbill Conservation Measures. A Preliminary Report.
- Sankaran, R. 1998a. An annotated list of the endemic avifauna of the Nicobar Islands. *Forktail* 13 (February): 17–22.



- Sankaran, R. 1998b. The impact of nest collection on the Edible-nest Swiftlet (*Collocalia fuciphaga*) in the Andaman and Nicobar Islands. Report to IUCN. Coimbatore: Sálim Ali Centre for Ornithology and Natural History.
- Sankaran, R. 1998c. The status and conservation of the Narcondam Hornbill (Abstract). National seminar on wildlife conservation, Research and Management. Wildlife Institute of India, Dehra Dun.
- Sankaran, R. 1998d. The Narcondam Hornbill Conservation Measures. A Preliminary Report.
- Sankaran, R. 1998e. Clear Felling of Primary Rain Forest at the Lighthouse at Indira Point, Great Nicobar Island Ameliorative Measures.
- Sankaran, R. 2001. The status and conservation of the Edible-nest Swiftlet (*Collocalia fuciphaga*) in the Andaman and Nicobar Islands. *Biological Conservation* 97: 283–294.
- Sankaran, R. 2005. Impact of the earthquake and the tsunami on the Nicobar Islands. Pp. 10–77. In: Kaul, R., & Menon, V., (Eds). The ground beneath the waves: post-tsunami impact assessment of wildlife and their habitats in India. Vol 2. New Delhi: Wildlife Trust of India.
- Sankaran, R. & Manchi, S. 2008. In-situ and ex-situ conservation of the Edible–nest Swiftlet *Collocalia fuciphaga* in the Andaman & Nicobar Islands. 18–19. Annual Report 2007–08. Coimbatore: SACON.
- Sankaran, R. & Sivakumar, K. 1999. Preliminary results of ongoing study of the Nicobar Megapode *Megapodius nicobariensis* Blyth. *Zoologiszhe Verhandelingen, Leiden,* 327: 75–90.
- Sankaran, R. & Vijayan, L. 1993. The avifauna of the Andaman and Nicobar Islands: A review and the current scenario. Pp. 255–271. In: Verghese, A., S. Sridhar and A.K. Chakravarthy (Eds): Bird Conservation: Strategies for the Nineties and Beyond. Ornithological Society of India, Bangalore.
- Santharam, V. 1991. Barn Owls as biological control agents in the Andamans. *Newsletter for Birdwatchers*, 31 (5-6): 9.
- Santharam, V. 1996. Birdwatching in the South Andamans. *Newsletter for Birdwatchers*, 35 (6): 104–105.

- Santharam, V. 1997. Birdwatching in the South Andamans. Part- II. *Blackbuck* 11 (4): 87–97.
- Saxena, A. 1994. Sighting of Christmas Island Frigate Bird (*Fregata andrewsi*) Mathews in the Andamans, *J. Bombay Nat. Hist. Soc.* 91 (1): 138.
- Sebastian, A.C. 1991. The barn Owl man's silent ghostly friend. *Newsletter for Birdwatchers* 31 (5-6): 9–10.
- Sivakumar, K. 2000. A study on breeding biology of the Nicobar Megapode *Megapodius nicobariensis*. Ph.D, Thesis, Bharathiyar University Tamil Nadu.
- Sivakumar, K. 2003a. Megapode: A fascinating bird of Nicobar Islands. *Mistnet* 4 (1): 6.
- Sivakumar, K. 2003b. Some observations on the breeding biology of birds on Great Nicobar Island, India. *Forktail* 19: 130–131.
- Sivakumar, K. 2007. Impact of tsunami on the Nicobar Megapode. Dehra Dun: Wildlife Institute of India.
- Sivakumar, K. & Sankaran, R. 2002. New records of birds from the Andaman and Nicobar Islands. *Forktail* 18(1): 149-150.
- Sivakumar, K. & Sankaran, R. 2003. The incubation mound and hatching success of the Nicobar Megapode *Megapodius nicobariensis* Blyth. Tamil Nadu, 100 (2&3): 375–387.
- Sivakumar, K. & Sankaran, R. 2005a. Natural history notes on chicks of the Nicobar Megapode *Megapodius nicobariensis*. Tamil Nadu, 101 (3): 452–452 (2004).
- Sivakumar, K. & Sankaran, R. 2005b. The diet of the Nicobar Megapode *Megapodius nicobariensis*, in Great Nicobar Island. Tamil Nadu, 102 (1): 105–106.
- Sivaperuman, C., Venkatraman, C., & Raghunathan, C. 2010. Avifauna of Andaman and Nicobar Islands: An Overview. pp. 399-412. In: Recent Trends in Biodiversity of Andaman and Nicobar Islands. Ramakrishna, Raghunathan, C and Sivaperuman, C. (Eds.). Zoological Survey of India, Kolkata.
- Sivaperuman, C., Shah, S.K., Rajan, P.T. & Venkataraman, K. 2012. New record of Common Coot *Fulica atra* 1758 from Andaman and Nicobar Islands. *Tamil Nadu*, 103: 199-200.
- Sridharan, B., Mohanty, N.P., Anujan, K. & Nelaballli, S. 2017. Violet Cuckoo *Chrysococcyx xanthorhynchus* in the Andaman Islands. *Indian Birds*, 13 (2): 46–50.



- St. John, J.H. 1898. Some notes on the Narcondam Hornbill, etc. (Rhytidoceros narcondami). *J. Bombay Nat. Hist. Soc.* XII (1): 212–214.
- St. John, J.H. 1898. Some notes on Narcondam Hornbill etc. *J. Bombay Nat. Hist*. Soc. 12: 212–214.
- Stapylton, J.M. 1933. Early arrival of Snipe in the Andamans. *J. Bombay Nat. Hist.* 36 (2): 507–508.
- Stapylton, J.M. 1934b. Migration and decrease of Snipe in the Andamans. *J. Bombay Nat. Hist. Soc.*, XXXVII (2): 491–492.
- Stapylton, J.M. 1934a. Early arrival of Snipe in the Andamans. *J. Bombay Nat. Hist. Soc.*, XXXVII (1): 224.
- Stattersfield, A.J., Crosby, M.J., Long, A.J. & Wege, D.C. 1998. Endemic bird areas of the world. Cambridge: BirdLife International.
- Steadman, D.W. 1991. The identity and taxonomic status of Megapodius stairi and M. burnabyi (Aves: Megapodiidae). *Proc. Biol. Soc. Washington* 104: 870–877.
- Sundaramoorthy, T. 2010. Bird diversity of Andaman and Nicobar Islands. *Eco News* 16(1): 3-8.
- Thangam, E.S. 1966. Introduction of some birds in Andaman & Nicobar Islands during 1960-1965. *Indian Forester* 92: 441–446.
- Thiollay, J.M. 1997. Distribution and abundance patterns of bird community and raptor populations in the Andaman archipelago. *Ecography*, 20: 67–82.
- Thompson, S. 2014. Website: http://ebird.org/ebird/view/checklist/S24463247. [Accessed on: 03 December, 2014]
- Thothathri, K. 1962. Contributions to the flora of the Andaman and Nicobar Islands. *Bull. Bot. Surv. India*, 4: 281-296.
- Tikader, B.K. 1984. Birds of Andaman & Nicobar Islands. Calcutta: Zoological Survey of India.
- Tytler, R.C. 1864. Description of a new species of Paradoxurus from the Andaman Islands. J. Asiatic Soc. Bengal, XXXIII (Part II Series No 294 No II): 188
- Tytler, R.C. 1867. The avifauna of the Andaman Islands. *Ibis* (2) 3: 314–334.

- Unnithan, S. 1996. Variations in Olivebacked Sunbirds *Nectarinia jugularis* (Linnaeus) of Andaman, Car, Central and Great Nicobar Island. *J. Bombay Nat. Hist. Soc*, 93 (2): 297–298.
- Vijayan, L. 1993. Status and conservation of some rare endemic avifauna of the Andaman Islands a preliminary survey. Coimbatore: Salim Ali Centre for Ornithology & Natural History. Unpublished report.
- Vijayan, L. 1996. Status and conservation of the Andaman Teal *Anas gibberifrons albogularis*. Gibier Faune Sauvage, *Game Wildl.*, 13 (1): 831–842.
- Vijayan, L. 1999. Endemic birds of the Andaman Nicobar Islands and their conservation. Pp 20–30. In: Prabhakaran, J., (Ed.) Environmental education needs of the Andaman & Nicobar Islands. Proceedings of the conference held at Port Blair on March 5 & 6, 1997. Chennai: C P R Environmental Education Centre
- Vijayan, L. 2006. Ecology and conservation of the Andaman Teal. *J. Bombay Nat. Hist. Soc.* 103 (2–3): 231–238.
- Vijayan, L. 2007. Ecology and conservation of the Andaman Teal. *J. Bombay Nat. Hist. Soc.*, 103 (2&3): 231–238 (2006).
- Vijayan, L. & Ezhilarasi, N. 2007. Status and ecology of the Andaman Crake. 100 pp. Final report of the project. Coimbatore: SACON.
- Vijayan, L., Sankaran, R., Sivakumar, K. & Murugan, V. 2000. A study on the ecology, status and conservation perspectives of certain rare endemic avifauna of the Andaman & Nicobar Islands: Final Report. Salim Ali Centre.
- Vijayan, L., Prasad, S.N., Mamannan, M.A.R., Kaushik, P. & Giriraj, A. 2005. Avifaunal diversity of the Andaman Islands and their conservation. 84 pp. Final report. Coimbatore: SACON.
- Vivek, R. & Vijayan, V.S. 2003. Ecology and conservation of the Narcondam Hornbill (Aceros narcondami) at Narcondam Island Sanctuary, India. Interim Report, Sálim Ali Centre for Ornitho- logy and Natural History, Coimbatore.



- Voous, K.H. 1965. Notes on sea-birds 14. White-faced Storm Petrels in the Indian Ocean: correction and additions. Ardea, 53: 237.
- Wahal, A.K. 1995. Birds of the Andaman and Nicobar Islands and issues related to their conservation. In: Avian Conservation in India. 55–56.
- Walden, A. 1866. Notes on birds collected in Tenasserim and in Andaman Islands. *Proc. Zool. Soc. London* 1866: 537–556.
- Walden, A. 1873. On a collection of birds from the Andaman Islands. *Ibis* (3) 3: 296–321.
- Whistler, H. 1940. The Andaman Large Cuckoo-Shrike. *Ibis* 4 (4): 731.
- Whitaker, R. 1976. Birding in the Andamans. *Newsletter for Birdwatchers* 16 (10): 3–5.
- Whitaker, R. 1985. Endangered Andamans. New Delhi: Environmental Services Group, WWF–India, and MAB India, Department of Environment.
- Whitaker, R. 2000. Saving the Andamans. *Sanctuary Asia* XX (1): 22–26.

- Whitehead, J.H. 1912. Woodcock *Scolopax rusticula* in South Andamans. *J. Bombay Nat. Hist. Soc.* XXI (3): 1085.
- Wickham, P.F. 1910. A note on the nesting of the Besra Sparrow Hawk (*Accipiter virgatus*) and the Andaman Nightjar (*Caprimulgus andamanicus*) in the Andamans. *J. Bombay Nat.Hist. Soc.* XIX (4): 992–993.
- Wilson, N.F. 1904. The Oceanic, or Andaman Teal (*Nettium albigulare*). *J. Bombay Nat. Hist. Soc.* XV (3): 525–526.
- Yahya, H.S.A., & Zarri, A.A. 2002a. White Tern (*Gygis alba*) sighted at Narcondam Island, Bay of Bengal, India. *Forktail*, 18: 148–149.
- Yahya, H.S.A., & Zarri, A.A. 2002b. Status, ecology and behaviour of Narcondam Hornbill in Narcondam Island, Andaman & Nicobar Island, India. *J. Bombay nat. Hist. Soc.*, 99 (3): 434–445.
- Zaibin, A.P., Sant, N., Krys, K. & Pramod, P. 2014. Grey-faced Buzzard *Butastur indicus* from Kamorta Island, Nicobar Islands, India: First photographic documentation. *Indian Birds*, 9 (4): 102–103.

Received: 14th February 2020 Accepted: 4th May 2020