

AVIFAUNA OF MADHYA PRADESH AND CHHATTISGARH

K. Chandra and R.K. Singh

Central Regional Station, Zoological Survey of India, Jabalpur, Madhya Pradesh 482002, India

web supplement

ABSTRACT

The paper presents a comprehensive account of the avifauna of Madhya Pradesh and Chhattisgarh. It includes the annotated list of birds recorded so far from these two states and provides information on district-wise localities (in the web supplement). In all, 517 species/subspecies of birds belonging to 69 families are reported from Chhattisgarh (197 taxa) and Madhya Pradesh (488 taxa).

KEYWORDS

Birds, checklist, Chhattisgarh, Madhya Pradesh

Madhya Pradesh occupies the very heartland of India. Presently, the State (21°-25°N & 74°-84°E) is divided into Madhya Pradesh and Chhattisgarh. These states together form the unit of central India. Geologically, the Central Indian Plateau is a part of the Gondwana Plate. The rocks of the area are amongst the oldest in the world, dating back to pre-Cambrian and Palaeozoic period. The important hill ranges of these states are the Aravalli, Vindhya, Satpura, Sinhwa and Bastar. The low-lying parts are in Mahanadi Valley in the northeast and in the narrow Narmada Valley in the central and southern portions. Five major rivers -- Narmada, Tapti, Mahanadi, Chambal and Indravati flow from the highlands of central India, which feeds the rivers of north, east, south and west. The total area of these two states is 4,43,446km², which covers 13.5% of the total area of India.

The climate of these two states is tropical. The location and physiographic conditions greatly influence the climatic characteristics of the states. Since, the states are away from sea, the fluctuation in temperature is quite high. The various mountain ranges and plateau surfaces have a mild effect on the temperature conditions. The low-lying valleys of Chambal, Mahanadi and Narmada are hot, dry and uncomfortable in summer, while the plateau of Malwa and the places of Satpura-Maikal ranges are relatively pleasant in summers. December and January are the coldest months and mean minimum temperature is 10°C and ranges from 7°C in the northwest to 14°C in the south. The total rainfall in the area varies from 700mm in the northwestern parts to 160mm in the southern parts. Maximum precipitation is received during the southwest monsoon. Relative humidity of these states is affected by various factors. A high percentage of humidity is generally observed during rainy season and low humidity during summer i.e. from March to May. The highest percentage of relative humidity varies from 85% to 95% and the lowest from 20% to 30%, depending upon various natural regions.

The recorded forest area of Madhya Pradesh is 30.9% of the total geographical area, while in Chhattisgarh it is 43.9%. The forests in these two states are well distributed over all the agro-climatic zones. The forest types found in the area are classified

as sub-tropical hill forests, moist deciduous forests, tropical dry deciduous forests and thorn forests. As per the observation based on satellite imagery, the forest cover by different forest types in these two states reveals that tropical moist deciduous forest accounts for 50.09% followed by 49.77% tropical dry deciduous forests and 0.14% tropical thorn forests. From 1956 to 1994 the forest area decreased at the rate of 473km² per year mainly due to conversion of forests into agricultural areas, encroachments and river valley projects.

Birds were studied in different regions of central India mostly before independence, so far no comprehensive work is available neither on Madhya Pradesh nor Chhattisgarh. In this view, the Zoological Survey of India undertook the task to present the current status of avifauna of Madhya Pradesh as well as Chhattisgarh.

The earliest paper on avifauna pertaining to central India is by King (1911) who listed 155 species of resident birds in Saugar and Damoh. Osmaston (1922a) studied 135 species of birds from Pachmarhi. Baker (1922, 1924, 1926, 1927, 1928, 1929, 1930a,b) in the *Fauna of British India* included 58 species of birds from Madhya Pradesh. In 1927, Bates also contributed his "Impressions of Pachmarhi Birds". D'Abreu (1931) also reported birds found in central India. He followed the work and listed 430 species of birds from central provinces, which also covers adjacent states. Ali (1939, 1940) published a list of 278 species from central India in two parts, based on the collections made in Dhar, Indore, Gwalior and Bhopal. Hewetson (1939) contributed a paper on birds of Betul District and in 1956, "Bird Life of Madhya Pradesh" was published, which included the list of 308 species. Roonwal (1942) collected birds from Hoshangabad and 88 skin collections were made, which resulted in the identification of 47 species. Wright (1942) contributed the list of 193 species of birds seen in Berar during one year. Ali and Ripley (1968, 1969a, b, 1970, 1971, 1972a,b, 1973a,b, 1974) in his ten volumes on *Handbook of the Birds of India and Pakistan* included the species so far recorded from Madhya Pradesh. Majumdar (1984) studied the collection from Bastar District. The birds of Kanha Tiger Reserve were observed by Newton *et al.* (1986) and Ghosal (1995) also listed the Birds of Kanha Tiger Reserve, wherein 231 species were included. Rahmani (1991) studied birds of Karera Bustard Sanctuary and 258 species were reported. Saha (1995) also contributed the paper on birds of Indravati Tiger Reserve and studied 92 species. Sharma (1995) reported 222 species of birds from Madhav National Park, Shivpuri.

Other sporadic commendable contributions include the works of Barnes (1887), Maries (1897), D'Abreu (1912, 1913, 1914), Pitman (1913a, b, c), Hide (1919), Osmaston (1922b, 1923), Deeks (1935), Hewetson (1944, 1954), Amladi (1973), Davis (1974),

Table 1. Inventory of avifauna from Madhya Pradesh and Chhattisgarh

Scientific name	Scientific name	Scientific name
Podicipedidae	<i>Rhodonessa caryophyllacea</i> (Latham) -- MP	<i>Perdicula asiatica asiatica</i> (Latham) -- MP
<i>Podiceps cristatus</i> (Linnaeus) -- MP	<i>Rhodonessa rufina</i> (Pallas) -- MP	<i>Perdicula erythrorhyncha blewitti</i> (Hume) -- MP, C
<i>Podiceps nigricollis</i> Brehm -- MP	<i>Sarkidiornis melanotos melanotos</i> (Pennant) -- MP	Turnicidae
<i>Tachybaptus ruficollis capensis</i> Salvadori -- MP, C	<i>Tadorna ferruginea</i> (Pallas) -- MP	<i>Turnix suscitator taigoor</i> (Sykes) -- MP, C
Hydrobatidae	<i>Tadorna tadorna</i> (Linnaeus) -- MP	<i>Turnix sylvatica dussumier</i> (Temminck) -- MP
<i>Fregatta tropica melanogaster</i> (Gould) -- MP	Accipitridae	<i>Turnix tanki tanki</i> Blyth -- MP
Pelecanidae	<i>Accipiter badius dussumieri</i> (Temminck) -- MP	Gruidae
<i>Pelecanus onocrotalus</i> Linnaeus -- MP	<i>Accipiter trivirgatus indicus</i> (Hodgson) -- MP, C	<i>Grus antigone antigone</i> (Linnaeus) -- MP, C
<i>Pelecanus philippensis</i> Gmelin -- MP	<i>Accipiter virgatus besra</i> Jerdon -- MP	<i>Grus grus lifordi</i> Sharpe -- MP
Phalacrocoracidae	<i>Aegyptius monachus</i> (Linnaeus) -- MP	<i>Grus leucogeranus</i> Pallas -- MP
<i>Phalacrocorax carbo sinensis</i> (Shaw) -- MP	<i>Aquila clanga</i> Pallas -- MP	<i>Grus virgo</i> (Linnaeus) -- MP
<i>Phalacrocorax fuscicollis</i> Stephens -- MP	<i>Aquila nipalensis nipalensis</i> (Hodgson) -- MP, C	Rallidae
<i>Phalacrocorax niger</i> (Vieillot) -- MP, C	<i>Aquila pomarina hastata</i> (Lesson) -- MP	<i>Amaurornis akool akool</i> (Sykes) -- MP
Anhingidae	<i>Aquila rapax vindhiana</i> Franklin -- MP	<i>Amaurornis phoenicurus chinensis</i> (Boddaert) -- MP
<i>Anhinga rufa melanogaster</i> Pennant -- MP	<i>Aviceda jerdoni</i> (Blyth) -- C	<i>Fulica atra atra</i> Linnaeus -- MP, C
Ardeidae	<i>Aviceda leuphotes</i> (Dumont) -- C	<i>Gallinula chloropus indica</i> Blyth -- MP, C
<i>Ardea cinerea rectirostris</i> Gould -- MP	<i>Butastur teesa</i> (Franklin) -- MP	<i>Gallirallus striatus albiventer</i> Swainson -- MP
<i>Ardea goliath</i> Cretzschmar -- MP	<i>Circus aeruginosus aeruginosus</i> (Linnaeus) -- MP	<i>Porphyrio porphyrio</i> (Linnaeus) -- MP
<i>Ardea purpurea manilensis</i> Meyen -- MP	<i>Circus cyaneus</i> (Linnaeus) -- MP	<i>Porzana pusilla pusilla</i> (Pallas) -- MP
<i>Ardeola grayii grayii</i> (Sykes) -- MP	<i>Circus macrourus</i> (S.G. Gmelin) -- MP	<i>Rallus aquaticus karejewi</i> Zarudny -- MP
<i>Botaurus stellaris stellaris</i> (Linnaeus) -- MP	<i>Circus melanoleucos</i> (Pennant) -- MP, C	Otididae
<i>Bubulcus ibis coromandus</i> (Boddaert) -- MP, C	<i>Circus pygargus</i> (Linnaeus) -- MP	<i>Ardeotis nigriceps</i> (Vigors) -- MP, C
<i>Butorides striatus chloriceps</i> (Bonaparte) -- MP	<i>Circus caerules vociferus</i> (Latham) -- MP, C	<i>Sypheotides indica</i> (J.F. Miller) -- MP
<i>Casmerodius albus</i> (Linnaeus) -- MP, C	<i>Gyps bengalensis</i> (Gmelin) -- MP	Jacaniidae
<i>Egretta garzetta garzetta</i> (Linnaeus) -- MP, C	<i>Gyps fulvus fulvescens</i> Hume -- MP	<i>Hydrophasianus chirurgus</i> (Scopoli) -- MP, C
<i>Mesophoyx intermedia intermedia</i> (Wagler) -- MP	<i>Gyps indicus indicus</i> (Scopoli) -- MP, C	<i>Metopidius indicus</i> (Latham) -- MP, C
<i>Nycticorax nycticorax</i> (Linnaeus) -- MP	<i>Haliaeetus leucoryphus</i> (Pallas) -- MP	Rostratulidae
Ciconiidae	<i>Haliaeetus fasciatus fasciatus</i> (Vieillot) -- MP	<i>Rostratula benghalensis benghalensis</i> (Linnaeus) -- MP
<i>Anastomus oscitans</i> (Boddaert) -- MP, C	<i>Hieraaetus fasciatus ssp.</i> -- MP	Charadriidae
<i>Ciconia ciconia ciconia</i> (Linnaeus) -- MP	<i>Ichthyophaga nana plumbea</i> (Jerdon) -- MP	<i>Charadrius alexandrinus</i> Linnaeus -- MP
<i>Ciconia episcopus episcopus</i> (Boddaert) -- MP	<i>Ictinaetus malayensis penniger</i> (Hodgson) -- MP, C	<i>Charadrius dubius curonicus</i> Gmelin -- MP
<i>Ciconia nigra</i> (Linnaeus) -- MP	<i>Milvus migrans govinda</i> Sykes -- MP, C	<i>Charadrius dubius jerdoni</i> (Legge) -- MP
<i>Ephippiorhynchus asiaticus asiaticus</i> (Latham) -- MP	<i>Neophron percnopterus ginginianus</i> (Latham) -- MP	<i>Charadrius mongolus</i> Pallas -- MP
<i>Leptoptilos dubius</i> (Gmelin) -- MP	<i>Pernis ptilorhynchus ruficollis</i> Lesson -- MP	<i>Pluvialis dominica</i> (Muller) -- MP
<i>Leptoptilos javanicus</i> (Horsfield) -- MP	<i>Spizaetus nipalensis nipalensis</i> (Hodgson) -- MP	<i>Pluvialis squatarola</i> (Linnaeus) -- MP
<i>Mycteria leucocephala</i> (Pennant) -- MP	<i>Spizaetus cirrhatous cirrhatous</i> (Horsfield) -- MP	<i>Vanellus cinereus</i> (Blyth) -- MP
Threskiornithidae	<i>Spizaetus cirrhatous cirrhatous</i> (Gmelin) -- MP	<i>Vanellus indicus indicus</i> (Boddaert) -- MP, C
<i>Platalea leucorodia major</i> Temminck & Schlegel -- MP	<i>Sarcogyps calvus</i> (Scopoli) -- MP	<i>Vanellus leucurus</i> (Lichtenstein) -- MP
<i>Plegadis falcinellus falcinellus</i> (Linnaeus) -- MP	<i>Spilornis cheela cheela</i> (Latham) -- MP, C	<i>Vanellus malabaricus</i> (Boddaert) -- MP, C
<i>Pseudibis papillosa papillosa</i> (Temminck) -- MP, C	Pandionidae	<i>Vanellus spinosus duvaucelii</i> (Lesson) -- MP
<i>Threskiornis melanocephala</i> (Latham) -- MP	<i>Pandion haliaetus haliaetus</i> (Linnaeus) -- MP	<i>Vanellus vanellus</i> (Linnaeus) -- MP
Phoenicopteridae	Falconidae	Scolopaciidae
<i>Phoenicopiterus minor</i> Geoffroy -- MP	<i>Falco biarmicus jugger</i> J.E. Gray -- MP	<i>Actitis hypoleucos</i> Linnaeus -- MP
<i>Phoenicopiterus ruber</i> Linnaeus -- MP	<i>Falco chicquera chicquera</i> Daudin -- MP	<i>Calidris alpinus</i> (Linnaeus) -- MP
Anatidae	<i>Falco naumanni pekinensis</i> Swinhoe -- MP	<i>Calidris minutus</i> (Leiser) -- MP
<i>Anas acuta</i> Linnaeus -- MP, C	<i>Falco peregrinus babilonicus</i> P.L. Sclater -- C	<i>Calidris temminckii</i> (Leisler) -- MP
<i>Anas clypeata</i> Linnaeus -- MP, C	<i>Falco peregrinus peregrinator</i> Sundevall -- MP	<i>Gallinago gallinago</i> (Linnaeus) -- MP, C
<i>Anas crecca crecca</i> Linnaeus -- MP	<i>Falco peregrinus ssp.</i> -- MP	<i>Gallinago nemorcola</i> (Hodgson) -- MP, C
<i>Anas penelope</i> Linnaeus -- MP	<i>Falco subbuteo subbuteo</i> Linnaeus -- MP	<i>Gallinago stenura</i> (Bonaparte) -- MP
<i>Anas platyrhynchos</i> Linnaeus -- MP	<i>Falco tinnunculus tinnunculus</i> Linnaeus -- MP	<i>Limosa limosa</i> (Linnaeus) -- MP
<i>Anas poecilorhyncha poecilorhyncha</i> J.R. Forster -- MP	Phasianidae	<i>Lymnocyrtus minimus</i> (Brunnich) -- MP
<i>Anas querquedula</i> Linnaeus -- MP	<i>Francolinus francolinus asiae</i> Bonaparte -- MP	<i>Numenius arquata arvensis</i> C.L. Brehm -- MP
<i>Anas strepera strepera</i> Linnaeus -- MP	<i>Francolinus pictus</i> (Jerdine & Selby) -- MP, C	<i>Numenius phaeopus phaeopus</i> (Linnaeus) -- MP
<i>Anser anser rubirostris</i> Swinhoe -- MP	<i>Francolinus pondicerianus interpositus</i> Hartert -- MP	<i>Philomachus pugnax</i> (Linnaeus) -- MP
<i>Anser indicus</i> (Latham) -- MP, C	<i>Francolinus pondicerianus pondicerianus</i> (Gmelin) -- MP, C	<i>Tringa erythropus</i> (Pallas) -- MP
<i>Aythya baeri</i> (Radde) -- MP	<i>Coturnix chinensis chinensis</i> (Linnaeus) -- MP	<i>Tringa glareola</i> Linnaeus -- MP
<i>Aythya ferina</i> (Linnaeus) -- MP	<i>Coturnix coromandelica</i> (Gmelin) -- MP	<i>Tringa nebularia</i> (Gunnerus) -- MP
<i>Aythya fuligula</i> (Linnaeus) -- MP	<i>Coturnix coturnix coturnix</i> (Linnaeus) -- MP	<i>Tringa ochropus</i> Linnaeus -- MP, C
<i>Aythya marila</i> (Linnaeus) -- MP	<i>Galloperdix lunulata</i> (Valenciennes) -- MP, C	<i>Tringa stagnatilis</i> (Bechstein) -- MP
<i>Branta ruficollis</i> (Pallas) -- MP	<i>Galloperdix spadicea caurina</i> Blanford -- MP	<i>Tringa totanus totanus</i> (Linnaeus) -- MP
<i>Dendrocygna javanica</i> (Horsfield) -- MP, C	<i>Galloperdix spadicea spadicea</i> (Gmelin) -- MP	<i>Xenus cinereus</i> (Guldenstadt, 1774) -- MP
<i>Marmaronetta angustirostris</i> Menetries -- MP	<i>Gallus gallus</i> (Linnaeus) -- MP, C	Recurvirostridae
<i>Merganser merganser</i> Linnaeus -- C	<i>Gallus gallus murghi</i> Robinson & Kloss -- MP, C	<i>Himantopus himantopus himantopus</i> (Linnaeus) -- MP
<i>Nettapus coromandelianus coromandelianus</i> (Gmelin) -- MP	<i>Gallus sonneratii</i> Temminck -- MP	
	<i>Pavo cristatus</i> Linnaeus -- MP, C	
	<i>Perdicula argoondah argoondah</i> (Sykes) -- MP, C	
	<i>Perdicula argoondah meinertzhageni</i> Whistler -- MP	

Scientific name**Burhinidae**

Burhinus oedicnemus indicus (Salvadori) -- MP, C
Esacus magnirostris recurvirostris (Cuvier) -- MP

Glareolidae

Cursorius coromandelicus (Gmelin) -- MP
Glareola lactea Temminck -- MP, C
Glareola pratincola maldivarum J.R.Forster -- MP

Laridae

Chlidonias hybrida Blanford & Oates -- MP
Chlidonias leucopterus (Temminck) -- C
Gelochelidon nilotica nilotica (Gmelin) -- MP
Larus brunnicephalus Jerdon -- MP
Larus fuscus fuscus Linnaeus -- MP
Larus ridibundus ridibundus Linnaeus -- MP
Sterna acuticauda J.E. Gray -- MP
Sterna aurantia J.E. Gray -- MP

Rynchopidae

Rynchops albicollis Swainson -- MP

Pteroclididae

Pterocles coronatus atratus Hartert -- MP
Pterocles exustus erlangeri (Neumann) -- MP
Pterocles indicus indicus (Gmelin) -- MP

Columbidae

Chalcophaps indica indica (Linnaeus) -- MP, C
Columba livia intermedia Strickland -- MP
Columba punicea Blyth -- C
Ducula aenea sylvatica (Tickell) -- C
Streptopelia chinensis suratensis (Gmelin) -- MP, C
Streptopelia decaocto decaocto (Frisvaldszky) -- MP, C
Streptopelia senegalensis cambayensis (Gmelin) -- MP
Streptopelia tranquebarica (Hermann) -- MP
Streptopelia orientalis agricola (Tickell) -- MP
Streptopelia orientalis meena (Sykes) -- MP
Streptopelia orientalis orientalis (Latham) -- MP, C
Treron bicincta bicincta (Jerdon) -- C
Treron phoenicoptera chlorigaster (Blyth) -- MP, C
Treron phoenicoptera phoenicoptera (Latham) -- MP, C

Psittacidae

Loriculus vernalis (Sparman) -- MP, C
Psittacula cyanocephala bengalensis (Forster) -- MP
Psittacula cyanocephala cyanocephala (Linnaeus) -- MP, C
Psittacula eupatria eupatria (Linnaeus) -- MP
Psittacula eupatria nipalensis (Hodgson) -- MP, C
Psittacula krameri borealis (Neumann) -- MP, C
Psittacula krameri manillensis (Bechstein) -- MP

Cuculidae

Cacomantis merulinus querulus Heine -- C
Cacomantis passerinus (Vahl) -- MP
Cacomantis sonneratii sonneratii (Latham) -- MP
Centropus sinensis parroti Stresemann -- MP, C
Clamator jacobinus jacobinus (Boddaert) -- MP
Clamator jacobinus serratus (Sparman) -- MP
Cuculus canorus canorus Linnaeus -- MP, C
Cuculus micropterus micropterus Gould -- MP, C
Eudynamis scolopacea scolopacea (Linnaeus) -- MP, C
Hierococcyx sparverioides sparverioides Vigors -- MP
Hierococcyx varius Vahl -- MP, C
Hierococcyx varius cicelidae (Phillips) -- MP
Phaenicophaeus leschenaultii infuscata Blyth -- C
Phaenicophaeus leschenaultii leschenaultii Lesson -- MP, C
Phaenicophaeus leschenaultii sirkee (J.E. Gray) -- MP
Phaenicophaeus tristis tristis (Lesson) -- C

Tytonidae

Tyto alba stertens Hartert -- MP
Tyto capensis longimembris (Jerdon) -- MP, C

Scientific name**Strigidae**

Asio flammeus flammeus (Pontoppidan) -- MP
Athene brama brama (Temminck) -- MP, C
Athene brama indica (Franklin) -- MP
Bubo bubo bengalensis (Franklin) -- MP
Bubo coromandus coromandus (Latham) -- MP, C
Glaucidium radiatum radiatum (Tickell) -- MP, C
Heteroglaux blewitti Hume -- MP
Ketupa zeylonensis leschenaulti (Temminck) -- MP
Ninox scutulata lugubris (Tickell) -- MP, C
Otus bakkamoena bakkamoena Pennant -- MP
Otus bakkamoena marathae Ticehurst -- MP, C
Otus scops sunia (Hodgson) -- MP
Strix leptogrammica connectens Koelz -- MP, C
Strix ocellata ocellata (Lesson) -- MP

Caprimulgidae

Caprimulgus affinis monticola Franklin -- MP, C
Caprimulgus asiaticus asiaticus Latham -- MP, C
Caprimulgus europaeus Linnaeus -- MP
Caprimulgus indicus indicus Latham -- MP, C

Apodidae

Apus affinis affinis (J.E. Gray) -- MP
Tachymartys melba bakeri Hartert -- MP
Tachymartys melba melba (Linnaeus) -- MP
Zoonavena sylvatica (Tickell) -- MP

Hemiprocnidae

Hemiproctne longipennis coronata (Tickell) -- MP, C

Trogonidae

Harpactes fasciatus legerii Koelz -- C

Alcedinidae

Alcedo atthis bengalensis Gmelin -- MP
Alcedo atthis pallasii Reichenbach -- MP
Alcedo atthis taprobana Kleinschmidt -- MP
Ceryle rudis leucomelanura Reichenbach -- MP
Halcyon capensis capensis (Linnaeus) -- MP
Halcyon pileata (Boddaert) -- MP
Halcyon smyrnensis fusca (Boddaert) -- MP, C
Halcyon smyrnensis perpulchra Madarasz -- MP
Halcyon smyrnensis smyrnensis (Linnaeus) -- MP, C

Meropidae

Merops leschenaulti leschenaulti Vieillot -- C
Merops orientalis orientalis Latham -- MP, C
Merops persicus Linnaeus -- MP
Merops philippinus philippinus Linnaeus -- MP, C
Nyctyonis athertoni athertoni (Jardine & Selby) -- MP

Coraciidae

Coracias benghalensis benghalensis (Linnaeus) -- MP, C
Coracias benghalensis indica Linnaeus -- MP
Coracias garrulus semenowi Loudon & Tschudi -- MP

Upupidae

Upupa epops Linnaeus -- MP
Upupa epops ceylonensis Reichenbach -- MP

Bucerotidae

Anthracoceros coronatus coronatus (Boddaert) -- MP, C
Anthracoceros malabaricus malabaricus (Gmelin) -- C
Ocyrceros birostris (Scopoli) -- MP

Capitonidae

Megalaima haemacephala indica (Latham) -- MP, C
Megalaima zeylanica caniceps (Franklin) -- MP, C

Picidae

Celeus brachyurus phaiiceps Blyth -- MP, C
Chrysocolaptes festivus festivus (Boddaert) -- MP
Chrysocolaptes lucidus guttastratus (Tickell) -- C
Dinopium benghalense benghalense (Linnaeus) -- MP, C
Dryocopus canicapillus (Blyth) -- MP, C

Scientific name

Dryocopus javensis hodgsonii (Jerdon) -- MP, C
Dryocopus mahrattensis mahrattensis (Latham) -- MP, C
Dryocopus nanus hardwickii (Jerdon) -- MP, C
Hemicircus canente (Lesson) -- MP, C
Jynx torquilla torquilla Linnaeus -- MP, C
Picumus innominatus malayorum Hartert -- C
Picus chlorolophus Vieillot -- MP
Picus xanthopygaeus (Gray & Gray) -- MP, C

Pittidae

Pitta brachyura brachyura (Linnaeus) -- MP

Alaudidae

Alauda gulgula dharmakumarsinghii Abdulali -- MP
Alauda gulgula gulgula Franklin -- MP
Ammomanes phoenicurus phoenicurus (Franklin) -- MP
Calandrella acutirostris acutirostris Hume -- MP
Calandrella acutirostris tibetana Brooks -- MP
Calandrella cinerea longipennis (Eversmann) -- MP
Eremopterix grisea (Scopoli) -- MP, C
Galerida cristata chendoola (Franklin) -- MP, C
Galerida deva (Sykes) -- MP
Melanocorypha bimaculata Menetries -- MP
Mirafra assamica affinis Blyth -- MP, C
Mirafra assamica assamica Horsfield -- MP
Mirafra erythroptera erythroptera Blyth -- MP, C
Mirafra javanica cantillans Blyth -- MP

Hirundinidae

Delichon urbana cashmeriensis (Gould) -- C
Delichon urbana urbana (Linnaeus) -- MP
Hirundo concolor concolor Sykes -- MP
Hirundo daurica erythropterygia Sykes -- MP
Hirundo daurica japonica Temminck & Schlegel -- C
Hirundo daurica nipalensis Hodgson -- MP, C
Hirundo fluvicola Blyth -- MP
Hirundo rupestris Scopoli -- MP
Hirundo rustica rustica Linnaeus -- MP
Hirundo smithii filifera Stephens -- MP
Riparia paludicola chinensis (J. E. Gray) -- MP
Riparia riparia (Linnaeus) -- MP

Motacillidae

Anthus campestris campestris (Linnaeus) -- MP
Anthus godlewskii (Taczanowski) -- MP
Anthus hodgsoni hodgsoni Richmond -- MP, C
Anthus novaeseelandiae richardi Vieillot -- MP
Anthus novaeseelandiae rufulus Vieillot -- MP, C
Anthus novaeseelandiae waiti Whistler -- MP
Anthus roseatus Blyth -- MP
Anthus similis decaptus Meinertzhagen -- MP
Anthus similis jerdoni Finsch -- MP
Anthus trivialis haringtoni Witherby -- MP
Anthus trivialis trivialis (Linnaeus) -- MP
Dendronanthus indica Gmelin -- MP
Motacilla alba dukhunensis Sykes -- MP
Motacilla alba leucopsis Gould -- MP
Motacilla alba personata Gould -- MP
Motacilla cinerea Tunstall -- MP, C
Motacilla citreola calcarata Hodgson -- MP
Motacilla citreola werae (Buturlin) -- MP
Motacilla flava thunbergi Billberg -- MP
Motacilla maderaspatensis Gmelin -- MP

Campephagidae

Coracina melaschistos melaschistos (Hodgson) -- MP
Coracina melanoptera sykesi (Strickland) -- MP, C
Coracina novaehollandiae macei (Lesson) -- MP, C
Hemipus picatus picatus (Sykes) -- MP, C
Pericrocotus brevirostris brevirostris (Vigors) -- MP
Pericrocotus cinnamomeus cinnamomeus (Linnaeus) -- MP, C
Pericrocotus cinnamomeus peregrinus (Linnaeus) -- MP
Pericrocotus erythropygus erythropygus (Jerdon) -- MP
Pericrocotus ethologus favillaceus Bangs & Phillips -- MP
Pericrocotus flammeus flammeus (Forster) -- MP, C

Scientific name

Pericrocotus flammeus semiruber Whistler & Kinnear -- MP, C
Pericrocotus roseus roseus (Vieillot) -- MP, C
Tephrodornis pondicerianus pallidus Ticehurst -- MP
Tephrodornis pondicerianus pondicerianus (Gmelin) -- MP, C

Pycnonotidae

Pycnonotus cafer humayuni Deignan -- MP, C
Pycnonotus jocosus fuscicaudatus (Gould) -- MP
Pycnonotus leucogenys leucotis (Gould) -- MP
Pycnonotus luteolus luteolus (Lesson) -- MP
Pycnonotus melanicterus flaviventris (Tickell) -- MP, C

Irenidae

Aegithina nigrolutea (Marshall) -- MP
Aegithina tiphia humei Baker -- MP, C
Chloropsis aurifrons (Temminck) -- MP
Chloropsis cochinchinensis jerdoni (Blyth) -- MP, C
Chloropsis cochinchinensis ssp. (Gmelin) -- MP

Laniidae

Lanius collurio isabellinus Hemprich & Ehrenberg -- MP, C
Lanius cristatus cristatus Linnaeus -- MP, C
Lanius excubitor lahtora (Sykes) -- MP
Lanius schach caniceps Blyth -- MP
Lanius schach erythronotus (Vigors) -- MP, C
Lanius tephronotus tephronotus (Vigors) -- MP
Lanius vittatus vittatus Valenciennes -- MP

Muscicapidae

Acrocephalus agricola (Jerdon) -- MP
Acrocephalus agricola capistrata (Severtzov) -- MP
Acrocephalus dumetorum Blyth -- MP, C
Acrocephalus melanopogon mimica Madarasz -- MP
Acrocephalus stentoreus brunnescens (Jerdon) -- MP
Alcippe poiocephala brucei Hume -- MP, C
Cercomela fusca (Blyth) -- MP
Chrysomma sinense hypoleucum (Franklin) -- MP
Chrysomma sinense sinense (Gmelin) -- MP, C
Cisticola exilis erythrocephala Blyth -- MP
Cisticola juncidis cursitans (Franklin) -- MP
Copsychus malabaricus indicus (Baker) -- MP, C
Copsychus malabaricus malabaricus (Scopoli) -- MP, C
Copsychus saularis saularis (Linnaeus) -- MP, C
Culicicapa ceylonensis ceylonensis (Swainson) -- MP
Cyornis tickelliae tickelliae (Blyth) -- MP, C
Dumetia hyperythra hyperythra (Franklin) -- MP
Eumyias thalassina thalassina Swainson -- MP, C
Ficedula parva albicilla Pallas -- MP
Ficedula parva parva Bechstein -- MP
Ficedula subrubra Hartert & Steinbacher -- C
Ficedula superciliiaris superciliiaris Jerdon -- MP
Ficedula westermanni collini Rothschild -- C
Hippolais caligata caligata (Lichtenstein) -- MP
Hippolais caligata rama (Sykes) -- MP
Hypothymis azurea styani (Hartlaub) -- MP, C
Locustella certhiola rubescens Blyth -- MP
Locustella naevia straminea Seebom -- MP
Luscinia brunneus (Hodgson) -- C
Luscinia calliope (Pallas) -- MP, C
Luscinia svecica svecica (Linnaeus) -- MP
Macronous gularis rubricapilla (Tickell) -- C
Megalurus palustris Horsfield -- MP
Monticola cinclorhynchus (Vigors) -- MP, C
Monticola solitarius pandoo (Sykes) -- MP
Muscicapa latirostris Raffles -- MP
Muscicapa muttui (Layard) -- MP
Muscicapa ruficauda Swainson -- C
Myiophonus horsfieldii (Vigors) -- MP, C
Oenanthe isabellina (Temminck) -- MP
Oenanthe oenanthe oenanthe (Linnaeus) -- MP
Oenanthe picata (Blyth) -- MP
Orthotomus sutorius guzuratus (Latham) -- MP, C
Pellorneum ruficeps ruficeps Swainson -- MP, C

Scientific name

Phoenicurus ochruros rufiventris (Vieillot) -- MP
Phylloscopus affinis (Tickell) -- MP
Phylloscopus collybita (Vieillot) -- MP
Phylloscopus griseolus Blyth -- MP
Phylloscopus inornatus humei (Brooks) -- MP
Phylloscopus magnirostris Blyth -- MP
Phylloscopus occipitalis occipitalis (Blyth) -- MP, C
Phylloscopus subviridis (Brooks) -- MP
Phylloscopus trochiloides viridanus Blyth -- MP
Phylloscopus tyleri Brooks -- MP
Pomatorhinus schisticeps horsfieldii Sykes -- MP
Pomatorhinus schisticeps obscurus Hume -- MP
Prinia buchanani Blyth -- MP
Prinia gracilis Blyth (Franklin) -- MP
Prinia hodgsonii hodgsonii Blyth -- MP
Prinia socialis stewarti Blyth -- MP
Prinia subflava inornata Sykes -- MP
Prinia sylvatica gangetica (Blyth) -- MP
Prinia sylvatica sylvatica Jerdon -- MP, C
Rhipidura albicollis albogularis (Lesson) -- MP, C
Rhipidura albicollis orissae Ripley -- MP
Rhipidura aureola aureola (Lesson) -- MP
Saxicola caprata bicolor Sykes -- MP
Saxicola caprata burmanica Baker -- MP
Saxicola ferrea Gray -- MP
Saxicola torquata indica (Blyth) -- MP
Saxicoloides fulicata cambaiensis (Latham) -- MP, C
Saxicoloides fulicata intermedia Whistler & Kinnear -- MP, C
Sylvia curruca blythi Ticehurst & Whistler -- MP
Sylvia hortensis jerdoni (Blyth) -- MP
Terpsiphone paradisi leucogaster (Swainson) -- MP
Terpsiphone paradisi paradisi (Linnaeus) -- MP, C
Turdoides caudatus caudatus (Dumont) -- MP
Turdoides malcolmi (Sykes) -- MP, C
Turdoides striatus orientalis (Jerdon) -- MP, C
Turdoides striatus somervillei (Sykes) -- C
Turdoides strubrus hyperythrus (Sharpe) -- MP
Turdus merula nigropileus (Lafresnaye) -- MP, C
Turdus merula similis Jerdon -- MP, C
Turdus ruficollis atrogularis Jarocki -- MP, C
Turdus unicolor Tickell -- C
Zoothera citrina citrina (Latham) -- MP, C
Zoothera citrina cyanotus (Jardine & Selby) -- MP, C
Zoothera dauma dauma (Latham) -- MP

Remizidae

Cephalopyrus flammiceps flammiceps (Burton) -- MP, C

Paridae

Parus major maharattarum Hartert -- MP
Parus major stupae Koelz -- MP, C
Parus xanthogenys aplonotus Blyth -- MP, C

Sittidae

Sitta castanea castanea Lesson -- MP, C
Sitta frontalis frontalis Swainson -- MP, C

Certhiidae

Salpornis spilonotus spilonotus (Franklin) -- MP, C

Dicaeidae

Dicaeum agile agile (Tickell) -- MP, C
Dicaeum erythrorhynchus (Latham) -- MP, C

Nectariniidae

Aethopyga siparaja seheriae (Tickell) -- MP
Aethopyga siparaja vigorsii (Sykes) -- C
Nectarinia asiatica asiatica (Latham) -- MP, C
Nectarinia zeylonica sola (Vieillot) -- MP, C

Zosteropidae

Zosterops palpebrosus palpebrosus (Temminck) -- MP

Scientific name

Emberizidae
Emberiza bruniceps Brandt -- MP
Emberiza buchanani Blyth -- MP
Emberiza melanocephala Scopoli -- MP
Emberiza stewarti (Blyth) -- MP
Emberiza striolata striolata (Lichtenstein) -- MP
Melophus lathamii (Gray) -- MP, C

Fringillidae

Carpodacus erythrinus erythrinus (Pallas) -- MP
Carpodacus erythrinus roseatus (Blyth) -- MP, C

Estrilidae

Amandava amandava amandava (Linnaeus) -- MP
Amandava formosa (Latham) -- MP, C
Lonchura malabarica (Linnaeus) -- MP
Lonchura malacca malacca (Linnaeus) -- MP, C
Lonchura punctulata punctulata (Linnaeus) -- MP, C
Lonchura striata striata (Linnaeus) -- MP

Ploceidae

Passer domesticus indicus Jardine & Selby -- MP
Passer hispaniolensis transcaspicus Tschusi -- MP
Petronia xanthocolis xanthocolis (Burton) -- MP, C
Ploceus benghalensis (Linnaeus) -- MP, C
Ploceus manyar flaviceps Lesson -- MP
Ploceus philippinus philippinus (Linnaeus) -- MP

Sturnidae

Acridotheres fuscus fuscus (Wagler) -- MP, C
Acridotheres fuscus maharattensis (Sykes) -- MP
Acridotheres ginginianus (Latham) -- MP
Acridotheres tristis tristis (Linnaeus) -- MP, C
Gracula religiosa intermedia A.Hay -- C
Gracula religiosa peninsularis Whistler & Kinnear -- MP
Sturnus contra contra Linnaeus -- MP, C
Sturnus malabaricus malabaricus (Gmelin) -- MP, C
Sturnus pagodarum (Gmelin) -- MP, C
Sturnus roseus (Linnaeus) -- MP
Sturnus vulgaris poltaratskyi Finsch -- MP

Oriolidae

Oriolus oriolus kundoo Sykes -- MP, C
Oriolus xanthornus maderaspatanus Franklin -- MP, C
Oriolus xanthornus xanthornus (Linnaeus) -- MP, C

Dicruridae

Dicrurus adsimilis macrocercus Vieillot -- MP, C
Dicrurus aeneus aeneus Vieillot -- C
Dicrurus caerulescens caerulescens (Linnaeus) -- MP
Dicrurus hottentottus hottentottus (Linnaeus) -- MP, C
Dicrurus leucophaeus longicaudatus Hay -- MP, C
Dicrurus paradiseus grandis (Gould) -- C
Dicrurus paradiseus paradiseus (Linnaeus) -- MP, C

Artamidae

Artamus fuscus Vieillot -- MP, C

Corvidae

Corvus corax subcorax Severtzov -- MP
Corvus macrorhynchus culminatus Sykes -- MP
Corvus splendens splendens Vieillot -- MP, C
Dendrocitta vagabunda pallida (Blyth) -- MP
Dendrocitta vagabunda vagabunda (Latham) -- MP, C

See web supplement online for district-wise distribution of birds in Madhya Pradesh and Chhattisgarh at www.zoosprint.org

Bhusan (1985), D'Cunha and Akhtar (1986), Chandra (1987), Rahmani (1988, 1996), Islam (1989), Mohapatra and Rao (1990a,b), Tyabji (1990), Natrajan (1991), Bharos (1992), Bharos (1990, 1992a,b,c,d,e, 1996a,b,c,d, 1997a,b,c,d, 1998a,b, 1999a,b), Sankaran (1994), Dwivedi and Mishra (1995), Kanoje (1995, 1997a,b), Khalid *et al.* (1996), Patel (1997), Saxena (1998a,b) and Homkar and Shrivastava (2000).

The present paper gives an account of avifauna of Madhya Pradesh and Chhattisgarh, alongwith their district-wise distribution (Table 2^w) on the basis of available literature on birds of Madhya Pradesh and localities of central provinces and central India, which are in Madhya Pradesh. Presently 517 species and subspecies of birds belonging to 69 families are reported from Chhattisgarh and Madhya Pradesh, of which 488 species and subspecies are known from Madhya Pradesh, and 197 species and subspecies are from Chhattisgarh. The list of all the species, their state-wise distribution is given in Table 1 and district-wise distribution in Table 2^w in the web supplement. District maps of the two states are given in Images 1 and 2^w in the web supplement.

REFERENCES

- Ali, S. (1939). The birds of Central India, Part-I. *Journal of the Bombay Natural History Society* 41(1): 82-106.
- Ali, S. (1940). The birds of Central India, Part-II. *Journal of the Bombay Natural History Society* 41(3): 470-488.
- Ali, S. and S.D. Ripley (1968). *Handbook of the Birds of India and Pakistan*. Oxford University Press, Vol. 1, 380pp.+1-18pl.
- Ali, S. and S.D. Ripley (1969a). *Handbook of the Birds of India and Pakistan*. Oxford University Press, Vol. 2, 345pp+19-31pl.
- Ali, S. and S.D. Ripley (1969b). *Handbook of the Birds of India and Pakistan*. Oxford University Press, Vol. 3, 325pp.+32-43pl.
- Ali, S. and S.D. Ripley (1970). *Handbook of the Birds of India and Pakistan*. Oxford University Press, Vol. 4, 265pp.+44-54pl.
- Ali, S. and S.D. Ripley (1971). *Handbook of the Birds of India and Pakistan*. Oxford University Press, Vol. 6, 245pp.+65-72pl.
- Ali, S. and S.D. Ripley (1972a). *Handbook of the Birds of India and Pakistan*. Oxford University Press, Vol. 5, 276pp.+55-64pl.
- Ali, S. and S.D. Ripley (1972b). *Handbook of the Birds of India and Pakistan*. Oxford University Press, Vol. 7, 236pp.+73-83pl.
- Ali, S. and S.D. Ripley (1973a). *Handbook of the Birds of India and Pakistan*. Oxford University Press, Vol. 8, 277pp.+84-91pl.
- Ali, S. and S.D. Ripley (1973b). *Handbook of the Birds of India and Pakistan*. Oxford University Press, Vol. 9, 306pp.+92-101pl.
- Ali, S. and S.D. Ripley (1974). *Handbook of the Birds of India and Pakistan*. Oxford University Press, Vol. 10, 334pp.+102-113pl.
- Amladi, S.R. (1973). Birdwatching around Pachmarhi, M.P. *Newsletter for Birdwatchers* 13(8): 5-8.
- Baker, E.C.S. (1922). *Fauna of British India, including Ceylon and Burma*: Taylor and Francis, London, Birds, Vol. 1, 479pp.
- Baker, E.C.S. (1924). *Fauna of British India, including Ceylon and Burma*: Taylor and Francis, London, Birds, Vol. 2, 561pp.
- Baker, E.C.S. (1926). *Fauna of British India, including Ceylon and Burma*: Taylor and Francis, London, Birds, Vol. 3, 489pp.
- Baker, E.C.S. (1927). *Fauna of British India, including Ceylon and Burma*: Taylor and Francis, London, Birds, Vol. 4, 471pp.
- Baker, E.C.S. (1928). *Fauna of British India, including Ceylon and Burma*: Taylor and Francis, London, Birds, Vol. 5, 469pp.
- Baker, E.C.S. (1929). *Fauna of British India, including Ceylon and Burma*: Taylor and Francis, London, Birds, Vol. 6, 499pp.
- Baker, E.C.S. (1930a). *Fauna of British India, including Ceylon and Burma*: Taylor and Francis, London, Birds, Vol. 7, 488pp.
- Baker, E.C.S. (1930b). *Fauna of British India, including Ceylon and Burma*: Taylor and Francis, London, Birds, Vol.8, pp.485-801.
- Barnes, E.H. (1887). The two shamas. *Journal of the Bombay Natural History Society* 2(1): 56.
- Bates, R.S.P. (1927). Impressions of Pachmarhi birds. *Journal of the Bombay Natural History Society* 31: 918-931.
- Bharos, A. (1992). Sighting of an Indian Blue Chat *Erithacus brunneus* (Hodgson) at Raipur, Madhya Pradesh. *Journal of the Bombay Natural History Society* 89(3): 377.
- Bharos, A.M.K. (1990). Unusually large congregation and behaviour of Indian rollers *Coracias benghalensis*. *Journal of the Bombay Natural History Society* 87: 300.
- Bharos, A.M.K. (1992a). Feeding by Common Nightjar *Caprimulgus asiaticus* and Indian Roller *Coracias benghalensis* in the light of mercury vapour lamps. *Journal of the Bombay Natural History Society* 89(1): 124.
- Bharos, A.M.K. (1992b). Interesting feeding pattern of Yellow-throated Sparrow *Petronia xanthocollis* (Burton). *Journal of the Bombay Natural History Society* 89(1): 128.
- Bharos, A.M.K. (1992c). Occurrence of Wryneck *Jynx torquilla* Linn. *Journal of the Bombay Natural History Society* 89(2): 254.
- Bharos, A.M.K. (1992d). Occurrence of the Indian Great Black Woodpecker *Dryocopus javensis* (Horsfield). *Journal of the Bombay Natural History Society* 89(2): 255.
- Bharos, A.M.K. (1992e). Leap-frogging in Common Babbler *Turdoides caudatus caudatus* (Dumont). *Journal of the Bombay Natural History Society* 89(3): 376.
- Bharos, A.M.K. (1996a). Sideways Leap-frogging by the Large Grey Babbler, *Turdoides malcolmi* (Sykes). *Journal of the Bombay Natural History Society* 93(1): 93.
- Bharos, A.M.K. (1996b). Albino Little Grebe *Tachybaptus ruficollis*. *Journal of the Bombay Natural History Society* 93(2): 293.
- Bharos, A.M.K. (1996c). Cuckoo (*Cuculus canorus* Linn.) in Sidhi District, Madhya Pradesh, India. *Journal of the Bombay Natural History Society* 93(2): 294-295.
- Bharos, A.M.K. (1996d). Range extension of the Malabar Whistling Thrush, *Myiophonus horsfieldii* (Vigors). *Journal of the Bombay Natural History Society* 93(2): 295.
- Bharos, A.M.K. (1997a). Unusual feeding pattern and diet of Crimson Breasted Barbet (*Megalaima haemacephala*). *Journal of the Bombay Natural History Society* 94(2): 295.
- Bharos, A.M.K. (1997b). Goldmantled Chloropsis (*Chloropsis cochinchinensis*) feeding on raw potato chips. *Journal of the Bombay Natural History Society* 94(2): 412-413.
- Bharos, A.M.K. (1997c). A large communal roost of Black-winged kites *Elanus caeruleus*. *Journal of the Bombay Natural History Society* 94(3): 566.
- Bharos, A.M.K. (1997d). Indian Robin (*Saxicola fulicata*) foraging in the light of fluorescent lamps. *Journal of the Bombay Natural History Society* 94(3): 571.
- Bharos, A.M.K. (1998a). Mimicry by Common Iora *Aegithina tiphia*. *Journal of the Bombay Natural History Society* 95(1): 116.
- Bharos, A.M.K. (1998b). Use of Cattle Egret *Bubulcus ibis* organs as a medicine. *Journal of the Bombay Natural History Society* 95(3): 503.
- Bharos, A.M.K. (1999a). House sparrow feeding on tender leaves of neem (*Azadirachta indica*). *Journal of the Bombay Natural History Society* 96(1): 146.
- Bharos, A.M.K. (1999b). Attempt by Red-vented Bulbul *Pycnonotus cafer* to feed on a young House Gecko *Hemidactylus falviriviridis*. *Journal of the Bombay Natural History Society* 96(2): 320.
- Bhushan, B. (1985). Indian Whiskered Terns *Chlidonias hybridus* mobbing a female Black Buck *Antelope cervicapra*. *Journal of the Bombay Natural History Society* 82(2): 409-410.
- Chandra, J. (1987). Bird ringing at Karera Great Indian Bustard Sanctuary. *Zoos' Print Journal* 2(10): 5-6.
- D'Abreu, E.A. (1912). Notes on a bird collection trip in the Balaghat District of the Central Provinces. *Journal of the Bombay Natural History Society* 21(4): 1158-1169.

^w See Table 2 on the web at www.zoosprint.org

- D'Abreu, E.A. (1913).** The occurrence of the Himalayan Yellow-backed Sun bird *Aethopyga seheriaen* in the Central Provinces and extension of its habitat. *Journal of the Bombay Natural History Society* 22(2): 392-393.
- D'Abreu, E.A. (1914).** The Yellow-breasted Babbler (*Mixornis rubricapillus*) in the Bastar State, Central Provinces. *Journal of the Bombay Natural History Society* 23(1): 154.
- D'Abreu, E.A. (1931).** Notes of the Fauna of British India. Birds, chiefly with reference to the Central Provinces. *Journal of the Bombay Natural History Society* 35: 217-219.
- D' Cunha, E.P.E. and A. Akhtar (1986).** Mortality from a Hail-Storm at the Karera Bustard Sanctuary, Madhya Pradesh. *Journal of the Bombay Natural History Society* 83(2): 218-219.
- Davis, T.A. (1974).** Selection of nesting trees and the frequency of the nest visits by Baya Weaverbird. *Journal of the Bombay Natural History Society* 71(3): 356-366.
- Deeks, E.P. (1935).** Occurrence of the Great Indian Bustard (*Choriotis nigriceps*) near Saugor. *Journal of the Bombay Natural History Society* 37(3): 956.
- Dwivedi, P. and R.M. Mishra (1995).** Dispersal ecology of *Buchanania lanzan* Spreng. *Journal of the Bombay Natural History Society* 11(4): 264- 269.
- Ghosal, D.K. (1995).** AVES. Fauna of Conservation Areas No. 7: Fauna of Kanha Tiger Reserve, Zoological Survey of India pp.63-91.
- Hewetson, C.E. (1939).** The bird year in Betul. *Journal of the Bombay Natural History Society* 41: 286-310.
- Hewetson, C.E. (1944).** Bearded Bee-eater (*Alcedo coromandica*) in the Central Provinces. *Journal of the Bombay Natural History Society* 44(4): 592-593.
- Hewetson, C.E. (1954).** Migration of insectivorous birds in Madhya Pradesh in 1953. *Journal of the Bombay Natural History Society* 52(1): 207-208.
- Hide, P. (1919).** Late stay of Common Snipe (*Gallinago coelestis*) in Central India. *Journal of the Bombay Natural History Society* 26(3): 849.
- Homkar, U. and J.L. Shrivastava (2000).** A note on Avifauna of State Forest Research Institute, Jabalpur. *Vaniki Sandesh* 24(3): 12-16.
- Islam, M.A. (1989).** Satpura hypothesis and the distribution of Laughing Thrushes (*Garrulax lessona*) of India. *Journal of the Bombay Natural History Society* 86(3): 318-322.
- Kanoje, R. (1995).** Birdwatchers are welcome to the Kanha Tiger Reserve. *Newsletter for Bird Watchers* 35(3): 58.
- Kanoje, R. (1997a).** Common Pochard, Tufted Duck and Great Crested Grebe in Kanha Tiger Reserve. *Newsletter for Birdwatchers* 37(2): 20.
- Kanoje, R. (1997b).** Nesting site of White-eyed Buzzard in Kanha National Park. *Newsletter for Birdwatchers* 37(5): 90.
- Khalid, S., M. Pasha and K. Sankar (1996).** Sighting of Pied Harrier *Circus melanoleucos* (Pennant) in Pench Tiger Reserve, Madhya Pradesh. *Newsletter for Birdwatchers* 36(2): 38-39.
- Majumdar, N. (1984).** On a collection of birds from Bastar District, M.P. *Record Zoological Survey of India*. Occasional Paper. No.59: 54.
- Maries, C. (1897).** List of birds in the Gwalior State Museum, Collected in the Gwalior State. *Journal of the Bombay Natural History Society* 11(1): 136-140.
- Mohapatra, K.K. and P. Rao (1990a).** Occurrence of Long-clawed Skylark *Alauda gulgula dharmakumarsinhji* in Central India. *Journal of the Bombay Natural History Society* 87(1): 146.
- Mohapatra, K.K. and P. Rao (1990b).** Range extension of the Spanish Sparrow *Passer hispaniolensis* (Temminck). *Journal of the Bombay Natural History Society* 87(1): 149.
- Moss, R.C.H.K. (1911).** The resident birds of the Saugar and Damoh Districts, Central Provinces. *Journal of the Bombay Natural History Society* 21(1): 87-103.
- Natrajan, V. (1991).** Occurrence of the European Nightjar *Caprimulgus europaeus* Linn. in Karera Bustard Sanctuary, M.P. *Journal of the Bombay Natural History Society* 88(2): 284.
- Newton, P.N., S. Brudin and J. Guy (1986).** The birds of Kanha Tiger Reserve, Madhya Pradesh, India. *Journal of the Bombay Natural History Society* 83(3): 477-498.
- Osmaston, B.B. (1922a).** Birds of Pachmarhi. *Journal of the Bombay Natural History Society* 28: 453-459.
- Osmaston, B.B. (1922b).** The occurrence of the Blue-bearded Bee-eater (*Nyctornis athertoni*) in the Central Provinces. *Journal of the Bombay Natural History Society* 28(3): 805.
- Osmaston, B.B. (1923).** Occurrence of the Flamingo - *P. roseus* in the Central Provinces. *Journal of the Bombay Natural History Society* 28(2): 549-550.
- Patel, U. (1997).** Nesting Sunbirds. *Sanctuary Asia* 17(1): 38-41.
- Pitman, C.R.S. (1913a).** Late Stay of Snipe in the Central Provinces. *Journal of the Bombay Natural History Society* 21(3): 631
- Pitman, C.R.S. (1913b).** Malabar Pied Hornbill (*Anthracoceros coronatus*). *Journal of the Bombay Natural History Society* 22(3): 626.
- Pitman, C.R.S. (1913c).** The Cuckoo (*Cuculus canorus*) in the Central Provinces. *Journal of the Bombay Natural History Society* 22(3): 626.
- Rahmani, A.R. (1988).** Dihaila Jheel - a new candidate of the Ramsar Convention *Oryx* 22(4): 211-215.
- Rahmani, A.R. (1991).** Birds of the Karera Bustard Sanctuary, Madhya Pradesh. *Journal of the Bombay Natural History Society* 88(2): 172-194.
- Rahmani, A.R. (1996).** Strategies for long-term conservation of Great Indian Bustard *Ardeotis nigriceps* in India. *Journal of the Bombay Natural History Society* 93(2): 400-458.
- Roonwal, M.L. (1942).** On a collection of birds from the Hoshangabad district (Central Provinces, India). *Record Indian Museum* 44: 107-137.
- Sankaran, R. (1994).** Some aspects of the territorial system in Lesser Florican *Syphoeotides indica* (J.F. Miller). *Journal of the Bombay Natural History Society* 91(2): 173-186.
- Saxena, R. (1998a).** A checklist of birds of Morena District (M.P.). *Newsletter for Birdwatchers* 38(2): 28-30.
- Saxena, R. (1998b).** Recurrence of Yellow-legged Green Pigeon and Barn Owl in Gwalior. *Newsletter for Birdwatchers* 38(3): 57-58.
- Saha, S.S. (1995).** AVES. Fauna of Conservation Areas No. 6: Fauna of Indravati Tiger Reserve. Zoological Survey of India: 85-91.
- Sharma, R.D. (1995).** Birding in Madhav National Park, Shivpuri. *Cheetal* 34(1): 14-25.
- Tyabji, H.N. (1990).** Record of some birds from Bandhavgarh National Park previously unrecorded in this area. *Newsletter for Birdwatchers* 30(5 & 6): 12.
- Wright, M.D. (1942).** Notes on the Birds of Berar. *Journal of the Bombay Natural History Society* 43: 428-445.

ACKNOWLEDGEMENTS

The authors are thankful to Dr. J.R.B. Alfred, Director, Zoological Survey of India, for providing all the necessary facilities and encouragement. Thanks are also due to Shri K. Vinod, Stenographer for typing the manuscript.

