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# An annotated checklist of birds of north-eastern Central African Republic

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### Summary

During a four month stay in the Vakaga prefecture, northern C.A.R., in 1988, 232 species of birds were recorded; an annotated list of species with particular biogeographical interest is presented. A brief comparison with a checklist from a region further south is made.

### Résumé

A l'occasion d'un séjour de quatre mois dans la préfecture de la Vakaga (au nord de la République Centrafricaine) en 1988, 232 espèces d'oiseaux ont été observées. Une liste systématique commentée des espèces ayant un intérêt biogéographique est présentée ainsi qu'une brève comparaison avec une liste concernant une région située plus au sud.

### Introduction

The avifauna of the Central African Republic (C.A.R.) has been little studied. Recently, Carroll (1988) published a checklist for the C.A.R. but without data for the northeastern and south-eastern parts of the country. I spent four months (March, May, June and August) in the Vakaga Prefecture in the north-east of the country, and had the opportunity to observe the birds during excursions every day in a 120 x 30 km area around Birao (see Fig. 1).

In this paper, I present my personal ornithological records with some indication of the status and abundance of bird species in the region. A complete checklist is given in the Appendix.

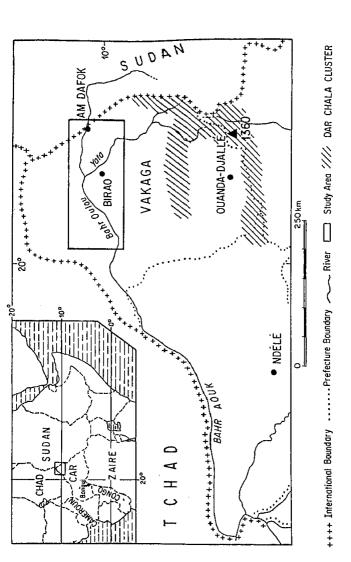


Fig. 1. Vakaga Prefecture, Central African Republic

### The Vakaga Environment

The Vakaga prefecture is situated between Sudan and Chad (10°N, 23°E) and lies on the southern limit of the Chadian Basin. It is a wide floodplain where dry sand formations (unflooded levees) and temporarily flooded depressions (inundated alluvial soils) alternate. It is divided from the rest of the C.A.R. by a long chain of mountains (Precambrian origin), the Dar Chala Cluster, separating the Oubangui Basin from the Chari (L. Chad) Basin. The major geological formations of the region are quaternary (alluvial materials and aeolian materials such as old ergs).

The climate is determined by a high pressure zone centred over the Chadian-Lybian Desert and is thus Sudano-Sahelien (sub-climate Sahelo-Sudanien) which progressively becomes Sudano-Guinean towards the south (for definition see Boulvert 1986). Annual precipitation, averaged over twenty years, is 870 mm in Birao. However, this average must be used with caution because it masks very high inter-annual fluctuations (530 mm to 950 mm) and the decline in rainfall in the last few years. The dry season begins at the end of September and finishes at the end of May, maximum rainfall occurring usually in August.

All the rivers of the Vakaga region belong to the Chari Basin and flow into Lake Chad. In the Vakaga Plain, the rivers only flow between June and the end of September, and at that time are lost in wide marshy zones. These rivers merge to form the Bar Aouk, which flows into the Chari River. In the rainy season, the inundation zone is filled first from rain before the river water, which flows down from the mountains, causes a flood. The Vakaga Plain thus becomes a vast mosaic of ponds, lakes, channels and marshes among the unflooded sand levees. During the dry season, water bodies progressively dry up and disappear by the end of February, although for the last few years there were three or four permanent water bodies which persisted in the region throughout the dry season.

Vegetation on the Vakaga consists of a mosaic of wooded savanna and grassland formations whose respective importance varies with topography and soil patterns.

Wooded savanna formations are generally found on unflooded soils. The characteristic pattern is a patchwork of mixed lowland tree savanna and savanna woodland. Frequently, the distribution of trees within a formation is clumped, sometimes very accentuated where the species are grouped on old termite mounds. The principal tree species are: Anogeisus leiocarpus, Terminalia laxiflora, Butyrospermum paradoxum, Tamarindus indica, Xeromphis nilotica, Combretum nigricans, C. molle, Piliostigma thomningii, Gardenia ternifolia, Burkea africana, Balanites aegyptiaca, Khaya senegalensis, and Isoberlinia sp. (see Boulvert 1986).

A great majority of the grass formations consist of savanna grassland in temporary flooded areas (floodplain prairies). I also include in the grassland savanna category, the cultivated zones occurring near villages.

Two important phytogeographical differences from the more southern regions of the C.A.R. are the lack of permanent rivers, the gallery forest being replaced by lines of trees (Kigelia africana, Mitragyna inermis, Diospyros mespiliformis), and the presence

of several Sahelien plant species for which the Vakaga is their southern natural limit. This latter point has led Boulvert (1986) to put the Vakaga Plain in the Sudano-Sahelien phytogeographical domain.

The sedentary human population density is small (0.5 inhabitants per km²). However, human pressure on the environment (much stronger in the last few years) is high, due to the presence of large Zebu herds led by the nomadic Mbororo, who travel across the plain throughout the dry season. The Mbororo are responsible for fires, overgrazing and felling of trees to feed the animals. Sedentary people live in small villages situated along the few tracks of the region, their main activity being agriculture (millet and groundnuts).

### Systematic List

Although this list may not be exhaustive, it indicates our present knowledge of the avifauna of the Vakaga Prefecture. Some 232 species of bird have been recorded there, of which 169 are known or suspected to breed. I recorded only 22 migratory species, probably due to the lack of observations in March. The list below includes species for which the Vakaga data add to our knowledge about their geographical distribution (extend the known range compared with the information available in Carroll 1982; 1988 and in Nikolaus 1987) or species with data on nesting; remaining species are listed in the Appendix. During my stay in Vakaga, I did not have the opportunity to prospect the southern mountain region. Therefore species living there have not been included.

One can make several comparisons with the checklist of Carroll (1982) concerning a region further to the southwest (Manovo-Gounda-St.Floris National Park). First, an important guild of species is disappearing in Vakaga, with the disappearance of the forest gallery along the rivers. Second, the Vakaga region lacks many species which require dense forest and instead supports several sahelian species.

The meaning of abbreviations is as follows.

Status: B breeding; PB probable breeding (present in reproductive season, but no proof of breeding); R resident; M migratory; ? uncertain status.

Abundance: C common species (with a few hours stay in the appropriate environment, contact with the species is probable); U uncommon species (with a few hours stay in the appropriate environment, contact with the species is uncertain); O occasional (only one or two observations of the species during the four-month observation period).

Example: Little Egret Egretta garzetta: PB, R, U. Ten near Birao 11 Mar. Mar, May, Jun, Aug. This means that I observed the species several times in the months of March, May, June and August and that on 11 March I observed 10 individuals together.

Ostrich Struthio camelus: ?, O. Three in 1983 near Birao. More common in SW Vakaga near Manovo National Park. Not personally recorded.

Dwarf Bittern Ixobrychus sturmii: PB, U. Birao lake and near the village. May, Jun, Aug.

Black-crowned Night Heron Nycticorax nycticorax: PB, U. Jun, Aug.

Squacco Heron Ardeola ralloides: PB, R, U. Breeding plumage Aug. Mar, May, Jun, Aug.

Little Egret Egretta garzetta: PB, R, U. Ten near Birao 11 Mar. Mar, May, Jun, Aug.

Woolly-necked Stork Ciconia episcopus: ?, O. One along the Yata river 24 Jun.

White Stork Ciconia ciconia: M, O. One 23 May, one 13 Jun, Birao.

Cuckoo Falcon Aviceda cuculoides: PB, R(?), U. Several observations near Birao of adults and immatures. May. Aug.

Honey Buzzard Pernis apivorus: M. O. One near Birao 16 May.

Swallow-tailed Kite Chelictinia riocourii: PB, R, U. Max. ten in Yata river 11 Mar. Mar. May, Jun. Aug.

Palm-nut Vulture Gypohierax angolensis: ?, O. One near Am-Dafok 11 Mar.

Hooded Vulture Necrosyrtes numachus: B, R, C. Adult sitting at nest in Birao Mar. Mar, May, Jun, Aug.

Snake-Eagle Circaetus gallicus: PB, R, U. Mar, May, Jun, Aug.

Brown Snake-Eagle Circaetus cinereus: PB, R, U. Mar, May, Jun, Aug.

Wahlberg's Eagle Aquila wahlbergi: PB, R, U. Mar, May, Jun, Aug.

Red-necked Falcon Falco chicquera: B, R, U. Adults attending nest Mar. Mar, May, Jun, Aug.

Red-footed Falcon Falco vespertinus: M, O. One male and one female along the Yata river 15 Mar.

African Hobby Falco cuvieri: PB, U. May, Jun, Aug.

Peregrine Falco peregrinus: ?, O. One imm. near Birao 21 Jun.

Harlequin Quail Cotumix delegorguei: ?, U. May, Aug.

Lesser Moorhen Gallinula angulata: PB, U. May, Jun, Aug.

Denham's Bustard Neotis denhami: PB, U. May, Jun.

Painted Snipe Rostratula bengalensis: ?, O. One female 10 Jun, one male and one female 20 Jun at Birao lake.

Brown-winged Courser Cursorius chalcopterus: PB, U. May, Jun.

Black-headed Lapwing Vauellus tectus: B, C. Adults nesting Mar. Mar, May, Jun, Aug. Whiskered Tern Chlidonias hybrida: ?, U. Ten 24 Jun, six 10 Aug Birao lake. Jun, Aug.

Chestnut-bellied Sandgrouse Pterocles exustus: PB, R(?), U. Mar, Jun.

Western Grey Plantain-eater Crinifer piscator: PB, R, U. Mar, May, Jun, Aug.

Levaillant's Cuckoo Oxylophus levaillantii: PB, U. Jun, Aug.

White-faced Owl Otus leucotis: PB, U. May, Aug.

Verraux's Eagle-Owl Bubo lacteus: PB, U. Mar, Jun.

European Swift Apus apus: M, O. Mar, some in May.

White-rumped Swift Apus caffer. ?, O. Two flocks in Birao. May, Jun.

Mottled Swift Tachymarptis aequatorialis: ?, U. Several observations of small flocks in Birao. May breed in the Dar Chala. May, Jun, Aug.

Little Bee-eater Merops pusillus: PB, R, U. Mar, May, Jun, Aug.

Swallow-tailed Bee-eater Merops hirundineus: PB, U. May, Jun, Aug.

Carmine Bee-eater Merops nubicus: ?, O. Flock near Birao 20 Jun.

Rufous-crowned Roller Coracias naevia: ?, O. Two obs. Jun.

Abyssinian Ground Hornbill *Bucorvus abyssinicus*: PB, R, U. Mar, May, Jun, Aug. White-headed Barbet *Lybius leucocephalus*: PB, R, U. Mar, May, Jun, Aug.

Fine-spotted Woodpecker Campethera punctuligera: PB, R, O. One Mar, one male and one female Aug.

Cardinal Woodpecker Dendropicos fuscescens: PB, R, U. Mar, May, Jun, Aug.

Bearded Woodpecker *Dendropicos nanuquus*: PB (?), O. One male and one female, Jun. Plain-backed Pipit *Anthus leucophrys*: PB, U. May, Jun, Aug.

Grey-backed Fiscal Lanius excubitorius: PB, R, U. Mar, May, Jun, Aug. Distinguished from L. excubitor by pattern of long, broad tail: basal outer part white, distal part black, tipped white.

Amethyst Starling Cinnyricynclus leucogaster: PB, U. May, Jun, Aug.

Red-breasted Wheatear Oenanthe bottae: ?, U. Probably breeding in the Dar Chala. May.

Ant-Chat Myrmecocichla aethiops: PB, U. May, Jun.

Black Flycatcher Melaenomis edolioides: ?, O. Jun.

Yellow-bellied Bunting Emberiza flaviventris; PB, R, U, Mar, May, Jun.

Little Bunting Emberiza forbesi: PB, R, U, Mar, Jun.

Red-headed Quelea Quelea erythrops: PB, U. May, Jun, Aug.

Red-winged Pytilia Pytilia phoenicoptera: PB, U, Jun, Aug.

Zebra Waxbill Amandava subflava: ?, O. Two obs., May, Jun.

### Acknowledgments

I would like to thank Max Germain, A.A. Green, J.D. Thompson and Paul Isenmann for their helpful comments and criticism of the manuscript. Many thanks to Ingrid and Jean-Marc Froment who received me during my travels across the C.A.R. The period spent in Manovo is one that I cherish for its beauty. I dedicate this manuscript to Florence Pingco.

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### Appendix

Other species observed (with status).

Dabchick Tachybaptus ruficollis: PB, U. Jun, Aug.

Reed Cormorant Phalacrocorax africanus: PB, U. Mar, May, Jun, Aug.

White Pelican Pelecanus onocrotalus: M, O. Mar.

Pink-backed Pelican Pelecanus rufescens: M, O. Mar.

Cattle Egret Bubulcus ibis: B, C. Mar, May, Jun, Aug.

Intermediate Egret Egretta intermedia: 7, O. May, Aug.

Great White Egret Egretta alba: PB, U. Mar, May, Jun, Aug.

Purple Heron Ardea purpurea: ?, O. Jun.

Grey Heron Ardea cinerea: M, U. Mar, May, Jun, Aug.

Black-headed Heron Ardea melanocephala: PB, C. Mar, May, Jun, Aug.

Goliath Heron Ardea goliath: ?, O. Aug.

Hamerkop Scopus umbretta: PB, U. Mar, May, Jun, Aug.

Wood Ibis Mycteria ibis: ?, O. Mar.

Open-billed Stork Anastonus lamelligerus: PB, C. Mar, May, Jun, Aug.

Abdim's Stork Ciconia abdimii: B, C. May, Jun, Aug.

Saddle-billed Stork Ephippiorhynchus senegalensis: ?, O. Mar.

Marabou Leptoptilos crumeniferus: PB, C. Mar, May, Jun, Aug.

Hadada Bostrychia hagedash: ?, O. Aug.

Sacred Ibis Threskiomis aethiopica: ?, U. Mar, May, Jun, Aug.

African Spoonbill Platalea alba: M, O. Mar.

White-faced Tree-Duck Dendrocygna viduata: PB, U. May, Jun, Aug.

Egyptian Goose Alopochen aegyptiacus: PB, U. May, Aug.

Spur-winged Goose *Plectropterus gambensis*: PB, U. Mar, May, Jun, Aug. Knob-billed Duck *Sarkidiornis melanotos*: PB, C. Mar, May, Jun, Aug.

Pygmy Goose Nettapus auritus: PB, C. Aug.

Garganey Anas querquedula: M, C. Mar.

Black-shouldered Kite Elanus caeruleus: PB, U. May, Jun, Aug.

Black Kite Milvus migrans: PB, C. Mar, May, Jun, Aug.

River Eagle Haliaeetus vocifer: PB, U. Mar, Jun, Aug.

White-backed Vulture Gyps africanus: PB, U. Mar, May, Jun, Aug.

Ruppel's Griffon Gyps rueppellii: PB, U. Mar, May, Jun, Aug.

Lappet-faced Vulture Aegypius tracheliotus: PB, U. Mar, May, Jun, Aug.

White-headed Vulture Aegypius occipitalis: PB, O. Mar, Jun.

Bateleur Teruthopius ecaudatus: PB, C. Mar, May, Jun, Aug.

Harrier-Hawk Polyboroides typus: PB, U. Mar, May, Jun, Aug.

Montagu's Harrier Circus pygargus: M, O. Mar.

Marsh Harrier Circus aeruginosus: M, O, Mar.

Gabar Goshawk Micronisius gabar: PB, C. Mar, May, Jun, Aug.

Dark Chanting Goshawk Melierax metabates: PB, C. Mar, May, Jun, Aug.

Shikra Accipiter badius: PB, C. Mar, May, Jun, Aug.

Grasshopper Buzzard Butastur rufipennis: PB, U. May, Jun, Aug.

Lizard Buzzard Kaupifalco monogrammicus: PB, U. Jun, Aug.

Red-tailed Buzzard Buteo auguralis: PB, U. Jun, Aug.

Tawny Eagle Aquila rapax: PB, U. Mar, Jun, Aug.

Long-crested Eagle Lophaetus occipitalis: PB, U. Mar, May, Aug.

Martial Eagle Polemaetus bellicosus: ?, O. Jun, Aug.

Secretary Bird Sagittarius serpentarius: ?, O. Mar.

Kestrel Falco tinnunculus: ?, O. May.

Fox Kestrel Falco alonex: ?. O. May. Jun.

Grey Kestrel Falco ardosiaceus: PB, U, May, Jun, Aug.

Lanner Falco biarmicus: PB, U. May, Jun, Aug.

Helmeted Guineafowl Numida meleagris: B, C. Mar, May, Jun, Aug.

Stone Partridge Ptilopachus petrosus: B, C. Mar, May, Jun, Aug.

Clapperton's Francolin Francolinus clappertoni; B. C. Mar, May, Jun, Aug.

Heuglin's Francolin Francolinus icterorynchus: ?, O. May,

Black Crake Amauromis flavirostris: PB, O. May, Jun.

Black Crowned Crane Balearica pavonina: ?, U. May, Jun.

Black-bellied Bustard Eupodotis melanogaster, PB, U, May, Jun, Aug.

Lily-trotter Actophilomis africana: PB, C, May, Jun, Aug.

Black-winged Stilt Himantopus himantopus: PB, U. Mar, May, Jun, Aug.

Senegal Thick-knee Burhinus senegalensis: ?, O. Jun.

Spotted Thick-knee Burhinus capensis: ?, O. May, Jun.

Egyptian Plover Pluvianus aegyptius: PB, U. May, Jun. Wattled Lapwing Vanellus senegallus: PB, U. May, Jun.

White-headed Lapwing Vanellus albiceps; ?, O. Jun.

Spur-winged Lapwing Vanellus spinosus: ?, O. Jun.

Redshank Tringa totanus: M. O. Mar.

White-winged Black Tern Chlidonias leucopterus: M, U. May, Jun, Aug.

Four-banded Sandgrouse Pterocles quadricinctus: PB, U. May, Jun, Aug.

Bruce's Green Pigeon Treron waalia: PB, C. Mar, May, Jun, Aug.

Black-billed Wood Dove Turtur abyssinicus: PB, C. Mar, May, Jun, Aug.

Namaqua Dove Oena capensis: M, C. Mar, Jun.

Speckled Pigeon Columba guinea: PB, C. Mar, May, Jun, Aug.

Mourning Dove Streptopelia decipieus: PB, C. Mar, May, Jun, Aug.

Vinaceous Dove Streptopelia vinacea: PB, C. Mar, May, Jun, Aug.

Meyer's Parrot Poicephalus meyeri: PB, C. Mar, May, Jun, Aug.

Rose-ringed Parakeet Psittacula krameri: PB, C. Mar, May, Jun, Aug.

Jacobin Cuckoo Oxylophus jacobinus: PB, U. Jun, Aug.

Great Spotted Cuckoo Clamator glandarius: ?, U. May, Jun, Aug.

Senegal Coucal Centropus senegalensis: PB, C. Mar, May, Jun, Aug. Barn Owl Two alba: ?. O. Jun.

Scops Owl Otus scops: ?, O. Jun.

Spotted Eagle-Owl Bubo africanus: PB, U. Jun, Aug.

Pearl-spotted Owlet Glaucidium perlatum: PB, U. Mar, May, Jun, Aug.

Standard-winged Nightjar Macrodipteryx longipennis: PB, U. May, Jun. Palm Swift Cypsiurus parvus: B, C. Mar, May, Jun, Aug.

Grey-headed Kingfisher Halcyon leucocephala: PB, C. May, Jun, Aug.

Senegal Kinglisher Halcyon senegalensis: PB, C. May, Jun, Aug.

Striped Kingfisher Halcyon chelicuti: PB, U. May, Jun, Aug.

Malachite Kinglisher Corythornis cristata: PB, C. May, Jun, Aug.

Pied Kingfisher Ceryle rudis: PB, U. Mar, May, Jun, Aug.

Red-throated Bee-eater Merops bullocki: PB, U. Jun, Aug. White-throated Bee-eater Merops albicollis: M, C. May, Jun.

Little Green Bee-eater Merops orientalis: PB, C. Mar, May, Jun, Aug.

Little Green Bee-eater Merops orientatis; PB, C. Mar, May, Jun, Aug

Abyssinian Roller Coracias abyssinica: B, C. Mar, May, Jun, Aug.

Broad-billed Roller Eurystomus glaucurus: PB, C. May, Jun, Aug. Green Wood-Hoopoe Phoeniculus purpureus: PB, C. Mar, May, Jun, Aug.

Black Wood-Hoopoe Phoeniculus aterrinus: PB, C. Mar, May, Jun, Aug.

Hoopoe Upupa epops: PB, C. Mar, May, Jun, Aug.

Red-billed Hornbill Tockus erythrorynchus: PB, C. Mar, May, Jun, Aug.

Grey Hornbill Tockus nasutus: PB, C. Mar, May, Jun, Aug.

Yellow-fronted Tinkerbird Pogoniulus chrysosconus: PB, C. Mar, May, Jun, Aug.

Vieillot's Barbet Lybius vieilloti: PB, C. Mar, May, Jun, Aug.

Black-breasted Barbet Lybius rolleti: PB, U. Mar, May, Jun, Aug.

Greater Honeyguide Indicator indicator: PB, U. Jun, Aug.

Lesser Honeyguide Indicator minor: ?, O. Jun.

Grey Woodpecker Dendropicos goertae: PB, C. Mar, May, Jun, Aug.

Brown-backed Woodpecker *Picoides obsoletus*: PB, U. Mar, May, Jun, Aug. Flappet Lark *Mirafra rufocinnamomea*: PB, U. May, Jun.

Chestnut-backed Finch-Lark Eremopteryx leucotis: M, O. Mar.

Barn Swallow Hirundo rustica: M, O. Aug.

Wire-tailed Swallow Hirundo smithi: PB, U. May, Jun, Aug.

Mosque Swallow Hirundo senegaleusis: PB, U. May, Jun, Aug.

Yellow Wagtail Motacilla flava: M, C. Mar.

African Pied Wagtail Motacilla aguimp: PB, U. Mar, May, Jun, Aug.

Long-crested Helmet-Shrike Prionops plunuta: PB, U. Mar, May, Jun, Aug.

Brubru Shrike Nilaus afer. PB, U. Mar, May, Jun, Aug.

Gambian Puff-back Shrike Dryoscopus gunbensis: PB, C. Mar, May, Jun, Aug.

Black-crowned Tchagra Tchagra senegala: PB, U. Mar, May, Jun, Aug.

Gonolek Laniarius barbarus: PB, U. May, Jun, Aug.

Orange-breasted Bush-Shrike Malaconotus sulfureopectus: PB, U. Mar, May, Jun, Aug.

Long-tailed Shrike Corvinella corvina: PB, C. Mar, May, Jun, Aug.

Red-backed Shrike Lanius collurio: M, O. Mar.

Woodchat Lanius senator. M, O. Mar.

African Golden Oriole Oriolus auratus: PB, U. May, Jun, Aug. Glossy-backed Drongo Dicrurus adsimilis: B. C. Mar, May, Jun, Aug. Purple Glossy Starling Lamprotornis purpureus: PB, C. Mar, May, Jun, Aug. Lesser Blue-eared Glossy Starling Lamprotornis chloropterus: PB, U. May, Jun, Aug. Long-tailed Glossy Starling Lamprotornis caudatus: PB, C. Mar, May, Jun, Aug. Yellow-billed Oxpecker Buphagus africanus: PB, U. Mar, May, Jun, Aug. Black Magpie Ptilostomus afer. PB, C. Mar, May, Jun, Aug. Pied Crow Corvus albus: PB, U. Mar, May, Jun, Aug. White-breasted Cuckoo-Shrike Coracina pectoralis: ?, O. Jun. Red-shouldered Cuckoo-Shrike Campephaga phoenicea: PB, U. May, Jun, Aug. Common Bulbul Pycnonotus barbatus: PB, U. Jun. Aug. Spanish Wheatear Oenauthe hispanica: M. O. Mar. Rufous Scrub-Robin Cercotrichas galactotes: 7, O. May. West African Thrush Turdus pelios; PB, U. Jun, Aug. Brown Babbler Turdoides plebejus: PB, C, Mar, May, Jun, Aug. Zitting Cisticola Cisticola juncidis: PB, U. Jun, Aug. Tawny-flanked Prinia Prinia subflava: PB, C. Mar, May, Jun, Aug. Grey-backed Camaroptera Camaroptera brachyura; PB, C. Mar, May, Jun, Aug. Green-backed Eremomela Eremomela pusilla: PB, U, Mar, May, Jun, Aug. Nuthatch Warbler Sylvietta brachyura: PB, C. Mar, May, Jun, Aug. Grey-headed Batis Batis orientalis: PB, U. Mar, May, Jun, Aug. Paradise Flycatcher Terpsiphone viridis: PB, U. May, Jun, Aug. White-shouldered Black Tit Parus leucomelas: PB, U. May, Jun. Pygmy Long-tailed Sunbird Anthreptes platura: PB, U. Mar, May, Jun, Aug. Scarlet-breasted Sunbird Nectarinia senegalensis: PB, C. Mar, May, Jun, Aug. Copper Sunbird Nectarinia cuprea: PB, U. May, Jun, Aug. Beautiful Long-tailed Sunbird Nectarinia pulchella: PB, C. Mar, May, Jun, Aug. Yellow White-eye Zosterops senegalensis: PB, U. Mar, May, Jun, Aug. Rock Bunting Emberiza tahapisi: ?, O. May, Jun. Yellow-fronted Canary Serinus mozambicus: PB, U. May, Jun. Grev Canary Serinus leucopygius: ?, O. Jun.

Slender-billed Weaver Ploceus Inteolus: PB, U. May, Jun, Aug.

Vitelline Masked Weaver Ploceus velatus: PB, U. May, Jun, Aug.

Village Weaver Ploceus cucultatus: PB, C. May, Jun, Aug.

Red-billed Quelea Quelea quelea: PB, C. Mar, May, Jun, Aug.

Yellow-crowned Bishop Euplectes afer. PB. U. Aug.

Fire-crowned Bishop Euplectes hordeaceus: PB, U. Aug.

Red Bishop Euplectes orix: PB, C. Aug.

Sparrow-Weaver Plocepasser supercilliosus: PB, U. Mar, May, Jun, Aug. Grey-headed Sparrow Passer griseus: PB, C. Mar, May, Jun, Aug.

Scaly-fronted Weaver Sporopipes frontalis: PB, U. Mar, May, Jun, Aug.

Pin-tailed Whydah Vidua macroura: PB, U. Mar, May, Jun, Aug.

Senegal Indigo-Finch Vidua chalybeata: PB, O. Aug.

Broad-tailed Paradise Whydah Vidua orientalis: PB, C. Aug. Melba Finch Pytilia melba: PB, U. Mar, May, Aug. Black-rumped Waxbill Estrilda troglodytes: PB, C. Mar, May, Jun, Aug. Red-cheeked Cordon-bleu Estrilda bengala: PB, C. Mar, May, Jun, Aug. Senegal Fire-Finch Lagonosticta senegala: PB, C. Mar, May, Jun, Aug. Silverbill Lonchura mulabarica: PB, U. Mar, Jun. Bronze Mannikin Lonchura cucultata: ?, O. Jun.