

SUDAN GOVERNMENT

CATALOGUE OF
SUDAN BIRDS

BASED ON THE COLLECTION IN THE
SUDAN GOVERNMENT MUSEUM
(NATURAL HISTORY)

BY

W. WEDGWOOD BOWEN,

ASSISTANT CURATOR OF BIRDS, ACADEMY OF NATURAL
SCIENCES OF PHILADELPHIA; FORMERLY DEPUTY
CURATOR, SUDAN GOVERNMENT MUSEUM (N. H.).

PART II.—ALAUDIDÆ to FRINGILLIDÆ.

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INTRODUCTION.

It is questionable whether any introduction is called for here, since this is but the concluding half of a work the first part of which appeared in 1926. The same style and plan has been adopted as in Part I, but for the sake of convenience the notes on systematic keys and abbreviations used which were given in the introduction of that part are also included in Part II. Over four years have elapsed since Part I of this Catalogue was published. For this delay my only excuse is that its preparation has been limited entirely to my spare time, and for a great portion of this period I have been located where neither library facilities nor specimens were available to me. A collecting trip to East Africa and Angola during 1930 also further delayed the work.

Now that it is completed, perhaps a few words regarding the way this Catalogue came into being may not be without some interest. Early in 1922, soon after I joined the entomological staff of the Sudan Government, I commenced a list of Sudan birds, with short notes on the status and range of each, and to this I added from time to time "keys" adapted from standard works on African birds. This list was intended solely as an aid to my studies on the bird-life of what was then, for me, a *terra incognita*. Much travel, and a consequent lack of library facilities, prevented my completing the list, but what was lost on the one hand was gained on the other, for I gradually became familiar with the birds in life, and, through collecting specimens, I was later able to learn their names. All this time I felt the need (which every interested Official in the Sudan must feel) for a reliable, more or less popular handbook to the bird-life of the country.

On being posted to Khartoum in 1924, for service in connection with the Lord Kitchener Memorial Medical School, I was also appointed Deputy Curator of the Museum. I now found myself confronted with the problem of obtaining adequate labels for the fine mounted series of local birds on exhibition. These had to be printed, and it occurred to me that at the same time, if suitably planned, a very useful local list could be published for little additional cost. The scheme was submitted to Mr. Harold H. King, Curator of the Museum, who fully endorsed it, and after some discussion of details the present plan and style was adopted. My former list, although incomplete, was now called into service again, and, with some alteration, became the foundation of the present list.

Soon after the completion of the manuscript of the first part I tendered my resignation to the Sudan Government, but before leaving the country

I went over the remainder of the collection and took with me the data necessary for the completion of the work. Thus although published in 1931, the specimens listed herein are only those which were in the Museum in 1926, and any additions to the Museum since then are not included. I have tried to keep the nomenclature up to date as far as possible, and in Appendix A I have listed such corrections and additions as are necessary to bring Part I up to date also. The sequence of families and species does not adhere to that of the "*Systema Avium Æthiopicarum*" quite so closely as did Part I, since the greater portion of this manuscript was completed and typed before the appearance of the second part of the "*Systema*." My guide in this matter has been chiefly a manuscript list of the birds of the Belgian Congo, compiled by Dr. James P. Chapin, of the American Museum of Natural History, to whom I am much indebted.

The need for a Handbook of Sudan Birds exists now, as it did in 1922. This Catalogue claims no more than to fill a temporary gap; it is a skeleton upon which to hang such notes as may some day be gathered together and incorporated into a more complete account of the bird-life of the country. In his Preface to the first part of this Catalogue Mr. King very aptly quoted the proverb: "Half a loaf is better than no bread," and expressed the hope "that visitors and, more particularly residents, will endeavour to fill in the gaps." Only by so doing, through such an agency as *Sudan Notes and Records*, will it be possible for someone in the future to compile the much needed, more complete work. With full realization of its shortcomings the author hopes, nevertheless, that this Catalogue may be of some assistance to those who find pleasure in studying the bird-life about them.

I wish to express my thanks to Mr. Harold H. King, not only for his many helpful suggestions, but also for having piloted the manuscript through the Press. In the rather arduous task of typing and correcting the manuscript of this second part, the ready assistance of my wife has proved most helpful. For the main part of the compilation the author is alone responsible, and upon him must fall the blame for such errors and omissions as may be found.

Lastly, a very great debt of gratitude is due to Rear-Admiral Hubert Lynes, C.B., C.M.G., as it is owing to his extreme generosity that the printing of Part II of this Catalogue has been made possible.

PHILADELPHIA, PA., U.S.A.,

18th January, 1931.

A NOTE ON THE SYSTEMATIC KEYS AND ABBREVIATIONS USED IN THE TEXT.

For the purpose of identification synoptic keys, giving characters by which each species may be recognised, have been drawn up. These, in many cases, have been taken either wholly or in part from other works, and where this has been done acknowledgment is made in a footnote. While using these keys it must be remembered that not only are they wholly artificial and in many cases unscientific, but also that they apply only to the birds of the Sudan, and would be merely misleading elsewhere. Even within this country identifications made by their means should be viewed with a certain amount of reserve, since there is always the possibility, in a country of such vast dimensions, of species not previously recorded, or even of species new to science, appearing. In spite of these drawbacks it is hoped that the keys may be of some definite help to those desirous of adding to their knowledge of the bird-life around them. A few minutes study of the diagram (Plate I), showing the names of the various parts of a bird, should suffice to make clear any technical names which have been found unavoidable. The measurements given are taken as follows :—

TOTAL LENGTH—from tip of bill to tip of tail. (This is seldom made use of, since it can only be taken from a bird “in the flesh.”)

WING—from the “shoulder” or “bend of the wing” to the tip. Measured, in the case of small birds, with a ruler placed along the under side and pressed close against the wing; in big birds, by means of a tape stretched along the outside.

DIFFERENCE BETWEEN PRIMARIES AND SECONDARIES—The difference between the whole wing, as measured above, and the measurement from the “shoulder” to tip of secondaries.

BILL—Measured from base of feathering to tip, in a straight line along the culmen, or, in the case of birds with a cere, from the point of junction of cere and bill to the tip.

TARSUS and TOES—as indicated in Plate I.

An attempt has been made to indicate, as briefly as possible, the status, distribution and relative abundance of each species. Two points here seem to require explanation:—

(I) DISTRIBUTION is given in reference to the map (Plate II), which purposes to represent, as far as possible, natural avifaunal districts. In its main divisions (indicated by the broad red lines) this map is, except for modifications in two points, a repetition of a small portion of the Avifaunal Map of the Ethiopian Region, as propounded by Mr. J. P. Chapin (*American Naturalist*, Vol. LVII, No. 649) and modified slightly by Admiral Lynes (*Ibis*, 1925, p. 761, and 1926, Pl. VIII). The points of difference are:—

(a) The extension northwards of the Sudanese Arid District to include the Nile Valley as far as Halfa. This, I think, is justified by the information and material collected by Mr. H. H. King in Dongola Province.

(b) The exclusion, from the Sudanese Savana District, of a large tract of land known locally as the "Sudd." This is a flat, treeless plain, the greater part of which consists of permanent papyrus swamp, the remainder, in summer, swampy and covered by impenetrable tall grass is, in winter, a bare, inhospitable, sun-baked plain. Whereas a few birds (*Balæniceps* and some marsh-owls and *Cisticolæ*) might be said to be characteristic, its chief distinction from the surrounding savana lies in its almost complete absence of bird-life. On the map I have indicated it by a broken line because, although from the narrow viewpoint necessarily taken here in dealing with a small portion of the continent, it is of some importance, from the broader aspect with which alone Mr. Chapin was concerned, the separation of it from the surrounding savana would be as superfluous as the separation of Lake Victoria from its enclosing East African Highland District, and both must, to my mind, be regarded rather as patches of neutral ground within each district than as independent districts or sub-districts.

As was emphasised by Mr. Chapin, the drawing of lines separating one district from another is purely arbitrary, since, in Africa where there are few natural boundaries, each district grades imperceptibly into the one next to it, and many species will seemingly transgress the limits laid down for them. "A broad band of colour," as Mr. Chapin explains, "fading imperceptibly towards its edges, might carry a truer picture of actual changes."

(II) RELATIVE ABUNDANCE. The following scale has been adopted :—

rare.
not common.
fairly common.
common.
very common.
abundant.

In furnishing the data of the specimens in the Sudan Government Museum (N.H.) collection, abbreviations have been used where possible, viz. :—

An asterisk (*) placed before the S.G.M. number signifies that specimen is a topographical specimen to which reference is made in Appendix B, p. 119.

The usual sex signs and abbreviations have been used, viz. :—

♂ = male. nestl. = nestling.
♀ = female. T.E. or O.E. = testes or ovaries enlarged.
o? = sex not known. T.S.E. or O.S.E. = testes or ovaries slightly
j = juvenile. enlarged.

Against the name of each locality is indicated the Province in which it is situated. The latter names, however, the abbreviations of which are shown below, refer to the Province names and boundaries in use in 1926 when Part I of this Catalogue was published :—

Ber. ... Berber Province.
B.G. ... Bahr el Ghazal Province.
B.N. ... Blue Nile Province.
Dar. ... Darfur Province.
Don. ... Dongola Province.
Fung ... Fung Province.
Hal. ... Halfa Province.
Kas. ... Kassala Province.
Kh. ... Khartoum Province.
Kor. ... Kordofan Province.
Mon. ... Mongalla Province.
R.S. ... Red Sea Province.
U.N. ... Upper Nile Province.
N.M. ... Nuba Mountains Province.
W.N. ... White Nile Province.

The Collector's name is abbreviated as follows :—

A. C.	...	Mr. Abel Chapman.
A. L. B.	...	Mr. A. L. Butler.
A. S.	...	Archdeacon A. Shaw.
B. W. W.	...	Mr. B. W. Whitfield.
C. C.	...	Major Cuthbert Christy, R.A.M.C. (T.F.).
E. H. M.	...	Mr. E. H. Macintosh.
G. A.	...	Mr. G. Aylmer.
G. F. M.	...	Mr. G. F. March.
H. B. J.	...	Mr. H. B. Johnston.
H. H. K.	...	Mr. H. H. King.
H. C. B.	...	Capt. H. C. Brocklehurst.
H. L.	...	Rear-Admiral Hubert Lynes, C.B., C.M.G.
H. W. B.	...	Mr. H. W. Bedford.
J. E. M. M.	...	Mr. J. E. M. Mellor.
J. H. M.	...	Mr. J. H. Miller.
J. H. R. Y.	...	Mr. J. H. R. Yardley.
J. N. C.	...	Mr. J. N. Cameron.
J. S. H.	...	Major J. Stephenson-Hamilton.
J. W. C.	...	Mr. J. W. Cowland.
M. H.	...	Mr. Marshall Holmes.
N. G. H.	...	Capt. N. G. Halhed.
P. M. L.	...	Major P. M. Larken.
R. C.	...	Mr. R. Cottam.
R. G. A.	...	Major R. G. Archibald.
R. K. W.	...	Mr. R. K. Winter.
R. S. G.	...	Mr. R. S. Gibson.
V. P. W.	...	Mr. V. P. Walley.
W. E. G.	...	Mr. W. E. Giffard.
W. H. M. P.	...	Capt. W. H. M. Pollen, M.C.
W. P. L.	...	Mr. W. P. Lowe.
W. R.	...	Mr. W. Ruttledge.
W. W. B.	...	Mr. W. W. Bowen.

The Taxidermist's name is indicated in brackets, thus :—

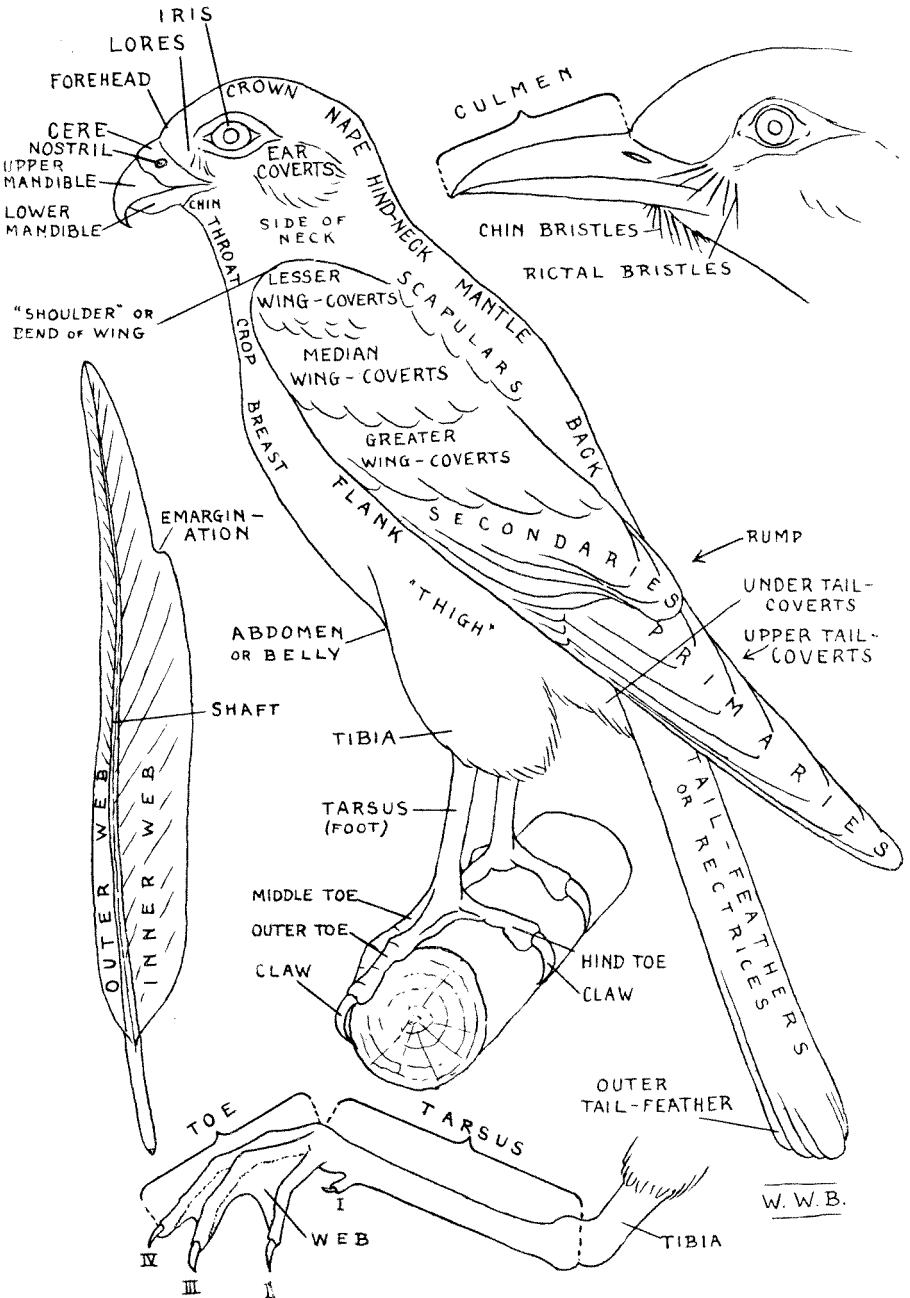
(A. L. B.)	...	Mr. A. L. Butler.
(Sheals)	...	Mr. J. Sheals, taxidermist, Belfast.
(R. C.)	...	Mr. R. Cottam.

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PLATE I.

TOPOGRAPHY OF A BIRD SHOWING THE TERMS USED IN THIS CATALOGUE.



CATALOGUE OF SUDAN BIRDS.

Part II.

PASSERIFORMES.

KEY TO FAMILIES.†

- | | | | |
|-----|---|--|---|
| 1. | { | Tarsus rounded posteriorly and divided into scutes | 2 |
| | { | Tarsus ridged posteriorly and not scutellated | 4 |
| 2. | { | Bill strongly hooked at tip; hind claw normal | 3 |
| | { | Bill not hooked at tip; hind claws more or less straight and elongated | <i>Alaudidæ</i> , p. 13. |
| 3. | { | First primary shorter than the secondaries | <i>Laniidæ</i> (part), p. 61. |
| | { | First primary longer than the secondaries | <i>Prionopidæ</i> (part), p. 69. |
| 4. | { | First primary rudimentary and hidden; outermost obvious primary more than half as long as the next, often the longest. "Nine primaried" | 5 |
| | { | First primary obvious, though sometimes small. "Ten primaried" | 8 |
| 5. | { | Longest primary more than twice as long as longest secondary | <i>Hirundinidæ</i> , p. 57. |
| | { | Longest primary less than twice as long as longest secondary | 6 |
| 6. | { | Bill short, thick and more or less conical | { <i>Fringillidæ</i> , p. 106.
<i>Ploceidæ</i> (part) ‡. |
| | { | Bill thin and slender | 7 |
| 7. | { | A conspicuous white ring around eye | <i>Zosteropidæ</i> , p. 78. |
| | { | No white ring around eye | <i>Motacillidæ</i> , p. 19. |
| 8. | { | Larger, wing over 310 mm. (except <i>Philostomus</i> , with wing over 150 mm.); nostrils entirely covered by stiffened feathers | <i>Corvidæ</i> , p. 72. |
| | { | Smaller, wing mostly under 150 mm. | 9 |
| 9. | { | No obvious rectal bristles | 10 |
| | { | Rectal bristles conspicuous | 16 |
| 10. | { | Bill short, thick and more or less conical | 11 |
| | { | Bill not conical | 12 |
| 11. | { | Larger, wing over 110 mm. | <i>Bubalornithidæ</i> , p. 83. |
| | { | Smaller, wing under 110 mm. | <i>Ploceidæ</i> (part), p. 84. |

†—Compiled from various sources.

‡—The sub-family *Passerinae*, which is now usually regarded as belonging to the *Ploceidæ* and not to the *Fringillidæ*, is for reasons of simplicity worked in with the *Fringillidæ* in the key to the species.

12. { Bill long, slender and curved downwards 13
 { Bill not long and slender, nor curved downwards 14
13. { Tail-feathers stiffened *Certhiidae*, p. 71.
 { Tail-feathers not stiffened *Nectariniidae*, p. 79
14. { Nostrils hidden by feathers *Paridae*, p. 70.
 { Nostrils exposed 15
15. { Bill red, or red and yellow *Buphagidae*, p. 78.
 { No red on bill *Sturnidae*, p. 73.
16. { Bill strongly hooked; upper mandible toothed and notched 17
 { Bill not strongly hooked; at most the tip slightly decurved 19
17. { Tail forked *Dicruridae*, p. 61.
 { Tail not forked 18
18. { Head crested; a series of small wattles around eye *Prinonopidae*, p. 69.
 { Head not crested; no eye-wattles *Laniidae* (part), p. 61.
19. { Plumage mostly bright yellow or olive yellow *Oriolidae*, p. 71.
 { Plumage not mostly yellow or olive yellow 20
20. { Rump-feathers with stiffened shafts *Campephagidae*, p. 52.
 { Rump-feathers not stiffened 21
21. { Nostrils covered more or less with bristles *Muscicapidae*, p. 53.
 { Nostrils not covered with bristles 22
22. { Plumage of young like that of adult female, but paler † 23
 { Plumage of young like that of adult female, but brighter *Turdidae* (*Sylvinae*), p. 31.
 { Plumage of young spotted above and below *Turdidae* (*Turdinae*), p. 44.
23. { Legs and feet strong; tarsi always exceeding in length the bill at the gape *Timaliidae*, p. 24.
 { Tarsi shorter, never exceeding the length of the bill at the gape *Pycnonotidae*, p. 23.

†—No general characters suitable for distinguishing these three remaining families in a key exist. All three are therefore treated together in the key to the family *Turdidae* on page 26.

Order - - **PASSERIFORMES.**

Sub-Order **OSCINES.**

Family **ALAUDIDÆ.**

KEY TO SPECIES.†

- | | | | |
|-----|---|--|---|
| 1. | { | Wing of ten primaries, the first a
bastard primary 2 | |
| | { | Wing of nine primaries only, the
bastard primary being absent ... | <i>Calandrella brachydactyla</i> , 393. |
| 2. | { | Bill long and slender, culmen longer
than the middle toe with claw | <i>Alæmon alaudipes</i> , 386. |
| | { | Bill not abnormally long and slender | 3 |
| 3. | { | Nostrils exposed 4 | |
| | { | Nostrils hidden by plumelets ... | 11 |
| 4. | { | Shortest secondary falls short of tip of
wing by less than the length of the
tarsus 5 | |
| | { | Shortest secondary falls short of tip
of wing by the length of the tarsus,
or more | <i>Pinarocorys erythropygia</i> , 385. |
| 5. | { | With bars on the upper tail-coverts ;
wing less than 3.5 inches 6 | |
| | { | No bars on upper tail-coverts ... | 7 |
| 6. | { | Upper parts less rufous and very
strongly barred | <i>Mirafra fischeri</i> , 382. |
| | { | Upper parts more rufous and scarcely
barred | <i>Mirafra rufocinamomea</i> , 384. |
| 7. | { | Larger ; wing over 3.7 inches ... | 8 |
| | { | Smaller ; wing under 3.5 inches ... | 9 |
| 8. | { | Tail mostly black, except the central
feathers, which are uniform cinna-
mon-brown | <i>Mirafra rufa</i> , 383. |
| | { | Tail dusky brown with sandy edges
to the feathers | <i>Mirafra africana</i> , 381. |
| 9. | { | Rufous on primaries entirely crosses
a portion of both webs of some of
the feathers | <i>Mirafra cordofanica</i> , 380. |
| | { | Rufous on primaries never crosses the
inner webs and very seldom the
outer webs | 10 |
| 10. | { | Tail with the shafts of the penultimate
feathers dark and the white pattern
smaller | <i>Mirafra cantillans</i> , 378. |
| | { | Tail with the shafts of the penultimate
feathers white and the white pattern
larger... .. | <i>Mirafra albicauda</i> , 379. |
| 11. | { | Sexes extremely dissimilar in colour-
ing ; bill finch-like 12 | |
| | { | Sexes alike in plumage ; bill not
finch-like | 13 |

†—After Shelley, "Birds of Africa."

12. { Back pale sandy brown; forehead
of male white *Eremopterix nigriceps*, 395.
Back rich cinnamon; forehead of
male black, like the rest of the top
of the head *Eremopterix leucotis*, 394.
13. { Upper parts uniform sandy or ashy ... 14
Upper parts mottled with dark
centres to the feathers 15
14. { Dark portion of tail confined to a
triangular pattern on the terminal
half; breast pale buff *Ammomanes cinctura*, 387.
Dark portion of tail not confined to a
triangular pattern restricted to
the end half of the tail *Ammomanes deserti*, 388.
15. { Bastard primary longer than the
culmen 16
Bastard primary shorter than the
culmen *Melanocorypha bimaculata*, 392.
16. { Top of head more crested; bill
slighter 17
Top of head less crested; bill rather
stout *Eremalauda durni*, 391.
17. { Crest longer *Galerida cristata*, 389.
Crest shorter *Heliocorys modesta*, 390.

378. CHAD SINGING BUSH-LARK.

Mirafra cantillans chadensis Alex.

Resident—arid (acacia-grass)—common.

379. NORTHERN WHITE-TAILED BUSH -LARK.

Mirafra albicauda Reichw.

Resident—savana and arid (acacia-grass)—common.

380. KORDOFAN BUSH-LARK.

Mirafra cordofanica Strickl.

Resident—arid (west)—rare.

381. DARFUR RUFOUS-NAPED LARK.

Mirafra africana kurræ Lynes.

Resident—Jebel Marra (above 5,000 ft.)—fairly common.

382a. FLAPPET LARK.

Mirafra fischeri fischeri (Reichw.).

Resident—savana III and IV—fairly common.

MOUNTED.

S.G.M. 1415, ♂, 1485, ♀, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

382b. SOBAT FLAPPET LARK.

Mirafra fischeri sobatensis Lynes.

Resident—only known from the Upper Nile near Malakal.

382c. DARFUR FLAPPET LARK.

Mirafra fischeri furensis Lynes.

Resident—western Darfur—common.

383. RUSTY BUSH-LARK.

Mirafra rufa Lynes.

Resident—arid (acacia-grass) west—common.

384. CINNAMON BUSH-LARK.

Mirafra rufocinnamomea (Salvad.).

Resident—savana—rare.

385. RED-TAILED BUSH-LARK.

Pinarocorys erythropgyia (Strickl.).

Resident—savana and arid (acacia-grass)—very common.

MOUNTED.

S.G.M. 1499, ♀, Kajo Kaji (Mon.), Mar., 1914, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 594, ♂, El Obeid (Kor.), Aug., 1921, J.E.M.M.

386a. SUDAN HOPOE-LARK.

Alæmon alaudipes meridionalis (Brehm.).

Resident—arid (scrub)—common.

SKINS.

*S.G.M. 589, ♀, 590, ♂, 591, ♂, 592, ♂, 593, ♀, Abu Fatma (Don.), Nov., 1920, H.H.K.

S.G.M. 2583, ♀, 2584, ♂, 2585, ♂, Atbara (Ber.), July, 1924, W.W.B.

386b. RED SEA HOPOE-LARK.

Alæmon alaudipes desertorum (Stanl.).

Resident—arid (Red Sea)—common.

SKINS.

*S.G.M. 966, ♂, 967, ♂, 968, ♂, Suakin (R.S.), June, 1923, W.W.B.

387. BLACK-TAILED SAND-LARK.

Ammomanes cinctura arenicolor (Sund.).

Resident—arid—fairly common.

SKINS.

*S.G.M. 974, ♀, Abu Fatma (Don.), Nov., 1920, H.H.K.

388a. SAND-LARK.

Ammomanes deserti deserti (Licht.).

Resident—arid (desert and thin scrub)—fairly common.

SKINS.

*†S.G.M. 867, ♀, Abu Fatma (Don.), Oct., 1922, H.H.K.

388b. SUDAN SAND-LARK.

Ammomanes deserti erythrochroa Reichw.

Resident—arid (acacia-grass)—common.

388c. ERITREAN SAND-LARK.

Ammomanes deserti samharensis Shelley.

Resident—arid (Red Sea)—common.

389a. NIGERIAN CRESTED LARK.

Galerida cristata alexanderi Neum.

Resident—arid (West Darfur)—common.

†—This specimen was identified in the British Museum. It comes from near the type locality of the following subspecies, however, and further material may show that all Dongola specimens should be referred to the latter, rather than to the present race.

389b. SUDAN CRESTED LARK.

Galerida cristata isabellina Bp.

Resident—arid (acacia-grass)—abundant.

MOUNTED.

S.G.M. 1102, ♂, 1103, ♀, Khartoum, Jan. and Feb., 1913, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 2112, ♂, 2246, ♂, 2276, ♂ j, 2279, ♂, Wad Medani (B.N.), Aug. and Nov., 1923, H.W.B.

*S.G.M. 979, ♂, 981, ♀, Wad Medani (B.N.), Oct. and Nov., 1919, H.W.B.

*S.G.M. 2339, ♂, 2349, ♀, Wad Medani (B.N.), Nov., 1923, W.W.B.

†S.G.M. 2586, ♂, 2587, ♂, Atbara (Ber.), Aug., 1924, W.W.B.

†S.G.M. 2588, ♂, 2589, ♀, Kitiab (Ber.), Nov., 1924, W.W.B.

†S.G.M. 600, ♂, Zeidab (Ber.), Mar., 1921, H.W.B.

389c. DONGOLA CRESTED LARK.

Galerida cristata altirostris Brehm.

Resident—arid (scrub)—abundant.

SKINS.

*S.G.M. 596, ♀, El Arian (Don.), Oct., 1920, H.H.K.

*S.G.M. 597, ♂, Tangassi (Don.), Oct., 1920, H.H.K.

*S.G.M. 598, ♂ ♀, Argo I. (Don.), Nov., 1920, H.H.K.

*S.G.M. 599, ♂, Sherifa (Don.), Nov., 1921, H.H.K.

*S.G.M. 963, ♀, Tokar (R.S.), May, 1923, W.W.B.

*S.G.M. 964, ♂, 965, ♀, Suakin (R.S.), June, 1923, W.W.B.

S.G.M. 2594, ♀, 2595, ♂, 2596, ♀, Suakin (R.S.), Oct., 1924, W.W.B.

S.G.M. 2591, ♂, 2592, ♂ ♀, 2593, ♂, Erkowit (R.S.), Aug.—Sept., 1924, W.W.B.

S.G.M. 3240, ♂, 3241, ♀, Khor Hanoyeit (R.S.), Mar., 1926, H.W.B.

390a. SUN-LARK.

Heliocorys modesta modesta (Heugl.).

Resident—savana III and IV†—fairly common.

MOUNTED.

S.G.M. 1417, ♂, 1418, ♂, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 595, ♀, Wau (B.G.), July—Aug., 1916, C.C.

390b. NIGERIAN SUN-LARK.

Heliocorys modesta giffardi Hartert.

Resident—Darfur—fairly common.

391. DUNN'S LARK.

Eremalauda dunnii Shelley.

Resident—arid (scrub) west—fairly common.

†—Recorded also at a lighthouse near Port Sudan.

‡—Specimens from Berber Province are usually more or less intermediate between this and the following race. According to Lynes (Ibis, p. 698, 1924) birds from Darfur and Kordofan are typical and constant, and intermediate specimens occur between (about) Berber and Sennar (Lat. 18° to 14° N.).

392. EASTERN CALANDRA LARK.

Melanocorypha bimaculata (Ménétr.).

Winter visitor—arid—common.

MOUNTED.

S.G.M. 1116, ♂, Khartoum, Jan., 1911, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 982, ♀, Wad Medani (B.N.), Nov., 1919, H.W.B.

393a. SHORT-TOED LARK.

Calandrella brachydactyla brachydactyla (Leis.).

Winter visitor—arid—abundant.

MOUNTED.

S.G.M. 1104, ♀, 1106, ♂, Khartoum, Dec., 1912, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 984, ♀, 2296, ♂, Wad Medani (B.N.), Nov., 1919, and Nov., 1923, H.W.B.

S.G.M. 2597, ♂, Erkowit (R.S.), Sept., 1924, W.W.B.

S.G.M. 2598, ♂, Sinkat (R.S.), Sept., 1924, W.W.B.

393b. PALESTINE SHORT-TOED LARK.

Calandrella brachydactyla hermonensis Tristr.

Winter visitor—arid—fairly common.

393c. EASTERN SHORT-TOED LARK.

Calandrella brachydactyla longipennis (Eversm.).

Winter visitor—arid—not common.

394a. CHESTNUT-BACKED SPARROW-LARK.

Eremopterix leucotis leucotis (Stanl.).

Resident—savana—common.

MOUNTED.

S.G.M. 1376, ♂, Mongalla (Mon.), Feb., 1915, A.L.B. (A.L.B.).

394b. SENEGAL CHESTNUT-BACKED SPARROW-LARK.

Eremopterix leucotis melanocephala (Licht.).

Resident—arid—very common.

MOUNTED.

S.G.M. 1105, ♂, 1107, ♀, Khartoum, Jan.—Feb., 1913, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 986, ♀, 988, ♂, Wad Medani (B.N.), Oct., 1919, H.W.B.

*S.G.M. 2120, ♂, 2330, ♀, 2336, ♂, 2402, ♂, 2403, ♀, Wad Medani (B.N.), Aug. and Nov., 1923, H.W.B.

395a. SUDAN WHITE-FRONTED SPARROW-LARK.

Eremopterix nigriceps albifrons (Sund.).

Resident—arid (except Red Sea coast)—common.

MOUNTED.

S.G.M. 1356, ♂ j, Fatasha (Kor.), Nov., 1914, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 2581, ♂, Gendettu (Ber.), July, 1924, W.W.B.

*S.G.M. 2582, ♀, Atbara (Ber.), July, 1924, W.W.B.

395b. SOMALI WHITE-FRONTED SPARROW-LARK.

Eremopterix nigriceps melanauchen (Cab.).

Resident—arid (Red Sea coast)—common.

SKINS.

*S.G.M. 961, ♀, 962, ♂ j, 970, ♂, Tokar (R.S.), June, 1923, W.W.B.

*S.G.M. 969, ♂, Suakin (R.S.), June, 1923, W.W.B.

S.G.M. 3242, ♂, 3243, ♂, 3244, ♀, 3245, ♀, 3246, ♂, 3247, ♀, Khor Hanoyet (R.S.), Mar.—Apr., 1926, H.B.J.

Family MOTACILLIDÆ.

KEY TO SPECIES.

- | | | | |
|----|---|---|----------------------------------|
| 1. | { | Underparts pale brown, more or less spotted or streaked | 2 |
| | | Underparts mostly bright yellow | 6 |
| | | Underparts white | 8 |
| 2. | { | Outer web of penultimate tail-feather largely white | 3 |
| | | Penultimate tail-feather with a triangular white tip only | 4 |
| | | Penultimate tail-feather wholly dark, or with only a very narrow paler edge | 5 |
| 3. | { | Head and back boldly blotched and streaked | <i>Anthus richardi</i> , 398. |
| | | Head streaked, back more or less uniform | <i>Anthus campestris</i> , 396. |
| 4. | { | Throat of adult reddish buff; breast and flanks heavily streaked; hind claw very long | <i>Anthus rufogularis</i> , 401. |
| | | Throat whitish buff; breast streaked, flanks uniform, or only finely streaked; hind claw short and rather curved | <i>Anthus trivialis</i> , 400. |
| 5. | { | Outermost tail-feather brown, only slightly paler than the rest; upperparts uniform olive brown | <i>Anthus leucophrys</i> , 399. |
| | | Outermost tail-feather with a yellowish buff or buffish white outer web, contrasting with the darker brown inner web; upperparts indistinctly blotched | <i>Anthus sordidus</i> , 397. |

- | | | | | |
|----|---|---|---|---------------------------------|
| 6. | { | Upperparts brown with blackish streaks; a black band across chest | } | <i>Macronyx croceus</i> , 402. |
| | | Upperparts uniform; no black band on chest | } | 7 |
| 7. | { | Upperparts greenish yellow; throat yellow | } | <i>Budytes flavus</i> , 406. |
| | | Upperparts grey; throat black or buffy brown | } | <i>Motacilla cinerea</i> , 405. |
| 8. | { | Throat and chest black | } | <i>Motacilla alba</i> , 403. |
| | | Throat white, a black band across chest | } | <i>Motacilla aguimp</i> , 404. |

396. TAWNY PIPIT.

Anthus campestris campestris (Linn.).

Winter visitor—throughout—common.

MOUNTED.

S.G.M. 1358, ♂, Omdurman (Kh.), Nov., 1914, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 576, ♂, Komi I. (Don.), Oct., 1920, H.H.K.

*S.G.M. 863, ♂, Abu Fatma (Don.), Oct., 1922, H.H.K.

*S.G.M. 572, ♂, 575, ♂, Zeidab (Ber.), Mar., 1921, H.W.B.

*S.G.M. 990, ♀, Wad Medani (B.N.), Nov., 1919, H.W.B.

*S.G.M. 2463, ♂, Rahad R. (B.N.), Mar., 1924, W.W.B.

*S.G.M. 2599, ♀, Erkowit (R.S.), Sept., 1924, W.W.B.

397a. LONG-BILLED PIPIT.

Anthus sordidus sordidus Rüpp.

Resident—Red Sea hills—fairly common.

397b. DARFUR LONG-BILLED PIPIT.

Anthus sordidus jebelmarra Lynes.

Resident—Darfur (Jebels)—common.

398a. ABYSSINIAN RICHARD'S PIPIT.

Anthus richardi cinnamomeus Rüpp.

Resident—savana—not common.

MOUNTED.

S.G.M. 1467, ♀, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

398b. BANSO MOUNTAINS PIPIT.

Anthus richardi lynesei Bann. & Bates.

Summer visitor—Darfur (and Kordofan ?)—fairly common.

SKINS.

†S.G.M. 577, ♂, El Obeid (Kor.), Aug., 1921, J.E.M.M.

†—As there is no material available for comparison this identification is only tentative.

399. CAMEROON PLAIN-BACKED PIPIT.

Anthus leucophrys zenkeri Neum.

Resident—savana—common.

MOUNTED.

S.G.M. 1343, ♂, Mongalla (Mon.), July, 1914, A.L.B. (A.L.B.).

S.G.M. 1483, ♂, 1484, ♀, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

S.G.M. 998, ♀, 999, ♀, Kajo Kaji (Mon.), Jan. and Mar., 1917, J.H.M.

400. TREE PIPIT.

Anthus trivialis trivialis (Linn.).

Winter visitor—throughout—common.

MOUNTED.

S.G.M. 1450, ♀, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 578, ♂, 579, ♂, Yei (Mon.), Nov., 1915, C.C.

*S.G.M. 2291, ♀, Wad Medani (B.N.), Oct., 1923, H.W.B.

*S.G.M. 2840, ♂, 2841, ♂, 2842, o ?, Erkwit (R.S.), Aug., 1924, W.W.B.

401. RED-THROATED PIPIT.

Anthus rufogularis Brehm.

Winter visitor—throughout—abundant.

MOUNTED.

S.G.M. 1098, ♂, Khartoum, Jan., 1913, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 587, ♂, Komi I. (Don.), Oct., 1920, H.H.K.

*S.G.M. 588, ♂, Khandak (Don.), Oct., 1920, H.H.K.

*S.G.M. 584, ♀, 585, ♀, 586, ♂, Argo (Don.), Dec., 1920, W.E.G.

*S.G.M. 571, ♂, 573, ♂, 574, ♂, 583, ♂, Zeidab (Ber.), Mar., 1921, H.W.B.

*S.G.M. 991, ♂, 992, ♀, 995, ♀, 996, ♂, 997, o ?, Wad Medani (B.N.), Oct.—
Nov., 1919, H.W.B.

*S.G.M. 2293, ♀, 2248, ♂, 2258, ♂, 2290, ♂, Wad Medani (B.N.), Oct.—Nov.,
1923, H.W.B.

*S.G.M. 580, ♂, 581, ♀, 582, ♀, Khartoum, Oct., 1921, R.C.

402. YELLOW-THROATED LONG-CLAW.

Macronyx croceus croceus (Vieill.).

Resident—savana III and IV—common.

MOUNTED.

S.G.M. 1096, ♂, 1097, ♂, Mongalla, May, 1909, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 1623, ♂, 1624, ♂, 1625, ♀, 1626, ♂, 1627, ♀, 1628, ♂, 1630, ♀, Kajo Kaji
(Mon.), Jan.—Apr., 1917, J.H.M.

*S.G.M. 567, ♂, 569, ♂, 570, ♀, Yei (Mon.), Dec., 1915, C.C.

403. WHITE WAGTAIL.

Motacilla alba alba Linn.

Winter visitor—throughout—abundant.

MOUNTED.

S.G.M. 1101, ♂, Khartoum, Feb., 1913, A.L.B. (A.L.B.).

S.G.M. 1607, ♂, 1608, ♀, Khartoum, Mar., 1922, R.C. (R.C.).

SKINS.

*S.G.M. 555, ♂, Komi I. (Don.), Oct., 1922, H.H.K.

*S.G.M. 2404, ♂, Wad. Medani (B.N.), Oct., 1923, H.W.B.

404. AFRICAN PIED WAGTAIL.

Motacilla aquimp vidua Sundev.

Resident—throughout (rocky rivers)—common locally.

MOUNTED.

S.G.M. 1297, ♂, 1298, ♂, Mongalla (Mon.), Sept., 1914, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 554, ♂, Selusi (Don.), Nov., 1920, H.H.K.

S.G.M. 2835, ♀, 2836, ♀, 2838, ♀, 2839, ♂, Atbara (Ber.), July, 1924, W.W.B.

405. GREY WAGTAIL.

Motacilla cinerea cinerea Tunst.

Passage migrant—throughout—not common.

406a. BLUE-HEADED YELLOW WAGTAIL.

Budytes flavus flavus (Linn.).

Winter visitor—throughout—abundant.

MOUNTED.

S.G.M. 1099, ♂, Khartoum, Jan., 1913, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 556, ♂, Letti Basin (Don.), Dec., 1913, H.H.K.

*S.G.M. 564, ♂, 565, ♀, Zeidab (Ber.), Mar.—Apr., 1921, H.W.B.

*S.G.M. 562, ♂, Wad Medani (B.N.), Oct., 1919, H.W.B.

*S.G.M. 2118, ♀, Wad Medani (B.N.), Sept., 1923, H.W.B.

*S.G.M. 557, ♂, 559, ♂, Khartoum, Sept., 1921, R.C.

*S.G.M. 560, ♀, Yambio (B.G.), Mar., 1916, C.C.

406b. RUMANIAN BLUE-HEADED YELLOW WAGTAIL.

Budytes flavus dombrowskii (Tschusi).

Winter visitor—arid—common.

406c. BLACK-HEADED YELLOW WAGTAIL.

Budytes flavus feldleg (Michah.).

Winter visitor—throughout—very common.

MOUNTED.

S.G.M. 1611, ♂, Zeidab (Ber.), Mar., 1921, H.W.B. (R.C.).

S.G.M. 1609, ♂, Khartoum, Mar., 1922, R.C. (R.C.).

SKINS.

*S.G.M. 563, ♂, 565, ♂, Zeidab (Ber.), Mar., 1921, H.W.B.

*S.G.M. 561, ♂, Wad Medani (B.N.), Mar., 1922, H.W.B.

*S.G.M. 2237, ♂, 2251, ♂, Wad Medani (B.N.), Sept., 1923, H.W.B.

*S.G.M. 558, ♂, Khartoum, Sept., 1921, R.C.

406d. TURKESTAN BLACK-HEADED YELLOW WAGTAIL.

Budytes flavus melanogriseus (Hom.).

Winter visitor—throughout—occasional.

406e. EASTERN YELLOW WAGTAIL.

Budytes flavus campestris (Pall.).

Winter visitor—throughout—common.

406f. GREY-HEADED WAGTAIL.

Budytes flavus thunbergi (Billberg).

Passage migrant?—recorded from Kenya Colony but not definitely from the Sudan.

406g. ASHY-HEADED WAGTAIL.

Budytes flavus cinereocapilla (Savi).

Passage migrant?—winters in Uganda, not definitely recorded from the Sudan.

Family *PYCNONOTIDÆ*.

KEY TO SPECIES.

- | | | | |
|----|---|---|---|
| 1. | { | Head sooty black, considerably darker than the rest of the body | 2 |
| | | Head not sooty black | 3 |
| 2. | { | Under tail-coverts bright yellow ... | <i>Pycnonotus tricolor</i> , 407. |
| | | Under tail-coverts not yellow ... | <i>Pycnonotus barbatus</i> , 408. |
| 3. | { | Wing 90 mm. (3.5 ins.), or longer ... | 4 |
| | | Wing 80 mm. (3.1 ins.), or shorter ... | <i>Phyllastrephus strepitans</i> , 409. |
| 4. | { | Throat yellowish, differing in colour from the rest of the underparts ... | <i>Antimastillas flavicollis</i> , 410. |
| | | Throat, as well as entire underparts, yellowish | <i>Pyrrhurus scandens</i> , 411. |

407. YELLOW-VENTED BULBUL.

Pycnonotus tricolor minor Heugl.

Resident—savanna—common.

MOUNTED.

S.G.M. 1344, ♂, Mongalla (Mon.), June, 1914, A.L.B. (A.L.B.).

S.G.M. 1544, ♀, Torit (Mon.), Sept., 1918, J.H.R.Y. (R.C.).

SKINS.

*S.G.M. 358, ♀, 359, ♀, Yei (Mon.), Nov., 1915, C.C.

408. EGYPTIAN BULBUL.

Pycnonotus barbatus arsinoë (Licht.).

Resident—arid—common.

MOUNTED.

S.G.M. 1086, ♀, Khartoum, Jan., 1913, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 2009, ♂, Abba Is. (W.N.), Aug., 1919, J.S.H.

S.G.M. 3239, ♂, Khor Hanoieit (R.S.), Apr., 1926, H.B.J.

409. EAST AFRICAN SCRUB-BULBUL.

Phyllastrephus strepitans (Reichw.).

Resident—savana III—not common.

410. GABOON YELLOW-THROAT.

Antimastillas flavicollis flavigula (Cab.).

Resident—savana IV—fairly common.

SKINS.

*S.G.M. 356, ♂, 357, ♂, Meridi (B.G.), Jan.—Feb., 1916, C.C.

411. UELE LEAF-LOVER.

Pyrhrrurus scandens orientalis (Hartl.).

Resident—savana IV—not common.

Family *TIMALIIDÆ*.

KEY TO SPECIES.

- | | | | |
|----|---|--|--|
| 1. | { | Tail graduated; plumage reddish or yellowish sandy brown 6 | |
| | | Tail not, or only slightly, graduated; plumage not reddish or yellowish sandy 2 | |
| 2. | { | Wing 90 mm. (3.5 ins.), or longer ... 3 | |
| | | Wing 80 mm. (3.1), or shorter <i>Ptyrticus turdinus</i> , 412. | |
| 3. | { | Head mostly white 4 | |
| | | Head not white 5 | |
| 4. | { | Rump white <i>Turdoides leucopygia</i> , 416. | |
| | | Rump not white <i>Turdoides leucocephala</i> , 414. | |
| 5. | { | Underparts reddish earthy brown <i>Turdoides tenebrosa</i> , 415. | |
| | | Underparts pale greyish brown <i>Turdoides plebeja</i> , 413. | |
| 6. | { | Wing over 90 mm. (3.5 ins.) <i>Argya fulva</i> , 418. | |
| | | Wing under 90 mm. <i>Argya rubiginosa</i> , 417. | |

412. THRUSH-BABBLER.

Ptyrticus turdinus turdinus Hartl.

Resident—savana IV—rare.

SKINS.

*S.G.M. 355, ♀, Yambio (B.G.), Mar., 1915, C.C.

413a. KORDOFAN BUSH-BABBLER.

Turdoides plebeja plebeja (Cretsch).

Resident—savana I and arid (acacia-forest) west—common.

MOUNTED.

S.G.M. 1084, ♀, Jebel Kordofan (Kor.), Mar., 1914, A.L.B. (A.L.B.).

413b. NILE BUSH-BABBLER.

Turdoides plebeja cinerea Heugl.

Resident—savana I (south), III and IV—common.

MOUNTED.

S.G.M. 1289, ♂, Ukanda (B.G.), Jan., 1908, A.L.B. (A.L.B.).

S.G.M. 1540, ♀, Moruto (B.G.), Jan., 1918, J.H.R.Y. (R.C.).

SKINS.

*S.G.M. 2005, ♀, 2006, ♂, Kajo Kaji (Mon.), Jan.—Feb., 1917, J.H.M.

*S.G.M. 349, ♂, 350, ♂, Yambio (B.G.), Mar., 1916, C.C.

*S.G.M. 351, ♀, Wau (B.G.), July—Aug., 1916, C.C.

*S.G.M. 352, ♂, Yei (Mon.), Nov., 1915, C.C.

*S.G.M. 353, ♀, Meridi (B.G.), Feb., 1916, C.C.

S.G.M. 354, ♂, Yambio (B.G.), Sept., 1917—Mar., 1918, G.F.M.

S.G.M. 2961, ♂, Rejaf (Mon.), Jan., 1925, H.H.K.

414. WHITE-HEADED BUSH-BABBLER.

Turdoides leucocephala leucocephala Cretz.

Resident—savana II and arid (acacia-forest) east—fairly common.

MOUNTED.

S.G.M. 1078, ♀, Khartoum, Apr., 1913, A.L.B. (A.L.B.).

S.G.M. 1079, ♀, Lebeina, Dinder R. (B.N.), Mar., 1913, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 2411, ♂, 2412, ♀, Rahad R. (B.N.), Dec., 1923, W.W.B.

S.G.M. 2504, ♂, 2505, ♂, Rahad R. (B.N.), Mar., 1924, W.W.B.

S.G.M. 2831, ♂, Um Debeia, Atbara R. (Ber.), July, 1924, W.W.B.

415. DUSKY BUSH-BABBLER.

Turdoides tenebrosa tenebrosa (Hartl.).

Resident—savana III and IV—fairly common.

MOUNTED.

S.G.M. 1385, ♂, Lado Nyepo (Mon.), Feb., 1915, A.L.B. (A.L.B.).-

416. WHITE-RUMPED BUSH-BABBLER.

Turdoides leucopygia limbata (Rüpp.).

Resident—savana II and arid (acacia-forest) east—not common.

417. RUFOUS CHATTERER.

Argya rubiginosa rubiginosa (Rüpp.).

Resident—savana III—fairly common.

SKINS.

- S.G.M. 2959, ♀, Rejaf (Mon.), Jan., 1925, H.H.K.
- †S.G.M. 2008, ♀, Minghannan (Mon.), July, 1919, J.S.H.
- †S.G.M. 2007, ♂, Simsim (Mon.), Aug., 1919, J.S.H.

418. SUDAN FULVOUS CHATTERER.

Argya fulva acaciæ (Licht.).

Resident—arid—common.

MOUNTED.

- S.G.M. 1077, ♂, Blue Nile, June, 1913, A.L.B. (A.L.B.).

SKINS.

- *S.G.M. 348, ♀, El Obeid (Kor.), Aug., 1921, J.E.M.M.
- *S.G.M. 344, ♂, Tuti (Don.), Oct., 1920, H.H.K.
- *S.G.M. 346, ♀, 347, ♂, Timinar (Don.), Nov., 1920, H.H.K.
- *S.G.M. 875, ♀, Kerma (Don.), Oct., 1922, H.H.K.
- S.G.M. 2832, ♀, 2833, ♂, 2834, ♀, Gendettu (Ber.), Oct., 1924, W.W.B.
- *S.G.M. 957, ♂ j, Tokar (R.S.), May, 1923, W.W.B.
- S.G.M. 3007, ♂, Sinkat (R.S.), July, 1925, H.B.J.
- S.G.M. 3008, ♂, Khor Arbat (R.S.), July, 1925, H.B.J.
- S.G.M. 3009, ♀, 3010, ♂, Khor Okwat (R.S.), July, 1925, H.B.J.
- S.G.M. 3259, ♂, 3260, ♂, Khor Hanoyeit (R.S.), Mar.—Apr., 1926, H.B.J.

Family *TURDIDÆ*.

KEY TO SPECIES. ‡

- | | | | |
|----|---|--|-------------------------------|
| 1. | { | First primary large, as long as, or longer than, half the second primary | 2 |
| | | First primary small, distinctly shorter than half the second | 34 |
| 2. | { | Tail strongly graduated | 3 |
| | | Tail not, or only slightly, graduated | 16 |
| 3. | { | Only ten tail-feathers | 4 |
| | | With twelve tail-feathers | 5 |
| 4. | { | Upper parts with dark shaft-stripes to the feathers | <i>Prinia gracilis</i> , 456. |
| | | Upper parts uniform | <i>Prinia mistacea</i> , 457. |

†—These two birds are somewhat darker and were identified at the British Museum as *A. r. heuglini*, which occurs on the East African coast. Mr. King has, however, kindly sent them to me for comparison with the series in the Academy of Natural Sciences of Philadelphia, and I consider that they are merely unusually dark examples of this race, and not *heuglini*.

‡—Adapted from Reichenow, "Die Vogel Afrikas."

5. { A black maxillary stripe on either side
of the throat *Melocichla mentalis*, 459.
No black maxillary stripe 6
6. { Tail-feathers conspicuously broad ... *Schaniocola brevirostris*, 454.
Tail-feathers not conspicuously broad 7
7. { Wing-coverts bright reddish brown,
contrasting with the colour of the
back *Heliolais erythroptera*, 458.
Wing-coverts not reddish brown, nor
contrasting with the colour of the
back 8
8. { Outer tail-feathers wholly or partly
white or pale yellow 9
Without any white or pale yellow on
the outer tail-feathers 12
9. { Outer tail-feathers with a distinct
black band in front of a white tip ... *Cisticola* (see separate key on page 40)
Outer tail-feathers without a blackish
band 10
10. { Upper parts yellowish green, greenish
grey, or olive brown 11
Upper parts grey or brown; forehead
reddish brown *Apalis rufifrons*, 421.
11. { Breast yellow, rest of under parts
white *Apalis flavida*, 420.
Entire under parts yellowish cream-
colour *Phylolais pulchella*, 422.
12. { Outer tail-feathers with a blackish
band near the tip (hardly visible
from below) *Cisticola* (see separate key on page 40)
No blackish band across outer tail-
feathers 13
13. { Larger; wing over 70 mm. (2.75 ins.) 14
Smaller; wing under 70 mm. ... 15
14. { Outer tail-feathers mostly bright
reddish brown 19
Outer tail-feathers not reddish
brown *Timaliidae* (see separate key on page
24).
15. { Bases of the primaries bright reddish
brown, sharply contrasting with the
remaining blackish portions of these
feathers *Drymocichla incana*, 426.
Primaries without reddish brown
bases *Bradypterus brachypterus*, 455.
16. { General plumage blackish, often with
whitish patches on the forehead,
shoulder, or throat 43
General plumage not mostly blackish 17
17. { Outer tail-feathers entirely, or mostly,
bright reddish brown 18
Outer tail-feathers not bright reddish
brown, though occasionally dull
reddish brown 21

18. { Outer tail-feathers with a whitish tip *Erythropterygia leucophrys*, 473.
 { Outer tail-feathers without a whitish tip 19
19. { Under parts reddish brown ... 20
 { Under parts not reddish brown ... *Cichladusa guttata*, 478.
20. { Top of head white *Bessonornis niveicapilla*, 480.
 { Top of head not white *Bessonornis semirufa*, 479.
21. { Outer tail-feathers with a blackish band near the tip *Cisticola* (see separate key on page 40)
 { Outer tail-feathers without a blackish band 22
22. { Wing over 65 mm. (2.5. ins.) ... 23
 { Wing under 65 mm. 29
23. { Outer tail-feathers tipped with white *Erythropterygia leucophrys*, 473.
 { Outer tail-feathers not tipped with white 24
24. { Wing 90 mm. (3.5. ins.) or longer ... 25
 { Wing 80 mm. (3.1 ins.) or shorter ... 27
25. { Head white *Timaliidae* (see separate key on page 24).
 { Head sooty black, considerably darker than the rest of the body *Pycnonotidae* (see separate key on page 23).
 { Head neither entirely white nor sooty black 26
26. { Chin and throat not differing greatly in colour from the top of the head *Timaliidae* (see separate key on page 24).
 { Chin and throat unlike the top of the head *Pycnonotidae* (see separate key on page 23).
27. { Fourth and fifth, or fourth to sixth primaries the longest 30
 { Fifth and sixth primaries the longest 28
28. { Tail longer than the wing *Pycnonotidae* (see separate key on page 23).
 { Tail distinctly shorter than the wing *Timaliidae* (see separate key on page 24).
 { Tail slightly shorter than the wing; wing-coverts greenish *Camaroptera brevicaudata*, 419.
29. { Tail shorter than half the length of the wing *Sylvietta brachyura*, 423.
 { Tail longer than half the length of the wing 30
30. { Wing mostly, or partly, olive green ... 31
 { Wing mostly, or partly, grey or brown 32
31. { Tail distinctly graded 10 (above).
 { Tail square, or slightly rounded *Camaroptera brevicaudata*, 419.
32. { Bases of primaries bright reddish brown *Drymocichla incana*, 426.
 { Bases of primaries not bright reddish brown 33
33. { Smaller, wing under 67 mm. *Calamornis nuerensis*, 452.
 { Larger, wing over 72 mm. *Calamornis nilotica*, 451.

34. { Tail distinctly graded 35
 Tail square or rounded, never graded
 but often with the outer feathers
 distinctly shorter 37
35. { Wing over 50 mm. 36
 Wing under 50 mm. *Cisticola* (see separate key on page 40)
36. { Outermost tail-feather 30 mm., or
 more, shorter than the longest ... *Cercotrichas podobe*, 481.
 Outermost tail-feather less than 30
 mm. shorter than the longest ... 37
37. { Tail tipped with white 38
 Tail not tipped with white 45
38. { Outer tail-feathers with a broad black
 band in front of the white tip ... *Agrobates galactotes*, 443.
 Outer tail-feathers without a black
 band in front of the white tip ... 39
39. { Entire plumage, including the tail,
 black, or with white patches on the
 head, throat or wings 40
 Plumage not entirely black, with at
 least the bases of the tail-feathers
 reddish yellow 42
40. { Smaller; wing under 85 mm. ... *Pentholæa albifrons*, 484.
 Larger; wing over 85 mm. 41
41. { Plumage chiefly dark brown or
 brownish black *Myrmecocichla aethiops*, 474.
 Plumage deep black *Myrmecocichla nigra*, 475.
42. { Larger; wing over 100 mm. ... 43
 Smaller; wing under 100 mm. ... 48
43. { Outer tail-feathers reddish brown, or
 the whole plumage bluish grey ... 44
 Outer tail-feathers not reddish brown,
 nor the whole plumage bluish grey 45
44. { Outer tail-feathers blackish brown,
 like the others *Monticola solitaria*, 503.
 Outer tail-feathers reddish brown ... *Monticola saxatilis*, 504.
45. { Upper tail-coverts white, black or
 reddish brown 47
 Upper tail-coverts brown or grey ... 46
46. { Under parts spotted *Turdus philomelos*, 505.
 Under parts blackish, with whitish
 margins to the feathers *Turdus torquatus*, 506.
 Under parts uniform whitish, or pale
 yellowish *Turdus libonyanus*, 507.
47. { Outer tail-feathers entirely, or with
 at least their bases, white or reddish
 brown 48
 Outer tail-feathers without white or
 reddish brown bases 56
48. { Larger; wing over 110 mm. ... 49
 Smaller; wing under 110 mm., mostly
 under 105 mm. 50
49. { Top of head black *Thamnolea cinnamomeiventris*, 476.
 Top of head white *Thamnolea coronata*, 477.

50. { Upper tail-coverts bright reddish
brown 51
Upper tail-coverts not bright reddish
brown 55
51. { Throat black 52
Throat whitish 53
52. { Flanks grey *Phoenicurus ochruros* ♂, 483.
Flanks reddish brown *Phoenicurus phoenicurus*, ♂, 482.
53. { Outer web of third to fifth primary
emarginate *Phoenicurus phoenicurus*, ♀, 482.
Outer web of third to sixth primary
emarginate 54
54. { Lores whitish *Cercomela familiaris*, 489.
Lores dark *Phoenicurus ochruros*, ♀, 483.
55. { Throat blue 65
Throat not blue *Eanthe* (see separate key on page 48).
56. { Tail strongly graded or rounded ... 57
Tail square or only slightly rounded... 61
57. { Plumage golden or greenish; tip of
outer tail-feather white *Apalis flavida*, 420.
Plumage not golden or greenish; tip
of outer tail-feather not white ... 58
58. { Outer primary straight 59
Outer primary curved backward ... *Locustella luscinioides*, 444.
59. { Middle tail-feathers tapering towards
the tip, often almost pointed ... *Acrocephalus* (see separate key on
Middle tail-feathers not tapering ... 60 page 37).
60. { First primary as long as, or longer
than, the primary-coverts... .. *Luscinia megarhyncha*, 501.
First primary shorter than the
primary-coverts *Luscinia luscinia*, 502.
61. { Bill flattened and Flycatcher-like ... 62
Bill not flattened 65
62. { Upper parts uniform greenish or
greyish brown 63
Upper parts black, or grey spotted
with blackish 64
63. { Under parts distinctly washed with
yellowish *Hippolais icterina*, 442.
Under parts pure white, or brownish
white *Hippolais pallida*, 441.
64. { Upper tail-coverts white *Saxicola torquata*, 485.
Upper tail-coverts-brown *Saxicola rubetra*, 486.
65. { Upper tail-coverts reddish brown,
sharply contrasting with the colour
of the back 49 (above).
Upper tail-coverts coloured like the
back 66
66. { Outer tail-feathers not shorter than
the middle ones 67
Outer tail-feathers distinctly shorter
than the middle ones 70

67. { First primary shorter than the
primary-coverts *Phylloscopus sibilatrix*, 438.
First primary longer than the
primary-coverts 68
68. { Second primary longer than the
sixth *Phylloscopus trochilus*, 437.
Second primary shorter than the
sixth 69
69. { Rump not yellow like the back ;
under parts washed with yellow ... *Phylloscopus collybita*, 440.
Rump yellow like the back ; under
parts not washed with yellow ... *Phylloscopus bonelli*, 439.
70. { Wing under 60 mm. ; tip of outer
tail-feather not white 71
Wing over 60 mm. ; tip of outer
tail-feather white 72
71. { Back grey or greyish brown *Eremomela griseoflava*, 425.
Back yellowish green *Eremomela pusilla*, 424.
72. { Tail deep black, or blackish brown
with the outer feathers, or their
bases, reddish brown 73
Tail not deep black, nor with reddish
brown bases *Sylvia* (see separate key on page 33).
73. { Throat bright blue *Cyanosylvia svecica*, 550.
Throat not bright blue 74
74. { Upper parts grey *Cercomela melanura*, 487.
Upper parts brown *Cercomela scotocerca*, 488.

Sub-family SYLVIINÆ.

419a. GREY-BACKED GLASS-EYE.

Camaroptera brevicaudata brevicaudata (Cretzsch.).

Resident—arid—common.

SKINS.

*S.G.M. 2334, ♂, Wad Medani (B.N.), Sept., 1923, H.W.B.

S.G.M. 2460, ♂, Sennar (B.N.), Jan., 1924, H.W.B.

S.G.M. 2782, ♂, Erkowit (R.S.), Aug., 1924, W.W.B.

419b. ABYSSINIAN GREY-BACKED GLASS-EYE.

Camaroptera brevicaudata abessinica Zedl.

Resident—savana—common.

MOUNTED.

S.G.M. 1449, ♂, 1456, ♂, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 2042, ♂, 2043, ♀, Kajo Kaji (Mon.), Apr., 1917, J.H.M.

*S.G.M. 470, ♂, Tembura (B.G.), Apr., 1916, C.C.

S.G.M. 2044, ♀, Ionglei (U.N.), July, 1919, J.S.H.

420. CAMEROON BLACK-BREASTED BUSH-WARBLER.

Apalis flavida uamensis Reichw.

Resident—savana IV—not common.

421. RED-FRONTED BUSH-WARBLER.

Apalis rufifrons rufifrons Rüpp.

Resident—arid—fairly common.

MOUNTED.

S.G.M. 1357, ♂, Fatasha (Kh.), Nov., 1914, A.L.B. (A.L.B.).

SKINS.

S.G.M. 2769, ♂, 2770, ♀, 2771, ♀, Sinkat (R.S.), Oct., 1924, W.W.B.

S.G.M. 3017, ♀, Sinkat (R.S.), July, 1925, H.B.J.

422. BEAUTIFUL BUSH-WARBLER.

Phyllolais pulchella (Cretzsch.).

Resident—savana and arid (acacia-grass)—very common.

MOUNTED.

S.G.M. 1518, ♂, Rejaf (Mon.), Apr., 1915, A.L.B. (A.L.B.).

423a. KORDOFAN CROMBEC.

Sylvietta brachyura micrura (Rüpp.).

Resident—arid—common.

SKINS.

*S.G.M. 464, ♂, Zeidab (Ber.), June, 1921, W.E.G.

S.G.M. 2459, ♂, 2783, ♂, 2784, ♂, Rahad R. (B.N.), Mar. and Aug., 1924, W.W.B.

S.G.M. 3227, ♀, Selima (W.N.), Oct., 1925, H.H.K.

S.G.M. 3103, ♂, Talodi (N.M.), Dec., 1925, J.W.C.

423b. UGANDA CROMBEC.

Sylvietta brachyura dilutior Reichw.

Resident—savana—common.

SKINS.

*S.G.M. 2037, ♀, Kajo Kaji (Mon.), Mar., 1917, J.H.M.

*S.G.M. 463, ♂, Meridi (B.G.), Feb., 1916, C.C.

424a. SENNAR GREEN-BACKED EREMOMELA.

Eremomela pusilla elegans Heugl.

Resident—savana II—common.

MOUNTED.

S.G.M. 1284, ♂, Roseires (Fung), July, 1919, A.L.B. (A.L.B.).

SKINS.

†S.G.M. 3090, ♀, 3091, ♂, 3092, ♂, 3093, ♂, 3094, ♀, 3095, ♂, 3096, ♂, Talodi (N.M.),
Dec., 1925—Jan., 1926, J.W.C.

†—These Nuba Mountains birds are nearest this form, but show a tendency towards the following race.

424b. GHAZAL GREEN-BACKED EREMOMELA.

Eremomela pusilla canescens Antin.

Resident—savana I, III and IV—common.

MOUNTED.

S.G.M. 1442, ♂, 1471, ♀, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 465, ♂, 466, ♂, Yei (Mon.), Nov.—Dec., 1915, C.C.

*S.G.M. 467, ♀, Meridi (B.G.), Jan., 1916, C.C.

*S.G.M. 468, ♂, Mt. Baginzi (B.G.), Mar., 1916, C.C.

*S.G.M. 469, ♂, Tembura (B.G.), Apr., 1916, C.C.

*S.G.M. 2038, ♂, Opari (Mon.), Feb., 1917, J.H.M.

*S.G.M. 2039, ♂, 2040, ♀, 2041, ♂, Kajo Kaji (Mon.), Mar. and Apr., 1917, J.H.M.

424c. UBANGI GREEN-BACKED EREMOMELA.

Eremomela pusilla tessmanni Grote.

Resident—western Darfur—not common.

425a. GREY-AND-YELLOW EREMOMELA.

Eremomela griseoflava griseoflava Heugl.

Resident—savana II, and arid (acacia-forest) east—common.

MOUNTED.

S.G.M. 1285, ♀, Kamisa, Dinder R. (Fung), Dec., 1913, H.L. (A.L.B.).

425b. KORDOFAN GREY-AND-YELLOW EREMOMELA.

Eremomela griseoflava alexanderi Scl. & Praed.

Resident—savana I, and arid (acacia-forest) west—common.

426. RED-WINGED GREY WARBLER.

Drymocichla incana Hartl.

Resident—savana III and IV—not common.

MOUNTED.

*S.G.M. 1437, ♂, 1438, ♀, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

†S.G.M. 462, ♀, Meridi (B.G.), Jan., 1916, C.C.

Genus SYLVIA : KEY TO SPECIES.†

1. { Wing over 80 mm. *S. nisorisa*, 427.
 { Wing 80 mm. or less 2
2. { Secondary-coverts and inner secondaries broadly margined with reddish or cinnamon brown *S. communis*, 428.
 { Secondary-coverts and inner secondaries margined with greyish brown or sandy colour 3

†—After Reichenow, "Die Vögel Afrikas."

- | | | | |
|-----|---|--|-----------------------------------|
| 3. | { | Outer tail-feathers with broad white tips, or wholly white | 4 |
| | { | Outer tail-feathers not tipped with white | 11 |
| 4. | { | Head wholly, or partly, deep black | 5 |
| | { | Head brown or grey | 7 |
| 5. | { | Throat black | <i>S. rüppelli</i> , ♂, 430. |
| | { | Throat not black | 6 |
| 6. | { | Wing over 70 mm. | <i>S. hortensis</i> , ♂, 431. |
| | { | Wing under 65 mm. | <i>S. melanocephala</i> , ♂, 435. |
| 7. | { | Wing over 75 mm. | <i>S. hortensis</i> , ♀, 431. |
| | { | Wing under 75 mm. | 8 |
| 8. | { | Upper tail-coverts and middle tail-feathers reddish sand-colour | <i>S. nana</i> , 433. |
| | { | Upper tail-coverts and middle tail-feathers pale brown or greyish brown | 9 |
| 9. | { | Throat reddish brown | <i>S. cantillans</i> , ♂, 436. |
| | { | Throat white or claret | 10 |
| 10. | { | Under parts washed with claret, salmon or isabelline | <i>S. melanocephala</i> , ♀, 435. |
| | { | Under parts pure white, or washed with greyish brown | <i>S. cantillans</i> , ♀, 436. |
| | { | | <i>S. rüppelli</i> , ♀, 430. |
| | { | | <i>S. melanocephala</i> , ♀, 435. |
| | { | | <i>S. curruca</i> , 432. |
| 11. | { | Top of head black or reddish brown | <i>S. atricapilla</i> , 434. |
| | { | Top of head coloured like the back | 12 |
| 12. | { | Wing over 70 mm. | <i>S. borin</i> , 429. |
| | { | Wing under 70 mm. | <i>S. curruca</i> , 432. |

427. BARRED WARBLER.

Sylvia nisoria (Bechst.).

Winter visitor—throughout—common.

SKINS.

*S.G.M. 764, ♀, Khartoum, Sept., 1921, R.C.

*S.G.M. 2033, ♀, Wad Medani (B.N.), Sept., 1919, H.W.B.

428. WHITETHROAT.

Sylvia communis communis Latham.

Winter visitor—throughout—fairly common.

429. GARDEN WARBLER.

Sylvia borin (Bodd.).

Winter visitor—throughout—common.

MOUNTED.

S.G.M. 1089, ♀, Khartoum, Oct., 1913, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 2121, ♂, Wad Medani (B.N.), Sept., 1923, H.W.B.

430. RÜPPELL'S WARBLER.

Sylvia rüppelli Temm.

Winter visitor—throughout—fairly common.

MOUNTED.

S.G.M. 1354, ♂, Fatasha (Kh.), Nov., 1914, A.L.B. (A.L.B.).

431. EASTERN ORPHEAN WARBLER.

Sylvia hortensis crassirostris Cretzsch.

Winter visitor—throughout—common.

MOUNTED.

S.G.M. 1091, ♂, Khartoum, Oct., 1913, A.L.B. (A.L.B.).

432. LESSER WHITETHROAT.

Sylvia curruca curruca (Linn.).

Winter visitor—throughout—abundant.

MOUNTED.

S.G.M. 1092, ♀, Khartoum, Feb., 1913, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 404, ♀, Zeidab (Ber.), Mar., 1921, H.W.B.

*S.G.M. 403, ♂, Hag Zamar (Don.), Jan., 1921, W.E.G.

*S.G.M. 405, ♂ ?, Teiti (Don.), Oct., 1920, H.H.K.

*S.G.M. 406, ♂, Abu Fatma (Don.), Nov., 1920, H.H.K.

*S.G.M. 870, ♀, Letti (Don.), Dec., 1922, H.H.K.

S.G.M. 3101, ♀, Talodi (N.M.), Feb., 1926, J.W.C.

433. DESERT-WARBLER.

Sylvia nana nana Hemp. and Ehr.

Winter visitor—Red Sea—occasional.

434. BLACKCAP.

Sylvia atricapilla atricapilla (Linn.).

Winter visitor—throughout—fairly common.

435a. MENETRIES' SARDINIAN WARBLER.

Sylvia melanocephala mystacea Menetr.

Winter visitor—arid—occasional.

435b. BOWMAN'S SARDINIAN WARBLER.

Sylvia melanocephala momus (Hemp. and Ehr.).

Winter visitor—arid—common.

MOUNTED.

S.G.M. 1363, ♂, 1364, ♀, Fatasha (Kh.), Nov., 1914, A.L.B. (A.L.B.).

SKINS.

S.G.M. 2773, ♂, 2774, ♂, Erkowit (R.S.), Aug., 1924, W.W.B.

436. EASTERN SUBALPINE WARBLER.

Sylvia cantillans albistriata (Brehm.).

Passage migrant—throughout—not common.

437a. WILLOW-WARBLER.

Phylloscopus trochilus trochilus (Linn.).

Winter visitor—throughout—not common.

437b. EASTERN WILLOW-WARBLER.

Phylloscopus trochilus evermanni (Bonap.).

Winter visitor—throughout—common.

SKINS.

*S.G.M. 2294, ♂, Wad Medani (B.N.), Sept., 1923, H.W.B.

*S.G.M. 460, ♂, Tangassi (Don.), Oct., 1920, H.H.K.

*S.G.M. 871, ♂, Debba (Don.), Oct., 1922, H.H.K.

*S.G.M. 874, ♂, Letti (Don.), Dec., 1922, H.H.K.

S.G.M. 2785, ♀, Sinkat (R.S.), Oct., 1924, W.W.B.

438. WOOD-WARBLER.

Phylloscopus sibilatrix sibilatrix (Bechst.).

Passage migrant—throughout—common.

439. EASTERN BONELLI'S WARBLER.

Phylloscopus bonelli orientalis (Brehm.).

Winter visitor—throughout—fairly common.

440a. CHIFFCHAFF.

Phylloscopus collybita collybita (Vieill.).

Winter visitor—throughout—common.

SKINS.

S.G.M. 461, ♀, Khandak (Don.), Nov., 1920, H.H.K.

S.G.M. 872, ♂, 873, ♂, Letti (Don.), Dec., 1922, H.H.K.

S.G.M. 2035, ♀, 2036, ♂, Wad Medani (B.N.), Nov., 1919, H.W.B.

S.G.M. 2795, ♀, Khartoum, Nov., 1924, W.W.B.

440b. SCANDINAVIAN CHIFFCHAFF.

Phylloscopus collybita abietina (Nilsson).

Winter visitor—throughout—common.

441a. PALLID WARBLER.

Hippolais pallida pallida (Hemp. and Ehr.).

Winter visitor—throughout—abundant.

MOUNTED.

S.G.M. 1095, ♂, Khartoum, Feb., 1914, A.L.B. (A.L.B.).

S.G.M. 1455, ♂, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 2029, ♀, Erkowit (R.S.), Aug., 1919, J.S.H.

*S.G.M. 455, ♂, 456, ♀, 457, ♂, 458, ♂, 459, ♂, Zeidab (Ber.), Feb.—May, 1921, H.W.B.

S.G.M. 2786, ♂, Gendettu (Ber.), Oct., 1924, W.W.B.

441b. BALKAN OLIVACEOUS WARBLER.

Hippolais pallida elæica (Linderm.).

Winter visitor—throughout—not common.

442. ICTERINE WARBLER.

Hippolais icterina (Vieill.).

Winter visitor—throughout—not common.

443a. RUFOUS WARBLER.

Agrobates galactotes galactotes (Temm.).

Winter visitor—throughout—common.

MOUNTED.

S.G.M. 1037, ♂, Shendi (Ber.), May, 1913, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 433, ♀, 434 ♂, 435, ♀, 436, ♂, Zeidab (Ber.), May, 1921, W.E.G.

443b. LESSER RUFOUS WARBLER.

Agrobates galactotes minor (Cab.).

Resident—savana and arid (acacia-grass)—common.

SKINS.

*S.G.M. 2383, ♀, Rahad R. (B.N.), Dec., 1923, W.W.B.

S.G.M. 2530, ♂, 2531, ♂, 2532, ♂, 2533, ♂, Rahad R. (B.N.), Mar.—Apr., 1924, W.W.B.

S.G.M. 2772, ♀, Erkowit (R.S.), Aug., 1924, W.W.B.

444. SAVI'S WARBLER.

Locustella luscinioides luscinioides (Savi).

Winter visitor—arid—not common.

MOUNTED.

S.G.M. 1090, ♀, Khartoum, Feb., 1914, A.L.B. (A.L.B.).

Genus *ACROCEPHALUS* : KEY TO SPECIES.

1. { Top of head uniform 2
 { Top of head with dark streaks ... *A. schœnobœvus*, 447.
2. { Wing over 70 mm. 3
 { Wing under 70 mm. 4
3. { Second primary as long as the fifth ... *A. arundinaceus*, 445.
 { Second primary shorter than the fifth *A. stentoreus*, 449.
4. { Second primary longer than the fifth 5
 { Second primary shorter than the fifth *A. baticatus*, 450.
5. { Upper parts reddish brown; bill 14
 to 15 mm. long *A. scripaccus*, 446.
 { Upper parts olive brown; bill 12 to
 13 mm. long *A. palustris*, 448.

445. GREAT REED-WARBLER.

Acrocephalus arundinaceus arundinaceus (Linn.).

Passage migrant—throughout—fairly common.

MOUNTED.

S.G.M. 1093, ♂, Khartoum, Oct., 1913, A.L.B. (A.L.B.).

SKINS.

†S.G.M. 2226, ♂, 2227, ♂, 2286, ♂, 2018, ♂, Wad Medani (B.N.), Sept. and Oct., 1923, H.W.B.

S.G.M. 2781, ♀, Sinkat (R.S.), Sept., 1924, W.W.B.

S.G.M. 3225, ♂, 3226, ♂, Khartoum, Sept. and Oct., 1925, H.H.K.

446. EASTERN REED-WARBLER.

Acrocephalus scripaceus crassirostris (Brehm.).

Winter visitor—throughout†—common.

MOUNTED.

S.G.M. 1094, ♂, Khartoum, Feb., 1913, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 437, ♂, Zeidab (Ber.), June, 1921, W.E.G.

*S.G.M. 438, ♂, Genetti (Don.), Jan., 1921, H.H.K.

447. SEDGE-WARBLER.

Acrocephalus schænobævus (Linn.).

Winter visitor—throughout—common.

MOUNTED.

S.G.M. 1517, ♀, Rejaf (Mon.), Apr., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 2020, ♂, Wad Medani (B.N.), Sept., 1919, H.W.B.

*S.G.M. 2295, ♂, 2332, ♀, Wad Medani (B.N.), Sept., 1923, H.W.B.

*S.G.M. 2162, ♂, 2163, ♂, 2164, ♂, Shekela (Kor.), Jan., 1923, R.G.A.

448. MARSH-WARBLER.

Acrocephalus palustris (Bechst.).

Passage migrant—throughout—not common.

SKINS.

*S.G.M. 2019, ♀, Wad Medani (B.N.), Sept., 1919, H.W.B.

449. CLAMOROUS REED-WARBLER.

Acrocephalus stentoreus stentoreus (Hemp. and Ehr.).

Occasional visitor—arid—not common.

450. TROPICAL AFRICAN REED-WARBLER.

Acrocephalus baticatus cinnamomeus Reichw.

Resident—savanna I—common.

†—The western form, *A. s. scripaceus* (Herm.), follows a migration route west of Darfur. It may, however, occur occasionally within our limits.

451. GREATER SUDD-WARBLER.

Calamornis nilotica (Neum).

Resident—sudd regions south of Lake No—common.

452. LESSER SUDD-WARBLER.

Calamornis nuerensis (Lynes).

Resident—sudd region north of Lake No—common.

453. SCALY-FRONTED WARBLER.

Spiloptila clamans (Temm.).

Resident—arid—common.

SKINS.

*S.G.M. 450, ♀, 451, ♀, El Obeid (Kor.), Aug., 1921, J.E.M.M.

*S.G.M. 452, ♂, 453, ♂, 454, ♂, 2313, ♂, 2194, ♂, Wad Medani (B.N.), Mar. and Sept., 1923, H.W.B.

*S.G.M. 449, ♂, Shendi (Ber.), Mar., 1921, H.W.B.

S.G.M. 2788, ♂, 2699, ♂, br., 2789, ♀, 2790, ♀, Gendettu (Ber.), Aug. and Oct., 1924, W.W.B.

454. FAN-TAILED WARBLER.

Schænicola brevirostris (Sund.).

Resident—savana—not common.

455. ABYSSINIAN SWAMP-WARBLER.

Bradypterus brachypterus abyssinicus Blund. and Lovat.

Resident—savana—fairly common.

456a. STRIPE-BACKED LONGTAIL.

Prinia gracilis gracilis (Licht.).

Resident—arid (except Red Sea coast)—very common.

SKINS.

*S.G.M. 471, ♂, Zeidab (Ber.), Feb., 1921, H.W.B.

*S.G.M. 472, ♀, Komi Is. (Don.), Oct., Nov., 1920, H.H.K.

*S.G.M. 473, ♀, Argo (Don.), 1920, H.H.K.

*S.G.M. 869, ♂, Letti (Don.), Dec., 1922, H.H.K.

S.G.M. 2691, ♂, 2692, ♂, 2698, ♂ br., Gendettu (Ber.), Aug., 1924, W.W.B.

456b. RED SEA STRIPE-BACKED LONGTAIL.

Prinia gracilis carlo Zedl.

Resident—arid (Red Sea coast)—common.

SKINS.

S.G.M. 3253, ♀, Khor Hanoyet (R.S.), Mar., 1926, H.B.J.

457. TAWNY-FLANKED LONGTAIL.

Prinia mistacea mistacea (Rüpp.).

Resident—savana—very common.

SKINS.

- *S.G.M. 474, ♂, Meridi (B.G.), Feb., 1916, C.C.
- *S.G.M. 475, ♂, Tembura (B.G.), Apr., 1916, C.C.
- *S.G.M. 2045, ♂, Aliab (Ber.), July, 1919, J.S.H.
- *S.G.M. 2046, ♂, Jebellin (W.N.), Aug., 1919, J.S.H.
- *S.G.M. 2047, ♂, 2048, ♀, Kajo Kaji (Mon.), Jan.—Feb., 1917, J.H.M.

458. BONGO RED-WING WARBLER.

Heliolais erythroptera jadoptera (Heugl.).

Resident—savana III and IV—not common.

MOUNTED.

- S.G.M. 1491, ♂, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

- *S.G.M. 439, ♀, Meridi (B.G.), Feb., 1916, C.C.

459. WHITE NILE MOUSTACHE-WARBLER.

Melocichla mentalis amaouroura (Pelz.).

Resident—savana III and IV—fairly common.

MOUNTED.

- S.G.M. 1464, ♀, 1411, ♂, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

- *S.G.M. 440, ♂, Tembura (B.G.), 1916, C.C.
- *S.G.M. 2021, ♂, 2022, ♂, 2023, ♂, Kajo Kaji (Mon.), Jan., Feb. and Apr., 1917, J.H.M.
- S.G.M. 2960, ♂, Rejaf (Mon.), Jan., 1925, H.H.K.

Genus CISTICOLA: KEY TO SPECIES.†

- | | | | | | | |
|----|--|---|---|----|------------------------------|---|
| 1. | Size small, wing of male 47 to 57 mm., females only slightly smaller ... 2 | Size medium, wing of male 58 to 68 mm., females more or less smaller ... 10 | Size large, wing of male 70 to 75 mm., females much smaller; bill short, thick and very curved, almost finchlike <i>C. natalensis</i> , 469. | | | |
| | | | | 2. | Upper parts uniform 8 | Upper parts distinctly streaked 3 |
| | | | | | 3. | Top of head bright red in distinct contrast with the rest of the upper parts <i>C. ruficeps</i> (winter), 472. |

†—After Lynes, Ibis, Supplement, 1930.

4. { Back heavily streaked 5
 { Back indistinctly streaked *C. brachyptera* (winter), 470.
5. { Tail not very short (three-fourths of wing, or longer), and of spotted, fan pattern below; top of head of male in summer a strong pattern of brown 6
 { Tail short (three-fifths of wing, or shorter), and of plain black pattern above and below; top of head of male in summer nearly uniform red *C. eximia* (summer), 462.
6. { Tail of spotted fan pattern above as well as below; rump rather redder than the back *C. juncidis*, 460.
 { Tail of spotted fan pattern below only, plain black pattern above 7
7. { Plumage rather pale sandy coloured; all but the central pair of tail-feathers conspicuously tipped with white *C. aridula*, 461.
 { Plumage brighter; only the outer tail-feathers conspicuously tipped with white *C. eximia* (winter), 462.
8. { Top of head bright red in distinct contrast with the rest of the upper parts *C. ruficeps* (summer), 472.
 { Top of head not contrasting with the rest of the upper parts 9
9. { Upper parts brown *C. brachyptera*, 470.
 { Upper parts bright foxy red *C. troglodytes*, 471.
10. { Back at all seasons a strong pattern of buffs, browns and greys, marked with dark brown to black 11
 { Back at all seasons plain, or no more than faintly dappled 12
11. { Pattern of upper side mostly rather soft and not very black, tail-tips dull coloured *C. chiniana*, 463.
 { Pattern of upper side mostly very bold and black, tail-tips white or whitish *C. galactotes*, 468.
12. { Top of head red, contrasting in colour with the rest of the upper parts 13
 { Top of head coloured like the rest of the upper parts 14
13. { First primary very broad; edges of wing-feathers reddish; white eyebrow terminating at eye *C. cantans*, 466.
 { First primary narrower; edges of wing-feathers not reddish; white eyebrow continuing behind eye *C. emini*, 465.
14. { First primary very broad; face reddish *C. erythrops*, 464.
 { First primary narrower; face not reddish *C. lateralis*, 467.

460. GOLD COAST FANTAIL GRASS-WARBLER.

Cisticola juncidis uropygialis (Fras.).

Resident—throughout—common.

SKINS.

S.G.M. 442, ♂, Rudi (U.N.), Dec., 1920, J.E.M.M.

S.G.M. 443, ♂, 444, ♀, Argo I. (Don.), Nov., 1920, H.H.K.

S.G.M. 445, ♀, Sherefa I. (Don.), Nov., 1920, H.H.K.

S.G.M. 2973, ♂ ?, 2974, ♂, Gendettu (Ber.), Oct., 1924, W.W.B.

461. DESERT GRASS-WARBLER.

Cisticola aridula aridula With.

Resident—arid—common.

SKINS.

S.G.M. 441, ♂ ?, El Obeid (Kor.), Aug., 1921, J.E.M.M.

462. BLACK-BACKED GRASS-WARBLER.

Cisticola eximia eximia Heugl.

Resident—savana—not common.

463. NILE RATTLER GRASS-WARBLER.

Cisticola chiniana simplex (Heugl.).

Resident—savana III and IV and sudd—very common.

SKINS.

S.G.M. 447, ♂, Yei (Mon.), Nov., 1917, C.C.

464. GHAZAL WHISTLING GRASS-WARBLER.

Cisticola lateralis antinorii (Heugl.).

Resident—savana III and IV—fairly common.

MOUNTED.

S.G.M. 1523, ♂ ?, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.)

465. NIGERIAN ROCK-LOVING GRASS WARBLER.

Cisticola emini petrophila Alex.

Resident—Darfur (Jebel Marra)—common.

466. SUDAN SINGING GRASS-WARBLER.

Cisticola cantans concolor (Heugl.).

Resident—savana—fairly common.

467a. SENNAR RED-FACED GRASS-WARBLER.

Cisticola erythrops nilotica Madarsz.

Resident—savana II—not common.

467b. UGANDA RED-FACED GRASS-WARBLER.

Cisticola erythrops sylvia Echw.

Resident—savana III and IV—fairly common.

MOUNTED.

S.G.M. 446, ♀, Meridi (B.G.), Jan., 1916, C.C.

468a. WHITE NILE RUFOUS GRASS-WARBLER.

Cisticola galactotes marginata (Heugl.).

Resident—savana—very common.

MOUNTED.

S.G.M. 1371, ♀, Shambe (B.G.), Feb., 1915, A.L.B. (A.L.B.).

SKINS.

S.G.M. 3100, ♂, Renk (U.N.), Nov., 1925, J.W.C.

468b. DARFUR RUFOUS GRASS-WARBLER.

Cisticola galactotes zalingei Lynes.

Resident—Darfur (swamps)—fairly common.

469a. SUDAN STRIPED GRASS-WARBLER.

Cisticola natalensis tonga Lynes.

Resident—savana I and II—fairly common.

MOUNTED.

S.G.M. 1274, ♂, Mouth of Sobat R. (U.N.), Feb., 1914, H.L. (A.L.B.).

469b. GHAZAL STRIPED GRASS-WARBLER.

Cisticola natalensis valida (Heugl.).

Resident—savana III and IV—common.

MOUNTED.

S.G.M. 1458, ♀, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

S.G.M. 2025, ♀, 2026, ♂, Kajo Kaji (Mon.), Apr., 1917, J.H.M.

S.G.M. 448, ♂, Tembura (B.G.), Apr., 1916, C.C.

S.G.M. 2027, ♂, 2028, ♂, Bor. (Mon.), July, 1919, J.S.H.

S.G.M. 2965, ♂, Rejaf (Mon.), Jan., 1925, H.H.K.

470. SHORTWING GRASS-WARBLER.

Cisticola brachyptera brachyptera (Sharpe).

Resident—savana—not common.

471a. SANDY GRASS-WARBLER.

Cisticola troglodytes troglodytes (Antin.).

Resident—savana I, III and IV—locally common.

MOUNTED.

S.G.M. 1379, ♀, Khor Kaia, Lado (Mon.), Feb., 1915, A.L.B. (A.L.B.).

SKINS.

S.G.M. 2024, ♀, Kajo Kaji (Mon.), Feb., 1917, J.H.M.

S.G.M. 2963, ♀, Rejaf (Mon.), Jan., 1925, H.H.K.

S.G.M. 3102, ♂, Talodi (N.M.), Dec. 1925, J.W.C.

471b. FERRUGINEUS GRASS-WARBLER.

Cisticola troglodytes ferruginea Heugl.

Resident—savana II—locally common.

472a. RED-CAPPED GRASS-WARBLER.

Cisticola ruficeps ruficeps (Cretz.).

Resident—arid (acacia-grass) west—common.

SKINS.

†S.G.M. 3097, ♀, 3098, ♂, 3099, ♂, Talodi (N.M.), Dec., 1925, J.W.C.

472b. SENNAR RED-CAPPED GRASS-WARBLER.

Cisticola ruficeps scotoptera (Sundev.).

Resident—savana I and II—common.

472c. MONGALLA RED-CAPPED GRASS-WARBLER.

Cisticola ruficeps mongalla Lynes.

Resident—savana III—common.

Sub-family *TURDINÆ*.

473. UGANDA RED-BACKED SCRUB-ROBIN.

Erythropygia leucophrys vansomereni Scl.

Resident—savana III and IV—common.

MOUNTED.

S.G.M. 1419, ♂ j, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 2010, ♂ ?, Kajo Kaji (Mon.), Apr., 1917, J.H.M.

*S.G.M. 399, ♀, Yei (Mon.), Nov., 1915, C.C.

474. DARFUR ANTEATER-CHAT.

Myrmecocichla aethiops sudanensis Lynes.

Resident—savana I and arid (acacia-grass) west—common.

475. SOOTY CHAT.

Myrmecocichla nigra Vieill.

Resident—savana III and IV—common.

MOUNTED.

S.G.M. 1445, ♂, 1401, ♀, 1425, ♀, Kajo Kaji (Mon.), Mar., 1915, A.L.B., (A.L.B.).

SKINS.

*S.G.M. 1809, ♂, Kajo Kaji (Mon.), Apr., 1917, J.H.M.

*S.G.M. 1810, ♂, Opari (Mon.), Feb., 1917, J.H.M.

*S.G.M. 398, ♂, Yei (Mon.), Dec., 1915, C.C.

†—Birds from the Nuba Mts. are, according to Lynes, somewhat intermediate between this and the next race.

476a. ABYSSINIAN CLIFF-CHAT.

Thamnodia cinnamomeiventris albiscapulata (Rüpp.).

Resident—savana II—fairly common.

MOUNTED.

S.G.M. 1286, ♂, Famaka (B.N.), May, 1911, A.L.B. (A.L.B.).

476b. KENYA CLIFF-CHAT.

Thamnodia cinnamomeiventris subrufipennis Reichw.

Resident—savana III—fairly common.

MOUNTED.

S.G.M. 1434, ♂, 1435, ♀, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

477a. WHITE-CROWNED CLIFF-CHAT.

Thamnodia coronata coronata Reichw.

Resident—"jebels" (Darfur)—common.

477b. KORDOFAN WHITE-CROWNED CLIFF-CHAT.

Thamnodia coronata kordofanensis Wetts.

Resident—"jebels" (Kordofan)—common.

SKINS.

S.G.M. 3104, ♂, 3105, ♂, 3106, ♀, 3107, ♀, Talodi (N.M.), Feb.—Mar., 1926, J.W.C.

478. SPOTTED MORNING-WARBLER.

Cichladusa guttata guttata (Heugl.).

Resident—savana III and IV—fairly common.

MOUNTED.

S.G.M. 1334, ♂, Mongalla (Mon.), July, 1914, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 2012, ♂, Kajo Kaji (Mon.), 1917, J.H.M.

*S.G.M. 2011, ♂, Simsimia (Mon.), Aug., 1919, J.S.H.

*S.G.M. 2966, ♀, 2967, ♀, Rejaf (Mon.), Jan., 1925, H.H.K.

479. WHITE-BROWED ROBIN-CHAT.

Cossypha semirufa heuglini Hartl.

Resident—savana—common.

MOUNTED.

S.G.M. 1042, ♂, Rumbek (B.G.), Jan., 1907, A.L.B. (Sheals).

S.G.M. 1395, ♀, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 1932, ♂, 1933, ♀, 1934, ♀, 1935, ♂, 1936, ♂, 1937, ♀, 1938, ♀, Kajo Kaji (Mon.), Feb., 1917, J.H.M.

*S.G.M. 1939, ♂, Opari (Mon.), Feb., 1917, J.H.M.

*S.G.M. 402, ♂, Wau (B.G.), July—Aug., 1916, C.C.

480. SNOWY-HEADED ROBIN-CHAT.

Cossypha niveicapilla niveicapilla (Lafres.).

Resident—savana—common.

MOUNTED.

S.G.M. 1041, ♂, Shereifa, near Roseires (Fung), Apr., 1911, A.L.B. (Sheals).

SKINS.

*S.G.M. 400, ♂, Yei (Mon.), Nov., 1915, C.C.

*S.G.M. 401, ♂, Yambio (B.G.), Mar., 1916, C.C.

481. BLACK BUSH-ROBIN.

Cercotrichas podobe podobe (Müller).

Resident—arid—very common.

MOUNTED.

S.G.M. 1080, ♂, Shendi (Ber.), May, 1913, A.L.B. (A.L.B.).

SKINS.

S.G.M. 6251, ♂, 6252, ♀, Khor Hanoyeit (R.S.), Apr., 1926, H.B.J.

S.G.M. 386, ♀, 387, ♂, Bergeig (Don.), Nov., 1920, H.H.K.

S.G.M. 388, ♂, Hag Zamar (Don.), Dec., 1920, W.E.G.

S.G.M. 389, ♂, Zeidab (Ber.), May, 1921, W.E.G.

S.G.M. 2618, ♂, 2619, ♂, Kitiab (Ber.), Nov., 1924, W.W.B.

S.G.M. 2616, ♂, Atbara (Ber.), July, 1924, W.W.B.

S.G.M. 2617, ♂, Shendi (Ber.), Aug., 1924, W.W.B.

S.G.M. 2496, ♂, 2498, ♂, 2500, ♂, Rahad R. (B.N.), Mar.—Apr., 1924, W.W.B.

*S.G.M. 2250, ♂, Wad Medani (B.N.), Sept., 1923, H.W.B.

482a. REDSTART.

Phoenicurus phoenicurus phoenicurus (Linn.).

Winter visitor—throughout—very common.

SKINS.

*S.G.M. 852, ♀, 379, ♂, Khandak (Don.), Oct., 1920, H.H.K.

*S.G.M. 380, ♂, Tangassi I. (Don.), Oct., 1920, H.H.K.

*S.G.M. 853, ♀, 854, ♀, 855, ♀, 859, ♂, 860, ♂, 861, ♂, 862, ♂, 863, ♂, 864, ♂, Letti basin (Don.), Nov.—Dec., 1922, H.H.K.

*S.G.M. 375, ♂, Kurri (Don.), Oct., 1920, H.H.K.

*S.G.M. 376, ♀, Zeidab (Ber.), Mar., 1921, H.W.B.

S.G.M. 2501, ♂, 2502, ♂, Rahad R. (B.N.), Mar.—Apr., 1924, W.W.B.

*S.G.M. 374, ♀, Yei (Mon.), Dec., 1915, C.C.

*S.G.M. 377, ♂, Meridi (B.G.), Jan., 1916, C.C.

482b. WHITE-WINGED REDSTART.

Phoenicurus phoenicurus samamisticus (Hablizl).

Winter visitor—throughout—fairly common.

SKINS.

*S.G.M. 378, ♂, Yei (Mon.), Nov., 1915, C.C.

S.G.M. 2609, ♂, 2610, ♂, 2611, ♂, 2612, ♀, Sinkat (R.S.), Oct., 1924, W.W.B.

483. BLACK REDSTART.

Phoenicurus ochruros ochruros (Gmel.).

Winter visitor—throughout—not common.

484. WHITE-SHOULDERED BLACK CHAT.

Pentholæa albifrons clericalis Hartl.

Resident—savana III—fairly common.

MOUNTED.

S.G.M. 1389, ♂, 1426, ♀, Kajo Kaji (Mon.), Feb.—Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 1812, ♀, Kajo Kaji (Mon.), Mar., 1917, J.H.M.

*S.G.M. 395, ♂, 396, ♀, 397, ♀, Yei (Mon.), Nov., 1915, C.C.

485a. URAL STONE-CHAT.

Saxicola torquata maura (Pall.).

Winter visitor—throughout—common.

MOUNTED.

S.G.M. 1046, ♂, 1047, ♂, 1048, ♂, Khartoum, Nov.—Dec., 1912, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 2342, ♂, 2374, ♀, 2375, ♂, 2376, ♂, 2378, ♂, 2350, ♀, 2351, ♀ Wad Medani (B.N.), Nov. and Dec., 1923, W.W.B.

S.G.M. 2608, ♂, Sinkat (R.S.), Sept., 1924, W.W.B.

485b. JEBEL MARRA STONE-CHAT.

Saxicola torquata jebelmarrae Lynes.

Resident—Jebel Marra (Darfur)—very common.

486. WHINCHAT.

Saxicola rubetra rubetra (Linn.).

Winter visitor—throughout—common.

MOUNTED.

S.G.M. 1391, ♂, Kajo Kaji (Mon.), Feb., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 429, ♀, 430, ♂, 431, ♀, 432, ♂, Yei (Mon.), Nov.—Dec., 1915, C.C.

*S.G.M. 1804, ♂, 1805, ♂, 1806, ♂, 1807, ♀, Kajo Kaji (Mon.), Mar., 1917, J.H.M.

*S.G.M. 2303, ♂, Wad Medani (B.N.), Sept., 1923, H.W.B.

S.G.M. 2604, ♀, 2605, ♂, 2606, ♂, 2607, ♂, Erkowit (R.S.), Aug., 1924, W.W.B.

487a. ERITREAN BLACK-TAILED ROCK-CHAT.

Cercomela melanura lypura (Hemp. & Ehr.).

Resident—arid (Red Sea hills)—common.

487b. ASBEN BLACK-TAILED ROCK-CHAT.

Cercomela melanura aïrensis Hart.

Resident—arid (jebels) west—common.

488a. BROWN-TAILED ROCK-CHAT.

Cercomela scotocerca scotocerca (Heugl.).

Resident—arid (jebels) east—common.

488b. DARFUR BROWN-TAILED ROCK-CHAT.

Cercomela scotocerca furensis Lynes.

Resident—arid (jebels) west—common.

489. FAMILIAR ROCK-CHAT.

Cercomela familiaris gambagæ (Hartert).

Resident—arid (west)—fairly common.

Genus *CENANTHE* : KEY TO SPECIES.†

- | | | |
|----|--|------------------------------|
| 1. | { Under parts black | <i>C. leucopyga</i> , 499. |
| | { Under parts not black | 2 |
| 2. | { Upper tail-coverts reddish | <i>C. xanthopyrma</i> , 493. |
| | { Upper tail-coverts white, or with a slight reddish yellow wash... .. | 3 |
| 3. | { Throat black | 4 |
| | { Throat white, isabelline, or brownish | 7 |
| 4. | { Back black | 5 |
| | { Back isabelline, or sandy colour | <i>C. deserti</i> , 498. |
| | { Back pure white, or white washed with reddish yellow | <i>C. hispanica</i> , 495. |
| 5. | { Bill 17—20 mm. long | <i>C. monacha</i> , 497. |
| | { Bill shorter; 12—15 mm. long | 6 |
| 6. | { Under tail-coverts white or cream colour | <i>C. leucomela</i> , 496. |
| | { Under tail-coverts bright isabelline or reddish brown | <i>C. lugens</i> , 494. |
| 7. | { Ear-coverts black | 8 |
| | { Ear-coverts not black | <i>C. isabellina</i> , 491. |
| 8. | { Upper parts grey | <i>C. cenanthe</i> , 490. |
| | { Upper parts dark brown or dusky greyish brown | <i>C. bottæ</i> , 492. |

490. WHEATEAR.

Cenanthe cenanthe cenanthe (Linn.).

Winter visitor—throughout—very common.

SKINS.

*S.G.M. 1800, ♂, 1801, ♂, Kajo Kaji (Mon.), Jan. and Mar., 1917, J.H.M.

*S.G.M. 413, ♂, 414, ♂, Meridi (B.G.), Feb., 1916, C.C.

*S.G.M. 1799, ♂, Torit (Mon.), Nov., 1917, J.H.R.Y.

*S.G.M. 410, ♀, Zeidab (Ber.), Mar., 1921, H.W.B.

*S.G.M. 2252, ♂, 2274, ♀, Wad Medani (B.N.), Oct.—Nov., 1923, H.W.B.

*S.G.M. 2192, ♂, 2379, ♀, 2380, ♂, 2381, ♂, Wad Medani (B.N.), Nov.—Dec., 1923, W.W.B.

*S.G.M. 408, ♀, (♂ ?), 409, ♂, Khartoum, Sept., 1922, W.W.B.

*S.G.M. 2613, ♂, Erkowit (R.S.), Aug., 1924, W.W.B.

*S.G.M. 411, ♂, 415, ♂, Abu Fatma (Don.), Oct., 1920, H.H.K.

*S.G.M. 412, ♂, Khandak (Don.), Oct., 1920, H.H.K.

†—After Reichenow, "Die Vögel Afrikas."

491. ISABELLINE WHEATEAR.

Enanthe isabellina (Temm.).

Winter visitor—throughout—common.

MOUNTED.

S.G.M. 1052, ♂, Khartoum, Jan., 1913, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 1792, ♂, 1794, ♀, 1795, ♂, Wad Medani (B.N.), Oct., 1919, H.W.B.

*S.G.M. 2323, ♂, 2254, ♂, 2281, ♀, Wad Medani (B.N.), Sept. and Nov., 1923, H.W.B.

*S.G.M. 2347, ♀, Wad Medani (B.N.), Nov., 1923, W.W.B.

S.G.M. 2614, ♂, 2615, ♂, Erkowit (R.S.), Aug., 1924, W.W.B.

*S.G.M. 416, ♂, Khartoum, Sept., 1921, R.C.

492. NILE RED-BREASTED CHAT.

Enanthe bottæ heuglini (Hartl.).

Resident—savanna and arid (acacia-grass)—common.

MOUNTED.

S.G.M. 1050, ♂, Zeraf R. (B.G.), Feb., 1914, H.L. (A.L.B.).

SKINS.

*S.G.M. 419, ♂, El Obeid (Kor.), Aug., 1921, J.E.M.M.

*S.G.M. 2119, ♀, 2285, ♀, Wad Medani (B.N.), Aug., 1921, H.W.B.

493. RED-RUMPED CHAT.

Enanthe xanthopyrmyna (Hemp. & Ehr.).

Winter visitor—arid—fairly common.

494. PERSIAN WHITE-UNDER-WINGED CHAT.

Enanthe lugens persica (Seebohm.).

Winter visitor—arid—not common.

495. EASTERN BLACK-EARED CHAT.

Enanthe hispanica melanoleuca (Güldens).

Winter visitor—arid—common.

MOUNTED.

S.G.M. 1055, ♂, 1058, ♂, 1059, ♂, Khartoum, Feb., 1913, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 422, ♂, 423, ♂, Zeidab (Ber.), Mar., 1921, H.W.B.

*S.G.M. 424, ♂, Wad Medani (B.N.), Mar., 1922, H.W.B.

S.G.M. 3228, ♂, Wad Medani (B.N.), Jan., 1924, W.W.B.

S.G.M. 3229, ♂, Rahad R. (B.N.), Jan., 1924, W.W.B.

*S.G.M. 407, ♂, Khartoum, Sept., 1922, W.W.B.

496a. PIED CHAT.

Enanthe leucomela leucomela (Pall.).

Winter visitor—arid—common.

MOUNTED.

S.G.M. 1053, ♂, 1054, ♂, Khartoum, Jan. and Oct., 1913, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 421, ♂, Zeidab (Ber.), May, 1921, W.E.G.

496b. CYPRIAN PIED CHAT.

Enanthe leucomela cypriaca (Hom.).

Winter visitor—arid—not common.

497. HOODED CHAT.

Enanthe monacha Temm.

Wanderer—arid—rare.

498. INDIAN DESERT CHAT.

Enanthe deserti atrogularis (Blyth).

Winter visitor—arid—very common.

MOUNTED.

S.G.M. 1051, ♂, Khartoum, Jan., 1912, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 417, ♂, Erris (Don.), Nov., 1920, H.H.K.

*S.G.M. 418, ♀, Tangassi (Don.), Oct., 1920, H.H.K.

*S.G.M. 425, ♂, 426, ♀?, Abu Fatma (Don.), Nov., 1920, H.H.K.

*S.G.M. 427, ♂?, Abu Dom (Don.), Oct., 1920, H.H.K.

*S.G.M. 428, ♂?, Khartoum, Sept., 1921, R.C.

499a. WHITE-RUMPED BLACK CHAT.

Enanthe leucopyga leucopyga (Brehm).

Resident—arid (jebels) east—fairly common.

MOUNTED.

S.G.M. 1287, ♂, Jebel Bawateb (R.S.), May, 1908, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 1802, ♂, 1803, ♀, Erkowit (R.S.), Aug.—Sept., 1919, J.S.H.

*S.G.M. 390, ♀, 391, ♀, 392, ♂, 393, ♂, 394, ♀, Abu Fatma (Don.), Nov., 1920, H.H.K.

499b. ALGERIAN WHITE-RUMPED BLACK CHAT.

Enanthe leucopyga ægra Hart.

Resident—arid (jebels) west—common.

500a. RED-SPOTTED BLUETHROAT.

Cyanosylvia svecica svecica (Linn.).

Winter visitor—throughout—fairly common.

500b. PERSIAN BLUETHROAT.

Cyanosylvia svecica magna (Sar. & Loud.).

Winter visitor—Red Sea coast—fairly common.

500c. WHITE-SPOTTED BLUETHROAT.

Cyanosylvia svecica cyanecula (Wolf.).

Winter visitor—arid—common.

MOUNTED.

*S.G.M. 856, ♂, Letti (Dong.), Nov., 1922, H.H.K. (R.C.).

SKINS.

*S.G.M. 857, ♀, 858, ♂, Letti (Don.), Nov.—Dec., 1922, H.H.K.

*S.G.M. 383, ♂, Morghani I. (Don.), Jan., 1921, H.H.K.

*S.G.M. 382, ♀, Genetti (Don.), Jan., 1921, H.H.K.

501. NIGHTINGALE.

Luscinia megarhyncha megarhyncha Brehm.

Winter visitor—throughout—common.

MOUNTED.

S.G.M. 1378, ♀, Morbi's, Lado Enclave (Mon.), Feb., 1915, A.L.B. (A.L.B.).

502. SPROSSER.

Luscinia luscinia (Linn.).

Passage migrant—throughout—common.

MOUNTED.

S.G.M. 1087, ♂, 1088, ♀, Khartoum, Oct., 1913, A.L.B. (A.L.B.).

503a. BLUE ROCK-THRUSH.

Monticola solitaria solitaria (Linn.).

Winter visitor—arid—common.

MOUNTED.

†S.G.M. 1040, ♂, 1278, ♂, Khartoum, Sept., 1913, and Apr., 1914, A.L.B. (A.L.B.).

SKINS.

†S.G.M. 366, ♂, Zeidab (Ber.), Feb., 1921, H.W.B.

†S.G.M. 367, ♂, Genetti (Don.), Nov., 1921, H.H.K.

†S.G.M. 851, ♂, Debba (Don.), Oct., 1922, H.H.K.

503b. NEAR EAST BLUE ROCK-THRUSH.

Monticola solitaria longirostris (Blyth).

Winter visitor—arid—common.

504. ROCK-THRUSH.

Monticola saxatilis (Linn.).

Winter visitor—throughout—very common.

MOUNTED.

S.G.M. 1038, ♂, 1039, ♂, Khartoum, Sept., 1913, A.L.B. (A.L.B.).

S.G.M. 1474, ♂, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

†—Some, or all, of these birds may belong to the following race. Both forms occur together in their winter quarters and are difficult to differentiate when in winter plumage.

SKINS.

- *S.G.M. 1813, ♀, 1814, ♀, 1815, ♀, 1816, ♂, 1818, ♀, Kajo Kaji (Mon.), Feb, 1917, J.H.M.
 *S.G.M. 2110, ♂, 2273, ♂, Wad Medani (B.N.), Sept.—Oct., 1923, H.W.B.
 *S.G.M. 2352, ♂, Wad Medani (B.N.), Dec., 1923, W.W.B.
 *S.G.M. 2503, ♂, Rahad R. (B.N.), Mar., 1924, W.W.B.
 S.G.M. 368, ♀, 369, ♂, 370, ♀, 371, ♀, Khartoum, Sept., 1922, W.W.B.
 *S.G.M. 373, ♂, Zeidab (Ber.), Apr., 1921, W.E.G.

505. SONG THRUSH.

Turdus philomelos philomelos Brehm.

Winter visitor—arid—not common.

SKINS.

- *S.G.M. 360, ♀, Zeidab (Ber.), Mar., 1921, H.W.B.
 *S.G.M. 850, ♀, Letti (Don.), Dec., 1922, H.H.K.

506. ALPINE RING-OUZEL.

Turdus torquatus alpestris (Brehm).

Winter visitor—arid—rare.

507. SUDAN ETHIOPIAN THRUSH.

Turdus libonyanus pelios Bp.

Resident—savana—common.

MOUNTED.

- S.G.M. 1541, ♂, Torit (Mon.), Nov., 1917, J.H.R.Y. (R.C.).

SKINS.

- *S.G.M. 361, ♀, 362, ♂, Yei (Mon.), Dec., 1915, C.C.
 *S.G.M. 363, ♀, Meridi (B.G.), Jan., 1916, C.C.
 *S.G.M. 364, ♀, Yambio (B.G.), Mar., 1916, C.C.
 *S.G.M. 365, ♂, Wau (B.G.), July—Aug., 1916, C.C.

Family *CAMPEPHAGIDÆ*.

KEY TO SPECIES.

- | | | |
|---|--|------------------------------------|
| { | Under parts glossy black, or white,
barred with black in the female ... | <i>Campephaga phoenicea</i> , 508. |
| | Breast grey, rest of under parts white,
without any barring | <i>Coracina pectoralis</i> , 509. |

508. RED-SHOULDERED CUCKOO-SHRIKE.

Campephaga phoenicea (Lath.).

Resident—savana—fairly common.

MOUNTED.

- S.G.M. 1497, ♂, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

- *S.G.M. 327, ♂, Meridi (B.G.), Feb., 1916, C.C.
 *S.G.M. 328, ♂, 329, ♂, 330, ♂, 334, ♀, Yambio (B.G.), Mar., 1916, C.C.
 *S.G.M. 335, ♂, Mt. Baginzi (B.G.), Mar., 1916, C.C.
 *S.G.M. 336, ♀, 337, ♀, Wau (B.G.), July—Aug., 1916, C.C.
 *S.G.M. 2001, ♀?, 2002, ♂, 2003, ♂, 2004, ♂, Kajo Kaji (Mon.), Jan.—Apr., 1917, J.H.M.
 †S.G.M. 331, ♂, Mt. Baginzi (B.G.), Mar., 1916, C.C.

509. WHITE-BREASTED CUCKOO-SHRIKE.

Coracina pectoralis (Jard & Selby).

Resident—savanna—fairly common.

SKINS.

- *S.G.M. 338, ♂, 339, ♂, 340, ♀, 341, ♀, 342, ♂, Mt. Baginzi (B.G.), Mar., 1916, C.C.
 *S.G.M. 343, ♂, Meridi (B.G.), Jan., 1916, C.C.

Family MUSCICAPIDÆ.

KEY TO SPECIES.†

- | | | | |
|----|---|--|------------------------------------|
| 1. | { | Plumage entirely black | <i>Melanornis edoloides</i> , 517. |
| | | Plumage not entirely black | 2 |
| 2. | { | Tail shorter than the wing, or if the same length square or slightly rounded (outer feather not 10 mm. shorter than the middle one) | 3 |
| | | Tail longer than the wing, or if the same length strongly graded, or rounded (outer feather 10 mm., or more, shorter than the middle one) | 16 |
| 3. | { | With wattles around the eye | <i>Platysteira cyanea</i> , 525. |
| | | Without eye-wattles | 4 |
| 4. | { | With a black or reddish brown breast-band | 5 |
| | | Without a black or reddish brown breast-band | 6 |
| 5. | { | Top of head black | <i>Batis minor</i> , 523. |
| | | Top of head grey | <i>Batis orientalis</i> , 524. |
| 6. | { | Primaries hardly more than 5 mm. longer than the primary-coverts | 7 |
| | | Primaries more than 5 mm. longer than the primary-coverts | 10 |
| 7. | { | Bases of the primaries white | 8 |
| | | No white on primaries | <i>Muscicapa striata</i> , 518. |
| 8. | { | Tail deep black, often glossy; under parts pale yellowish | <i>Hyliota flavigaster</i> , 522. |
| | | Tail not deep black (sometimes blackish brown); under parts not yellowish | 9 |

†—Orange-shouldered form.

‡—After Reichenow, "Die Vögel Afrikas."

9. { With a white band, or collar on back of neck *Ficedula albicollis*, 521.
 { Without a white collar on back of neck *Ficedula hypoleuca*, 520.
10. { Whole under side yellow *Chloropeta natalensis*, 514.
 { Under side not entirely yellow ... 11
11. { Under parts reddish brown *Empidonis semipartitus*, 513.
 { Under parts not reddish brown ... 12
12. { Wing 80 mm. or longer; bill small 13
 { Wing under 80 mm.; bill flattened... 14
13. { Upper parts pale brown *Bradornis pallidus*, 515.
 { Upper parts greyish *Bradornis griseus*, 516.
14. { Wing over 75 mm. *Muscicapa gambagæ*, 519.
 { Wing under 75 mm. 15
15. { Outer tail feathers white *Parisoma plumbeum*, 510.
 { Outer tail feathers not white *Alseonax aquaticus*, 512.
16. { Plumage black; tail not graded *Melanornis edoloides*, 517.
 { Plumage glossy black; tail strongly graded *Tchitrea viridis*, 527.
 { Plumage not entirely black 17
17. { With reddish brown in the plumage *Tchitrea viridis*, 527.
 { Without reddish brown in the plumage *Erannornis longicauda*, 526.

510. GREY TIT-BABBLER.

Parisoma plumbeum plumbeum (Hartl.).

Resident—savana III and IV—fairly common.

MOUNTED.

S.G.M. 1377, ♀, Loka, near Rejaf (Mon.), Feb., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 314, ♂, Mt. Baginzi (B.G.), Mar., 1916, C.C.

511. ERITREAN TIT-BABBLER.

Parisoma leucomelæna blandfordi.

Resident—Red Sea Province—not common.

SKINS.

*S.G.M. 2034, ♂, Erkowit (R.S.), Sept., 1919, J.S.H.

512a. SWAMP FLYCATCHER.

Alseonax aquaticus aquaticus (Heugl.).

Resident—savana IV—fairly common.

512b. WHITE NILE SWAMP FLYCATCHER.

Alseonax aquaticus infulatus (Hartl.).

Resident—savana III and sudd—fairly common.

513. NILE VALLEY SILVER-BIRD.

Empidonis semipartitus orleansi Roths.

Resident—savana—common.

MOUNTED.

S.G.M. 1310, ♂, Mongalla, June, 1914, A.L.B. (A.L.B.).

S.G.M. 1500, ♀, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 1979, ♂, 1980, ♀, Torit (Mon.), Aug., 1918, J.H.R.Y.

*S.G.M. 1981, ♂, Rudu (Mon.), Feb., 1917, J.H.M.

*S.G.M. 1982, ♂, Mongalla, Aug., 1919, J.S.H.

514. EAST AFRICAN YELLOW FLYCATCHER.

Chloropeta natalensis massaica Fisch. & Reichw.

Resident—savana III and IV—not common.

515. PALE FLYCATCHER.

Bradornis pallidus pallidus (Müll.).

Resident—savana—common.

MOUNTED.

S.G.M. 1396, ♂, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 310, ♂, 311, ♀, Meridi (B.G.), Jan.—Feb., 1916, C.C.

*S.G.M. 535, ♂, 536, ♀, Duk Ayod (U.N.), May, 1920, W.H.M.P.

516. GREY FLYCATCHER.

Bradornis griseus griseus Reichw.

Resident—savana III—not common.

517a. UGANDA BLACK FLYCATCHER.

Melæornis edolioides ugandæ Som.

Resident—savana IV—common.

517b. ABYSSINIAN BLACK FLYCATCHER.

Melæornis edolioides lugubris (Müll.).

Resident—savana II and III and arid (acacia-forest)—common.

MOUNTED.

S.G.M. 1436, ♀, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 308, ♀, 309, ♂, Yei (Mon.), Nov.—Dec., 1915, C.C.

518. SPOTTED FLYCATCHER.

Muscicapa striata striata (Pall.).

Winter visitor—throughout—very common.

MOUNTED.

S.G.M. 1469, ♀, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

- *S.G.M. 2013, ♀, 2014, ♂, Kajo Kaji (Mon.), Mar.—Apr., 1917, J.H.M.
*S.G.M. 2114, ♂, 2320, ♂, Wad Medani (B.N.), Aug.—Sept., 1923, H.W.B.
*S.G.M. 2017, ♀, Zeidab (Ber.), Sept., 1919, H.W.B.
S.G.M. 2763, ♂, Erkowit (R.S.), Aug., 1924, W.W.B.

519. GAMBAGE DUSKY FLYCATCHER.

Muscicapa gambagæ gambagæ (Alex.).

Resident—savana—not common.

520. EASTERN PIED FLYCATCHER.

Ficedula hypoleuca semitorquata (Homeyer).

Winter visitor—throughout—not common.

521. WHITE-COLLARED FLYCATCHER.

Ficedula albicollis (Temm.).

Winter visitor—recorded from Darfur.

522. YELLOW-BELLIED FLYCATCHER.

Hyliota flavigaster flavigaster Swains.

Resident—savana III and IV—fairly common.

MOUNTED.

- S.G.M. 1496, ♂, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

- *S.G.M. 312, ♂, Mt. Baginzi (B.G.), Mar., 1916, C.C.
*S.G.M. 313, ♂, Wau (B.G.), July—Aug., 1916, C.C.
*S.G.M. 1983, ♀, Kajo Kaji (Mon.), Apr., 1916, J.H.M.

523a. ABYSSINIAN BLACK-HEADED FLYCATCHER.

Batis minor erlangeri Neum.

Resident—savana II—common.

523b. UGANDA BLACK-HEADED FLYCATCHER.

Batis minor nyanzæ Neum.

Resident—savana III and IV—common.

MOUNTED.

- S.G.M. 1452, ♂, 1468, ♀, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

- *S.G.M. 1997, ♀, 1998, ♂, 1999, ♂, 2000, ♀, Kajo Kaji (Mon.), Mar.—Apr., 1917, J.H.M.
*S.G.M. 315, ♂, 316, ♀, Meridi (B.G.), Feb., 1916, C.C.

523c. CHAD BLACK-HEADED FLYCATCHER.

Batis minor chadensis Alex.

Resident—savana I and arid (acacia-forest)—common.

SKINS.

S.G.M. 3261, ♀, Selima (W.N.), Oct., 1925, H.H.K.

S.G.M. 2766, ♂, 2767, ♀, 2768, ♀, Sinkat (R.S.), Sept., 1924, W.W.B.

S.G.M. 2764, ♂, 2765, ♀, Erkowit (R.S.), Aug., 1924, W.W.B.

S.G.M. 3123, ♂, 3124, ♂, 3125, ♀, Talodi (N.M.), Jan.—Feb., 1926, J.W.C.

524. GREY-HEADED FLYCATCHER.

Batis orientalis orientalis (Heugl.).

Resident—Red Sea hills—not common.

525. UGANDA BROWN-THROATED WATTLE-EYE.

Platysteira cyanea nyansæ Neum.

Resident—savana III and IV—common.

MOUNTED.

S.G.M. 1439, ♂ j, 1440, ♂, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.)

SKINS.

*S.G.M. 318, ♂, Tembura (B.G.), Apr., 1916, C.C.

*S.G.M. 319, ♀, Meridi (B.G.), Jan., 1916, C.C.

*S.G.M. 1995, ♂, 1996, ♀, Kajo Kaji (Mon.), Jan.—Feb., 1917, J.H.M.

526. BAHR-EL-GHAZAL BLUE FLYCATCHER.

Erannornis longicauda teresita (Antin.).

Resident—savana III and IV—not common.

SKINS.

*S.G.M. 320, ♂, Yei (Mon.), Nov., 1915, C.C.

*S.G.M. 321, ♂, Meridi (B.G.), Feb., 1916, C.C.

527. PARADISE FLYCATCHER.

Tchitreia viridis viridis (Müll.).

Resident—savana and arid (acacia-forest)—very common.

MOUNTED.

S.G.M. 1043, ♂, Famaka (B.N.), May, 1911, A.L.B. (A.L.B.).

S.G.M. 1444, ♂, 1454, ♂, 472, ♀, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 1984, ♂, 1985, ♂, 1986, ♀, 1987, ♀, 1988, ♀, 1989, ♂, 1990, ♂, 1991, ♂, 1992, ♀, 1993, ♂, 1994, ♂, Kajo Kaji (Mon.), Jan.—Apr., 1917, J.H.M.

*S.G.M. 322, ♂, 323 ♀, 324, ♂, Mt. Baginzi (B.G.), Mar., 1916, C.C.

*S.G.M. 325, ♂, 326, ♂, Yei (Mon.) Nov., 1915, C.C.

S.G.M. 3262, ♂, Rahad R. (B.N.), June, 1924, W.W.B.

Family *HIRUNDINIDÆ*.

KEY TO SPECIES.†

1. { Outer margin of the first primary
 serrated in the male *Psalidoprocne albiceps*, 543.
 Outer margin of the first primary not
 serrated in the male 2

†—After Sharpe, "Catalogue of Birds."

2. { Tarsi and toes feathered *Delichon urbica*, 542.
Tarsi and toes bare, or with only a
small tuft of feathers on the tarsi ... 3
3. { Outermost tail-feather not much
elongated; its inner web not
emarginated 4
Outermost tail-feather much elon-
gated and its inner web emarginated 9
4. { No white spot on the inner webs of
the tail-feathers 5
A white spot on the inner webs of all
the tail-feathers excepting the two
central and the outermost ... 7
5. { With a tuft of pale buff feathers on
the tarsus *Riparia riparia*, 528.
With no tuft of feathers on the tarsus 6
6. { Below white, with a transverse band
of brown on the chest *Riparia cincta*, 529.
Below brown, or with only the
abdomen white *Riparia paludicola*, 530.
7. { Throat and chest deep rufous, con-
trasting with the sooty-brown
abdomen *Ptyonoprogne rufifigula*, 533.
Throat and chest pale isabelline or
sandy buff, fading into the slightly
deeper colour of the abdomen ... 8
8. { Larger; wing 4.9 ins.; chin minutely
spotted with brown *Ptyonoprogne rupestris*, 531.
Smaller; wing 4.5 ins.; chin and
throat uniform *Ptyonoprogne obsoleta*, 532.
9. { Lower back and rump blue 10
Rump and head dusky *Hirundo griseopyga*, 536.
Rump rufous 12
10. { Head blue; forehead rufous ... 11
Head rufous, forming a cap *Hirundo smithii*, 537.
11. { Throat intense rufous *Hirundo rustica*, 534.
Throat white, or pale buff *Hirundo aethiopica*, 535.
12. { Head rufous *Hirundo abyssinica*, 541.
Head blue like the back 13
13. { With black shaft-streaks (often very
fine) to the feathers of the under
surface *Hirundo rufula*, 538.
Under parts plain, without any shaft-
streaks 14
14. { Smaller; wing less than 5.25 ins.;
throat rufous *Hirundo semirufa*, 540.
Larger; wing 5.7 ins.; throat
whitish *Hirundo senegalensis*, 539.

528a. SAND-MARTIN.

Riparia riparia riparia (Linn.).

Winter visitor—throughout—very common.

528b. EGYPTIAN SAND-MARTIN.

Riparia riparia shelleyi (Sharpe).

Resident—arid (rivers)—common.

529. BANDED MARTIN.

Riparia cincta cincta (Bodd.).

Resident—savana†—not common.

530. SUDAN SAND-MARTIN.

Riparia paludicola minor (Cab.).

Resident—throughout—common.

MOUNTED.

S.G.M. 1045, ♂, Khartoum, Feb., 1913, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 305, ♂, 306, ♀, 307, ♀, Lebab (Don.), Nov., 1920, H.H.K.

531. EUROPEAN CRAG-MARTIN.

Ptyonoprogne rupestris (Scop.).

Winter visitor—arid (jebels)—rare.

532. PALE CRAG-MARTIN.

Ptyonoprogne obsoleta obsoleta (Cab.).

Resident—arid (jebels)‡—not common.

533a. RED-THROATED ROCK-MARTIN.

Ptyonoprogne rufigula rufigula (Fisch. & Reichw.).

Resident—savana—not common.

MOUNTED.

S.G.M. 1420, ♂, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

533b. DESERT ROCK-MARTIN.

Ptyonoprogne rufigula pusilla (Zedl.).

Resident—arid (acacia-grass)—common.

534. EUROPEAN SWALLOW.

Hirundo rustica rustica Linn.

Winter visitor—throughout—abundant.

SKINS.

*S.G.M. 301, ♂, 302, ♂, Zeidab (Ber.), May, 1921, H.W.B.

†—This race intergrades with the Abyssinian form, *R. c. erlangeri* Reichw. in the Sudan.

‡—Sudan birds are somewhat intermediate between this race and *P. o. arabica* (Reichw.).

535. ETHIOPIAN SWALLOW.

Hirundo æthiopica Blandford.

Resident—throughout, except extreme north—abundant.

SKINS.

- *S.G.M. 2302, ♀, Wad Medani (B.N.), Aug., 1923, H.W.B.
S.G.M. 1784, ♂ j, Wad Medani (B.N.), Sept., 1919, H.W.B.
S.G.M. 3263, ♀, Wad Medani (B.N.), June, 1924, W.W.B.

536. GREY-RUMPED SWALLOW.

Hirundo griseopyga griseopyga Sund.

Resident—savana—not common.

537. WIRE-TAILED SWALLOW.

Hirundo smithii smithii Leach.

Resident—throughout—fairly common.

MOUNTED.

- S.G.M. 1044, ♂, Singa (Fung), Apr., 1913, A.L.B. (A.L.B.).
S.G.M. 1481, ♂, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

- *S.G.M. 303, ♂, Meridi (B.G.), Feb., 1916, C.C.
*S.G.M. 304, ♂, Letti basin (Don.), Dec., 1920, H.H.K.

538a. RED-RUMPED SWALLOW.

Hirundo rufula rufula Temm.

Resident—arid—not common.

538b. SENEGAL RED-RUMPED SWALLOW.

Hirundo rufula domicella Hartl. and Fisch.

Resident—savana—fairly common.

539. MOSQUE-SWALLOW.

Hirundo senegalensis senegalensis Linn.

Resident—savana—common.

MOUNTED.

- S.G.M. 1506, ♀, Kajo Kaji (Mon.), Apr., 1915, A.L.B. (A.L.B.).

SKINS.

- *S.G.M. 1739, ♀, Opari (Mon.), Feb., 1917, J.H.M.
*S.G.M. 1740, ♂, 1741, ♀, Kajo Kaji (Mon.), Feb.—Mar., 1917; J.H.M.

540. WEST AFRICAN RUFIOUS-CHESTED SWALLOW.

Hirundo semirufa gordonii Jard.

Resident—savana—not common.

MOUNTED.

- S.G.M. 1492, ♀, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

- *S.G.M. 1745, o ?, Kajo Kaji (Mon.), Apr., 1917, J.H.M.

541. SOUTH AFRICAN SMALLER STRIPED SWALLOW.

Hirundo abyssinica unitatis Scl. and Praed.

Resident—savana III and IV—fairly common.

MOUNTED.

S.G.M. 1487, ♂, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 1742, ♂ ?, Opari (Mon.), Feb., 1917, J.H.M.

*S.G.M. 1743, ♂, 1744, ♂, Kajo Kaji (Mon.), Apr., 1917, J.H.M.

542. HOUSE-MARTIN.

Delichon urbica (Linn.).

Passage migrant—throughout—common.

543. WHITE-HEADED ROUGH-WING.

Psalidoprocne albiceps Sal.

Resident—savana IV—fairly common.

MOUNTED.

S.G.M. 1480, ♂, 1507, ♂, Kajo Kaji (Mon.), Mar.—Apr., 1915, A.L.B., (A.L.B.).

SKINS.

*S.G.M. 1746, ♂, Kajo Kaji (Mon.), Apr., 1917, J.H.M.

Family—*DICRURIDÆ*.

544. SENEGAL GLOSSY-BACKED DRONGO.

Dicrurus adsimilis divaricatus (Licht.).

Resident—savana and arid (acacia-forest)—common.

MOUNTED.

S.G.M. 1475, ♀, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 760, ♀, Mt. Baginzi (B.G.), Mar., 1916, C.C.

*S.G.M. 761, ♂, Yei (Mon.), Nov., 1915, C.C.

*S.G.M. 1658, ♂, 1659, ♀, Kajo Kaji (Mon.), Jan., 1917, J.H.M.

*S.G.M. 1657, ♀, Makwar (B.N.), Nov., 1919, H.W.B.

S.G.M. 762, ♂, 763, ♂, Wad Medani (B.N.), Mar., 1922, H.W.B.

*S.G.M. 2345, ♀, Wad Medani (B.N.) Nov., 1923, W.W.B.

S.G.M. 2325, ♀, Rahad R. (B.N.), Mar., 1924, W.W.B.

S.G.M. 3028, ♂, 3029, ♀ Talodi (N.M.), Dec., 1925, J.W.C.

Family—*LANIIDÆ*.

KEY TO SPECIES.†

- | | | |
|----|---|--|
| 1. | { | Feathers of the lower back soft and fluffy; nostrils free from frontal bristles (<i>Malaconotinæ</i>) 2 |
| | | Feathers of lower back normal; nostrils at least partly concealed by frontal bristles (<i>Laniinæ</i>) ... 12 |
| 2. | { | Back and sides of tarsus covered with scales <i>Nilaus afer</i> , 545. |
| | | Back and sides of tarsus bilaminated 3 |
| 3. | { | No shade of green on upper parts ... 4 |
| | | Some green on upper parts 10 |

†—Adapted from Shelley's "Birds of Africa."

4. { No bright pink on lower back ... 5
 Lower back rosy pink; wing-coverts
 and upper parts pale brown ... *Rhodophoneus cruentus*, 554.
5. { Wings and their coverts black, or black
 and white in adults ... 6
 Wings more or less bright chestnut ... 8
6. { Rump not contrasting with the
 mantle; sexes alike ... 7
 Rump white or grey, contrasting with
 the mantle; sexes generally
 distinguishable ... *Dryoscopus gambensis*, 553.
7. { Under parts cream colour ... *Laniarius ferrugineus*, 552.
 Under parts bright crimson ... *Laniarius erythrogaster*, 551.
8. { Bill longer and more slender; outer
 tail-feathers broadly tipped with
 white; sexes alike ... 9
 Bill shorter and stouter; tail not
 broadly tipped with white; sexes
 differing ... *Antichromus minutus*, 548.
9. { Crown black ... *Tchagra senegala*, 546.
 Crown brown ... *Tchagra australis*, 547.
10. { Two proximal phalanges of the 3rd
 and 4th toes free and normal ... 11
 Two proximal phalanges of the 3rd
 and 4th toes united in a common
 sheath; secondaries and coverts
 spotted with pale yellow ... *Nicator chloris*, 555.
11. { Bill very large, stout and strongly
 hooked, not less than 0.4 inch deep;
 wing-coverts and quills tipped with
 yellow ... *Malaconotus poliocephalus*, 550.
 Bill moderate and less strongly
 hooked; a black band on the side
 of the head of the male ... *Chlorophoneus sulfureopectus*, 549.
12. { Top of head not streaked ... 13
 Top of head brown, with broad
 blackish shaft-stripes; tail-
 feathers narrow and strongly
 graduated ... *Corvinella corvina*, 565.
13. { Black on the head extending down
 the whole length of the neck and
 back ... 14
 Black on head never extending down
 the neck ... 16
14. { Bases of central tail-feathers black;
 wing not more than 4 ins. ... 15
 Bases of tail-feathers white; wing
 about 4.5 ins. ... *Fiscus excubitorius*, 563.
15. { Upper tail-coverts of the same colour
 as the back, hinder half of neck and
 crown ... *Fiscus nubicus*, 564.
 Rump and upper tail-coverts grey;
 crown and hinder half of neck
 black, or nearly so ... *Fiscus collaris*, 562.
16. { Adults with some rufous on the upper
 parts ... 17
 No rufous on the upper parts in
 adults; quills black, with some
 white bases; crown, hind neck and
 upper back mostly grey ... 20

17. { Tail not rufous 18
 Tail rufous *Otomela cristatus*, 559.
18. { Scapulars white; a bright rufous
 patch on the crown and hind neck *Phoneus senator*, 558.
 Scapulars rufous 19
19. { Larger; wing 3.5 ins. or over; with-
 out a white speculum *Enneoctonus collaris*, 556.
 Smaller; wing under 3.5 ins.; a
 white speculum on the wing *Enneoctonus gubernator*, 557.
20. { Outer primary short, barely extending
 beyond the primary-coverts *Lanius minor*, 561.
 Outer primary longer, about half the
 length of the second *Lanius excubitor*, 560.

Sub-family: MALACONOTINÆ.

545. NORTHERN BRUBRU SHRIKE.

Nilaus afer afer (Lath.).

Resident—savana and arid (acacia-forest)—common.

SKINS.

- *S.G.M. 529, ♀, 530, ♂, 531, ♂, 532, ♂, 533, ♂, Zeidab (Ber.), Mar.—May, 1921, H.W.B.
 *S.G.M. 2312, ♂, 2297, ♀, Wad Medani (B.N.), Sept.—Oct., 1923, H.W.B.
 S.G.M. 2736, ♂, Um Debeia (Ber.), July, 1924, W.W.B.
 S.G.M. 2515, ♂, 2516, ♂, 2517, ♀, 2518, ♀, 2519, ♂, Rahad R. (B.N.), Mar., 1924, W.W.B.
 *S.G.M. 2615, ♀, Shekela (Kor.), Jan., 1923, R.G.A.
 *S.G.M. 526, ♂, Meridi (B.G.), Feb., 1916, C.C.
 *S.G.M. 527, ♀, Yambio (B.G.), Mar., 1916, C.C.
 S.G.M. 2952, ♂, Mongalla, Jan., 1925, H.H.K.

546a. CAMEROON BLACK-HEADED TCHAGRA.

Tchagra senegala camerunensis (Neum.).

Resident—savana IV—common.

SKINS.

- S.G.M. 515, ♂, 516, ♀, 517, ♂, Meridi (B.G.), Jan.—Feb., 1916, C.C.
 †S.G.M. 518, ♀, Yei (Mon.), Nov., 1915, C.C.
 †S.G.M. 1970, ♂, 1971, ♂, 1972, ♀, 1973, ♂, Kajo Kaji (Mon.), Jan.—Mar., 1917, J.H.M.
 †S.G.M. 1974, ♂, Opari (Mon.), Feb., 1917, J.H.M.

546b. SUDAN BLACK-HEADED TCHAGRA.

Tchagra senegala erlangeri Neum.

Resident—savana II and III—common.

MOUNTED.

- S.G.M. 1338, ♂, 1351, ♀, Mongalla, summer 1914, A.L.B. (A.L.B.).

SKINS.

- *S.G.M. 1968, ♂, Mongalla, Aug., 1919, J.S.H.
 *S.G.M. 1969, ♂, Simsimia (Mon.), Aug., 1919, J.S.H.

†—Birds from the Bahr el Jebel region are intermediate between this form and the following.

546c. SANDY BLACK-HEADED TCHAGRA.

Tchagra senegalata remegialis (Hartl. & Fisch.).

Resident—savana I and arid—common.

MOUNTED.

S.G.M. 1355, ♂, Fatasha (Kor.), Nov., 1914, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 519, ♀, El Obeid (Kor.), Aug., 1921, J.E.M.M.

*S.G.M. 520, ♂, Zeidab (Ber.), May, 1921, J.E.M.M.

*S.G.M. 521, ♀, Zeidab (Ber.), Mar., 1921, H.W.B.

S.G.M. 2737, ♂, 2738, ♂, Atbara (Ber.), July, 1924, W.W.B.

S.G.M. 2739, ♂, Gendettu (Ber.), Aug., 1924, W.W.B.

S.G.M. 2746, ♂, Kitiab (Ber.), Nov., 1924, W.W.B.

*S.G.M. 2417, ♀, 2418, ♂, Rahad R. (B.N.), Dec., 1923, W.W.B.

S.G.M. 2509, ♂, 2512, ♂, 2513, ♂, 2514, ♂, Rahad R. (B.N.), Mar.—Apr., 1924, W.W.B.

S.G.M. 3132, ♂, Talodi (N.M.), Feb., 1926, J.W.C.

547. UGANDA BROWN-HEADED TCHAGRA.

Tchagra australis emini (Reichw.).

Resident—savana III and IV—rare.

548. BLACKCAP BUSH-SHRIKE.

Antichromus minutus minutus Hartl.

Resident—savana—common.

MOUNTED.

S.G.M. 1463, ♂, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 522, ♂, 523, ♂, Meridi (B.G.), Jan.—Feb., 1916, C.C.

*S.G.M. 524, ♂, Yambio (B.G.), Mar., 1916, C.C.

S.G.M. 2953, ♂, Rejaf (Mon.), Jan., 1925, H.H.K.

549. SOUTHERN SULPHUR-BREASTED BUSH-SHRIKE.

Chlorophoneus sulfureopectus similis (Smith).

Resident—savana—fairly common.

MOUNTED.

S.G.M. 1851, ♂, Mongalla, Jan., 1910, A.L.B. (Sheals).

SKINS.

*S.G.M. 498, ♀, 499, ♀, 500, ♂, 501, ♂, Meridi (B.G.), Jan., 1916, C.C.

*S.G.M. 502, ♂, 503, ♂, 504, ♂, Yambio (B.G.), Mar., 1916, C.C.

S.G.M. 2957, ♀, 2958, ♂, Rejaf (Mon.), Jan., 1925, H.H.K.

550. NILE GREY-HEADED BUSH-SHRIKE.

Malaconotus poliocephalus catharoxanthus Neum.

Resident—savana—fairly common.

MOUNTED.

S.G.M. 1547, ♂ ?, Yambio (B.G.), 1917—1918, G.F.M. (R.C.).

SKINS.

*S.G.M. 493, ♀, 494, ♂, 495, ♂, Meridi (B.G.), Jan.—Feb., 1916, C.C.

*S.G.M. 496, ♀, 497, ♂, Yambio (B.G.), Mar., 1916, C.C.

551. ABYSSINIAN GONOLEK.

Laniarius erythrogaster (Cretz.).

Resident—savana and arid (acacia-forest)—very common.

MOUNTED.

S.G.M. 1064, ♂, Sobat R. (U.N.), May, 1909, A.L.B. (A.L.B.).
S.G.M. 1063, ♀, Jebel Ain (W.N.), May, 1909, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 1952, ♂, 1953, ♂, Bor (Mon.), July, 1919, J.S.H.
*S.G.M. 1954, ♂, 1955, ♀, 1956, ♂, 1957, ♂, 1958, ♂ ?, 1959, ♂, 1960, ♂, Kajo Kaji (Mon.), Jan. and Apr., 1917, J.H.M.
*S.G.M. 482, ♀, 483, ♂, Wau (B.G.), July—Aug., 1916, C.C.
S.G.M. 2520, ♂, 2521, ♀, 2522, ♀, 2523, ♀, 2524, ♀, Rahad R. (B.N.), Mar., 1924, W.W.B.
S.G.M. 2734, ♀, 2735, ♂, Atbara (Ber.), July, 1924, W.W.B.

552a. WEST AFRICAN BOUBOU.

Laniarius ferrugineus major (Hartl.).

Resident—savana III and IV—common.

MOUNTED.

S.G.M. 1446, ♀, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 505, ♀, Yambio (B.G.), Mar., 1916, C.C.
*S.G.M. 506, ♀, 507, ♂, Meridi (B.G.), Jan.—Feb., 1916, C.C.
*S.G.M. 508, ♂, Wau (B.G.), July—Aug., 1916, C.C.
*S.G.M. 1951, ♂, Kajo Kaji (Mon.), Apr., 1917, J.H.M.

552b. ABYSSINIAN BOUBOU.

Laniarius ferrugineus aethiopicus (Gmel.).

Resident—savana II and arid (acacia-forest)—fairly common.

553a. BAHR-EL-GHAZAL PUFF-BACK.

Dryoscopus gambensis malzacii (Heugl.).

Resident—savana I, III and IV—common.

MOUNTED.

S.G.M. 1453, ♂, 1498, ♂ j, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 509, ♀, Wau (B.G.), July—Aug., 1916, C.C.
*S.G.M. 510, ♀, 513, ♀, 514, ♂, Meridi (B.G.), Jan.—Feb., 1916, C.C.
*S.G.M. 511, ♂, 512, ♂, Yambio (B.G.), Mar., 1916, C.C.
*S.G.M. 1940, ♂ ?, 1941, ♂, 1942, ♂ ?, Opari (Mon.), Feb., 1917, J.H.M.
*S.G.M. 1943, ♀, 1944, ♀, 1945, ♀, Kajo Kaji (Mon.), Feb. and Apr., 1917, J.H.M.
S.G.M. 2956, ♂, Rejaf (Mon.), Jan., 1925, H.H.K.

553b. ERITREAN PUFF-BACK.

Dryoscopus gambensis erythrae Neum.

Resident—savana II—common.

554a. ROSY-PATCHED SHRIKE.

Rhodophoneus cruentus cruentus (Hemp. and Ehr.).

Resident—arid (Red Sea)—common.

MOUNTED.

S.G.M. 1060, ♂, Jebel Okokweb (R.S.), Mar., 1912, A.L.B. (Sheals).
S.G.M. 1061, ♀, Jebel Karbosh (R.S.), Mar., 1912, A.L.B. (Sheals).

SKINS.

*S.G.M. 1950, ♀, Erkowit (R.S.), Aug., 1919, J.S.H.
S.G.M. 2752, ♂, 2753, ♀, Erkowit (R.S.), Sept., 1924, W.W.B.
S.G.M. 2754, ♀, 2755, ♂, 2756, ♂, 2757, ♀, Sinkat (R.S.), Sept., 1924, W.W.B.
S.G.M. 3011, ♂, Sinkat (R.S.), July, 1925, H.B.J.
S.G.M. 3012, ♂, Khor Okwat (R.S.), July, 1925, H.B.J.
S.G.M. 3248, ♀, 3249, ♂, 3250, ♂ j, Khor Hanoyeit (R.S.), Mar., 1926, H.B.J.

554b. KORDOFAN ROSY-PATCHED SHRIKE.

Rhodophoneus cruentus kordofanicus Scl. and Praed.

Resident—arid (Kordofan)—not common.

555. WEST AFRICAN NICATOR.

Nicator chloris chloris (Valenc.).

Resident—savana IV—not common.

SKINS.

*S.G.M. 525, ♂, Yambio (B.G.), Mar., 1916, C.C.

Sub-family LANIINÆ.

556. RED-BACKED SHRIKE.

Enneoctonus collurio (Linn.).

Winter visitor—savana—common.

MOUNTED.

S.G.M. 1072, ♂ j, 1073, ♂, 1075, ♂, 1076, ♂ j, Khartoum, Sept., 1913, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 1946, ♂, 1947, ♀, Erkowit (R.S.), Aug., 1919, J.S.H.
S.G.M. 2742, ♀, 2743, ♂, 2744, ♂, 2745, ♂, Erkowit (R.S.), Aug., 1924, W.W.B.
*S.G.M. 550, ♀, 551, ♀, Khartoum, Sept., 1921, W.W.B.
*S.G.M. 552, ♀, 553, ♀, Khartoum, Sept., 1921, R.C.
*S.G.M. 866, ♀, Arab Hag (Don.), Oct., 1922, H.H.K.
*S.G.M. 2315, o ?, 2317, ♂, 2264, ♂, Wad Medani (B.N.), Sept., 1923, H.W.B.

557. EMIN'S RED-BACKED SHRIKE.

Enneoctonus gubernator gubernator (Hartl.).

Resident—savana III and IV—fairly common.

SKINS.

*S.G.M. 491, ♂, 492, ♂, Yei (Mon.), Nov., 1915, C.C.

558a. WOODCHAT.

Phoneus senator senator (Linn.).

Winter visitor—throughout, but mostly in extreme west—common.

SKINS.

*S.G.M. 2356, ♀, Hosh (B.N.), Feb., 1923, W.W.B.

558b. EASTERN WOODCHAT.

Phoneus senator niloticus (Bp.).

Winter visitor—throughout—very common.

MOUNTED.

S.G.M. 1428, ♀, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 3222, ♂, Meridi (B.G.), Jan., 1916, C.C.

*S.G.M. 1975, ♂, 1976, ♀, 1977, ♀, Kajo Kaji (Mon.), Mar.—Apr., 1917, J.H.M.

*S.G.M. 2185, ♂, 2186, ♀, 2187, ♂, 2188, ♂, Khartoum, Sept., 1921, R.C.

S.G.M. 3223, ♂, Wad Medani (B.N.), Oct., 1925, H.H.K.

*S.G.M. 2287, ♂, 2111, ♀, Wad Medani (B.N.), Sept., 1923, H.W.B.

*S.G.M. 2269, ♀, 2357, ♂, 2346, ♀, Wad Medani (B.N.), Nov.—Dec., 1923, W.W.B.

S.G.M. 2746, ♂ j, 2747, ♂, 2748, ♂, 2749, ♀, 2750, ♀, Erkowit (R.S.), Aug.—Sept., 1924, W.W.B.

S.G.M. 2751, ♂, Sinkat (R.S.), Sept., 1924, W.W.B.

559a. PALE RED-TAILED SHRIKE.

Otomela cristatus isabellinus (Hemp. and Ehr.).

Winter visitor—throughout—common.

MOUNTED.

S.G.M. 1068, ♂, Khartoum, Jan., 1913, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 2177, ♂, Zeidab (Ber.), Feb., 1921, H.W.B.

S.G.M. 2464, ♂, Wad Medani (B.N.), Apr., 1924, W.W.B.

559b. RUFIOUS RED-TAILED SHRIKE.

Otomela cristatus phaenicuroides Schal.

Winter visitor—occurrence doubtful.

560a. BISKARA GREY SHRIKE.

Lanius excubitor elegans Swains.

Resident—Red Sea Province—not common.

560b. PALE-BILLED GREY SHRIKE.

Lanius excubitor pallidirostris, Cass.

Winter visitor—arid—common.

MOUNTED.

S.G.M. 1067, ♂, Khartoum, Dec., 1912, A.L.B. (A.L.B.).

SKINS.

- *S.G.M. 539, ♂, Letti basin (Don.), Dec., 1920, H.H.K.
 *S.G.M. 540, ♀, Meganda (Don.), Dec., 1920, H.H.K.
 *S.G.M. 541, ♂, Genetti (Don.), Jan., 1921, H.H.K.

560c. AUCHER'S GREY SHRIKE.

Lanius excubitor aucheri, Bp.

Winter visitor†—arid—common.

SKINS.

- *S.G.M. 542, ♀, Tangassi I. (Don.), Oct., 1920, H.H.K.
 *S.G.M. 543, ♀, Zeidab (Ber.), June, 1921, W.E.G.
 S.G.M. 1930, ♀, Erkowit (R.S.), Sept., 1919, J.S.H.
 S.G.M. 2758, ♂, Erkowit (R.S.), Aug., 1924, W.W.B.

560d. JEBEL MARRA GREY SHRIKE.

Lanius excubitor jebelmarrae, Lynes.

Resident—only known from Jebel Marra (Dar.).

560e. WHITE-RUMPED GREY SHRIKE.

Lanius excubitor leucopygos, Ehr.

Resident—arid—common.

MOUNTED.

- S.G.M. 1066, ♂, Khartoum, Dec., 1912, A.L.B. (A.L.B.).

561. LESSER GREY SHRIKE.

Lanius minor, Gmel.

Winter visitor—throughout—common.

SKINS.

- *S.G.M. 2265, ♂, 2268, ♂, Wad Medani (B.N.), Sept., 1923, H.W.B.
 *S.G.M. 1928, ♀, 1929, ♂, Khartoum, Sept.—Oct., 1919, R.C.
 *S.G.M. 537, ♂, 538, ♂, Khartoum, Sept., 1922, W.W.B.
 S.G.M. 2759, ♂, 2760, ♀, 2761, ♂, 2762, ♂, Erkowit (R.S.), Aug.—Sept., 1924,
 W.W.B.
 S.G.M. 3220, ♂, 3221, ♀, Khartoum, Sept., 1925, H.H.K.

562. WEST AFRICAN FISCAL-SHRIKE.

Fiscus collaris smithii (Fraser).

Resident—savana III and IV—fairly common.

SKINS.

- ‡*S.G.M. 489, ♂, 490, ♀, Yei (Mon.), Dec., 1915, C.C.

†—Said to breed on Dahlak Island in the Red Sea.

‡—Birds from the Lado country are mostly intermediate between this form and *F. c. humeralis*.

563. GREY-BACKED FISCAL-SHRIKE.

Fiscus excubitorius excubitorius (Prév. and des Murs.).

Resident—savana—abundant.

MOUNTED.

S.G.M. 1477, ♂, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).
S.G.M. 1548, ♀ j, Torit (Mon.), Nov., 1917, J.H.R.Y. (R.C.).

SKINS.

*S.G.M. 1965, ♂, Torit (Mon.), Nov., 1917, J.H.R.Y.
*S.G.M. 1549, ♂, Kajo Kaji (Mon.), Apr., 1917, J.H.R.Y.
*S.G.M. 1961, ♂, 1962, ♂, 1963, ♂, 1964, ♀, Kajo Kaji (Mon.), J.H.M.

564. NUBIAN FISCAL-SHRIKE.

Fiscus nubicus (Licht.).

Winter visitor (partial resident)—arid—common.

MOUNTED.

S.G.M. 1069, ♀, 1070, ♂ j, 1071, ♂, Khartoum, Jan. and Sept., 1913, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 544, ♂, Jijenarti (Don.), Jan., 1921, H.H.K.
*S.G.M. 545, ♀, 546, ♂, 547, ♂, Zeidab (Ber.), Feb., 1921, H.W.B.
*S.G.M. 2324, ♀, Wad Medani (B.N.), Sept., 1923, H.W.B.
*S.G.M. 3224, ♀, Wad Medani (B.N.), Dec., 1923, W.W.B.
*S.G.M. 548, ♂, 549, ♂, Khartoum, Sept., 1922, W.W.B.
*S.G.M. 2175, ♂, Khartoum, Dec., 1922, R.C.
*S.G.M. 1966, ♀, Erkowit (R.S.), Aug., 1919, J.S.H.
S.G.M. 2714, ♂, Erkowit (R.S.), Sept., 1924, W.W.B.

565. SUDAN YELLOW-BILLED SHRIKE.

Corvinella corvina affinis Hartl.

Resident—savana—common.

MOUNTED.

S.G.M. 1082, ♀, 1083, ♂, El Ein Station (Kor.), Mar., 1914, A.L.B. (A.L.B.).
S.G.M. 1582, ♂, Ikoto (Mon.), Mar., 1918, J.H.R.Y. (R.C.).

SKINS.

*S.G.M. 1925, ♂, Moruto (Mon.), Jan., 1918, J.H.R.Y.
*S.G.M. 1924, ♀, Rudu (Mon.), Feb., 1917, J.H.M.
*S.G.M. 480, ♀, Mt. Baginzi (B.G.), Mar., 1916, C.C.
*S.G.M. 481, ♀, Wau (B.G.), July—Aug., 1916, C.C.

Family PRIONOPIDÆ.

KEY TO SPECIES.

- | | | |
|---|---------------------------------------|--|
| { | A distinct crest, or helmet on top of | |
| | head | ... <i>Prionops concinnata</i> , 566. |
| { | No crest on head | ... <i>Eurocephalus rueppelli</i> , 567. |

566. NILE HELMET-SHRIKE.

Prionops concinnata Sund.

Resident—savana—common.

MOUNTED.

S.G.M. 1299, ♀, 1300, ♂, Mongalla, Aug., 1914, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 1921, ♀, 1922, ♂, Torit (Mon.), Sept., 1918, J.H.R.Y.

*S.G.M. 476, ♂, 477, ♂, Yambio (B.G.), Mar., 1916, C.C.

*S.G.M. 478, ♀, 479, ♂, Mt. Baginzi (B.G.), Mar., 1916, C.C.

S.G.M. 3134, ♀, 3135, ♀, 3136, ♂, 3137, ♂, Talodi (N.M.), Dec., 1925, J.W.C.

567. SUDAN WHITE-CROWNED SHRIKE.

Eurocephalus rueppelli rueppelli Bp.

Resident—savana III—fairly common.

MOUNTED.

S.G.M. 1328, ♂, 1329, ♀, Mongalla, July, 1914, A.L.B. (A.L.B.).

SKINS.

S.G.M. 2954, ♀, 2955, ♀, Rejaf (Mon.), Jan., 1925, H.H.K.

Family PARIDÆ.

KEY TO SPECIES.

1. { Plumage mostly black *Parus niger*, 568.
Plumage not mostly black 2
2. { Forehead mottled with black ... 3
Forehead brown like the upper parts *Anthoscopus musculus*, 569.
3. { Throat and breast whitish *Anthoscopus punctifrons*, 570.
Throat and breast bright yellow *Anthoscopus parvulus*, 571.

568a. UGANDA BLACK TIT.

Parus niger purpurascens van Som.

Resident—savana I, III and IV—common.

MOUNTED.

S.G.M. 1424, ♂, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 2049, ♂, 2050, ♂, 2051, ♂, 2052, ♂, 2053, ♂, 2054, ♂, Kajo Kaji (Mon.), Jan—Apr., 1917, J.H.M.

*S.G.M. 3216, ♂, Yei (Mon.), Nov., 1915, C.C.

*S.G.M. 3217, ♀, 3218, ♂, 3219, ♀, Yambio (B.G.), Mar., 1916, C.C.

S.G.M. 3126, ♀, 3128, ♂, 3131, ♂, Talodi (N.M.), Dec., 1925—Feb., 1926, J.W.C.

568b. ABYSSINIAN BLACK TIT.

Parus niger leucomelas Rüpp.

Resident—savana II—common.

MOUNTED.

S.G.M. 1283, ♀, Roseires (Fung), July, 1910, A.L.B. (A.L.B.).

569. MOUSE-COLOURED CAPPOC-TIT.

Anthoscopus musculus (Hartl.).

Resident—savana—not common.

MOUNTED.

S.G.M. 1382, ♂, Lado (Mon.), Feb., 1915, A.L.B. (A.L.B.).

570. SENNAR CAPPOC-TIT.

Anthoscopus punctifrons (Sund.).

Resident—savana and arid (acacia-forest)—common.

MOUNTED.

S.G.M. 1269, ♂, 1270, ♀, Kosti (W.N.), Jan., 1914, and June, 1909, A.L.B. (A.L.B.).

571. YELLOW CAPPOC-TIT.

Anthoscopus parvulus parvulus (Heugl.).

Resident—savana III and IV—rare.

Family *CERTHIIDÆ*.

572. SPOTTED CREEPER.

Salpornis spilonota emini Hartl.

Resident—savana III—fairly common.

Family *ORIOOLIDÆ*.

- | | | | | |
|----|---|--|--------|----------------------------------|
| 1. | { | Head black, or at least with traces of black | | <i>Oriolus monacha</i> , 575. |
| | | Head not black | | 2 |
| 2. | { | Upper parts bright yellow; wings black | | 3 |
| | | Upper parts greenish olive; wings brown | | 4 |
| 3. | { | A black patch in front of eye only; upper wing-coverts black | | <i>Oriolus oriolus</i> , ♂, 573. |
| | | A black patch behind as well as in front of eye; upper wing-coverts yellow | | <i>Oriolus auratus</i> , ♂, 574. |
| 4. | { | Larger; wing over 5.75 inches | | <i>Oriolus oriolus</i> , ♀, 573. |
| | | Smaller; wing under 5.75 inches | | <i>Oriolus auratus</i> , ♀, 574. |

573. EUROPEAN GOLDEN ORIOLE.

Oriolus oriolus oriolus (Linn.).

Passage migrant—throughout—very common.

MOUNTED.

S.G.M. 1135, ♂ j, 1136, ♂ j, Khartoum, Sept., 1913, A.L.B. (A.L.B.).

SKINS.

S.G.M. 756, ♀, El Arian (Don.), Oct., 1920, H.H.K.

S.G.M. 754, ♂, 755, ♀, 900, ♂, Zeidab (Ber.), Apr.—May, 1921, W.E.G.

S.G.M. 2569, ♀, Erkowit (R.S.), Sept., 1924, W.W.B.

S.G.M. 757, ♀, Khartoum, Sept., 1922, W.W.B.

S.G.M. 3202, ♂, Khartoum, Sept., 1925, H.H.K.

*S.G.M. 752, ♀, 753, ♂, Mt. Baginzi (B.G.), Mar., 1916, C.C.

*S.G.M. 2149, ♂, Malek (Mon.), A.S.

574. SENEGAL GOLDEN ORIOLE.

Oriolus auratus auratus Vieill.

Resident—savana—abundant.

SKINS.

- *S.G.M. 893, ♂, Yei (Mon.), Dec., 1915, C.C.
 *S.G.M. 895, ♀, Meridi (B.G.), Jan., 1916, C.C.
 *S.G.M. 894, ♀, 897, ♂, Mt. Baginzi (B.G.), Mar., 1916, C.C.
 *S.G.M. 896, ♂, Wau (B.G.), July—Aug., 1916, C.C.
 S.G.M. 898, ♀, 899, ♂, Torit (Mon.), Sept., 1918, J.H.R.Y.
 S.G.M. 3030, ♂, Talodi (N.M.), Jan., 1926, J.W.C.

575. SUDAN BLACK-HEADED ORIOLE.

Oriolus monacha rolleti Salvad.

Resident—savana—common.

MOUNTED.

- S.G.M. 1532, ♂, Ikoto (Mon.), Feb., 1918, J.H.R.Y. (R.C.).

SKINS.

- *S.G.M. 1654, ♀, 1655, ♀, Opari (Mon.), Feb., 1917, J.H.M.
 *S.G.M. 1656, ♀, 758, ♂, 759, ♂, Ikoto (Mon.), Feb., 1918, J.H.R.Y.

Family CORVIDÆ.

KEY TO SPECIES.

- | | |
|----|--|
| 1. | { Tail longer than wing <i>Ptilostomus afer</i> , 576. |
| | { Tail shorter than wing 2 |
| 2. | { Plumage black and white <i>Corvus albus</i> , 578. |
| | { Plumage black 3 |
| 3. | { Bill very deep, whitish at tip <i>Corvultur crassirostris</i> , 581. |
| | { Bill less deep, black throughout 4 |
| 4. | { Head and neck dull, brownish black <i>Corvus corax</i> , 577. |
| | { Head and neck steely blue-black 5 |
| 5. | { Tail less than half the length of wing ;
difference between longest primary
and longest secondary less than 1/3
length of wing <i>Rhinocorax rhipidurus</i> , 580. |
| | { Tail more than half the length of
wing ; difference between longest
primary and longest secondary
more than 1/3 length of wing <i>Corvus capensis</i> , 579. |

576. PIAPIAC.

Ptilostomus afer (Linn.).

Resident—savana—common.

MOUNTED.

- S.G.M. 1134, ♀, Taufikia (U.N.), Mar., 1909, A.L.B. (A.L.B.).

SKINS.

- S.G.M. 767, ♂, 768, ♀, Wau (B.G.), July—Aug., 1919, C.C.
 S.G.M. 769, ♂, Taufikia (U.N.), July, 1920.
 S.G.M. 3026, ♂, 3027, ♀, Talodi (N.M.), Dec., 1925, J.W.C.

577. BROWN-NECKED RAVEN.

Corvus corax ruficollis Less.

Resident—arid—very common.

MOUNTED.

S.G.M. 1564, ♀, Khartoum, Dec., 1919, R.C. (R.C.).

SKINS.

*S.G.M. 766, ♀, Afiat (Don.), Jan., 1920, H.H.K.

S.G.M. 765, ♂, Genetti (Don.), Dec., 1920, H.H.K.

S.G.M. 971, ♀, Tokar (R.S.), June, 1923, W.W.B.

S.G.M. 3000, ♀, 3001, ♂, 3002, ♀, 3005, ♀, Khartoum, June, 1925, H.B.J.

578. PIED CROW.

Corvus albus Müll.

Resident—throughout—abundant.

MOUNTED.

S.G.M. 1577, ♀, 1578, ♂, Khartoum, Dec., 1919, R.C. (R.C.).

SKINS.

*S.G.M. 1681, ♂, 1682, ♀, Wad Medani (B.N.), Sept., 1919, H.W.B.

S.G.M. 2920, ♂, Wad Medani (B.N.), June, 1924, W.W.B.

579. LESSER CAPE ROOK.

Corvus capensis kordofanicus Laubm.

Resident—savana—fairly common.

580. FAN-TAILED RAVEN.

Rhinocorax rhipidurus Hart.

Resident—throughout (jebels)—common.

SKINS.

S.G.M. 2561, ♂, 2562, ♀, 2564, ♂, 2565, ♀, 2568, ♀, Erkowit (R.S.), Sept., 1924, W.W.B.

581. THICK-BILLED RAVEN.

Corvultur crassirostris (Rüpp.).

Wanderer—recorded from Fung and Kassala Provinces.

Family : *STURNIDÆ*.

KEY TO SPECIES.

- | | | | | | | |
|----|---|------------------------|-----|----------|-----|---------------------------------------|
| 1. | { | Bill and feet pink | ... | ... | ... | <i>Hypocolius ampelinus</i> , 597. |
| | { | Bill and feet not pink | ... | ... | ... | 2 |
| 2. | { | Primaries cinnamon | or | bright | | |
| | { | chestnut | ... | ... | ... | 3 |
| | { | Primaries not cinnamon | or | chestnut | | 4 |
| 3. | { | Bill white | ... | ... | ... | <i>Ptilorhinus albirostris</i> , 589. |
| | { | Bill black | ... | ... | ... | <i>Onychognathus morio</i> , 584. |

- | | | | |
|-----|---|--|--|
| 4. | { | With either the whole head bare or with at least bare spaces round the eyes and on sides of throat. Adult breeding male with conspicuous facial wattles | <i>Creatophora carunculata</i> , 582. |
| | { | Head completely feathered | 5 |
| 5. | { | Abdomen deep chestnut | 7 |
| | { | Abdomen white or tinged with cinnamon | 6 |
| | { | Abdomen black with metallic gloss | 8 |
| 6. | { | Chest and upper parts metallic violet | <i>Cinnyricinclus leucogaster</i> , 585. |
| | { | Chest white, upper parts steel blue | <i>Pholia sharpei</i> , 586. |
| 7. | { | Under tail-coverts white | <i>Spreo superbus</i> , 588. |
| | { | Under tail-coverts chestnut | <i>Spreo pulcher</i> , 587. |
| 8. | { | Tail shorter than the wing; head coloured like the rest of the upper parts | 9 |
| | { | Tail as long as, or longer than, the wing; head metallic bronze-green, contrasting with the rest of the plumage | 13 |
| 9. | { | Throat and breast glossed with metallic violet | 10 |
| | { | Throat and breast glossed with metallic green or blue | 11 |
| 10. | { | Smaller, wing under 6 ins.; top of head metallic violet | <i>Lamprocolius purpureus</i> , 593. |
| | { | Larger, wing over 6 ins.; top of head metallic green | <i>Lamprocolius splendidus</i> , 594. |
| 11. | { | Tail glossed with metallic violet or bronze above | <i>Lamprocolius chalcurus</i> , 591. |
| | { | Tail glossed with metallic green above | 12 |
| 12. | { | Larger, wing over 5 ins.; ear-coverts not sharply defined | <i>Lamprocolius chalybeus</i> , 590. |
| | { | Smaller, wing under 5 ins.; ear-coverts sharply defined in colour | <i>Lamprocolius chloropterus</i> , 592. |
| 13. | { | Back of neck metallic green | <i>Lamprotornis caudatus</i> , 595. |
| | { | Back of neck metallic purple | <i>Lamprotornis purpuropterus</i> , 596. |

Sub-family: *STURNINÆ*.

582. WATTLED STARLING.

Creatophora carunculata (Gmel.).

Resident—savana—not common.

MOUNTED.

S.G.M. 1465, ♂, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 1660, ♂, 1828, ♂, Kajo Kaji (Mon.), Mar., 1917, J.H.M.

Sub-family: *EULABETINÆ*.

583. HARTLAUB'S CHESTNUT-WING.

Onychognathus fulgidus hartlaubii Gray.

Resident—savana IV—not common.

584a. ABYSSINIAN RED-WING.

Onychognathus morio rüppellii (Verr.).

Resident—savana II—common.

MOUNTED.

S.G.M. 1027, ♂, 1028, ♀, Jebel Fazogli (Fung), May, 1911, A.L.B. (A.L.B.).

584b. NIGERIAN RED-WING.

Onychognathus morio neumanni (Alex.).

Resident—savana I, III and IV—common.

585a. ABYSSINIAN VIOLET-BACKED STARLING.

Cinnyricinclus leucogaster leucogaster (Gm.).

Resident—savana and Red Sea hills—common.

MOUNTED.

†S.G.M. 1030, ♂, Wau (B.G.), Apr., 1908, A.L.B. (A.L.B.).

SKINS.

†*S.G.M. 747, ♀, 748, ♂, 749, ♂, 750, ♂ j, 751, ♀ j, Wau (B.G.), July—Aug., 1916, C.C.

†*S.G.M. 1672, ♂, 1673, ♂, 1819, ♂, 1820, ♂, 1821, ♀ j, 1822, ♀ j, Kajo Kaji (Mon.), Jan.—Mar., 1917, J.H.M.

S.G.M. 2570, ♂, 2571, ♀ j, 2572, ♀ j, Erkwit (R.S.), Aug., 1924, W.W.B.

585b. EASTERN VIOLET-BACKED STARLING.

Cinnyricinclus leucogaster lauragrayæ Bowen.

Wanderer—rare.

MOUNTED.

‡S.G.M. 1307, ♂, Mongalla, Aug., 1914, A.L.B. (A.L.B.).

586. SHARPE'S STARLING.

Pholia sharpii (Jackson).

Resident—highland I—not common.

SKINS.

*S.G.M. 2965, ♂, Imatong (Mon.), Feb., 1925, H.H.K.

587. CHESTNUT-BELLIED STARLING.

Spreo pulcher (Müller).

Resident—arid—very common.

MOUNTED.

S.G.M. 1033, ♀, Sennar (B.N.), Mar., 1913, A.L.B. (A.L.B.).

SKINS.

S.G.M. 745, ♂, 746, ♀, Zeidab (Ber.), Mar., 1921, W.E.G.

S.G.M. 2573, ♂, Gendettu (Ber.), Oct., 1925, W.W.B.

S.G.M. 2921, ♂, Rahad R. (B.N.), June, 1924, W.W.B.

†—Specimens from the southern Sudan are sometimes slightly larger than those from Senegal, and are therefore intermediate between this and the Abyssinian form, *C. L. friedmanni* Bowen.

‡—The only record from the Sudan.

588. SUPERB STARLING.

Spreo superbus (Rüpp.).

Resident—savana—common.

MOUNTED.

S.G.M. 1311, ♀, 1312, ♂, Mongalla, Aug., 1914, A.L.B. (A.L.B.).

SKINS.

S.G.M. 1674, ♂, Kajo Kaji (Mon.), J.H.M.

S.G.M. 1675, ♂, Torit (Mon.), Aug., 1919, J.H.R.Y.

589. WHITE-BILLED CHESTNUT-WING.

Pilorhinus albirostris (Rüpp.).

Recorded from the Sudan—probably erroneously.

590. GREEN GLOSSY STARLING.

Lamprocolius chalybeus chalybeus (Hemp. and Ehr.).

Resident—throughout—common.

MOUNTED.

S.G.M. 1031, ♂, Khartoum, Dec., 1913, A.L.B. (A.L.B.).

S.G.M. 1032, ♀, Ain el Shams, Dinder R. (Fung), Mar., 1913, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 2166, ♂, 2170, ♂, Shekela (Kor.), Jan., 1923, R.G.A.

S.G.M. 3034, ♂, 3035, ♂, 3036, ♀, Talodi (N.M.), Dec., 1925—Jan., 1926, J.W.C.

591. NILE BRONZE-TAILED GLOSSY STARLING.

Lamprocolius chalcurus emini Neum.

Resident—savana III and IV—common.

MOUNTED.

S.G.M. 1403, ♂, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 1661, ♂, 1662, ♂, 1663, ♀, 1827, ♂, Kajo Kaji (Mon.), Jan., 1917, J.H.M.

*S.G.M. 737, ♀, 738, ♂, 739, ♂, Yei (Mon.), Nov., 1915, C.C.

*S.G.M. 740, ♂, Yambio (B.G.), Mar., 1916, C.C.

592a. GOLD COAST BLUE-EARED GLOSSY STARLING.

Lamprocolius chloropterus chloropterus (Swains.).

Resident—savana IV—fairly common.

SKINS.

*S.G.M. 734, ♂, 735, ♀, 736, ♀, Mt. Baginzi (B.G.), Mar., 1916, C.C.

*S.G.M. 1669, ♂, 1670, ♂, Bor. (Mon.), July, 1919, J.S.H.

*S.G.M. 1671, ♂, Opari (Mon.), Feb., 1917, J.H.M.

S.G.M. 3031, ♂, 3032, ♂, 3033, ♂, Talodi (N.M.), Dec., 1925, J.W.C.

592b. SENNAR BLUE-EARED GLOSSY STARLING.

Lamprocolius chloropterus cyanogenys Sund.

Resident—savana II and arid (acacia-forest) East—fairly common.

SKINS.

*S.G.M. 2275, ♂, 2304, ♂, Wad Medani (B.N.), Aug. and Oct., 1923, H.W.B.
S.G.M. 2922, ♂, 2923, ♂, 2924, ♂, Rahad R. (B.N.), June, 1924, W.W.B.

593. NILE PURPLE GLOSSY STARLING.

Lamprocolius purpureus amehystinus (Heugl.).

Resident—savana—common.

MOUNTED.

S.G.M. 1521, ♂, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 741, ♀, Yei (Mon.), Nov., 1915, C.C.
*S.G.M. 1825, ♂, 1826, ♂, Kajo Kaji (Mon.), Apr., 1917, J.H.M.

594. SPLENDID GLOSSY STARLING.

Lamprocolius splendidus splendidus (Vieill.).

Resident—savana IV—fairly common.

SKINS.

*S.G.M. 743, ♂, Mt. Baginzi (B.G.), Mar., 1916, C.C.

595. LONG-TAILED GLOSSY STARLING.

Lamprotornis caudatus (Müll.).

Resident—savana I—common.

SKINS.

*S.G.M. 744, ♀, Wau (B.G.), July—Aug., 1916, C.C.

596a. RUPPELL'S LONG-TAILED GLOSSY STARLING.

Lamprotornis purpuropterus purpuropterus Rüpp.

Resident—savana III and IV—fairly common.

MOUNTED.

S.G.M. 1366, ♂, Kaka (Kord.), Feb., 1915, A.L.B. (A.L.B.).

S.G.M. 1529, ♂, Torit (Mon.), Sept., 1917, J.H.R.Y. (R.C.).

SKINS.

*S.G.M. 1664, ♀, 1665, ♀, 1666, ♀, Kajo Kaji (Mon.), Jan., 1917, J.H.M.

*S.G.M. 1667, ♀, Torit (Mon.), Nov., 1917, J.H.R.Y.

*S.G.M. 1668, ♂, Torit (Mon.), Aug., 1918, J.H.R.Y.

596b. HEUGLIN'S LONG-TAILED GLOSSY STARLING.

Lamprotornis purpuropterus aeneocephalus Heugl.

Resident—savana I and II and arid (acacia-forest)—fairly common.

MOUNTED.

S.G.M. 1029, ♂, Arradeiba (B.N.), Mar., 1913, A.L.B. (A.L.B.).

SKINS.

- *S.G.M. 2126, ♂, 2242, ♂, Wad Medani (B.N.), Sept., 1923, H.W.B.
 S.G.M. 742, ♂, Wad Medani (B.N.), Mar., 1922, H.W.B.
 S.G.M. 2528, ♀, 2529, ♀, Rahad R. (B.N.), Mar., 1924, W.W.B.

597. PINK-BILLED STARLING.

Hypocolius ampelinus Bp.

Occasional migrant—recorded from Sennar and White Nile.

Family *BUPHAGIDÆ*.

KEY TO SPECIES.†

- | | | |
|---|--|--|
| { | Bill yellow, with the end red ; rump
and upper tail-coverts ochraceous
buff | <i>Buphagus africanus</i> , 598. |
| | Bill entirely red ; rump and upper
tail-coverts greyish brown, paler
towards the back | <i>Buphagus erythrorhynchus</i> , 599. |

598. YELLOW-BILLED OXPECKER.

Buphagus africanus africanus Linn.

Resident—savana IV—not common.

599. RED-BILLED OXPECKER.

Buphagus erythrorhynchus caffer Grote.

Resident—savana—common.

MOUNTED.

- S.G.M. 1308, ♂, 1309, ♀, Mongalla, July, 1914, A.L.B. (A.L.B.).

Family *ZOSTEROPIDÆ*.

KEY TO SPECIES.

- | | | |
|---|--|--------------------------------------|
| { | Breast not yellow and contrasting
strongly with the throat | <i>Zosterops abyssinicus</i> , 600. |
| | Breast yellow like the throat | <i>Zosterops senegalensis</i> , 601. |

600. WHITE-BREASTED WHITE-EYE.

Zosterops abyssinicus abyssinicus Guer.

Resident—Red Sea hills—common.

MOUNTED.

- S.G.M. 1184, ♂, Erkowit (R.S.), Mar., 1910, A.L.B. (Sheals).

SKINS.

- S.G.M. 2819. ♂, 2820, ♂, Erkowit (R.S.), Aug., 1924, W.W.B.

†—After Shelley, "Birds of Africa."

601a. YELLOW WHITE-EYE.

Zosterops senegalensis senegalensis Bp.

Resident—savana I and IV—common.

MOUNTED.

S.G.M. 1494, ♂, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 2055, ♂, Kajo Kaji (Mon.), Feb., 1917, J.H.M.

601b. ERITREAN YELLOW WHITE-EYE.

Zosterops senegalensis aurifrons Heugl.

Resident—savana II—common.

MOUNTED.

*S.G.M. 1185, ♂, Roseires (Fung), July, 1910, A.L.B. (Sheals).

601c. WHITE NILE YELLOW WHITE-EYE.

Zosterops senegalensis superciliosus Reichw.

Resident—savana III—common.

Family *NECTARINIIDÆ*.

KEY TO SPECIES.†

- | | | | |
|----|---|--|---|
| 1. | { | Plumage olive green with no metallic lustre | <i>Cyanomitra olivacea</i> , ♂, 606. |
| | | Plumage with at least some metallic lustre | |
| 2. | { | Central tail-feathers greatly elongated | 3 |
| | | Central tail-feathers not greatly elongated | 5 |
| 3. | { | Abdomen yellow; no red on chest ... | 4 |
| | | Abdomen metallic green; a red patch on chest | <i>Nectarinia pulchella</i> , ♂, 615. |
| | | Abdomen black; a red patch on chest | <i>Nectarinia erythroceria</i> , ♂, 616. |
| 4. | { | Metallic green of throat terminating in a steel blue collar | <i>Hedydipna metallica</i> , ♂, 605. |
| | | Metallic green of throat not terminating in a steel blue collar | <i>Hedydipna platura</i> , ♂, 604. |
| 5. | { | No red on under parts | 9 |
| | | With some red on under parts | 6 |
| 6. | { | Back blackish brown, without metallic lustre | <i>Chalcomitra senegalensis</i> , ♂, 608. |
| | | Back metallic green | 7 |
| 7. | { | Throat metallic violet | <i>Cinnyris coccinigaster</i> , ♂, 610. |
| | | Throat metallic green | 8 |

†—This key covers only the full-plumaged males. Females and young males are often so similarly coloured that a careful study and comparison with museum specimens is necessary for certain identification. In the field the females can often be identified by their association with the full-plumaged males.

- | | | |
|-----|---|--|
| 8. | { | Top of head metallic violet; abdomen black <i>Cinnyris habessinicus</i> , ♂, 611. |
| | | Top of head metallic green like the rest of the upper parts; abdomen buffy brown <i>Cinnyris cholcopygius</i> , ♂, 612. |
| 9. | { | Rump metallic violet, or coppery bronze 10 |
| | | Rump metallic green 11 |
| | | Rump dull olive; top of head metallic green <i>Cyanomitra verticalis</i> , ♂, 607. |
| 10. | { | Under parts white <i>Anthreptes longuemarei</i> , ♂, 602. |
| | | Under parts black <i>Cinnyris cupreus</i> , ♂, 609. |
| 11. | { | Abdomen black <i>Cinnyris oseus</i> , ♂, 613. |
| | | Abdomen white or yellowish 12 |
| 12. | { | Forehead metallic green <i>Anthreptes collaris</i> , ♂, 603. |
| | | Forehead metallic violet <i>Cinnyris venustus</i> , ♂, 614. |

602a. NIGERIAN VIOLET-BACKED SUNBIRD.

Anthreptes longuemarei haussarum Neum.

Resident—savana I and IV—common.

MOUNTED.

S.G.M. 1443, ♀, 1501, ♂, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 2063, ♂, Opari (Mon.), Feb., 1917, J.H.M.

*S.G.M. 2064, ♀, Wau (B.G.), July, 1915, C.C.

602b. KENYA VIOLET-BACKED SUNBIRD.

Anthreptes longuemarei orientalis Hartl.

Resident—savana III—common.

MOUNTED.

S.G.M. 1375, ♀, Mongalla, Feb., 1915, A.L.B. (A.L.B.).

603. LOWER GUINEA COLLARED SUNBIRD.

Anthreptes collaris hypodilus (Jard.).

Resident—savana III and IV—not common.

604. YELLOW-BREASTED SUNBIRD.

Hedydipna platura (Vieill.).

Resident—savana—common.

SKINS.

*S.G.M. 2068, ♂, 2069, ♂, Meridi (B.G.), Feb., 1916, C.C.

*S.G.M. 3108, ♂, 3109, ♂ j, 3110, ♂, 3111, ♀, 3112, ♀, 3113, ♀, 3114, ♂, Talodi (N.M.), Dec., 1925—Feb., 1926, J.W.C.

605. METALLIC YELLOW-BREASTED SUNBIRD.

Hedydipna metallica (Licht.).

Resident—arid—very common.

MOUNTED.

S.G.M. 1179, ♂, Erba (R.S.), Mar., 1912, A.L.B. (Sheals).

SKINS.

*S.G.M. 2085, ♀, Letti (Don.), Dec., 1920, H.H.K.

*S.G.M. 2071, ♂ j, 2072, ♂, 2073, ♂, 2074, ♂, Hag Zamar (Don.), Dec., 1920, W.E.G.

*S.G.M. 2076, ♂, Zeidab (Ber.), June, 1921, W.E.G.

*S.G.M. 2075, ♂, 2086, ♀, Zeidab (Ber.), Mar.—Apr., 1921, H.W.B.

*S.G.M. 2197, ♂, Wad Medani (B.N.), Oct., 1923, H.W.B.

S.G.M. 3204, ♂, 3205, ♂, Wad Medani (B.N.), June, 1924, W.W.B.

S.G.M. 2804, ♂, 2805, ♀, 2806, ♀, Gendettu (Ber.), Aug., 1924, W.W.B.

S.G.M. 2796, ♂, 2797, ♂, 2798, ♂, 2799, ♀, 2800, ♂, 2801, ♂, 2802, ♀, 2803, ♀, Atbara (Ber.), July, 1924, W.W.B.

*S.G.M. 2067, ♀, Erkowit (R.S.), Aug., 1919, J.S.H.

S.G.M. 3258, ♀, Khor Hanoyet (R.S.), Mar., 1926, H.B.J.

606. WEST AFRICAN OLIVE SUNBIRD.

Cyanomitra olivacea guineensis Bann.

Resident—savana IV—not common.

607. UGANDA GREEN-HEADED SUNBIRD.

Cyanomitra verticalis iridisplendens (Reichw.).

Resident—savana IV—common.

SKINS.

*S.G.M. 2077, ♂, 2078, ♂, Yambio (B.G.), Mar., 1916, C.C.

608a. ABYSSINIAN SCARLET-CHESTED SUNBIRD.

Chalcomitra senegalensis cruentata (Rüpp.).

Resident—savana II—common.

MOUNTED.

S.G.M. 1182, ♂, Jebel Fazogli (Fung), May, 1911, A.L.B. (Sheals).

608b. WHITE NILE SCARLET-CHESTED SUNBIRD.

Chalcomitra senegalensis acik (Hartm.).

Resident—savana I, III and IV—very common.

MOUNTED.

S.G.M. 1181, ♂, Sheikh Tombe (U.N.), Summer, 1909, A.L.B. (Sheals).

S.G.M. 1405, ♂, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 2094, ♂, 2096, ♀, 3206, ♂, 3207, ♂, 3208, ♂, 3210, ♀, 3211, ♂, 3212, ♂, 3213, ♂, Kajo Kaji (Mon.), Jan.—Apr., 1917, J.H.M.

*S.G.M. 2088, ♀, Duk Ayod (U.N.), May, 1922, W.H.M.P.

*S.G.M. 2097, ♂, 3214, ♂, Bor (Mon.), July, 1919, J.S.H.

*S.G.M. 2089, ♂, Meridi (B.G.), Feb., 1916, C.C.

*S.G.M. 2090, ♂, Tembura (B.G.), Apr., 1916, C.C.

*S.G.M. 2091, ♂, 2092, ♂, 2093, ♀, 3215, ♂, Yei (Mon.), Nov., 1915, C.C.

S.G.M. 3115, ♀, 3117, ♀, 3118, ♂, 3121, ♂, Talodi (N.M.), Dec., 1925—Feb., 1926, J.W.C.

609. COPPERY SUNBIRD.

Cinnyris cupreus cupreus (Shaw).

Resident—savana—common.

MOUNTED.

S.G.M. 1512, ♂, Kajo Kaji (Mon.), Apr., 1915, A.L.B. (A.L.B.).

S.G.M. 1180, ♂, Roseires (Fung), Mar., 1910, A.L.B. (Sheals).

SKINS.

*S.G.M. 2082, ♂ ?, Yei (Mon.), Nov., 1915, C.C.

*S.G.M. 2083, ♂, Meridi (B.G.), Feb., 1916, C.C.

610. SPLENDID SUNBIRD.

Cinnyris coccinigaster (Lath.).

Resident—savana IV—not common.

SKINS.

*S.G.M. 2079, ♂, Yambio (B.G.), Mar., 1916, C.C.

611. ABYSSINIAN SUNBIRD.

Cinnyris habessinicus habessinicus (Hemp. and Ehr.).

Resident—Red Sea hills—very common.

MOUNTED.

S.G.M. 1177, ♂, Jebel Karbosh (R.S.), Mar., 1912, A.L.B. (Sheals).

S.G.M. 1178, ♂ j, Gebeit (R.S.), Mar., 1912, A.L.B. (Sheals).

SKINS.

*S.G.M. 2065, ♂ j, 2066, ♂, Erkowit (R.S.), Aug., 1919, J.S.H.

*S.G.M. 2810, ♂, Erkowit (R.S.), Aug., 1924, W.W.B.

S.G.M. 2811, ♂, 2812, ♀, Sinkat (R.S.), Sept., 1924, W.W.B.

S.G.M. 3015, ♂, 3016, ♀, Sinkat (R.S.), July, 1925, H.B.J.

612. UGANDA OLIVE-BELLIED SUNBIRD.

Cinnyris chloropygius orphogaster Reichw.

Resident—savana IV—not common.

613. CHAD ORANGE-TUFTED SUNBIRD.

Cinnyris oxeus decorsei Oust.

Resident—savana I, III and IV—fairly common.

SKINS.

*S.G.M. 2080, ♂, 2081, ♂, Yei (Mon.), Nov., 1915, C.C.

614. ABYSSINIAN BUFF-BREASTED SUNBIRD.

Cinnyris venustus fazoglensis (Heugl.).

Resident—savana II—rare.

615a. BEAUTIFUL SUNBIRD.

Nectarinia pulchella pulchella (Linn.).

Resident—Darfur and Kordofan—common.

615b. SUDAN BEAUTIFUL SUNBIRD.

Nectarinia pulchella lucidipectus Hart.

Resident—throughout, except Darfur and Kordofan—very common.

MOUNTED.

S.G.M. 1175, ♂, Khartoum, July, 1913, A.L.B. (A.L.B.).

SKINS.

- *S.G.M. 2062, ♀, Abba I. (W.N.), Aug., 1919, J.S.H.
- *S.G.M. 2315, ♂, 2283, ♂, Wad Medani (B.N.), Aug.—Sept., 1923, H.W.B.
- S.G.M. 2060, ♂, 2061, ♂, 2087, ♀, Zeidab (Ber.), May—June, 1921, W.E.G.
- S.G.M. 2809, ♂, Gendettu (Ber.), Aug., 1924, W.W.B.
- S.G.M. 2807, ♂, 2808, ♀, Atbara (Ber.), July, 1924, W.W.B.
- S.G.M. 2057, ♂, 2059, ♂, Bor (Mon.), July, 1919, J.S.H.
- S.G.M. 2058, ♂, Mongalla, Aug., 1919, J.S.H.
- S.G.M. 2084, ♀, Malakal (Mon.), June, 1920, W.H.M.P.
- S.G.M. 2056, ♂, near Kajo Kaji (Mon.), Feb., 1917, J.H.M.

616. RED-CHESTED SUNBIRD.

Nectarinia erythroceria erythroceria (Heugl.).

Resident—savana—fairly common.

MOUNTED.

- S.G.M. 1183, ♂, Bahr el Jebel (K. 300) (U.N.), May, 1909, A.L.B. (Sheals).
- S.G.M. 1370, ♂ j, Shambe (B.G.), Feb., 1915, A.L.B. (A.L.B.).
- S.G.M., ♀ ?, Sheikh Tombe (U.N.), Feb., 1915, A.L.B. (A.L.B.).

Family *BUBALORNITHIDÆ*.

KEY TO SPECIES.

- | | | |
|---|-----------------------------------|--------------------------------------|
| { | Head and under parts white ; rump | |
| | red | <i>Dinemellia dinemelli</i> , 617. |
| { | Entire plumage black or white | |
| | streaked with black | <i>Bubalornis albirostris</i> , 618. |

617. WHITE-HEADED BUFFALO-WEAVER.

Dinemellia dinemelli dinemelli (Rüpp.).

Resident—savana—fairly common.

MOUNTED.

S.G.M. 1325, ♂, 1326, ♀, Mongalla, July, 1914, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 1918, ♂, 1919, o ?, 1920, ♀, Torit (Mon.), Sept., 1919, J.H.R.Y.

618. WHITE-BILLED BUFFALO-WEAVER.

Bubalornis albirostris albirostris (Vieill.).

Resident—savana and arid (acacia-forest)—common.

MOUNTED.

S.G.M. 1131, ♂, Tawela (W.N.), June, 1909, A.L.B. (A.L.B.).

SKINS.

S.G.M. 719, ♀, El Obeid (Kor.), Aug., 1921, J.E.M.M.

Family PLOCEIDÆ

KEY TO SPECIES.†

- | | | | |
|----|---|--|--|
| | | Wing of nine primaries only; the first primary about the same length as the second | Sub-family <i>Passerinæ</i> (see separate key on page 90). |
| | | Wing of ten primaries; the first a bastard-primary, not nearly so long as the second | Sub-families <i>Sporopipinæ</i> , <i>Plocepasserinæ</i> , <i>Ploceinæ</i> and <i>Estrildinæ</i> (see key below). |
| 1. | { | Bastard-primary very small, narrow and finely pointed, not reaching beyond the end of the primary-coverts | 2 |
| | | Bastard-primary larger and not sharply pointed; tail always square or rounded | 45 |
| 2. | { | Mantle striped in some stages of plumage; hind claw longer and more slender; generally with some of the inner feathers of the wing lanceolate; tail-feathers often obtusely pointed. The plumage of the males after the autumn moult usually resembles that of the females, but after the spring moult generally differs entirely | 3 |
| | | Mantle never striped; hind claw shorter and stouter; none of the inner feathers of the wing lanceolate; tail-feathers never obtusely pointed. Plumage very similar in both sexes at all times of the year | 22 |
| 3. | { | Adult male and female totally dissimilar in their breeding plumage | 4 |
| | | Adult male and female somewhat similar in plumage at all seasons; back always striped | 20 |
| 4. | { | Back never mottled in full plumaged males; head, neck and breast not mostly yellow. Bill less stout | 5 |
| | | Back always mottled with blackish centres to the feathers; head, neck and breast mostly bright yellow in full plumaged males; bill stouter | <i>Anomalospiza imberbis</i> , 665. |
| 5. | { | No frill on the neck; no bright red nor yellow on the plumage | 6 |
| | | A frill round the neck, and some bright red or yellow in the plumage | 12 |

†—After Shelley, "Birds of Africa."

Many of the weavers have a dull, "sparrowy" plumage during their non-breeding season and in others the females are always inconspicuous. Often considerable experience and careful comparison with museum specimens is required in identifying such birds, and their identification by means of a key is impossible. Only the breeding plumages of such birds are included in the following key.

6. { Tail entirely square; plumage black
with a coloured gloss ... 7
Four central tail-feathers extremely
long in full-plumaged males ... 10
7. { Wings and tail dark sepia brown;
less white on under surface of the
wings ... 8
Wings and tail paler brown; more
white on the under surface of the
wings ... 9
8. { Gloss on head and body more blue,
distinctly shaded with green ... *Hypochera chalybeta*, 682.
Gloss on head and body more lilac
with no green shade ... *Hypochera ultramarina*, 684.
9. { Gloss on head and body more violet,
with no greenish blue shade ... *Hypochera funerea*, 683.
Gloss on head and body of a more
greenish blue shade ... *Hypochera nigerica*, 685.
10. { Bill red; elongated tail-feathers
narrow ... *Vidua macroura*, ♂, 686.
Bill black; elongated tail-feathers
very broad ... 11
11. { Elongated tail-feathers gradually
narrowing towards their tips ... *Steganura paradisaea*, ♂, 687.
Elongated tail-feathers of the same
width throughout their length and
more rounded at their tips ... *Steganura aucupum*, ♂, 688.
12. { Tail longer than the wing and
graduated ... 13
Tail shorter than the wing ... 14
13. { A large patch of white on wing ... *Coliuspasser albonotatus*, 657.
No patch of white on the wing ... *Coliuspasser macrourus*, 658.
14. { Tail distinctly rounded; full-plu-
maged males with the head, neck,
body and tail black; the lesser
wing-coverts red, orange, or yellow
Tail nearly square; red or yellow not
confined to the wings ... 15
Urobrachya axillaris, 656.
15. { Head and neck entirely black; some
bright yellow on the plumage ... *Pyromelana capensis*, ♂, 653.
Head and neck never entirely black 16
16. { Lower back, as well as upper and
under tail-coverts, yellow ... 17
Lower back, as well as tail-coverts,
never yellow; some red on the
neck ... 18
17. { Neck yellow, forming a broad throat
collar ... *Pyromelana afra*, ♂, 654.
Neck black, forming a broad nuchal
collar ... *Pyromelana taha*, ♂, 655.
18. { Sides of abdomen and the under tail-
coverts scarlet ... *Pyromelana franciscana*, ♂, 651.
No red on abdomen nor under tail-
coverts ... 19
19. { Forehead black ... *Pyromelana gierowii*, ♂, 652.
Forehead scarlet like the crown ... *Pyromelana hordacea*, ♂, 650.

20. { Bill red *Quelea quelea*, 647.
 { Bill black or brown 21
21. { Bill larger; upper half of throat in
 male deep crimson, shading almost
 into black down the centre ... *Quelea erythropis*, 648.
 { Bill smaller; entire throat bright
 scarlet in male *Quelea cardinalis*, 649.
22. { Nostrils exposed 23
 { Nostrils hidden by frontal feathers ... 24
23. { Tail short and rounded; inner
 primary falling short of tip of wing
 by more than length of tarsus;
 males with red on throat... .. *Amadina fasciata*, 663.
 { Tail square; inner primary falling
 short of tip of wing by length of
 tarsus; no red on plumage of male *Pseudonigrita arnaudi*, 622.
24. { Second primary one of the longest ... 25
 { Second primary shorter than the fifth 28
25. { Tail fairly long and slightly graduated,
 with the central pair of feathers
 more elongated and pointed ... *Euodice cantans*, 661.
 { Tail short and evenly rounded ... 26
26. { Outstretched feet extending beyond
 the tail; culmen nearly straight ... *Ortygospiza atricollis*, 664.
 { Outstretched feet not reaching to end
 of tail; culmen curved 27
27. { Entire head glossy black; no bars on
 under tail-coverts *Amauresthes fringilloides*, 660.
 { Head bronze; under tail-coverts
 barred *Spermestes cucullatus*, 659.
28. { Back and upper tail-coverts olive;
 breast grey, or mostly so; no spots
 nor bars *Nesocharis capistrata*, 680.
 { Upper tail-coverts never olive when
 the breast is mostly grey and the
 plumage unspotted 29
29. { First long primary entire, not
 narrowed towards the end ... 30
 { First long primary with the terminal
 third narrow and generally dis-
 tinctly cut away on the inner
 margin 39
30. { Upper tail-coverts blue; tail longer
 than the wing and strongly
 graduated *Uræginthus bengalus*, 681.
 { Upper tail-coverts never blue ... 31
31. { A crimson band through the eye in
 adult males 32
 { No crimson band through eye; rump
 red; no olive shade on mantle ... 35
32. { Upper parts distinctly barred; bill of
 one colour; head alike in both
 sexes; red eye-band absent only
 in young birds 33
 { Upper parts uniform olive brown,
 with the rump red; bill red, with
 the culmen and keel black; under
 parts mostly yellow or orange red *Estrilda subflava*, 675.

33. { Under tail-coverts black; upper
tail-coverts barred; bill red ... *Estrilda astrild*, 672.
Under tail-coverts not black; upper
tail-coverts not barred ... 34
34. { Upper tail-coverts black; under
tail-coverts whitish; bill red ... *Estrilda troglodytes*, 673.
Upper tail-coverts red; bill black;
some red on wings ... *Estrilda rhodopyga*, 674.
35. { Neither the crown nor the sides of
the head black ... *Estrilda paludicola*, 676.
Crown or sides of head entirely black
in adults ... 36
36. { Upper parts not distinctly barred ... 37
Upper parts very distinctly barred ... *Estrilda nonnula*, 679.
37. { Some tiny white spots on sides of
breast; sides of head and upper
throat black ... 38
No white spots on breast; head, neck
and mantle greyish brown ... *Estrilda nonnula*, juv., 679.
38. { Paler; black on under parts confined
to upper throat, centre of abdomen
and under tail-coverts; crown
ashy grey ... *Estrilda nigricollis*, 677.
Darker; entire throat black; breast
black, with the exception of the
front and sides which are vinous red *Estrilda larvata*, 678.
39. { Tail-feathers broader; outer margins
of quills never red nor yellow;
breast generally with minute white
spots ... 40
Tail-feathers narrower; outer margins
of quills red or yellow; breast
barred ... 42
40. { Under tail-coverts black ... *Lagonosticta rara*, 669.
Under tail-coverts pale ... 41
41. { Red on plumage more scarlet; breast
with or without round white spots.
Females mostly brown; red confined
to front of eyes, upper tail-
coverts and tail ... *Lagonosticta senegala*, 670.
Red on plumage more pink; breast
with white spots inclining to bars *Lagonosticta rufopicta*, 671.
42. { No yellow on throat ... 43
Lower throat yellow; some red on
head ... *Pytilia melba*, ♂, 668.
43. { Wings with some red and no yellow;
bill black ... *Pytilia phænicoptera*, 666.
Wings with some yellow and no red;
bill red ... 44
44. { Some red on head; back and breast
washed with yellow ... *Pytilia afra*, ♂, 667.
No red on head ... { *Pytilia afra*, ♀, 667.
Pytilia melba, ♀, 668.
45. { Breast with large white twin spots or
bars; bill blackish blue ... *Clytospiza monteiri*, 662.
No white spots on the breast; bill
never metallic blue ... 46

46. { Nostrils hidden ; tail square, with the
central pair of feathers slightly the
shortest *Sporopipes frontalis*, 619.
Nostrils exposed ; tail more rounded 47
47. { Bill very deep ; culmen extending
back in a narrow ridge beyond the
middle of the eyes ; males with a
basal portion of the primaries white,
forming a speculum *Amblyospiza albifrons*, 634.
Base of upper mandible ending in an
angle in front of the eyes 48
48. { Median and greater wing-coverts with
whitish ends, forming two distinct
bars on the wing 49
With no whitish bars on the wing ... 50
49. { Rump and upper tail-coverts white ;
crown black *Plocepasser mahali*, 620.
Rump and upper tail-coverts brown ;
crown rufous *Plocepasser superciliosus*, 621.
50. { Bill red ; abdomen white ; quills
broadly margined with red *Anaplectes melanotis*, 646.
Bill not red 51
51. { With black on the throat in full
plumaged males 52
No black on throat in either sex ... 60
52. { Sexes similar, with the exception of
the throat ; a black band through
the eye ; back and closed wings
uniform green ; bill slender *Hyphanturgus ocularius*, 644.
Females with no black on the head ;
males with black on sides of head
never confined to a band through
the eye 53
53. { Bill more slender *Sitagra luteolus*, 636.
Bill stouter 54
54. { Throat with black extending to the
crop 55
Throat with black confined to the
upper half *Sitagra vitellinus*, 641.
55. { Head not entirely black, nor the
mantle yellow with a broad black
scapular band on each side ... 56
Head entirely black ; or the mantle
yellow with a broad black scapular
band on each side 58
56. { Forehead black 57
Entire forehead and crown golden
yellow *Sitagra heuglini*, 638.
57. { Black frontal patch extending back
beyond the eyes *Sitagra intermedius*, 639.
Black frontal patch not extending
back beyond base of culmen *Sitagra tenuiopterus*, 640.
58. { Mantle strongly mottled with yellow
and black ; black of head and
throat margined with a broad band
of deep chestnut *Textor cucullatus*, 643.
Mantle uniform 59

59. { Mantle brown; chest chestnut, with
 bases of feathers yellow ... *Sitagra badius*, 642.
 { Mantle olive; front and centre of
 chest only shaded with chestnut ... *Sitagra capitalis*, 637.
60. { Ear-coverts or sides of head black ... *Othyphantes emini*, 635.
 { Ear-coverts or sides of head not
 black ... *Xanthophilus galbula*, 645.

Sub-family *SPOROPIPINÆ*.

619. SPECKLE-FRONTED WEAVER.

Sporopipes frontalis frontalis (Daud.).

Resident—savana and arid (acacia-grass)—very common.

MOUNTED.

S.G.M. 1345, ♂, Mongalla, Aug., 1914, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 732, ♀, 733, ♂, Ayod (U.N.), May, 1920, W.H.M.P.

*S.G.M. 2996, ♀, Rejaf (Mon.), Jan., 1925, H.H.K.

Sub-family *PLOCEPASSERINÆ*.

620. BLACK-BILLED SPARROW-WEAVER.

Plocepasser mahali melanorhynchus Bp.

Resident—savana III—common.

MOUNTED.

S.G.M. 1126, ♂, 1346, ♂, Mongalla, May, 1909, and July, 1914, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 1889, ♂, 1900, ♂, 1901, ♂, Torit (Mon.), Aug., 1918, J.H.R.Y.

S.G.M. 2968, ♀, 2969, ♀, Mongalla, Feb., 1925, H.H.K.

621. CHESTNUT-CROWNED SPARROW-WEAVER.

Plocepasser superciliosus superciliosus (Cretzsch.).

Resident—savana—very common.

MOUNTED.

S.G.M. 1448, ♂, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 710, ♀, 711, ♂, Wau (B.G.), July—Aug., 1916, C.C.

*S.G.M. 1893, ♂, 1894, ♂, 1895, ♀, 1896, ♂, 1897, ♂, 1898, ♀, Kajo Kaji (Mon.),
 Jan.—Feb., 1917, J.H.M.

S.G.M. 3054, ♂, 3055, ♂, 3056, ♂, 3057, ♂, Talodi (N.M.), Feb., 1926, J.W.C.

622. GREY-HEADED SOCIAL-WEAVER.

Pseudonigrita arnaudi arnaudi (Bp.).

Resident—savana III and IV—common.

MOUNTED.

S.G.M. 2155, ♀, 2156, ♂, Malek (Mon.), Mar.—Apr., 1923, A.S. (R.C.).

SKINS.

*S.G.M. 2151, ♂, 2152, ♀, 2153, ♀, 2154, ♀, 2157, ♀, Malek (Mon.), Mar.—Apr.,
 1923, A.S.

Sub-family *PASSERINÆ*.

KEY TO SPECIES.†

- | | | | | | |
|-----|---|---|-----|-----|--|
| 1. | { | Nostrils covered by plumes | ... | ... | 2 |
| | { | Nostrils exposed | ... | ... | 10 |
| 2. | { | Mantle mottled with some dark centres | ... | ... | 3 |
| | { | to the feathers | ... | ... | 8 |
| | { | Mantle uniform | ... | ... | 7 |
| 3. | { | Throat black in males | ... | ... | 4 |
| | { | Throat with no black in either sex | ... | ... | 7 |
| 4. | { | Crown rufous | ... | ... | 5 |
| | { | Crown grey | ... | ... | 6 |
| 5. | { | Flanks streaked | ... | ... | <i>Passer hispaniolensis</i> , ♂, 629. |
| | { | Flanks uniform | ... | ... | <i>Passer montanus</i> , 628. |
| 6. | { | Lower back ashy brown with no rufous shade; ear-coverts whitish | ... | ... | <i>Passer domesticus</i> , ♂, 626. |
| | { | Lower back with a rufous shade; ear-coverts grey | ... | ... | <i>Passer iagoensis</i> , ♂, 627. |
| 7. | { | Mantle strongly mottled; throat with some rufous; wing 2.3 ins. | ... | ... | <i>Sorella eminiibey</i> , ♀, 633. |
| | { | Mantle obsoletely mottled; no rufous on throat; wing 3.2 ins. | ... | ... | <i>Passer griseus</i> , 631. |
| 8. | { | Throat black | ... | ... | <i>Passer simplex</i> , ♂, 630. |
| | { | Throat with no black; no black on the head | ... | ... | 9 |
| 9. | { | Crown and upper parts sandy rufous | ... | ... | <i>Passer simplex</i> , ♀, 630. |
| | { | Crown and head grey | ... | ... | <i>Passer griseus</i> , 631. |
| | { | Crown, and often the whole head, neck and body cinnamon | ... | ... | <i>Sorella eminiibey</i> , 633. |
| | { | Entire head, neck and breast yellow; mantle cinnamon | ... | ... | <i>Auripasser luteus</i> , 632. |
| 10. | { | Tail-feathers tipped with white | ... | ... | <i>Carpospiza brachydactyla</i> , 625. |
| | { | Tail not tipped with white | ... | ... | 11 |
| 11. | { | Smaller; wing 2.9 to 3.1 ins.; less yellow on the throat | ... | ... | <i>Gymnoris dentata</i> , 624. |
| | { | Larger; wing 3.2 to 3.5 ins.; more yellow on throat | ... | ... | <i>Gymnoris pyrgita</i> , 623. |

623. SUDAN ROCK-SPARROW.

Gymnoris pyrgita pallida Neum.

Resident—arid—not common.

MOUNTED.

S.G.M. 1120, ♂, Fatasha (Kor.), Feb., 1912, A.L.B. (A.L.B.).

624. LESSER ROCK-SPARROW.

Gymnoris dentata dentata (Sund.).

Resident—savana and arid (acacia-grass)—common.

MOUNTED.

S.G.M. 2994, ♂, Wad Medani (B.N.), Feb., 1924, W.W.B. (R.C.).

†—After Shelley, "Birds of Africa."

SKINS.

- *S.G.M. 2458, ♂, Wad Medani (B.N.), Feb., 1924, W.W.B.
S.G.M. 3071, ♂, 3072, ♂, 3073, ♀, 3074, ♂, 3075, ♂, 3076, ♂, 3077, ♀, 3078, ♀,
Talodi (N.M.), Dec., 1925—Feb., 1926, J.W.C.

625. PALE ROCK-SPARROW.

Carospiza brachyactyla (Bp.).

Winter visitor—arid—common.

MOUNTED.

- S.G.M. 1121, ♂, White Nile, Lat. 14° N. (W.N.), Jan., 1914, W.P.L. (A.L.B.).

SKINS.

- *S.G.M. 1856, ♀, 1859, ♀, Wad Medani (B.N.), Nov., 1919, H.W.B.
*S.G.M. 635, ♀, Khartoum, R.C.

626a. EGYPTIAN HOUSE-SPARROW.

Passer domesticus niloticus Nicoll and Bonh.

Resident—extreme north—common.

626b. SUDAN HOUSE-SPARROW.

Passer domesticus arboreus Bp.

Resident—arid (except Red Sea)—abundant.

MOUNTED.

- S.G.M. 1132, ♂, Khartoum, Feb., 1913, Mrs. A. L. Butler (A.L.B.).
S.G.M. 1551, ♂, Dongala, Mar., 1918, J.N.C. (R.C.).

SKINS.

- *S.G.M. 614, ♂, Abu Fatma (Don.), Nov., 1920, H.H.K.
*S.G.M. 615, ♂, Meganda (Don.), Dec., 1920, H.H.K.
*S.G.M. 616, ♂, Affat (Don.), Jan., 1920, H.H.K.
*S.G.M. 627, ♀, Genetti (Don.), Jan., 1921, H.H.K.
*S.G.M. 620, ♀, Hag Zamar (Don.), Dec., 1920, W.E.G.
*S.G.M. 2299, ♂, Wad Medani (B.N.), Aug., 1923, H.W.B.
S.G.M. 2981, ♀, 2534, ♀, Wad Medani (B.N.), Feb.—June, 1924, W.W.B.

627a. KORDOFAN RUFOUS SPARROW.

Passer iagoensis cordofanicus Heugl.

Resident—Darfur and Kordofan—common.

627b. WHITE NILE RUFOUS SPARROW.

Passer iagoensis shelleyi Sharpe.

Resident—savana III—not common.

628. TREE-SPARROW.

Passer montanus montanus (Linn.).

Accidental—said to have been obtained in Kordofan by Rüppell—
no later record.

629. SPANISH SPARROW.

Passer hispaniolensis hispaniolensis (Temm.).

Winter visitor—Dongola Province—abundant.

MOUNTED.

S.G.M. 607, ♀, 608, ♀, Letti (Don.), Dec., 1920, H.H.K. (R.C.).
S.G.M. 602, ♂, Letti (Don.), Dec., 1921, H.H.K. (R.C.).

SKINS.

S.G.M. 610, ♂, 611, ♂, 612, ♀, Hag Zamar (Don.), Dec., 1920, W.E.G.
*S.G.M. 1883, ♂, Merowe (Don.), Dec., 1918, (R.C.).

630. DESERT SPARROW.

Passer simplex simplex (Licht.).

Resident—arid (scrub)—not common.

631a. GREY-HEADED SPARROW.

Passer griseus griseus (Vieill.).

Resident—Darfur and Kordofan—common.

631b. ERITREAN GREY-HEADED SPARROW.

Passer griseus eritreæ Zedl.

Resident—throughout (except west)—very common.

MOUNTED.

S.G.M. 1390, ♂, Kajo Kaji (Mon.), Feb., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 2116, ♂, 2117, ♂, Wad Medani (B.N.), Aug.—Sept., 1923, H.W.B.
S.G.M. 2733, ♂, Atbara (Ber.), July, 1924, W.W.B.
S.G.M. 3058, ♂, 3059, ♂, 3060, ♀, 3061, ♂, Talodi (N.M.), Dec., 1925—Feb.,
1926, J.W.C.
†S.G.M. 1873, ♂, Kajo Kaji (Mon.), Feb., 1915, J.H.M.
†S.G.M. 623, ♂, Meridi (B.G.), Jan., 1916, C.C.
†S.G.M. 624, ♂, Tembura (B.G.), Apr., 1916, C.C.
†S.G.M. 634, ♂, Zeraf R. (U.N.), July, 1920, W.H.M.P.

631c. ABYSSINIAN GREY-HEADED SPARROW.

Passer griseus swainsoni (Rüpp.).

Recorded from Port Sudan.

632. SUDAN GOLDEN SPARROW.

Auripasser luteus (Licht.).

Resident—arid—abundant.

MOUNTED.

S.G.M. 1135, ♂, 1136, ♂, 1137, ♀, Khartoum, Feb., 1913, A.L.B. (A.L.B.).

†—Birds from Mongalla and Bahr el Ghazal are somewhat intermediate between this form and *P. g. ugandæ*.

SKINS.

- *S.G.M. 633, ♂, Letti (Don.), Dec., 1921, H.H.K.
 *S.G.M. 626, ♀, Hag Zamar (Don.), Dec., 1920, W.E.G.
 *S.G.M. 630, ♂, 631, ♂, Zeidab (Ber.), June, 1921, W.E.G.
 *S.G.M. 628, ♂, 621, ♀, Zeidab (Ber.), Apr.—Aug., 1921, H.W.B.
 *S.G.M. 2335, ♂, 2327, ♀, Wad Medani (B.N.), Oct., 1923, H.W.B.
 S.G.M. 2535, ♀, Wad Medani (B.N.), Feb., 1924, W.W.B.
 S.G.M. 2684, ♂, 2685, ♂, Atbara (Ber.), July, 1924, W.W.B.
 *S.G.M. 960, ♀, Tokar (R.S.), June, 1923, W.W.B.
 S.G.M. 3254, ♂, 3255, ♀, Khor Hanoyet (R.S.), Mar., 1926, H.B.J.

633. CHESTNUT SPARROW.

Sorella eminibey eminibey Hartl.

Resident—savana—common.

Sub-family *PLOCEINÆ*.

634. WHITE NILE GROSBEAK-WEAVER.

Amblyospiza albifrons melanota (Heugl.).

Resident—savana—fairly common.

MOUNTED.

- S.G.M. 1122, ♂, 1123, ♀, Giggig (W.N.), summer, 1909, A.L.B. (A.L.B.).

635. EMIN'S WEAVER.

Othyphantes emini emini (Hartl.).

Resident—savana III and IV—rare.

636. LITTLE WEAVER.

Sitagra luteolus luteolus (Licht.).

Resident—savana and arid (acacia-forest)—very common.

MOUNTED.

- S.G.M. 1336, ♂, Mongalla, July, 1914, A.L.B. (A.L.B.).
 S.G.M. 2677, ♂, Zeidab (Ber.), Aug., 1924, W.W.B. (R.C.).

SKINS.

- *S.G.M. 2124, ♂, Wad Medani (B.N.), Aug., 1923, H.W.B.
 *S.G.M. 669, ♂, 670, ♂, Zeidab (Ber.), Mar., 1921, H.W.B.
 *S.G.M. 671, ♂, 672, ♂, Zeidab (Ber.), June, 1921, W.E.G.
 S.G.M. 2676, ♂, Zeidab (Ber.), Aug., 1924, W.W.B.
 S.G.M. 2971, ♂, Wad Medani (B.N.), June, 1924, W.W.B.
 *S.G.M. 640, ♂, 641, ♀, Ayod (U.N.), May, 1920, W.H.M.P.
 *S.G.M. 667, ♂, Tembura (B.G.), Apr., 1916, C.C.
 *S.G.M. 668, ♂, Wau (B.G.), July—Aug., 1916, C.C.

637. UGANDA YELLOW-COLLARED WEAVER.

Sitagra capitalis dimidiata (Antin. & Salv.).

Resident—savana II and III—not common.

638. HEUGLIN'S MASKED WEAVER.

Sitagra heuglini heuglini Reichw.

Resident—savana III and IV—not common.

SKINS.

*S.G.M. 1886, ♂, 1887, ♂, Kajo Kaji (Mon.), Apr., 1917, J.H.M.

639. ABYSSINIAN MASKED WEAVER.

Sitagra intermedius intermedius Rüpp.

Resident—savana II and arid (acacia-forest), extreme east—not common.

640a. NILE MASKED WEAVER.

Sitagra tæniopterus tæniopterus Reichb.

Resident—savana and arid (acacia-forest)—abundant.

MOUNTED.

S.G.M. 1129, ♂, Shambe (B.G.), summer, 1909, A.L.B. (A.L.B.)

SKINS.

*S.G.M. 1888, ♂, 1889, ♂, Hillet Nuer (U.N.), Aug., 1919, J.S.H.

*S.G.M. 647, ♂, Malakal (U.N.), June, 1920, W.H.M.P.

*S.G.M. 673, ♂, Renk (U.N.), Aug., 1920, W.H.M.P.

640b. DARFUR MASKED WEAVER.

Sitagra tæniopterus jurensis Lynes.

Resident—Darfur—not common.

641. VITELLINE MASKED WEAVER.

Sitagra vitellinus vitellinus (Licht.).

Resident—savana and arid (acacia-grass)—very common.

MOUNTED.

S.G.M. 2670, ♀, Atbara (Ber.), July, 1924, W.W.B. (R.C.).

S.G.M. 2674, ♂, Zeidab (Ber.), Aug., 1924, W.W.B. (R.C.).

SKINS.

*S.G.M. 661, ♂, Zeidab (Ber.), Feb., 1921, H.W.B.

*S.G.M. 662, ♂, 663, ♂, 664, ♂, 648, ♂, Zeidab (Ber.), May—June, 1921, W.E.G.

S.G.M. 2669, ♂, 2671, ♀, 2672, ♂, Atbara (Ber.), July, 1924, W.W.B.

S.G.M. 2673, ♂, Gendettu (Ber.), Aug., 1924, W.W.B.

S.G.M. 2675, ♂, Kitiab (Ber.), Nov., 1924, W.W.B.

*S.G.M. 666, ♂, El Obeid (Kor.), Aug., 1921, J.E.M.M.

642a. CINNAMON WEAVER.

Sitagra badius badius (Cass.).

Resident—savana II and arid (acacia-forest) east—not common.

MOUNTED.

S.G.M. 1323, ♂, Khartoum, Sept., 1914, A.L.B. (A.L.B.).

642b. WHITE NILE CINNAMON WEAVER.

Sitagra badius axillaris (Heugl.).

Resident—savana III and IV—fairly common.

MOUNTED.

S.G.M. 1124, ♂, Roseires (Fung)†, Aug., 1910, A.L.B.

643a. RUWENZORI V-MARKED WEAVER.

Textor cuculatus feminina (Grant).

Resident—savana I, III and IV—very common.

MOUNTED.

S.G.M. 1335, ♂ j, Mongalla, July, 1914, A.L.B. (A.L.B.).

S.G.M. 1451, ♀, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 649, ♂, 650, ♂, 654, ♀, Yei (Mon.), Nov.—Dec., 1915, C.C.

*S.G.M. 651, ♂, 652, ♂, Wau (B.G.), July—Aug., 1916, C.C.

*S.G.M. 653, ♂, Yambio (B.G.), Mar., 1916, C.C.

*S.G.M. 1890, ♂, Shambe (B.G.), Aug., 1919, J.S.H.

*S.G.M. 1891, ♂, 1892, ♀, Kajo Kaji (Mon.), Jan.—Apr., 1917, J.H.M.

643b. ABYSSINIAN V-MARKED WEAVER.

Textor cuculatus abyssinicus (Gmel.).

Resident—savana II and arid (acacia-forest)—common.

MOUNTED.

S.G.M. 1128, ♂, Roseires (Fung), Aug., 1910, A.L.B. (A.L.B.).

644. UGANDA SPECTACLED WEAVER.

Hyphanturgus ocularius crocatus (Hartl.).

Resident—savana III and IV—common.

MOUNTED.

S.G.M. 1457, ♀, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 655, ♀, 656, ♀, 657, ♀, 658, ♂, 659, ♂, Meridi (B.G.), Jan.—Feb., 1916, C.C.

*S.G.M. 660, ♂, Yambio (B.G.), Mar., 1916, C.C.

645. RÜPPELL'S WEAVER.

Hyphantornis galbula Rüpp.

Resident—savana II and arid (east)—very common.

MOUNTED.

S.G.M. 1125, ♂, Khor Arbat (R.S.), May, 1908, A.L.B. (A.L.B.).

SKINS.

S.G.M. 2667, ♂, 2668, ♂ j, Erkowit (R.S.), Aug., 1924, W.W.B.

S.G.M. 3013, ♂, 3014, ♂, Sinkat (R.S.), July, 1925, H.B.J.

†—The locality data of this specimen is probably erroneous; it agrees with the description of this race rather than with the Blue Nile one.

646. RED-WINGED ANAPLECTES.

Anaplectes melanotis (Lafres).

Resident—savana—fairly common.

MOUNTED.

S.G.M. 1127, ♂, Jebel Fazogli (Fung), May, 1911, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 674, ♀, Yambio (B.G.), Mar., 1916, C.C.

*S.G.M. 1904, ♂, 1905, ♀, Kajo Kaji (Mon.), Feb., 1917, J.H.M.

S.G.M. 3051, ♂, Talodi (N.M.), Jan., 1926, J.W.C.

647. SUDAN DIOCH.

Quelea quelea aethiopica (Sundl.).

Resident—savana and arid (acacia-grass)—very common.

SKINS.

*S.G.M. 702, ♀, 703, ♂, 707, ♀, Wad Medani (B.N.), July, 1920, H.W.B.

*S.G.M. 2256, ♀, 2288, ♂, Wad Medani (B.N.), May—Aug., 1923, H.W.B.

S.G.M. 2683, ♂, Um Debeia (Ber.), July, 1924, W.W.B.

S.G.M. 3066, ♂, 3067, ♀, 3068, ♀, Talodi (N.M.), Dec., 1925, and Feb., 1926, J.W.C.

S.G.M. 3062, ♂, 3063, ♂, 3064, ♂, Kaka (U.N.), Nov., 1925, J.W.C.

S.G.M. 3065, ♀, Malek (U.N.), Nov., 1925, J.W.C.

*S.G.M. 704, ♂, 705, ♂, 706, ♂, 708, ♀, 709, ♀, Malakal (U.N.), June—July, 1920, W.H.M.P.

648. RED-HEADED DIOCH.

Quelea erythroptera (Hartl.).

Resident—savana III and IV—not common.

SKINS.

*S.G.M. 1854, ♂, Kajo Kaji (Mon.), Mar., 1917, J.H.M.

649. CARDINAL DIOCH.

Quelea cardinalis (Hartl.).

Resident—savana III—fairly common.

MOUNTED.

S.G.M. 1337, ♂, Mongalla, Aug., 1914, A.L.B. (A.L.B.).

650a. FIRE-CROWNED BISHOP-BIRD.

Euplectes hordeacea hordeacea (Linn.).

Resident—savana I—very common.

650b. ABYSSINIAN FIRE-CROWNED BISHOP-BIRD.

Euplectes hordeacea craspedoptera (Bp.).

Resident—savana II, III and IV—very common.

MOUNTED.

S.G.M. 1314, ♂, 1315, ♂, 1316, ♂, 1353, ♂, Mongalla, Aug., 1914, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 1909, ♂, Tombe (U.N.), Aug., 1919, J.S.H.

651. DURA-BIRD.

Euplectes franciscana franciscana (Isert).

Resident—throughout—abundant.

MOUNTED.

S.G.M. 1139, ♀, 1140, ♂, 1141, ♂, Khartoum, Nov., 1912, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 722, ♂, 728, ♂, Argo I. (Don.), Nov., 1920, H.H.K.

*S.G.M. 720, ♂, Tangassi I. (Don.), Oct., 1920, H.H.K.

*S.G.M. 721, ♂, Meganda (Don.), H.H.K.

*S.G.M. 723, ♂, 724, ♂, Abdullahnarti (Don.), Dec., 1920, W.E.G.

*S.G.M. 725, ♂, 727, ♂, Zeidab (Ber.), May—June, 1921, W.E.G.

S.G.M. 2687, ♀, 2688, ♂, 2689, ♂, 2690, ♂, 2691, ♂, Gendettu (Ber.), Aug.—Oct., 1924, W.W.B.

S.G.M. 2692, ♂, 2693, ♀, 2694, ♀, Kitiab (Ber.), Nov., 1924, W.W.B.

S.G.M. 730, ♂, Khartoum, Sept., 1921, R.C.

S.G.M. 731, ♂, Renk (U.N.) Aug., 1920, W.H.M.P.

*S.G.M. 1910, ♀, Aliab (Ber.), July, 1919, J.S.H.

*S.G.M. 1911, ♂, Bor (Mon.), July, 1919, J.S.H.

S.G.M. 3069, ♀, 3070, ♂, Talodi (N.M.), Feb., 1926, J.W.C.

652. BLACK BISHOP-BIRD.

Euplectes gierowii ansorgei (Hartert).

Resident—savana III and IV—not common.

653. ABYSSINIAN YELLOW BISHOP-BIRD.

Euplectes capensis xanthomelas Rüpp.

Recorded from the sudd, but not recently.

654. YELLOW-CROWNED BISHOP-BIRD.

Euplectes afra (Gm.).

Resident—savana I—not common.

655. LADO TAHA BISHOP-BIRD.

Euplectes taha ladoensis Reichw.

Resident—savana III and IV—very common.

656. NILE FAN-TAILED WIDOW-BIRD.

Urobrachya axillaris phaenicea (Heugl.).

Resident—savana and sudd—abundant.

SKINS.

*S.G.M. 1902, ♂, 1903, ♂, Bor (Mon.), July, 1919, J.S.H.

S.G.M. 332, ♂, 333, ♂, Renk (U.N.), Aug., 1920, W.H.M.P.

657. EAST AFRICAN WHITE-WINGED WHYDAH.

Coliuspasser albonotatus eques (Hartl.).

Resident—savana—common.

658. YELLOW-MANTLED WHYDAH.

Coliupasser macrourus macrourus (Gmel.).

Resident—savana III and IV—abundant.

MOUNTED.

S.G.M. 1476, ♂, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

S.G.M. 712, ♂, Yei (Mon.), Nov.—Dec., 1915, C.C. (R.C.).

SKINS.

*S.G.M. 713, ♂, Yei (Mon.), Nov.—Dec., 1915, C.C.

*S.G.M. 714, ♂, Meridi (B.G.), Feb., 1916, C.C.

*S.G.M. 715, ♂, Mt. Baginzi (B.G.), Mar., 1916, C.C.

*S.G.M. 716, ♂, Yambio (B.G.).

*S.G.M. 717, ♂, Tembura (B.G.), Apr., 1916, C.C.

*S.G.M. 208, ♂, 1906, ♂, 1907, o ?, Kajo Kaji (Mon.), Jan.—Apr., 1917, J.H.M.

Sub-family *ESTRILDINÆ*.

659a. BRONZE MANNIKIN.

Spermestes cucullatus cucullatus Swains.

Resident—savana III and IV—fairly common.

MOUNTED.

S.G.M. 1408, ♀, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

†*S.G.M. 1847, ♀, Rudu (Mon.), Feb., 1917, J.H.M.

†*S.G.M. 1848, ♂, 1849, o ?, 1850, ♂, 1841, ♀, 1852, o ?, Kajo Kaji (Mon.), Jan.—Mar., 1917, J.H.M.

659b. ABYSSINIAN BRONZE MANNIKIN.

Spermestes cucullatus scutatus Heugl.

Resident—savana II—fairly common.

60. MAGPIE MANNIKIN.

Amauresthes fringilloides (Lafr.).

Resident—savana III and IV—not common.

661. SILVER-BILL.

Euodice cantans cantans (Gmel.).

Resident—throughout—very common.

SKINS.

*S.G.M. 2292, ♂, 2289, ♀, 2338, ♀, 2205, ♀, 2201, ♀, Wad Medani (B.N.), Oct.—Nov., 1923, H.W.B.

*S.G.M. 1833, ♀, Wad Medani B.N.), Nov., 1919, H.W.B.

†*S.G.M. 958, ♀, 959, ♂, Tokar (R.S.), May, 1923, W.W.B.

S.G.M. 2813, ♂, Sinkat (R.S.), Oct., 1924, W.W.B.

S.G.M. 3256, ♂, 3257, ♀, Khor Hanoyeit (R.S.), Mar., 1926, H.B.†.

†—Mongalla birds are all more or less intermediate between this and the next race.

‡—Specimens from the Red Sea districts show a tendency towards the Arabian and British Somaliland form, *E. c. orientalis* (Lor. & Hellm.). Birds from the White Nile region are said to be distinct and have been named *E. c. inornata* (Mearns), but the differences appear to be seasonal or due to age.

662. UGANDA BROWN TWIN SPOT.

Clytospiza monteiri ugandensis (v. Som.).

Resident—savana III and IV—fairly common.

MOUNTED.

S.G.M. 1461, ♂, 1462, ♀, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 685, ♂, 686, ♀, Tembura (B.G.), Apr., 1916, C.C.

663. CUT-THROAT WEAVER.

Amadina fasciata fasciata (Gmel.).

Resident—savana and arid (acacia-grass)—common.

MOUNTED.

*S.G.M. 2310, ♂, 2311, ♀, Wad Medani (B.N.), Aug., 1923, H.W.B. (R.C.).

SKINS.

*S.G.M. 1829, ♂, 1830, ♂, Makwar (B.N.), Dec., 1919, H.W.B.

*S.G.M. 687, ♂, 688, ♀, Wad Medani (B.N.), Aug., 1921, J.E.M.M.

*S.G.M. 2343, ♂, Wad Medani (B.N.), Dec., 1923, W.W.B.

S.G.M. 2679, ♂, 2681, ♀, 2682, ♂, Atbara (Ber.), July, 1924, W.W.B.

S.G.M. 3050, ♀, Talodi (N.M.), Jan., 1926, J.W.C.

664. QUAIL-FINCH.

Ortygospiza alticollis alticollis (Vieill.).

Resident—savana III and IV—fairly common.

MOUNTED.

S.G.M. 1460, ♂, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

665. CUCKOO-WEAVER.

Anomalospiza imberbis imberbis Cab.

Resident—savana III—common.

MOUNTED.

S.G.M. 1503, ♂ j, 1504, ♂, 1505, ♂, Kajo Kaji (Mon.), Apr., 1915, A.L.B. (A.L.B.).

666a. NILE RED-WINGED PYTELIA.

Pytilia phænicoptera emini Hartert.

Resident—savana III and IV—common.

MOUNTED.

S.G.M. 1306, ♀, Mongalla, Aug., 1914, A.L.B. (A.L.B.).

S.G.M. 1502, ♂, Kajo Kaji (Mon.), Apr., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 684, ♂, Yei (Mon.), Nov., 1915, C.C.

666b. ABYSSINIAN RED-WINGED PYTELIA.

Pytilia phænicoptera lineata Heugl.

Resident—savana II—fairly common.

667. YELLOW-BACKED PYTELIA.

Pytilia afra (Gmel.).

Resident—savana III—not common.

668a. SUDAN PYTELIA.

Pytilia melba soudanensis (Sharpe).

Resident—savana I, III and IV—common.

MOUNTED.

S.G.M. 1305, ♂, Mongalla, July, 1914, A.L.B. (A.L.B.).

SKINS.

S.G.M. 3049, ♀, Talodi (N.M.), Jan., 1926, J.W.C.

668b. SENEGAMBIAN PYTELIA.

Pytilia melba citerior Strickl.

Resident—arid (acacia-forest)—common.

SKINS.

*S.G.M. 681, ♂, 682, ♂, 683, ♀, El Obeid (Kor.), Aug., 1921, J.E.M.M.

*S.G.M. 2409, ♂, 2536, ♂, 3203, ♀, Rahad R. (B.N.), Dec., 1923, and Mar., 1924, W.W.B.

668c. ERITREAN PYTELIA.

Pytilia melba jessei Shelley.

Resident—savana II—common.

669. BLACK-BELLIED FIRE-FINCH.

Lagonosticta rara rara (Antin).

Resident—savana III and IV—not common.

MOUNTED.

S.G.M. 1433, ♂, 1412, ♀, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 1841, ♂, Rudu (Mon.), Mar., 1917, J.H.M.

*S.G.M. 1842, ♀, Kajo Kaji (Mon.), Apr., 1917, J.H.M.

670a. ABYSSINIAN RED-BILLED FIRE-FINCH.

Lagonosticta senegala brunneiceps Sharpe.

Resident—arid—very common.

SKINS.

*S.G.M. 2972, ♂, 2259, ♂, 2209, ♀, 2331, ♂, Wad Medani (B.N.), Aug.—Nov., 1923, H.W.B.

*S.G.M. 695, ♂?, 696, ♂?, Zeidab (Ber.), May, 1921, W.E.G.

S.G.M. 2818, ♂, Zeidab (Ber.), Aug., 1924, W.W.B.

†S.G.M. 692, ♂, Urbi (Don.), Nov., 1920, H.H.K.

†S.G.M. 693, ♂, 694, ♂, Letti (Don.), Dec., 1920, H.H.K.

†—These three Dongala birds are somewhat paler than the others and further material may prove them to be a distinct race.

670b. BAHR-EL-GHAZAL RED-BILLED FIRE-FINCH.

Lagonosticta senegala rhodopsis (Heugl.).

Resident—savana—common.

SKINS.

‡S.G.M. 1836, ♀, Bor (Mon.), July, 1919, J.S.H.

‡S.G.M. 3045, ♂, 3046, ♂, 3047, ♂, Talodi (N.M.), Feb. and Mar., 1926, J.W.C.

671. UPPER NILE BAR-BREASTED FIRE-FINCH.

Lagonosticta rufopicta lateritia Heugl.

Resident—savana III and IV—fairly common.

MOUNTED.

S.G.M. 1459, ♂, 1466, ♀, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

672a. BARO WAXBILL.

Estrilda astrild macmillani O.-Grant.

Resident—savana II and sudd—not common.

672b. ABYSSINIAN WAXBILL.

Estrilda astrild peasei Shelley.

Resident—savana III—not common.

673. GREY WAXBILL.

Estrilda troglodytes (Licht.).

Resident—savana—common.

MOUNTED.

S.G.M. 1470, ♂, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 700, ♀, 701, ♂, Malakal (U.N.), June, 1920, W.H.M.P.

*S.G.M. 1837, ♂, Kajo Kaji (Mon.), J.H.M.

S.G.M. 3037, ♀, 3038, ♀, 3039, ♂, 3040, ♀, 3041, ♂, 3042, ♀, 3043, ♂, 3044, ♂, Talodi (N.M.), Dec., 1925—Feb., 1926, J.W.C.

674a. RED-RUMPED WAXBILL.

Estrilda rhodopyga rhodopyga Sund.

Resident—arid—common.

SKINS.

*S.G.M. 2990, ♂, 2991, ♂, 2992, ♂, 2993, ♂, 2995, ♀, Wad Medani (B.N.), June, 1924, W.W.B.

*S.G.M. 2814, ♀, Um Bebeia (Ber.), July, 1924, W.W.B.

‡—These four specimens differ somewhat from those from farther north (c.f. also *Ibis*, 1918, p. 447). As Heuglin's name is available I have used it in order to call attention to the difference.

674b. UGANDA RED-RUMPED WAXBILL.

Estrilda rhodopyga centralis Kothe.

Resident—savana—common.

675. ZEBRA WAXBILL.

Estrilda subflava subflava (Vieill).

Resident—savana—common.

MOUNTED.

S.G.M. 1407, ♂, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

676. FAWN-BREASTED WAXBILL.

Estrilda paludicola paludicola Heugl.

Resident—savana III and IV—common.

MOUNTED.

S.G.M. 1409, ♂, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 1838, ♀, 1839, ♂, 1840, ♀, Kajo Kaji (Mon.), Jan.—Mar., 1917, J.H.M.

677a. BLACK-FACED WAXBILL.

Estrilda nigricollis nigricollis (Heugl.).

Resident—savana IV—common.

677b. TOGO BLACK-FACED WAXBILL.

Estrilda nigricollis togoensis Neum.

Resident—savana I—not common.

678. BLACK-THROATED WAXBILL.

Estrilda larvata (Rüpp.).

Resident—savana II and arid (acacia-forest) east—not common.

679. BLACK-CROWNED WAXBILL.

Estrilda nonnula nonnula Hartl.

Resident—savana III and IV—not common.

SKINS.

*S.G.M. 679, ♀, Yambio (B.G.), Mar., 1916, C.C.

680. GREY-HEADED OLIVE-BACK.

Nesocharis capistrata (Hartl.).

Resident—savana IV—fairly common.

SKINS.

*S.G.M. 680, ♀, Meridi (B.G.), Jan., 1916, C.C.

681a. RED-CHEEKED CORDON-BLEU.

Uræginthus bengalus bengalus (Linn.).

Resident—arid (acacia-grass)—very common.

SKINS.

*S.G.M. 2207, ♂, 2123, ♀, Wad Medani (B.N.), Aug., 1923, H.W.B.

681b. UGANDA RED-CHEEKED CORDON-BLEU.

Uræginthus bengalus ugandæ Zedl.

Resident—savana—very common.

MOUNTED.

S.G.M. 1347, ♂, Mongalla, July, 1914, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 675, ♂, 676, ♀, Tembura (B.G.), Mar.—Apr., 1916, C.C.

†*S.G.M. 3048, ♂, Talodi (N.M.), Jan., 1926, J.W.C.

682a. CHAD GREEN INDIGO-BIRD.

Hypochera chalybeata neumanni Alex.

Resident—Darfur—common.

682b. CAMEROON GREEN INDIGO-BIRD.

Hypochera chalybeata camerunensis Grote.

Probably occurs in savana.

683. NIGERIAN DUSKY INDIGO-BIRD.

Hypochera funerea wilsoni Hart.

Resident—savana III and IV—fairly common.

684. PURPLE INDIGO-BIRD.

Hypochera ultramarina ultramarina (Gmel.).

Resident—throughout—common.

MOUNTED.

S.G.M. 1133, ♂, Khartoum, July, 1913, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 697, ♂, Abu Fatma (Don.), Nov., 1920, H.H.K.

*S.G.M. 698, ♂, Urbi (Don.), Nov., 1920, H.H.K.

S.G.M. 2815, ♂, Um Debeia (Ber.), July, 1924, W.W.B.

S.G.M. 2816, ♂, Gendettu (Ber.), Oct., 1924, W.W.B.

S.G.M. 2817, ♂, Zeidab (Ber.), Aug., 1924, W.W.B.

*S.G.M. 770, ♂, Zeidab (Ber.), June, 1921, W.E.G.

*S.G.M. 2306, ♂, 2307, ♀, 2329, ♂, 2260, ♂, Wad Medani (B.N.), Aug.—Nov., 1923, H.W.B.

*S.G.M. 699, ♂, Malakal (U.N.), July, 1920, W.H.M.P.

*S.G.M. 1845, ♂, Abba I. (U.N.), Aug., 1919, J.S.H.

*S.G.M. 1846, ♂, Bor (Mon.), July, 1919, J.S.H.

†—More or less fusion of the two races occurs in the northern part of the savana belt.

685. ALEXANDER'S INDIGO-BIRD.

Hypochera nigeriae Alex.

Resident—Darfur—common.

686. PIN-TAILED WHYDAH.

Vidua macroura (Pallas).

Resident—savana and arid (acacia-grass)—common.

MOUNTED.

S.G.M. 2975, ♂, Wad Medani (B.N.), Sept., 1923, H.W.B. (R.C.).

SKINS.

S.G.M. 2686, ♂, Um Debeia (Ber.), July, 1924, W.W.B.

S.G.M. 2973, ♂, 2974, ♂, Wad Medani (B.N.), June, 1924, W.W.B.

*S.G.M. 2309, ♂, 2301, ♂, Wad Medani (B.N.), Aug.—Sept., 1923, H.W.B.

S.G.M. 267, ♂, Wad Medani (B.N.), Aug., 1921, J.E.M.M.

*S.G.M. 690, ♂, Wau (B.G.), July—Aug., 1916, C.C.

*S.G.M. 1917, ♂, Kajo Kaji (Mon.), Jan., 1917, J.H.M.

*S.G.M. 1916, ♂, Bor (Mon.), July, 1919, J.S.H.

*S.G.M. 1915, ♂, Shambe (B.G.), Aug., 1919, J.S.H.

687. PARADISE WHYDAH.

Steganura paradisæa (Linn.).

Resident—savana—common.

MOUNTED.

S.G.M. 1130, ♂, Mongalla, summer 1908, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 691, ♂, 1914, ♂, Torit (Mon.), Aug., 1918, J.H.R.Y.

688a. BLUE NILE PARADISE WHYDAH.

Steganura aucupum orientalis (Heugl.).

Resident—savana II and III and arid (acacia-forest) east—common.

SKINS.

S.G.M. 2410, ♂, Rahad R. (B.N.), Dec., 1923, W.W.B.

S.G.M. 2461, ♂, 2462, ♀, 2976, ♀, Rahad R. (B.N.), Jan.—June, 1924, W.W.B.

688b. NUBA MOUNTAINS PARADISE WHYDAH.

Steganura aucupum kadugliensis, Bowen.

Resident—savana I and arid (acacia-forest) west—common.

SKINS.

S.G.M. 3052, ♂, 3053, ♂, Talodi (N.M.), Dec., 1925, J.W.C.

688c. UELE PARADISE WHYDAH.

Steganura aucupum interjecta Grote.

Resident—savana IV—common.

SKINS.

S.G.M. 718, ♂, Yei (Mon.), Nov., 1915, C.C.

Family FRINGILLIDÆ.

KEY TO SPECIES.†

- | | | | | |
|-----|---|---|----|--|
| 1. | { | Cutting-edges of the mandibles not coterminus, leaving a gap in the outline of the closed bill; mandibular angle at chin very acute ... | 7 | |
| | | Cutting-edges of the mandibles coterminus, or nearly so; mandibular angle at chin very slightly indicated | 2 | |
| 2. | { | Adult with the bill red in life, and some rosy red colouring on the plumage, brightest on the wings and tail | | <i>Bucanetes githagineus</i> , 692. |
| | | No red on the plumage | 3 | |
| 3. | { | Basal half of the bill much swollen, remainder compressed, causing the sides to be very strongly curved | | <i>Serinus mozambicus</i> , 691. |
| | | Bill less swollen, fairly long and more slender, with the sides nearly straight from base to tip | 4 | |
| 4. | { | Nostrils covered by plumes | 5 | |
| | | Nostrils exposed | | <i>Ploceidæ</i> (<i>Passerinæ</i> (see key on page 90). |
| 5. | { | Crown uniform | | <i>Ploceidæ</i> (<i>Passerinæ</i> (see key on page 90). |
| | | Crown streaked | 6 | |
| 6. | { | Rump brown | | <i>Poliospiza gularis</i> , 689. |
| | | Rump white | | <i>Poliospiza leucopygia</i> , 690. |
| 7. | { | Tail with a white pattern on the outer feathers | 8 | |
| | | Tail without any white pattern | 14 | |
| 8. | { | Some bright yellow on the chest; under tail-coverts white | 9 | |
| | | No bright yellow on the chest; under tail-coverts buff or tawny | 11 | |
| 9. | { | Back more uniform; mantle cinnamon | 10 | |
| | | Back strongly mottled | | <i>Emberiza cabanisi</i> , 693. |
| 10. | { | Some white on the wing-coverts | | <i>Emberiza flaviventris</i> , 694. |
| | | No white on wing-coverts | | <i>Emberiza affinis</i> , 695. |
| 11. | { | No streaks on throat | 12 | |
| | | Throat streaked | | <i>Emberiza hortulana</i> , juv., 696. |
| | | | | <i>Emberiza cæsia</i> , juv., 697. |
| | | | | <i>Emberiza cineracea</i> , juv., 698. |
| 12. | { | Upper throat yellow | 13 | |
| | | Upper throat pale rufous; crop and most of head grey | | <i>Emberiza cæsia</i> , 697. |
| 13. | { | Abdomen rufous buff; thighs yellowish | | <i>Emberiza hortulana</i> , 696. |
| | | Abdomen yellowish or brownish white | | <i>Emberiza cineracea</i> , 698. |
| 14. | { | No white or black on head and throat | | <i>Fringillaria striolata</i> , juv., 700. |
| | | Head striped with black and white | 15 | |

†—After Shelley, "Birds of Africa."

15. { Crop black like the throat, with hoary
white or pale brown edges to the
feathers *Fringillaria striolata*, 700.
Crop cinnamon, like the breast and
under tail-coverts *Fringillaria tahapisi*, 699.

Sub-family *FRINGILLINÆ*.

689. KENYA STREAKY-HEADED SEED-EATER.

Poliospiza gularis striatipectus Sharpe.

Resident—savana III and IV—fairly common.

SKINS.

*S.G.M. 625, ♂, Yambio (B.G.), Mar., 1916, C.C.

690a. WHITE-RUMPED SEED-EATER.

Poliospiza leucopygia leucopygia (Sund.).

Resident—savana and arid (acacia-grass) east—common.

SKINS.

*S.G.M. 1855, ♂, Mongalla, Aug., 1919, J.S.H.

*S.G.M. 1879, ♂, Bor (Mon.), July, 1919, J.S.H.

*S.G.M. 1880, ♀, Jebelein (W.N.), Aug., 1919, J.S.H.

*S.G.M. 1881, ♀, Calhab (W.N.), Aug., 1919, J.S.H.

*S.G.M. 645, ♀, Malakal (U.N.), June, 1920, W.H.M.P.

*S.G.M. 646, ♂, Renk (U.N.), July, 1920, W.H.M.P.

*S.G.M. 2328, ♀, 2333, ♂, Wad Medani (B.N.), Aug., 1923, H.W.B.

690b. SENEGAL WHITE-RUMPED SEED-EATER.

* *Poliospiza leucopygia riggenbachi* (Neum.).

Resident—arid (acacia-grass) west—common.

691a. UGANDA YELLOW-FRONTED CANARY.

Serinus mozambicus barbatus (Heugl.).

Resident—savana III and IV—common.

MOUNTED.

S.G.M. 1441, ♀, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 1864, ♂, Rudu (Mon.), Feb., 1917, J.H.M.

*S.G.M. 1865, ♂, 1866, ♀, 1867, ♀, 1868, ♂, Kajo Kaji (Mon.), Mar.—Apr., 1917, J.H.M.

*S.G.M. 636, ♂, Meridi (B.G.), Feb., 1916, C.C.

*S.G.M. 637, ♂, Tembura (B.G.), Apr., 1916, C.C.

*S.G.M. 638, ♂, Yei (Mon.), Mar., 1916, C.C.

691b. SENNAR YELLOW-FRONTED CANARY.

Serinus mozambicus aurifrons Scl. & Praed.

Resident—savana I and II—common.

SKINS.

*S.G.M. 639, ♂, Ayod (U.N.), May, 1920, W.H.M.P.

S.G.M. 3082, ♂, 3083, ♀, 3084, ♂, 3085, ♂, 3086, ♂, 3087, ♀, 3088, ♂, 3089, ♀, Taldoi (N.M.), Dec., 1925—Feb., 1926, J.W.C.

692. TRUMPETER BULLFINCH.

Bucanetes githagineus githagineus (Licht.).

Resident—arid (extreme north)—common.

MOUNTED.

S.G.M. 887, ♂, Abu Fatma (Don.), Oct., 1922, H.H.K. (R.C.).

SKINS.

*S.G.M. 880, ♂, 881, ♂, 882, ♀, 884, ♀, 885, ♂, 886, ♀, Abu Fatma (Don.) Oct., 1922, H.H.K.

Sub-Family *EMBERIZINÆ*.

693. CABANIS' BUNTING.

Emberiza cabanisi cabanisi (Reichw.).

Resident—savana III and IV—not common.

SKINS.

*S.G.M. 642, ♂, Meridi (B.G.), Feb., 1916, C.C.

694. KORDOFAN GOLDEN-BREASTED BUNTING.

Emberiza flaviventris flavigastra Cretzsch.

Resident—savana and arid (acacia-forest)—common.

MOUNTED.

S.G.M. 1118, ♂, El Ein (Kor.), Mar., 1914, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 2392, ♂, Rahad R. (B.N.), Dec., 1923, W.W.B.

S.G.M. 2977, ♀, 2978, ♂, 2979, ♂, Rahad R. (B.N.), June, 1924, W.W.B.

695. BROWN-RUMPED BUNTING.

Emberiza affinis affinis Heugl.

Resident—savana—fairly common.

MOUNTED.

S.G.M. 1119, ♀, Raffle (B.G.), Feb., 1908, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 643, ♂, Yei (Mon.), Dec., 1915, C.C.

696. ORTOLAN BUNTING.

Emberiza hortulana Linn.

Winter visitor—throughout—common.

SKINS.

*S.G.M. 2253, ♂, 2280, ♀, 2319, ♀, Wad Medani (B.N.), Sept.—Oct., 1923, H.W.B.

S.G.M. 2695, ♂, Erkowit (R.S.), Sept., 1924, W.W.B.

697. BLUE-HEADED ORTOLAN BUNTING.

Emberiza caesia Cretschch.

Winter visitor—arid—very common.

MOUNTED.

S.G.M. 1138, ♂, 1143, ♂, Khartoum, Jan.—Oct., 1913, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 2161, ♂, Shekela (Kor.), Jan., 1923, R.G.A.

*S.G.M. 1860, ♂, 1861, ♀, 1862, ♂, 1863, ♂, Wad Medani (B.N.), Oct.—Nov., 1919, H.W.B.

*S.G.M. 2980, ♂, Wad Medani (B.N.), Nov., 1923, H.W.B.

S.G.M. 2696, ♂, Erkowit (R.S.), Sept., 1924, W.W.B.

698. SYRIAN ORTOLAN BUNTING.

Emberiza cineracea semenowi Sarudny.

Winter visitor—Red Sea Prov.—not common.

699a. ABYSSINIAN CINNAMON-BREASTED ROCK-BUNTING.

Fringillaria tahapisi septemstriata (Rüpp.).

Resident—savana II (jebels)—common.

699b. CHAD CINNAMON-BREASTED ROCK-BUNTING.

Fringillaria tahapisi goslingi Alex.

Resident—savana I, III and IV and arid (jebels)—very common.

MOUNTED.

S.G.M. 1522, ♂, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 644, ♂, El Obeid (Kor.), July, 1921, J.E.M.M.

S.G.M. 3079, ♂, 3080, ♂, 3081, ♂, Talodi (N.M.), Feb.—Mar., 1926, J.W.C.

*S.G.M. 1869, ♀, 1870, ♂, 1871, ♂, 1872, ♂, Kajo Kaji (Mon.), Mar.—Apr., 1917, J.H.M.

700a. HOUSE-BUNTING.

Fringillaria striolata striolata (Licht.).

Resident—arid (scrub) east—fairly common.

700b. ABYSSINIAN HOUSE-BUNTING.

Fringillaria striolata saturatior Sharpe.

Resident—Red Sea Hills—fairly common.

700c. SAHARA HOUSE-BUNTING.

Fringillaria striolata sahari (Levaill., jun.).

Resident—arid (scrub) west—common.

700d. JEBEL MARRA HOUSE-BUNTING.

Fringillaria striolata jebelmarrae Lynes.

Resident—Jebel Marra (above 7,000 ft.), Darfur—very common.

700e. HOUSE-BUNTING.

Fringillaria striolata subsp. ?

Resident—savana.

MOUNTED.

†S.G.M. 1394, ♂, Kajo Kaji (Mon.), Mar., 1915, A.L.B. (A.L.B.).

†—This appears to be the only record for the species from the savana districts. Without any comparative material I cannot say whether this specimen represents an extension of range of one of the known races, or a new form.

— E N D —

APPENDIX A.

Additions and Corrections to Part I.

Since the publication of Part I of this Catalogue a great deal has been added to our knowledge of African birds. The following additions and corrections will help to bring that part up to date.

Page 19. After No. 11, add :

Order - - PROCELLARIIFORMES.

Family *HYDROBATIDÆ*.

LEACH'S PETREL.

Oceanodroma leucorhoa leucorhoa (Vieill.).

Recorded in the Red Sea.

Page 25. For Family *PLEGADIDÆ*, substitute Family *PLATALEIDÆ*.

Page 26. No. 43, substitute :

43. RED SEA SPOONBILL.

Platalea leucorodia archeri Neum.

Resident—coast and rivers (north)—fairly common.

Page 32. No. 63, for *melanonotus*, read *melanotos*.

Page 34. No. 73, for Smith, read (Smith).

Page 40. No. 85, for *chiquera*, read *chicquera*.

Page 42. After No. 93, add :

BAT-EATING BUZZARD.

Machærhamphus anderssoni (Gurney).

Recorded from Mongalla Province.

Page 43. After No. 103, add :

CROWNED HAWK-EAGLE.

Stephanoaëtus coronatus (Linn.).

Recorded from the Bahr el Ghazal.

Page 45. No. 116, substitute :

116. LONG-LEGGED BUZZARD.

Buteo rufinus rufinus (Cretzsch.).
Winter visitor—arid—fairly common.

Page 45. No. 120, substitute :

120. LITTLE SPARROW-HAWK.

Accipiter minulus (Daud.).
Resident—savana II—fairly common.

Page 45. No. 121, substitute :

121. BLACK SPARROW-HAWK.

Accipiter melanoleucus melanoleucus Smith.
Resident—savana II—rare.

Page 46. No. 124, substitute :

124a. SOUTHERN GABAR GOSHAWK.

Melierax gabar gabar (Daud.).
Resident—savana—common.

MOUNTED.

†S.G.M. 1513, ♂, Rejaf (Mon.), Apr., 1915, A.L.B. (A.L.B.).

SKINS.

†S.G.M. 185, ♂, Meridi (B.G.), Feb., 1916, C.C.

124b. NORTHERN GABAR GOSHAWK.

Melierax gabar niger (Bonn. & Vieill.).
Resident—arid—common.

SPECIMENS.

All listed on page 46, except the two mentioned above.‡

Page 50. No. 137c, substitute :

137c. MONGALLA CLAPPERTON FRANCOLIN.

Francolinus clappertoni grisescens Mearns.
Resident—savana III—common.

†—Melanistic phase.

‡—It is unfortunate that, by the rules of nomenclature, this, the paler form, must bear the name *niger*, which was originally applied to the melanistic phase before it was known that the two were only phases of the same species.

Page 54. No. 156, substitute :

156. AFRICAN JACANA.

Actophilornis africanus (Gmel.).

Resident—sudd and rivers (south)—abundant.

Page 55. No. 160, substitute :

160. EUROPEAN CRANE.

Grus grus grus (Linn.).

Winter visitor—arid (acacia-grass) and rivers—common.

Page 55, No. 161, substitute :

161a. STIEBER'S ARABIAN BUSTARD.

Choriotis arabs stieberi (Neum.).

Resident—arid—common.

161b. BUTLER'S ARABIAN BUSTARD.

Choriotis arabs butleri Bann.

Resident—savanna—common.

Page 56. After No. 164, add :

HOUBARA BUSTARD.

Chlamydotis undulata undulata (Jacq.).

Resident—arid—rare.

MACQUEEN'S BUSTARD.

Chlamydotis undulata macqueeni (Gray).

Wanderer—Red Sea coast—rare.

Page 58. No. 171b, substitute :

171b. RED SEA KENTISH PLOVER.

Charadrius alexandrinus elegans Reichw.

Resident—coast—not common.

Page 58. After No. 171b, add :

WESTERN MONGOLIAN SAND-PLOVER.

Charadrius mongolus atrifrons Wagl.

Passage migrant—coast—not common.

Page 58. No. 172, substitute :

172. KITTLITZ'S SAND-PLOVER.

Charadrius varius varius Vieill.

Resident—rivers—fairly common.

Page 60. After No. 183, add :

ABYSSINIAN BLACK-WINGED PLOVER.

Stephanibyx melanopterus melanopterus Cretzsch.

Resident—savanna II—rare.

Page 65. No. 203, for rare, read fairly common.

Page 66. No. 204, for rivers, read rivers and coast.

Page 67. No. 209, for rivers, read rivers and coast.

Page 67. After No. 209, add :

SPOTTED REDSHANK.

Tringa erythropus (Pallas).

Recorded on Red Sea coast (doubtful).

Page 68. After 212b, add :

SLENDER-BILLED CURLEW.

Numenius tenuirostris Vieill.

Said to be a winter visitor to Khartoum (doubtful).

Page 70. No. 220b, substitute :

220b. GABOON WHITE-COLLARED PRATINCOLE.

Galachrysis nuchalis marchei (Oust.).

Resident—rivers (extreme south)—not common.

Page 70. No. 221, substitute :

221. EGYPTIAN PLOVER OR CROCODILE BIRD.

Pluvianus ægyptius ægyptius (Linn.).

Resident—rivers—common.

Page 71. No. 224, substitute :

224a. SENEGAL STONE-CURLEW.

Burhinus senegalensis senegalensis (Swains).

Resident—rivers (extreme south)—common.

SPECIMENS.

The four from Upper Nile and Mongalla Provinces belong here, but all specimens from the southern Sudan are more or less intermediate between this race and the next.

224b. SUDAN STONE-CURLEW.

Burhinus senegalensis assimilis (Bädeker).

Resident—rivers (north)—common.

SPECIMENS.

The four from Dongola Province.

Page 75. After No. 231, add :

LITTLE GULL.

Larus minutus Pallas.

Winter visitor—Red Sea—occasional.

Page 75. After No. 233, add :

POMATORHINE SKUA.

Stercorarius pomarinus (Temm.).

Wanderer—coast—occasional.

Page 78. No. 250, substitute :

250. CROWNED SANDGROUSE.

Pterocles coronatus coronatus Licht.

Resident—arid (thin scrub)—fairly common.

Page 79. Nos. 251 and 252, substitute :

251. LICHTENSTEIN'S SANDGROUSE.

Nyctiperdix lichtensteinii lichtensteinii (Temm.).

Resident—arid (scrub)—fairly common.

252. EASTERN FOUR-BANDED SANDGROUSE.

Nyctiperdix quadricinctus lowei Grant.

Resident—savanna and arid (acacia-forest)—fairly common.

Page 86. No. 268, substitute :

268a. BLACK CUCKOO.

Cuculus clamosus clamosus Lath.

Summer visitor—savanna—not common.

268b. ETHIOPIAN BLACK CUCKOO.

Cuculus clamosus chalybeus Heugl.

Resident—savana III and IV—not common.

Page 86. No. 271, substitute :

271a. BLACK-AND-WHITE CUCKOO.

Clamator jacobinus jacobinus (Bodd.).

Resident—savana—not common.

271b. SOUTH AFRICAN BLACK-AND-WHITE CUCKOO.

Clamator jacobinus hypopinarus (Cab. & Heine).

Summer visitor—savana and arid (acacia-forest)—fairly common.

Page 88. No. 277, substitute :

277a. WEST AFRICAN BLUE-HEADED COUCAL.

Centropus monachus occidentalis Neum.

Resident—savana IV—common.

277b. NILE BLUE-HEADED COUCAL.

Centropus monachus fischeri Reichw.

Resident—savana III—common.

Page 95. No. 303, substitute :

303a. STRIPED KINGFISHER.

Halcyon chelicuti chelicuti (Stanley).

Resident—savana—common.

303b. DESERT STRIPED KINGFISHER.

Halcyon chelicuti eremogiton Hartert.

Resident—arid (west)—common.

SPECIMENS.

The five from Talodi (N.M.).

Page 102. No. 322, substitute :

322. SOUTH AFRICAN MARSH-OWL.

Asio capensis capensis (Smith).

Resident—sudd—common.

Page 103. No. 324, substitute :

324. SUDAN SCOPS-OWL.

Otus senegalensis pygmeus (Brehm).

Resident—savana—not common.

Page 107. No. 342, substitute :

342a. LONG-TAILED NIGHTJAR.

Scotornis climacurus climarcus (Vieill.).

Resident—arid (migrating south in winter)—very common.

MOUNTED.

S.G.M. 1112, ♂, Wad El Hag, Dinder R. (Fung), Mar., 1915, A.L.B. (A.L.B.).

SKINS.

*S.G.M. 253, ♀, 254, ♂, El Obeid (Kor.), Aug., 1921, J.E.M.M.

*S.G.M. 252, ♀, Zeidab (Ber.), June, 1921, W.E.G.

*S.G.M. 262, ♀, Zeidab (Ber.), Mar., 1921, H.W.B.

*S.G.M. 1759, ♂, 1760, ♀, 1761, ♀, 1762, ♀, Makwar (B.N.), Oct. and Nov., 1919, H.W.B.

S.G.M. 2905, ♂, Wad Medani (B.N.), June, 1924, W.W.B.

S.G.M. 2644, ♂, Gendettu (Ber.), Oct., 1924, W.W.B.

342b. WHITE NILE LONG-TAILED NIGHTJAR.

Scotornis climacurus nigricans Salvad.

Resident—savana—very common.

SKINS.

S.G.M. 1757, ♂, Kajo Kaji (Mon.), Apr., 1917, J.H.M.

S.G.M. 1758, ♂, Rudu (Mon.), Mar., 1917, J.H.M.

S.G.M. 263, ♀, Ayod (Mon.), May, 1920, W.H.M.P.

S.G.M. 2932, ♀, Rejaf (Mon.), Jan., 1925, H.H.K.

Page 109. No. 347, substitute :

347. LITTLE AFRICAN SWIFT.

Micropus affinis affinis (Gray).

Resident—savana (hills)—common.

Page 110. No. 350, substitute :

350. SUDAN PALM-SWIFT.

Cypsiurus parvus parvus (Licht.).

Resident—throughout (wherever “doleib” and “dôm” palms grow)—very common.

Page 110. No. 351b and c, substitute :

351b. UGANDA SPECKLED MOUSEBIRD.

Colius striatus jebelensis Mearns.

Resident—savana III—common.

351c. ABYSSINIAN SPECKLED MOUSEBIRD.

Colius striatus leucotis Rüpp.

Resident—arid (acacia-forest) east—not common.

351d. NILE SPECKLED MOUSEBIRD.

Colius striatus erlangeri Zedl.

Resident—savana I and II—not common.

Page 112. No. 355, substitute :

355a. BLACK-BILLED BARBET.

Lybius guifsobalito guifsobalito Hermann.

Resident—savana II—common.

SPECIMENS.

The two mounted ones from Roseires.

355b. UGANDA BLACK-BILLED BARBET.

Lybius guifsobalito ugandæ Berger.

Resident—savana III and IV—common.

SPECIMENS.

All the seven skins from Mongalla Province

Page 113. No. 358, add :

358b. ABYSSINIAN DOUBLE-TOOTHED BARBET.

Lybius bidentatus æthiops Neum.

Resident—savana III—not common.

Page 114. No. 361, substitute :

361a. BLUE NILE YELLOW-BREASTED BARBET.

Trachyphonus margaritatus margaritatus (Cretzs.).

Resident—arid (except Red Sea Prov.)—very common.

SPECIMENS.

All except the Erkowit bird.

361b. RED SEA YELLOW-BREASTED BARBET.

Trachyphonus margaritatus Kingi Bowen.

Resident—arid (Red Sea Prov.)—very common.

SKINS.

S.G.M. 2654, ♀, Erkowit (R.S.), Aug., 1921, W.W.B.

After No. 362, add :

MONGALLA RED-AND-YELLOW BARBET.

Trachyphonus erythrocephulus versicolor Hartl.

Resident—savana III—not common.

Page 116. After No. 369, add :

ABYSSINIAN CARDINAL WOODPECKER.

Dendropicos fuscescens hemprichii (Ehr.).

Resident—savana—not common.

APPENDIX B.

List of Sudan Type-Localities.

The locality from whence came the specimen upon which the original description is based is said to be the "type-locality" of a species, or subspecies. The original specimen is said to be the "type," and specimens collected subsequently from the same locality are said to be "topotypical." Such topotypical specimens, or "topotypes," are often of the utmost importance to ornithologists studying the various geographical forms (or subspecies) of wide-ranging species, for they constitute a standard for comparison.

The following list contains references to the original descriptions of all valid species and subspecies of birds described from within the boundaries of the Sudan. These have been arranged geographically under Provinces. The list will, it is hoped, form a guide for collectors who may, upon visiting a certain region, desire to obtain any topotypical specimens which occur therein. Each species listed is given the same number as that which it received in the main part of the Catalogue, and in instances where the Sudan Government Museum possesses topotypical specimens this number is preceded by an asterisk (*). It is hoped that future collectors will make an effort to add to the Museum's collection as many topotypical specimens as possible.

In early days, before the current practice of designating type-localities came into being, only very vague statements of the range of a species were given. Sometimes more recent research has necessitated the designation of a "restricted type-locality" by a later worker, and in such cases the species is listed below under the latter locality. In many cases this has not been done, however, and hence at the beginning of this list a number of species are arranged under such general headings as "Africa" or "Nubia."

The references are copied from Sclater's "Systema Avium Æthiopicarum" and have not been verified by me personally.

AFRICA.

***7. Phalacrocorax africanus africanus** (Gmel.).

Pelecanus africanus Gmelin, Syst. Nat. i pt. 2, p. 577, 1789 : Africa.

***9. Pelecanus onocrotalus** Linnæus.

Syst. Nat. 10th ed., p. 132, 1758 : Africa.

33. Dissoura episcopus microscelis (Gray).

Ciconia microscelis G. R. Gray, Genera Bds. iii, p. 561, pl. 151, 1848 : no type-locality ; Africa (see Reichenow, Vög. Afr. i, p. 348).

115. Buteo buteo vulpinus (Gloger).

Falco vulpinus Gloger, Abänd. Vög. durch Einfl. des Klima's, p. 141, 1833 : Africa (ex Lichtenstein, MS. in Berlin Mus.).

***419. Campephaga phœnicea** (Lath).

Ampelis phœnicea Latham, Ind. Orn. i, p. 367, 1790 : Africa.

***610. Cinnerys coccinigaster** (Lath.).

Certhia coccinigaster Latham, Suppl. Ind. Orn., in Gen. Synop., Suppl. ii, p. xxxv, 1801 : Africa.

654. Euplectes afra (Gmel.).

Loxia afra Gmelin, Syst. Nat. i, pt. 2, p. 857, 1789 : Africa.

NORTH AFRICA.

1. Struthio camelus camelus Linn.

Struthio camelus Linnæus, Syst. Nat. 10th ed., p. 155, 1758 : "Syria, Arabia, Africa" ; restricted type-locality, North Africa (*vide* Rothschild, Bull. Brit. Orn. Cl. xxxix, p. 83).

NORTH-EAST AFRICA.

349. Micropus horus (Heugl.).

Cypselus affinis var. *horus* Heuglin, Orn. N.O.-Afr. i, p. 147, 1869 : N.E. Africa.

“NUBIA.”

73. **Torgos tracheliotus nubicus** (Smith).
Vultur nubicus H. Smith, in Griffith's An. Kingd. i, p. 164,
1829 : Nubia.
- *78b. **Falco biarmicus tanypterus** Schleg.
Falco tanypterus Schlegel, Abhandl. Geb. Zool. Vergl.
Anat. Heft iii, pp. 8, 16, pls. xii, xiii, 1844 : Nubia (*vide*
Hartert, Nov. Zool. xxii, p. 178).
- *250. **Pterocles coronatus coronatus** Licht.
Pterocles coronatus H. Lichtenstein, Verz. Doubl., p. 65,
1823 : Nubia.
- *251. **Nyctiperdix lichtensteinii lichtensteinii** (Temm.).
Pterocles lichtensteinii Temminck, Pl. Col. Livr. 60, pls. 355,
361, 1825 : Nubia.
- *259a. **Streptopelia roseogrisea roseogrisea** (Sund.).
Columba roseogrisea Sundevall, K. Sv. Vet.-Akad. Handl.
new ser. ii, No. 3, p. 54, 1857 : Nubia.
- *307. **Merops nubicus nubicus** Gmel.
Merops nubicus Gmelin, Syst. Nat. i, pt. i, p. 464, 1788 :
Nubia.
- *333a. **Caprimulgus nubicus nubicus** Licht.
Caprimulgus nubicus Lichtenstein, Verz. Doubl., p. 59,
1823 : Nubia.
- *350. **Cypsiurus parvus parvus** (Licht.).
Cypselus parva Lichtenstein, Verz. Doubl., p. 58, 1823 :
Nubia.
- *367. **Campethera nubica nubica** (Bodd.).
Picus nubica Boddaert, Tabl. Pl. Enlum., p. 41, 1783 :
Nubia (ex Pl. Enlum., No. 667).
- *394b. **Eremopterix leucotis melanocephala** (Licht.).
Alauda melanocephala Lichtenstein, Verz. Doubl., p. 28,
1823 : “Nubia and Senegambia”—Nubia. *apud* Hartert.

- *395a. **Eremopterix nigriceps albifrons** (Sund.).
Caraphites albifrons Sundevall, Œfv. K.-Vet. Förh. vii,
p. 127, May, 1850 : Nubia.
- *418. **Argya fulva acaciæ** (Licht.).
Sphenura acaciæ Lichtenstein, Verz. Doubl., p. 40, 1823 :
Nubia.
- *433. **Sylvia hortensis crassirostris** Cretzsch.
Sylvia crassirostris Cretzschmar, Atlas zu der Reise Vög.,
p. 49, pl. 33, fig. a, 1830 : Nubia.
- *443a. **Hippolais pallida pallida** (H. & E.)
Currucua pallida Hemprich & Ehrenberg, Symb. Phys.
fol. bb, 1828 : Egypt and Nubia.
- *455. **Spiloptila clamans** (Temm.).
Malurus clamans Temminck, Pl. Col. Livr. 78, pl. 466,
fig. 2, 1828 : Nubia.
- *458a. **Prinia gracilis gracilis** (Licht.).
Sylvia gracilis Lichtenstein, Verz. Doubl., p. 34. 1823 :
Nubia.
- *493. **Œnanthe isabellina** (Temm.).
Saxicola isabellina Temminck & Langier, Pl. Col. Livr. 79,
pl. 472, fig. i, 1829 : Nubia.
495. **Œnanthe xanthopyrna** (H. & E.).
Saxicola xanthopyrna Hemprich & Ehrenberg, Symb.
Phys. fol. dd., 1828 : Nubia.
499. **Œnanthe monacha** (Temm.).
Saxicola monacha Temminck, Pl. Col. Livr. 60, pl. 359,
fig. i, 1825 : Nubia.
- *501a. **Œnanthe leucopyga leucopyga** (Brehm).
Vitiflora leucopyga Brehm, Vögelfang, p. 225, 1855 :
“Egypt and S. Europe”; type in Tring Mus. from Nubia.
- *564. **Fiscus nubicus** (Licht.).
Lanius nubicus Lichtenstein, Verz. Doubl., p. 47, 1823 :
Nubia.

SUDAN.

***494. *Ceananthe bottæ heuglini* (Finsch & Hartl.).**

Saxicola heuglini Finsch & Hartlaub, Vög. Ost.-Afr., p. 259, 1870: "Gondar": *errore*, the type probably came from the Sudan.

***640a. *Sitagra tæniopterus tæniopterus* Reichb.**

Ploceus tæniopterus Reichenbach, Singv., p. 78, pl. 36, figs. 281, 282, 1863: Sudan (except Darfur).

EASTERN SUDAN.

224b. *Burhinus senegalensis assimilis* (Bädeker).

Edicnemus senegalensis assimilis Bädeker, Journ. f. Orn., vol. 1, 1853, Extra-Heft, p. 117, 1854: Eastern Sudan.

HALFA PROVINCE.

WADI HALFA.

441. *Phylloscopus bonelli orientalis* (Brehm.).

Phyllopneuste orientalis C. L. Brehm, Vögelfang, p. 232 (misprinted 332), 1855: Wadi Halfa.

DONGOLA PROVINCE.

34. *Sphenorynchus abdimii* (Licht.).

Ciconia abdimii Lichtenstein, Verz. Doubl., p. 76, 1823: near Dongola, Sudan.

77c. *Falco peregrinus pelegrinoides* Temm.

Falco pelegrinoides Temminck, Pl. Col. Livr. 81, pl. 479, 1829: Nubia (*i.e.*, Dongola, *vide* Mus. Pays.-Bas, Falcones, p. 6).

123b. *Melierax metabates neumanni* Hart.

Melierax canorus neumanni Hartert, Vög. pal. Fauna ii, p. 1165, 1914: Dongola Province, Sudan.

***257a. *Streptopelia decipiens decipiens* (Finsch & Hartl.).**

Turtur decipiens Finsch & Hartlaub, Vög. Ostaf., p. 544, 1870: East Africa, *errore*; more probably Dongola (*c.f.* Zedlitz, Journ. f. Orn., p. 647, 1914).

***386a. *Alæmon alaudipes meridionalis* (Brehm.).**

Certhilauda meridionalis A. E. Brehm, Journ. f. Orn., p. 77, 1854 : Dongola.

***530. *Riparia paludicola minor* (Cab.).**

Cotyle minor Cabanis, Mus. Hein. i, p. 49, 1850 : N.E. Africa, i.e., Dongola (see Reichenow, Journ. f. Ornith., p. 88, 1920).

560d. *Lanius excubitor leucopygos* Ehr.

Lanius leucopygos Ehrenberg, in Hempr. & Ehr., Symb. Phys., fol. dd.e., 1828 : Dongola.

***605. *Hedydipna metallica* (Licht.).**

Nectarinia metallica Lichtenstein, Verz. Doubl., p. 15, 1823 : Dongola.

***632. *Auripasser luteus* (Licht.).**

Fringilla lutea Lichtenstein, Verz. Doubl., p. 24, 1823 : Dongola.

AKASHEH.

389c. *Galerida cristata altirostris* Brehm.

Galerida altirostris C. L. Brehm, Vögelfang, p. 124, 1855 : Akasheh, Dongola Prov.

AMBUKOL.

388b. *Ammomanes deserti erythrochroa* Reichw.

Ammomanes lusitana erythrochroa Reichenow, Journ. f. Orn., p. 307, 1904 : Ambukol, Dongola.

590. *Lamprocolius chalybeus chalybeus* (Hemp. & Ehr.).

Lamprotornis chalybeus Hemprich & Ehrenberg, Symb. Phys. fol. y, pl. 10, 1828 : Ambukol, Dongola.

630. *Passer simplex simplex* (Licht.).

Fringilla simplex Lichtenstein, Verz. Doubl., p. 24, 1823 : Ambukol, on the Nile.

701a. *Fringillaria striolata striolata* (Licht.).

Emberiza striolata Lichtenstein, Verz. Doubl., p. 24, 1823 : Emberkohl.

BERBER PROVINCE.

FIFTH CATARACT OF THE NILE.

220a. *Galachrysia nuchalis nuchalis* (Gray).

Glareola nuchalis G. R. Gray, Proc. Zool. Soc. Lond. for 1849, p. 63, pl. ix, 1850 : Fifth Cataract of the Nile, near Berber.

KURGOS.

164. *Neotis nuba* (Cretzsch.).

Otis nuba Cretzschmar, in Rüpp. Atlas, Vög. p. i, pl. i, 1826 : Kurgos, near Shendi.

698. *Emberiza caesia* Cretzschmar, in Rüpp. Atlas, Vög., p. 17, pl. 10, 1827 : Kurgos Island, Berber district, Sudan.

MUTMIR.

375b. *Mesopicos goertæ koenigi* Neum.

Mesopicos goertæ königi Neumann, Orn. Monatsb., p. 181, 1903 : Mutmir.

SHENDI.

116. *Buteo rufinus rufinus* (Cretzsch.).

Falco rufinus Cretzschmar, in Rüpp. Atlas, p. 40, pl. 27, 1829 : Upper Nubia, Shendi, and Sennar.

623. *Gymnoris pyrgita pallida* Neumann, Bull. Brit. Orn. Cl. xxi, p. 70, 1908 : Shendi, White Nile.

RED SEA PROVINCE.

ERBA HILLS.

133. *Ammoperdix heyi cholmleyi* Grant.

Ammoperdix cholmleyi O.-Grant, Handbook Game-birds, ii, p. 293, 1897 : Erba hills, near Suakin.

ERKOWIT.

*139. *Francolinus erckeli pentoni* M.-Praed, Bull. Brit. Orn. Cl. xl, p. 141, 1920 : Erkowit.

*361b. *Trachyphonus margaritatus kingi* Bowen, Proc. Acad. Nat. Sci., Phila., lxxxiii, p. 229, 1931 : Erkowit, Red Sea Prov.

GEBEIT.

- 253c. *Columba livia butleri* Meinertzhagen, Bull. Brit. Orn. Cl. xlii, p. 6, 1921 : Gebeit.

RED SEA AND COAST.

- *20. *Demigretta schistacea* (Ehr.).

Ardea (Leptorodias) schistacea Ehrenberg, in Hempr. & Ehr. Symb. Phys., Aves, fol. i, pl. 6, 1823 : northern Red Sea.

- *23b. *Butorides striatus brevipes* (Ehr.).

Ardea (Nycticorax) brevipes Ehrenberg, in Hempr. & Ehr. Symb. Phys., Aves, i, fol. m, note 2, 1823 : "ad ripas Nili et ad Maris rubri littus." (*B. s. atricapillus* is the form occurring on the Nile).

232. *Larus leucophthalmus* Temminck, Pl. Col. livr. 62, pl. 366, 1825 : "North Africa" (*i.e.*, coasts of the Red Sea).

- *233. *Larus hemprichii* (Bruch.).

Adelarus hemprichii Bruch, Journ. f. Ornith. 1853, p. 106 : Red Sea.

- *239. *Sterna bengalensis par* (Math. & Ired.).

Pelecanopus bengalensis par Mathews and Iredale, Man. Bds. Australia, i, p. 94, 1921 : Red Sea.

240. *Sterna bergii velox* Cretzsch.

Sterna velox Cretzschmar, in Rüpp. Atlas Vög., p. 21, pl. 13, 1827 : coast of the Red Sea.

242. *Sterna anæthetus fuligula* Licht.

Sterna fuligula H. Lichtenstein, Forster's Descr. Anim., p. 276, 1844 : Red Sea.

246. *Anous stolidus plumbeigularis* Sharpe.

Anous plumbeigularis Sharpe, Phil. Trans. clxviii, p. 468, 1879 : Red Sea.

KASSALA PROVINCE.

637. *Sitagra capitalis dimidiata* (Antin. & Salvad.).

Hyphantornis dimidiata Antinori & Salvadori, Atti R. Accad. Torino, viii, p. 360, 1873 : Kassala.

GALLABAT.

87. **Falco alopex alopex** (Heugl.).

Tinnunculus alopex Heuglin, Ibis, 1861, p. 69, pl. iii :
Gallabat, Egyptian Sudan.

BLUE NILE PROVINCE.

17. **Mesophox intermedius brachyrhynchus** (Brehm.).

Herodias (Egretta) brachyrhynchus Brehm, Journ. f. Ornith.
1858, p. 471 : Blue Nile.

*98. **Aquila rapax raptor** Brehm.

Aquila raptor A. E. Brehm, Naumannia, 1855, p. 13 : Blue
and White Niles.

*546c. **Tchagra senegala remigialis** (Hartl. & Finsch).

Telephonus remigialis Hartlaub & Finsch, Vög. Ost.-Afr.,
p. 340, 1870 : " Abyssinia " (probably lower Blue Nile).

WAD MEDANI.

*615b. **Nectarinia pulchella lucidipectus** Hartert, Nov. Zool. xxviii,
p. 123, 1921 : Wad Medani, Blue Nile.

SENNAR.—The locality " Sennar " is here considered as referring to the Sennar district (old Sennar Province) rather than to the town of Sennar only. Recent alterations in the provincial boundaries have placed the town of Sennar in the Blue Nile Province, and the remainder of old Sennar Province is now called Fung Province. Should " Sennar " be considered as referring to the town alone, then the following should be listed under Blue Nile Province only :—

(*Pseudogyps africanus* (Salvad.)—see under Fung Prov.)

(*Circaëtus cinerascens* Müll.—see under Fung Prov.)

(*Melittophagus bullocki frenatus* (Hartl.)—see under Fung
Prov.)

(*Caprimulgus eximius eximius* Temm.—see under Fung
Prov.)

(*Pogoniulus chrysoconus zedlitzii* (Neum.)—see under Fung
Prov.)

(*Trachyphonus margaritatus margaritatus* (Cretzsch.)—see
under Fung Prov.)

- (*Otus senegalensis pygmeus* (Brehm)—see under Fung Prov.)
 (*Turdoides leucocephala leucocephala* Cretzsch—see under Fung Prov.)
 (*Anthoscopus punctifrons* (Sund.)—see under Fung Prov.)
 (*Lamprocolius chloropterus cyanogenys* Sund.—see under Fung Prov.)
 (*Passer domesticus arboreus* Bp.—see under Fung Prov.)
 (*Gymnoris dentata dentata* (Sund.)—see under Fung Prov.)
 (*Quelea quelea aethiopica* (Sund.)—see under Fung Prov.)
 (*Estrilda rhodopyga rhodopyga* Sund.—see under Fung Prov.)
 (*Polioptila leucopygia leucopygia* (Sund.)—see under Fung Prov.)
 (*Serinus mozambicus aurifrons* ScL. & Praed—see under Fung Prov.)

FUNG PROVINCE.

- (*Mesophoyx intermedius brachyrhynchus* (Brehm)—see under Blue Nile Prov.)
72. **Pseudogyps africanus** (Salvad.).
Gyps africanus Salvadori, Nat. Stor. R. Accad. Torino, 1865, p. 133 : Sennar.
 (*Aquila rapax raptor* Brehm.—see under Blue Nile Prov.)
110. **Circaetus cinerascens** J. W. v. Müller, Naumannia, 1851, Heft iv, p. 27 : Sennar.
 (*Buteo rufinus rufinus* (Cretzsch.)—see under Berber Prov.)
 (*Streptopelia vinacea barbaru* Antin.—see under Upper Nile Prov.)
- *310. **Melittophagus bullocki frenatus** (Hartl.).
Merops frenatus Hartlaub, Journ. f. Ornith. 1854, p. 257 : Sennar.
324. **Otus senegalensis pygmeus** (Brehm.).
Scops pygmaea C. L. Brehm, Der Vollst. Vögelf., p. 43, 1855 : Sennar.

338. **Caprimulgus eximius eximius** Temm.
Caprimulgus eximius Temminck, Pl. Col. livr. 67, pl. 398,
 1826 : Sennar.
- *360b. **Pogoniulus chrysoconus zedlitzi** (Neum.).
Barbatula chrysocoma zedlitzi Neumann, Bull. Brit. Orn.
 Cl. xxiii, p. 30, 1908 : Sennar.
361. **Trachyphonus margaritatus magaritatus** (Cretzsch.).
Bucco margaritatus Cretzschmar, in Rüpp. Atlas, p. 30,
 pl. 20, 1826 : Sennar.
570. **Anthoscopus punctifrons** (Sund.).
Ægithalus punctifrons Sundevall, Öfv. K. Sv. Vet.-Akad.
 Förh. vii, p. 129, 1850 : Sennar.
- 592b. **Lamprocolius chloropterus cyanogenys** Sund.
Lamprocolius cyanogenys Sundevall, Öfv. K. Sv. Vet.-
 Akad. Förh. vii, p. 127, 1850 : Sennar.
624. **Gymnoris dentata dentata** (Sund.).
Xanthodira dentata Sundevall, Öfv. K. Sv. Vet.-Akad.
 Förh. vii, p. 127, 1850 : N.E. Africa ; type in Stockholm
 Museum from Sennar.
- 626b. **Passer domesticus arboreus** Bp.
Passer arboreus Bonaparte, Consp. Gen. Av. i, p. 510,
 1850 : Sennar.
647. **Quelea quelea æthiopica** (Sund.).
Ploceus æthiopicus Sundevall, Öfv. K. Sv. Vet.-Akad.
 Förh. vii, p. 126, 1850 : Sennar.
- 675a. **Estrilda rhodopyga rhodopyga** Sund.
Estrilda rhodopyga Sundevall, Öfv. K. Sv. Vet.-Akad.
 Förh. vii, p. 126, 1850 : N.E. Africa ; Sennar (see Shelley,
 Bds. Afr. iv, p. 206.).
- 691a. **Poliospiza leucopygia leucopygia** (Sund.)
Crithagra leucopygia Sundevall, Öfv. K. Sv. Vet.-Akad.
 Handl. vii, p. 127, 1850 : Sennar.

692b. *Serinus mozambicus aurifrons* Sclater & M.-Praed, Ibis, p. 466, 1918 : Sennar (ex Heuglin, Syst. Uebers. in SB. Akad. Wien., p. 203, 1856).

696. *Emberiza affinis affinis* Heugl.

Emberiza affinis Heuglin, Journ. f. Ornith., p. 297, 1867 : Sennar, ex Prince Paul Wilhelm of Württemberg MS. (doubtful locality).

EASTERN SENNAR.

168. *Lissotis hartlaubii* (Heugl.).

Otis hartlaubii Heuglin, Journ. f. Ornith., p. 10, 1863 : eastern Sennar.

SENNAR-ABYSSINIAN BORDER.

424a. *Eremomela pusilla elegans* Heugl.

Eremomela elegans Heuglin, Journ. f. Ornith., p. 259, 1864 : Kollaland, *i.e.*, Abyssinia-Sennar border, ex *Ficedula elegans* Heuglin, Sitzb. Akad. Wien, p. 275, 1856 (nom. nud.).

BLUE NILE AT 13° N. LAT.

467a. *Cisticola erythrops nilotica* Madar.

Cisticola nilotica Madarász, Ann. Mus. Hung. xii, p. 591, 1904 : Blue Nile, at 13° N. Lat.

472b. *Cisticola ruficeps scotoptera* (Sund.).

Drymoica scotoptera Sundevall, Öfv. K. Sv. Vet.-Akad. Förh. vii, p. 129, 1850 : Sennar ; type in Stockholm Museum from Bahr el Azrak, 13° N. Lat.

JEBEL DUL.

162. *Neotis burchellii* (Heugl.).

Eupodotis burchellii Heuglin, Journ. f. Ornith., p. 301, 1867 : Jebel Dul, south of Sennar.

JEBEL FAZOGLI.

507. *Turdus libonyanus pelios* Bp.

Turdus pelios Bonaparte, Consp. Gen. Av. i, p. 273, 1850 : "Central Asia" ; Fazogli is suggested by Rensch.

614. Cinnyris venustus fazoglensis (Heugl.).

Nectarinia fazoglensis Heuglin, Orn. Nordost.-Afr. ii, pt. 2, p. lxx, 1871 : south of Fazogli Mt. (*vide t. c. vol. i, p. 233*).

642a. Sitagra badius badius (Cass.).

Hyphantornis badius Cassin, Proc. Acad. Nat. Sci. Phila. v, p. 57, 1850 : Fazogli, Blue Nile.

ROSEIRES.

566. Prionops concinnata Sundevall, Öfv. K. Sv. Vet.-Akad. Förh. vii, p. 130, 1850 : Roseires.

WELLED MEDINA.

414. Turdoides leucocephala leucocephala Cretzsch.

Turdoides leucocephala Cretzschmar, in Rüppell's Atlas zu der Reise, Vög. p. 6, pl. 4, 1826 : Welled Medina, Sennar.

KHARTOUM PROVINCE.

KHARTOUM.

71. Gyps rüppellii rüppellii (Brehm.).

Vultur rüppellii A. Brehm, Naumannia, heft 3, p. 44, 1852 : Khartoum.

111. Butastur rufipennis (Sund.).

Poliornis rufipennis Sundevall, Öfv. K. Sv. Vet.-Akad. Förh. for 1850, p. 131, 1851 : near Khartoum.

389b. Galerida cristata isabellina Bp.

Galerida isabellina Bonaparte, Consp. Av. i, p. 245, 1850 : "Nubia Ægyptiaca" ; Khartoum is suggested by Hartert.

WHITE NILE PROVINCE.

14. Ardea goliath Cretzschmar, in Rüpp. Atlas, p. 39, pl. 36, 1826 : Bahhar Abiad.

(*Aquila rapax raptor* Brehm—see under Blue Nile Prov.)

144a. Numida meleagris meleagris (Linn.).

Phasianus meleagris Linnæus, Syst. Nat., 10th ed., p. 158, 1758 : Africa (*i.e.*, Nubia, Upper Nile, ex Hasselquist).

158. *Balearica pavonina ceciliæ* Mitch.

Balearica ceciliæ Mitchell, Abstr. Proc. Zool. Soc. No. 10,
p. 13, 1904 : White Nile near Khartoum.

(*Streptopelia vinacea barbaru* Antin—see under Upper Nile
Prov.)

558b. *Phoneus senator niloticus* (Bp.).

Enneactonus niloticus Bonaparte, Rev. Zool., p. 439, 1853 :
White Nile.

GERAZI.

461. *Cisticola aridula aridula* With.

Cisticola aridula Witherby, Bull. Brit. Orn. Cl. xi, p. 13,
1900 : 60 miles south of Khartoum, *i.e.*, Gerazi, White
Nile.

GOZ ABU GUMA.

263. *Turtur abyssinicus delicatula* (Sharpe).

Chalcopepla delicatula Sharpe, Bull. Brit. Orn. Cl. xii, p. 84,
1902 : Goz Abu Guma.

317. *Phoeniculus purpureus niloticus* (Neum).

Irrisor erythrorhynchus niloticus Neumann, Orn. Monatsb.
xi, p. 181, 1903 : Goz Abu Guma.

KORDOFAN PROVINCE.

225b. *Burhinus capensis affinis* (Rüpp.).

Edicnemus affinis Rüppell, Mus. Sench. ii, p. 210, 1837 :
Kordofan**

(*Streptopelia vinacea barbaru* Antin—see under Upper
Nile Prov.)

***288. *Poicephalus meyeri meyeri* (Cretzsch.).**

Psittacus meyeri Cretzschmar, Atlas zu der Reise, p. 18,
pl. xi, 1826 : Kordofan.

309b. *Melittophagus pusillus ocularis* Reichenow, Orn. Monatsb.

viii, p. 86, 1900 : Nubia to Bahr el Ghazal ; type in Berlin
Museum from Kordofan.

**—It is rather questionable whether the types of this bird really came from Kordofan. According to Friedmann (Bull. 153, U.S. Nat. Mus., p. 184, 1930) the type specimens actually came from the Red Sea coast of Abyssinia or Eritrea.

362. **Trachyphonus darnaudii darnaudii** (Prév. & Des Murs).
Micropogon darnaudii Prévost et Des Murs, in Lefebvre,
 Abyss., p. 133, 1850 : Kordofan.
380. **Mirafraga cordofanica** Strickland, Proc. Zool. Soc. Lond. for
 1850, p. 218, pl. 23, 1852 : Kordofan.
- *385. **Pinarocorys erythropygia** (Strickl.).
Alauda erythropygia Strickland, Proc. Zool. Soc. Lond. for
 1850, p. 219, pl. 24, 1852 : Kordofan.
- *413a. **Turdoides plebeja plebeja** (Cretzsch.).
Ixos plebejus Cretzschmar, in Rüpp. Atlas zu der Reise,
 Vög. p. 35, pl. 23, 1826 : Kordofan.
- 419a. **Camaroptera brevicaudata brevicaudata** Cretzsch.
Sylvia brevicaudata Cretzschmar, Atlas zu der Reise, Vög.,
 p. 53, pl. 35, fig. b, 1831 : Kordofan.
422. **Phyllolais pulchella** (Cretzsch.).
Malurus pulchellus Cretzschmar, Atlas zu der Reise,
 Vög. p. 53, pl. 35, 1830 : Kordofan.
- 423a. **Sylvietta brachyura micrura** (Rüpp.).
Troglodytes micrurus Rüppell, N. Wirbelt. Vög., p. 109,
 pl. 41, fig. 2, 1840 : Kordofan.
 (*Calamornis neurensis* (Lynes)—see under Upper Nile Prov.)
- 472a. **Cisticola ruficeps ruficeps** (Cretzsch.).
Malurus ruficeps Cretzschmar, in Rüpp Atlas zu der
 Reise, Vög., p. 54, pl. 36a, 1830 : Kordofan.
513. **Bradornis pallidus pallidus** (Müll.).
Muscicapa pallida v. Müller, Naumannia, Hft. 4, p. 28, 1851 :
 Abyssinia and Kordofan ; Kordofan *apud* Rothschild.
621. **Plocepasser superciliosus superciliosus** (Cretzsch.).
Ploceus superciliosus Cretzschmar, in Rüpp Atlas, Vög.,
 p. 24, pl. 15, 1827 : Kordofan.

627a. *Passer iagoensis cordofanicus* Heugl.

Passer cordofanicus Heuglin, Orn. Nordost-Afr., Nachtr., p. cxli, 1871 : Kordofan (ex *P. motitensis* Heuglin, t. c. i, p. 634).

***668b. *Pytilia melba citerior* Strickl.**

Pytelia citerior Strickland, Contr. Ornith., p. 151, 1852 : Kordofan.

***695. *Emberiza flaviventris flavigastra* Cretzsch.**

Emberiza flavigastra Cretzschmar, in Rüpp. Atlas, Vög., p. 38, pl. 25, 1828 : Kordofan.

SOUTH KORDOFAN.

- 579. *Corvus capensis kordofanensis* Laubmann, Verh. Orn. Ges. Bayern, xiv, p. 103, 1919 : S. Kordofan (nom. nov. pro *C. minor* Heuglin, ex Schlegel nec Brehm).**

BARA.

425b. *Eremomela griseoflava alexanderi* ScL. & Praed.

Eremomela flaviventris alexanderi W. ScLATER & M.-PRAED, Ibis, p. 673, 1918 : Bara, Kordofan.

JEBEL MELBIS.

143a. *Ptilopachus petrosus brehmi* Neum.

Ptilopachus fuscus brehmi Neumann, Bull. Brit. Orn. Cl. xxi, p. 68, 1908 : Jebel Mepes (*i.e.*, probably Jebel Melbis).

NAHUD.

- 166. *Lophotis savilei* Lynes, Bull. Brit. Orn. Cl., xli, p. 51, 1920 : Nahud.**

OGAYEH WELLS.

391. *Eremalauda dunni* (Shell).

Calendula dunni Shelley, Bull. Brit. Orn. Cl., xiv, p. 82, 1904 : Ogageh Wells, Kordofan.

- 554b. *Rhodophoneus cruentus kordofanicus* W. ScLATER & M.-PRAED, Ibis, p. 633, 1918 : Ogayeh Wells, Kordofan.**

NUBA MOUNTAINS PROVINCE.

JEBEL RIHAL.

- 477b. *Tham nolæa coronata kordofanensis* Wettstein, Anz. Akad. Wien., liii, p. 135, 1916 : Gebel Rihal, Nuba Highlands, Kordofan.

KADUGLI.

- 689b. *Steganura aucupum kadugliensis* Bowen, Proc. Acad. Nat. Sci., Phila., lxxxiii, p. 230, 1931 : Kadugli.

DARFUR PROVINCE.

EL FASHER.

- 346b. *Micropus æquatorialis furensis* Lynes, Bull. Brit. Orn. Cl., xli, p. 34, 1920 : El Fasher.
474. *Myrmecocichla æthiops sudanensis* Lynes, Bull. Brit. Orn. Cl., xli, p. 18, 1920 : El Fasher.

JEBEL MARRA.

- 397b. *Anthus sordidus jebelmarræ* Lynes, Bull. Brit. Orn. Cl., xli, p. 16, 1920 : Jebel Marra.
- 485b. *Saxicola torquata jebelmarræ* Lynes, Bull. Brit. Orn. Cl., xli, p. 27, 1920 : Jebel Marra.
- 488b. *Cercomela scotocerca furensis* Lynes, Ibis, p. 391, 1926 : Jebel Marra, 7,300 ft.
- 560d. *Lanius excubitor jebelmarræ* Lynes, Bull. Brit. Orn. Cl. xliii, p. 94, 1923 : Jebel Marra, 7,900 ft.
- 701d. *Fringillaria striolata jebelmarræ* Lynes, Bull. Brit. Orn. Cl., xli, p. 34, 1920 : Jebel Marra.

JUGA JUGA.

383. *Mira fra rufa* Lynes, Bull. Brit. Orn. Cl., xli, p. 15, 1920 : Juga Juga, near El Fasher, 3,000 ft.

KULME.

- 382c. *Mira fra fischeri furensis* Lynes, Bull. Brit. Orn. Cl., xliii, p. 95, 1923 : Kulme.

KURRA

381. *Mira fra africana kurræ* Lynes, Bull. Brit. Orn. Cl., xliii, p. 95, 1923 : Kurra.

ZALINGEI.

- 468b. *Cisticola galactotes zalingei* Lynes, Ibis, Suppl., p. 390, 1930 :
Zalingei.
- 640b. *Sitagra tæniopterus furensis* (Lynes).
Ploceus tæniopterus furensis Lynes, Bull. Brit. Orn. Cl.,
xliii, p. 94, 1923 : Zalingei.

UPPER NILE PROVINCE.

- (*Ardea goliath* Cretzsch.—see under White Nile Prov.)
30. *Balæniceps rex* Gould, Proc. Zool. Soc. Lond., p. 1, pl. xxxv,
1851 : Upper White Nile.
(*Aquila rapax raptor* Brehm—see under White Nile Prov.)
- 258a. *Streptopelia vinacea barbaru* Antin.
Streptopelia barbaru Antinori, Cat. di Uccelli, p. 89, 1864 :
Sennar, Kordofan and White Nile.
282. *Turacus leucolophus* (Heugl.).
Corythaix leucolophus Heuglin, Journ. f. Ornith., p. 65,
1855 : Bahr el Abiad.
- 342b. *Scotornis climacurus nigricans* Salvadori, Atti. Soc. Ital.
Milano, xi, p. 449, 1868 : Fiume Bianco.
407. *Pycnonotus tricolor minor* Heugl.
Pycnonotus nigricans var. *minor* Heuglin, Orn. Nordost.
Afr., i, p. 398, 1869 : Bahr el Abiad.
(*Cichladusa guttata guttata* (Heugl.)—see under Mongalla
Prov.)
(*Cisticola chiniana simplex* (Heugl.)—see under Mongalla
Prov.)
466. *Cisticola cantans concolor* (Heugl.).
Drymæca concolor Heuglin, Ibis, p. 97, 1869 : Upper Nile.
563. *Lanius excubitorius excubitorius* Prév. & des Murs.
Lanius excubitorius Prévost & des Murs, in Lefebv. Voy.
Abyss., pp. 99, 170, pl. 8, 1847 : " Abyssinia and Nubia " ;
i.e., Upper Nile, where d'Arnaud travelled and collected
(see Neumann, Ibis, p. 506, 1927.)
(*Lanius senator niloticus* (Bp.)—see under White Nile Prov.)

668a. *Pytilia melba soudanensis* (Sharpe).

Zonogastris soudanensis Sharpe, Cat. Bds. Brit. Mus. xiii, p. 298, 1890: "Khartoum"; probably Upper Nile.

UPPER NILE, 10° N. Lat.

382b. *Mirafraga fischeri sobatensis* Lynes.

Mirafraga sobatensis Lynes, Bull. Brit. Orn. Cl., xxxiii, p. 129, 1914: White Nile, Lat. 10° N.

UPPER NILE, 5° to 10° N. Lat.

413b. *Turdoides plebeja cinerea* (Heugl.).

Crateropus cinereus Heuglin, Journ. f. Ornith., p. 300, 1862: Upper White Nile between 5° and 10° N. Lat.

IBAGO.

672a. *Estrilda astrild macmillani* O.-Grant.

Estrilda macmillani Ogilvie-Grant, Bull. Brit. Orn. Cl., xix, p. 108, 1907: Ibago, Baro River.

KAKA.

260b. *Stigmatopelia senegalensis sudanensis* W. Sclater & M.-Praed,
Ibis, p. 832, 1920: Kaka.

KODOK.

469a. *Cisticola natalensis tonga* Lynes, Ibis, Suppl., p. 448, 1930:
Kodok.

LAKE NO.

452. *Calamornis neurensis* (Lynes).

Calamocichla leptorhyncha nuerensis Lynes, Bull. Brit. Orn. Cl., xxxiii, p. 130, 1914: Lake No.

RENK.

161b. *Choriotis arabs butleri* Bannerman, Ibis, p. 433, 1930: Renk,
White Nile.

252. *Nyctiperdix quadricinctus lowei* (Grant).

Pterocles quadricinctus lowei C. Grant, Bull. Brit. Orn. Cl., xxxv, p. 19, 1914: Renk, White Nile.

SOBAT RIVER.

656. *Urobrachya axillaris phoenicea* (Heugl.).

Coliuspasser phoeniceus Heuglin, Journ. f. Ornith., p. 304, 1862 : Sobat River, Sudan.

BAHR-EL-GHAZAL PROVINCE.

(*Balæniceps rex* Gould—see under Upper Nile Prov.)

(*Melittophagus pusillus ocularis* Reichw.—see under Kordofan Prov.)

(*Turdoides plebeja cinerea* (Heugl.)—see under Upper Nile Prov.)

(*Calamornis nuerensis* (Lynes)—see under Upper Nile Prov.)

(*Cisticola galactotes marginata* (Heugl.)—see under Mongalla Prov.)

(*Eurocephalus rueppelli rueppelli* Bp.—see under Mongalla Prov.)

(*Lanius excubitorius excubitorius* Prév. & des Murs—see under Upper Nile Prov.)

(*Dryoscopus gambensis malzacii* (Heugl.)—see under Mongalla Prov.)

669. *Lagonosticta rara rara* (Antin.).

Habropyga rara Antinori, Cat. Ucelli, p. 72, 1864 : between White Nile and Ghazal River.

BONGO RIVER.

134. *Francolinus coqui schlegelii* Heugl.

Francolinus schlegelii Heuglin, Journ. f. Ornith., p. 275, 1863 : Bongo River.

136a. *Francolinus icterorhynchus icterorhynchus* Heugl.

Francolinus icterorhynchus Heuglin, Journ. f. Ornith., p. 275, 1863 : Bongo River.

311. *Dirocereus hirundineus heuglini* Neumann, Bull. Brit. Orn.

Cl. xvi, p. 113, 1906 : Bongo.

(*Campethera punctuligera balia* (Heugl.)—see under Jur R.)

390a. *Heliocorys modesta modesta* (Heugl.).

Galerida modesta Heuglin, Journ. f. Ornith., p. 74, 1864 :
Bongo, Bahr el Ghazal.

458. *Heliolais erythroptera jodoptera* (Heugl.).

Drymoeca jodoptera Heuglin, Journ. f. Ornith., p. 258,
1864 : Bongo, Bahr el Ghazal.

550. *Malaconotus poliocephalus catharoxanthus* Neum.

Malaconotus catharoxanthus Neumann, Journ. f. Ornith.,
p. 391, 1899 : Bongo, Bahr el Ghazal.

571. *Anthoscopus parvulus parvulus* (Heugl.).

Ægithalus parvulus Heuglin, Jour. f. Ornith., p. 260, 1864 :
Bongo, Bahr el Ghazal.

BUVAL.

**143b. *Ptilopachus petrosus butleri* W. Selater & M.-Praed, Ibis,
p. 842, 1920 : Buval, near Wau, Bahr el Ghazal.**

GHAZAL RIVER.

462. *Cisticola eximia eximia* Heugl.

Cisticola eximia Heuglin, Ibis, p. 106, pl. 3, fig. 3, 1869 :
Gazelle River.

638. *Sitagra heuglini heuglini* (Reichw.).

Ploceus heuglini Reichenow, Zool. Jahrb., i, p. 147, 1886 :
Gazelle River.

676. *Estrilda paludicola paludicola* Heugl.

Estrilda paludicola Heuglin, Journ. f. Ornith., p. 166,
1863 : middle course of Bahr el Ghazal.

JUR RIVER.

368. *Campethera punctuligera balia* (Heugl.).

Picus balius Heuglin, Orn. N. O.-Afr., i, p. 810, 1871 :
Djur and Bongo rivers.

424b. *Eremomela pusilla canescens* Antin.

Eremomela canescens Antinori, Cat. Coll. Ucc., p. 38, 1864 :
Djur River, Bahr el Ghazal.

677. Estrilda nigricollis nigricollis (Heugl.).

Lagonosticta nigricollis Heuglin, Journ. f. Ornith., p. 273, 1863 : " Djur-Neger " country, i.e., Djur River, Bahr el Ghazal.

JUR.

464. Cisticola lateralis antinorii (Heugl.).

Drymoica antinorii Heuglin, Ibis, p. 102, 1869 : Djur, Bahr el Ghazal.

471a. Cisticola troglodytes troglodytes (Antin.).

Drymoica troglodytes Antinori, Cat. Descr. Ucc., p. 38, March, 1864 : Djur, Bahr el Ghazal.

525. Erannornis longicauda teresita (Antin.).

Elminia teresita Antinori, Cat. Descr. Ucc., p. 50, 1864 : Djur, Bahr el Ghazal.

608b. Chalecomitra senegalensis acik (Hartm.).

Nectarinia acik Hartmann (ex Antinori MS.), Journ. f. Ornith., p. 205, 1866 : Djur, Bahr el Ghazal.

671. Lagonosticta rufopieta lateritia Heugl.

Lagonosticta (Estrellda) lateritia Heuglin, Journ. f. Ornith., p. 262, 1864 : Djur, Bahr el Ghazal.

691a. Serinus mozambicus barbatus (Heugl.).

Crithagra barbata Heuglin, Jour. f. Ornith., p. 248, 1864 : Djur, Bahr el Ghazal.

KUDURMA.

415. Turdoides tenebrosa tenebrosa (Hartl.).

Crateropus tenebrosus Hartlaub, Journ. f. Ornith., p. 425, 1883 : Kudurma, S.E. Bahr el Ghazal.

679. Estrilda nonnula nonnula Hartl.

Astrilda nonnula Hartlaub, Journ. f. Ornith., p. 425, 1883 : Kudurma, Bahr el Ghazal.

MESHRA EL REK.

137b. Francolinus clappertoni heuglini Neumann, Orn. Monatsb., p. 199, 1907 : Meshra el Rek.

WAU.

469b. *Cisticola natalensis valida* (Heugl.).

Drymæca valida Heuglin, Journ. f. Ornith., p. 258, 1864 :
Wau, Bahr el Ghazal.

***479. *Cossypha semirufa heuglini* Hartl.**

Cossypha heuglini Hartlaub, Journ. f. Ornith., p. 36, 1866 :
“ Keren ” ; *errore pro* Wau, Bahr el Ghazal (*vide* Heuglin,
Orn.-Nordost-Afr., i, p. 375).

510a. *Alseonax aquaticus aquaticus* (Heugl.).

Muscicapa aquatica Heuglin, Journ. f. Ornith., p. 256, 1864 :
Wau, Bahr el Ghazal.

MONGALLA PROVINCE.

(*Balæniceps rex* Gould—see under Upper Nile Prov.)

186. *Hemiparra crassirostris crassirostris* (Hartl.).

Chettusia crassirostris Hartlaub, Journ. f. Ornith., p. 472,
1855 : Nubia (*i.e.*, probably Mongalla Province).

***359. *Tricholæma diadematum diadematum* (Heugl.).**

Læmodon diadematum Heuglin, S.B. Akad. Wien., p. 299
(nom. nud.), 1856.

Pogonorhynchus diadematus Heuglin, Ibis, pp. 124, 126,
pl. v, 1861 : Steppes of the Kitch-Negroes (*i.e.*, Mongalla
Prov.).

(*Turdoides plebeja cinerea* (Heugl.)—see under Upper Nile
Prov.)

***463. *Cisticola chiniana simplex* (Heugl.).**

Drymæca simplex Heuglin, Ibis, p. 105, 1869 : country of
the Kidj negroes, Upper White Nile.

(*Lanius excubitorius excubitorius* Prév. & des Murs—see
under Upper Nile Prov.)

642b. *Sitagra badius axillaris* (Heugl.).

Hyphantornis axillaris Heuglin, Journ. f. Ornith., p. 381,
1867 : district of the “ Kidj-neger.”

AGARU.

635. Othyphantes emini emini (Hartl.).

Sycobrotus emini Hartlaub, Orn. Centralbl., p. 92, 1882 :
Agaru, east of Nimule (see Journ. f. Ornith., p. 322, 1882).

BAHR EL JEBEL.

***123a. Melierax metabates metabates** Heugl.

Melierax metabates Heuglin, Ibis, p. 78, 1861 : White Nile
between 6° and 7° N. Lat.

319. Rhinopomastus minor cabanisi (Defil.).

Irrisor cabanisi Defilippi, Rev. Mag. Zool., p. 289, 1853 :
White Nile, 3° and 4° N. Lat.

***354. Erythrobucco rolleti** (Defil.).

Pogonias rolleti Defilippi, Rev. Mag. Zool., p. 290, 1853 :
Upper White Nile.

***357. Lybius leucocephalus leucocephalus** (Defil.).

Laimodon leucocephalus Defilippi, Rev. Mag. Zool., p. 291,
1853 : White Nile, between 3° and 4° N. Lat.

***478. Cichladusa guttata guttata** (Heugl.).

Crateropus guttatus Heuglin, Journ. f. Ornith., p. 300,
1862 : Bahr el Abiad.

468a. Cisticola galactotes marginata (Heugl.).

Drymæca marginata Heuglin, Ibis, p. 94, pl. I, fig. 1, 1869 :
Upper Nile between 6° and 9° N. Lat.

567. Eurocephalus rueppelli rueppelli Bp.

Eurocephalus rueppelli Bonaparte, Rev. Mag. Zool., p. 440,
1853 ; White Nile.

575. Oriolus monacha rolleti Salvad.

Oriolus rolleti Salvadori, Atti Acad. Torino, vii, p. 151,
1864 : Lat. 7° N. on White Nile.

***593. Lamprocolius purpureus amethystinus** (Heugl.).

Lamprotornis amethystinus Heuglin, Journ. f. Ornith.,
p. 21, 1863 : Bahr el Abiad.

***616. Nectarinia erythroceria erythroceria Hartl.**

Nectarinia erythroceria Hartlaub, Syst. Orn. West Afr., p. 270, 1857 : no loc. ; White Nile, south of 8° N. Lat. (see Heuglin, S.B. Akad. Wiss. Wien, xix, p. 272, 1856).

***622. Pseudonigrita arnaudi arnaudi (Bp.).**

Nigrita arnaudi Bonaparte, Consp. Gen. Av., i, p. 444, 1850 : White Nile.

634. Amblyospiza albifrons melanota (Heugl.).

Coryphegnathus melanotus Heuglin, Journ. f. Ornith., p. 21, 1863 : Bahr el Abiad.

BARBIRA.

377. Jynx pulchricollis Hartlaub, Ibis, p. 28, pl. iii, 1884 : Barbira, White Nile.

FADIBEK.

459. Melocichla mentalis amaouroura (Pelz.).

Argya amaouroura Pelzeln, Verh. Zool.-Bot. Ges. Wien, xxxii, p. 503, 1883 : Fadibek, Upper Nile.

GONDOKORO.

90. Polhierax semitorquatus castanotus (Heugl.).

Hypotriorchis castanotus Heuglin, Ibis, p. 407, 1860 : Méré Belenia, *i.e.*, near Gondokoro.

216. Rhinoptilus cinctus cinctus (Heugl.).

Hemerodromus cinctus Heuglin, Ibis, p. 31, pl. 1, 1863 : Gondokoro.

LADO.

***569. Anthoscopus musculus (Hartl.).**

Ægithalus musculus Hartlaub, Orn. Centralb., p. 91, 1882 : Lado ; see Journ. f. Ornith., p. 326, 1882.

602b. Anthreptes longuemarei orientalis Hartl.

Anthreptes orientalis Hartlaub, Journ. f. Ornith., p. 213, 1880 : Lado, Upper Nile.

627b. *Passer iagoensis shelleyi* Sharpe.

Passer shelleyi Sharpe, Ibis, p. 256, 1891 : Lado.

633. *Sorella eminibey eminibey* Hartl.

Sorella eminibey Hartlaub, Journ. f. Ornith., pp. 211, 325 :
Lado, Upper Nile.

649. *Quelea cardinalis* (Hartl.).

Hyphantica cardinalis Hartlaub, Journ. f. Ornith., p. 325,
1880 : Lado.

655. *Euplectes taha ladoensis* Reichw.

Euplectes ladoensis Reichenow, Journ. f. Ornith., p. 218,
1885 : Lado.

***666a. *Pytilia phœnicoptera emini* Hartert, Nov. Zool., vi, p. 413,
1899 : Lado.**

MALEK.

**472c. *Cisticola ruficeps mongalla* Lynes, Ibis, Suppl., p. 541, 1930 :
Malek, Mongalla Prov.**

REJAF.

**511. *Empidonis semipartitus orleansi* Rothschild, Bull. Brit. Orn.
Cl., xliii, p. 45, 1922 : Rejaf.**

TARRANGULE.

***Trachyphonus erythrocephalus versicolor* Hartlaub, Orn. Centralb.,
p. 91, 1882 : Central Africa, *i.e.*, Tarrangule, now in Mongalla
Prov., east of the Nile at Gondokoro ; see Journ. f. Ornith.,
p. 327, 1882.**

WAKKALA.

144b. *Numida meleagris major* Hartl.

Numida ptilorhyncha var. *major* Hartlaub, Abhandl.
Bremen, 1882, pp. 216, 217, 1883 : Wakkala, in the Bari
country, near Gondokoro.

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