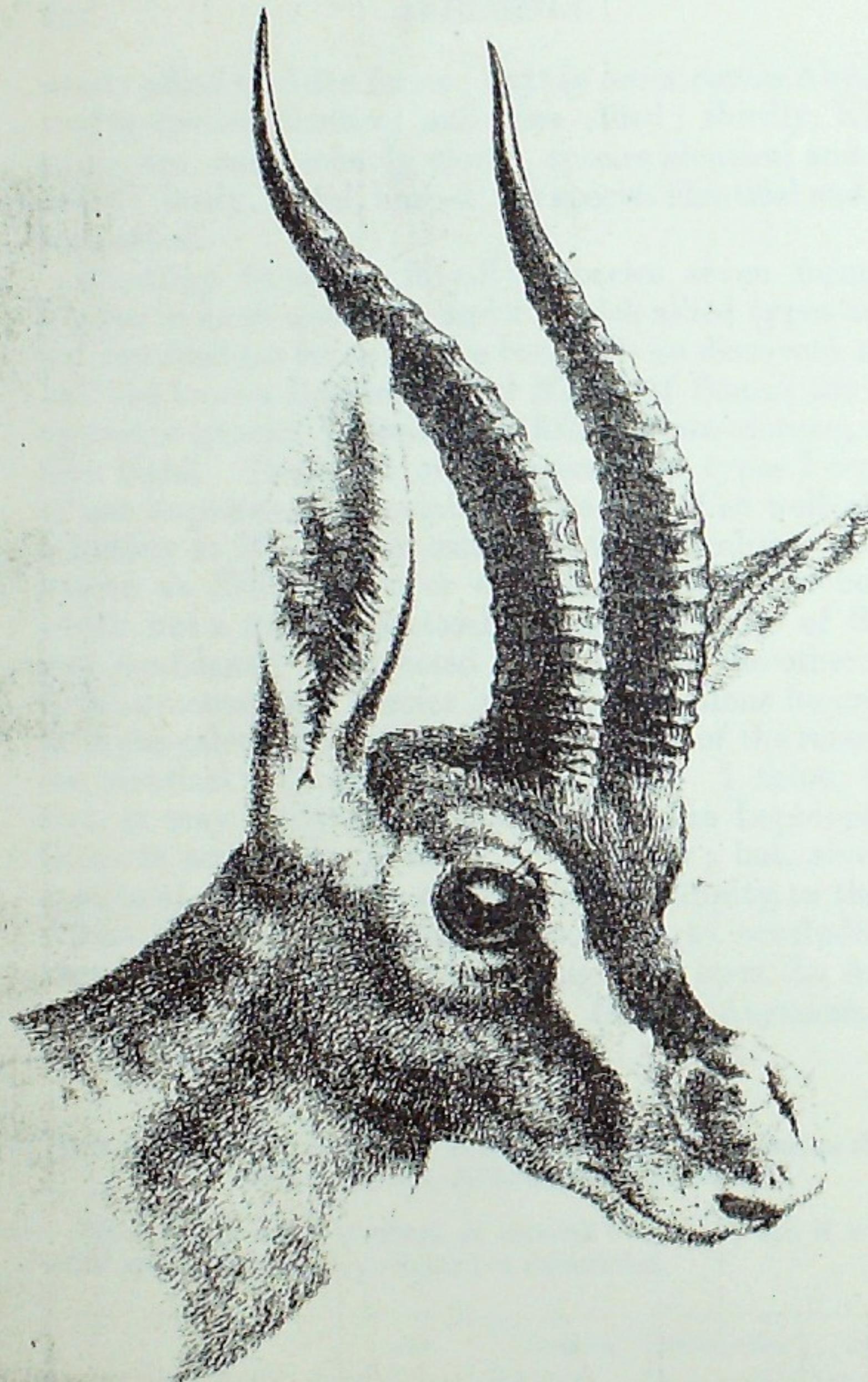


2627
 1 - APPENDICE - Tavola LEPIDOTERI C/NON U
 2 - VOLUME N° 61 F 051
 3 - APPENDICE - PIRANTE = C/NON U

COLLOCAZIONE
 Sella: 3
 cassaforte: 3
 Palchettone: 8
 N. 2

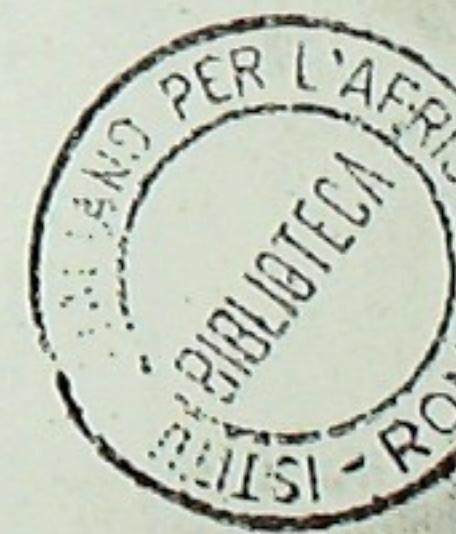


Hansard Imp.

GAZELLA NASO.

LONDON:
 GEORGE PHILIP & SON, 32 FLEET STREET;
 LIVERPOOL: 45 TO 51 SOUTH CASTLE STREET.
 1888.

THE MAP BY W. D. JAMES AND PERCY AYLMER.
 THE NARRATIVE ILLUSTRATIONS BY ROSE HAKE, AND THE DRAWINGS
 OF THE FAUNA BY K. KEULEMAN, FROM SPECIMENS CHIEFLY
 COLLECTED BY E. LORT-PHILLIPS.



nearly allied to Aden forms ; next in order comes Abyssinia, twelve species identical and nine allied ; thirdly, Kilimanjaro, ten, and probably eleven, species identical and three allied ; lastly, Natal, nine or ten species identical and fourteen allied.

Omitting from the fifty-five species seven forms not known to exist elsewhere and to which allied types are not yet recorded (so far as I have been able to discover), nearly half the known Butterflies and Moths of Somali are Aden species, a quarter Abyssinian, a fifth Kilimanjaroan, and a fifth Natal. The allied or representative types I consider of less importance, especially in the case of so well-worked a locality as Natal when compared with localities so little known as Kilimanjaro or even Abyssinia, from both of which not a few types closely related to those of Somali may confidently be expected to come. On the other hand, if the nineteen new species in these collections be omitted from our calculations, nearly four-sevenths of the remainder are identical with species found in Aden. I think, therefore, it may fairly be concluded that the Lepidopterous fauna is essentially Arabian in character ; but, since the species of Arabia have a much closer affinity to those of Africa than Asia, it seems reasonable to conclude that they have for the most part immigrated from the African coast, and originated in Egypt, Nubia, Abyssinia, and Somali-land.

TABLE showing the relationship of the Lepidoptera of Somali to those of Aden, Abyssinia, Kilimanjaro, and Natal.

When the species is identical, an asterisk * is used ; but if a closely allied species replaces it, a dagger † is substituted.

	Aden.	Abyssinia.	Kilimanjaro.	Natal.
<i>Limnas dorippus</i> .	*			
— <i>klugii</i> .	*	*	*	
<i>Ypthima asterope</i> .	*	†		
<i>Neocenya duplex</i> .			*	
<i>Precis limnoria</i>	*	*	

TABLE showing the relationship of the Lepidoptera of Somali to those of Aden, Abyssinia, Kilimanjaro, and Natal—continued.

	Aden.	Abyssinia.	Kilimanjaro.	Natal.
<i>Junonia crebreni</i> .	*	*	*	*
<i>Hypanis ilithyia</i> .	*	*	*
— <i>castanea</i> .	*	*?	+
<i>Hamanumida dædalus</i>	*	*	
<i>Acræa chilo</i>	*	
<i>Acræa brœsiæ</i>	*	
<i>Acræa mirabilis</i>	*	
<i>Polyommatus bæticus</i> .	*	*	*	*
<i>Catochrysops asopus</i> .	*	*
— <i>naidina</i>	
— <i>fumosa</i>	+
— <i>lois</i>	
<i>Azanus zena</i> .	*	†	*
— <i>jesous</i>	*	*
<i>Tarucus pulcher</i> .	*	
— <i>sybaris</i>	*	
— <i>theophrastus</i>	*	
<i>Castalius lactinatus</i>	†	
<i>Hyreus linguis</i>	+
<i>Spindasis somalina</i>	+
<i>Chloroselas esmeralda</i>	
<i>Hypolycæna umbrosa</i>	
<i>Iolaus glaucus</i>	*
<i>Terias zoe</i>	*	
<i>Teracolus dynamene</i> .	*	+
— <i>ocellatus</i> .	†	†	*
— <i>chrysonome</i>	*	
— <i>protomedia</i> .	*	*	
— <i>heliocaustus</i> .	†	+
— <i>præclarus</i>	†	
— <i>eupompe</i> .	*	†	
— <i>dedecora</i>	+
— <i>complexivus</i>	+
— <i>thruppii</i> .	†	+
— <i>jamesii</i>	†
— <i>phillipsii</i>	†	†
— <i>nouna</i> .	*	
<i>Catopsilia hyblæa</i>	
— <i>aleurona</i>	*	
<i>Belenois lordaca</i>	†	+
<i>Synchloë distorta</i>	+	+
<i>Herpænia melanarge</i>	†	+
<i>Nepheronia arabica</i>	†	+
<i>Hesperia anchises</i> .	*	*?	
<i>Cyclopides cheles</i>	+
<i>Carterocephalus calicles</i>	+
<i>Thanaos djælæla</i> .	*	*	*
<i>Eusemia thruppii</i>	†
<i>Saturnia oubie</i>	*	
<i>Heliothis peltigera</i>	*?

interesting notes on its habits contributed to the Society by Mr. Lort-Phillips (*supra*, p. 611).

EXPLANATION OF PLATE IV.

- Fig. 1. *Heterocephalus phillipsi*; female, natural size.
 2. Palate-ridges.
 3. Fore and hind feet, showing sole-pads and fringing bristles. Twice natural size.
 4. Skull. Twice natural size.
 5. Skull of *H. glaber*. Twice natural size.

A COLLECTION OF BIRDS FROM SOMALI-LAND.

*Described by CAPTAIN G. E. SHELLEY, F.Z.S.**

Mr. E. Lort-Phillips, F.Z.S., accompanied by his friends, Messrs. James, Aylmer, and Thrupp, left Berbera, on the Gulf of Aden, on the 22nd December 1884, and returned there again towards the middle of the following April. They journeyed nearly due south along the parallel 45° E. long. to about 5° N. lat. On leaving Berbera they crossed for the first eight miles a low, flat country, and then ascended to the high plateau land, 3000 feet above the sea. This plateau is a parched desert for about six months in the year, and it was during this period that most of the specimens were collected. The Egyptian Vulture, although a constant visitor to their camp so long as water was obtainable, was never seen during their long desert march of fourteen days between the wells of Burao and Gerloguby, while Crows (probably *Corvus affinis*) never failed to appear in the neighbourhood as soon as the tents were pitched. Nearly all the Crows' nests contained eggs of the Great Spotted Cuckoo, and in one nest there were twelve eggs, four only belonging to the rightful owner.

The tableland, which extends from north to south for

* Reprinted with permission from the "Ibis."

about 280 miles, is dotted over with thousands of gigantic ant-hills, which often rise to a height of thirty feet or more; and these, during their return journey, in the latter end of March and beginning of April, afforded building resorts for many species of birds, especially Little Owls and Parrots.

When the rains set in the country soon presents a very different aspect; the plateau becomes quickly covered with fine grass, and the mimosas, which during the dry season resemble gooseberry bushes in winter, become a mass of tender green leaves and yellow blossoms, which prove very attractive to the gaily coloured Sun-birds.

Wherever rock appears upon the surface, the rain-water collects and forms shallow lakes, commonly called pans, which are soon tenanted by water-fowl. At Harradigit, one of these pans, there were some hundreds of Egyptian Geese, evidently mated, as they were grazing in pairs; at first they were very easy to approach, but soon became shy, and watched the country from the tops of the ant-hills or the boughs of the higher trees. The highest trees always grow near these pans, and are selected by *Textor dinemelli* for their nests.

To the south of the plateau runs the Webbe Shebeyli, or Haynes river, through a fertile plain on which the natives grow an abundance of corn; and here, amongst the numerous water-birds, the Sacred Ibis was remarked as being extremely abundant.

An excellent account of this journey was read by Mr. F. L. James, before the Royal Geographical Society, on the 29th of June of the present year.

The collection of birds contains specimens of sixty-two species, of which I consider to be new to science six species and one subspecies. These are:—*Coracias lorti*, *Dryoscopus ruficeps*, *Telephonus jamesi*, *Argya aylmeri*, *Saxicola phillipsi*, *Parus thruppi*, and the subspecies, *Cursorius gallicus somalensis*. Of the remainder, over forty are new to Somali-land.

As the specimens are mostly in good condition, I have

considered it advisable to give full descriptions of some of the most interesting. Mr. Lort-Phillips has kindly furnished me with some field notes.

At Mr. Lort-Phillips's request I have named a species after each of his companions; and I am sure all ornithologists will agree that they justly deserve this mark of our appreciation of the great service they have rendered to our science.

1. MELIERAX GABAR.

Le Gabar, Levaill. Ois. d'Afr. i. 1799, pl. 33.

Falco gabar, Daud. Traité, 1800, p. 87.

Nisus gabar, Heugl. Orn. N.O.-Afr. pp. 73, xxviii.; Finsch & Hartl. Vög. Ostafri. p. 86; Hartl. Abh. nat. Ver. Brem. vii. 1881, p. 116 (Lado); Fischer, J. f. O. 1855, p. 121.

Melierax gabar, Sharpe, Cat. B. Brit. Mus. i. p. 89.

Micronisus gabar, Salvad. Ann. Mus. Civ. Gen. 1884, p. 72 (Shoa).

Hab. Africa, generally south of about 25° N. lat., except the West Coast from Sierra Leone to Angola.

"Fairly plentiful."

2. BUTEO AUGUR.

Buteo augur, Rüpp. Neue Wirb. 1835-40, p. 38, pl. 16, figs. 1, 2 (good); Heugl. Orn. N.O.-Afr. pp. 92, xxxv.; Finsch & Hartl. Vög. Ostafri. p. 57; Sharpe, Cat. B. Brit. Mus. i. p. 175; Fischer, J. f. O. 1885, p. 122 (Mombas).

Buteo hydrophilus, Rüpp. tom. cit. p. 39, pl. 17, figs. 1, 2 (good).

Pterolestes augur, Salvad. Ann. Mus. Civ. Gen. 1884, p. 51 (Shoa).

Hab. E. Africa, between about 15° N. lat. and 4° S. lat.

"Only a single specimen was met with in the mountains about thirty miles inland from Berbera."

3. POLIOHIERAX SEMITORQUATUS.

Falco semitorquatus, Smith, Rep. Exp. Centr. Afr. 1836, p. 44; id. Ill. Zool. S. Afr., Av. pl. 1, ♂ (good); Heugl. Orn. N.O.-Afr. p. 38, pl. 1, ♂ juv. (back chestnut, as in ♀ ad.).

Hypotriorchis castanonotus, Heugl. Ibis, 1860, p. 407; Selat. Ibis, 1861, pl. 12 (good, ♀ ad.).

Hypotriorchis semitorquatus, Selat. P. Z. S. 1864, p. 107 (Bogue).

Poliohierax semitorquatus, Sharpe, Cat. B. Brit. Mus. i. p. 370; Salvad. Ann. Mus. Civ. Gen. 1884, p. 63 (Shoa); Fischer, J. f. O. 1885, p. 122 (Tana river).

Hab. E. and S. Africa, from Abyssinia to the Transvaal, and thence to Damara.

"Frequently seen perched on the tops of the low mimosa-bushes on the plateau. In March a pair appeared to be preparing to breed in a deserted nest of *Textor dinemelli*, in the midst of a colony of those Weaver-birds. The crops of the three specimens preserved contained lizards."

4. TINNUNCULUS TINNUNCULUS.

Falco tinnunculus, Linn. S. N. 1766, p. 127; Heugl. Orn. N.O.-Afr. pp. 40, xvi.; Dresser, B. Eur. vi. pl. 384.

Cerchneis tinnunculus, Sharpe, Cat. B. Brit. Mus. i. p. 425.

Tinnunculus alaudarius, Salvad. Ann. Mus. Civ. Gen. 1884, p. 64 (Shoa).

Hab. Africa, south to about 5° N. lat. in E. Africa, and 10° N. lat. in W. Africa.

5. BUBO LACTEUS.

Strix lacteus, Temm. Pl. Col. ii. pl. 4.

Bubo lacteus, Heugl. Orn. N.O.-Afr. pp. 112, xlvi.; Finsch & Hartl. Vög. Ostafri. p. 101; Sharpe, Cat. B. Brit. Mus. ii. p. 33; Fischer, J. f. O. 1885, p. 122.

Hab. Africa, south of about 15° N. lat., with the exception of the forest-region of the West Coast.
"Shot in February near Faf, in the Ogadayn district."

6. CARINE GLAUX.

Noctua glaux, Savign. Descr. Egypte, Ois. p. 287.
Noctua veterum, Heugl. Orn. N.O.-Afr. pp. 118, xlvi.
Carine glaux, Sharpe, Cat. B. Brit. Mus. ii. p. 135.
Athene glaux, Dresser, B. Eur. v. pl. 318.

Hab. N. and N.E. Africa southward to Somali.

The single specimen is peculiarly small.

"Fairly common throughout the country, living in holes in the ant-hills."

7. PÆOCEPHALUS RUFIVENTRIS.

Pionus rufiventris, Rüpp. Syst. Uebers. 1845, p. 83, pl. 32 (Shoa).

Pionias rufiventris, Heugl. Orn. N.O.-Afr. pp. 741, clvii.

Pæocephalus rufiventris, Speke, Ibis, 1860, p. 243 (Somali); Fischer, Zeitschr. ges. Orn. 1884, p. 372 (Masai); Salvad. Ann. Mus. Civ. Gen. 1884, p. 78 (Shoa); Fischer, J. f. O. 1885, p. 122.

Hab. E. Africa, from Abyssinia to Masai-land.

"First seen on reaching the tableland, and afterwards fairly plentiful throughout the tour. They were generally seen in twos or threes, and, like most parrots, were very noisy. They breed in the ant-hills."

8. DENDROPICUS HEMPRICHI.

Picus hemprichii, Hemp. & Ehr. Symb. Phys. 1828, fol. 2, p. 2; Heugl. Orn. N.O.-Afr. p. 804; Finsch. & Hartl. Vög. Ostafri. p. 514; Shallow, J. f. O. 1883, p. 347 (Kakoma).

Dendrobates hemprichii, Rüpp. Syst. Uebers. pl. 35.

Dendromus hemprichii, Speke, Ibis, 1860, p. 245 (Somali).

Dendropicus hemprichi, Hargitt, Ibis, 1883, p. 433; Fischer, Zeitschr. ges. Orn. 1884, p. 370 (Masai); id. J. f. O. 1885, p. 125.

Hab. E. Africa, from Abyssinia to Zanzibar.

The specimen from South Mozambique referred to as *Dendrobates hemprichii*, Bianc. Spec. Zool. Mosamb. fasc. 18, p. 327, was preserved in spirits, and its determination, I consider, must consequently be uncertain.

This and the next species of Woodpecker were fairly plentiful where the Euphorbias grew, as they select these cactuses to breed in.

9. CAMPOTHERA NUBICA.

Picus nubicus, Gm. S. N. i. 1788, p. 439; Heugl. Orn. N.O.-Afr. p. 881; Finsch & Hartl. Vög. Ostafri. p. 508; Hartl. Abh. nat. Ver. Brem. vii. 1881, p. 109 (Lado).

Dendromus aethiopicus, Rüpp. Syst. Uebers. pl. 36.

Dendrobates aethiopicus, Speke, Ibis, 1860, p. 244 (Somali).

Campothera nubica, Hargitt, Ibis, 1883, p. 451; Fischer, J. f. O. 1885, p. 126 (Pangani).

Stictopicus nubicus, Salvad. Ann. Mus. Civ. Gen. 1884, p. 88 (Shoa).

Hab. E. Africa, from Southern Nubia to Pangani.

10. TRICHLÆMA STIGMATOTHORAX.

Tricholæma stigmatothorax, Cab. J. f. O. 1878, pp. 205, 240 (Ndi); Fischer, Zeitschr. ges. Orn. 1884, p. 371 (Masai); id. J. f. O. 1885, p. 125.

Hab. E. Africa, between 10° N. lat. and 5° S. lat.

T. stigmatothorax is very nearly allied to *T. melanoccephala*, from which it differs in the dark portions of the head and throat being dark brown instead of black, in the feathers of the forehead and front half of the crown being more or less spotted with small yellow tips to the feathers.

In a specimen labelled "Ronga (*Fischer*)" the brown of the throat is uniform; in the present specimen, from Somali, the feathers of the throat have mostly small white tips.

"Fairly abundant throughout the tableland."

11. TRACHYPHONUS ERYTHROCEPHALUS. (Plate IX.)

Trachyphonus erythrocephalus, Cab. J. f. O. 1878, pp. 206, 218, 240, pl. 2, figs. 1, 2 (Kitui).

Hab. E. Africa, Somali and Kitui.

I have not been able to examine the type of *T. erythrocephalus*. The Somali specimen differs from the illustrations *l. c.* in having a distinct black crest, the eyebrows yellow, and the cheeks washed with yellow towards the eyes. It is also apparently rather smaller: total length 7.1 inches, culmen 0.9, wing 3.1, tail 3.1, tarsus 0.95. Forehead and crown glossy black, the feathers elongated, forming a slight crest; margin of the forehead, eyebrows, and remainder of the head and neck yellow, shading into bright red on the nape, ear-coverts, and hinder portions of the cheeks; a red band passes down the sides of the neck, and is surmounted by a white band, which extends over the back of the ear-coverts; the feathers of the nape and back of the neck are tipped with black; throat yellow, with a broad black band down the centre, chin fading into buff, base of the throat tinted with red; a narrow pectoral band, back, and wings black, with large pearl-shaped buffish-white spots; similar spots on the quills form four partial white bands; rump yellow; upper and under tail-coverts crimson; tail black, each feather with five or six large yellowish-white spots, passing into bars towards the outer feathers; remainder of the body buffish-yellow, with the axillaries and under wing-coverts brownish white.

"Shot on the plateau. On another occasion three rose out of a dry well, where they were probably hunting for insects. Iris brown, bill brownish red, feet black."

12. HALCYON SEMICÆRULEA.

Alcedo semicærulea, Forsk. Descr. An. 1775, p. 2.

Dacelo semicærulea, Heugl. Orn. N.O.-Afr. p. 190.

Halcyon semicærulea, Sharpe, Monogr. Alced. p. 173, pl. 64; Finsch & Hartl. Vög. Ostafri. p. 160; Hartl. Abh. nat. Ver. Brem. vii. 1881, p. 110 (Lado); Salvad. Ann. Mus. Civ. Gen. 1884, p. 113 (Shoa); Fischer, J. f. O. 1885, p. 126.

Hab. The whole of Africa between about 17° N. lat. and 25° S. lat.

"These birds are never found far from water, and are apparently very plentiful at all seasons on the Webbe Shebeyli, south of the plateau, and were also met with in the low country near Berbera. They only visit the table-land during the rainy season."

13. IRRISOR ERYTHRORHYNCHUS.

Upupa erythrorynchos, Lath. Ind. Orn. i. 1790, p. 280.

Falcinellus senegalensis, Vieill. N. D. xxviii. p. 168.

Promerops melanorhynchus (Licht.), Gray & Mitchell, Gen. B. i. pl. 31 (good).

Irrisor senegalensis, Speke, Ibis, 1860, p. 244 (Somali).

Irrisor erythrorynchus, Heugl. Orn. N.O.-Afr. p. 214; Finsch & Hartl. Vög. Ostafri. p. 202; Salvad. Ann. Mus. Civ. Gen. 1884, p. 106 (Shoa); Fischer, J. f. O. 1885, p. 127.

Hab. The whole of Africa south of about 16° N. lat.

The present specimens (an apparently adult and an immature bird) have the bill black; and Mr. Lort-Phillips assures me that, although the bird is common in Somali, he never saw a red-billed specimen.

They belong to the dark-billed race, well figured by Gray and Mitchell, *l. c.* This race inhabits Somali, Shoa, Abyssinia, and Senegambia, and to it belong the nine specimens recorded by Count Salvadori as collected by the Marquis Antinori in Shoa, seven specimens in the British Museum from Abyssinia, and nine specimens I have examined from Senegambia.

To the typical red-billed race belong thirty-seven specimens I have examined from localities south of the equator; of these, twenty-three S.-African, and seven E.-African from Dar-es-Salem to Mombas, have entirely red bills, and the remaining seven have black bills, but show evident signs of immaturity.

My reason for not separating these races rests upon the following data:—There are two typical red-billed specimens in the British Museum, labelled respectively "Darfur" and "N.E. Africa." One of Mr. Blanford's specimens from the Anseba valley has the bill half red and half black; the black in this specimen extends on the upper mandible in a sharply defined broad band from the nostrils, and covers the end third of both mandibles. Von Heuglin describes in his large work an entirely red-billed bird, which I presume was a N.E. African specimen.

In the British Museum there is a remarkably purple-coloured specimen, labelled "♂, Objimbique." It has a reddish-black bill. These colours, however, are not sharply contrasted as in all the mottled-billed birds I have seen from north of the equator:

In the black-billed race the plumage is almost invariably more purple, the presence of a bright green gloss on the crown and mantle being rare, although occasionally present, but never, it appears to me, to the same extent as in the typical red-billed specimens.

Although generally the northern and southern forms may be easily distinguished, their characters are not always very sharply defined nor very constant; and as the typical red-billed form occurs in Darfur, their ranges overlap in the White Nile region, and we may presume they would interbreed.

14. IRRISOR MINOR.

Promerops minor, Rüpp. Syst. Uebers. 1845, pp. 25, 28.

Epimachus minor, Rüpp. tom. cit. pl. 8.

Irrisor minor, Speke, Ibis, 1860, p. 244 (Somali); Heugl. Orn. N.O.-Afr. p. 218; Finsch & Hartl. Vög.

Ostafr. p. 206; Oustalet in Revoil's Faune et Flore, Comalis, Ois. 1882, p. 7.

Hab. N.E. Africa, Shoa and Somali.

In the present specimen the white bar on the wing crosses the inner webs of the second to the seventh primaries, and there is a white spot on the outer webs of the seventh and eighth primaries.

I would here correct an error with regard to *Rhinopomastes cabanisi*, P. Z. S. 1882, p. 306. The sentence should read thus:—"This species is closely allied to *R. minor*, but may be readily distinguished by the absence of any white on the primaries."

15. UPUPA EPOPS SENECALENSIS.

Upupa senegalensis, Swains. B. W. Afr. ii. 1837, p. 114; Finsch. & Hartl. Vög. Ostafr. p. 199, note; Salvad. Ann. Mus. Civ. Gen. 1884, p. 105 (Shoa).

Hab. N.E. and W. Africa: Abyssinia, Shoa, Somali, and Senegambia. I am unable to define exactly what may be the full range of this subspecies.

The two specimens brought home from Somali agree perfectly with a specimen from Senegambia in my own collection. They are smaller than the true *U. epops*, but in other respects similar, with a similar white band across the primaries.

"Common everywhere."

16. MEROPS NUBICUS.

Merops nubicus, Gm. S. N. 1788, p. 464; Heugl. Orn. N.O.-Afr. p. 199; Finsch & Hartl. Vög. Ostafr. p. 183; Hartl. Abh. nat. Ver. Brem. vii. 1881, p. 111 (Lado); Salvad. Ann. Mus. Civ. Gen. 1884, p. 92 (Shoa); Fischer, J. f. O. 1885, p. 127 (Lamu).

Hab. E. and W. Africa, south from about 16° N. lat. to Zanzibar on the east coast and to Bissao on the west.

"Fairly plentiful on the Webbe Shebeyli, generally in flocks."

17. MELITTOPHAGUS PUSILLUS CYANOSTICTUS.

Merops pusillus, P. L. S. Müll. S. N. Suppl. 1776, p. 95.

Merops erythropterus, "Gm.", Heugl. Orn. N.O.-Afr. p. 208; Hartl. Abh. nat. Ver. Brem. vii. 1881, p. 111 (Lado).

Merops variegatus, "Vieill.", Finsch & Hartl. Vög. Ostaf. p. 193.

Merops cyanostictus, Cab. in v. d. Decken's Reise Ostaf. iii. 1869, p. 34; Salvad. Ann. Mus. Civ. Gen. 1884, p. 110 (Shoa); Bohm. J. f. O. 1885, p. 47.

Melittophagus pusillus, Shelley, P. Z. S. 1881, p. 569.

Melittophagus cyanostictus, Fischer, J. f. O. 1885, p. 127.

Hab. E. and S. Africa, from Abyssinia to Pangani.

South from Pangani and in Benguela the specimens are nearly intermediate between this subspecies and the common South-African form, and the common South-African form is again intermediate between these latter specimens and those of West Africa, which are entirely without the blue frontal and superciliary band. In the colouring of the head and throat the present subspecies much resembles *M. lafresnayei*, but is smaller.

"Apparently not common; only seen along the water-courses. Iris red, bill and feet black."

18. MELITTOPHAGUS REVOILL.

Merops revoilii, Oustalet in Revoil's Faune et Flor. Comalis, Ois. 1882, p. 5, pl. 1 (bad).

Hab. Confined to Somali-land.

Crown grass-green, with paler shaft-stripes, which are tinted with cobalt-blue towards their ends; sides of the forehead and a broad eyebrow cobalt-blue; ear-coverts and a broad loral band through the eye black; back of neck and front of back rufous-buff, with the ends of the feathers washed with bluish green; lower half of the back and

upper tail-coverts cobalt-blue; scapulars and wings green, shading into brown on the inner webs and tips of the quills, which have their shafts also brown; tail green, partially washed with blue, and with an ill-defined rufous terminal edging to all but the four centre feathers; cheeks, chin, and upper throat white, shading on the remainder of the throat and breast into deep rufous-buff, slightly glossed with green; vent and under tail-coverts bright cobalt-blue; under wing-coverts and inner margins to the quills rufous-buff; remainder of the quills and under surface of the tail ashy brown; bill and legs black. Total length 6.2 and 6.7 inches, culmen 1.1, wing 2.9 and 3.1, tail 2.9, tarsus 0.4.

"Common on the plateau."

19. CORACIAS NÆVIA.

Coracias nævia, Daud. Traité, ii. 1800, p. 258 (Senegal); Sharpe, Ibis, 1871, p. 190, part.; Salvad. Ann. Mus. Civ. Gen. 1884, p. 114 (Shoa).

Hab. E. and W. Africa: Abyssinia, Upper White Nile, Somali, Senegambia, and Bissao.

Coracias pilosa, Heugl. Orn. N.O.-Afr. p. 173.

The two specimens in this collection have the crown pink, not shaded with olive, and thus differ somewhat from the South-African bird, which should, I think, be recognised as a subspecies under the title of *C. nævia levaillanti*.

"First seen about twenty miles south of Berbera, and was afterwards fairly plentiful, generally near water."

20. CORACIAS LORTI, sp. n.

Very similar in size and plumage to *C. caudata*; but differs in the lower half of the throat and entire chest being green, of the same colour as the abdomen, the pink of the throat not extending beyond the line of the end of the ear-coverts. Total length 13.2 inches, culmen 1.3, wing 6.3, tail 7, tarsus 1.

Hab. Somali-land.

"Seen only on two or three occasions on the plateau
Iris brown, bill black, legs grey."

21. CENTROPUS SUPERCILIOSUS.

Centropus superciliosus, Hempr. & Ehr. Symb. Phys. 1828, fol. 2; Rüpp. Neue Wirb. pl. 21, fig. 1; Heugl. Orn. N.O.-Afr. p. 797; Sharpe, P. Z. S. 1873, p. 620; Shelley, P. Z. S. 1881, p. 595; Salvad. Ann. Mus. Civ. Gen. 1884, p. 96 (Shoa); Bohm. J. f. O. 1885, p. 41; Fischer, tom. cit. p. 123.

Hab. E. Africa, between about 16° N. lat. and 8° S. lat.

"Only found frequenting the thick bushes and grass
near the watercourses."

22. SCHIZORHIS LEUCOGASTER.

Schizorhis leucogaster, Rüpp. P. Z. S. 1842, p. 9; id. Trans. Z. S. iii. pl. 17 (good).

Schizorhis leucogaster, Speke, Ibis, 1860, p. 245 (Somali); Heugl. Orn. N.O.-Afr. p. 707; Finch & Hartl. Vög. Ostafri. p. 477; Hartl. Abh. nat. Ver. Brem. viii. 1882, p. 210; Fischer, Zeitschr. ges. Orn. 1884, p. 364 (Masai); Salvad. Ann. Mus. Civ. Gen. 1884, p. 99 (Shoa); Fischer, J. f. O. 1885, p. 122 (Usaramo).

Hab. E. Africa, between about 12° N. lat. and 5° S. lat.

"Very common throughout the country. Feeds on the
berries of the nebbuk thorn, and the cry exactly resembles
the bleat of a goat. Bill and legs black."

23. TERPSIPHONE CRISTATA.

Muscicapa cristata, Gm. S. N. i. 1788, p. 938.

Muscicapa duchaillui, Cass. Journ. Philad. iv. pl. 50.

Muscicapa speciosa, Cass. Journ. Philad. iv. pl. 50.

Terpsiphone melanogastra, Heugl. Orn. N.O.-Afr. p. 441; Finsch & Hartl. Vög. Ostafri. p. 309.

Terpsiphone cristata, Sharpe, Cat. B. Brit. Mus. iv. p.

354; Salvad. Ann. Mus. Civ. Gen. 1884, p. 124 (Shoa); Shelley, P. Z. S. 1881, p. 577.

Terpsiphone ferretili, Zeitschr. ges. Orn. 1884, p. 353 (Masai).

Hab. E. and W. Africa, between about 16° N. lat. and 6° S. lat.

"Frequents the shade of the high trees which grow along
the watercourses. Male—iris, bill, and feet slaty-blue;
female—iris red, bill and feet black."

24. BUCHANGA ASSIMILIS.

Corvus assimilis, Bechst. Lath. Allg. Uebers. Vög. ii. p. 562.

Edolius lugubris, Hempr. & Ehr. Symb. Phys. 1828, pl. 8, fig. 3.

Dicrurus lugubris, Speke, Ibis, 1860, p. 247 (Somali).

Dicrurus divaricatus, Heugl. Orn. N.O.-Afr. p. 422; Finsch & Hartl. Vög. Ostafri. p. 323; Fischer, J. f. O. 1885, p. 131.

Buchanga assimilis, Sharpe, Cat. B. Brit. Mus. iii. p. 247.

Hab. The whole of Africa south of about 16° N. lat.

"Common throughout the country. Iris red, bill and
legs black."

25. LANIUS DORSALIS.

Lanius (Fiscus) dorsalis, Cab. J. f. O. 1878, pp. 205, 225 (Ndi).

Lanius dorsalis, Oustalet in Revoil's Faun. et Flor. Comalis, Ois. p. 10.

Hab. E. Africa, Somali to Ndi.

Upper half of the head and hinder half of the neck
black; back and scapulars grey, fading into white towards
the ends of the scapulars and on the tail-coverts; tail,
four centre feathers entirely black, the remainder black
with broad white ends and an entirely white outer web to

the outer pair of feathers; underparts white; axillaries black; under wing-coverts white, with a large dusky patch; quills black, with about the basal half of the primaries white; a dark rufous patch on the sides of the chest (a sexual character only); iris brown; bill and legs black. Total length 8.2 inches, culmen 0.65, wing 3.75, tail 3.6, tarsus 1.1.

This species is nearly allied to *L. antinorii*, Salvad., from which it differs in the scapulars being grey, not white; the secondaries entirely black, not tipped with white; a less amount of white on the two pair of outer tail-feathers; the axillaries being black, not white; and it is also slightly smaller. This comparison is taken from Mr. Gadow's description of the type of *L. antinorii* (Cat. B. Brit. Mus. viii. p. 255). The present species has been overlooked in that volume.

"Only met with on the tableland, where they appeared to be fairly plentiful. Female—iris brown, bill and legs black."

26. DRYOSCOPUS RUFICEPS, sp. n. (Plate V. fig. 1.)

Forehead and sides of the crown black; crown and nape very bright rufous; a broad white eyebrow extends over the sides of the forehead to behind the ear-coverts; lores, cheeks, ear-coverts, and sides of the neck black; remainder of the upper parts black, partially washed with grey towards the neck and lower back; a broad white longitudinal band down the wing, formed by the greater portion of the median series of wing-coverts and the broad white edges to about three of the middle secondaries; the lower back is strongly mottled with white; outer web of the tail broadly edged with white, and the three pairs of outer tail-feathers have broad white tips; entire underparts white, very faintly tinted with rufous on the flanks and thighs; under wing-coverts white, with the outer ones near the edge of the wing black, and a large dusky patch; under surface of the quills black, broadly edged with white on their inner webs towards their base; iris brown; bill

black; legs dark grey. Total length 7 inches, culmen 0.7, wing 3, tail 3.4, tarsus 1.15.

Hab. Somali-land.

"Shot on the 2nd of January and seen on a few occasions afterwards. Iris brown, bill black, feet grey."

27. LANIARIUS CRUENTUS.

Lanius cruentus, Hempr. & Ehr. Symb. Phys. 1828, fol. c, pl. 3.

Laniarius cruentus, Speke, Ibis, 1860, p. 247 (Somali); Finsch & Hartl. Vög. Ostafri. p. 354; Gadow, Cat. B. Brit. Mus. viii. p. 152.

Dryoscopus cruentus, Heugl. Orn. N.O.-Afr. p. 462.

Hab. E. Africa, from about 15° N. lat. to Somali-land.

"Rather scarce: only seen on the plateau. Male—iris brown, bill black, legs grey."

28. TELEPHONUS JAMESI, sp. n. (Plate V. fig. 2.)

Upper parts brownish ash; a broad black band down the centre of the forehead, crown, and nape; a black band from the lores through the eye to over the ear-coverts; sides of the forehead and crown fading almost into white, forming an indistinct eyebrow; wing-coverts and broad outer edges to the quills chestnut, a few of the outer wing-coverts ashy brown, externally margined with white; edges of the wing white, remainder of the quills dark brown; tail, two centre feathers brownish ash obsoletely barred, remainder black, with broad white ends, broadest towards the outer pair of feathers, which have also the greater portion of the end half of the outer web white; cheeks, throat, abdomen, and under tail-coverts white, shading into pale brownish ash on the ear-coverts, chest, and flanks; under wing-coverts whitish ash; under surface of the quills ashy brown. Total length 7 inches, culmen 0.65, wing 2.65, tail 3.5, tarsus 0.9

Hab. Somali-land.

"Only met with on two occasions on the plateau. Iris brown, with five beautiful white spots round the pupil; bill black; feet grey."

29. PRIONOPS POLIOCEPHALUS.

Lanius poliocephalus, Stanley in Salt's Trav. Abyss. 1814, App. p. 50.

Prionops cristatus, Rüpp. Neue Wirb. pl. 12. fig. 2.

Prionops poliocephalus, Sclat. P. Z. S. 1864, p. 109 (Usui); Heugl. Orn. N.O.-Afr. p. 454; Sharpe, Cat. B. Brit. Mus. iii. p. 231; Salvad. Ann. Mus. Civ. Gen. 1884, p. 120 (Shoa).

Hab. E. Africa, from about 15° N. lat. to Usui in 3° S. lat.

"Met with on three occasions in flocks on the tableland. Iris and eye-wattles yellow, bill black, legs red."

30. EUROCEPHALUS RUEPPELLI.

Eurocephalus anguitimens, Rüpp. (nec Smith), Syst. Uebers. 1845, p. 53, pl. 27.

Eurocephalus rueppelli, Bp. Rev. et Mag. Zool. 1853, B. 440; Heugl. Orn. N.O.-Afr. p. 487; Sharpe, Cat. B. Brit. Mus. iii. p. 280; Hartl. Abh. nat. Ver. Brem. vii. 1881, p. 97; Shelley, P. Z. S. 1882, p. 307; Shallow, J. f. O. 1883, p. 357; Fischer, Zeitschr. ges. Orn. 1884, p. 350 (Masai); id. J. f. O. 1885, p. 130 (Barawa).

Hab. E. Africa, from about 15° N. lat. to 7° S. lat.

"Common, but shy, singly or in pairs, frequenting the topmost boughs of trees. Iris brown; bill and legs black."

31. ARGYA AYLMERI, sp. n. (Plate VI. fig. 1.)

Upper parts uniform ashy brown, shading into deep rufous-brown on the crown and forehead; nape and sides of the head slightly more rufous than the back, and fading into buff in front of the eyes; chin and throat buff with ashy-brown bases to the feathers, giving a somewhat scaled

appearance to these parts; remainder of the underparts more rufous buff, washed on the flanks, thighs, and under tail-coverts with ashy brown, under wing-coverts and partial inner margins to the quills rich rufous-buff, remainder of the quills ashy brown; bill brownish yellow; legs brownish flesh-colour. Total length 8.4 inches, culmen 0.7, wing 2.8, tail 4.8, tarsus 1.

Hab. Somali-land.

"Probably plentiful, but difficult to see, as they frequent the thick bushes and grass. They are very active, and constantly utter a cry somewhat resembling that of a mouse."

32. MONTICOLA RUFOCINEREA.

Saxicola rufocinerea, Rüpp. Neue Wirb. Vög. 1835-40, p. 76, pl. 27.

Thamnolæa rufocinerea, Heugl. Orn. N.O.-Afr. p. 369.

Monticola rufocinerea, Seeböhm, Cat. B. Brit. Mus. v. p. 327; Fischer, Zeitschr. ges. Orn. 1884, p. 302 (Masai); Salvad. Ann. Mus. Civ. Gen. 1884, p. 160 (Shoa); Fischer, J. f. O. 1885, p. 142 (Maiwascha in 0° 30' S. lat.).

Hab. E. Africa, Abyssinia southward to Somali and Masai-land.

"Common about the mountains near Berbera. In their actions they much remind one of the Robin."

33. SAXICOLA PHILLIPSI, sp. n. (Plate VII.)

Crown, back of the neck, upper back, and scapulars ashy grey; forehead and a broad eyebrow white; the wing-coverts paler grey than the back and with dark shafts; the spurious wing and the quills black, with broad white partial edges to a few of the secondaries; rump, upper tail-coverts and a large portion of the tail white; remainder of the tail black; two centre feathers black, with the base white, the white diverging up the feathers for about one-third of their length; the black on the remaining feathers forms a partial subterminal band and passes down their

outer webs next to the shafts in a very acute angle for about two-thirds of the length of the feathers, and is broadest on the outer feather, where it reaches to the margin for two-thirds of its length; cheeks, ear-coverts, chin, throat, front of the chest, axillaries, and under wing-coverts black; remainder of the body and under tail-coverts white; under surface of the quills dusky with a silver gloss; bill and legs black. Total length 5 inches, culmen 0.5, wing 3.3, tail 2, tarsus 1.05.

The most marked characters for this species may be shortly summed up by comparing it with the figure of *S. seebohmi*, Ibis, 1882, pl. 14. In the present species the black of the throat descends much lower, on to the front of the chest; the wing-coverts, with the exception of the spurious wing, are pale grey or ashy white; the tail-feathers, with the exception of the centre pair, are tipped with white, and two-thirds of the outer web of the tail is black; the thighs are white.

Hab. Somali-land.

"Shot on the 29th of December on the summit of the mountains near Berbera, and not observed elsewhere."

34. SAXICOLA DESERTI.

Saxicola deserti, Temm. Pl. Col. 1825, pl. 359, fig. 2; Heugl. Orn. N.O.-Afr. p. 352; Seeböhm, Cat. B. Brit. Mus. v. p. 383; Dresser, B. Eur. ii. p. 215, pl. 27.

Hab. N. and N.E. Africa as far south as Somali-land.

"Common throughout the plateau."

35. SAXICOLA ISABELLINA.

Saxicola isabellina, Rüpp. Atlas, 1826, p. 52, pl. 34. fig. b; Speke, Ibis, 1860, p. 247 (Somali-land); Heugl. Orn. N.O.-Afr. p. 344; Dresser, B. Eur. ii. p. 199, pl. 22; Seeböhm, Cat. B. Brit. Mus. v. p. 399; Fischer, Zeitschr. ges. Orn. 1884, p. 305 (Masai); Salvad. Ann. Mus. Civ. Gen. 1884, p. 164 (Shoa).

Hab. N.E. Africa, from the Mediterranean to Somali and Masai-land.

"Very common."

36. ERYTHROPYGIA LEUCOPTERA.

Salicaria leucoptera, Rüpp. Syst. Uebers. 1845, p. 38, pl. 15.

Ædon leucoptera, Heugl. Orn. N.O.-Afr. p. 279; Cab. J. f. O. 1878, p. 221 (Ndi); Schalow, J. f. O. 1883, p. 366 (Merumi); Salvad. Ann. Mus. Civ. Gen. 1884, p. 136 (Shoa).

Erythropygia leucoptera, Sharpe, Cat. B. Brit. Mus. vii. p. 79; Fischer, Zeitschr. ges. Orn. 1884, p. 308.

Hab. E. Africa, between about 15° N. lat. and 7° S. lat.

"Common amongst the low bushes."

37. CINNYRIS HABESSINICUS.

Nectarinia habessinica, Hempr. & Ehr. Symb. Phys. 1828, pl. 4; Speke, Ibis, 1860, p. 247 (Somali-land); Heugl. Orn. N.O.-Afr. p. 229; Finsch. & Hartl. Vög. Ostafri. p. 221; Oustalet, in Revoil's Faun. et Flore Comalis, Ois. 1882, p. 8.

Cinnyris habessinicus, Shelley, Monogr. Nect. p. 205, pl. 63; Salvad. Ann. Mus. Civ. Gen. 1884, p. 139 (Shoa).

Hab. E. Africa, between about 16° N. lat. and 7° N. lat., from Kordofan to Somali-land.

"Very common amongst the mimosa trees throughout the country. The only other Sunbird seen was *C. albiventris*, which was also fairly abundant, but not so common as the present species."

38. PARUS THRUPPI, sp. n. (Plate VI. fig. 2.)

Forehead, lores, cheeks, ear-coverts, and back of the neck white; crown, sides of the neck, throat, and centre of the breast glossy black; chin mottled with white; back, scapulars, and least series of wing-coverts ashy-grey;

remainder of the wing black, with broad white edges to the feathers, these edges broadest on the median and greater wing-coverts and the inner secondaries; upper tail-coverts and tail black, with white margins to some of the centre feathers, and narrow white tips to the remainder; breast, thighs, and under tail-coverts sandy buff, shading into ashy grey on the sides of the body; under surface of the quills brown, with partial pale inner margins; under wing-coverts white, bill black, legs slate-colour. Male and female similar in plumage. Total length 4.65 and 4.3 inches, culmen 0.4, wings 2.45, tail 2 and 1.9, tarsi 0.7.

The nearest ally of this species is apparently *P. afer*, from which it differs in its smaller size, white frontal band, white mottling on the chin, and in the colour of the breast, thighs, and under tail-coverts.

Hab. Somali-land.

"Only met with on one occasion, near the centre of the plateau, where they were in a small party of about six. Iris brown, bill black, feet greyish black."

39. MIRAFRA CORDOFANICA (?).

Mirafra cordofanica, Strickl. P. Z. S. 1850, p. 218, pl. 23 (Kordofan).

Geocoraphus cordofanicus, Heugl. Orn. N.O.-Afr. p. 687.

Above cinnamon with dark shaft-stripes; sides of the forehead and eyebrows buff; edges of the wing-coverts and of the primaries slightly paler; inner webs of the quills dark brown, broadly edged towards their base with cinnamon; upper tail-coverts slightly browner than the back; tail-feathers dark brown, the centre pair broadly edged and washed with cinnamon; the next four pairs are narrowly edged, but more broadly tipped with rufous-buff; the outer pair have nearly their whole outer webs and broad ends buff; cheeks buff, shading into cinnamon on the ear-coverts; underparts buff, fading into white towards the chin, and passing into cinnamon on the sides of the chest;

the feathers of the lores and crop have a few dark triangular terminal shaft-spots; under wing-coverts and basal inner margins to the quills deep rufous-buff; remainder of the quills brown, with narrow rufous-buff outer margins; bill horn-colour, passing into flesh-colour on the greater portion of the lower mandible; legs flesh-colour. Total length 5.6 inches, culmen 0.5, wing 3.2, tail 2.1, tarsus 0.9.

Hab. Kordofan, Somali-land, and Damara.

Although I refer the present species to *M. cordofanica*, it differs from the type, mostly in its darker colouring and in the absence of pale borders to the wing-coverts, which I regard as possibly due to season. It agrees well with a specimen in the British Museum, labelled "*M. africanaoides*, ♂, 12/6/66, Objimbinque (Andersson), no. 78. 10. 26. 350."

"Only met with on a few occasions, near the centre of the plateau. It perches on the topmost boughs of the trees, which it leaves with a quivering flight, like our Wood Lark, pouring forth a peculiarly sweet song."

40. GYMNORHIS PYRGITA.

Xanthodina pyrgita, Heugl. J. f. O. 1862, p. 30; id. Orn. N.O.-Afr. p. 627, pl. 21, fig. 2 (head); Fischer, Zeitschr. ges. Orn. 1884, p. 321 (Masai).

Gymnorhis pyrgita, Heugl. Orn. N.O.-Afr. App. p. cxl.

Hab. E. Africa, from about 15° N. lat. to 4° S. lat.

"I only observed on one occasion a small flock of these Finches near the centre of the plateau. Iris brown, bill purple, feet black."

41. URÆGINTHUS IANTHINOGASTER.

Uræginthus ianthinogaster, Reichen. Orn. Centralbl. 1879, p. 120 (Masai); Reichen. & Schalow, J. f. O. 1879, p. 326; Fischer & Reichen. tom. cit. p. 353, pl. 2, figs. 1, 2; Fischer, Zeitschr. ges. Orn. 1884, p. 324; id. J. f. O. 1885, p. 135 (Barawa, Massa, and Little Arucha).

Hab. E. Africa, Somali-land to Masai-land.

Head and neck cinnamon; sides of the forehead and cheeks ultramarine-blue; mantle and wings brown, washed with cinnamon towards the edges of the feathers; rump and upper tail-coverts ultramarine-blue; tail brownish black; breast and under tail-coverts ultramarine-blue, mottled on the front and sides of the chest with cinnamon, and thus the blue of the throat is detached into a collar; iris and bill red; legs black. Total length 4.8 inches, culmen 0.5, wing 2.15, tail 2.4, tarsus 0.6.

The specimen before me is not in very good condition, but I have described it because the figure of this species (J. f. O. 1879, pl. 2, fig. 1) is very misleading. The collar in the Somali specimen is broader than in the illustration, and lower down, being only separated from the blue of the breast by two or three feathers, and all the blue parts are uniform in colour and ultramarine. The original description is fair.

"Not uncommon in small flocks throughout the table-land. Iris red, bill coral-red, feet black."

42. PYROMELANA FRANCISCANA.

Loxia franciscana, Isert, Schrift. Gesell. Nat. Freunde Berlin, ix. 1789, p. 332, pl. 9.

Fringilla ignicolor, Hempr. & Ehr. Symb. Phys. 1828, pl. 2.

Euplectes petiti, Kirk, Ibis, 1864, p. 322 (Zambesi and Shiré valley).

Euplectes ignicolor, Sclat. P. Z. S. 1864, p. 109 (Unyoro).

Euplectes franciscanus, Heugl. Orn. N.O.-Afr. p. 571; Hartl. Abh. nat. Ver. Brem. vii. 1881, p. 103 (Lado); Salvad. Ann. Mus. Civ. Gen. 1884, p. 184 (Shoa).

Pyromelana franciscana, Finsch & Hartl. Vög. Ostafri. p. 412.

Hab. E. and W. Africa: E. Africa from the Second Cataract of the Nile, 22° N. lat., to Unyoro 1° N. lat., and

also from the Shiré valley; in W. Africa from the Gold Coast to Senegambia.

"Only plentiful on the Webbe Shebeyli in the cornfields, where it frequently assembles in large flocks of from fifty to one hundred."

43. TEXTOR DINEMELLI.

Textor cinemelli, Horsf. in Rüpp. Syst. Uebers. 1845, pp. 72, 76, pl. 30; Gray & Mitchell, Gen. B. ii. pl. 87; Sclat. P. Z. S. 1864, p. 109 (Unyamuezi); Heugl. Orn. N.O.-Afr. p. 534; Finsch & Hartl. Vög. Ostafri. p. 386; Shelley, P. Z. S. 1882, p. 307; Schalow, J. f. O. 1883; p. 361; Fischer, Zeitschr. ges. Orn. 1884, p. 333 (Masai); Salvad. Ann. Mus. Civ. Gen. 1884, p. 194 (Shoa); Fischer, J. f. O. 1885, p. 132.

Hab. E. Africa, between 12° N. lat. and 7° S. lat.

"These birds are fairly common throughout the country, frequenting the mimosa trees. They are very noisy when on the wing, and breed in colonies. Their eggs are green, thickly speckled with dark brown, and 0.95 inch long. In one of these colonies a pair of the small Hawk, *Poliohierax semitorquatus*, had usurped a nest, but were regarded apparently as welcome visitors by these sociable Weavers."

44. TEXTOR INTERMEDIUS.

Textor intermedius, Cab. v. d. Decken's Reis. iii. 1869, p. 33, pl. ii.; Finsch & Hartl. Vög. Ostafri. p. 385; Fischer, Zeitsehr. ges. Orn. 1884, p. 333 (Masai).

Hab. E. Africa, between about 10° N. lat. and 4° S. lat.

"Very plentiful in flocks near Faf in the interior of the plateau, which in the rainy season becomes a lake. In March they were busily building colonies of nests in the higher trees. In habits they much remind one of Starlings, especially when feeding in flocks on the ground."

Iris brown, feet black; ♂ bill red, ♀ bill dark brown

45. BUPHAGA ERYTHRORHYNCHA.

Tanagra erythrorhyncha, Stanley in Salt's Trav. Abyss. 1814, App. p. 58.

Buphaga habessinica, Hempr. & Ehr. Symb. Phys. pl. 9.

Buphaga erythrorhyncha, Speke, Ibis, 1860, p. 246 (Somali); Heugl. Orn. N.O.-Afr. p. 716; Finsch & Hartl. Vög. Ostafri. p. 384; Fischer, Zeitschr. ges. Orn. 1884, p. 334 (Masai); Salvad. Ann. Mus. Civ. Gen. 1884, p. 196 (Shoa); Fischer, J. f. O. 1885, p. 132.

Hab. The whole of Africa south of about 16° N. lat.

"Common throughout the country. Iris and eye-wattles yellow, bill coral-red, feet brown."

46. COSMOPSARUS REGIUS.

Cosmopsarus regius, Reichen. Orn. Centralbl. 1879, p. 120 (Masai); Fischer, J. f. O. 1879, p. 299; Reichen. & Schalow, tom. cit. p. 324; Fischer & Reichen. tom. cit. p. 349, pl. 1, fig. 1; Fischer, Zeitschr. ges. Orn. 1884, p. 336; id. J. f. O. 1885, p. 132 (Massa and Pare).

Head and neck deep metallic green, shading into blue on the ear-coverts and into bluish violet on the back, wings, and crop; median and greater series of wing-coverts with black terminal spots, more or less marked on each feather; tail bronze, obsoletely barred and glossed with violet and blue towards its base and on portion of the inner webs of all but the centre feathers; the outer tail-feathers occasionally marked near their shafts and edges with buff; breast, thighs, under tail-coverts, and inner under wing-coverts rich golden yellow; remainder of the under wing-coverts metallic greenish blue; under surface of the quills and tail black; bill and legs black. Total length 12.3 to 13.3 inches, culmen 0.7, wing 4.7 to 5.25, tail 7 to 9, tarsus 1.15 to 1.3.

Hab. E. Africa, between about 10° N. lat. and 4° S. lat.

"Fairly abundant in small flocks throughout the plateau, where they frequent the ground and low bushes. Iris white, bill and legs black."

47. PHOLIDAUGES BICOLOR.

Speculipastor bicolor, Reichen. Orn. Centralbl. 1879, p. 120 (Kipini); Fischer, J. f. O. 1879, pp. 281, 300; Reichen. & Schalow, tom. cit. p. 234; Fischer & Reichen. tom. cit. p. 349, pl. 1, figs. 2, 3; Fischer, J. f. O. 1885, p. 132 (Kipini and Wapokomo-land).

Upper parts and entire head and neck glossy black, with about the basal third of the primaries white; breast, under tail-coverts, and under wing-coverts creamy white, with the outermost under wing-coverts and the bastard primary black; bill and legs black. Total length 7.1 inches, culmen 0.6, wing 4.6, tail 3.4, tarsus 1.1.

Hab. E. Africa, between about 10° N. lat. and 2° 30' S. lat., from Somali-land to the Tana river.

"Only met with in flocks on two or three occasions. They were very shy, and flew at a considerable height, frequently uttering their peculiar cry, which consists of a single whistling note. Native name 'Shimber Arnot' (Sheep-bird). They are said to be common in the Gudabirsi country to the west."

48. NOTAUGES SUPERBUS.

Lamprotornis superba, Rüpp. Syst. Uebers. 1845, pp. 65, 75, pl. 26 (Shoa).

Notauges superbus, Speke, Ibis, 1860, p. 245 (Somali); Heugl. Orn. N.O.-Afr. p. 517; Shelley, P. Z. S. 1881, p. 583 (Ugogo and Dar-es-Salaam); Hartl. Abh. nat. Ver. Brem. vii. p. 106 (Lado); Schalow, J. f. O. 1883, p. 360; Fischer, Zeitschr. ges. Orn. 1884, p. 335 (Masai); Salvad. Ann. Mus. Civ. Gen. 1884, p. 199; Fischer, J. f. O. 1885, p. 132.

Hab. E. Africa, from about 10° N. lat. to 7° S. lat.

"Very common throughout the country in flocks. They were breeding in March. Their nests are constructed of grass, and are nearly spherical, with a hole at the side, the whole structure covered over with thorny boughs, after the

fashion of a Magpie's nest: they are placed near the ends of the boughs. Native name 'Shimber Lo' (Cow-bird). Iris white, bill and legs black."

49. NOTAUGES HILDEBRANDTI.

Notauges hildebrandti, Cab. J. f. O. 1878, pp. 205, 217, 233, pl. 2, fig. 1 (Kikamba); Fischer, J. f. O. 1885, p. 132 (Massa).

Head, throat, crop, back, scapulars, least and median series of wing-coverts, a broad outer margin to the wings, and the tail glossy violet-blue; back of the neck deep glossy olive-green; greater wing-coverts, secondaries, and inner primaries, deep glossy green; median and greater wing-coverts with large subterminal broad black spots; breast, thighs, under tail-coverts, and inner under wing-coverts chestnut; remainder of the under surface of the wings and tail black, strongly glossed with violet on the smaller wing-coverts; bill and legs black. Total length 8.2 inches, culmen 0.6, wing 4.6, tail 3.6, tarsus, 1.15.

Hab. E. Africa, from Somali-land to Massa and Kikamba.

"Very rare, only seen on two or three occasions on the plateau. They were remarkably shy, went in small flocks, and much resembled *N. superbus* in their habits."

50. NOTAUGES ALBICAPILLUS.

♂ *Spreo albicapillus*, Blyth, J. A. S. Bengal, 1856, p. 301 (Somali-land).

Notauges albicapillus, Speke, Ibis, 1860, p. 246, pl. vii.; Heugl. Orn. N.O.-Afr. p. 520; Finsch & Hartl. Vög. Ostaf. p. 379.

Hab. E. Africa, confined to Somali-land.

Forehead and entire crown buffish white; loral band in front of the eye black; cheeks and ear-coverts dusky olive-brown; back of the neck, back, tail, inner secondaries, and primaries glossy olive shaded with green; wing-coverts

buffish white, with a large portion, especially the median and inner greater coverts, greenish bronze; spurious wing- and primary-coverts glossy green, like the back; outer secondaries buffish white for the greater portion of their outer webs, with the remainder of these feathers dusky black glossed with green; the feathers of the lower back and upper tail-coverts are mostly tipped with buff, and some of the outer tail-coverts have shaft-stripes of that colour; the tail-feathers are obsoletely barred; chin, throat, and chest dusky olive, with a slight greenish gloss, each feather with a broad buflish-white shaft-stripe; abdomen, thighs, under tail-coverts, and under wing-coverts buffish white; under surface of the quills dusky black, with buff outer margins to some of the secondaries; bill and legs black. Total length 10.8 and 10.6 inches, culmen 0.95, wing 6, tail 4.9, tarsus 1.55 and 1.6. The sexes are similar in plumage.

"Fairly plentiful towards the southern portion of the plateau. They breed in colonies in March, and are very noisy. Their nests are very similar to those of *N. superbus*."

51. TRERON WAALIA.

Columba waalia, Gm.

Columba abyssinica, Temm. & Knip, Pig. i. pl. 9.

Treron waalia, Heugl. Orn. N.O.-Afr. p. 817; Finsch & Hartl. Vög. Ostaf. p. 533; Hartl. Abh. nat. Ver. Brem. vii. 1881, p. 117 (Lado); Shelley, Ibis, 1883, p. 265; Salvad. Ann. Mus. Civ. Gen. 1884, p. 206 (Shea).

Hab. N.E. Africa, Somali-land, Socotra, and Sene-gambia.

"Only met with on the mountains where the fig-trees grow."

52. NUMIDA VULTURINA.

Numida vulturina, Hardw. P. Z. S. 1834, p. 52; Finsch & Hartl. Vög. Ostaf. p. 575.

← *Acryllium vulturinum*, Elliot, Monogr. Phasianidæ, ii.

pl. 38; Fischer, J. f. O. 1885, p. 119 (Barawa, Massa, and Pagani).

Hab. E. Africa, from Somali-land to Mozambique. It has been recorded by Dr. Hartlaub from W. Africa on the authority of Captain Probyn, and has been introduced into Madagascar.

"Very plentiful in large flocks in company with *N. ptitorhyncha*, but only met with in the Ogadayn."

53. FRANCOLINUS GRANTI.

Francolinus granti, Hartl. P. Z. S. 1865, p. 665, pl. 39, fig. 1; Heugl. Orn. N.O.-Afr. p. 891; Finsch & Hartl. Vög. Ostaf. p. 589; Shelley, P. Z. S. 1881, p. 597; Fischer, Zeitschr. ges. Orn. p. 382 (Masai); id. J. f. O. 1885, p. 119.

Francolinus rovuma, Gray, List Gall. Brit. Mus. v. 1867, p. 52.

Francolinus shoanus, Heugl. Orn. N.O.-Afr. p. 891; Salvad. Ann. Mus. Civ. Gen. 1884, p. 110 (Shoa).

Francolinus ochrogaster, Hartl. Abb. nat. Ver. Brem. vii. 1881, p. 118; viii. 1882, pp. 218, 230 (Lado).

Hab. E. Africa, from about 10° N. lat. to 7° S. lat. from Shoa to the Rovuma river.

"Common throughout the country."

54. DENDROCYGNA VIDUATA.

Anas viduata, Linn., S. N. 1766, p. 205.

Dendrocygna viduata, Dubois, Orn. Gal. 1839, p. 71, pl. 44; Heugl. Orn. N.O.-Afr. p. 1298; Finsch & Hartl. Vög. Ostaf. p. 806; Salvad. Ann. Mus. Civ. Gen. 1884, p. 242 (Shoa); Fischer, J. f. O. 1885, p. 115.

Hab. The whole of Africa south of about 16° S. lat.

"Only met with a single pair of these birds in March. Iris brown; bill black, with the nostrils and tip lavender; feet black in the male, lavender in the female."

55. PECILONITTA ERYTHRORHYNCHA.

~~X~~ *Anas erythrorhyncha*, Gm. S. N. 1788, p. 517; Finsch & Hartl. Vög. Ostaf. p. 808; Fischer, Zeitschr. ges. Orn. 1884, p. 394 (Masai); Bohm, J. f. O. 1885, p. 62.

Pecilonitta erythrorhyncha, Smith, Ill. Zool. S. Afr. pl. 104; Salvad. Ann. Mus. Civ. Gen. 1884, p. 244 (Shoa).

Querquedula erythrorhyncha, Heugl. Orn. N.O.-Afr. p. 1325; Fischer, J. f. O. 1885, p. 115 (Galla-land).

Hab. E. and S. Africa, from Abyssinia throughout the whole of East and South Africa.

"Shot on three occasions. Iris brown, bill black and light red, feet black."

56. IBIS HAGEDASH.

Tantalus hagedash, Lath. Ind. Orn. ii. 1790, p. 709.

Ibis chalcoptera, Vieill. Gal. Ois. pl. 246.

Ibis hagedash, Heugl. Orn. N.O.-Afr. p. 1141; Finsch & Hartl. Vög. Ostaf. p. 735; Fischer, Zeitschr. ges. Orn. p. 386; Bohm, J. f. O. 1885, p. 38; Fischer, tom. cit. p. 107.

Hab. The whole of Africa south of about 16° N. lat.

"Fairly plentiful on the Webbe Shebeyli. Iris yellow, bill black, with the basal half of the culmen red, feet black."

57. CURSORIUS GALLICUS SOMALENSIS,* subsp. n. (Plate VIII.)

Charadrius gallicus, Gm. S. N. 1788, p. 692.

Cursorius gallicus, Heugl. Orn. N.O.-Afr. p. 965; Dresser, B. Eur. vii. p. 425, pl. 514.

* *CURSORIUS SOMALENSIS*.

Diagnosis.—*Cursorius axillaris supra candalibusque isabellinus*.

Variations.—No local races of this species are known.

Synonyms.—*Cursorius gallicus Somalensis*, Shelley, *Ibis*, 1885, p. 415. *Cursorius Somalensis*, Shelley, Seebold, *Ibis*, 1886, p. 116.

Literature.—The Somali courser is a good species, which may be diagnosed as having the hind-head slate-grey (like *C. Gallicus* and *C. Rufus*), but the

Hab. Typical race: N. and N.E. Africa. Subspecific race: Somali.

I have deemed it advisable to refer the present specimen to a subspecies on account of its small size. Total length 8.3 inches, culmen 0.95, wing 5.3, tail 2.5, tarsus 2.3. In colouring it resembles the typical race, but is much smaller, about equal in size to *C. senegalensis* and *C. burchelli*.

"Fairly common in small flocks throughout the plateau. Legs white."

58. RHINOPTILUS CINCTUS.

Cursorius cinctus, Heugl. Syst. Uebers, 1856, no. 555; id. Orn. N.O.-Afr. p. 972; Fischer, J. f. O. 1885, p. 115 (Massa and Masai).

Hemerodromus cinctus, Heugl. Ibis, 1863, p. 31, pl. i. (good).

Hab. N.E. and E. Africa: Upper White Nile, Somali, Massa, and Masai.

"Only one pair met with, on the hills near Berbera, about the middle of April, at which season they were apparently breeding."

59. RHINOPTILUS GRACILIS.

Cursorius gracilis, Fischer & Reichen. J. f. O. 1844, p. 781 (Masai); Fischer, Zeitschr. ges. Orn. 1884, p. 390; id. J. f. O. 1885, p. 115.

axillaries and innermost wing-coverts greyish-buff (instead of nearly black). It further differs from *C. Gallicus* in the following particulars. It is a much smaller bird, the wing measuring 5.3 inch instead of from 6.0 to 6.3; nevertheless, it appears to have longer though more slender legs, the tarsus measuring 2.3 inch instead of 2.1 to 2.3 inch. The colour of the back and wing-coverts is much darker. The subterminal black bands on the tail feathers are twice as broad, and are also traceable on the central ones. Finally, the dark margins of the inner webs of the secondaries are paler, and scarcely occupy a fifth part of the web instead of more than half, and the colour of the outer web is grey rather than buff.

It is only known from a single example, which was obtained in Somaliland by Mr. Lort-Phillips, who states that it was fairly common in small flocks throughout the plateau.—From HENRY SEEBURG, on the Geographical Distribution of the Family of Charadriidae or the Plovers, Sandpipers, Snipes and their allies.

♂ ad. Above pale cinnamon, fading into sandy buff on the neck; crown with a black irregular subterminal bar to each feather; back, scapulars, wing-coverts, and inner secondaries with a black subterminal bar to each feather, with the broad margins beyond sandy buff; quills, secondaries, and inner primaries cinnamon, passing gradually into dark brown on the outer primaries and the primary-coverts; upper tail-coverts buffish white; tail pale cinnamon, fading into white towards the outer feathers, the middle feathers with blackish centres and a partial subterminal bar, these dark portions gradually fade away towards the outer feathers, where they are finally only represented by a dusky blotch on the inner web near the end of the outer feather. Underparts and sides of the head buff, fading into white at the upper throat; two black collars above and below the crop; the feathers of the lower throat have mostly very narrow dusky shaft-stripes; under surface of the wing buff, mottled with dusky black on the coverts, and passing into rufous shaded with dark brown towards the outer webs of the larger primaries; bill black, paler towards the base of the lower mandible; legs white. Total length 8 inches, culmen 0.6, wing 5.6, tail 2.8, tarsus 1.85.

♀ ad. Similar in plumage. Total length 7 inches, culmen 0.55, wing 5.2, tail 2.5, tarsus 1.9.

Hab. E. Africa, Somali-land, and Masai-land.

"Fairly plentiful throughout the plateau, where they were breeding in March and April. They reminded me of the Lapwing in the manner they showed their anxiety when we got near to their eggs."

60. CHETTUSIA CORONATA.

Charadrius coronatus, Gm. S. N. 1788, p. 691.
Pluvier du cap de b. esp., Buff. Pl. Enl. 800.

Chettusia coronata, Finsch & Hartl. Vög. Ostafr. p. 636; Fischer, Zeitschr. ges. Orn. 1884, p. 391 (Masai); Bohm, J. f. O. 1885, p. 51; Fischer, tom. cit. p. 116.

Stephanibya coronata, Salvad. Ann. Mus. Civ. Gen. 1884, p. 220 (Shoa).

Hab. The whole of E. and S. Africa between about 10° N. lat. and 30° S. lat.

"Very plentiful throughout the country, and very noisy at night if in any way disturbed. They were breeding on the plains in March and April. Iris black; base of bill pink, with the end black; legs pink."

61. *AEGIALITES TRICOLLARIS*.

Charadrius tricollaris, Vieill. N. D. xxvii. p. 147, pl. 233, fig. 4; Heugl. Orn. N.O.-Afr. p. 1027, pl. 34, fig. 5 (head); Schalow, J. f. O. 1883, p. 340; Finsch & Hartl. Vög. Ostaf. p. 655.

Aegialites tricollaris, Salvad. Ann. Mus. Civ. Gen. 1884, p. 218 (Shoa).

Hab. E., S., and W. Africa: Bogos, Abyssinia, Somaliland, the whole of South Africa, and Senegambia.

"Common, frequenting the streams in the mountains near the coast. Eyelids, base of bill, and legs pink."

62. *PODICEPS FLUVIATILIS CAPENSIS*.

Columbus fluvialis, Tunstall, Orn. Brit. 1771, p. 3.

Podiceps capensis, Licht. Nomencl. 1854, p. 104; Salvad. Ann. Mus. Civ. Gen. 1884, p. 252 (Shoa).

Podiceps minor, Heugl. Orn. N.O.-Afr. p. 1363; Finsch & Hartl. Vög. Ostaf. p. 811; Bohm, J. f. O. 1885, p. 38.

Hab. The whole of Africa.

This subspecies may be distinguished from the typical *P. fluvialis* by the secondaries being white, more or less washed with brown towards the ends of the outer webs. It is also rather smaller. The present specimen is apparently exceptionally small. Total length 8 inches, culmen 0.7, wing 3.65, tarsus 1.25.

"Some half dozen were met with in a pan near the middle of the plateau."

ON A NEW SPECIES OF BARBET OF THE GENUS TRACHYPHONUS.

By Dr. G. HARTLAUB.

When I read the description of *Trachyphonus erythrocephalus* in Captain Shelley's paper on the Birds of Somaliland (Ibis, 1885, p. 394), I came to the conclusion that the Somali bird did not belong to that species. Captain Shelley having kindly lent me one of the specimens, I have been able to compare it with the type of *Tr. erythrocephalus* in the Berlin Museum; and finding my suspicions justified, I now propose to describe the Somali bird as

TRACHYPHONUS SHELLEYI, nov. sp. (Plate IX.)

Pileo suberistato nitide nigro, nitore nonnullo chalybeo, plumulis ex aurantiaco miniatis, macula minuta nigra terminatis, postice circumdato; gutture et capitis lateribus neonon supereiliis flavis; regione malari et parotica diffuse coccinea, macula minore sericeo-alba; nuchae plumulis flavis, macula apicali nigra; gutturus nota subangusta, longitudinali, irregulari, nigra; fascia infragutturali haud circumscripta, dilute ex aurantiaco rubente, infra plumis nigris albo-guttatis marginata; intercapulio, dorso, alarum tectricibus scapularibusque in fundo nigro maculis subtriangularibus albis, distincte roseo-lavatis; tergo immaculato cinerascente, uropygio pallide flavo; supra- et infracaudalibus coccineis; remigibus nigris, albo fasciatim maculatis; subalaribus albidis; rectricibus nigris, mediis maculis 5-6 marginalibus subrotundatis albis, lateralibus fasciis 5-6 subflavescentialbis; abdomine pectoreque dilute et minus pure flavis; rostro rubello, pedibus nigris, iride fusca (♂). Long. tot. circa 18 cent., culm. 21 mill., al. 81 mill., caud. 85 mill., tars. 21 mill.

PLANTS COLLECTED IN SOMALI-LAND BY MESSRS.

JAMES AND THIRUPP, RECD. VI. 1885.

C/NOM/

Diceratella sinuata, Franch. (*D. incana*, Balf. fil.). Zafarug; Adda Gallah.

Cleome sp. (too young for determination). Boobi.

Polanisia foliosa, Hk. f. (var.). Habi.

„ *hirta*, Oliv. ? Harradigit.

Cadaba glendulosa, F. (no flower.) Near Shebele.

Polygala tinctoria, V. (*ex descr.*), *P. senensis*, Kl. Daror.

Talinum cuneifolium, W. Adda Gallah; Harradigit.

Tamarix articulata, V. Banks of Shebele.

Abutilon hirtum, Don ? Zafarug.

„ *fruticosum*, G. & P. Harradigit; Adda Gallah.

? „ *indicum*, Don (without flr. or fr.). Near Shebele river.

Pavonia glechomæfolia, Rich. (*Lebretonia cordata*, Hochst.). Daror; Habi; Adda Gallah; Harradigit; Zafarug.

„ sp. Harradigit.

„ *zeylanica*, Cav. (var.), Harradigit.

„ *Kotschyi*, Hochst. (var.), (*P. somalensis*, Franch. ?), no fruit. Habi; Harradigit.

Hibiscus somalensis, Franch. ? (*ex descr.*). Habi; Harradigit

„ „ ?? Adda Gallah.

„ *micranthus*, L. Boobi; Harradigit.

„ *cannabinus*, L. Shebele river.

„ *vitifolius*, L. ? Adda Gallah.

„ *calycinus*, W. ? Adda Gallah.

„ sp. Adda Gallah.

*Thespesia Dani*s, Oliv. ? (leafy branch only). Shebele river.

Melhania, near M. Denhami, Br., *an sp. nov?* Darror.

Grewia populifolia, V. Harradigit; Boobi; Darror.

„ sp. (fragment). Boobi.

„ sp. Boobi.

Triumfetta actinocarpus, S. Moore ? Near the Shebele river.

Corchorus hirsutus, L. var. *angustifolia*. Harradigit.

Sphedamnocarpus, sp? (no fruit). Habi.

Tribulus terrestris, L. var. *T. mollis*, Ehrb. Darror.

„ *cistoides*, L. Harradigit; Adda Gallah.

Fagonia cretica, L., *forma arabica*. Adda Gallah.

Monsonia senegalensis, G. & P. (*forma*). Harradigit.

Vitis cyphopetala, Fres. ? (*forma*). Boobi.

Crotalaria (near *C. petiolaris*, Franch. ?). Adda Gallah.

- Crotalaria* sp. Adda Gallah.
 " *albicaulis*, Franch.? Adda Gallah.
 " near *C. maxillaris*, Kl., *C. lupinoides*, H. and *C. zanzibarica* (no fruit).
 " *Jamesii*, Oliv., sp. nov. Ic. Plant, 1530. Adda Gallah.
 (Plate I.)
 " *laxa*, Franch.? Darror.
Indigofera, sp. (fragments). Harradigit.
 " sp. Adda Gallah; Darror.
 " near *I. arrecta*, Hochst? (no fruit). Adda Gallah.
Vigna? sp. (inadequate). Adda Gallah.
Dalbergia? ? (""). Boobi; Habi.
Cassia obovata, Coll. or *C. holosericea*, Fres. (no legume). Adda
 Gallah.
 " *Sophora*, L. Shebele River.
 " *didymobotrya*, Fres.
Acacia, sp., near *A. albida*. Harradigit.
Modecca, near *M. digitata*, Harv., sp. nov.? Darror.
Cephalandra quinqueloba, Sch.? Harradigit.
Corallocarpus, near *C. Gijef*, Ilk. f. Habi; Boobi; Harradigit.
Giseckia pharmaceoides, L. Habi.
Cucurbita? (fragments). Harradigit.
Cephalandra, sp.? Harradigit.
Hedyotis, sp.? Adda Gallah.
Dirichletia, sp. nov.? (fragment). Boobi or Harradigit.
Pentanisia (Knoxia) longituba (Franch.)? Darror.
 " *ouranogyna*, S. Moore. Adda Gallah.
Vernonia (fragment). Adda Gallah.
Psiadia incana, O. & Hiern. Habi.
Blepharispermum zanguebaricum, O. & H.? Harradigit.
Achyrocline glumacea, O. & H. Habi; Adda Gallah.
Nidorella? *pedunculata*, Oliv. (sp. nov.).

Herba tenuiter lanata, ramis gracilibus decumbentibus basi foliosis, foliis linearibus subtus præcipue lanatis, pedunculo erecto nudo (3-5 poll. longo) albido-lanato apice 3-5-cephalo, capitulis pedicellatis hemisphericis multifloris, involuci bracteis subæquilongis 2-3-seriatis linearibus acutis tomentellis floribus dimidio brevioribus, radii (?) lignis 1 lin. longis (sicco) pallide flavidis, antheris basi obtusis inappendiculatis, ovarii compressis pilosulis, pappo uniseriato, setis barbellatis corolla æquilongis.

Herba 5-7 poll.; folia 2-1 poll. longa, 1-2 lin. lata. Pedicelli 2-3 lin. longi. Capitula ½ poll. lata. Adda Gallah.

Excepting in habit and the larger capitula, I do not see how this plant differs from known species of *Nidorella*.

Leafy specimen, perhaps *Pulicaria adenophora*, Franch. Near Shebele River.

Sonchus, sp. (" *Micerhynchus Petitianus* ?"). Adda Gallab.

Leafy fragment, perhaps *Acokanthera*? Near Shebele River.

Adenium somalense, Balf. fil. "Used to poison arrows." Darror.

Dæmia angolensis, Den. Zafarug.

Gomphocarpus, near G. *stenophyllus*, Oliv. Adda Gallab.

Glossonema? *Thruppii*, Oliv., sp. nov.

Herba $\frac{1}{2}$ pedalis pilis brevibus albidis parcis potentibus hirta, foliis subsessilibus oblongo-lanceolatis acutiusculis plus minus conduplicatis supra glabris subtus et in margine parce hirtellis, umbellis pauci—(3-5-) floris folio multo brevioribus breviter pedunculatis, pedunculo pedicellisque patentim hirsutis, calyce 5-partito segmentis lanceolatis acutis corolla rotata 5-fida dimidio brevioribus extus hispidulis, corollæ lobis dextrorum obtentibus ovatis apice crassiusculis obtusis, corone squamis tubo corollæ insertis lobis ejusdem alternis ovatis v. ovato-quadratis obtusissimis crassiusculis apice incurvis tubo corollæ paullo longioribus, disco gynostegii truncato subplano.

Folia $1\frac{1}{2}$ - $2\frac{1}{2}$ poll. longa, 6-8 lin. lata, patentia, interdum subtus glabrescentia, internodiis 4-plo longiora. Flores 4-5 lin. diam. Ounamuff.

This plant differs from described species of *Glossonema* in the plane apex of the gynostegium and in the obtuse inappendiculate lobes of the corona, which are inserted upon the corolla-tube and are narrowly confluent at base; but I cannot doubt that it is a congener of *G. Revoili*, described by M. Franchet (Sertul. Somal. p. 40. t. 3), in which, however, the coronal segments are linear-subulate.

Vincetoxicum? * (near *Schizostephanus alatus*?). Boobi.

(*Cynoctonum*), sp., *V. hastifolium*, H. ? Boobi.

Heliotropium (near *H. longiflorum*). Boobi.

Sericostoma albidum, Franch. (ex descr.). Zafarug; Adda Gallab.

Trichodesma, near *T. calathiforme* and *T. africanum*. Zafarug; Adda Gallab.

Ipomæa obscura, Ker (*I. ochracea*, Den?). Darror.

? *Convolvulus*, near *C. malvaceus*? (inadequate). Boobi.

? " (inadequate). Adda Gallab.

Hildebrandtia africana, Vatke. Harradigit.

Breweria somalensis. Vatke.

Solanum nigrum, L., var. Ounamuff.

* Our specimen of *Vincetoxicum* (*Schizostephanus alatus*, Hochst. Hb. Schimp. Abyss., 1687), is too imperfect to allow of satisfactory comparison.

- Solanum carense*, Dun. Zafarug; Hahi; Boobi.
 „ *gracilipes*, Dene. Boobi; Hahi; Adda Gallah.
 „ *albicaule*, Ky. Harradigit.
 „ near Ky. Harradigit.
 „ sp., near *S. indicum*. Boobi.
 „ near *S. dubium*, Fres. Adda Gallah; Boobi; Hahi.
 „ sp. Boobi; Harradigit.
 „ (fragment). Boobi.
Withania somnifera, Dun. Zafarug.
Lycium, near *L. europaeum* (fragment).
Craterostigma pumilum, Hochst. Hahi; Boobi.
Striga, near *S. Hermonthica*. Ounamuff.
Pedalium, sp. Harradigit.
Pterodiscus speciosus, Hk.
Thunbergia (*Meyenii*) *erecta* (var.?). Adda Gallah.
Crossandra nilotica, Oliv. (forma).
Hypoestes verticillaris, Br. Zafarug.
Ruellia (*Dipteracanthus patulus*, Nees) Adda Gallah; near Shebele River; Harradigit; Darror.

Ruellia discifolia, Oliv., sp. nov. (Plate III.), ramulis gracilibus glanduloso-pubescentibus ultimis etiam pilis longis simplicibus patentibus parce vestitis, foliis late rotundatis obtusis integris basi subtruncatis utrinque stellato-pubescentibus longe petiolatis, floribus subtripolii-caribus solitariis ramulos axillares apice bifoliatis terminantibus, calycis 5-partiti segmentis linearibus subæqualibus corolle tubo leviter curvato superne dilatato 4-5-plo brevioribus, corollæ lobis ovato-rotundatis subæqualibus obtusis integris, antheris linearibus vix exsertis. (Plate II.)

Folia $\frac{3}{4}$ -1 poll. longa et lata; petiolus lamina subæquilongus. Calyx $\frac{3}{4}$ poll. longus: corolla $2\frac{1}{2}$ poll. longa; tubus superne leviter pubescens.

A little resembling *R. amabilis*, S. Moore, the leaves of which are obtusely toothed, shortly acuminate, and with a simple, not stellate, indumentum. Adda Gallah.

- Ruellia*? (inadequate). Darror.
 „ ? („). Harradigit.
Asystasia, sp.? (*Tyloglossa*). Adda Gallah.
 „ ? sp. (fragment). Adda Gallah.
Somalia diffusa (Plate II.), Oliv., gen. nov., Acanthacearum Ic. Plant. 1528. Harradigit. (Plate III.)
Acanthacea dub. (inadequate). Near Shebele.
Justicia, sp. (fragment). Darror.
 „ sp. („). Adda Gallah.

- Justicia, sp. (fragment). Hahi.
 " (*Rostellaria*), sp. Adda Gallah.
 " sp. (fragments). Adda Gallah.
Barleria Prionitis, L. ? var. (*B. hypocrateiformis*, L.). Adda Gallah.
Lantana Petitiana, Rich. Adda Gallah.
Bouchera sessilifolia, Vtke. ? (fragment). Adda Gallah.
Ocymum Knyllum, Vtke. Boobi.
 " *menthaefolium*, var. ? (fragment). Adda Gallah.
 " *canum*, Sims. Boobi.
 " ? perhaps near *O. depnuperatum*, Vtke. Harradigit.
 " ? (inadequate). Boobi.
 " *tomentosum*, Oliv., Ic. Plant. 1529. Hahi. (Plate IV.)
Orthosiphon coloratus, Vatke ?? Hahi.
Ocymoidea, gen. nov. ? (inadequate). Harradigit.
Insieocorys hyssopifolia, Franch. (ex deser.). Boobi.
Leucas, sp. nov. ? Zafarug.
 " sp. nov. ? near *L. paucicrenata*, Vtke. Zafarug.
Teucrium Polium, var. ? *foliis integris*. Adda Gallah.
Boerhaavia verticillata, Poir. Hahi; Darror; Adda Gallah.
 " *repens*, L. var. *viscosa*. Harradigit.
 " " (forma ?). Adda Gallah.
Aerua lanata, Jussieu, var. Zafarug.
Sericocoma pallida, S. Moore. Harradigit.
Sueda fruticosa, Forsk. v. *S. vermiculata*, F. Shebele River.
Euphorbia cuneata, V. ? Harradigit.
Hydnora Africana, Thbg. ? Hahi.
Urginea (Albuopsis), near *U. grandiflora*. Hahi.
Asparagus abyssinicus, Hochst. Boobi.
Pancratium trianthum, Herb. Hahi.
Anthericum (Phalangium), sp. nov. Hahi; Harradigit.
Crinum (Stemmer) Thruppii, Baker, sp. nov.

Foliis lanceolatis glabris margine denticulatis, pedunculo brevi, umbellis 20-30 floris, spathe valvis deltaeoides, pedicellis elongatis, floribus rubellis erectis, perianthii tubo cylindrico, limbi segmentis linearibus erecto-falcatis tubo sesqui brevioribus, staminibus limbo brevioribus, stylo perianthio equilongo.

Folia (immatura?) 2 poll. lata.

Pedicelli 1-1½ poll. longi. Perianthii tubus; 2½-3 pollicaris, segmenta 2 poll. longa, medio 2 lin. lata, venis 10-12 percursa. Anthere 4 lin. longae. Hahi.

Agrees with *G. Tinneanum*, Kotschy and Peyritsch in *Plantæ Tinneanæ*, p. 44, t. 21, in its dense umbels of erect red flowers, with linear segments and long pedicels. But the Kordofan plant has a

perianth limb not more than half as long as the tube, and much shorter stamens. J. G. Baker.

Commelynna, near *C. africana*, L. Addah Gallah.

„ near *C. pyrrholepharis*, Hassk. Harradigit.

„ sp. Darror.

„ *albescens*? Hassk. Boobi; Adda Gallah.

Ancilema, sp. nov.? Harradigit.

„ sp. Harradigit.

Stylochaeton, sp. (inadequate). Uabi.

Aponogeton, sp. Darror.

Cyperus dubius, Nees? Harradigit.