SYSTEMATIC AND DISTRIBUTIONAL NOTES ON
SOUTHERN AFRICAN BIRDS

by

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(1) A REVISION OF THE SOUTH-WEST ARID RACES OF
THE COURSER RHINOPTILUS AFRICANUS
(TEMMINCK)

Two distinct and disjunct population groups of the Double-banded Courser Rhinoptilus africanus (Temminck) exist: a southerly one inhabiting the more arid grasslands of the south and west of the South African sub-continent, and the other the Somali Arid region north-eastwards from central Tanganyika, with a distributional hiatus of some 1,200 miles in central Africa.

In this paper only the southern African group of populations is reviewed. It would have been highly desirable to treat the East African group similarly, but this has not been possible due to the lack of material; it is, however, discussed briefly. The status of the southern group has long remained in an unsatisfactory state, disagreement being general in the literature as to how many forms ought to be recognised. This review initially arose through the need to describe an apparently distinctive population inhabiting the
north-eastern portion of the Bechuanaland Protectorate. On initial study it became apparent that it would be impossible to describe any new forms without a proper understanding of racial variation as a whole, and at the same time be able to satisfactorily define the geographic limits of the various taxonomically recognisable forms.

To date, four races have been named from the region under review, these are: *R.a.africanus* (Temminck), *Cat.Syst.Cab.Ornith.*, 1807, pp. 175, 263: Great Namaqualand; *R.a.bisignatus* (Hartlaub), *Proc.Zool.Soc.Lond.*, 1865, p. 87: Benguela; *R.a.sharpei* Erlanger, *J./.O.*, 53, 1905, p. 60: Windhoek; and *R.a.granti* W. Sclater, *Bull. Brit.Orn.Cl.*, 1921, p. 132: Deelfontein. Of these forms, Sclater (1924) recognised besides *africanus*, the forms *granti* and *bisignatus*, but makes no mention of *sharpei*, which for reasons to be discussed later, he apparently regarded as a synonym of *africanus*. Friedmann (1930), though not directly concerned with the southern African races, upheld the distinctiveness of all the named forms, while Peters (1934) recognised *bisignatus* and *granti*, with *sharpei* as doubtfully distinct from *africanus*, Roberts (1940) accepted *granti* and *sharpei* in addition to the nominate, and in turn, Vincent (1952) accepts *sharpei* and *granti*, but notes that the former is widely considered as doubtfully distinct from *africanus*, while later McLachlan and Liversidge (1957) recognised *granti*, but not *sharpei*. Most recently Mackworth-Praed and Grant (1962) admit, in addition to the nominate subspecies, only *sharpei* and *bisignatus*, the latter of which is considered extra-limital to the territories covered by all the other above-mentioned authors, with the exception of Sclater, Peters and Friedmann.

The description of *Cursorius africanus* by C. J. Temminck was based on a bird collected by Levaillant on his journey north to the Orange River in the years 1783-84 and supposedly came from Great Namaqualand, which territory lies to the north of the river, in southern South-West Africa. Unfortunately the *Type* appears to be no longer in existence, and as so much doubt surrounds this and the other journeys of Levaillant there cannot be any degree of certainty that the original bird did in fact come from Namaqualand. There has long been suspicion that Levaillant in his journeys may not have even reached the Orange River.

The two most recent discussions on Levaillant's northern journeys are those of Grant (1957) and Forbes (1958). Grant, after closely studying Levaillant's works, traces his northern journey, and fully accepts, contrary to some previously expressed opinion, that he both reached and crossed the Orange River, indeed travelling as far as to the north-east of present-day Keetmanshoop. However,
Forbes, op. cit., following upon his previous researches (Forbes, 1950), finds that acceptable geographical evidence for Levallant ever having even reached the Orange River does not exist in the account of his supposed travels. Whatever the truth, it must nevertheless be accepted that great doubt consequently surrounds the origin of the Type of *Cursorius africanus*. If it were argued that Levallant did not cross the Orange River, but perhaps obtained his bird in Little Namaqualand, then the possibility arises that the name *C.africanus* was originally based on the bird now known as *R.a.granti*.

Unfortunately, too few specimens have been available to ascertain whereabouts in the north-western Cape, *R.a.granti* becomes replaced by the paler nominate form, as no specimens have been available between Vanrhynsdorp and Pofadder, leaving a large gap in a critical region. Rather than suggest any change of established names, it would seem best to arbitrarily restrict the type-locality of the nominate form to prevent any further confusion. Unfortunately no material has been available for examination from any of the localities said to have been visited by Levallant, south at least of the Orange River. However, as the nominate race occurs at Pofadder, close to that river, and to the south-east of Pella Drift, which Levallant may or may not have reached, it seems convenient that the type-locality should be restricted to Pofadder, Great Bushmanland, northern Cape Province, and that a suitable Neotype be chosen, as the Type would appear no longer to exist. It is, therefore, proposed that an adult ♀ from Pofadder, north-west Cape Province, collected on 7 June, 1962, and now in the Durban Museum and Art Gallery, Durban Museum Registration No. 14893, should be designated as the Neotype of *R.a.africanus*, the type-locality of which is accordingly amended.

The type-locality and validity of Erlanger's *R.a.sharpei* have also had a confused history. Grant (1915) in reviewing the races of *R.africanus*, mistakenly restricted the type-locality of *R.a.sharpei* to Deelfontein, Cape Province. This was because Erlanger, in his original description, gave no precise type-locality, but merely stated that his bird inhabited "Sudosten" Africa, but as pointed out by Macdonald (1957), this was an obvious lapsus for "south-western", as Erlanger's Type was actually based on a bird collected by Läbbert at Windhoek, in South-West Africa. Grant's restriction, therefore, of the name *R.a.sharpei* to the dark birds of the Cape Province was a confusing procedure. However, Sclater (1921) corrected this error, and at the same time proposed the name *R.a.granti*, nom nov., with Deelfontein as the type-locality, for the dark populations of the Cape Province and Orange Free State that Grant had previously
called *R.a.sharpei*. Unfortunately following up this action, Sclater then mistakenly chose to treat *R.a.sharpei* as a synonym of the nominate form, this probably being the reason for this form's apparent omission in his *Systema Avium* in 1924.

In the past, the confusion that has surrounded the status of the southern African populations of this species (aside from that arising directly from the problems associated with the type-locality of *R.a.sharpei*), seems to have largely arisen through no single worker having seen at the one time a sufficient number of specimens from a wide range of localities. In this particular study, almost 100 specimens have been available for examination. Even so, though this has revealed the broad picture of variation, much detail remains to be filled in, and there are still large areas within the species' range from which no material has ever been collected; even a thorough perusal of the literature has failed to close these gaps. In mapping individual ranges, therefore, allowance must be made for the fact that these gaps in our knowledge do exist and the limits of range of the different races can only be approximated in certain areas.

Throughout the species' range geographical variation is orthodox, the most heavily saturated birds inhabiting the south and southwest of the Cape Province and Orange Free State, giving way to increasingly pallid populations in South-West Africa, Bechuanaland and Angola. The name *R.a.granti* covers these heavily saturated southern birds with dark backs and cinnamon undersides. The nominate race is an altogether paler version, but it is sometimes difficult to draw a dividing line as intergradation is gradual. *R.a.sharpei* of central and northern South-West Africa continues this trend, but instead takes on an increasingly sandy hue. *R.a.bisignatus* of coastal Angola is not widely differentiated from *R.a.sharpei*, but is a pygmy form. Finally in north-eastern Bechuanaland there exists a whitish grey form to be described in this paper.

Other complications may arise to cause confusion: thus this courser is known to undertake local migratory movements, which, though as yet poorly understood can bring different and nomenclaturally recognisable forms into close geographical contact and thus create the impression of extreme individual variability should a sample comprise both resident and migratory birds. Wear has also been stated to be a factor, since Sharpe (1904) noted that in a series from Deelfontein (the type-locality of *R.a.granti*), six specimens showed a gradation from a dark to a light sandy rufous, the darker specimens being those newly moulted in February, whilst those taken in November had lost much of the intensity of their
colour and were much paler. While wear must be admitted, I have not found that it makes the subspecific allocation of individual specimens in any way difficult. In *R.a.granti* wear seems only to affect the pale feather edges, which tend to bleach somewhat paler, and appear less rusty than in fresh birds, but this in no way otherwise affects the conspicuously darker feather centres. Likewise on the underparts some fading may take place. The nominate race seems to be similarly affected, but not to quite the same degree, as it is to begin with, altogether less heavily pigmented. *R.a.sharpei* and *R.a.bisignatus*, living in dry sandy regions, would seem to lose the sandy buff feather edges which in worn birds take on a washed-out buffish white appearance, but this does not effect the rest of the mantle. The pallid birds of north-eastern Bechuanaland in having almost completely lost the buffy tones are not altered at all through wear.

Before describing the population inhabiting the north-eastern portion of the Bechuanaland Protectorate it is essential at this stage to first review some of the older and more recently expressed opinions appearing in the literature in respect of the status of the forms of this courser.

Despite the fact that the distinctiveness of *R.a.sharpei* has often been in doubt, Seebohm (1888), placed an Andersson bird from Ondongo with *R.a.bisignatus* on the basis of its paler colour, though *bisignatus* has never subsequently been claimed to occur within South African limits. I have examined this bird, which is, of course, the rather similar, but larger *R.a.sharpei* in rather worn plumage. Again, Seebohm noted that two Andersson birds from Great Namaqualand were intermediate, which must have demonstrated intergradation with the nominate form. Much later, Hoesch and Niethammer (1940) listed all their South-West African material as being nominate, but state that of their thirteen specimens from Damara-land and Namaqualand, as well as six others in the Berlin Museum, all exhibited a very marked degree of variation in the mantle colour, some being dark and others lighter. Unfortunately, localities are not mentioned which might correlate this variation, but it seems obvious that these authors must have had both the nominate form and *R.a.sharpei* in their series, especially from the more northerly localities listed. In the most recent treatment, that of Macdonald (*op.cit.*), *R.a.granti* was regarded as a probable synonym. Macdonald stated that from the Deelfontein series, specimens could be closely matched with a specimen from Klipfontein, Little Namaqualand, and by material from the Transvaal (no localities given), and of Andersson specimens from Maltahohe and Otjimbinque, he specifi-
cally remarked that the Otjimbinque bird was as dark as the darkest specimen in the Deelfontein series. These facts are at first difficult to reconcile in view of the present evidence, but it would seem, in view of how Sharpe (op.cit.), discussed the individual variability of these Deelfontein birds, that more than one geographical form is represented in this series, and if the birds mentioned by Macdonald were to be critically re-assessed alongside more adequate series, a less conflicting conclusion would almost certainly result. Macdonald then proceeds to discuss further the paler populations, stating that two specimens from Matchless Mine (an Andersson locality near Otjimbinque) are much paler, being almost identical with specimens from Aus, while a bird from the desert west of Ababis is even paler. It is then stated that from northern South-West Africa, an Andersson specimen from Ondonga and two Hoesch specimens from the Etosha Pan are also pale birds. I have examined the Ababis specimen which I concur with Macdonald is referable to *R.a.sharpei*, whilst the more northerly Etosha area is, of course, inhabited by this form. Specimens from the extreme south-western Transvaal and another from the Middle of the Bechuanaland Protectorate are also stated to be paler, “appreciably so than nominate *R.a.africanus*”. It would seem, however, that these specimens must have been nominate as here outlined and quite naturally paler than the more composite “nominate” population as understood by Macdonald which included *R.a.granti*. Macdonald then summed up by recognising a widely distributed dark form that tended to become paler along the southern edge of the Kalahari Desert and again appreciably paler along a narrow fringe of the Namib Desert, also that there existed an altogether whiter population in the region of the Etosha Pan which he rightly regarded as *R.a.sharpei*. Macdonald therefore seems to have gone only half way in fully appreciating the trends of subspecific variation and to an understanding of the true position, but was of course initially handicapped through including under the one name *R.a.granti* and the nominate population.

Lastly, Rudebeck (1955), gives most useful data for a series of historical specimens collected in the Nineteenth Century by Axel W. Eriksson, providing detailed descriptions of individual birds. This material consists of four skins; two from Omaruru and one from Okorokambe (this last locality not being traceable); which, though differing slightly among themselves, would appear to represent *R.a.sharpei*. The most interesting specimen, however, is from Inkoane (specimen No. 885). Rudebeck was unable to trace this locality, but suggested, from a study of the dates of Eriksson’s specimens, that it must be quite close to the Botetlele River. In actual fact
Eriksson’s Inkoane would appear to be what is now known as Inkokwane, which lies considerably to the south-east of the Botetle at approximately 21° 25’ S., 24° 40’ E., being some 51 miles north-west of Serowe on the road to Lothlekan on one of the old trade and wagon routes to Ngamiland. Eriksson must, therefore, have obtained this bird on his journey north-westwards to Lake Ngami. Special interest attaches to this Inkokwane bird. It is described by Rudebeck as being generally much greyer than the other specimens discussed, with the broad feather edges pale, almost a silvery grey, and below, on the upper breast grey with a slight tinge of sand-colour. The full significance of this specimen will be discussed shortly.

As set out in the introduction to this revision, the populations inhabiting the north-eastern sector of the Bechuanaland Protectorate do not agree with any of the previously described forms, and differ sharply from the populations of *R.a.africanus* inhabiting the south-west and central Kalahari. Through expeditions undertaken by the National Museum of Southern Rhodesia to the Bechuanaland Protectorate over a number of years, a reasonably good series of this species has been obtained within that territory and its range in consequence extended considerably to the north-east of its previously known limits. When all this material was laid out, it eventually became obvious that these north-eastern birds represented a distinctive and hitherto undescribed geographic race, distinguished by the general greyness of the mantle, with the feathers edged with white instead of buff. These birds it is proposed to name:

**Rhineoptilus africanus traylori**, subsp. nov.


*Description:* Differs markedly from *R.a.africanus* (Temminck) and *R.a.sharpei* Erlanger in its general increased pallor, thus closest to *R.a.sharpei* from which it can at once be distinguished by the general overall greyness of the mantle, due to the almost complete loss of the buffy and sandy tones. The feathers of the forehead, crown, back and scapulars are a pale stone grey-brown, with the sub-terminal transverse dark bars narrower, less blackish, and more clearly demarcated basally. The margins to the feathers are sandy
white, completely lacking the strong buff or sandy tones of all other races. Below, generally much paler, the buffy tones on the upper breast much reduced in extent, and with the abdomen and flanks pure white; under tail-coverts pure white. Tail with outermost rectrices pure white; penultimate pair brownish. Wings with pale chestnut-buff on the inner webs of the primaries and secondaries. A single immature specimen from Nata, not long able to fly and with the chest-bands undeveloped, is at this stage equally as pale as the adults.

**Measurements of the Type:** Wing (flattened) 146, tail 63, culmen (exposed) 12.5, tarsus 52 mm.

**Material examined:** 5 ♂, 4 ♀. **Bechuanaland:** Masarwanyana Pan, Lake Ngami; Cungera Pan, near Lake Ngami; Xhane, between Odiakwe and Bushmans Pits; Kedia, Lake Dow; Nata; Orapa Well and Murwamusa Pan.

**Range:** North-eastern Bechuanaland from north-west of Serowe to Lake Dow, Lake Ngami and the northern perimeter of the Makarikari Salt Pan. It is quite apparent, too, that the Inkokwane bird described by Rudebeck (*op.cit.*) must also represent *R.a.traylori* as the description fits very closely and further extends its range to the south-east. Material from Murwamusa, in the south-central Kalahari, is near this form, but the southern limits must remain obscure, as there is still a vast area in the central Kalahari from which practically no material is available. Note also that the northern range of the species in this sector would seem to be limited though the replacement of the open grassy plains by enclosed mopane woodland, with the result that this species is not to be expected further to the north-east in western Southern Rhodesia.

**Remarks:** The discovery of this pallid form adds still another subspecies to the already long list of pale endemic races now known to inhabit this portion of the Bechuanaland Protectorate. Ecologically it does not appear to differ from the nominate race inhabiting most of the remainder of the territory, though it may to some extent be associated with the short grassy areas in the vicinity of white calcareous pans.

The following races of the Double-banded Courser may then be recognised:

(a) **Rhinoptilus africanus africanus** (Temminck)

*Cursorius africanus* Temminck, *Cat.Syst.Cab.Orth.*, 1807, pp. 175, 265: Great Namaqualand, herein restricted to Pofadder, Great Bushmanland, north-western Cape Province.
Synonyms:


(Both these descriptions are said to have been based on the original Levailant bird.)

Description: Above, mantle slate-brown, each feather with a sub-terminal blackish band and broadly edged with pale sandy buff; crown of head similarly patterned but rather variable, and the feathers with the sub-terminal blackish area developed to a varying degree; nape sandy buff, with indistinct streaks. Below, throat buffish white, shading to sandy buff on chest, narrowly, but rather variably streaked with blackish. Chest pattern comprising two parallel blackish bands on buffish ground, the lower slightly broader than the upper, rest of under-parts to under tail-coverts very pale buff or buffish-white. Upper tail-coverts immaculate white, extending halfway along tail. Tail brown, tipped with white. Outermost pair of rectrices white, with variable amounts of brown on inner pair, usually, but not always, confined to inner web. Primaries dark brown, changing to pale pinkish cinnamon on inner web; secondaries and scapulars largely so coloured, with dark sub-terminal markings on outer webs.

Measurements: Wing ♂ 147-162 (153.6); ♀ 149-157 (152.0); tail ♂ 61-70 (66.3), ♀ 63-71 (67.0); tarsus ♂ 54-62 (57.7), ♀ 53-62 (55.0).

Range: The south-west and central Kalahari (with a single specimen from near Lake Ngami), Bechuanaland Protectorate, south-westwards through the extreme northern Cape Province to Great Bushmanland, in the north-west Cape, and Great Namaqualand, north of its stated range in South-West Africa intergrades with _R.a.sharpei_ from about Windhoek and Okahandja. Though local movement seems to obscure the precise range limits, a further complication being that the type-locality of _R.a.sharpei_ lies at the junction of this form's range. Note that two specimens from Glen, on the Modder River in the Orange Free State, collected in early June are of this form, and must be migrants.

Specimens examined: Bechuanaland Protectorate: 44 miles west of Molepolole, Letlaking-Moshaweng road, Kuke Pan, Sekhuma Pan; 100 miles west of Kanye, Kakia, Kang, Ngwabura Pan, Chawe Pan, Tsane, Mothlatlago. Cape Province: Pofadder. Orange

Note: McLachlan and Liversidge state that some form of this species has been recorded on red soil veld along the Oliphants River in Portuguese East Africa. This is far outside the species normal range and from a most unusual habitat. Liversidge, in litt., was unable to trace the source of this record, so that it is accordingly rejected.

Approximate ranges of the southern African forms of *Rhinoptilus africanus*

1. *Rhinoptilus africanus africanus* (Temminck)
2. *Rhinoptilus africanus granti* W. Sclater
3. *Rhinoptilus africanus sharpei* Erlanger
4. *Rhinoptilus africanus bisignatus* (Hartlaub)
5. *Rhinoptilus africanus traylori* Irwin

(b) *Rhinoptilus africanus granti* Sclater


Description: Differs from the nominate race in being overall much darker; feathers on mantle dark earth-brown, not slate; sub-
terminal blackish band usually broader, less clearly demarcated from the feather centre; edging to feathers chestnut-buff. Below, throat pale sandy, but rest of under-parts strongly tinged with chestnut, abdomen and flanks more strongly sandy buff, under tail-coverts similar. Throat and chest streaking variable, but usually more strongly developed, and frequently extending on to chest below the black breast-bands, which are in turn blacker, and in the case of the lower, broader also. Upper tail-coverts less pure white, tinged with buff towards the apices. Primaries deeper cinnamon on the inner web, and secondaries likewise a deep cinnamon. Tail with white variable in extent, but usually reduced, second outermost pair often white only at tip, with brown markings extending to outermost pair.

Note: In certain localities in the north-central Cape Province and extreme western Orange Free State occur birds which cannot strictly be referred to either *R.a.granti* or to the nominate race. Eight such birds are available from Vanrhynsdorp, De Aar, Murraysburg, Winburg, Van Wyks Vlei, Kimberley and Mafeking. They resemble *R.a.granti* in the generally dark upper-parts, but have instead the feather centres dark slate-brown, with contrastingly pale sandy, not chestnut, edges, as in *R.a.africanus* but on the under-parts are closely similar to *R.a.granti*. These birds could on colour grounds be considered as intermediates, but occupy a rather broad central zone within the range of *P.a.granti* with a tendency to occur along the northern and western edge of that race's range, but their status must remain unsettled as in almost every case they have been collected alongside normal *R.a.granti*. There seems little chance that they are in any way migrants as all have been collected between September and March and the plumage in every instance shows some degree of wear. Their status must remain unsettled until such time as larger series become available from the northern areas of the Cape Province, from which very little material has ever been collected.

Measurements: Wing ♂ 147-168 (159.4), ♀ 140-158 (152.4); tail ♂ 67-76 (70.2), ♀ 61-70 (66.0); tarsus ♂ 50-61 (55.7); ♀ 49-56 (52.2).

Range: The Cape Province from just north of Cape Town to Vanrhynsdorp, eastwards through the Karoo to Cradock, Somerset East and Grahamstown, in the eastern Cape, thence northwards to the southern, western and central parts of the Orange Free State, west of about 28°E., but absent to the east thereof, and from the Transkei, Pondoland, Basutoland and Natal, not extending further
east than Rouxville and Aliwal North in the south. It also occurs in the northern Cape Province as far as Kuruman and Vryburg and in the extreme south-western Transvaal from Schweizer Reneke to Potchefstroom.


(c) Rhinoptilus africanus sharpei Erlanger


Description: A pale sandy form, nearest the nominate race, but differing in having the mantle even paler; feather centres greyish slate-brown, with narrower blackish sub-terminal dark bands and conspicuous broad pale sandy buff edges. Below, overall pale whitish, suffused with light buff; streaking on throat variable, but generally reduced in extent and sometimes imperceptible, abdomen and flanks immaculate; under tail coverts white. Secondaries and primaries with inner webs pinkish buff; upper tail coverts pure white. Tail with outermost rectrices pure white, penultimate pair with brown spot on inner web, remainder narrowly edged or tipped with white.

Measurements: Wing ♂ 138-159 (148.0), ♀ 138-152 (145.2); tail ♂ 60-70 (65.0), ♀ 57-64 (62.4); tarsus ♀ 54-57 (55.7), ♂ 54-56 (55.0).

Range: Not yet clearly defined, but occurs certainly from Ababis, in South-West Africa, northwards to the Brandberg, and inland to Okahandja and Quickborn, thence northwards to Ondonga, Ovamboland, and the region of the Etosha Pan; where the influence of R.a.traylori is apparent. No material has been available from either the northern Namib or the Kaokoveld, through which regions it must surely range continuously to intergrade northwards with R.a.bisignatus in coastal Angola, while it seems probable that it must also extend into the Huila Province, south-eastern Angola.

Specimens examined: South-West Africa: Ababis, Okahandja, Quickborn, Onguma, Ondonga and Namutoni. Total 14.

(d) Rhinoptilus africanus bisignatus (Hartlaub)

Description: A very diminutive form, in colour showing both a resemblance to R.a.africanus and R.a.sharpei, but closest to the latter, with broad sandy buff edges to the mantle feathers, brighter than in R.a.sharpei, with the feather centres more toned with reddish buff, and the sub-terminal dark bands narrower, less blackish. Below, similar to the nominate race rather than R.a.sharpei, with the streaking on the throat finer and the chest-bands narrower. Inner webs of primaries and the secondaries not differing from the other two forms. Tail like the nominate race, with brown confined to the inner web or the penultimate rectrices.

Measurements: Wing ♂ 135-138 (136.0), ♀ 130-138 (135.0); tail ♂ 48-57 (52.8), ♀ 60-65 (63.0); tarsus ♂ 55-57 (56.0), ♀ 55-56 (55.3).

Range: The coastal desert strip of Angola from Moçamedes to Benguela, presumably intergrading in the south with R.a.sharpei.


(e) *Rhinoptilus africanus traylori* Irwin


Description: The most pallid form. Differs both from R.a. africanus and R.a.sharpei through being generally more greyish above, feather centres stone-grey, with narrow blackish-brown sub-terminal bars; feather edges white with little or no trace of buff. Below whiter, with little if any buff on throat and chest, but streaking similar to that of the nominate form; flanks abdomen and under tail coverts white. Inner webs of primaries and the secondaries somewhat paler pinkish buff. Tail variable, but outermost pair of rectrices white, with or without a brown spot on the inner web; penultimate rectrices largely brown; remainder with whitish tips.

Measurements: Wing ♂ 146-150 (148.3), ♀ 148-155 (153.6); tail ♂ 59-64 (62.0), ♀ 60-65 (63.0); tarsus ♂ 55-57 (56.0), ♀ 55-56 (55.3).

Range: The grasslands of the north-eastern portion of the BechuanaLand Protectorate, from north-west of Serowe to Lake Dow and Lake Ngami and the Makarikari Salt Pan. Birds showing some signs of intergradation have been examined from Murwamusa in the south-central Kalahari, but very large areas remain from which no material has been available for examination.

Specimens examined: BechuanaLand: Masarwanyana Pan, Lake Ngami; Cungera Pan, near Lake Ngami; Xhane, between Odikawe
and Bushmans Pits; Kedia, Lake Dow; Nata, Orapa Well and Murwamusa Pan. Total 9.

Extra-limital Races

Four forms have here to be considered: *R. a. raffertyi* Mearns; *R. a. gracilis* Fischer and Reichenow; *R. a. hartingi* Sharpe and *R. a. illustris* Friedmann. Unfortunately adequate material for a review of this northern group has not been available. Mackworth-Praed and Grant (1952) recognised only *R. a. gracilis* and *R. a. hartingi*, but it would seem that on present evidence that three valid races exist.

White (1953) has discussed the status of *R. a. raffertyi* Mearns which was duly recognised by Friedmann *op. cit.*, but not by Mackworth-Praed and Grant. It seems, however, quite clear that it is a perfectly good form, but unfortunately, I have not personally been able to examine material. On the other hand *R. a. illustris* would appear not to be recognisable. C. M. N. White, *in litt.*, states that he has not been able to judge whether this form differs at all from *R. a. gracilis*, but from inadequate material, regarded them as the same; the type-localities lie in adjacent and similar country, unlikely to produce well differentiated populations.

*(f) Rhinoptilus africanus gracilis* (Fischer and Reichenow)


*Description:* A pygmy race. Mantle and head-top sooty grey, the feathers with narrow sub-terminal black bars and contrasting pale buff edges; nape buff. Below, throat whitish, ranging to rusty buff on chest; abdomen and flanks pale buff, chest-bands equal and narrow. Inner edges to primaries and secondaries cinnamon. Outer tail-feathers variable, but outermost pair always white.

*Measurements:* Wing ♂♂ 129-132 (130.3), ♀ 132; tail ♂♂ 53 (53.0), ♀ 50, tarsus ♂♂ 48, ♀ 47.

*Range:* The dry central areas of Kenya, southwards to about Dodoma, Tanganyika.

*Specimens examined:* Olorgasailie, Nairobi-Magadi road, Kenya. Total 3.  

*(g) Rhinoptilus africanus hartin[g]i* Sharpe

The races of RHINOPTILUS AFRICANUS

From top to bottom:
- *Rhinoptilus africanus traylori* Irwin (Type)
- *Rhinoptilus africanus bisignatus* (Hartlaub)
- *Rhinoptilus africanus sharpei* Erlanger
- *Rhinoptilus africanus africanus* (Temminck) (Neotype)
- *Rhinoptilus africanus granti* W. Sclater

Description: A bright vinaceous cinnamon form. Head-top, nape and mantle a rich pinkish cinnamon, feather edges a paler cinnamon-buff. Below, throat whitish, remainder of under-parts paler cinnamon-buff. Inner webs of primaries and secondaries cinnamon; outer tail-feathers white, and the tail largely tipped with cinnamon.

Measurements: ♂ wing 138, tail 58, tarsus 45.
Range: Somalia east of the range of *R.a.rafftetyi*, south to the Webbe Shibeli, and in the Ogaden in eastern Abyssinia.

Specimens examined: Somalia: Arori Plains, Burao. One specimen examined.

(h) *Rhinoptilus africanus rafftetyi* Mearns


Description: Closest to *R.a.gracilis*, and stated to differ from the red *R.a.hartingi* by being dark brownish grey on mantle. Birds collected between Zeila and Harar are said to be paler and more sandy (? another race).

Range: North-eastern Abyssinia from Harar to the Hawash Valley and the Danakil country, and Zeila, north-western Somalia.

Specimens examined: None.

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REFERENCES


In the latter part of August and the first part of September, 1962, Mr. R. W. Rankine, accompanied by Mr. R. Peek, undertook a short collecting trip to Portuguese East Africa in the relatively unworked coastal forest region lying northwards from Beira to the Zambesi River. Collecting localities included the well-known Dondo forest; a locality on the coast 20 miles north of Beira; the Chineziwa River, 60 miles north of Beira and inland from the coast at approximately 19° 02' S., 35° 12' E., and finally at Lacerdonia and Marromeu on the south bank of the Zambesi River. In all some 260 specimens were prepared on this expedition, though only those of especial interest are reported on in this paper.

Though practically no collecting seems to have been undertaken in the coastal forest-savannah mosaic to the north of Beira, several papers have appeared dealing with Beira itself and the immediate neighbourhood inland to the forested localities at Dondo and Mzimbiti. This latter region received considerable attention earlier in the century and is the type-locality of several coastal forms. This early exploration is attested by the papers of Sheppard (1909, 1910, 1914), Sclater (1911) on the collections of C. H. B. Grant, and latterly that of Benson (1947). Haagner (1945, 1948) discussed chiefly the larger water birds, waders and raptors etc., seen about Beira itself. Included therein are such species as *Aegypius percnopterus* and *Poliohierax semitorquatus* that would seem highly unlikely to occur on the Moçambique coastal plain, being considered by Benson and White (1960) of discontinuous distribution in the more arid parts