

2942 -- 3646

BIRDS

2

4

8-11

2517

Paradise

July 8, 1911.

2942. { Purple Heron. ♂. t. n. e.
July 9. Ardea p. purpurea.
2943. Swallow. ♀. o. n. e. *Hirundo griseopygia*
S. 2972. A flock of these diminutive
swallows, numbering perhaps 20, was feeding
low over a papyrus swamp.

July 10.

2944. *Enneastonus gubernator*
1 2872. Small Shrike with rufous back and light gray crown.
♂ Stomach contents: a green mantis.
2945. Young of preceding. ♂ immature (in barred plumage)
Stomach contents: insects.

Were sitting on the small trees about an abandoned
village site.

2946. A dull gray-brown Finch, with whitish superciliary
Polioptila vulgaris algonensis
line & streaks on crown. ♂. t. e. Bill pale buff,
iris rather dark brown, feet light brownish.

Was sitting perched amid brush, giving a
low, but sweet and varied song. One or two had
been seen a few days previously near Paradise,
and a few more were later noticed about Alba.

2947. *Phyllastrophus eximius orientalis*
A green- & gray Billbird with slightly rufous tail. ♀.
o. n. e. Stomach contained a few insects and some
small seeds as from fruit.

Shot in a patch of forest about midway between
Paradise and Alba, where it seemed to be common.

Aba
July 11.

2948. Goatsucker (*macrodipteryx vexillarius*) ♂ testes slightly enlarged
2949. " " " ♂ testes very slightly enlarged

Between 2 o'clock and daybreak this morning, with the aid of a bright moon, I counted 28 goatsuckers, all of the present species, males predominating. We were marching from Modjan (Maripili) to Djaberet, ^(or Djelini) on the road to Aba, and the majority of the nightjars were frightened from the ground by our approach. In the early evening, on the contrary, they fly about actively, but I have not seen them sit on the ground.

(At Aba a few days later, Alimasi put up a long-plumed male in the afternoon, and it lit on a bough of a small tree.)

Had one taken the same walk in February he would undoubtedly have found the route occupied by *M. macrodipteryx* and *Scotornis*. Of the two species of the interesting genus *macrodipteryx*, *M. vexillarius*.

Alba

July 12. 1911.

Colinus passer concolor

2950. Black Widow bird, ♂. testes slightly enlarged. Stomach contents: small seeds. (moulting into nuptial plumage)

For the past three weeks we have been seeing molting individuals of this species. Some have already acquired complete black plumage. They seem to drop all the old rectrices at once.

Piparia erythrorhynchos

2951. Dusky Swallow with buff throat. ♂. testes much enlarged. Iris dark brown; bill black; feet brownish.

One of a pair of swallows alighting in a small niche in a high vertical cliff, just above a horizontal crack in the rock where there were two cup-shaped nests of mud. One of the nests was taken down the following day, and found to be old and empty; the other looked newer but could not be reached.

July 13.

Indicator indicator

2952. Honey Guide, ♂. testes slightly enlarged. Shot in trees on top of a rocky hill near village of Ibru.

Hirundo pyrrhonotus

2953. Streak-breasted Swallow ♂. t. n. e. Iris very dark brown, bill and feet blackish.

H. pyrrhonotus

2954. Same as preceding. ♂. t. n. e.; skull not quite completely ossified.

Alba

July 13. 1911.

A half dozen pairs or more were flying about the rocky hills near Ibis village, but tho we found many signs of old nests beneath rocky ledges, no occupied nests were located. Perhaps it is not the season, for it was in June (the dry season there) that we saw the nest in Boma. 30 days specimens were secured from a party of 6 or 8 perching on the dry twigs of a small tree jutting out of a steep wall of rock. This never collected till now. this swallow has been observed several times since we left Boma, notably at Kinshasa, Nala, and Dunge.

- Piparia ruficollis*
2955. Dusky Swallow with buff throat. ♂. testis slightly enlarged.
2956. Mate of 2955. ovary slightly enlarged

This is a true rock swallow, found only about the hills. Its flight is rather slow, the birds are silent, and often alight on the rocks, often in very steep places.

2957. A small thrush (*Ruficollis*?) with rufous tail. ♂. testis slightly enlarged. Iris dark brown, bill and feet black. Stomach contents: insects.

Bears a strong resemblance to the female

Aba

July 13. 1911.

of the European Redstart, which visits the hills in the dry season. This specimen was perched on a stump in cultivated land close to the foot of the hills.

2958. ^{*Chamaeloba sp.*} Thrush, black, with white wing coverts and rufous rump and belly. ♂. t. n. e. Iris dark brown. Bill & feet black. Stomach contents: fruit and pieces of a couple of small insects.

A bird of the hills, alights on rocks and trees alike, and sings continually. Its posture is often very horizontal, it stands high on its legs, slowly raising and lowering the tail. Its song is sweet and varied, and the loud has perhaps something finch-like about it, but recalls also the songs of the black thrushes with white wing-coverts (such as Nos 2976 & 2977). For a bird of its size it is wary.

2959. Small brown lark with streaked breast. ♂ tests ^{*Helicocorys modesta*} very small; skull not quite completely ossified. Stomach contents: seeds and remains of very small insects.

Four of these larks were feeding on the stones of a bare, low hill; and when pursued alighted

Alba

July 13, 1911.

on top of stumps in a nearby plantation.
In arising from the earth they sometimes
utter a faint call-note.

July 14.

2960. White-crested Plantain-eater (*Touracus*). ♂. t. n. e.

Stomach contents: fruit. Very common at Alba. ^{*Leucolophus*}

Several times too. I heard the call of the red-crested
Muscophaga coming up from the woods in the
valleys.

2961. Red- & black Weaver (*Pyromelaena*) ^{*flammiceps*} ♂. testes slightly
enlarged (molting into nuptial plumage). A
common bird throughout the whole region. First noticed
molting about June 20 (near Niangara); by July
4 (at Paradjé) some were in full plumage.

2962. ^{*Alcedo*} ^{*merimys pusillus*} A small brown Flycatcher. ♀ immature. Iris dark
brown, bill dusky with base of mandible pale buff,
feet dusky. Sitting in a tree on top of a rocky
eminence near village of Ibr.

2963. Gray Goatsucker. ♂. t. n. e. Iris dark brown,
^{*Caprimulgus trineculatus tristigma*}
rim of eyelids buff, bill brown with blackish tip.
feet dark brownish.

This is the goatsucker whose low weird
voice is heard on the hills at dusk. It utters
a sort of whistled { "coo-hoo" or "coo-hoo-hoo"
or "whow-whow" or "whow-whow-whow"
and repeats it again and again. ~~Less~~ Less often

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Aba

July 14, 1911.

there are four syllables. During the day they rest in sheltered positions on stones. This morning was cloudy, and two were heard calling, flushed, and one of them shot.

2964. ^{*Dendrocygus parasitiformis*}
Greenish Woodpecker with large red crown patch and spotted breast. ♂. testes slightly enlarged. Iris dark red; bill bluish gray with dusky culmen and tip; feet greenish. Stomach contents: some white worm-like insect larvae and pieces of small insects.

2965. ^{*Cinnyris boucardi*}
Sunbird. ♂ immature.

2966. ^{*Myiarchus dybowskii* (Quist.)}
Small gray Weaver with red back and rump, and sides spotted with white. ♂. t. n. e. Iris red, rim of eyelids slightly swollen and purplish pink in color; bill black; feet dusky brownish. Stomach contents: tiny seeds.

2967. ^{*Myiarchus dybowskii*}
Same as preceding. ♀. ovary slightly enlarged. Iris red, rim of eyelids gray; bill black; feet dusky brownish. Stomach contents: tiny seeds.

These little weavers were found in the grass and tilled land at the base of the hills, associating with two other related species (represented in our collection by Nos. 1982 and 2251.) I

2 m have never seen them elsewhere.
(2 seen hopping on and at base of a hill, near Vanderechthovenville. Aug 3, 11)

Uba

July 15. 1911.

2968. Ground Hornbill (Bucorvus) ♂ [Immature] ^{abyssinicus} Scutes very small. Iris dark brown, skin of orbits and throat bluish; bill & feet black. Stomach contents: pieces of beetles and large ants, seeds, and other vegetable material.

One of three that were shown me by a native this morning, as they sat in a tree in a swamp. Their long legs give them a most unusual aspect for hornbills, but their flight is more typical of the family, buoyant, and with the usual alternation of flapping and swooping. Two of them had the skin of the throat blue, the other one red. They went to feed in some cultivated fields, and then in newly cleared land, but were very wary. At a little distance the flight seems noiseless, tho' in rising from the ground they beat their wings loudly.

The following day we saw another, with red throat, in a plantation; and a day later heard ~~one~~ call at dusk, a low, deep, "ho" repeated at short intervals.

2969. Warbler ^{Heliostra flamigaster} with steel blue upper parts, white patches on wing coverts, and buff breast. ♂. t. n. e. Iris very dark brown, maxilla blackish, mandible

Aba.

July 15, 1911.

bluish gray, feet dark bluish gray. Stomach contents: tiny beetles. Was feeding amid foliage of a small tree in a plantation.

July 16.

2970. Small Wood Hoopoe ♀. ovary slightly enlarged. *Scopelogadus olivaceus* ^{minor}
Iris dark brown; bill gray with base black, and corners of mouth yellow; feet black. Stomach contents: small insects.

2971. Creeper. ♀ immature. Iris dark brown; maxilla *Scolecophagus* ^{minor}
dusky brown, mandible buffy gray, feet dark bluish gray.

Came flying across road in ^{the} undulating style of a woodpecker, lit on a small dead tree, and started to climb upwards with all the ease of a nuthatch. The only one I have seen.
(One seen near Saragge Aug 12)

2972. Warbler. ♀ immature. *Hyliota flavigaster*

s. 2969. *Euscoptes gubernator*

2973. Small Red-backed Shrike. ♂ im. Not uncommon about Aba.

Campylorhynchus phoeniceus

2974. Red-shouldered Cuckoo Shrike. ♂. testis slightly enlarged. Stomach contained a small green caterpillar.

July 17.

2975. Small Lark. ♀. o. n. s. Collected on top of a hill, but they feed also in cultivated fields close by.

Aba

July 17, 1911.

2976. ^{Lutholaea clericalis} Small Black Chat with white forehead and wing patches. ♂. t. n. e. Common about Aba, mostly near gardens and other cleared land, but sometimes on hills as well.
2977. ^{Rhiparia refregula} Dusky Swallow with buff throat. ♂. testes somewhat enlarged.
2978. ^{Indicator indicator} Honey Guide (*I. sparrmani*) ♂ immature. (in plumage like that of female, save for a few scattered black feathers on throat).
2979. ^{Indicator minor} Small Honey Guide. ♀. ovary somewhat enlarged. Iris dark brown, orbits dark gray; bill blackish with base of mandible gray, feet greenish.

These two honey guides were collected about a huge rock close to the frontier on the road to Ye. Of the larger species there were three or four; one adult male flying wildly about and calling excitedly. There were two of the smaller ones, hopping ^{silently} about the boughs of trees a little way up the side of the rock.

July 18:

2980. Yellow-breasted Bunting. ♂. testes slightly enlarged. ^{Eurhynchos calurus} Stomach contents: insect remains. Common at Aba.

- 2980 a. *Phoenicurus familiaris* ♀, o. n. e. S.C. small insects & a ^{large} fly.
2981. Warbler with gray back, rusty crown, and pale buffy *Cisticola petrophila*.

Alba.

July 18, 1911.

breast. ♂. testes somewhat enlarged. Irides light brown; maxilla dusky brown, mandible brownish gray, feet pale buff. Stomach contents: tiny insects.

On areas of smooth stone, where grass cannot grow, small accumulations of soil often support spiky plants like pineapple tops, ^(also) bearing red flowers on a central stalk, as well as clumps of a light green vine, pliable but

✕ *Sarcostemma* sometimes a terminal tuft of small white flowers. ✕
fam. *Asclepiadaceae*. no leaves. There are also other plants ^(mostly in places) ^(cactus-like) ^(saururus-like) peculiar to such spots but less striking in appearance, and altogether they form small patches of low dense vegetation, where

hop and skulk these warblers, which occasionally venture out on to the flat rock.

^(Grew on marsh at Van Hook's mill. Song - a musicless trilling effort, something like a)

2982. Gray Goatsucker. ♂. testes slightly enlarged. *Caprimulgus trinitatus tristis* mol. Calling at dawn, was followed up and shot.

2983. Large Gray Cuckoo Shrike ♂. testes very small.

Iris dark brown, bill & feet black.

Stomach contents: a green caterpillar and finely divided insect remains.

^{Thamnolais sp.}
2984. Thrush. ♂.

52958.

July 15, 2985. Falcon (*Accipiter ruficollis* ♀) ovary slightly

1 n

Aba

July 19, 1911.

enlarged. Crop and stomach contained flesh and bones of a weaver bird, identified by its beak.

While on a hill near Ibu's village we saw a pair of these falcons fly by. In another place I saw one sitting at the edge of a pool of water on a rock as tho bathing. The present specimen was shot from a tree.

2986. ^{Mesopicus gottae poliocephalus} Red-rumped Woodpecker. ♂. t. n. e. Stomach contained beetle larvae, and pieces of adult beetles.

2987. ^{Pentholaea senegalensis} Small Black Chat. ♀ immature. Stomach contents: small insects.

2988. ^{Emberiza caesia} Yellow-breasted Bunting. ~~♂~~ ♀ immature. Stomach contents: pieces of a small grasshopper and

(Ajabin-modian) other insects.

July 20.

2989. ^{Chlorophanes aurifrons} Yellow- & green Shrike with orange breast. ♀. ovary slightly enlarged. Stomach contained a caterpillar and remains of insects.

2990. ^{Dendropicus piceilolaemus} Woodpecker. ♀. ovary somewhat enlarged. Iris dark red, bill gray, feet greenish. Stomach contained insect larvae.

2991. ^{Dendropicus piceilolaemus} Young of preceding. ♀ immature

2992. "Flycatcher-Shrike". ♀. o. n. e. Iris dark brown; ^{maxilla} maxilla black, mandible bluish with tip black;

Aba - Faradje

July 20, 1911.

- feet blue gray. Stomach contents: insects.
2993. ^{*Antholaea clericalis*} Small Black Chat. ♂ im. Stomach contents: insects.
2994. Sunbird. ♂. t. e.; skull not quite completely ossified
^{*Cinnyris splendidus*}
Stomach contained tiny insects, but to judge from
the sweet flower-like odor there were
flower juices present as well.

The present specimen was secured near
the village of ^{Madrapili} Maripili, half way between
Aba & Faradje. It occurs at Aba, as does
also the white-breasted sunbird, neither of
them having been seen so far at Faradje.

2995. ^{*Emeoclonus aquilonius*} Small Red-backed Shrike. ♂ immature.
(Madras Faradje) Stomach contained remains of insects.
2996. Red. v. Black Weaver (^{*Plaucokeops*} *Pyromelaena*). ♂. testes
slightly enlarged. Stomach contained small seeds
and other tender vegetable material, as well
as pieces of a few insects.
2997. ^{*Ploceus superciliosus* (Shell.)} Weavers, with yellow front and breast, black
cheeks & throat, brown back wings & tail. ♂.
testes slightly enlarged. Iris dark brown;
maxilla black, mandible light bluish; feet
pinkish buff, claws dark brown. Stomach
contents: seeds and insect remains.

Paradje

July 21, 1912.

Ploceus superciliosus (Shell.)

2998. Same as #2997. ♂. testes very small. Stomach contents: remains of small insects. Iris dark brown, maxilla brownish black, mandible light bluish gray, feet pinkish buff, claws brownish.

A common species of the tall grass, from Niangara to Aba.

2999. Shrike. ^{*Laniarius major*} ♀. ovary slightly enlarged. (Maxilla abnormal)

3000. Kingfisher ♀. o. n. e. (*Haleyon swegalinis*? *cyanocephalus*)
^{*serripes viridis*}

3001. Long-tailed Flycatcher. ♀. o. n. e.

- July 22. ^{*Myiophobus amabilis*} 3002. Rufous crowned Swallow. ♀ ovary slightly enlarged.

- July 23. 3003. " " " ♂ testes " "

3004. " " " ♀ ovary " "

3005. " " " ♂ immature.

These swallows were shot as they rested on the roofs of houses in the post. Nos 3002 & 3 were mates; no. 3004 came later, accompanied by three immature birds, of which no. 3005 was one.

The species has been observed also about the post of Dungu.

(The steel-blue swallow with white throat spot occurs along the Kibali above Dungu.)

Paradise.

July 25. 1911.

3006.

Thrush (*Cosyphus*?) ^{verticalis} ♀. ovary somewhat enlarged.
Stomach contents: pieces of small beetles.

A common bird, but shy. frequenting not only the woods near water but any patch of dense brush available, this specimen having been secured in a hedge of lemon and guava trees in the post. The pleasant song, often loud, but again very low as tho at a great distance. is most frequently heard in the morning and late afternoon. It often resembles strongly, perhaps imitates, the notes of *Turdus pelios*, and I have heard the calls of several other birds reproduced with amazing skill, including those of the hawk *Asturimula*, a cuckoo (*Cuculus*), and a goatsucker (the *Caprimulgus* we collected at Niagara). (Aug 13. Has since been heard to mimic the small white breasted nighthawk, as well as the Goldcrest (*Chrysoceryx marginatus*)).

3007.

Screech Owl (*Aluco*) ♂. t. n. e. Iris dark brown.
Scops alba affinis
rim of eyelids dark brown, beak pale pinkish gray.
claws and scales on feet dusky brownish.

One was seen to fly out of a crevice in rocks near Alba, and today's specimen was

Paradje

July 25. 1911.

among the rubber trees (manihot) of the post,
being mobbed by small birds.

(Second day on road to Vankerschovenville)

July 29.

3008.
3.3696.

Large gray Hawk, with wide crest. ♀. left ovary
Circus cinnascens.
enlarged. right ovary much smaller. Iris dull yellow;
cere
basal half of bill yellow, tip black; feet yellow claws
black. Stomach contents: lizard scales and
pieces of beetles. Shot from a tall tree in a strip
of woods along a stream.

3009. Turtle Dove. ♂. testes enlarged.

This dove is common at Paradje, Aba, and
Vankerschovenville, and was noticed up to a
distance of 6 or 7 hours march from Dungu, on
the road to Paradje. Since a couple of weeks
it has been calling ^{commonly} the male uttering a
series of 5, ^{or 6} low cooing notes, ^{of which the next to last is highest pitched, the final} either from a perch,
or as he walks about on the ground after a
female, lowering his head and swelling the
upper breast exactly as do domestic pigeons.
→ The flight is accompanied by a slight whistling of wings, audible only at short
distances.
The other turtle dove, with black crescent
on the back of its neck, that was so common
and noisy from Niagara to Paradje in
the dry season, is now entirely absent.

In 1912 we first
heard them call
in latter part
of May.

Like the common large pigeon, with
dark crescent on neck, the male now
inflates its crop, making a soft
sound when flying, which is frequently
heard again.

3010. Tiny Warbler. ♀. ovary somewhat enlarged.

With one or two others, was hopping about the branches of small-leaved acacias.

Vanherckhovenville. (Native name Nzoro, from river that flows by it.)

- July 30.
3011. Large streaked brown Shrike with long tail, ♂
Corvinella corvina
t. n. s. Iris dark brown, rim of eyelids and bill yellow; feet dark green. Stomach contents: insect remains.

3012. Same as preceding. ♀. ovary slightly enlarged. Iris dark brown, rim of eyelids and bill yellow; feet dusky greenish. Stom. cont.: insect remains.
3013. Same as preceding. ♀ immature. Stomach contents: insect remains.

Members of a scattered flock of about 10, resting on stumps and trees about a native plantation. Their call is loud and grating, and they did not allow a close approach.

3014. Black & white Widow bird, ^{*Vidua senegalensis*} ♂. t. s.; but skull not quite completely ossified. Crop contained small seeds.

Vanherckhovenville
July 30
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Vankerkhovenville. (= Nzoro)

July 31. 1911.

Calinopasser concolor

3015. Black Widow Bird. ♂. testes slightly enlarged
3016. Small green-backed Cuckoo. ♀. ovary much enlarged
Chrysoceryx blaesi
an egg in oviduct. Stomach contained remains of caterpillars and insects.
3017. Black Weaver with yellow wing coverts and rump.
Euplectes crossinotus.
♂. t. e. Common at V-k-h-ville & on road to Faradje.
3018. Gallinule. ♂. t. n. e. Iris rather dark brown.
Porphyrio alleni.
bill and feet brown with a decided tint of red,
particularly on the tibia and the base of mandible
Stomach contents: small seeds.

Was feeding among a few grasses along the shore of the Nzoro at the post. After being wounded it swam on the water, and then promptly dived.
(According to white officials, as well as natives, a ~~misat~~ has been made in the names of the rivers here. The Nzoro is the river at the post, the Kibali is crossed a half-hour or so to the N.)

Aug 1.

3019. Black-&-white Kingfisher. (*Ceryle*) ♂. ovary slightly enlarged. Stomach contents: bones & scales of fish.
Halcyon leucogaster
3020. Small gray Elaenia with white nuchal mark.
Elaenia leucogaster
♂. testes slightly enlarged.
3021. Gray Flycatcher. ♂. testes slightly enlarged.
Alcedo leucogaster
Common along the wooded bank of the Kibali, at Dunga as well as here, perching on sticks and branches close to the water.

During this visit to Nzoro I met Hippolyte de Mathilde Papij.

Vankerkhovensville. (= MZ010)

Aug. 1. 1911.

3022. ^{*Hirundo nigrita*} Steel Blue Swallow with white throat patch. ♀. o. n. e.

One of a pair alighting on a snag sticking out of the Kibali.

The rufous-crowned swallow also occurs at Vankerkhovensville, and it too, as I have noticed also at Faradje, has a liking for water, often alighting on rocks in the rivers.

3023. Brown goatsucker (^{*nigriscapularis*} *Caprimulgus*) ♂. t. n. e.
Iris dark brown, rim of eyelids light brownish, bill brown with blackish tip, feet brown.

Shot in woods on the bank of the Kibali, after being flushed from the ground.

3024. Red-throated Sunbird, ^{*Chalcoptria senegalensis acis*} ♂ immature.

Aug. 2.

3025. Black Weaver with nape and upper breast orange red.
^{*Pyromelana ansergei*} ♂. t. e. ♂. This dark brown, bill black, feet dark brown. Stomach contained small pieces of insects and vegetable material.

3026. Small yellow-throated Bee-eater. ♂. t. n. e.

3027. Black Weaver with yellow wing-coverts & rump.
^{*Melittopagus pusillus*} ~~*Euphonia*~~ ^{*crassirostris*}

♂. t. e. The birds themselves sometimes sit with the rump feathers overlying the secondaries.

Vankerkhovensville (= Nzoro)

Aug 2, 1911

so as to exhibit the beautiful golden yellow patch.

3028. Red-v. black Weaver (*Pyromelasma*^{paumotuensis}). ♂ t. e. Molting into nuptial plumage. Common, of course, at Vkhville.

Aug 3.

3029. *Myiophobus oculagius* Yellow Weaver with black line thru eye. ♀. o. e. but skull not completely ossified. Stomach contents: insects. Rather common, its peculiar "chirring" note being heard much more often than its author is seen. Their nests are usually hung^{singly} from the ends of the boughs of acacias, at an elevation of 12 or 15 feet, but the great majority are empty.

3030. *Crateropus* sp. Large brown Bulbul with "scaly" plumage on throat. ♀ ovary slightly enlarged. Iris yellowish white; bill black. Stomach contents: insect remains.

In its habits and loud harsh notes it resembles the related grayer species (s. No. 2919), which frequents high grass and scrub on dry ground, while the present species is more partial to the neighborhood of water, haunting for example the wooded banks of the Ribali, and sometimes scolding passing canoes from concealment.

Vankerekhovenville. (At mt Saina, near village of Gaduma)

Aug. 4. 1911.

3031. ^{*Mycozetes bartholomaei*} Large W edge-tailed Starling. ♂. testes slightly enlarged.
Iris orange red.
3032. Red & black Weaver (*Pyromelaena*)^{*flaviceps*}. ♂ im.; t.e. (in full nuptial pl.) Stomach contents: seeds & insect remains.
3033. ^{*Pipra rufigula*} Dusky Swallow with buff throat. ♀. ovary somewhat enlarged.
3034. Same as preceding. ♀. o.e.

No. 3033 had attached her nest to the side of a cliff, where it was securely protected from above by an arched projection of rock, and could only be approached from below to within 11 feet. Externally it was a thin, frail, half-cup shell composed of pellets of mud, but had a thick padded lining, consisting mainly of feathers, but with thin dry strips of vegetable material below. The feathers were principally from fruit pigeons, tho there were to be noticed a few small plumes of grouse, resplendent starlings, and of the swallow itself. Her two eggs, just about to hatch, were white, rather thickly spotted with brown, sometimes slightly rufous, these spots lying thickest in a circle about the large end.

Close beside this nest was an old abandoned one; and a couple of feet away, in a similar

Vankerekhovenville
Aug 4. 1911

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Aug 5.
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Aug 6
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Nankerechehovierville

I believe the hill we climbed was the same as that visited by Boyd Alexander. It was in much the same line as the Gaima proper, but not quite so high. It was, however, to be preferred, for ^{in coming from Nyoko} the ~~the~~ a few steep outcrops of rocks could be made out on the eastern side of Mt Gaima, it was for the most part covered with high grass, scrub, and small trees; and I had already found at Alba, as well as close to the post of Vekiville that the typical hill-birds and mammals preferred bare rocky situations, even the not nearly so high.

We lodged in the village of a chief named Gaduma, and so had quite a long walk before reaching the base of the hill. This ^{ascending} path was bordered by high, dense, cane-like elephant grass, and passed 2 small ^{groups of better} hamlets. Then one began to climb up the rocks. In one place there was still a large patch of cane to be passed a very disagreeable feature, that I had been spared at Alba. It was on these rocky slopes the the fruit-pigeons and white-crested *Puracurus* were eating the fruit of wild fig trees, but I believe that Alexander, like myself, did not care to collect the pigeons. I looked at them, of course, with the glasses, and noticed no difference from the green pigeons of Garadje. *Vinago calva*, of which I had already only too many examples.

The top of the hill was divided into several parts by gullies, the real summit, to

the south, being fairly bare and level, but other parts having ledges, huge blocks of granite, as well as trees and brush, so that I found the shy birds difficult to approach.

Unfortunately I could only ascend the hill twice, and my second trip was marred by the effects of some canned lobster, eaten with the Pice Nieberding, who happened to be also at Saduma's. A third visit was paid to the lower rocks, for the white-rumped swifts.

The first morning we went up in a dense fog, but when this had cleared the view from the summit was very beautiful, as it always was in these regions if one could only get up a little above the level of the monotonous scrub. Off toward Ngoro, and ~~Uganda~~ were great numbers of green hills, while closer by, low down were low rocky eminences, and groups of native huts standing in the midst of their plantations. Turning in the other direction one could follow the winding ^{water}-bordered silver course of the Kibali, which has a few more hills on its left bank.

The aloes and other rock-loving plants were much the same as at Aba. I am surprised that Boyd Alexander does not mention the baboons, of which we found a band, very wary, on each visit, nor the *Haplorhina*.

Gaima is of course one of the principal

features of the landscape when viewed from the higher places near Bangura's, and still looks pretty large from the hill at Piaga's.

Long after my visit I was told by Matari and others that there was a cavern, or caverns, somewhere in the vicinity, which served as a refuge for the Mambo in their conflicts with the troops of the Congo State.

In Sept 1912 Monsignor Van Schoote told me that he had been to the top of the Gaima, starting from Baduma's, the natives having previously cut him a path. He took observations with an aneroid, he said, besides measuring "hypsomètriquement". Baduma's village was found to be at 662 meters above sea-level, and the top of the hill 1096 m, making the relative height 434 meters, which ^{seemed} really seems to me greatly exaggerated. (But he may well have been right.) Alexander gives the height as 400 ft. only, but I should not object to another hundred feet.

The highest hills near Aba I estimate at 350 feet, ^{Gungu N of "Saramba" at 300-350 ft.} and Namambula, NW of Paua, at 600. The highest hills seemed to me those between mamamama and Bafwababa. The road only goes over 5 or 6 low rises ^{up} at the range and the dense forest prevents me from seeing much, yet as viewed from mamamama they appear at least 650 ft high. All this is of course estimated, from comparisons of large trees growing on the slopes, from shot-gun ranges, and from looking about while climbing.

The hills at Saramba, Aba, and Vankeerckhove are all granitic. Namambula has a ridge of gneiss across its top, and is probably composed inside of the same material. boulders of which are to be seen near Mamamama

Vanhookhovenville:

Aug 4. 1911.

position, the mud shell of a new nest had just been completed, one of its builders coming with a feather as we watched.

[The straggled swallow was seen near the post of V. hookhoven, as well as near Cairns, where I actually shot one but lost it in the cane-grass.]

3035. Ibis. ~~testes~~ ^{testes} slightly enlarged.

Aug 5. ~~Hagedashia hagedash~~

3036. Rail (*Corethraura*) ^{*Corethraura pulchra*} testes slightly enlarged.

Shot while walking on the stones in a little wood-bordered mountain brook. 2 of one sit very still to await them, they are not very shy; a female was observed at very close quarters a few minutes after, and as she was too close to fire, I thought to frighten her further away. At the first stir, however, she darted back into the woods. To judge from their notes, they must be ^{extremely} common here.

Aug 6. 3037. Small Streaked Kingfisher. ♀. o. n. e. (*Haleyon chelintii*)

3038. Large Wedge-tailed Starling. ♂. testes somewhat enlarged. ^{*Onychogathus hartlaubii*} Stomach contents: a green fruit as large as an olive and with a large stone. Shot on the same large dead tree as no. 3031. The call, heard at a distance resembles slightly the peep of a pullet.

^{*Phanuloxia sp.*}

3039. 5.29.58. Thrush, black, with white wing coverts and rufous rump & belly. ♂. t. n. e. Stomach contents: fruit

Vanderkloofville (= Nzoro)

Aug. 6, 1911.

of a wild fig-tree (*Ficus*). Rather common on the rocky hills, at it was at Alba.

3040. Red & black Weaver (*Pyromelaena*) ^{flavimicra} ♂. t. e.
3041. ^{*Empidonax*} Warblers, with gray back, white superciliary line & wing bars, rufous rump, and white belly. ♂. t. e. Iris dark brown, bill black, corners of mouth pale yellow, feet bluish gray. Stomach contents: insects.

Rather common, especially about the high cane-like grass known here as Baka (*Matita* in Kingwana). The song, given by the male from the top of a small tree, consists of half a dozen short notes, and is repeated at short intervals, but is not particularly musical.

3042. Thrush (*Cossyphus*) ^{*verticalis*} ♀. o. e. Stomach contents: 3 hard stones from fruit, remains of insects and a tiny millipede.
3043. Black Swift with white throat & rump. ♀. ovary ^{*Microperis caffer streubeli*} slightly enlarged.
3044. Same as preceding. ♀. ovary slightly enlarged.

There were 2 pairs of these swifts flying about some huge isolated boulders at the base of the hills. There was an overhanging ledge, which bore on its under surface a couple of old nests of streak-breasted

Vanderkroonville (= Nzoro)

Aug. 6. 1915

swallows, but I believe that a narrow horizontal crack was more probably their retreat. (One of these swifts was noticed at Aba).

3045. Coly. ♂ testes enlarged.

Colius n. leucogaster

3046. " ♂ " "

3047. " ♀ ovary "

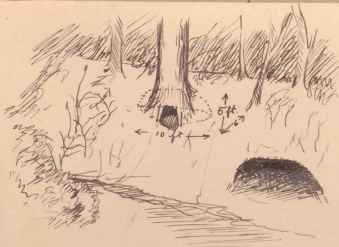
3048. " ♀ " somewhat enlarged.

Aug. 7.

3049. " ♂ testes much enlarged.

Stomachs of all 5 contained earth.

These colies were captured by native in a small cave on the steep bank of a wooded ravine. Its entrance opened between the roots of a tall tree, and was large enough for a man to crawl into ^{on} hands and knees. The inner chamber, directly beneath the tree, measured



a fairly level floor
h. The earth was
o. Here the colies,
eat the earth, and
entrance is framed
to size, and at the
piece of cloth, that
ing the exit. A
birds enter, and
practiced in the

daytime, the birds do not come there to sleep.

Vanderkroonville (= Nzoro)
Aug. 6. 1918

swallows, but I believe that a narrow horizontal crack was more probably their retreat. (One of these swifts was noticed at Aba).

3045. Coly. ♂ testes enlarged.

Colius n. leucogaster

3046. " ♂ " "

3047. " ♀ ovary "

3048. " ♀ " somewhat enlarged.

Aug. 7. 3049. " ♂ testes much enlarged.

} Stomachs of all 5
contained earth.

These colies were captured by native in a small cave on the steep bank of a wooded ravine. Its entrance opened between the roots of a tall tree, and was large enough for a man to crawl into ^{on} hands and knees. The inner chamber, directly beneath the tree, measured approximately 10 feet x 6, with a fairly level floor and domed roof, some 5 feet high. The earth was a stiff red clay, free of large stones. Here the colies, as well as other birds, come to eat the earth, and are captured as follows: The entrance is framed, ^{inside} with green branches to reduce its size, and at the top of this door is attached a piece of cloth, that can be lowered suddenly, closing the exit. A naked black sits inside, the birds enter, and he shuts the opening. This is practiced in the day time, the birds do not come there to sleep.

Vankerschovenville (= N2040)
Aug. 7. 1911.

by pigeons is said to exist up on the mountain.
I asked why they¹ did not fear the man inside,
but they replied that the darkness prevents
them from seeing him.

(For the eating of earth by doves, see no. 3308.)

Pyrocephalus rubineus

3050. A brown-backed Thrush-like bird, with white underparts,
52871. spotted on the breast with brown. ♂. testes somewhat
enlarged. Iris bright brown; mandible and tip of
maxilla light blue-gray, rest of maxilla blackish,
feet pale flesh color. Stomach contents: a caterpillar
and 2 winged termites

3051. Mate of preceding. ♀. o. e. Stomach contained
insect remains, esophagus 2 winged termites.
Secured in damp woods along a brook. They
call loudly very early in the morning, but are
seldom heard at other times of day.

Aug 8.

3052. Sunbird with green back, gray belly, and metallic green
head. ♂. ^{Cyanometra verticalis viridiflascens} testes much enlarged.
3053. ^{Carpodacus sp.} Warbler ♂. testes somewhat enlarged.
53041.
3054 " ♂. " slightly " Stomach contained
pieces of a small millipede.

Vanherckhovenille (= Nzoro)

No. 3055. (Note - Niangara, June 9. 1913) 2 young of this hawk (*Accipiter*), with tails not fully grown, were brought by natives about a week ago, and are being kept alive by an agent. Their plumage is light gray, with bars below, and black throat-stripe, just like adults, and they utter continually the low whining note.

three, syllables.

Junco phaeocephalus

3061. Small Gray Woodpecker. ♀. o. n. e.

3062. Small Green-backed Cuckoo. ♂ testis somewhat enlarged

Chrysoceryx klasi

Stomach contents: remains of caterpillars and a bug.

Often heard calling. The larger yellow-breasted

"*Goliardus*" has never been heard at Faradje.

(One afterwards heard at Faradje - in October)

Between Niangara and Dungen, in June, the notes of only two reached my ears.

3063. *Sitagra taenioptera*.
3064. Yellow Weavers. with black face and throat. ♂.

t. e. These weavers were common at Vanherckhovenille, and in some papyrus on a little island in the Vele, ^{on Aug. 9.} two of their nests were found, containing each 2 eggs. One nest and its set of eggs has been preserved & labelled No. 3063. Today, on the road to Faradje, more nests were found in papyrus bordering a stream. The eggs, of which 4 sets of 2 each were found, were all incubated, and so only one egg and a nest were preserved (labelled No. 3064)

Vankerkhovenille (= Nzoro)

Aug 10. 1911

3060. Mate of no 3059. ♀. o. n. e. Stomach contents: a small green caterpillar, a beetle, and other insects.

These birds search the foliage of trees, often acacias; and are apparently rather common about Vankerkhovenille and Faradje. The long-drawn sibilant notes, which seem to serve as a song, are of two, or sometimes three, syllables.

3061. ^{*Junco phaeocephalus*} Small Gray Woodpecker. ♀. o. n. e.

3062. Small Green-backed Cuckoo. ♂ testes somewhat enlarged
^{*Chrysoceryx klasi*}
Stomach contents: remains of caterpillars and a bug.

Often heard calling. The larger yellow-breasted

"Tsiotocoli" has never been heard at Faradje.

(One afterwards heard at Faradje - in October)

Between Niangara and Dunge, in June, the notes of only two reached my ears.

3063. ^{*Sitagra laenoptera*} Yellow weavers with black face and throat. ♂.

3064.

t. e. These weavers were common at Vankerkhovenille, and in some papyrus on a little island in the Vele, ^{on Aug. 9.} two of their nests were found, containing each 2 eggs. One nest and its set of eggs has been preserved (labelled no. 3063). Today, on the road to Faradje, more nests were found in papyrus bordering a stream. The eggs, of which 4 sets of 2 each were found, were all incubated, and so only one egg and a nest were preserved (labelled no. 3064).

Paradje

Aug 12. 1911.

3071. *Neoschalis capistrata*
Weaver. ♀. o. much enlarged.
52639
2724

Was hopping about the branches of a tree in such a fashion as to suggest strongly a titmouse, especially when its colors are taken into consideration. Indeed

the first one I saw at Dunge I took for a titmouse.

3072. *Amblyospiza* (colored like *A. capitalba*, but larger. W. 92.5 T. 70.)
White-fronted Weaver (*Amblyospiza*) ♂. t. e.

Near the post of Paradje I have never met with this weaver. On the road to Dunge, however, a few were seen about papyrus swamps, and No 3072 was shot some 10 miles south of Paradje, where there is much of the ^{tall} candlelike grass known here as Baka. About Medje, it will be remembered, their nests were always placed in the same kind of grass.

Aug 11.

3073. *P. interamblyspiza*
Partridge. ♀. ovary slightly enlarged. Crop contained termites (not winged) and pulp of fruit.

Aug 13.

- Hirundo smithi*
3074. Rufous-crowned Swallow. ♀. ovary slightly enlarged.

Aug 14.

3075. Mate of No. 3074. ♂. testes slightly enlarged.
3076. Sparrow. ♂. t. e.; but skull not quite completely ossified. *Passer griseus* Not numerous in the vicinity of Paradje.

Aug 15.

3077. Goatsucker (*M. vexillarius*) ♀. ovary somewhat

Paradjie
Aug. 17. 1911.

of nests that contain no eggs. These empty ones, however, are usually of poorer construction, often partly transparent, while all the nests are placed at a height of 8 to 10 feet above the water. Those suspended in papyrus-tops have generally an outer network of fibers from papyrus, but internally are composed of grass. It is almost unnecessary to describe their form, for it is that of a typical weaver's nest, the entrance pointing downward, without prolonged spout.

As far as I have seen, the set is invariably two, and while the eggs in different nests differ from brown to light green (spotted with brownish), those in the same nest are alike. Two nests and their complement of eggs were collected today.

Aug. 18.

Colaptes auratus sp.

3085. "Papyrus Bird". ♂ t.e. Stomach contents: small insects.

3086. " " " ♂ t.e.

3087. " " " ♀ ovary slightly enlarged (Mate of No 3086)

Very common at Paradjie, heard also near Alba.

Cathartes aura sp.

3088. ♂ Large brown Bullbul with "scaly" plumage on throat. ♂

S. 3030.

testes somewhat enlarged. Stomach contents: fruit and pieces of a small millipede.

Paradise
Aug 19. 1911.

the north about the middle of July.

3094. ^{*Paradisiphona viridis*} Paradise Flycatcher. ♀. o. n. e. (molting). Iris dark brown, bill blue with black tip, rim of eyelids and feet blue.

3095. Large yellowish Weaver. ♂. t. e. Crop and stomach contained maize and ants. Nesting in numbers on trees along the Dunga. During last dry season, these trees were completely deserted, and bore only old ~~abandoned~~ nests, whereas, in the Oturi

The nests, many of which are sometimes 4, and sometimes 5, are sometimes in the same tree, and sometimes in the same hole.

- I believe this species nests all year round. [With this number (3095) one labelled "Island in the Dunga, close to the port, Sept 20-30, 1911"]
3096. Red-wattled Flycatcher. ♀. o. n. e. The female

^{*Platysterna cyanera myzomela*} of this flycatcher in flight sometimes beats her wings noisily like the male.

3097. ^{*Cossyphastictalis*} Cossypha, ♂. testes somewhat enlarged. Stomach contents: insect remains.

3098. ^{*Hirundo smithi*} Rufous-crowned Swallow. ♂. testes somewhat enlarged.

3099. " " " ♂ " slightly "

- Aug 20. 3100. " " " ♂ " " "

3101. Heron. ♂. testes very small. Stomach contents: Ardea p. purpurea fish.

- Aug 21. 3102. ^{*Euscelactus quinquator*} Small Red-backed Shrike. ♂. t. n. e. St. cont.; insects.

3103. ^{*Hirundo griseocapilla*} Swallow. ♂. t. n. e.

3104. ^{*Paradisiphona viridis*} Paradise Flycatcher. ♀. o. n. e.

Faradji

Aug 25. 1911.

3115. Partridge ^{*P. ictyophrynus*} ♂. t. e.
3116. ^{*Sitagra taenoptera*} Yellow Weavers with black face & throat. ♂. t. e.
3117. ♂

3118. Black & white Widow-bird. ♂. t. e. skull not quite completely ossified. *Vidua serena*

3119. Same as preceding, ♀. ovary much enlarged; skull not completely ossified. Crop filled with small seeds. *Malacostes polio. caitharocanthus*
3120. Large yellow & green Shrike, with gray crown & cheeks. ♂ immature. Stomach contained a small millipede and a bee.

Aug 26.
3121.

Hawk (*Polyboroides*) ♂. testes not enlarged. Irides *Gymnogyps typicus*. blackish brown. cheeks yellow, cere and base of mandible whitish, horny part of beak black. feet bright yellow. claws black. Stomach contained 3 young colies (*C. leucophthalmus*). *nigricollis*, which must have been taken from the nest, for their primaries, etc. were still enclosed in sheaths.

Shot along the river above the post, where it alighted in leafy trees, seeking concealment in the foliage. Its tarsal joint could be bent a little way backwards. The supraocular shield was very small.

This strange long-limbed bird of prey was observed 3 times in the vicinity of Medje, once

Paradise

Aug 28. 1911.

3124. ^{Cinnyris cupreus} Bronzed Sunbird. ♂ Immature. Testes much enlarged

Aug 29. 3125. ^{verticalis} Thrush (Cossyphus) ♂. testes somewhat enlarged.
Stomach contents: a blue berry, and remains of small beetles.

3126. ^{verticalis} Thrush (Cossyphus) ♂ Immature. Stomach contained insect remains and seeds (of fruit?).

3127. ^{Hyphantornis} ~~Yellowish~~ ^{ocularis} Weaver, with black throat & line thru eye. ♂ Immature, testes slightly enlarged. Stomach contained seeds & insect remains.

Indicator indicator
3128. Honey Guide. ♂. t. n. e.

Nos. 3122 & 3. This pigeon, ^{Streptopelia semitorquata} has at least four different types of notes: 

1) Most characteristic, loud cooing, repeated over and over. "Coo coo, cu-cu coo coo."

2) A shorter performance, also oft repeated.

"C-c-c-coo, coo coo"
_{Hoarse, low. Louder}

3) A low, hoarse protracted cooing sound, sometimes repeated, usually uttered when two are together - probably connected with courting.

4) A hoarse "Kääaaa."

3131. Small Widow bird (^{arenaria} Vidua) ♀ o. e.; but skull not completely ossified.

3132. Pipit (^{crossus} macronyx). ♂. testes somewhat enlarged. Stom. cont.: insect remains.

Paradise

Aug 28. 1911.

3124. ^{Cinnamomum} ^{aurifrons} Bronzed Sunbird. ♂ immature. Testes much enlarged.

Aug 29.
3125. ^{verticalis} Thrush (Cossyphus) ♂. testes somewhat enlarged.
Stomach contents: a blue berry, and remains of small beetles.

3126. ^{verticalis} Thrush (Cossyphus) ♂ immature. Stomach contained insect remains and seeds (of fruit?).

3127. ^{Hyphantornis} ^{ocularis} Yellowish Weaver, with black throat & line thru eye.
♂ immature, testes slightly enlarged. Stomach contained seeds & insect remains.

3128. ^{Indicator} ^{indicator} Honey Guide. ♂. t.n.e.

While we were in a clump of trees, along a swampy brook near the post, this bird came in and began to call loudly, keeping always about a tree where I had noticed a hive of bees a few minutes before.

3129. ^{Emmusa} ^{lepidus} Green and gray Warbler with chestnut throat and shoulder patches. ♀ imm. Stomach contents: insect remains.

3130. Same as preceding. ♀. ovary somewhat enlarged.
Irides brownish red. Stomach contents: insect remains.

3131. ^{serena} Small Widow bird (Vidua) ♀ o. e.; but skull not completely ossified.

3132. ^{Croesus} Pipit (Macropygia). ♂. testes somewhat enlarged.
Stom. cont.: insect remains.

Faradje

Aug. 30. 1911

3138. Goatsucker. ♂. t. n. e. Stomach contents: a dung-
Coprimelgus natalensis chadensis
beetle & many winged termites.

Aug. 31.

3139. Goatsucker ♂. t. n. e. Iris rather dark brown,
Coprimelgus natalensis chadensis
rim of eyelids light brown, bill brown with blackish
tip, feet buff. Stomach contents: winged termites

3140. Goatsucker. ♂. t. n. e. Stomach contents: many
Coprimelgus natalensis chadensis
winged termites, 2 beetles, & 2 bugs.

3141. Goatsucker. ♀. ovary slightly enlarged. Stomach
C. n. chadensis
contents: winged termites and a beetle.

These goatsuckers were shot at dusk while
flying in numbers about a termite hill whence
the winged individuals were taking flight. mingled
with them were also long-tailed goatsuckers
(*Scotornis*). With the exception of a young bird
(no 2855) the species is new to our collection.

3142. *Estrilda subflava*
Weaver. ♂. testes somewhat enlarged.

3143. " " " ♀. o. n. e.

members of a flock about a dozen in number,
feeding on the ground amid weeds near the post.
The second time the species has been observed at
Faradje.

Sept. 2.

3144. Pipit (*Macronyx*) ^{crassus} ♂. testes somewhat enlarged.
Stomach contents: a small millipede & insects.

Dr. W. Schubert was at Faradje at this
time, staying till Sept 3. at least

Paradise
Sept 4 1918

contents: 3 berries and pieces of an insect

3151. Dark Slaty Flycatcher. ♂. t. n. e. *Melanerpes formicivorus*
3152. Black Widow bird. ♂. t. e. Stom. cont.; seeds.
3153. " " " ♂. " " " " "

With the evident purpose of displaying their charms to the females, at this season the males make long slow flights over the grass, well-sustained and direct, but not as a rule more than a few yards above the tops of the vegetation. During these performances the tail is spread, but owing to its peculiar



folded condition, is expanded in a vertical, instead of horizontal plane. The appearance of the bird during such a flight I have tried to express by a silhouette, all the more appropriate for its black plumage. When speed is their aim, they are not encumbered by their long tail, but shut it tightly, and proceed with great rapidity.

3154. Thrush (*Cossyphus*) ^{verticalis} ♂. testes somewhat enlarged.
Stomach contents: remains of small insects.
3155. Thrush (*Cossyphus*) ^{verticalis} ♀. ovary slightly enlarged.
Stomach contents: fruit and a small hairy caterpillar.

Paradise

Sept. 4. 1911.

and still faster as they die away. Meanwhile the male, who is making them, sits on a stalk of papyrus; but as he finishes (or sometimes just before finishing) he flutters off into the air (but keeping always amid the papyrus), where with hovering flight and tail pointing directly downwards he gives 4 or 5 loud wing beats, and then makes for a new perch, often to recommence his "song" at once. When not engaged in singing they usually keep well concealed in the tangle of old dry papyrus, saw-grass, and other aquatic vegetation that commonly fills a papyrus swamp waist-high, or even shoulder high. From this concealment they occasionally utter a single chit, or cluck, or more rarely a single loud clap of the wings.

3159. Black Weaver, ^{*Colinus pectoratorius*} ~~*macroura*~~ with yellow wing coverts & back. ♂.
(in brown plumage) t. n. e.; but skull completely ossified in spite of its apparently immature plumage.
Stomach contents: small seeds. The adult males, in black plumage, while perching, often show plainly the patch of downy white feathers in the middle of the breast.

Faradje
Sept. 4, 1911.

contained tiny seeds.

3167. *Drongo* *Shrike* ^{*Dicrurus adsimilis divaricatus*} ♀. o. n. e. Stom. cont.; insects.

3168. ^{*Lybrius aquatorialis*} Red- & Black Barbet. ♀. ovary somewhat enlarged

Stomach contents: red peppers (chewed in pieces)

3169. Snipe (*Gallinago*) ^{*indistincta*} ♂. t. n. e.

3170. Sandpiper (*Gotamus*) ^{*Rhyacophilus glauco*} ♂. t. n. e.

3171. Sandpiper (*Actitis*) ^{*hypoleucos*} ♂. t. n. e.

3172. Bronzed Sunbird ♂. t. e. *Chrysomitris cupreus*

Sept 8. Indicator indicator

3173. Honey Guide ♀. o. n. e. Uttered notes like those of a male.

3174. ^{*Melanerpes nigerimus* (Vieill.)} Black Weaver (*Ploceus nigerimus*) ♂. t. e.

Stomach contents: seeds & insects.

Uncommon at Faradje.

3175. Rufous-backed Bunting ^{*Emberiza affinis*} ♂. Immature.

Stom. cont.; remains of insects. Iris dark

brown; maxilla dark gray, mandible blue

gray; feet light pinkish gray. (note Oct 1912 - This

3176. ^{*Pentholera clivicola*} Small Black Chat. ♀. o. n. e. skull not quite

completely ossified Stom. cont.; small insects

3177. Large Warbler, with dusky olive back, and ^{*Brachypterus caespalis*} white breast heavily spotted with dusky. ♂.

t. e. Iris dark brown; bill mostly black, but

bluish gray beneath mandible, feet brownish.

Paradise
Sept 8, 1911.



gus and grass.

thin shells,
won, as well as

larger spots

the larger end.

method of attaching

and one of last

side-binding

as well as

present season,

as the nest

2 - This species is
found in the high grass
land or "matete" of the
savanna, Aug. 11, and

e. *Metacila vidua*

Callas nyanzae

no 3181

S. t. n. c.

Apparently absent in the middle of the
rainy season; this is the first I have seen for
many months, perhaps a migrant from the
north.

3185. Blackish ^{*Chalcornitha senegalensis* acb} Sunbird, with large red breast patch. *S. t. n. c.*
3186 " " " " " " " " *S. t. n. c.*

Paradise

Sept 8. 1911.

had been gathered from the papyrus and grass. It contained 3 eggs. with very thin shells, white, finely speckled with brown, as well as spotted with dark brown, these larger spots being most abundant about the larger end. This must be the usual method of attaching the nest, for I found an old one of last year that still retained its side-binding about a dry papyrus stem, as well as an abandoned nest of the present season, supported by two stalks just as the nest I have described. (note - Nov. 1912 - This species is occasionally observed in the high grass known as "bake" or "matete". Thus I have heard it on the side of a hill at Sankerekenville, Aug. 11, and near Paradise, Nov. 1912.)

3182. Black- & white Wagtail. ♂. t. e. *Motacila alba*
Sept 9.
3183. Flycatcher. ♂ immature. *Batis bellae nyangae*
3184. Bee-eater (*Merops nubicus*). ♂. t. u. e.

Apparently absent in the middle of the ^{spring} (dry) season; this is the first I have seen for many months, perhaps a migrant from the north.

3185. Blackish Sunbird, ^{*Chalcornitha senegalensis* acb} with large red breast patch. ♂. t. m.
3186 " " " " " " " " Imm."

Paradise
Sept. 10. 1911.

3194. Drongo. ♂. t. n. e. ^{*Dicourus assinioides divaricatus*} When a couple of these drongos make up their minds to sing they put forth only a most disagreeable mixture of creaking, metallic notes ^{ at Sangha, in Apr. 1912, ♂ and drongos imitate other birds }
3195. Spotted Papyrus Bird. ♂. t. e. ^{*Bradypterus calpealis*}
3196. Little Papyrus Bird. ♂. stomach contents: insects ^{*Bradypterus abyssinicus*}. Both the species represented by Nos 3195 & 3196 have ossified tendons in the legs just above the tarsal joint; but in the gray papyrus bird, ^(*Calamocichla nitrostris*) like No. 3181, etc., this hardening of the tendons is lacking.
3197. ^{*Tarpophanes pinnatus*} Paradise Flycatcher. ♂. t. n. e.
3198. ^{*Quercus cardinalis* (Hartl.)} Brownish Weaver with red head. ♂. t. e. Iris dark brown, bill brownish, feet buff.
3199. ^{*Numida stylorhynchos major*} Guinea Fowl, ♀. o. n. e. Crop contained a ^(Oleusine) great deal of dwarf millet ("malu") not yet ripe, some pieces of tubers, and several large black ants, of the termite-hunting kind.
3200. ^{*Oxyphantes baglafecht* (Vieill.)} Green & yellow Weaver with black cheeks. ♂ immature, testes slightly enlarged.

Sept 11.

3201. ^{*Pyromelana anserina*} Black Weaver, with red crown and upper breast, and upper back yellow. ♂. t. e. Stom. cont.: greenish seeds.

Paradise

Sept 12. 1911.

woods, but never in the dryer, open places, nor about the post.

- 3212 5 small Blue-Black Weaver, ♀. ^{Hypochaeris chalybeata?} ovary somewhat enlarged; skull not completely ossified.
- 3213 " " " " " ♀ " " "
- 3214 *Picus cardinalis* Small Brownish Weaver with red head. ♂ testes enlarged
- 3215 *Picus cardinalis* " " " " ♂ testes somewhat enlarged
- 3216 *Picus cardinalis* " " " " ♂ " " "

Rather common in the high grass, of which they eat the seeds.

- Ploceus superciliosus* (Shell)
3217 Yellow breasted Weaver, with dark green back, & cheeks
s. 3220 & throat black. ♂
3227.



His nest was built in a very conspicuous position, on an almost leafless bush, at a height of six feet. Roughly oval in shape, it had a small round entrance on one side, high up, and was woven smoothly of fibers stripped from some grass or other plant that was covered with short hairs. But the softness thus given to the structure was evidently not enough, for the bottom of its interior was lined with a material closely resembling thistle-down, making the softest of beds for the reception of the three

Paradji

Sept 16. 1911.

yellow on inner border; culmen dark brown, rest of bill as well as lores and feet greenish yellow. Stomach contents: a minnow.

Shot at 5 PM, while flying up a brook from the river. Twice before (yesterday evening and this morning) it had been seen proceeding in the same direction.

3224. ^{Schoenicola apicalis} Brown Warbler with long and wide tail. ♂. t. e.

Iris grayish brown; maxilla black, mandible bluish gray, feet brown. Stomach contents: insects. There are ossified tendons just above tarsal joint, as in nos 3195 & 6.

A bird of damp meadows, where the grass is not very high. From time to time ~~with drooping tail,~~ they fly high in the air, making perhaps a slight noise with the wings, and then coming down to rest on an exposed stalk of grass, or a small tree. From such perches they utter a rather ^{but metallic} weak, "cheep, cheep, cheep, cheep,"

Sept 17.

3225.

Warbler ♂. t. n. e. Iris dark brown, bill dusky ^{Acronyhalus ochroleucus} brown, slightly greenish along edges of both mandibles, lower mandible pinkish at base, feet light grayish brown. Shot in the rank grass along a creek.

Garadje

Sept 21, 1911.

3237. *Diurus* ^{*Diurus adimilis divaricatus*} *Drongo*. ♂. t.n.e. Was eating a large moth, holding it beneath his foot and pulling at it with his beak. He was even seen to take a short flight, grasping the moth with one foot.

3238. Gray Plantain-eater (*Schizorhis*). ♂. t.n.e. ^{*Schizorhis*}
Stomach contents: fruit & pieces of leaves.

Sept 22.

3239. Snipe (^{*rusty*} *Gallinago*) ♂ t.n.e.

3240. Ruff. ♂. t.n.e. *Philomachus pugnax*.

Sept 24.

3241. Snipe (^{*gallinago*} *Gallinago*) ♂ t.n.e.

3242. Ruff. ♂. t.n.e. *Philomachus pugnax*.

3243. Long-tailed Goatsucker (*Scotornis*) ♂ t.n.e.

Stomach contained remains of Coleoptera, including 2 small dung beetles. (This species is just beginning to alight on roads at dusk.) ^{*Subietta brachyura*}

3244. Short-tailed Warbler. ♀. ovary somewhat enlarged

3245. ^{*Myiophobus montezini*} ~~X~~ Gray-backed Weaver, with breast brown, spotted with white. ♀. ovary somewhat enlarged.

S. 4265

On a bough, 7 feet above a small pool of water, in some swampy woods, was a large mass of old dry leaves, almost certainly a deserted coucal's nest, with an entrance at one side. ^{Within this,} On a living of matted hair and a few snake scales, ^{apparently} procured from the excrement of some carnivore, this weaver had laid her 6 pure white eggs.

Paradji.

Sept. 30. 1911.

3253. Least Bittern. ♀. ovary somewhat enlarged.
Ixobrychus exilis.
Stomach contents: a tiny fish & 2 large spiders.
Shot at sundown, as it flew up from a
cleared area in a papyrus swamp, where it
had been noticed the day before, at the
same hour.
3254. Black Ptilinopus with white wing patches. ♂. t. n. e.
Melaniparus niger leucomegas
Iris dull yellow, bill black, feet very dark bluish
gray.
3255. Same as preceding. ♂. t. n. e. skull not quite com-
pletely ossified.
3256. Sandpiper. ♂. t. n. e.
Acrocephalus achironobaeus
3257. Warbler. ♂. t. n. e. } Collected on same spot as
3258. " ♀. o. n. e. } No 3225.
3259. Buff. checked Warbler. ♂. t. testes slightly enlarged.
Cisticola e. erythrops
3260. Bronzed Sunbird. ♀. o. e. *Amnyia cupreus*



Her penile nest, with lateral
door, was composed of strips of
dry grass and similar vegetable
material, and lined with
soft vegetable down, being
suspended from a *Bauhinia*
bush, about a yard from
the ground. It contained two eggs, of very

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Oct 4, 1911.

3268. ^{*Acridopodes* sp.} Green- & gray Bullbul. ♂ t. e.
3269. Crested Wood-shrike (*Prionops*) ^{*concinata*} ♂ t. n. e. Stomach contents: insect remains. Bill black, corners of mouth and circumocular wattle yellow, iris light gray, feet reddish orange, claws gray.

A bird of forest, sometimes coming down low so that the snap of its beak is audible while feeding, but usually frequenting the higher trees in flocks of 6 to 10, which are difficult to follow when alarmed. I

have heard them give low hoarse notes. Our Lolo guide, speaking in Bangala, called them "ndege nahopi".

3270. Green- & gray Bullbul with rufous tail. ♀ imm.
32947. ^{*Stictecheilus*} ♂ t. e. (a forest bird, of rufous coloration, with wide bill)
3272. ♀ immature. (^{*Oleka syndactyla woodhousei*} " " , olive & yellow, with rufous tail)
3273. Wagtail, with gray back, pale yellowish breast, ^{*Monticola cinerea*} yellow tail coverts, and very long rectrices. ♀ imm. Shot along a brook in forest.

(The common yellow-breasted wagtail, with gray crown, was first seen here this season on Sept 27.)

3274. Dragon. ♂ t. n. e. Stomach contents: 3 small *Apaloderma n. narina* caterpillars, & insects (beetles, a bug, etc)

Paradje

Oct 5, 1911.

rhythm, sounding in fact as the two birds were calling at once, and having a little of the rolling quality of *Corythoila*.

3281. Large white-rumped Swift (*Chaetura*) ♀. o. n. e.

A forest-loving species, not to be seen near the post. ^{W. Sharpei}

3282. Owl (*Bubo lacteus*) ♂. t. n. e.

One of a pair roosting in a patch of forest. They were not at all shy, tho the trees were so high that they were in little danger from my shot-gun.

Oct. 6.

3283. Small Black Hornbill ♀. ovary slightly enlarged.

~~*Lophoceros fasciatus*~~

Stomach filled with pieces of beetles & bugs.

Three were seen at Aba on July 11, and two today, about half way between Aba & Paradje.

3284. ^{*meipicus anthracinus*} Woodpecker. ♂. t. n. e. Stom. cont.: insect larva.

3285. " ♀. o. slightly enlarged. Stom. cont. insect larvae

(The large woodpecker of the forest.)

3286. Barbet (*Tricholaema* ^{*anergon*}) ♀. ovary slightly enlarged.

Stomach contents: fruit.

3287. Diny Kingfisher (*Ispidina*) ^{*picta*} ♂. testes slightly

enlarged. Stomach contents: 3 "pill-bugs" (*Cimex*)

While perching, this bird has a peculiar habit of raising and lowering its head from time to time, with a short abrupt movement.

Faradje

Oct. 8. 1911.

Helioscopus modestus

3298. Lark. ♂. testes slightly enlarged. Stomach contents tiny hard seeds.

3299. ♀. Mate of preceding. ♀. ovary slightly enlarged. Stomach contents tiny hard seeds.

This pair of larks was collected on a small granite hill, about 5 hrs. E. of Faradje. No other typical hill birds seen there.

3300. Black Weaver with yellow wing-coverts & rump. *Capellus crassirostris*.
♂. t. e. Stomach contents: hard seeds.

3301. Tiny Sunbird. ♂. t. n. e.
Oct. 9. *Cinnyris rosea butleri*.

3302. Red- & black Barbet (*Pogonocherus*) ♂. testes slightly enlarged. Stomach contents: red peppers.

3303. Same as preceding. ♀. ovary slightly enlarged. Stomach contents: red peppers.

3304. Black Barbet with red face. ♂. testes slightly enlarged. Stomach contents: fruit.

Oct 10. 3305. Sunbird. ♂. testes slightly enlarged.

3306. White-breasted Sunbird. ♂. testes slightly enlarged.

3307. Rufous-winged Shrike with black cap. ♂. testes slightly enlarged. Stomach contents: grasshoppers & beetles.

3308. Turtle Dove. ♂. t. e. Very common; still singing.

9 of these doves were killed at a single discharge. One of all white birds. After gather in flocks and eat earth on a spot in the port where a magazine containing salt is said to have stood. Goats, and a mule, have been observed licking the ground at the same place. The doves also came (over)

Faradje

Oct. 12. 1911.

istic "laughing" note, it sometimes utters a crow-like "caw". (In our experience plantain-eaters are noisy all year round, without reference to season)

Oct 13.

3317. Red-v. black Barbets, ^{(Piponorhynchus) hybridus aequatorialis} ♂. & n. e. Stomach contents: red peppers.

Numerous about the post, pecking large ^(of which they eat the seeds as well) holes in ripe papayas, in company with colies, besides eating the small native peppers, which are so hot that if I simply bite into one my mouth burns for a quarter of an hour. The fruit of wild fig trees are also devoured; and many other fruits as well. I believe ^{(note: with regard to red peppers being eaten by birds, see no. 3123, a pigeon which held wallnuts 75!}

They often produce a loud, hoarse, and prolonged "clicking" note, which may be compared with that of the nightjar Scotornis. These sounds, especially that of the nightjar, resemble nothing so much as a rapid succession of electric sparks.

Oct 14.

3318.

^{Hirundo senegalensis}

Large brown-rumped Swallow. ♀. o. n. e.

At this season, they roost in company

Paradise

Oct 20. 1911.

3344. Black & white Kingfisher (*Ceryle*) ♂. ^{*rufus rufus*} testes slightly enlarged. Stomach contents: fish.
3345. Goatsucker. ♂. testes slightly enlarged. Stomach *Caprimulgus natalensis chadensis* contents: some winged termites & pieces of beetles.
3346. Goatsucker. ♂. testes slightly enlarged. Stomach *C. natalensis chadensis* contents: many winged termites & 2 beetles.

Nos 3345 & 6, together with a long-tailed Nightjar (*Scotornis*) were capturing escaping termites on the wing, at dusk. Usually this species is perfectly silent, but recently I have heard a male utter, in flight, a short "kile".

Oct 21.

3347. Black Weaver with yellow back & wing coverts. ♂.
t. e. Colinus passer macrourus

Males in breeding plumage often exhibit their downy white breast-patch while perching. To display their charms to the female they adopt an ungraceful jerky flight, ^{spreading} and wagging the tail up and down; but the voice is very weak. They rarely perch beside their mate, but the many rods away keep continual watch over her, for if she flies they immediately depart in the same

Paradje

Oct. 23, 1911.

3351. ^{*Campephaga parvirostris*} Woodpecker. ♂. testes slightly enlarged. Stomach content ants. Found in a swampy strip of woods along a brook; a common species to the south, in the forest region, but this is the first time I have seen it at Paradje. Utters a "whining" note. Later seen near Mohajan, midway between Paradje & Aba.
3352. Small Wood Hoopoe. ♀. ovary slightly enlarged. ^{*Scopelogadus aeneus*} Stomach contained several berries and a few pieces of insects. The note of this species may be written "whā, whā, whā, whā ---" and is uttered rather slowly, being heard generally in the morning.
3353. ^{*Campephaga phoenicea*} Barred Cuckoo Shrike. ♀. o.n.e. Stomach contents: remains of insects. ^{*Dendrocincla fuliginosa*}
3354. Small Greenish Woodpecker with streaked breast. ♀. o.n.e. Iris dark red, maxilla dusky, mandible mostly blue gray, feet green. ^{*Dryobates leucorhynchus*}
3355. White-headed Barbet. ♀. ovary slightly enlarged. Stomach contents: fruit. Observed from Niangara to Aba, also at Vankerckhovenville.
3356. ^{*Campephaga quiescens*} Green & Gray Warbler. ♂. testes somewhat enlarged. ^{*Neoschalis chrysotis*}
3357. Weaver. ♂. testes somewhat enlarged. Stom. cont; seeds. ^{*S. 3071*}

Paradise.

Oct. 26. 1911.

species seems to be nearly, if not entirely, absent.

3366. Red- & black Weavers (*Pyromelaena*) ^{*flammeiceps*} ♂. t. e.
3367 ✓ " " " " " ♂. t. e.
3368 ✓ " " " " " ♂. t. e.
3369 ✓ " " " " " ♀. ovary somewhat enlarged.

A very common bird in the high grass. During the breeding season the males show their brilliant colors to great advantage in slow, horizontal flights, with flapping wings. At the same time they utter a "beady" note, consisting of fine chirps rapidly reiterated. This note is also given from a perch on a bush or grass-stalk, and resembles the sounds produced by 3 other related weavers, namely, the black widow bird, and the 2 yellow & black weavers represented by nos. 3334 & 3347.

- 3370 ^{*Lagonosticta rara*} ✓ Weaver. ♀. o. e.; a completely formed egg - pure white - in oviduct. Crop contained small seeds.
3371. Flycatcher. ♀. im. *Batis belluana* ^{*nyanzae*}
3372 ^{*Sitagra lutrolo* (Reht.)} ✓ Small yellow Weaver with black face & throat.
♂ testes somewhat enlarged, but skull not

Paradise

Oct. 29. 1911.

fixed on the ground. To carrion they come in larger numbers. Tho corresponding in a way to the turkey buzzard of America, their powers of flight are vastly inferior.

Oct. 30.

3381. Kestrel. ♀. o. n. e. Stomach contents: a lizard's Cercophora t. timmianus tail. First kestrel seen this season. Here there is no kestrel during the rainy months as

seen ³³⁸⁶ at Medje.

Oct. 31.

3382. Diny Kingfisher (Spidina). ♂. testes slightly enlarged. Stomach contents: a grasshopper. Rather noisy and active at present, as the mating.

3383. Harrier (Circus) ♀. ovaries not enlarged. Crop macronus and stomach contained 3 lizards. Iris brown, cere greenish yellow, corners of mouth green, bill black with blue base, feet yellow, claws black.

3384. Kite (Elanus) ^{caeruleus} ♀. ovaries not enlarged. Iris orange brown, Stomach contents: fur and bones of a rat.

Nov. 1.

3385. ^{Platystira cyanea myanmae} Red-wattled Flycatcher. ♂. t. n. e.

Oct. 30.

3386. ^{Megascopus bengalensis} Small blue-breasted Weaver. ♂. testes slightly enlarged.

Paradise

Nov. 5. 1911.

brown. Shot in same place as no. 3391.

3396. ^{*Sylvietta brachyura*} Short-tailed Warbler. ♂. t. n. e.

3397. ^{*Phylloscopus inornatus*} Blue-gray Warbler with rufous patch on primaries.

♂. testes slightly enlarged. A characteristic bird of swampy woods, usually seen in pairs. Its notes are far from musical; they commonly resemble the words "three cheers", repeated monotonously, and sounding as tho the bird would like to whistle if he only knew how.

3398. ^{*Nesochorus cafer*} Weaver. ♂. imm.

Nov. 6. 3399. ^{*Indigaster indigaster*} Honey Guide. ♂. testes slightly enlarged. Stomach contained beeswax.

Early yesterday afternoon in a small wooded swamp close to the post, we came upon a male of this species, who at once started his excited chattering call, and soon flew off some distance, calling continually, and returning shortly to make sure we were following. We replied, according to the custom here, with low whistles, and were led out onto the higher ground, thru the tall

Paradise
Nov. 6, 1911.

a tool to dig out the hive, and the birds, seeing that I stayed on the spot, retired noiselessly. A little while later I saw them again, for they were sitting with puffed-out breasts and open bills, uttering a low "cheee-r-r", which I had never before heard. They were apparently quarreling, for one shortly chased his ~~partner~~ off at top speed.

With the aid of burning grass and a long-handled native farming implement ^("gita"), my two boys soon had the hive unearthed, paying a penalty of only 6 stings; but, as we expected, the comb contained no honey, only a little orange-colored pollen (?), and many larvae. The hole was a chamber excavated by termites.

A shower of rain prevented me from seeing the return of the honey-guides, but we placed their reward in the forks of a tree, and returning an hour and a half later, found that they had been feasting. Early the next morning

Faradje

Nov. 6. 1911.

3400. Brown Flycatcher. ♀ im. *Bradornis pallidus subalaris*

3401. Kite (*Elaanus*) [♂] t. n. e. Stom. cont.; fur of a rat.

Nov. 8. *Pytilia phoenicoptera emmei*

3402. Weaver. ♀. o. e.; an egg (pure white) in oviduct

3.3358.

Crop contained termites (wingless).

3403. ^{*Hirundo senegalensis*} Large brown-rumped Swallow. ♂. testis slightly enlarged

3404. " " " " ♀ o. n. e.

3405. " " " " ♀ immature.

3406. " " " " ♀ immature
(note trace of light spots on outer rectrices of no. 3406.)

Nov. 9.

3407. Owl (*Strix*) ♀ ovary slightly enlarged. Stomach

^{*Nyctale alba affinis*}

contents: feathers and bones of a small bird.

at 4 AM.

Shot in the post, where I had been aware, for more than a month, from their excrement and pellets, that owls were accustomed to come at night. Their favorite perches were in a rubber tree with several stout horizontal boughs, and on some small beams that projected from the wall of a house, beneath the roof of the verandah. The first time I heard them make a noise was yesterday, when one uttered a hoarse "shshshsh--"

Paradise

Nov. 11, 1911.

Lamprocolinus chalcurus

3412. Resplendent Starling. ♂ testes slightly enlarged
Stomach contents: insects. Iris deep yellow, bill
and feet black.

3413. Same as preceding ♀. ovary slightly enlarged
Stomach contents: insects. *L. chalcurus*.

Nos. 3412 & 3 differ from nos 3410 & 11 both in color
and size. All four specimens were shot
from flocks in a pasture. where they often
alighted on the ground to feed. The larger
species, in life, appears to have more brightly
colored irides, and often makes considerable
noise with its wings in flying. Their
calls are somewhat alike.

Nov. 12.

3414. Gray-backed Wagtail. ♀. s. n. e. Evidently
Motacilla alba
a migrant from the north, for this is
the only one I have seen since April last.

During the dry season it is rather common
here.

Nov. 13.

3415. Resplendent Starling. ♂. t. n. e. Stomach
s. 3412. contents: berries. *Lamprocolinus chalcurus*

3416. Resplendent Starling. ♂ immature.
s. 3412.

Faradje

Nov. 14. 1911.

contents: berries and a large grasshopper.

3422. ^{Cybinus tridactylus} Black Barbet with red face. ♀ im. o.n.e. Stomach contents: fruit & a large black ant.

Nov. 15

3423. Roller (Coracias). ♀. o.n.e. Stomach contained ^{gambulus} remains of a grasshopper, 2 dung beetles and other coleoptera. (Outer tail-feathers not elongate.) Shot in a bushy pasture.

3424. Hoopoe. ♂. testes somewhat enlarged. Stomach (photo) ^{Upupa somalensis} contents: pieces of a beetle's shell and an insect-larva resembling a large ant-lion. The hoopoe is here a bird of the dry season, the first one being observed this year on Nov. 9.

3425. Snipe (Gallinago). ♀ o.n.e. The particularly ^{media} fond of swamps, they may also be seen from time to time in dry fields, as was the case with this specimen.

3426. ^{Cybinus tridactylus} Black Barbet with red face. ♂. testes slightly enlarged. Stomach contents: berries. Iris medium brown.

The characteristic note of this barbet is a dry "hic-cup, hic-cup, hic-cup, hic-cup, hic-cup - - - -", ~~for~~ introduced

Paradise

Nov. 16. 1911.

3434. Small Wood Hoopoe. ♂. t. n. e. Iris dark
s. 3352. Scopelogadus aeneus eremii.
brown, bill dark gray, corners of mouth yellow.
feet blackish, soles green. Stomach contents:
a small caterpillar and insects.

Rather common: climbs about in
leafy trees and bushes. The notes which I
have already described as "whā, whā. whā--"
are uttered by the males.

3435. Rhino Bird. ♀. o. n. e. Iris bright orange,
Euphonia africana.
outer portion of bill red, base of mandible
and sides of maxilla at base bright yellow.
feet dusky brownish. Stomach contents:
several ticks, many short hairs, a small
insect, etc.

Said to have been shot as it sat on a
rhino's head, close to the ear. The rhino
departed precipitately.

3436. Starling (Ceratophora ^{carunculata}) ♂. testes slightly
enlarged. Stomach contents: berries. In
this example the paired gular wattles are
well developed, tho those of the crown are

Faradje
Nov. 17. 1911.

3444. Resplendent Starling. ♀. o.n.e. Stomach contents: small insects. *Lamprocolius chalcurus*

3445. Black & white Kingfisher. ♀. ovary somewhat enlarged. *Ceryle rudis rudis*. Stomach contents: fish.

3446. Small Resplendent Starling. ♀. im. o.n.e. Stomach contents: small insects. *Lamprocolius chalcurus*

Nov. 19. *P. phoeniceus crinitus*

3447. Weaver. ♂. testis slightly enlarged. Iris red. Crop contained grass seeds.

5. 3358. 3448. *P. phoeniceus crinitus*. ♂. testis somewhat enlarged. " " Crop contained a termite.

3449. *P. phoeniceus crinitus*. ♀. ovary slightly enlarged. " "

3450. Small black Weaver. ♂. t.e. skull not quite completely ossified. *Hypochaeris* sp?

Chlorophanes aestiva *Chlorophanes aestiva*
3451. Green & yellow Shrike with orange breast band. ♂. t.n.e.

3452. *Chloropeta maculosa umbriniceps*. Small yellow-breasted Flycatcher. ♂. t.n.e.

3453. Flycatcher-Shrike. ♂. testis slightly enlarged; skull not quite completely ossified. Stomach contents: remains of beetles. *Vilans alba*

3454. Black Weaver with yellow wing-coverts & *Euplectes crassirostris*. rump. ♂. testis much enlarged.

Nov. 20.

3455. Purplish Dove with black nuchal crescent. ♂. *Streptopelia vinacea*. t.e. Crop contained millet ("mala")

Absent during a large part of the rainy season. First heard calling this season on Sept. 4. Leaves about March.

Vankerkhovenville (= NZORO)

Aug. 7. 1911.

On Aug 6, thirty ^{colies} and a pigeon were
there taken. Judged from their plumage and the
color of the bill, 25 ^{of the colies} were adult and 5 young. The
pigeon was of the common ^{large} species with black
nuchal mark. (*Streptopelia semitorquata*) On Aug 7, when I visited the
place there were a dozen or more colies waiting
outside, but only two were taken that day.
Nos. 3045-9 I selected for the perfectness of
their tails. Their stomachs contained nothing but
red earth. I have taken a sample of this clay from
inside the cave; and it has been suggested that
it may contain salt, tho to my tongue it has
not a very saline taste.

Only a few yards away, in the same bank, is
a large, but more open cavity, which the natives
have covered with boughs so that the birds will
go only to the one where they can be captured.
Both, the natives claim, have been excavated
by birds and animals; pigs and brushbucks
being said to come there by night. They are not
new, indeed the blacks claim that their
fathers caught birds there, and that it is done
continually. A similar hole, much frequented

Vankerk
Aug 7

3050.
23871.

3051

Aug
3052

3053
3054
3055

450
Vanhookhoveville.
Aug. 9. 1911.

(70 N)

3055. Gray Hawk (Asturinelus) ♂. t. n. e. Stomach
contained remains of a rat and a small lizard.
Corniceba cornice
3056. Large Streaked Brown Shrike with long tail. ♀.
ovary slightly enlarged. Stomach contents: remains
of black ants. (taken on the wing.)
3057. Same as preceding. ♂ immature. Stomach
contents: remains of black ants.

Today's specimens were shot in the same
field as those of July 30. There were 4 or 5
flying out from the trees at intervals to capture
ants on the wing. In going to the village
of Gaduma we passed a field where there were
3 or 4 of the same shrikes, and while coming
back, five days later, noticed half a dozen in
the same place. On the other hand, in
the many other clearings and plantations
along our road we saw not a single example.

3058. Cuckoo. ♂. testes slightly enlarged. Stomach contained
Cuculus jacksoni
remains of caterpillars.

Aug. 10.
3059.

Paridoma plumbeum
Gray Warbler. ♂. t. n. e. Iris dark brown; maxilla
black, mandible bluish gray with black tip; feet
bluish. Stomach contained 3 small caterpillars
and some insect remains.

Faradje
Aug. 11. 1911.

3065. ^{*Othophantis baglafecht* (Vieill.)}
Black-marked Weaver. ♀. ovary slightly enlarged.
Iris light buffy yellow, bill black, feet pale pinkish buff.
3066. ^{*Amphispiza macroura*}
Black Weaver with yellow wing-coverts & back. ♂. t. e.
Common everywhere in this region.
3067. ^{*Pyromelana aeneocephala*}
Black Weaver. with back of head and a band on upper breast orange red, upper back yellow. ♂. t. e.
Quite a number seen around Vankerschovenville and on road to Faradje. They perch and feed on the high grasses.
3068. ^{*Dryocopus cinereus*}
Shrike. ♂. t. n. e. Stomach contents: insects.
3069. ^{*Dryocopus cinereus*}
"Flycatcher. Shrike". ♂. t. n. e.; skull not completely ossified. Nilous apex

Evidently in search of insects these birds hop about in almost warbler-like style amid the boughs, not in the forest, but in the trees scattered about the more open country, especially in acacias.

Aug 12.

3070.

^{*Campylorhynchus jamaicensis*}
An olive, gray, and yellow Cuckoo. Shrike, whitish below, and barred throat with black. ♂ immature.
Iris dark brown, bill & feet blackish. Stomach contents: insects. Sat on tops of low bushes in an open marsh, darting down from time to time after insects.

1 m

Faradje
Aug 12

3071.
3072.

3072.

Aug 11.
3073

Aug 13

3074

Aug 14

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Aug 15

3077

0

Paradise.
Aug 15. 1911.

enlarged. Stomach contained about 20 small beetles, 3 roaches, and 2 leafhoppers. Still flying aloft in numbers in the early evening.

Aug 8.

3078.

Ground Hornbill (Bucorvus) abyssinicus. Sex? Lores bluish gray, close to eyes dark blue, throat indigo blue, cheeks and lower portion of the throat rose madder, beak in front of eyes pinkish & gray.

Aug 17.

3079.

Night Heron (N. leucosotus). ♂. testes slightly enlarged. Iris brown, lores and feet greenish yellow, streaked with light green beneath mandible. One of a pair found in the afternoon in trees on a small island in the River Dunga.

3080. Buff-breasted Bee-eater with red throat. ♂. t. n. e.

3081. " " " " " " ♂ t. n. e.

3082. " " " " " " ♀ o. n. e.

Common about the post & river.

Corpephone viridis

3083. Paradise Flycatcher. ♂ immature. Bill dusky with light gray base, rim of eyelids dusky, iris dark brown, feet blue.

Sitagra taenipectus

3084. A Yellow Weaver with black face & throat. ♂. t. e.

3063.

Many of these weavers are nesting in the tall reeds and papyrus along the Dunga, but like many other members of their family they build a large number

Faradje

Aug 18, 1911.

3089. ~~Hyphantornis~~ *Hyphantornis* *ocularis*
Yellow Weaver with black line thru eye. ♀. o.m.e.
Stomach contents: insect remains.
3090. ~~Dryocichla~~ *Dryocichla* *incana*
Blue-gray Warbler with rufous patch on primaries.
♂. t.e. Stomach contents: small insects.
3091. ~~Melanoternis~~ *Melanoternis* *nigerimimus* (Vieill.)
Black Weaver. ♀. ovary somewhat enlarged. Stomach
contents: insects.

With this number I have labelled a nest and
a set of 2 eggs of this species, collected at Vankersckhov-
enville on Aug. 8, as well as 2 odd eggs taken at
the same spot, where there were a dozen or
more nests attached to high stalks of grass,
a very unusual situation. Each nest was
hung between two of the higher flowering stems,
at a height of 10 or 12 feet; three of them contained
sets of 2 light blue eggs, and a fourth held 2 young.
Many black males, and a couple of greenish females
were observed.

Aug 19.

3092.

Boatswain (M. *verillarius*) ♂. testes slightly enlarged
Stomach contents: principally small beetles, but
also 3 small grasshoppers, 2 tiny leaf-hoppers, and
a very small bug.

3093.

Sandpiper (*Actitis hypoleucos*) ♀. o.m.e. Stomach
contained maggots. The first migrants arrive from

Faradje

Aug 21. 1911.

3105. ^{*Helioda erythroptera*} Warbler. ♀ immature. Stomach contained the leg of a spider and a few insect remains.
3106. Pipit (*Macronyx* ^{*crissalis*}) ♀ imm. Stomach contents: insect remains
3107. " " ♀ imm. " " " "
3108. Small Bustard. ♂. testes slightly enlarged. Iris *Lisotis melanogaster*. light brown, rim of eyelids dull lemon yellow, top of maxilla blackish, rest of bill light yellowish gray, corners of mouth a little yellower, feet very light yellow. Stomach contained seeds & small beetles, and one large black dung beetle. (Body, skeleton also preserved.) Alighted in an open spot in the grass. not far from the post. Has been seen near Niangara, at village of Denge.
3109. Gray Owl (*Bubo* ^{*cinereus*}) ♂. t. n. e. Stomach contained remains of many roaches and a spider. Shot in a small clump of trees during daytime.

- Aug 22.
3110. Slaty Gray Rail (Skeleton) ♂. testes somewhat enlarged. *Limnoperdix flavirostris* ^{*5 ictorhynchus*} Skin saved for identification.
3111. Partridge, ♂. t. e. Crop filled with seeds and bluish berries.

- Aug 23.
3112. Fruit Pigeon. ♀ juv.
3113. Pipit (*Macronyx* ^{*crissalis*}) ♀ immature. St. cont. insects. *Pipilo notostictus*

- Aug 24.
3114. Bullbul with yellow under tail coverts. ♂. testes slightly enlarged. Stomach contents: fruit. Notes are broken musical twitterings, and birds occasionally call, with both wings raised aloft. Seems to have no regular song.

¹⁴⁰⁰
Paradje
Aug 27, 1911.

clinging to the lower side of an oblique dead branch; and others were met with at Rungu and Paradje. They are often followed by 2 or 3 drongos, (*Sicurus a. divanicatus*) which try continually to peck at them, and attract one's attention by the rasping calls. Only one have I seen go down to the ground; usually they progress by repeated short flights, not allowing an approach to within gunshot; their apple plumage giving a false impression of size.

3122. Pigeon with black crescent on back of neck. *S. testis* *Streptopelia semitorquata* enlarged. Crop contained many gourd seeds, evidently of the kind so widely cultivated by the natives. At the present time these have been gathered in heaps, and left in the fields to rot and dry.
3123. Same as preceding. *S. testis*. Crop contained 75(!) *S. semitorquata* small red peppers, and 35 other small fruits.

The common large pigeon here; the big light gray wood pigeon, *Columba senegalensis*, being found toward Dunge, and the smaller *Turtur*, *viduata*, being first met in going toward the forest, between Dunge and Niangara.

Paradise
Aug. 29, 1911

3133. Rail, ^{*Sarothra pulchra*} (*Coruthura*) ♂. testis slightly enlarged.

It is now certain that this rail does make the noise ascribed to it by natives, a sort of "gung-gung-gung-gung, gung-gung-gung-gung, ..." as well as a shriller "kik-kik-kik-kik..." uttered much more rapidly. The present individual produced both types of notes just before being shot, while walking along the muddy banks of a brook.

3134. ^{*Dryocichla incana*} Gray Warbler with rufous patch on primaries ♀, o. e. Stom. contents; small insects.

In almost every one of the little patches of woods in this vicinity, a pair of these warblers resides, finding their living by searching carefully the boughs of the trees.

Aug 30.
 Sarawak River.

3135. Honey Guide, ^{Indicator} ♂. Red Mr. Lang to a bee-hive in a large tree. The nest, like that found yesterday at Paradise, contained no honey; but the following day 2 honey-guides were seen feeding on the comb.

Paradise.

3136. Widow-bird (^{*Ardea*} *Vidua*) ♂. t. e.; but skull not completely ossified.

3137. ^{*Hirundo asiatica*} Rufous-crowned Swallow. ♂. testes somewhat enlarged.

Paradise

Sept 2, 1911.

3145. Pipit (^{croceus} *macronyx*) ♀ immature. Stom. cont.; insects.

3146. Coly. ♀ o.e. *Colinus nigricollis leucophthalmus*

Between forking branches of a mimosa bush, about 5 feet from the ground, she had a nest, a bulky cup composed of shreds of bark, grass- & weed stems, and a few dry leaves. When I first saw it, a couple of days ago, there were 2 eggs of a dirty whitish color; but one was broken since then. The remaining egg I have preserved (labelled No. 3146 a.)

On Sept 5, another nest was found in a mimosa bush, about 10 feet up, and containing 2 eggs. The nest & eggs have been preserved (No 3146 b.)

At Aba on July 19, I took a coly's nest which I found in a small tree, also about 10 feet from the ground. It contained an egg and a newly hatched young coly. (No 3146 c.)

The latter was preserved in alcohol, and shows natal down, barely 2.5 mm long, over whole upper surface, breast, and lower abdomen, though short on abdomen.

Sept. 3.

3147.

Widow-bird (*Vidua*), ♂ testes enlarged; skull not completely ossified.

3148.

Widow-bird (^{severe} *Vidua*), ♂, t.e.; skull not quite completely ossified.

3149.

Paradise Flycatcher. ♂ immature.

Sept 4.

3150.

Red-faced Barbet. ♂ testes slightly enlarged. Stomach

Paradisi

Sept. 4, 1913.

3156. ^{*Cisticola notablenis malgache*} Warbler, with grayish brown back & thick bill. ♂ testes slightly enlarged. Stomach contents: insect remains. A common bird in all the more open country, giving vent to his emotions, on the wing, by notes seemingly meant for a song. First he flies to a considerable height in the air, and then comes down obliquely, uttering a reiterated guttural, ^{strident or even} gurgling sound, until, at the end he alights in a conspicuous position on some tree or bush. Similar notes may also be delivered from a perch.

3157. Small Brown Warbler, with dusky streaks on upper ^{*Bradypterus abyssinicus*} breast. ♂ testes somewhat enlarged. Iris dull brown; bill black, with base of mandible bluish gray, feet brownish. Stom. cont., remains of tiny insects.

3158. Same as preceding. ♂ testes somewhat enlarged. ^{*Bradypterus abyssinicus*} Stomach contents: remains of tiny insects.

A common inhabitant of papyrus swamps, where, during the rainy season, its notes are among the most characteristic sounds, tho heard less frequently during the hotter hours of the day. They consist of a sort of chirrup, repeated some 12 or 15 times, slowly at first, but then faster are loud enough to carry much greater distances, even across hundred yards.

This same description would fit the song of the spotted Papyrus bird as well, but whereas the notes of the smaller species are ~~as~~ ^{as} ~~loud~~ ^{loud} ~~as~~ ^{as} ~~the~~ ^{the} ~~others~~ ^{others} ~~and~~ ^{and} ~~is~~ ^{is} ~~heard~~ ^{heard} ~~only~~ ^{only} ~~when~~ ^{when} ~~one~~ ^{one} ~~is~~ ^{is} ~~in~~ ⁱⁿ ~~the~~ ^{the} ~~swamp~~ ^{swamp} ~~those~~ ^{those} ~~of~~ ^{of} ~~the~~ ^{the} ~~spotted~~ ^{spotted} ~~species~~ ^{species} ~~are~~ ^{are} ~~loud~~ ^{loud} ~~enough~~ ^{enough} ~~to~~ ^{to} ~~carry~~ ^{carry} ~~much~~ ^{much} ~~greater~~ ^{greater} ~~distances,~~ ^{distances,} ~~even~~ ^{even} ~~across~~ ^{across} ~~hundred~~ ^{hundred} ~~yards.~~ ^{yards.}

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Faradje
Sept 5. 1911.

3160. Bronzed Sunbird. ♀ juv. *Ameryia cyaneus*

3161. ^{*Sitagra taenioptera*} Yellow Weaver with black face & throat. ♂ t. e.

Stomach contents: seeds.

3162. Owl (*Scops*) ^{*capensis*} ♂ t. n. e. Iris yellow; bill dusky, but greenish beneath mandible, toes brownish, claws dusky.

Sept 6.

3163 Owl (*Scops*) ^{*capensis*} ♂ t. n. e. Stomach contained 2 legs of a mantis, and a feather, perhaps from the owl itself.

No. 3162 was shot at dusk in some trees about a spring, where he had been heard calling for two evenings previous. No. 3163 was secured the following evening, only a few hundred yards away, where he was clinging to a tall grass-stalk, in the open. The call, which we have heard occasionally at dusk & during the night, is a single short note somewhat metallic, repeated at short intervals.

3164. ^{*Prinia microscopica*} Warbler. ♂. testes somewhat enlarged. Common.

3165. ^{*Sitagra taenioptera*} Yellow Weaver, with black face & throat. ♂ t. e.

Stomach contents: seeds & insect remains.

Sept 7.
3166. Small Blue-black Weaver. ^{*Hypochaeris chalybeata*} ♂ t. e. Crop & stomach

Paradise
Sept 8. 1911.

Stomach contents: insect remains.

Also a bird peculiar to the papyrus, where it goes sneaking about, uttering a low chip, or chuck, and sometimes, if one stands very still, coming very close. (Sings like the Little Papyrus Bird, but much louder: in fact this is the species more commonly heard.)

3178. ^{*Emmiza lepida*} Green- & Gray Warbler with chestnut throat & shoulder-patches. ♂. testes slightly enlarged.

About Paradise this is a common bird in woods near water, as well as of papyrus swamps. with a conspicuous voice, producing loud and ringing notes, or even short reiterated whistles, but nothing really musical.

3179. ^{*Trochilophaga viridis*} Paradise Flycatcher. ♀ o.n.e.
3180. ^{*Calinaptes corymbosus*} Black Widow Bird. ♂ immature (in brownish plumage)
3181. ^{*Calamagrischla nilotica*} Gray Papyrus Bird. ♂. t. e.

This bird and his mate were very anxious about their nest, which was supported at a height of 11 feet in the papyrus, as shown by the sketch, being placed in the head of one of the rushes, and attached by its side to the stalk of another higher one. Its shape was that of a cup, while its materials

Faradje

Sept. 9. 1911.

- Anthracoceros longimanus* *haussmanni*
3187. White breasted Sunbird, ♂. testes slightly enlarged.
3188. " " " " ♀ o.n.e. Iris dark
brown; bill & feet dusky greenish. The first
I have seen at Faradje in all our stay.
3189. Small Blue. black Weaver ♂. t.e.; but skull not com-
Hypochaeris schalypbeata pletely ossified.
3190. " " " " ♂ " " " " "
3191. " " " " ♂ " " " " "
3192. " " " " ♀. ovary somewhat
enlarged, but skull not completely ossified. Crops
of all four contained tiny seeds.

Notwithstanding its lack of elongated tail feathers, this bird bears many resemblances to the little widow bird (*Vidua*). They both feed on the ground in small flocks, sometimes together; the females resemble each other considerably; and I have even seen a male of the black species hover in the air beside a perching female in exactly the same way as the widow birds do continually. The condition of the skull is likewise the same.

Sept 10.

3193. *Pentholota senegalensis*
Small Black Chat with white forehead & wing over.
♂ testes slightly enlarged. Stomach contents: insects

Paradise

Sept. 11. 1911.

3202. Long-tailed Goatsucker (Scotornis) ♂ t. n. e.

3203 " " " Scotornis ♂ " " "

Shot as they alighted on the road before sunrise. After sunset, at the same spot, they fly about actively, but do not alight, nor have they begun as yet to give their loud "clicking" call.

3204. Spotted Papeyus bird. ♀. o. e.; an egg in oviduct.
Bradypterus karpalis
But skull not completely ossified.

3205. ^{Myiophobus ocellatus}
Yellow Weaver with black throat and line
thru eye. ♂ testes slightly enlarged.

Sept 12.

3206. ^{Sitagra luteola (Lcht.)}
Small yellow Weaver with black face & throat.
♂. t. e. Iris bright brown, bill black, feet
bluish gray, Crop contained seeds.

3207. Greenish Bee-eater, with forked tail, yellow
Dicroceres himalayensis bedfordi
throat and blue under tail-coverts and breast.
band. ♀. o. n. e. Iris red; bill black; feet
dark gray.

3208. ^{Catherpes op.}
Two grayish Bulbuls. ♂. testes slightly enlarged
3209 Stomachs contained insects.

3210. ^{Emmottus gubernator}
Small Red-backed Shrike. ♂. testes slightly enlarged

3211. ^{Cinnyris chloropygia}
Small Red-breasted Sunbird. ♂ t. e. Has
been observed several times recently in swampy

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Sept. 12. 1911.

eggs, which were of an unusual light grayish blue color, without a spot. Their ownership was made certain by our seeing the female enter the nest twice.

3218. Heron (Ardea goliath) ♂. testes slightly enlarged. Stomach contents: fish bones. Iris yellow, orbits dark green; maxilla black, mandible blackish above, but light green beneath tip. and whitish below posteriorly; feet black.

Sept 15.

3219. Partridge, ^{*P. icterophrys*} ♂. t. e. Crop contained ants, termites, a beetle, bits of grass, small fruit, and other vegetable matter.

3220. ^{*Lagonosticta rara*} Small Red and Black Weaver. ♂. testes somewhat enlarged. Crop contained small seeds & termites. The "song" of this species is a dry, musicless attempt at a trill, recalling the note of the chippy (*Spizella socialis*).

Sept 16.

3221. Small Green-backed Bee-eater. ♀ o. n. e.
^{*Melittophaga pusillus*}
3222 Black & white Kingfisher (Ceryle) ^{*t. n. e.*} _{*rufis rufis*}
Stomach contents: fish bones.
3223. Least Bittern (Ardetta) ♀. ovary somewhat enlarged. Iris dull orange red, shading to

nm

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Sept 16.

3224.

Sept 17.
3223.

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3226. ^{*Ploceus superciliosus* (S. belly)}
Weaver ♂. Testes somewhat enlarged. Stomach contents
3227. seeds & tiny bits of stone.

3227. ^{*Ploceus superciliosus*}
Same as preceding. ♀. o.e. Stom. cont.: seeds.

Sept. 19.

3228. Owl (*Scops*) ^{*capensis*} ♂. t. n. e. Stomach contained a few
pieces of insects. Shot in same place as no 3162.

3229. Black-v-white kingfisher (*Ceryle*) ♂. t. n. e. Stomach
contents: fish. Iris dark brown; bill & feet black.

3230. Wood Hoopoe ♂ t. n. e. Stomach contents: termites
Phorinaculus purpureus niloticus
& ants.

3231. Wood Hoopoe ♀. o. n. e. Stomach contents: termites
Phorinaculus sp. *niloticus*
& stones of fruit.

3232. Partridge ^{*intusorhynchus*} ♀. ovary slightly enlarged. Crop contained
small seeds. The female sometimes mounts a tree
while her mate is calling from aloft.

Sept. 20.

3233. ^{*Acticola notalensis malgacii*}
Warbler. imm. Stomach contents: small beetles, etc.

Sept. 21.

3234. White-breasted Sunbird. ♂. Testes very slightly enlarged,
skeletal not completely ossified. Stomach contents: small
spiders & a tiny beetle. *Antroreptes longimanis* *haussmanni*
Acticola & *erythrops*

3235. Buff-checked Warbler. ♀. o. e. Very common here,
in high grass and brush.

3236. Sandpiper. ♀. o. n. e. *Pisobia minuta*.

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3246. Hornbill (Bucorvus) abyssinicus ♀. o. n. e. Stomach contained a few insect remains. Naked skin of orbits & throat blue.

Sept 26.

3247. Goatsucker (M. vexillarius) ♀. ovary somewhat enlarged. Stomach contents: small beetles, including some dung beetles, a few bugs, and an earwig.

They no longer fly about high in the air; indeed since Sept 3rd I have not seen a single male.

3248. Goatsucker. ♂. testes slightly enlarged. Stomach contents: a few remains of beetles.

Sept 27.

3249. Yellow-breasted Finch. ♀. o. e. Scirpus mozambicus barbatiss
3250. Goatsucker (Scotornis) ♂. testes slightly enlarged. Stomach contents: a few pieces of beetles.

3251. Goatsucker. ♂. I m. J t. n. e. Stomach contents: a dung beetle, a bug, & a green leaf hopper.

Sept 28.

3252. Goatsucker. ♂. testes slightly enlarged. C. natalensis chadensis Members of this species, as well as of Scotornis, are now occasionally seen to alight on the ground at dusk.

- 3252 a. Cinnyris cupreus. ♀. ovary enlarged

Paradji

Oct. 5. 1911.

3275. Cuckoo. ♀. o.n.e. Stomach contents: a slug,
Certhium chrys. intermedius
a large grasshopper, and pieces of a smaller
grasshopper and beetles.
3276. Shrike (*Laniarius*) ♀. o.n.e.
ae. flaviceps
3277. Shrike (*Malaconotus*) ♀. im. Iris orange. Stomach
polio. castroalantus
contents: a large bug.
3278. ~~Small~~ *Pyrrhuloxia* Woodpecker. ♂. t.n.e. Stomach
contents: small white quibs. Iris dark red, bill
dusky with gray base, feet dark grayish green.
3279. ~~Small~~ *Myiarchus cinerascens* Weaver, with red back, and white
Myiarchus cinerascens
spots on sides. ♀. ovary somewhat enlarged.
Crop contained seeds.
3280. Red-crested Plantain-eater (*Muscophaga*) ♀.
rossi
ovary slightly enlarged. Stomach contained fruit.
Shot in a patch of forest about midway between
Paradji and Alba, where I also heard the
call of the great Plantain-eater (*Corythoeca*).
This *Muscophaga* has never been noticed close
to the post of Paradji, probably because
there are no suitable woods; but between
Dungu and Niangara they appear to be
common. Its notes have some resemblance
to those of *Parus*, but without such regular

Paradji

Oct 6, 1911.

3288. ^{*Cercina pectoralis*} Right gray Cuckoo shrike. ♀. o. n. e. Stomach contents: 3 caterpillars (hairless).

Was hopping actively about in the boughs of a high forest tree.

3289. ^{*Phylloscopus procerus orientalis*} Bulbul. ♂. t. n. e. Stom. cont.; 3 small caterpillars (hairless), and insect remains.

3290. Same as preceding. ♀. o. e. Stom. cont.; a small green caterpillar and insect remains.

[No 3266 to 3290 incl. were collected in and about a patch of forest some 3/4 hour S. of nest-house morgan or marapili, midway between Abas & Paradji.]

3291. Black Widow-bird. ^{*Colinus pectorator*} ♂. t. e.

3292. " " " ♀. o. e.

3293. Red & black Weaver (^{*Phainopepla*} *Pyromelaena*) ♂. testes much enlarged.

3294. Weaver. ♂ im. t. n. e. Stom. cont.: seeds & small stones.

3295. Small Papyrus Bird. ♂. t. e. Stom. cont.; tiny insects.

^{*Bradypterus*} *abyssinicus*

These birds have nearly quit singing altogether.

The main season of song comprises the months of June, July, August & September.

3296. ^{*Acrocephalus*} Small Brown Fly catcher. ♀. ovary slightly enlarged.

3297. Young of 3296. ♀ im.

Shot in a papyrus swamp, 5 hrs. E of Paradji.

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continually to another spot in the post where men were accustomed to urinate!

Oct 11. 1911.

3309. *Coccyz. p. juv.* Stomach contents: remains of *(Centropus monachus)* ^{her's} large grasshoppers & beetles.
3310. *Emilia bipida* Warbler. ♂ testes slightly enlarged.
3311. *Placoteneus sp.* Thrush. ♂ immature.
3312. *Pomatohypobius aeneogaleus* Shrike (*Telephonus*) ♂ immature. A very common bird here.
3313. *Pyrenestes* Red. v. black Weaver. ♂. testes slightly enlarged.
o. ostrinus A bird of the swamps, not very common.
- Oct 12.
3314. *Ptilinopus* Shrike (*Malaconotus*) ^{*p. catharopneustes*} ♂. testes slightly enlarged.
Stomach contents: a large dragon-fly.
3315. *P. catharopneustes* Shrike (*Malaconotus*) ♂ testes very small.
(Skull completely ossified, inspite of gray bill) Iris deep yellow. Stomach contained several large paper-wasps.
- The peculiar protracted whistle of this shrike, not loud, is often introduced by one or two abortive attempts, only audible at close range; and is heard most frequently in the early morning. The birds hope about in low trees and bushes, and seem fond of the rubber groves (*manihot*).
3316. Gray Plantain-eater (*Schizorhis*) ♂ t. n. e.
zonurus Stomach contents: fruit. Besides its character.

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amid the high grass and bushes, for often while watching for goatsuckers at dusk, I have seen flocks of 70 to 100, easily identified by their nasal calls, come down and fly anxiously around, with much whisk of wings, before settling down for the night.

3319. ^{*Sitagra taeniophora*} Weaver. Imm. t. n. e. Iris light gray.
3320. ^{*Yungipicus obsolitus*} Small Gray Woodpecker. ♀ o. n. e.
3321. ^{*Colaptes auratus*} White-eye. ♂. testes much enlarged. ^{*gasterops superciliosus*}
3322. ^{*Papyrusbird*} Papyrus bird. ♀ juv. Secured, of course, in a papyrus swamp. My attention was drawn to it by its plaintive note, quite distinct from the voice of an adult.
3323. ^{*Empidonax hammondi*} Blue-gray Warbler, with rufous patch on primaries. ♂. testes slightly enlarged; skull not quite completely ossified.
3324. ^{*Phylloscopus colaptes*} Shrike (Telephonus). ♀. o. n. e.
3325. ^{*Phylloscopus colaptes*} Bulbul. ♂. testes slightly enlarged. Stomach contained small fruits, the intestine the seeds of red peppers.
3326. ^{*Myiophobus*} Swallow (*Psolidoprocne*) ♂ immature.

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3334. Black Weaver with yellow wing-coverts and rump. ♂
Amphispiza bilineata
testes much enlarged. Common about Paradise.

3335. Brown Flycatcher. ♂. t. n. e.
Pratincola pallidus exilis

3336. Small yellow Weaver, ♂. ^{*Amphispiza bilineata butleri*} testes slightly enlarged;
skull not completely ossified. Iris hazel; bill &
feet dull brown, rather light. Stom. cont.: seeds.
First I have ever seen: was sitting on a small
tree in the high grass.

3337. ^{*Campethera palia*} Woodpecker with red moustaches. ♂. t. n. e. Stomach
contents: little brown ants and small termites.

3338. ^{*Cinnyris* resp. ++} Tiny Seabird. ♂ imm. Stom. cont.: remains of tiny insects.
Cinnyris ~~res.~~ ^{*butleri*}

3339. Widow-bird (Vidua) ♂ imm. (juvenile plumage)
vidua

Oct. 19.

3340. White-crested Plantain-eater. ♀. ovary somewhat
Platycercus leucolophus
enlarged. Stomach contents: a rather large snail,
and pieces of its shell.

3341. Snipe (*Gallinago*). ♂. t. n. e. Pretty numerous
^{*indica*}
in open muddy places in swamps at the present
time.

Oct. 20.

3342. Cuckoo (*Chrysococcyx*). ♂. testes somewhat enlarged,
^{*capensis*}
Stomach contents: caterpillars. Rather common here.

3343. Large rufous-breasted Kingfisher (*Ceryle*). ♂. t. n. e.
^{*maxima*}
Stomach contents: fish. Shot along the Dunga.
Its loud harsh notes are heard from time to time
at the post.

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direction, sometimes approaching to perform a dance in mid-air, and then alighting again at a little distance.

3348. Same species as preceding. ♀ immature -

3349. ^{*Sitaga taenioptera*} yellow Weaver with black face & throat. ♂.
t.e.

On Sept 16. 1911, 5 sets of eggs of this species were collected from nests in the tall reeds fringing the bank of the R. Dunga at Faradje, each set consisting of two. Tho the different sets exhibit very great variation in color, the two eggs from the same nest are in every case very much alike. (These eggs all labelled 3349) These weavers are still nesting (Oct 21); lately I have noticed a small tree close to the water, on the lower branches of which they were building, tho their nests are more frequently placed in reeds & papyrus.

Oct. 23

3350. Honey Eater. ♂. t. n. e.

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3358. ^{*Ptylia phoenicoptera emini* Hart} Gray Weaver, with barred belly, and red wings & tail.

♂. t. e. Iris red; bill blackish, with a little blue at base, feet light brown. Crop contained grass seeds.

3359. ^{*Ptylia phoenicoptera emini*} ♂. Mate of 3358. ♀. o. e. Eyes, bill & feet colored as in ♂. Crop contained grass seeds.

This pair of weavers, the first of their kind I have seen, were feeding on the ground on a road and in a field of sesame. The body of the female was larger than that of the male.

3360. ^{*Campestris bali*} Woodpecker with red "moustaches" ♂. Testis slightly enlarged. Stomach contents: small ants & their larvae.

3361. ^{*Campestris bali*} ♂. Mate of 3360. ♀. ovary slightly enlarged. Iris pink, bill dusky, feet green. Stomach contents: small ants & their larvae.

3362. ^{*Tremula elegans*} Small yellow breasted Warbler with gray crown and white throat. ♂. immature.

3363. Red- & black Weaver (^{*Flammiceps*} *Pyromelaena*). ♂. t. e.

3364. ^{*Buccolaea chrysops*} Small Black Chat, with white forehead &

wing coverts. ♂. t. e. Stom. cont.: insect remains.

3365. ^{*Cinnyris osea-brotheri*} Tiny Sunbird. ♂. t. m. e.

During the greater part of the rainy season this

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- quite completely ossified. Stomach contents: seeds.
3373 ³³⁷² ~~Same as~~ ~~3372~~ ♀. o. e. Stomach contents: seeds.

A nest of this species was found in a mimosa tree, at a height of only 10 feet. It contained 2 pure white eggs. Deserted nests are common in the small mimosas, and have long spouts, which are probably built during the period of incubation or the rearing of the young.

Oct. 27.

3374. Small Resplendent Starling ♂. im.

Stomach contents: insect remains ^{Semiothisa} ^{sticticus} ^{chloropterus}

3375. Black Barbets with red face. ♀. o. n. e.

Stomach contents: fruit.

3376. Bee-eater. ♂ t. n. e.

5.3207. *Microceres hirundinensis* *laughlini*

3377. " " ♂ t. n. e.

3378. " " ♀. o. n. e.

3379. ^{*Hirundo smithi*} Rufous-crowned Swallow. ♀. o. n. e.

Oct. 29.

3380. Vulture (*Necrops*). ♂. testis slightly enlarged.
^{*Necrops*} ^{*monachus*}

Present during the whole year. In groups of 3 to 6 they are commonly seen high in the air, proceeding with slow, flapping flight, or circling about with their gaze

Paradise

Nov. 2. 1911.

3387. Fruit Pigeon. ♂. t. e. Crop contained berries.
An egg of this species was taken today from
a frail nest of small twigs placed on a
bough projecting out over the river, and
only about 7 feet above the water. The
present specimen was sitting on an
empty nest, in an adjoining tree.

Nov. 3.

3388. Wattled Lapwing. ♀. ovary slightly enlarged.
Africops s. schlegelii.
Yesterday this species was observed for the
first time since June.

3389. ^{*Myiophobus montezini*} Weaver. ♂. t. e.

3390. ^{*Euliotista trachyura*} Short-tailed Warbler. ♀. e. n. e.

3391. Large red- & black Weaver with thick bill. ♂.

- ^{*Pyrenestes*}
^{*p. ostrinus*} tests somewhat enlarged. Crop contained seeds.
Shot in small swampy wood.

3392. Small red-breasted Sunbird. ♂. t. e. ^{*Cinnyris*} ^{*chrysopygus*}

Nov. 5. ^{*Meesphorus goentae poicephalus*}

3393. Red-rumped Woodpecker. ♂. testes slightly
enlarged. Iris dark brown.

3394. ^{*M. go. poicephalus*} Mate of preceding. ♀. ovary slightly enlarged.
Iris dark brown.

3395. Weaver. ♀. ovary slightly enlarged. Iris dark

3391. ^{*Pyrenestes*} ^{*ostrinus*}

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grass and scrub. Now our feathered guide would fly noisily ahead of us till out of sight (50 yards or so) and then perch on the top of a bush till we came up; and then repeat the performance. After a few hundred yards we found that another honey guide, also a male, had arrived. We had gone thus about 600 yards when both birds stoped in a small tree, hardly worthy of the name, and plainly incapable of harboring a hive. Nevertheless the indicators showed plainly, by taking short, ^{aimless} flights and returning always to the same spot, that this was the place. They were very tame, too, allowing an approach to within 10 or 15 feet. At first we were doubtful, but looking about, we heard the buzzing of bees, and found that they were going into a small hole in the ground, close to the base of a small scrubby tree ~~that~~ that on which the honey guides sat. My boy now went to fetch matches and

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I went to the spot and sat down to watch. One of the birds soon came silently to the tree, climbed cautiously down, and after a little pecking, seized a piece of the comb in his beak and flew off. After a short wait, his fellow arrived in the same timid fashion. That both birds were present is proved by the return of one after I had shot no. 3399.

This honey guide is rather common here, and said to be more so toward the north. Near Yakulukuk, the Azande, who call it "Purubwa", told Mr. Lang that in former times this bird was very strictly protected, and that any native stupid enough to kill one would have been punished with the loss of an ear.

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Nov.

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Nov.

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3408. Steganura paradisica cucullata
Widow-bird_X (Steganura ?) ♂. t. n. e.; skull not
completely ossified. Iris dark brown, bill black,
feet dark brown. Stomach contents: seeds.

With the exception of a single individual seen at
Niagara in November of last year, this is the
first I have noticed. Unlike the two common
widow birds, this species makes long protracted
flights, sometimes as far as $\frac{1}{2}$ mile, and often
attaining a height of 150 feet. Moreover they
are usually alone_X and silent, and alight on the tops
of the trees, where they can be approached
only with difficulty. The present example
was secured in a bushy pasture, where
another was observed a few days later.

Nov. 10.

3409. Wattled Lapwing with white forehead. ♂. t. n. e.
Africaya a. senegalensis.
Rather numerous at present, feeding in tilled
ground and pastures, and becoming particularly
active toward dusk.

Nov. 11.

3410. Small Resplendent Starling. ♂. t. n. e.

Stomach contents: insects. Lamprocolius chelybeus chloropterus

3411. Same as preceding. ♀. ovary slightly enlarged.
Stomach contents: insects. L. chel. chloropterus

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Nov. 13. 1911.

3417. Starling (*Creatophora*^{carunculata}?) ♂. testes slightly enlarged. Iris dark brown, bill pale pinkish white, naked cheeks yellow, naked skin of throat bluish gray, wattles on crown dark gray, feet brown. Stomach contents: berries and a tiny snail.

One of three or four found ^{for the first time} in a pasture with resplendent starlings.

Nov. 14.

3418. Gray Heron. ♀. o. n. e. Stomach contents: remains of grasshoppers and other insects. This heron seems to occur here only in the dry season, from November to about April, when it is common, often feeding on the ground in very dry spots, such as old fields, tho it likes water too. The call is loud and harsh.

3419. Starling (*Creatophora*^{carunculata}?) ♂. testes slightly enlarged. Stomach contents: berries.

3420. Starling (*Creatophora*^{carunculata}?) ♀. o. n. e. Stomach contents: berries & a grasshopper. Irides dark brown, cheeks yellow, naked skin of throat gray, bill pale pink, feet brown.

3421. Starling (*Creatophora*^{carunculata}?) ♀. o. n. e. Stomach

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by a medley of harsh sounds. A single nasal "caw", strongly suggesting that of *Corvus ossifragus*, tho not so loud, is also uttered.

Yungipicus obsolitus
3427. Small Gray Woodpecker. ♂. t. n. e. Irides dark red.

3428 Black Titmouse with white wing patches. ♂.
Melanerpes niger leucometas
t. n. e. Irides yellow. Stomach contents: some small caterpillars & beetle larvae.

3429. Black Titmouse with white wing patches. ♀.
o. n. e. Irides yellow. Stomach contents: several small naked caterpillars.

3430. Resplendent Starling. ♂. testes slightly enlarged
5.3412. *Lamprolaima chalcidina*
Stomach contents: a berry and pieces of insects.

3431. Starling (*Creatophora*?) ♂ im.

Nov 16.
3432

"

"

♀. ovary slightly enlarged.
Stomach contents: berries

3433.

"

"

♀. o. n. e. Stom. cont. a little fruit & pieces of a cricket.

Members of a flock of 12 or 15, found in the same pasture as no. 3417. Their habits are like those of the resplendent starlings, with whom they mix, both kinds often alighting on the ground.

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small. The gular wattles are also present in no. 3432, a female, tho practically absent in 3417, an adult male.

Nov. 17.

3437. Widow-bird (Steganura ~~?~~ paradisea aeneifrons) ♂ imm. testes somewhat enlarged. Crop contained grass-seeds. Iris dark brown, bill black, feet dark brown.

3438. Widow-bird. (Steganura ~~?~~ paradisea aeneifrons) ♂ imm. testes slightly enlarged. Stomach contained seeds.

Members of a party of four, sitting on the dry bushes in a recently-burned area. All were in brown plumage. Since then I have seen birds in this plumage feeding on the ground.

3439. Black Titmouse with white wing-patches. ♀.
Melanerpes niger laevis
o. n. e.

3440. ^{Anthus trivialis} Pipit. ♀ imm. Stomach contained small seeds & insect remains.

3441. ^{Hirundo erythrogastra} Rufous-crowned Swallow. ♂. testes slightly enlarged.

3442. Mate of 3441. ♀ imm. o. n. e.

3443. Small Resplendent Starling. ♂. t. n. e.
S. hel. chloropterus

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3456. Black & white Widow-bird. ^{*Vidua sarana*} ♂. t. e.; skull not quite completely ossified. Crop contained tiny seeds. (Post-nuptial molt just commencing)
3457. Blue-gray Falcon. ♀. ovary slightly enlarged. ~~*Bubo*~~ ^{*Bubo*} ~~*abdosceus*~~ ^{*abdosceus*}. Stomach contained a few pieces of beetles. Iris dark brown, orbits cere & corners of mouth yellow, beak horn-blue with black tip, feet yellow, claws black with bluish gray bases.
3458. ^{*Budytes carolinensis*} Weaver. ♀. ovary slightly enlarged; skull not completely ossified.
3459. Brown Flycatcher. ♂. t. n. e. *Bradornis pallidus subalaris*
3460. Nightingale. ♀. o. n. e. skull not quite completely ossified. ^{*Luskinia megarhynchos*} Evidently a migrant from the north; arrives early in November, shuffles in dense bushes, giving harsh notes and a somewhat broken song. ^{leaves in March}
- Nov. 21.
3461. Hoopoe. ♂. testes slightly enlarged. ^{*Upupa corollaris*}
3462. Widow-bird (*Vidua*) ^{*sarana*} ♂ im. testes somewhat enlarged. Not an adult molting out of breeding plumage, for the brown feathers are older & more worn than the black.
3463. Chat. ♂. t. n. e. Stomach contents: seeds & remains of insects. (*Saxicola rubetra*)

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3

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3464. ^{*Campylorhynchus phoeniceus*} Barred Cuckoo-shrike. ♂ im. Stomach contents:
small naked caterpillars and a bug.

Nov. 22.

3465. Roller (*Coracias*) ^{*abyssinicus*} ♀. o. n. e. Stomach contents:

green grasshoppers. These long, slender
grasshoppers are very fatty, and highly

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esteemed by natives as food. Today they
were very numerous in an open grassy
situation not far from the post, and
a number of natives ^(Chile Logo) were engaged in their
capture, while a flock of lutes (*milvus*
^{*parasiticus*} *egyptiacus*) hopped about, swooping
down from time to time, catching the
flying insects in their talons, and
eating them on the wing.

3466. ^{*Dryocopus aeneus*} Warbler. ♂ t. n. e.

3467. ^{*Ptyilia phoeniceptera emini*} Weaver. ♂. testis slightly enlarged. Iris red.
Stomach contents: grass-seeds.

3468. ^{*Cisticola lugubris*} Warbler. ♀. o. e. Stomach contents: remains
of a small green grasshopper & other insects.

Shot in a grassy marsh ^{*carex*}

Nov. 23.

3469. Starling (*Creatophora*) ^{*coronata*} ♂. testis slightly enlarged
Stomach contents: berries. (Gular wattles
small. Of the wattles on the crown, the anterior

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is placed transversely, the posterior longitudinally.

3470. Resplendent Starling. ♀ im. Stomach contents:
S. 3412. ^{*Hemiprocne chalcidius*}

berries. (This species was observed at Ala in Dec.)

3471. Starling (*Creatophora*?) ♀ im. Stomach contents:
^{*corunculata*}
small termites & berries.

3472. Creeper. ♀. ovary slightly enlarged, but skull
^{*Salpinctes obsoletus*}
not completely ossified.

3473. Black Sunbird, ^{*Chalcoptrix senegalensis*} with large red breast patch. ♂. testes
slightly enlarged. Stomach contents: a leaf-hopper,
other tiny insects, and a small spider.

3474. Streak breasted Kingfisher. ♀. ovary slightly
enlarged (*Haleyon chalciti*)

Especially noisy at dawn and sunset,
its note being characteristically divided into
two parts, and often repeated. In spite of
considerable variation in its length, it
may usually be represented as
"tirrrrrrr — rrruh!" Like *H. senegalensis*,
when two individuals perch close together
they may sit ^{for a time} with outspread wings and
reiterated calls.

3475. Starling (*Creatophora*?) ♂. testes slightly en-
^{*corunculata*}

Paradise

Nov. 23. 1911.

larged. Stomach contents: fruit.

3476. Small Wood Hoopoe. ♂. testes slightly enlarged.
Scopetetus atrinervis emini.

Stomach contents: a caterpillar.

Nov. 22.

3477. Hawk (Melierax) ♀. ovaries not enlarged.
M. mitabodes.

Stomach contents: a lizard and several of its eggs. Occurs here in dry season. First seen today.

Nov. 24.

3478. Quail (Excalfactoria) ♀. ovary somewhat enlarged
Iris reddish brown, maxilla dusky, mandible
bluegray, feet yellow. Crop contained small
hard seeds. Shot on the edge of a marsh
where the grass had been burned almost
3 months previously, and a new growth
of green grass, not yet waist high, had
sprung up. It could be flushed only with
difficulty, tho when on the wing it flew
strongly and directly, with swift moving
wings, very like Coturnix.

3479. Sarothra (S. L. L.?) Red-headed rail. ♂. testes slightly enlarged.

Stomach contents: small seeds. Shot near
same spot as no 3478.

3480. Long-tailed Boatwaker. ♀. ovary slightly
Scotomys alimacurus
enlarged. Stomach contents: 13 small dung-
beetles.

p. 500
Parady

Nov. 26. 1911.

3481. Small Gray Woodpecker, ^{*Ymaeopicus abietinus*} ♀. ovary not enlarged.
Stomach contained a small caterpillar and remains of insects.

3482. ^{*Psyllia phoenicophora emini*} Weavers. ♀. ovary somewhat enlarged. Crop contains small termites. Common at present about roads and cleared or burned places. (also common at Aba in Dec., even on the hills.)

3483. Stone Curlew. ♂. t. n. e. feet grayish green. Stomach contents: dung beetles & remains of a few other insects. This bird first began to call again in the evening in early November. I had not seen one since June, and am not sure that they remain here during the rainy season. At present they are rather numerous and noisy about the post during the evening.
(Mordjan)

3484. Least Bittern. ♀. ovary slightly enlarged.
^{*Proberychus paysoni*}
Sitting on a tall grass stalk in a swamp, at sunset.

3485. Shrike, ^{*Dryocopus cinereus*} ♂. testes slightly enlarged. Stomach contents: a caterpillar and remains of insects.

Nov. 27.
3486. Large Black & white Hornbill. ♀. ovary slightly enlarged. ^{*Bycanistes subcylindricus*} Iris medium brown. lighter around outer edge, orbits whitish; softer skin on feet

Faradje (Mordjan)

Nov. 27. 1911.

In Barnes' motion pictures
from E. Africa, oxpeckers
are seen on Hippos and on
Antelopes. In Akelays Chicago
groups, I believe, they are
shown on certain antelopes.

In 1937 I saw yellow-billed oxpeckers
on hippos in Rutchurn River - TPC

Iris red, bill black, feet purplish pink with
dusky brownish claws. Stomach contents: a
brown grasshopper and remains of other
insects. A forest bird; the first example
seen since Medje. While perching it
wags its tail from side to side.

Paradje (Mordjan)

Nov. 27. 1911.

blue gray, soles yellowish, large scales and claws blackish. Stomach contained fruit.

3487. Rhino Bird. ♂. t. n. e. Iris orange, outer half of ~~Bill~~ ^{Buffbege} ~~Bill~~ ^{fringe} red, basal half yellow, feet dusky brown.

Stomach contained many short hairs and some small slender seeds.

One of three that came back to a buffalo after it had been shot. These birds accompany both rhinos and buffalos, and are said to be very wary, their cries at the approach of a man alarming their hosts. They do not come to cattle here, as far as I can ascertain.

3488. Wood Shrike. ♂. t. e. Stom. cont.: a grasshopper ^{Nicator chloris}

3489. " " ♂ t. e.

3490. Flycatcher with black back and white rump and under surface. ♂. testes somewhat enlarged. Iris red, bill black, feet purplish pink with dusky brownish claws. Stomach contents: a brown grasshopper and remains of other insects. A forest bird; the first example seen since Medje. While perching it wags its tail from side to side.

Paradje (Mondjan)

Nov. 27, 1911.

3491. Same as preceding. ♀. ovary slightly enlarged. Iris red. The female also wags her tail from side to side.

3492. A brown thrush-like bird (Timeliidae?).

Turdinus

♂. t. e. Iris brown, maxilla dusky, mandible blue gray, feet flesh color. Stomach contained a spider.

A bird of the underbrush in forest. Its song, heard commonly during the very early morning, consists of 6 semi-musical notes uttered in rapid succession, the whole being repeated at short intervals.

Rather common in a wood midway between (on village of Marapiti or Madrapiti) Paradje and Alba, where it was heard in early October as well.

3493. ^{Stegophanes vulpinus} ♀. ovary slightly enlarged. Stomach contents: a small snail & insect remains. A forest bird; as might be expected from its broad bill and short feet, its habits are those of a flycatcher. The song is a whistled "tétretétretétreté....."

3494. ^{Articulus} Cossypha. ♀ juv. Iris dark brown; bill dusky brownish, corners of mouth yellow.

Faradje (Mordjan)

Nov. 27. 1911.

feet flesh color. Stomach contents: insect remains and shell of a tiny snail.

Adults of this species have been heard to imitate the low "tüt-wè" call note of the guinea fowl (*Numida*), and also the notes of the yellow-headed oriole such as No. 3267.

3495. ^{*Campylorhynchus capoli*} Brown-cheeked Woodpecker. ♀. ovary somewhat enlarged. Stomach contents: small black ants and their larvae.

One of a pair found in the woods near the rest-house of Mordjan. This is a forest bird, and has never been noticed near the post of Faradje.

3496. ^{*Audubon's sp.*} ♀. o. m. e. skull not quite completely ossified. Iris red. Stomach contents: insects.

- Nov. 28.
3497. ^{*Halcyon senegalensis*} Kingfisher. ♀. o. m. e. Stomach contents: 2 large mantis & a green beetle.

3498. ^{*Myiophobus nigricollis*} Weaver. ♂. testes somewhat enlarged. Stomach contained insect remains.

3499. ^{*Myiophobus nigricollis*} Weaver. ♂. imm. Stomach contents: insect remains.

3500. ^{*Myiophobus nigricollis*} " ♂. imm. " " " " " "

Nos. 3498-3500 were members of a flock feeding in the undergrowth near a brook.

Faradje (Mordjan)

Nov. 28. 1911.

in the forest.

3501. ^{*Diaphorophya castanea*} Small Black- & white Fly catcher, with white over eye. ♂ testes slightly enlarged.

3502. Same as preceding. ♂. testes slightly enlarged. Collected in woods near rest-house of Mordjan, where they were not uncommon. Both sexes fly noisily. The call is low, short, and hoarse. Mounted for Congo Forest group.

3503. ^{*Cyteropus* sp.} ♂. testes slightly enlarged. Stomach contained a white coleopterous larva & pieces of insects. At present these birds make little or no noise.

Nov. 27.

3504. ^{*Andropadus* sp.} ♀. o. n. e. Stomach contents: small insects. A common bird in the wood near Mordjan.

Nov. 29.

3505. ♂. t. e. Stomach contents: insect remains.

53493. ^{*Turdinus*}

3506. ♀. ovary somewhat enlarged. Stomach contents: insect remains

53492. ^{*Turdinus*}

3507. ♂. t. n. e. ^{*Chela asyndactyla wosnesenskii*} Stomach contents: remains of a grass-hopper and other insects.

3508. Large Resplendent Starling ^{*Lamprocolius apiculatus*} ♂. testes slightly enlarged. Stomach contents: fruit. Common in the wood near Mordjan, also at Aba. Not yet observed at post of Faradje.

3509. ♀. o. n. e. Stomach contents: pieces of small insects. ^{*Phyllastrephus scandens orientalis*} Very common and noisy in wood near Mordjan. Not noticed near Faradje post.

Faradje. (Mordjan)

Nov. 30. 1911.

3510. ^{*Burnesia reichenowi*} Blue-gray Warbler with white throat. ♀ o. n. e.
Stomach contents: insects. About the
post at Faradje it occurs sparingly in bushes
near water. They usually form parties
of 5 or 6, which utter, in place of a song,
excited "cheeping" notes, two or more birds

together.

American Museum 59907 of Natural History.

Diaphorophyes castanea ♂
Faradje M. Nov. 28. 1911.

Long-Clayton

Bleber pyndestyle woomam

3511. ^{*Andropedus sp.*} ♂. Stomach contents: pieces of beetles.
3512. ^{*Andropedus sp.*} *Cosaypha* ♂ juv. Stomach contents: remains
of a mantis & other insects.
3513. ♂. testes slightly enlarged. Stom. cont.: a spider.
Fairly numerous in wood near Mordjan,
not observed near post of Faradje.
3514. Small yellow bellied Sunbird. ♂. testes
^{*Anthreptes collaris hypodileus*} slightly enlarged. Stomach contents: insects.
A forest bird from wood near Mordjan.
3515. ^{*Andropedus sp.*} ♂. testes slightly enlarged. Stomach contents:
insects.
3516. ^{*Stegorhinus vespina*} ♀. o. n. e. Stomach contents: beetles.
3517. Kingfisher. ♀. o. n. e. Stomach contents: a mantis.
^{*Halephon senegalensis*}
3518. Red Crested Plantain-eater. ♂. t. n. e. St. cont: fruit
^{*Muscophaga rosae*}
One of a pair found in wood near Mordjan.
3519. White crested Plantain-eater. ♀. ovary slightly
^{*Turdacus leucophus*}

Paradje. (Mordjan)

Nov. 30. 1911.

3510. ^{*Bumelia reichenowi*} Blue-gray Warbler with white throat. ♀ o. n. e.

Stomach contents: insects. About the
forest at Paradje it occurs sparingly in bushes
near water. They usually form parties
of 5 or 6, which utter, in place of a song,
excited "cheeping" notes, two or more birds
calling together.

3511. ♀. o. n. e. ^{*Bekia pyrocephala woodhousei*} Stomach contents: pieces of beetles.

3512. ^{*verticalis*} *Coscyphus*. ♂ juv. Stomach contents: remains
of a mantis & other insects.

3513. ^{*Andropedus* sp.} ♂. testes slightly enlarged. Stom. cont.: a spider.
Fairly numerous in wood near Mordjan,
not observed near forest of Paradje.

3514. Small yellow bellied Sunbird. ♂. testes
^{*Anthreptes collaris hypoleucus*} slightly enlarged. Stomach contents: insects.
A forest bird from wood near Mordjan.

3515. ^{*Andropedus* sp.} ♂. testes slightly enlarged. Stomach contents:
insects.

3516. ^{*Stegothraupis virens*} ♀. o. n. e. Stomach contents: beetles.

3517. Kingfisher. ♀. o. n. e. Stomach contents: a mantis.
^{*Halcyon senegalensis*}

3518. Red Crested Plantain-eater. ♂. t. n. e. St. cont: fruit.
^{*Muscophaga rosalia*}
One of a pair found in wood near Mordjan.

3519. White crested Plantain-eater. ♀. very slightly
^{*Turdus leucophus*}

Faradye (Mordjan)

Nov. 30. 1911.

enlarged. Stomach contents: fruit. Common in wood near Mordjan, where the notes of the green-headed, forest ^(T. emini or a near ally.) Turacus, were also heard today. We also heard the call of the large Corythoeca, and have seen the gray Schizorhis; so that the five species of plantain-eaters occurring at Niangara are also to be found here, tho about the post of Faradye only the gray and white-crested species are to be seen.

3520. Hoplopternis ^{spinosa} ♀ ad. Was walking on the ground near the houses at the post, ^{of Faradye} This is the first time we have seen it.

3521. Large Black & White Hornbill. ♂. t. n. e.
Bycabites subcylindricus.
Irides brown, orbits dusky, bill and anterior half of casque blackish, basal half of casque whitish above, soft skin on feet blue gray, larger scales & claws blackish, soles yellowish.

3522. Same as preceding. ♀. ovary slightly enlarged.
B. subcylindricus
From wood near Mordjan, never noticed about post.

Dec. 2. Myadestes occidentalis capitellus

3523. Red-rumped Woodpecker. ♀. ovary slightly enlarged.

3524. Weaver (Amblyospiza) ♂. t. n. e. St. cont.: seeds.

Paradje (Mordjan)

Dec. 2, 1911.

3525. ^{*Campephaga phoenicea*} Red-shouldered Cuckoo-Shrike. ♂. t. n. e.

Stomach contained insect remains.

3526. ^{*Myobuteo leucolaimus*} Small yellow- & black Barbet. ♂. t. n. e.

Stomach contained fruit & insect remains.

3527. ^{*Megabyas striatatus*} Flycatcher. ♂. testes very small. Iris red.

1.3490.

3528. Barbet (*Tricholaema*) ^{anorga} ♀. ovary slightly enlarged

3529. Hoopoe. ♀. ovary slightly enlarged. ^{the hooper has sacrificed tendons in legs & wings} *Upupa* ^{*sonalensis*}

3530. Blackish Sunbird, with throat & upper breast metallic green. ♂. t. e. Collected in wood

near Mordjan. A forest species, not yet seen near post.

3531. Large Black & white Hornbill. ♂. testes *Bydanastes subcylindricus* slightly enlarged. Stomach contents: fruit.

3532. Mate of No. 3531. ♀. ovary slightly enlarged.

Stomach contents: fruit.

During a week's stay near Mordjan, we saw about 8 of these hornbills. They are forest birds, going usually in pairs, and perching in the high trees. The flight is noisy, and, ^{both sexes} ~~they~~ utter a loud mournful note, slowly repeated (resembling that of *Ceratogymna*), or a hoarser, shorter, reiterated call.

Faradje (Mordjan)

Dec. 3. 1911.

3533. Drongo. ♀. o. n. e. ^{Dicurus adimilis divaricatus} Irides red.
3534. " ♀. o. n. e. ^{D. a. divaricatus}
3535. ^{Macopicus gortae poicephalus} Red-rumped Woodpecker. ♀ ovary slightly enlarged. Stomach contained a white grub & insect remains.
3536. Red-crested Plantain-eater. ♂. t. n. e. ^{Muscophaga rosalia} Stomach contents: fruit.
3537. Same as preceding. ♀. o. n. e. Stomach contents: fruit.

They still call, tho it is perhaps during June and July that they are most noisy.

3538. Macrodipteryx macrodipterus. ♀. o. n. e. Stomach contents: 3 green grasshoppers & a moth. ^{= longipennis}

This evening, from sunset till 10 o'clock we walked from Mordjan to ~~Faradje~~ ^{Rembe}, coming back to Faradje. It was on an adjacent stretch of this same road that I counted 28 examples of Macrodipteryx vexillarius on July 11th last. Tonight the moon was full, and again I could count the night jays, which have of course entirely changed with the season. About 20 were seen in all, of which a dozen were the long-tailed Scotomis,

Paradje (Mordjan)

Dec. 3. 1911.

3 adult males of *M. macropterus*, while the remainder were difficult to identify, the probably females and immature males of *M. macropterus*. The season of activity of this latter species is just beginning, and the dry season has just set in in earnest. After the first two hours of darkness most of the nightjars seem to retire from the road, probably they have eaten their fill, but toward morning they are again to be seen there.

Nov. 30.

3539. Wood Owl (*Syrnium*) ♀. ovary much enlarged.

~~*Strix nuchalis*~~

Stomach contents: remains of beetles & orthopterous insects. Shot in wood near Mordjan, as it was being mobbed by drongos and birds like No. 3509. (A young owl of this species, just well enough grown to leave the nest, was brought to the post by a native on Feb. 14. 1912.)

Dec. 4.

3540. Red- & black Weaver (^{*Flammiceps*} *Pyromelaena*) ♂ t.n.e.
(in post-nuptial molt.)

Now is the season when many of the weavers assume dull-hued plumages. The black widow-birds are fast losing their long

ParadisiDec. 4. 1911.

rectrices and somber body plumage, while many of the related species have practically completed the molt. (But males of *Hypochera* are still completely black, and widows like No. 3408 must molt very late, for one was seen in full breeding plumage at Aba on Dec 13 th.)

Dec 7.

3541. Ring Plover. ♀ o. n. e. Common here at present.
Charadrius dubius curonicus. *Cylinus tridactylus*

3542. Black Barbet with red face. ♀ ovary slightly enlarged. Stomach contents: fruit.

3543. Long-tailed Goatsucker. ♂. testes somewhat enlarged. *Scotomus climacurus*

(photo) Shot during the morning in a papyrus swamp, where two of them were spending the day. This is an unusual situation, but in places the papyrus had been cut and broken down by workmen in search of material for house building, the papyrus stalks, properly beaten and twisted, serving as cords, while they are also split to make baskets.

Aba(Between Mordjan & Djibiri)Dec. 10. 1911.

3544. Small Wood Hoopoe. ♂. testes slightly enlarged.

Scopelus aterrimus emini

Stomach contents: remains of insects & 2 small

Alba (Mordjan to Djahiri.)

Dec 10. 1911.

caterpillars.

3545. Hoopoe. ♂. testes slightly enlarged. Stomach
Upupa smalensis
contained many ant-lions. Flew up from
the road before us. Now that the rains have
ceased, there is much dry sand on the road,
and ant-lion pits are very abundant.

3546. Creeper. ♀. ovary slightly enlarged; but skull not
Geopelia striata
completely ossified. Stomach contents: small
insects.

3547. 3 small yellow-breasted ^{*serinus mozambicus barbotus*} Finch. ♀ imm.
Alba (Mordjan to Djahiri) Dec. 11.

3548. Kestrel. ♂. t. n. e. Stomach contents: a lizard
Cercheria t. timmuculus
and large grasshoppers. (Kestrels are very common
at present both at Faradje & Alba.)

Dec. 12.
3549. Thrush (Monticola) ♂. t. n. e. Stom. cont.: insect remains

3550. " " ♂. t. n. e. Iris dark brown,
bill mostly blackish, but dull yellowish gray
beneath base, feet dark brown. Stomach contents:
fruit & remains of small insects.

In July we noticed none of these thrushes
at Alba, but during the present visit counted
about 8 in all. They perch quietly in the
small trees on the hills, and are so tame
as to be approached with ease. I heard no
notes uttered.

Ala (Vill. Ibr.)

Dec. 12, 1911.

3551. Swallow (*Riparia rufigula*). ♂. testes slightly enlarged
3552. " (" "). ♀ ovary " "

Common about the hills at Ala, occasionally alighting on steeply sloping rocks. Silent.

3553. Swallow (*Hirundo puella*). ♀. o. n. e. Seen frequently about the hills, often very high in the air. Seems not yet to be nesting.

3554. Crested Cuckoo. ♂ t. n. e. Stomach contents: hairy caterpillars. Not uncommon at Faradje and Ala; its call, frequently heard during the rainy season, commences with a slowly uttered, hollow-sounding "keer, keer, keer, keer..." After this note has been repeated about a dozen times, it hesitates a moment, and changes abruptly to a rapid series of short, reiterated notes, "kwi-kwi-kwi-kwi..." to the number of 20 or more, dying out gradually towards the close.

3555. Small Brown Bunting. ♂. t. e. Irides dark brown, ^{*Tringoides septentrionalis*} maxilla mostly dusky brown, mandible yellow, feet buff. Crop contained grass seeds.

3556. Same as preceding. ♀. o. e. Irides dark brown, maxilla dusky brown, mandible & feet buff.

Dec. 13.

3557. Hoopoe. ♂. testes slightly enlarged. Stomach contents: several ant. lions and a small caterpillar.

3558. Hoopoe. ♀. o. n. e.
Upupa corallensis

Alba (Vill. Ihu.)

Dec. 13, 1911.

3559. *Macrodipteryx macrodipteryx* ^{= longipennis} ♂. t. n. e.

Often flushed ^{in the daytime} about the bases of the hills, frequently in places where the grass had been freshly burned. The more exposed rocky parts of the hills are occupied by the gray goatuckers like no. 3589.

3560. Small Brown Bunting. ♂. t. e. Crop contained *Tringillaria septemstriata* grass seeds.

3561. Small Brown Bunting. ♂. t. e. Crop contained *Tringillaria septemstriata* grass seeds.

Also not noticed in July, these buntings are abundant ^{on the hills} at present, hopping on the rocks, or perching in the small trees and bushes. The song is a simple repetition of a few short notes that can hardly be called musical.

3562. ^{*Oxyphaps* *baglafocht* (Vicill.)} Black-masked Weaver. ♂. t. n. e. Stomach contents: green seeds & a few insect remains. Irides dull yellow.

3563. Bee-eater ^{*Microcerops hirundinaceus leuglini*} ♂. t. n. e. Shot in plantation at base of hill, 2 more seen in same place on following day.

Dec. 14. 3564. Partridge. ♂. testis slightly enlarged. Iris *Ptilopachys petrosus annini*. medium brown, feet, orbits, and base of bill carmine, tip of bill brown. One of a pair

Aba (Vill. 3 br)

Dec 14. 1911.

found on the top of a rocky hill where there was much high grass between the boulders, and many stunted trees. Another pair was seen on a neighboring hill. I have heard no call that I could attribute to these birds.

3565. ^{Thamnolaea sp.} Rock Thrush. ♀ o.n.e. With her mate she was sitting under a ledge at the top of a perpendicular cliff, some 50 feet high. The male was singing lowly. Sometimes the song of this thrush reminds me of the white-crowned *Cossypha* in the wooded swamps, at other times it seems to resemble that of the black thrushes with white wing patches that inhabit cultivated ground and other open places. I believe they are less musical and active than they were last July.

3566. Thrush (*Monticola*)^{sp.} ♂ t.n.e.

3567. " (") ♀ o.n.e. Stomach contained many ants. As compared with thrushes like No. 3565, these birds are extremely tame.

Alba (Vill. 3 hr.)

Dec 14. 1911.

3568. ^{*Egamdagae Alex.*} ^{*Pseudocircola Lönberg*} Gray Flycatcher. ♂. testis slightly enlarged. Irides dark brown, maxilla dusky brown, mandible buff, feet dusky brown. Seen frequently on the hills during this visit to Alba.

3569. Quail (*Excalfeatoria*) ♂ im. Caught in a pasture near 3 bu's village.

3570. Small Crested Lark. ♂. testis slightly enlarged. ^{*Delichon modesta*} Stomach contents: small seeds. Fairly common about the hills. At this season its haunts are invaded by European pipits, buff-bellied pipits and yellow-breasted Wagtails.

3571. "Flycatcher-Shrike". ♀. o. n. e. Skull not quite completely ossified. ^{*vilans aff.*}

3572. Swallow (*Chelidon*) ♀. o. n. e. ^{*Delichon urbica*} Two of these swallows were seen flying about a hill in company with many ^{of the} buff-throated species like No. 3573, and alighting on some sloping rocks warmed by the afternoon sun. ^{(martins were rather numerous at} ^{basuras in Apr. 1912. Seemed to be} ^{rather fond of flying about the hills.}

3573. Swallow (*Riparia rufigula*). ♂ im.

3574. Small Brown Bunting. ♀. ovary somewhat enlarged. ^{*Tringularia septemstriata*}

3575. Brown Warbler. ♀. o. n. e. ^{*Cisticola petrophila*}

Do MCZ in
change.
Feb 6. 1928

Alba (Vill. - 3bu.)

Dec 14, 1911.

3576. Brown Warbler, ♂ im. Characteristic birds
Cisticola patophila
of the hills, running actively over the rocks
with tails cocked up like wrens.

3577. ^{Phoenicurus familiaris molisii}
♂. t. e.
s. 2987.

3578. Same as 3577. ♀. o. n. e. Stomach contained
remains of a grasshopper and other insects.
Several were seen about the hills, perching
in small trees, and wagging their tails.
European redstarts are fairly numerous
at this season, their tails quiver from
time to time. Whin ^{nyes} chats, so common
here in the dry season, are also to be seen
commonly on the hills.

3579. Kestrel, ♂ im. t. n. e. Stom. cont.: grasshoppers.
Dec. 15. Circus ^{z. tinnunculus}.

3580. Lesser Kestrel, ♂ im. t. n. e. Irides dark
Circus naumanni.
brown; orbits, cere, and base of bill yellow;
bill blue gray; feet yellow, claws light yellow.
Stomach contained a grasshopper.

3581. Streaked Rufous Falcon, ♂. testes slightly
Circus alopec ^{alope}
enlarged. Iris pale buff; orbits and cere
light greenish gray; bill bluish gray at base,
black at tip; feet yellow; claws black.
Stomach contents: grasshoppers.

Alba (Vill. Ibr.)

Dec. 16. 1911.

3582. Streaked Rufous Falcon. ♂. t. n. e.
Cerchneis a. alopec.
3583. " " " " ♂. t. n. e. Stom. cont.:
a grasshopper.
3584. " " " " ♀. o. n. e. Stom. cont.:
a grasshopper.
3585. " " " " ♀. ovaries slightly enlarged

These falcons seemed fond of the hills, but were shy except when attracted by our setting fire to the grass. Then in company with kites & European kestrels they ^{boldly} came to catch the grasshoppers put up by the flames. To eat their prey they would alight in a tree, tho the kites ate during flight. Mr. Lang saw one alight on the bare rock. The flight and call are kestrel-like, tho the latter is hoarse. Today I saw about ten. [See note under No. 4529.]

3586. Kestrel. ♀. ovaries not enlarged.
Cerchneis t. tinnunculus Hirundo puebla
3587. Streak-breasted Swallow. ♀. o. n. e.
3588. Wood Hoopoe. ♀. o. n. e. Phoeniculus porphyreus
niloticus
3589. Large Gray Goatsucker. ♂. t. n. e. At this
Caprimulgus trimaculatus tristigma
season too they may be heard calling at dusk

and a little before dawn.

Dec. 17. 1911.

3590. Hawk (Accipiter) ♀. ovary slightly enlarged.
Aster spurius fasciatus
Irides bright yellow, orbits yellow, cere green

Alba

Dec 17. 1911.

bill black with bluish base; feet yellow, claws black.

Dec 18.

3591. Yellow Wagtail with black crown. ♂. t. n. e.

Eudytes flavus melanocephalus
Shot in a small muddy swamp near the
foot of Alba.

3592. Large Bustard. ♀. o. n. e. Stomach contents:
Otus arboreus.

many large black ants & beetles, a few bugs
& caterpillars, and some red berries. A bird of the
dry season, arriving in the latter part of November, and feeding
amid burned grass, or in other open spots. Probably breeds here.

Dec. 19. (near Frontier N.E. of Alba) "Libugos"

3593. Wheatear. ♂. testes very small. Several seen
Oenanthe o. oenanthe.
on hills today.

3594. Hawk (*Accipiter*) ♂. testes very small. Stomach
Accipiter sphenurus.

contents: remains of a lizard and a small
bird. Irides yellow, rim of eyelids, cere, &
corners of mouth yellow, bill blackish, feet
yellow, claws black.

3595. *Eudytes leucocephalus*
White-headed Barbet. ♂. t. n. e.

3596. *Eudytes leucocephalus*
" " " ♀. ovary slightly enlarged
Stomach contents: fruit. Members of a
party of five that frequented some large
trees at the foot of a hill. These barbets
seldom go singly. The flight is well
sustained and rapid, with swiftly beating

Aba (near Guntur)

Dec 19. 1911.

wings. The characteristic notes are somewhat metallic, but not short; being uttered in a series, starting strongly, but dying gradually out. (See note under 4101.)

3597. White-necked Stork. ♂. Testes not enlarged.

Dissonia microscelis

Stomach contents: a soft mass of vegetable (?) matter, enclosing remains of a large grasshopper and a few other insects & insect-larvae.

With one other of its kind, it alighted nearly on top of a high rocky hill, where a little water oozed out over the face of a large sloping rock. Not very common; we have no record of their occurrence in the rainy season.

Dec. 20.

3598. Hoopoe. ♀. ovary slightly enlarged.

Upupa smalensis

Usually we have found hoopoes very shy, but on a freshly burned hillside there were three that showed but little fear of man. The males utter a soft, low, "hoo-poo-poo" and a hoarse "hawing" noise. The flight is often undulating like a woodpecker's, with depressed crest,

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Alba (near Antioch)
NE of post.
Dec. 20. 1911.

while the latter may be erected while
perching, or not.

3599. ^{Cyrtus leucogaster} White-headed Barbet. ♂. t. n. e. Stomach
contents: fruit.

3600. Small yellow-bellied Sunbird with elongated rectrices.
^{Hedydipna platyura} ♂. t. e. Stomach contained a very small spider.
Iris dark brown, bill & feet black. First
observed on Dec. 10. Does not seem to visit
flowers, ^{much,} but prefers the bushes and trees in
freshly burned spots. 5 or 6 seen today on
hillsides.

3601. *Macrodipteryx macrodipterus*. ♂ [imm.] t. n. e.
^{= longipennis}

3602. Small Brown Bunting. ♂. imm. (in juvenal pl.)
^{Tringularia septentrionalis}

3603. " " " " ♂. t. e.

(Photo)

The nest of no. 3603 was discovered by Mrs. Lang
on a flat rock of a barren stony hill. It had
tho a few prostrate grasses lay around it,
absolutely no shelter from above, and was composed
of pieces of dry moss and other plant refuse, lined with
fine dry grass-tips. The two eggs were pale greenish,
thickly covered with small, ^{reddish} brown spots, most numerous
about the larger end. The ^{incubating} ~~sitting~~ bird sat closely,
but afterwards the parents approached only with
great caution.

Alba (near Frontier)
NE of post.
Dec 20, 1911.

3604. ^{*Hyphantornis dybowskii*} Small Gray Weaver with white-spotted breast & red back & rump. ♀. o. n. e.; skull not quite completely ossified. Crop contained grass seeds.
Only a few seen.

3605. Brown Warbler. ♂. t. n. e. Stomach contents: *Cisticola petrophila* a grasshopper & small insects.

3606. Brown Warbler. ♂. t. n. e. Skull not quite completely ossified. *Cisticola semitorques* (?) Stomach contents: small insects.

Dec. 21. (near Pretoria)

3607. Rufous-winged Hawk. ♂. t. n. e. Stomach *Buteo rufipennis* contents: a few insect remains. A bird of the dry season, arriving about Nov. 1. Is attracted by grass fires.

3608. ^{*Hyliota flavigaster*} Warbler. ♂. t. n. e. Stomach contents: some insect eggs & remains of insects.
S. 2969.

3609. ♂ im. ^{*Hyliota flavigaster*} testes very small; skull almost completely ossified. Stomach contents: insect remains.
S. 2969.

3610. ♀ im. ^{*Hyliota flavigaster*} ovary small; skull nearly completely ossified. Members of a party of about 5, presumably a single family. Birds of the small trees, whose voice I have yet to hear. They have been noticed twice near Paradise.

Aba

Dec 21. 1911.

3611. Roller (Coracias) abyssinicus ♀. o. n. e. (Tail rounded, outer rectrices much shorter than others, and without dark tips). Rollers of this genus are sometimes attracted by grass-fires.

Dec 22. (Aba post to Djabini)

3612. "Flycatcher-Shrike" ♀. ovary somewhat enlarged
Nilaus afer.
Stomach contents: insect remains. Common at Aba; seems particularly fond of mimosa where it hops from bough to bough. A common note is a prolonged "heerrr", with a droning metallic effect, and I have seen a male utter a drier "kkekkekrra"

- Emecetopus gubernator
3613. Shrike. ♀. ovary slightly enlarged. Stomach contents: remains of beetles.

3614. Finch. ♂. testes slightly enlarged (singing).
52946 Ptilopus gularis elongatus
Crop contained seeds. Only example seen since last August.

- Lanius major major
3615. Shrike. ♀. o. n. e. Stomach contents: insect remains

3616. Yellow-crowned Oriole. ♂. t. e. Stomach contents: fruit. Oriolus auratus Irides red. Was singing, in brush on dry ground.

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No. 3617 (cont'd). On Jan. 26, 1912, near our Rhine group Camp, about 16 miles N.W. of Faradji, I found a nest of this red-tailed Buzzard. It was placed at a height of 25 ft or so ^{between 4 or 5 forking branches,} in one of those trees common in this region, that bear large pendent, woody fruit, resembling in form a "French loaf" of bread ^(Kigelia). It was rather bulky, and only slightly concave above, composed entirely of dry sticks, save for a lining of green leaves. The two eggs (which have been preserved) were greenish white, unspotted, and as they were slightly incubated I presume the set was complete. The old bird sat very close, and after being frightened off, came back and flew around uttering a call almost like that of *Buteo lineatus*.

In the same tree, just a little above the buzzards' nest, there were 12 or 15 nests of ^(*Sitta bengalensis*) yellow weavers. See nos 3649 + 3664.

Alba (Djahini)

Dec. 22. 1911.

3617. Hawk (Buteo) ♀. o. e. Stomach contents: a striped
rat. (See opposite page)

Paradije

Dec. 23.

3618. Bee-eater (M. nubiensis) ♂. t. n. e. After
Sept. 9, when I collected a single example, none
were observed till about Oct. 25. At present
they are common.

3619. Small yellow-bellied Sunbird with elongated
rectrices. ♂. t. e.

3620. Same as preceding (middle rectrices just coming
in). ♂. t. e.

Dec. 25.

3621. Large black- & white hornbill. ♂. testes some-
Bycollistes subcylindricus
what enlarged. Stomach contents: fruit.

3622. Same as preceding. ♀. ovary somewhat
B. subcylindricus
enlarged. Stomach contained fruit.

From wood near Mordjan.

3623. Owl (Scops) ♂. testes slightly enlarged.
capensis

Dec 28.

3624. Anastomus. ♂. testes very small. Iris dark brown
most of lamelligerus but tip of mandible gray.
bill and lower black, naked skin of throat pale purple,
feet black.

Faradye

Dec. 28. 1911.

Chalcophaps indica

3625. Sunbird, ♀ ovary slightly enlarged. Stomach contents: a little ball of rubber and remains of a few tiny insects.

Dec. 30.

3626. Owl (*Scops*) ^{*capensis*} ♂. testes slightly enlarged. For nearly three months we have been able to hear them calling almost every night, from the post. Their vocabulary is not limited to the single "metallic" note, for at close range one may sometimes hear a fainter - but shriller - note cry, and other short, low sounds. They haunt trees, both along the river-bank and off amid the high grass, and occasionally visit the grove of rubber-trees.

Dec. 31.

3627. Owl (*Scops*) ♂. t. m. c. Irides yellow, rim of eyelids greenish brown, bill dark green with blackish tip, feet light greenish gray with ^{toes} claws dusky greenish. Stomach contained remains of an insect, a spider. Shot in same spot as No. 3626, among rubber trees near post. Uttered only a hoarse "haaa - haaa" --
3628. *Macrodipteryx macrodipterus*. ♂. testes slightly enlarged. Stomach contents: 2 moths, 2 grasshoppers.

Paradise

Dec. 31. 1911.

12 small beetles, 3 leafhoppers, and 18 small bugs.

On the throat were a mosquito and an ant, the latter having fastened its mandibles firmly in the flesh. Common at present.

Alba

3629. Small black Hornbill. ♂. t. c. Secured three natives, Lophoceros fasciatus, at Alba, where they are rather common.

Paradise

Jan 1. 1912.

3630. Stone Curlew. ♂. testes somewhat enlarged.

Q. senegalensis

Stomach contained a beetle, a large earwig, and remains of other insects. Shot in the post at night. Three or four come every evening now, and are very noisy. They seem to spend the day somewhere up the river.

Jan 2.

3631. Brown Eagle (Aquila) ♂. testes very small.

Aquila rapax albicans.

Stomach contained remains of a giant rat (Cricetomys). Killed with a stick.

Jan 4.

3632. Marabout. ♀ ovary somewhat enlarged; oviduct

Leptopithecus erumiferus.

enlarged, as tho the eggs had just been laid.

Photo.

Bill greenish white, very dirty. Irides grayish brown on inner edge, shading nearly to white on outer rim. Crown, front of lores and a

Faradje

Jan. #4. 1912.

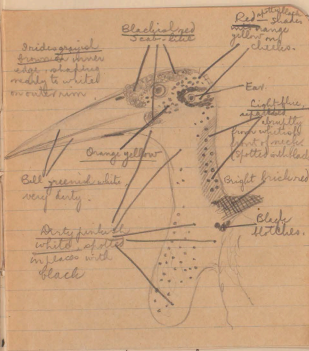
patch at each side of the base of mandible covered with a rough, blackish-red, scab-like skin. Skin below eye orange-yellow, shading to red on back of head. Back of neck light blue, separated abruptly from the dirty pinkish white on the front of neck and the pouch. Base of neck above is bright brick red.

On the head & neck are many spots of black, usually small, but forming a V-shaped mark about ear. Just below the feathers on the tibia is some soft naked skin, bright red. The scaly parts of the feet are black, but whitened with excrement.

Bangura says marabouts are scarce thru out the year, but most only in the dry season.

Thruout the last rainy season neither Mr. Bangura I saw a single marabout, but during the present month (Jan. '12), about 16 miles NW of Faradje, we found them rather numerous. Meat was purposely thrown out at a little distance from our camp, and thus we were attended most of the time by numbers of small vultures (Neophron) and sometimes marabouts and other vultures (Roplogyps & Pseudogyps). Marabouts were also attracted by grassfires. The largest number of these carrion-eating storks noticed at once was ten, flying

Faradje
Jan. 4. 1912.



sations 5 were seen to alight on a majority were always birds of last about 1 in 6 being old birds. They expected, and with caution their shot-gun range. 3 m by about so high as almost having spied carrion on the circle around, descending 1/2 far above the earth (perhaps 200 ft) an angle of 45° , the beak points a spirial descent becomes more culture already at work, it

departs abruptly. Having eaten its fill, the marabou mounts a tree, where it sits at peace with the vultures. Whether perching or walking, the attitude is usually erect, the head either drawn down when at rest, or raised when on the alert. The size of the neck pouch varying greatly.

Jan. 7.

3633.

Vulture (Pseudogyps afrafricanus) B. [imm] testes very small
Iris dark brown, bill black, skin of face & throat
dusky, that of neck very light green. feet
blackish.

Jan. 8.

3634.

Vulture (Pseudogyps). ♀ ovaries very small [imm]
affricanus.
Stomach contained carrion and pieces of dry
grass.

Paradise
Jan. 14. 1912.

over our camp. On two occasions 5 were seen to alight on a single tree, but the majority were always birds of last year (see no. 3645), only about 1 in 6 being old birds. They were not as wary as I expected, and with caution could be approached within shot-gun range. In general they seem to fly about so high as almost to escape attention. Having spied carrion on the ground, they begin to circle around, descending slowly, but when still far above the earth (perhaps 200 ft) their legs drop down to an angle of 45° , the beak points groundward, and the spiral descent becomes more rapid. If there is a vulture already at work, it departs abruptly. Having eaten its fill, the marabout mounts a tree, where it sits at peace with the vultures. Whether perching or walking, the attitude is usually erect, the head either drawn down when at rest, or raised when on the alert. the size of the neck pouch varying greatly.

3633. Vulture (Pseudogyps) afrikanus ♂. [Imm.] testes very small. Iris dark brown, bill black, skin of face & throat dusky, that of neck very light green, feet blackish.

Jan. 7.

3633.

Jan. 8.

3634.

Vulture (Pseudogyps) afrikanus. ♀. ovaries very small [Imm.] Stomach contained carrion and pieces of dry grass.

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Faradje

Jan. 8, 1912.

3635. Vulture (Lophogyps) ^{occipitalis} occipitalis ♂ [Imm.] t. n. e. Irides dark brown, top of cere light green, rest of cere and base of bill light blue, outer part of bill dull light red, bare skin of head & neck pinkish & bluish white, feet pinkish white with dusky claws.

Jan 14

3636. Large gray swift, with white throat & belly. (Cypselus) ^{melba} melba ♂. t. n. e. Irides very dark brown, bill black, feet dusky with slight purplish tinge. Stomach contents: many small grasshoppers and bugs, a few small beetles & a leaf hopper.

3637. Same as preceding. ♀. o. n. e. Stomach contents: many grasshoppers (mostly small), and a few bugs.

This morning, for the first time, I saw a few of these swifts flying high overhead, and later a flock of 50 or 60 whirling about in circles, but in the afternoon a grass-fire started by natives to scare game into the nets attracted them by hundreds. Their habits are like those

Paradisi

Jan. 14 1912.

of the other large swift already collected here (nos. 2553-2554.); they keep usually pretty high, but come flying along over the brush at terrific speed, or flocking where the fire burns hottest. Tho we stayed 2 weeks longer on the same spot, and saw several more fires, we did not observe these swifts afterward.

Jan 16.

3638. Bateleur Eagle. ♂. t. n. e. Irides dark brown,
photo *Syrnium nebulosus*.
lores, cere, and skin at base of mandible bright red, beak blackish at tip, yellow basally, feet red, claws black. (These are the colors during life; but the red of the cere, lores, and feet depends on the blood. In the present case, the cere, which is not hard as in other birds of prey, and the feet, which are covered with prominent rounded waxy scales, both turned orange soon after death, tho the cere regained its brilliant color when the bird was hung up by the feet.) Stomach contents:

Paradise

Jan. 16. 1912.

3 shrews and a piece of bone.

Tho the Batteur Eagle is a common bird of this region, I never, till this morning saw one perch, for they seem to spend most of their life on the wing, scouring the country for food. The present example uttered a very loud "caw", which is sometimes repeated at intervals. These eagles have often sailed for some time over the spot where we placed meat to attract ~~the~~ vultures, and once I saw 2 immature specimens fly up from the meat.

(On Jan. 25-12 we observed an adult Batteur Eagle with white back & tail coverts, but I believe the red-backed kind are common.)

Indicator indicator
Jan. 20. 3639. Honey Eider. ♀. o. ex Stomach contents: bees-
wax. Irides grayish brown, orbits dark gray.
bill dirty brownish, with a tinge of pink
feet dark gray slightly bluish in places.
Was calling much like a male.
(The common note of the male may best

Paradise

Jan. 20. 1912.

be written "cutta-cutta-cutta-cutta-....",
and is uttered very rapidly.

- 3640 Weaver. ♂. t. n. e. Irides dark brown,
Euphonia crassirostris.
maxilla brownish, mandible grayish white,
feet light brown. Stomach contents: seeds & a
few insect remains.

Jan. 22.

3641. Kite (Milvus), ♂. t. n. e.
a. parasiticus.
3642 " M. a. parasiticus ♂ [imm.] t. n. e.

At present, in the dry season, kites are
abundant everywhere, flocking to
a grass-fire to catch grass-hoppers on
the wing, beating about over villages on
the lookout for an odd scrap of meat.

Jan. 24.

3643. Vulture (Rhynchogyps), ♀. o. n. e.
occipitalis

Jan. 25.

- 3644 " Lophogyps " ♀. o. n. e. Stomach
(Hystrix)

photo. contents: porcupine quills (longest one about
4 in.) grass, and 2 pieces of bone.

This vulture was occasionally seen at
the Rhino-group Camp, but never more than
3 at a time. Adults, with white crown, crop

and belly were seen, but could not be secured. The habits seemed much like those of *Pseudogyps*. (As to the color of the head in *Neophron* — We often noticed that adults of *Neophron*, which can be distinguished by the whitish nape, had the skin of the head deep pink or light red, whereas the young were often bluish there. That this ^{change of} color is merely due to the blood, ^{and very changeable} I found when I broke the wing of a red-headed bird with the rifle. On catching the wounded bird, I was surprised to find the bare skin of its head had already faded to bluish white.)

Jan. 24.

Lepidopterus crumeniferus.

3645. Marabout. ♂ Imm. ♀ ovary slightly enlarged. Stomach contents: bait, a piece of loaf & a few insects remains.

Jan. 25.

Pyromastix nigricollis. ~~Marabout~~

3646. Small gray weaver with red rump, black cheeks & throat, and small white spots on the sides.

J. t. n. s. Irides brown, rim of eyelids blue gray, bill blue gray at base, black at tip, feet dusky. Flew up off the ground in a burned spot in the bush. The first specimen I have seen.

Leptoptilos crumeniferus

On April 15, 1912, I went with Bangura to visit a place where marabouts are accustomed to breed. He assured me that there were sometimes as many as 20 nests, and so I set out with good hopes. At 4 hours march to the westward of his village we came to a narrow, wooded valley, with a couple of very tall trees towering up above their fellows. One was very straight, with a smooth, branchless trunk, and among its leafy boughs, at a height of 55 or 60 feet we could discern two large flattish nests, rather roughly built of dry sticks, and supported by several more or less horizontal branches, well out from the main limbs. On top of one nest sat a single young marabout, ^{but not easily seen from below,} of rather large size, the other was empty, but on the small twigs about it there hung two weaver-birds' nests (undoubtedly the same species, ^{Sitta benini} ab no. 3649-51). Bangura was rather discouraged by the small number of nests, but said the main colony was over in the next swamp, so up we went over the intervening rise, covered with a growth

of coarse grass. The next depression, a quarter of a mile beyond, contained many small trees, and a few large ones, one of them a giant, with a huge trunk. Upon its branches there were 3 marabout nests, but all empty, and we quickly found that natives had already visited the spot and collected all the young, perhaps destroying many other nests of the marabouts.

In this tree there were 3 weavers' nests, also placed close to a marabout's. The natives, who had camped in the hollow below, made the ascent by way of a smaller tree, passing over to the limbs of the larger one by means of vines they lashed to them. Young marabouts are considered choice eating; last year when Maruka gave us two of them he said we would find them much better than ducks.

On our way back we passed by the nest containing the young bird, and

Jan 2

364

Jan. 2

364

saw one of its parents return to the nest. Alighting on the neighboring boughs, it approached its offspring with slightly opened wings, giving the low, reiterated grunting note we have already mentioned. This neighborhood is said to have a colony of breeding marabouts every year in the dry season, and is evidently selected by the birds because of its remoteness, there being no village closer than 4 hours, and the ^{consequent} abundance of big game, elephants, rhinoceroses and buffaloes.

In spite of Bangura's opinion that marabouts are resident here, I believe they are absent during most of the rainy season. Our hunters who were near Azanga's in late August could not say that they had seen any, and after securing an elephant near the same place in October, ^{they} reported positively that no marabouts appeared, the vultures were numerous. (On Feb. 18, 1913, Kasima sent 2 young marabouts to the post.)

(At Baramba, in March 1912, Mr. Lang observed weaver birds' nests about a nest of Pseudogyps.)

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