

A REVISED LIST OF THE ANTS COLLECTED IN THE KRUGER NATIONAL PARK

by

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Since the previous list had been published further surveys carried out in the Kruger National Park revealed the presence of a few more species in that area.

Although it was relatively easy, in most cases, to determine the specific names of these ants and those previously collected, some forms, however, could be identified only with the greatest difficulty.

During last February I visited the National Museum of Southern Rhodesia in Bulawayo where the Arnold Collection is kept, and made a proper study of these difficult groups, some of which were collected in other parts of the Republic.

In surveying the diverse groups which constitute the ant Fauna of a certain part the reader should consider the following:

(a) *New distribution areas are continuously discovered.*

Of the Cocktail Ants *C. castanea rufonigra* is well established in the Kruger National Park and has now also been found together with the brown house ant *Ph. megacephala rotundata* near Lower Sabie. This latter species is second in importance as a household pest in South Africa, and although a harvesting ant, it will enter houses and help itself to almost any foodstuffs left on the floor or in cupboards. Another frequent visitor in houses is the cosmopolitan spotted sugar ant *C. maculatus*. This species is very common between Letaba and Olifants Rest Camp, around Satara and in the south near Malelane. It has also been found along the west border near Skukuza and near the Nwaswitsonso Dam.

It seems, however, as if the Matabele Ant *M. foetens* is restricted to the Shingwidzi area only, as several attempts to collect this termite feeder in other parts have failed so far. Other rare species in the Kruger National

Park are: *Platythyrea schultzei*, *Euponera sennaarensis* (also a termite feeder), *Ponera dulcis*, *Xiphomyrmex weitzckeri*, *Tapinoma voeltzkowii rhodesiana*, *Acantholepis submetallica* and *Polyrachis spinicola*.

(b) Specialists might sometimes be incorrect when diagnosing species, and specific names are often changed.

After a careful study of the different groups I found it necessary to make the following emendations —

(i) *Pheidole prelli redbankensis politociput*.

By examining and comparing more major workers of this ant found near Lower Sabie and in blocks N61, S43 and S23, I observed that the occipital lobes of the head are not entirely smooth and shining, but obliquely striate and the scutellar portion of the mesonotum has a horizontal ledge, which is absent in the variety *politociput*. It would have been more satisfactorily if I could have compared the type of the species with the specimens before me, but I am reasonably sure to assume that the specimens belong to *Ph. prelli*. The subspecies *redbankensis* was collected near Lower Sabie during the last survey in May 1962.

(ii) *Plagiolepis jouberti* and *Plagiolepis van den kelleni polita*.

These ants were collected near Letaba and in blocks N61 and C121, and had been identified by Dr. Arnold as such. It is however quite obvious that he was in error in placing these small ants in the subgenus *Anacantholepsis* as the metanotum is not separated from the mesonotum by a wide concavity but only by a narrow suture. I recognised them as belonging to the subgenus *Plagiolepis* and since the meta- and epinotum are transversely rugulose and dull they are unmistakably *P. pygmaea bulawayensis*.

(iii) *Crematogaster misella*.

In this species the sculpture of the thorax consists of a raised reticulation and the colour of the abdomen is piceous. The determination of this species was based on a few specimens collected in block C69 during the first survey trip and in which the thorax is similarly sculptured. As more specimens were obtained I was able to make a better comparison and it was clear that the colour of the abdomen is lighter towards the base, and although the sculpture of the thorax is stronger than in *C. castanea*, I cannot regard it as distinctly raised. The mesonotum is only slightly margined as in the subspecies *rufonigra* and my suspicion was later confirmed when I compared them with determined specimens in the Arnold Collection.

(iv) *Crematogaster monticola*.

I cannot agree with Dr. Arnold that the specimens collected in block C69 belong to the above species. The colour of *monticola*

is black in fresh specimens and those collected in the Kruger National Park are almost castaneous brown to yellowish brown. I cannot believe that the colour could have leached out since the period of immersion in alcohol is very short, and although the sides of the head in these specimens are convex, the dorsum of the epinotum has a median longitudinal impression and the median groove on the second node of the petiole is shallow. These ants very closely resemble *C. bruneipennis*, and since there are only a few workers available, the species has been omitted from the revised list until a proper diagnosis can be made.

(v) *Crematogaster kneri*.

This species is really *C. amita caffra* according to Santschi (Rev. Suisse Zool., 1922), and has therefore been designated in the list as such.

(vi) *Componotus maculatus*.

The subgenus *Tanaemyrmex* will be revised later and the arrangement of this group in the previous list is therefore retained with the addition of the two subspecies *hannae* and *lacteipennis*.

(c) *New species may be discovered.*

(i) *Euponera wroughtoni*.

This species has also been omitted from the list. The true colour of *wroughtoni* is dark brown, the mesonotum reddish brown. Specimens collected in the south along the Lebombo Mountains and near Malelane are almost black, except for the legs, antennae and mandibles, which are reddish brown. The dorsum of the epinotum is one-third longer than the mesonotum and the meso-epinotal suture almost obsolete above. This may be a new form but more specimens have to be examined before assigning them to any species.

(ii) Six samples collected in the Kruger National Park and sent to Dr. Arnold for determination were returned to me as unknown. It is quite possible that some of these may be new species, but more specimens have to be collected and studied before any opinion can be expressed.

In view of the facts given above it was necessary to revise the previous list published in Koedoe No. 6, 1963, and to alter Maps 8, 15, 18, 20, 21, 22, 33 and 35 accordingly, and to include new maps 41-48 for additional species, subspecies and varieties. The distribution areas in Africa have been taken from the Map of the National Geographic Society published in November, 1962.

ACKNOWLEDGEMENT

I wish to express my cordial thanks to the National Parks Board and the Kruger National Park Officials for their keen interest in this project.

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- WHEELER, W. M., 1922: Ants of the Belgian Congo. *Bull. Am. Mus. Nat. Hist.*, Vol. XLV, pp. 712-1055.

REVISED LIST OF THE ANTS COLLECTED IN THE KRUGER NATIONAL PARK

A. SUBFAMILY DORYLINAE LEACH.

I. GENUS *DORYLUS* FAB.

(Ethiopian, North Africa, Mediterranean Coast of Asia Minor, Indomalayan, Papuan).

(a) Subgenus *Typhlopone* Westwood.

D. fulvus Westw. subsp. *badius* Gerst.

Type Locality: Mocambique (Peters).

Distribution: Gold Coast; Rep. of the Congo; Tanganyika; Kenya; Uganda; Mocambique; Rhodesia; Bechuanaland; South West Africa; South Africa: Cape Prov.: Cape Town; Transvaal; KNP — C136 (A. J. Prins).

(b) Subgenus *Dorylus* Fab.

D. helvolus L.

Type Locality: Cape of Good Hope.

Distribution: Togo; Southern Nigeria; Rep. of the Congo; Nyasaland; Tanganyika; Kenya; Abyssinia; Southern Rhodesia; South Africa: Cape Prov.: Cape Town; Dunbrody; Blue Cliff; East London; Port Elizabeth. O.F.S.: Kroonstad; Bloemfontein. Natal: Estcourt; Durban; Ladysmith. Transvaal: Barberton; Pretoria; Makapan; Hebron; KNP—C139, C146 (A. A. Boonzaier); S43, S45 (A. J. Prins).

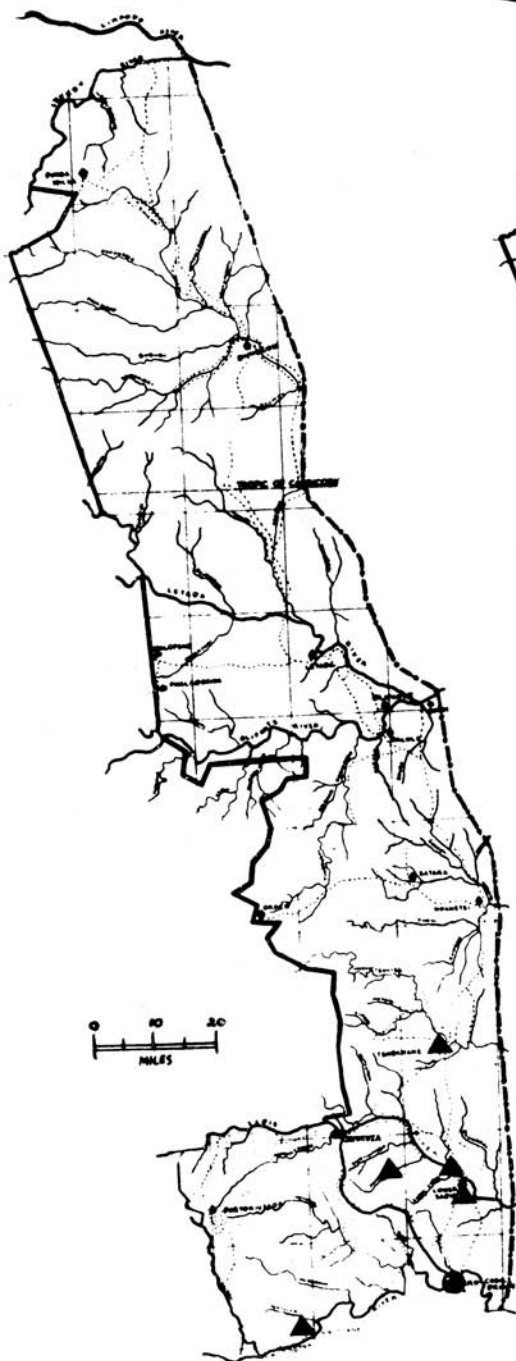
II. GENUS *AENICTUS* SHUCK.

(Ethiopian, North Africa, Indomalayan, Papuan, North East Australia).

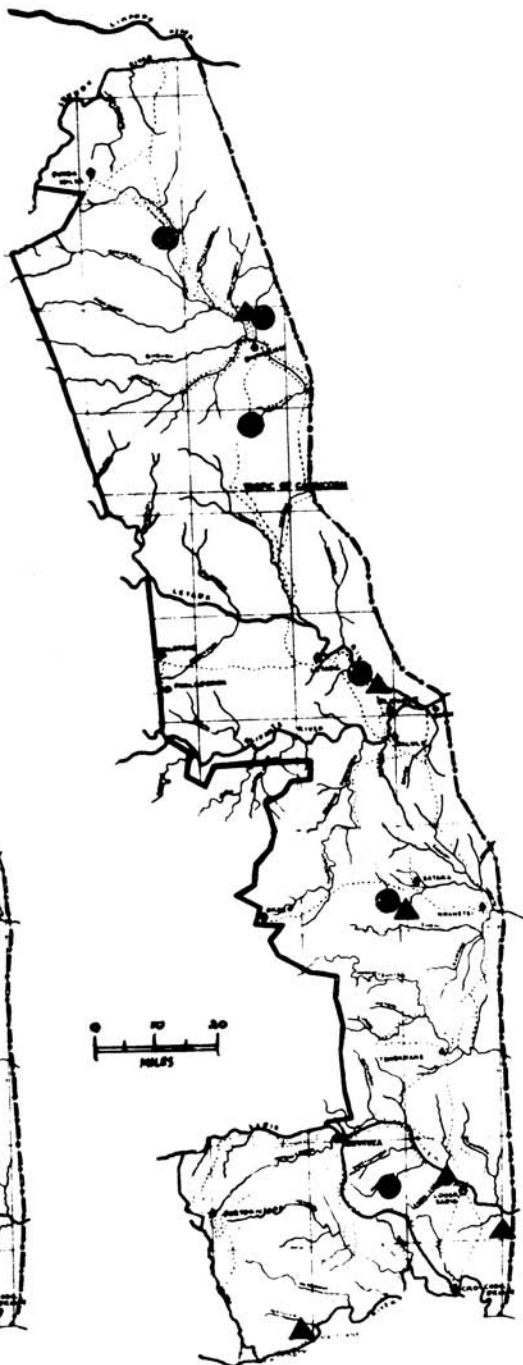
A. eugenii Em.

Type Locality: Makapan, Transvaal (E. Simon).

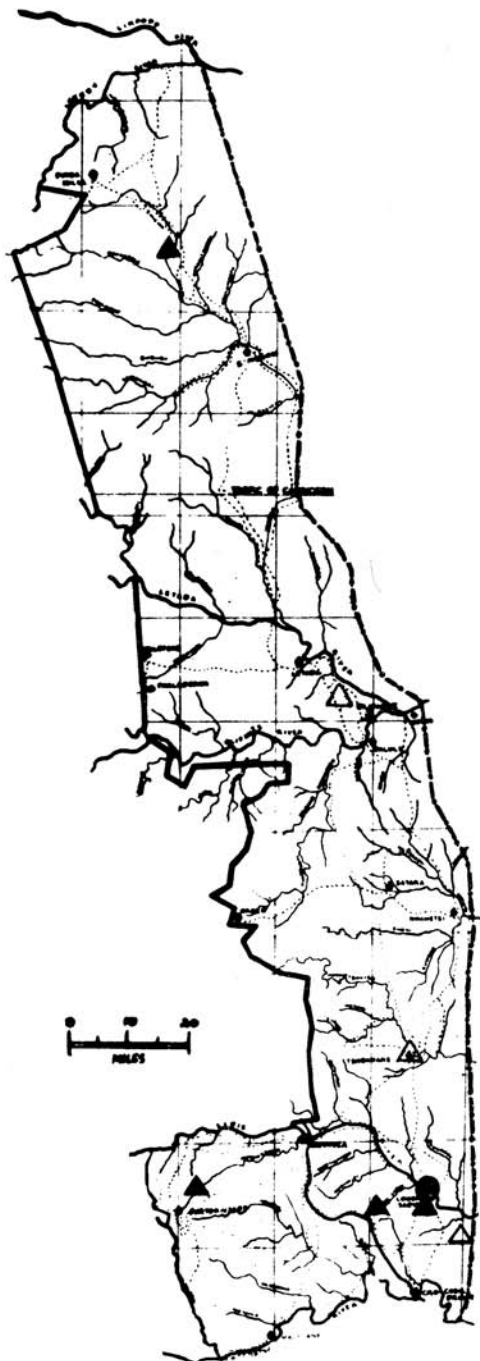
Distribution: Southern Rhodesia; South Africa: O.F.S.: Bothaville; Transvaal: KNP-C50 (A. J. Prins).



MAP 8
E. senaarensis Mayr ●
E. cafferaria Smith ▲



MAP 15
Ph. megacephala F. *rotundata* For. ▲
Ph. megacephala F. *impressifrons* Wasm. ●

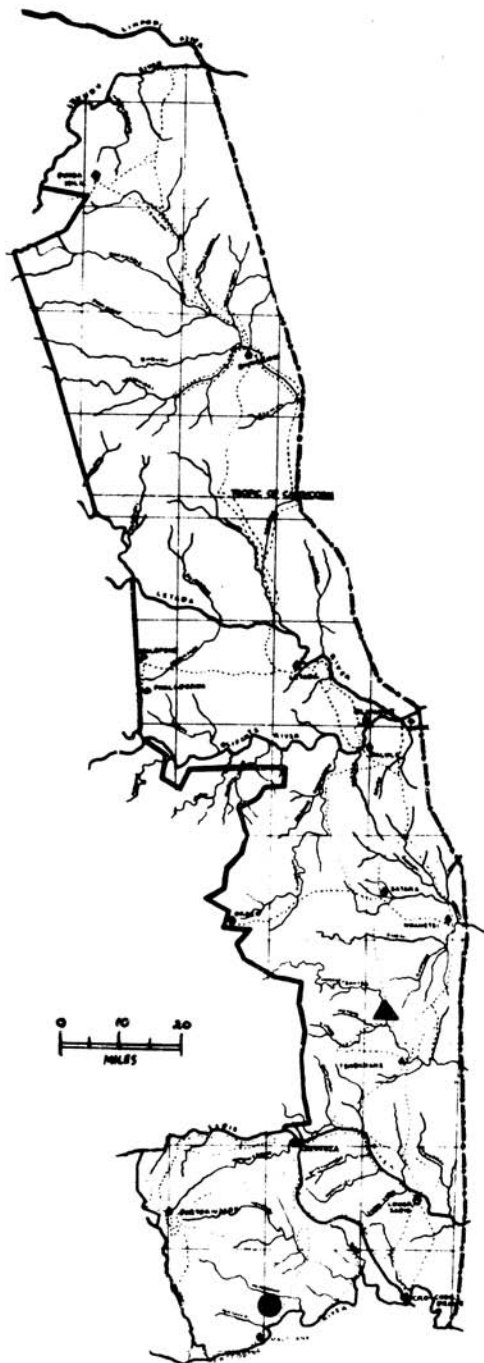


MAP 18

Pr. prelli For. ▲

Ph. prelli For. *redbankensis* For. ●

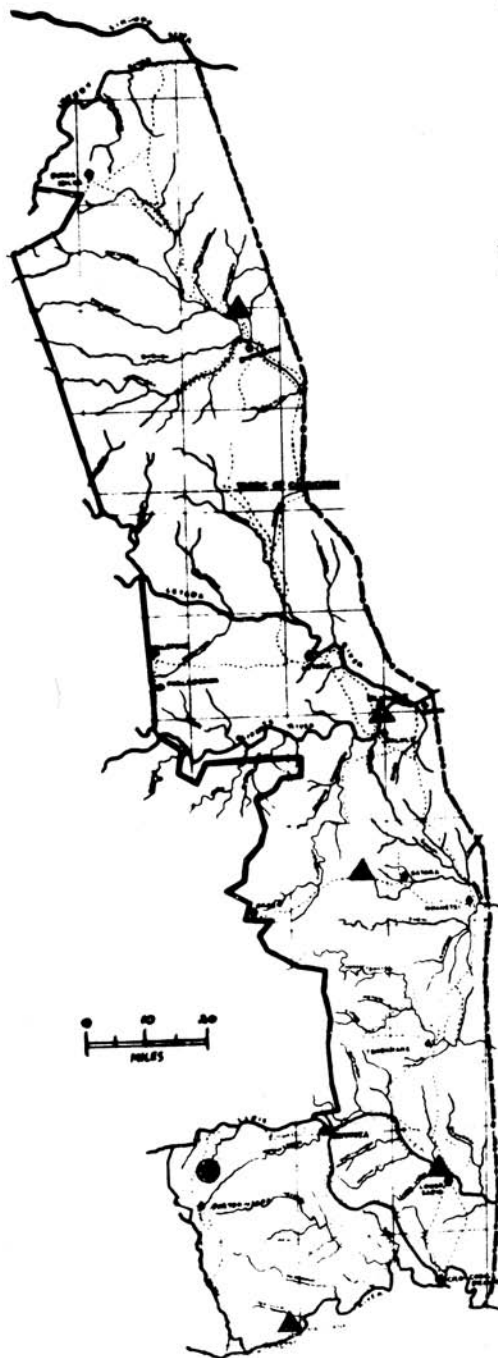
Ph. sculpturata Mayr *rhodesiana* For. ▲



MAP 20

C. transvaalensis For. ●

C. amita For. *caffra* Sant. ▲

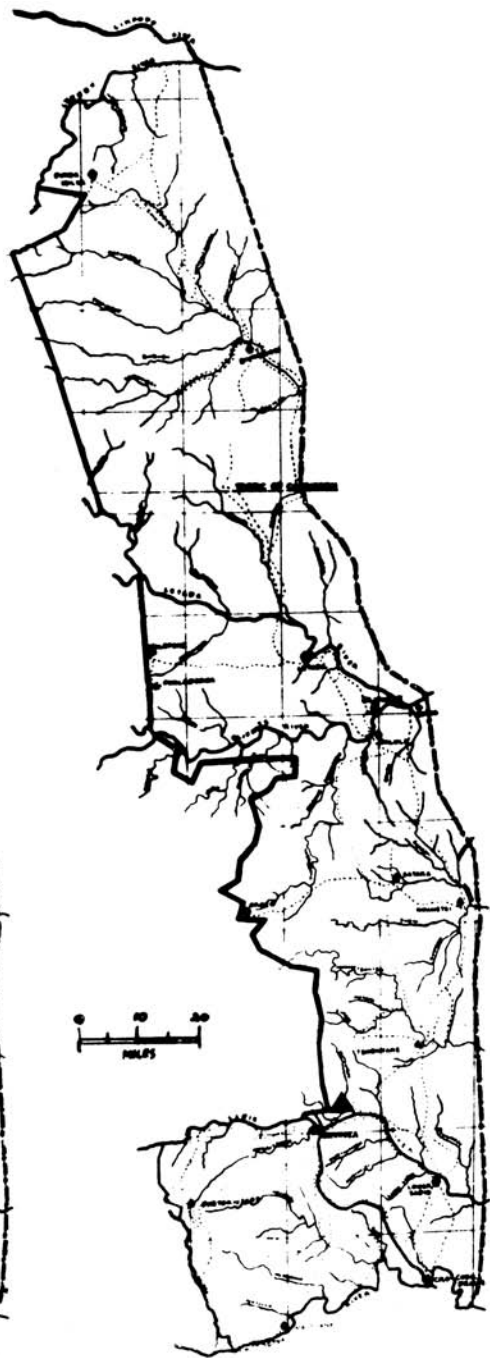


MAP 21

C. castanea Sm. *rufonigra* Em. ▲

C. castanea Sm. *busschodtsi* Em. ●

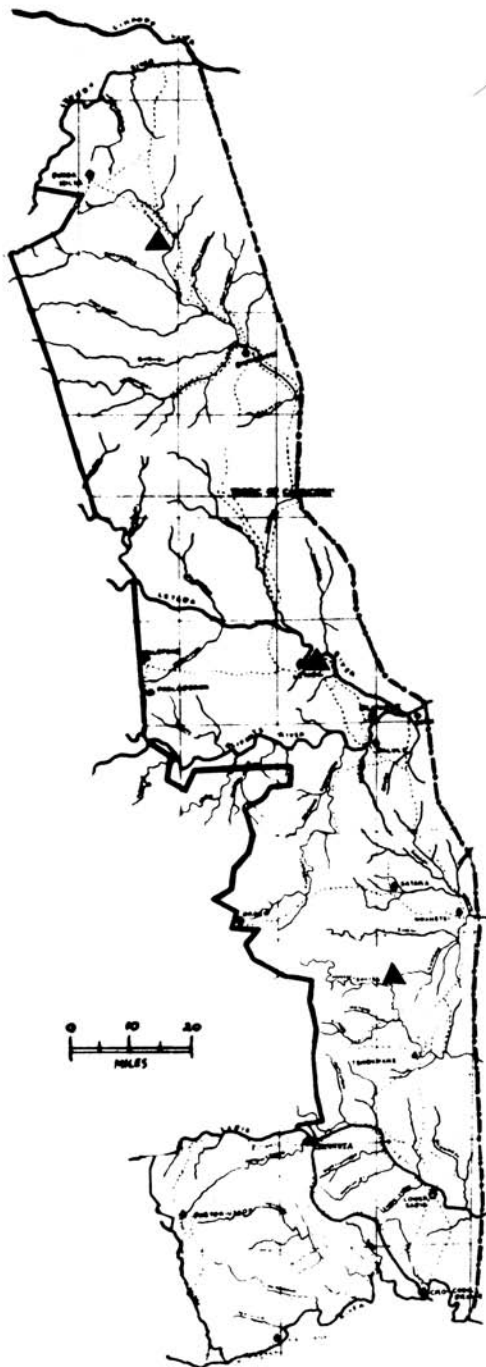
For *C. castanea* including all varieties see Map 48.



MAP 22

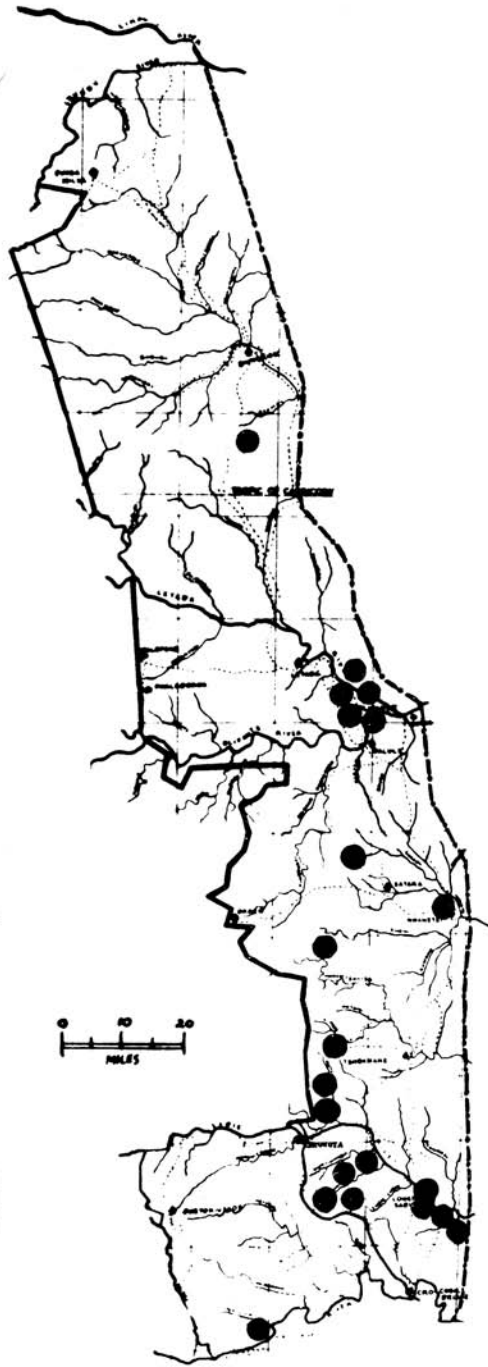
C. gerstaeckeri D.T. *bulawayensis* For. ▲

For *C. gerstaeckeri* including varieties see Map 49.



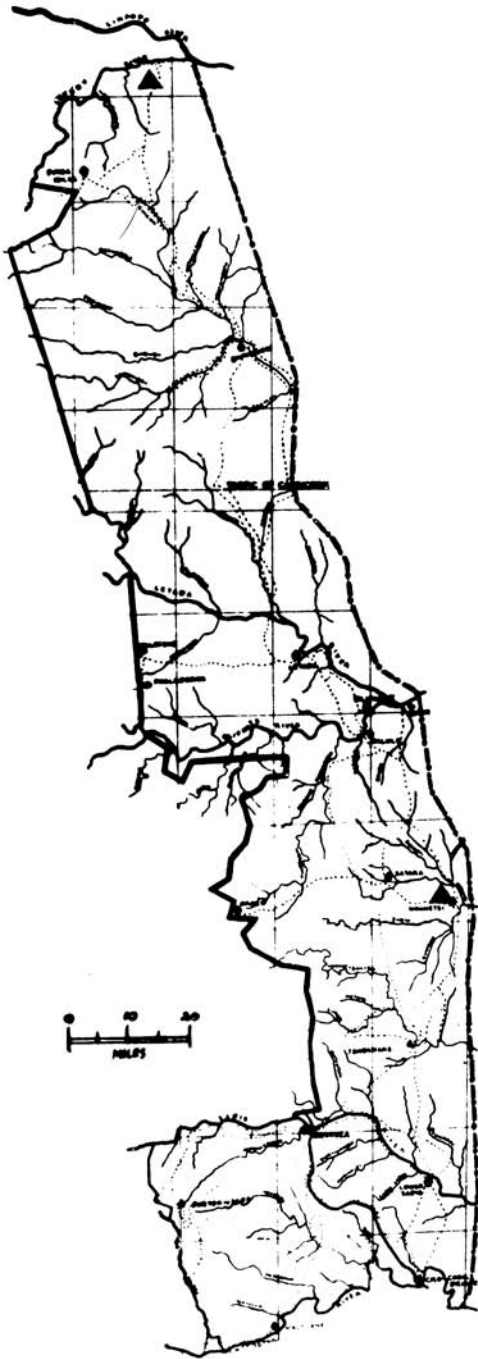
MAP 33

P. pygmaea Latr. *bulawayensis* Arn. ▲

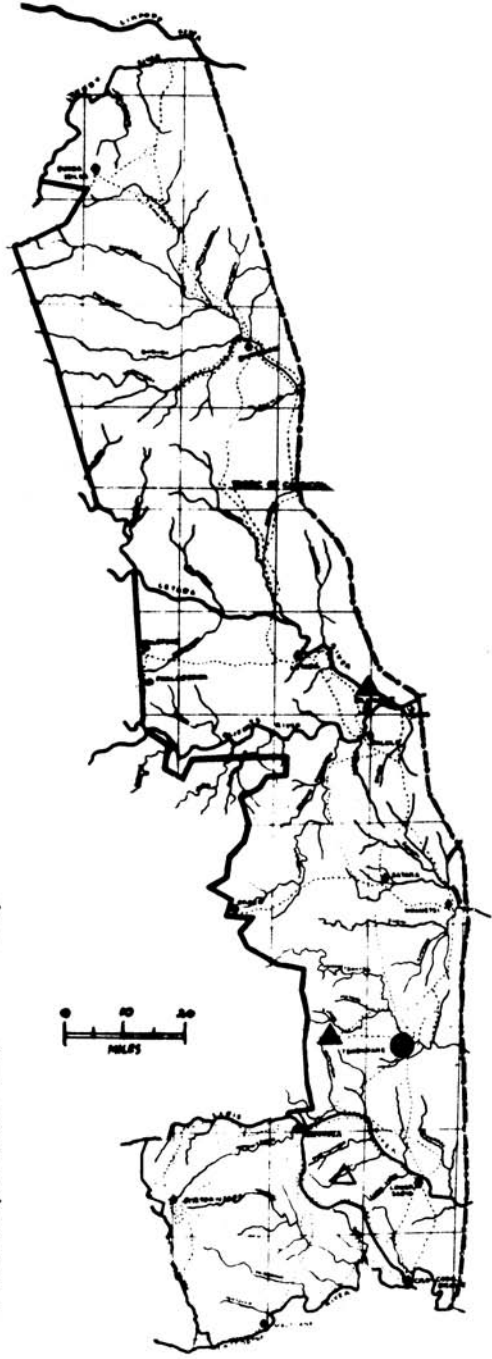


MAP 35

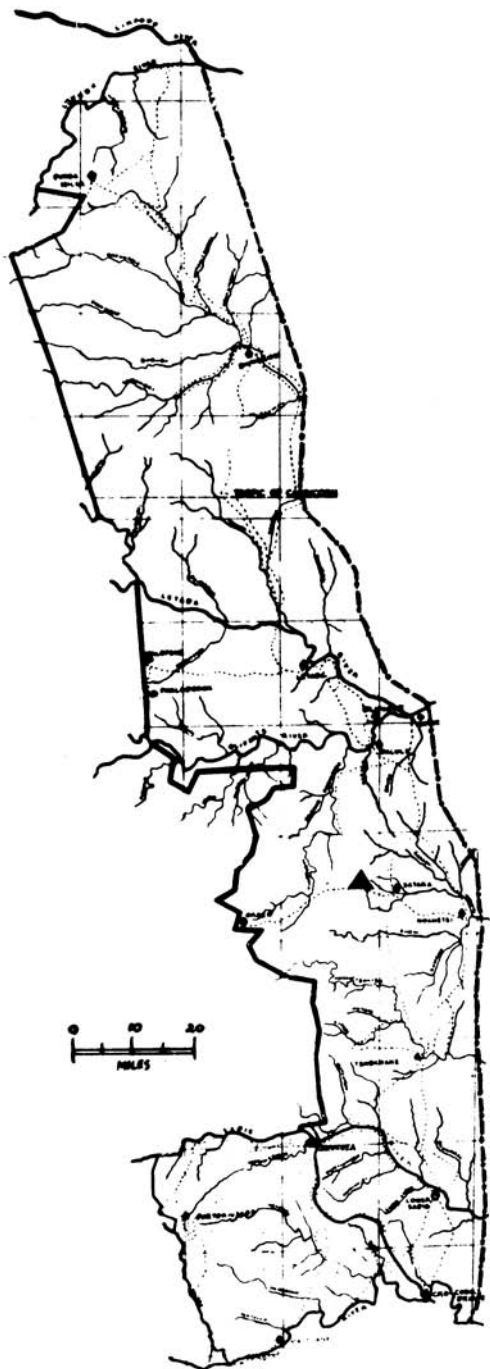
C. maculatus F. ●
Including all Subspecies and varieties.



MAP 41
S. bivoeolata Mayr. ▲

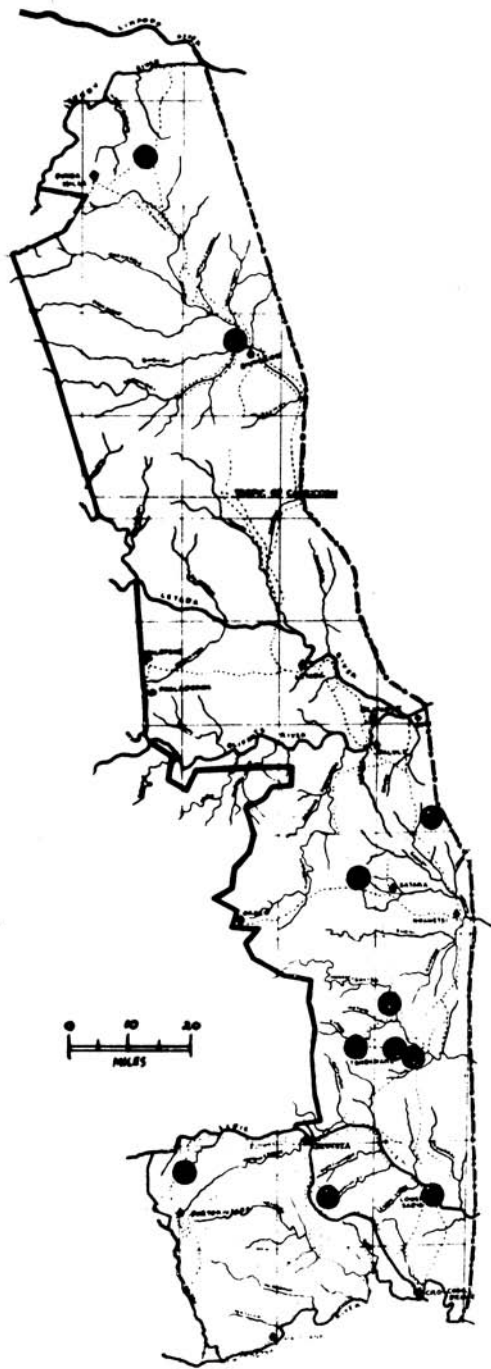


MAP 42
M. delagoensis For. △
M. delagoensis For. pretoriensis Arn. ▲
M. delagoensis For. junodi For. ●



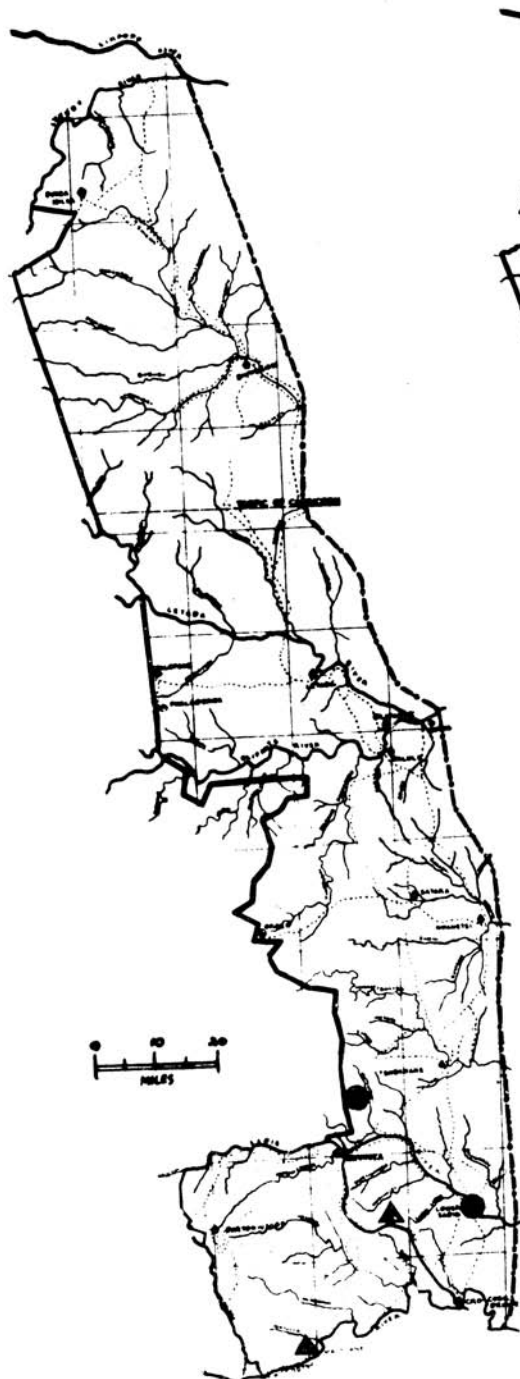
MAP 43

T. gladstonei For. *seposita* Sant. ▲



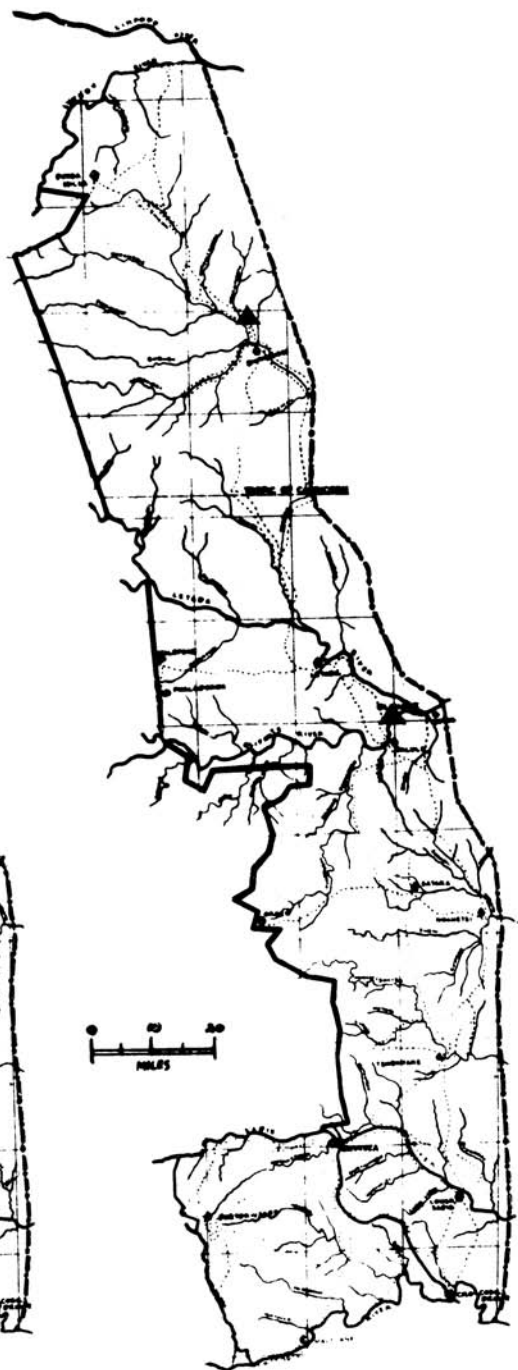
MAP 44

T. sericeiventre Em. *femoratum* Em. ●



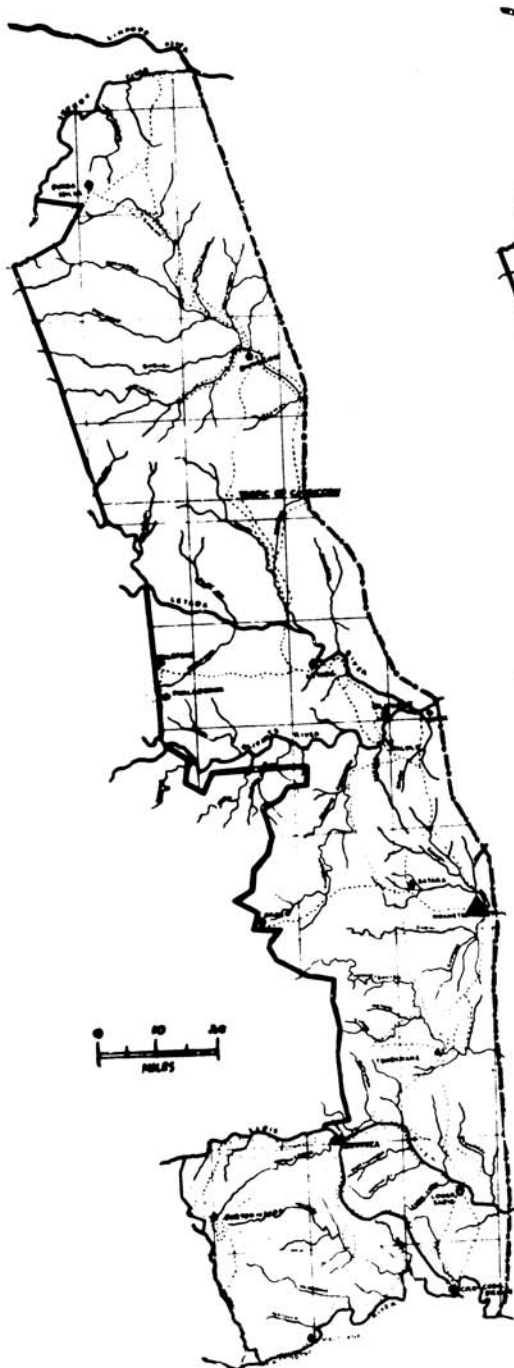
MAP 45

C. maculatus F. *hannae* Sant. ▲
C. maculatus F. *lacteipennis* Sm. ●

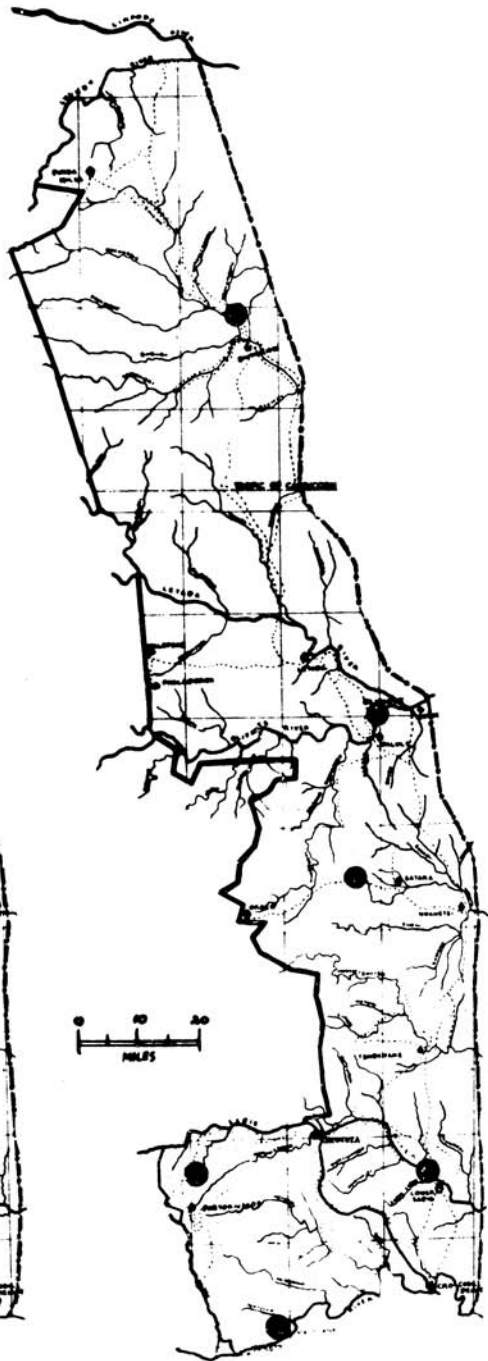


MAP 46

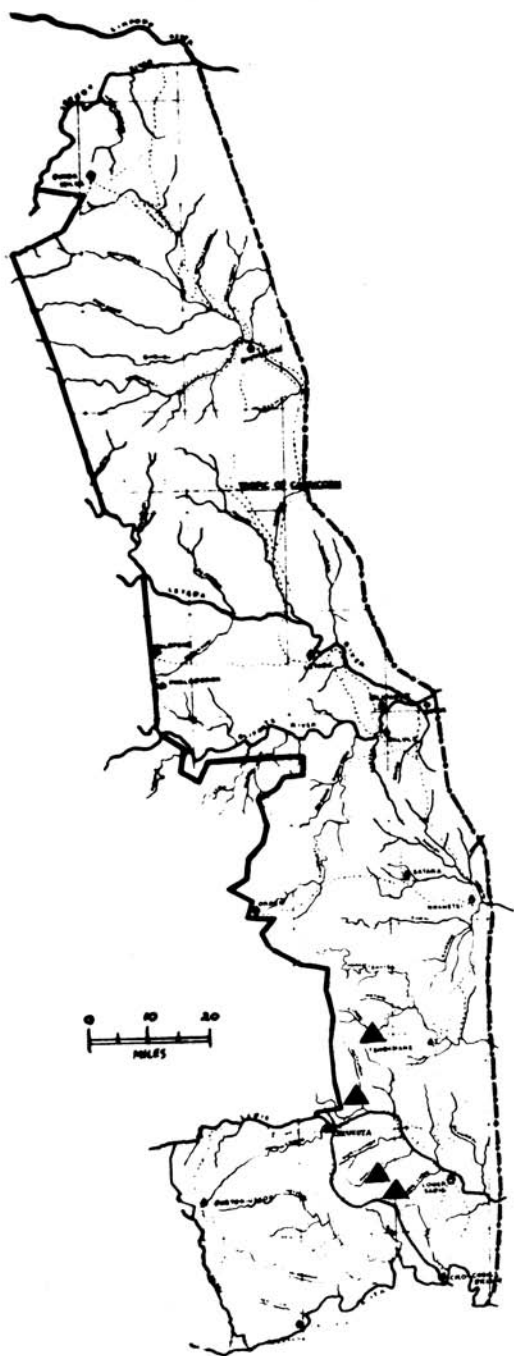
C. grandidieri For. *ruspolii* For. *rollei* For. ▲



MAP 47
P. spinicola For. ▲



MAP 48
C. castanea Sm. ●
 including all Subspecies and varieties.



MAP 49
C. gerstaeckeri D.T. ▲
Including all Subspecies and varieties.

B. SUBFAMILY PONERINAE LEPELETIER.

I. GENUS PLATYTHYREA ROGER.

(Tropicopolitan).

1. *P. schultzei* For.

Type Locality: South West Africa (L. Schultze).

Distribution: Southern Rhodesia; South West Africa; South Africa: Transvaal: KNP—Near Mashicindudzi (J. J. Cillie).

2. *P. lamellosa* Rog. var. *rhodesiana* For.

Type Locality: Southern Rhodesia (G. Arnold).

Distribution: Rep. of the Congo; South Africa: Transvaal: KNP—N259, N25, C69 (A. J. Prins).

II. GENUS MEGAPONERA MAYR.

(Ethiopian).

M. foetens F.

Type Locality: Guinea (Isert.).

Distribution: Senegal; Sierra Leone; Gold Coast; Southern Nigeria; Cameroon; Central African Rep.; Rep. of the Congo; Benguela; Angola; Mocambique; Tanganyika; Kenya; Uganda; Zanzibar; Abyssinia; Somali Rep.; Eritrea; Sudan; Rhodesia; South Africa: Swaziland (J. H. Grobler); Cape Prov.: Jacob's Bay, Vredenburg (A. J. Prins); Transvaal: KNP—N107, N119 (A. J. Prins).

III. GENUS OPHTHALMOPONE FOREL.

(Ethiopian).

O. berthoudi For.

Type Locality: Valdezia, Transvaal (P. Berthoud.).

Distribution: Mocambique, Southern Rhodesia; South Africa: Transvaal: KNP — Near Mashicindudzi, N168, S20, S30, S45, Malelane Rest Camp (A. J. Prins); C136 (J. J. Cillie).

IV. GENUS BOTHROPONERA MAYR.

(Ethiopian, Malagasy, Indomalayan, Papuan, Australian).

1. *B. krügeri* For.

Type locality: Valdezia, Transvaal (P. Berthoud).

Distribution: South Africa: Zululand: Umfolozi; Transvaal: KNP — N32, C84, Nwanedzi (A. J. Prins); Malelane Rest Camp, S20 (J. J. Cillie).

2. *B. soror* Em.

Type locality: Cameroon (Conradt).

Distribution: Cameroon; Togo; Congo; Rep. of the Congo; Southern

Rhodesia; *South Africa: Transvaal*: KNP — N245, C121, C139, S59, Malelane Rest Camp (A. J. Prins); N25 (J. J. Cillie).

3. *B. crassa* Em. var. *crassior* Sant.

Type Locality: Mtetengwe, Southern Rhodesia (G. Arnold).

Distribution: *South Africa: Transvaal*: KNP — N97 (A. A. Boonzaaier); N260, N259 (A. J. Prins).

V. GENUS *EUPONERA* FOREL.

(Tropicopolitan, Mediterranean, Japan, New Zealand).

(a) Subgenus *Mesoponera* Em.

E. cafraria Sm.

Type locality: Port Natal, Natal.

Distribution: Guinea; Sierra Leone; Cameroon; Congo; Southern Rhodesia; Bechuanaland; *South Africa: Cape Prov.*: Port Elizabeth; Peddie (J. H. Grobler); *Natal*: Colenso; *Transvaal*: Pretoria; KNP — Tshokwane (A. J. Prins and A. A. Boonzaaier); Lower Sabie (A. J. Prins); S30, Malelane (J. J. Cillie).

(b) Subgenus *Brachyponera* Em.

E. sennaarensis Mayr.

Type locality: Sennar, Sudan.

Distribution: Senegal; Guinea; Sierra Leone; Southern Nigeria; Cameroon; Rio Muni; Congo; Gabon; Rep. of the Congo; Uganda; Kenya; Tanganyika; Somali Rep.; Abyssinia; Sudan; Muscat: South Eastern Arabia; Aden Protec.: Southern Arabia; Southern Rhodesia; *South Africa: Transvaal*: KNP — Crocodile Bridge Rest Camp (J. J. Cillie).

VI. GENUS *PONERA* LATREILLE.

(Cosmopolitan).

P. dulcis For.

Type locality: Arusha-chini, Tanganyika (Katona).

Distribution: Tanganyika; Kenya; Eritrea; Southern Rhodesia; *South Africa: Natal*: Durban; *Transvaal*: KNP — N97 (A. J. Prins).

VII. GENUS *LEPTOGENYS* ROGER.

(Neotropical, Southern Nearctic, Ethiopian, Malagasy, Indomalayan, Papuan, Australian).

Subgenus *Leptogenys* Rog.

L. cribrata Em.

Type locality: Vryburg, C.P. (E. Simon).

Distribution: *South Africa: Transvaal*: KNP — Lower Sabie (A. J. Prins).

VIII. GENUS ODONTOMACHUS LATREILLE.

(Tropicopolitan, Southern Nearctic).

O. haematodes L.

Type Locality: South America.

Distribution: Senegal; Guinea; Liberia; Ivory Coast; Gold Coast; Nigeria; Cameroon; Fernando Poo; Ria Muni; São Thomé; Congo; Gabon; Rep. of the Congo; Kenya; Abyssinia; Eritrea; Mocambique; Uganda; Bechuanaland; Sudan; Southern Rhodesia; South Africa: Zululand (J. J. Nel); Transvaal: Hamman's Kraal, KNP — S59, Lower Sabie, Pretoriuskop Rest Camp, Tshokwane (A. J. Prins).

C. SUBFAMILY PSEUDOMYRMINAE EMERY.

GENUS SIMA ROGER.

(Ethiopian, Malagasy, Palestine, Idomalayan, Papuan, Australian).

1. *S. natalensis* Sm.

Type Locality: Port Natal, Natal.

Distribution: Tanganyika; Somali Rep.; South Africa: Zululand: Umfolozi; Cape Prov.; Natal: Durban; Weenen; Stamford Hill; Transvaal: Makapan; Hamman's Kraal; KNP — Pretoriuskop Rest Camp (A. J. Prins).

2. *S. bifoveolata* Mayr.

Type Locality: Delagoa Bay, Mocambique (H. Brauns).

Distribution: Sudan; Zanzibar; South Africa: Transvaal: KNP — C84, Near Mashicindudzi (J. J. Cillie).

Nesting in trunk of *Sclerocarya caffra* Sond.

D. SUBFAMILY MYRMICINAE LEPELETIER.

I. GENUS MYRMICARIA SAUNDERS.

(Ethiopian, Indomalayan, Papuan).

1. *M. natalensis* Sm. var. *eumenoides* Gerst.

Type Locality: Tete, Mocambique.

Distribution: Cameroon; Rio Muni; Rep. of the Congo; Tanganyika; Kenya; Uganda; Zanzibar; Angola; Bechuanaland; Southern Rhodesia; South West Africa; South Africa: Basutoland, Transvaal: Barberton; Valdezia; Makapan; Pretoria; Hamman's Kraal; KNP — C146 (A. A. Boonzaaier); Nwanedzi (J. J. Cillie); N259, C155, Lower Sabie, Malelane, near Crocodile Bridge Rest Camp (A. J. Prins).

2. *M. fusca* Stitz subsp. *nigerrima* Arn.

Type Locality: Matopo Hills, Southern Rhodesia (G. Arnold).

Distribution: South Africa: Transvaal: KNP — Nwaswitsonso Dam (A. J. Prins and A. A. Boonzaaier).

II. GENUS *MESSOR* FOREL.

(Palearctic, Ethiopian, Northern India).

1. *M. barbarus* L. subsp. *capensis* Mayr.

Type Locality: Cape of Good Hope (Novara Expedition).

Distribution: South Africa: Cape Prov.: Cape Town; Kimberley; Willowmore; Natal: Durban; Wessel's Nek; Transvaal: Makapan; Pretoria; KNP — Olifants Rest Camp (A. J. Prins).

2. *M. barbarus* L. Var. —

Distribution: South Africa: Transvaal: KNP — N97 (A.J. Prins).

III. GENUS *PHEIDOLE* WESTWOOD.

(Tropicopolitan, Southern Palearctic, Nearctic).

1. *Ph. megacephala* F. subsp. *rotundata* For.

Type Locality: Delagoa, (Liengme).

Distribution: Mocamedes: Angola; Tanganyika; Kenya; Southern Rhodesia; South Africa: Natal: Durban; Transvaal: Pretoria; KNP — N97, C92, S61, C172, Malelane (A. J. Prins); N260 (J. J. Cillie).

2. *Ph. megacephala* F. subsp. *impressifrons* Wasmann.

Type Locality: Port Elizabeth, C.P. (H. Brauns).

Distribution: Southern Nigeria; Rep. of the Congo; Eritrea; Abyssinia; Southern Rhodesia; South Africa: Cape Prov.: Willowmore; Natal: Zululand; Transvaal: Pretoria; KNP — N259, N149, N97, N61, C92, S30 (A. J. Prins).

3. *Ph. megacephala* F. subsp. *punctulata* Mayr.

Type Locality: Caffraria.

Distribution: Guinea; Ivory Coast; Gabon; Cabinda; Rep. of the Congo; Angola (Benguela and Mocamedes); Mocambique; Tanganyika; Pemba Isl.; Kenya; Zanzibar; Uganda; Abyssinia; Eritrea; Southern Rhodesia; South Africa: Cape Prov.: Grahamstown; Lower Albany; Port Elizabeth; Natal: Durban; Transvaal: Pretoria; Majika; KNP — N259, N168, N149, N107, N97, C154, C146, C135, Nwanedzi, C81, C59, S59, S41, S20 (A. J. Prins); Malelane, Lower Sabie, S61 (J. J. Cillie); S44 (A. A. Boonzaaier and J. J. Cillie).

4. *Ph. tenuinodis* Mayr.
 Type Locality: Bothaville, O.F.S. (H. Brauns).
 Distribution: South West Africa; Bechuanaland; Southern Rhodesia;
 South Africa: Cape Prov.: Ladismith; Kirstenbosch; Natal:
 Pinetown; Transvaal: KNP — N97, N32, Malelane (A. J.
 Prins).
5. *Ph. prelli* For.
 Type Locality: Mombasa, Kenya (H. Prell).
 Distribution: South Africa: Transvaal: KNP — N61, S43, S23 (A. J.
 Prins); Lower Sabie (A. J. Prins and J. J. Cillie).
6. *Ph. prelli* For. subsp. *redbankensis* For.
 Type Locality: Bulawayo, S.Rhod. (G. Arnold). This is the locality
 given by Forel; Arnold corrects it to Redbank, S.Rhod. (1920).
 Distribution: South Africa: Transvaal: KNP — Lower Sabie (J. J.
 Cillie).
7. *Ph. sculpturata* Mayr. subsp. *rhodesiana* For.
 Type Locality: Bulawayo, S.Rhod. (G. Arnold)?
 Distribution: South Africa: Transvaal: KNP — N259, Tshokwane,
 S61 (A. J. Prins).
8. *Ph. liengmei* For.
 Type Locality: Delagoa, Mocambique (Liengmel).
 Distribution: Tanganyika; Southern Rhodesia; South Africa: Natal:
 Zululand: Mkuze; Transvaal: KNP — Shingwidzi, N97 (A. J.
 Prins); C121 (A. A. Boonzaaier).
9. *Ph. crassinoda* Em.
 Type Locality: Makapan, Transvaal (E. Simon).
 Distribution: Tanganyika; West Abyssinia; South West Africa;
 Bechuanaland; South Africa: Natal: Verulam. Transvaal: KNP
 — Pumbe, Shingwidzi (A. J. Prins); Malelane (J. J. Cillie).

IV. GENUS *CREMATOGASTER* LUND.

(Tropicopolitan and warm temperate regions; in North America reach-
 ing to Canada).

(a) Subgenus *Orthocrema* Sant.

C. transvaalensis For.

Type Locality: Transvaal (P. Berthoud).

Distribution: South Africa: Cape Prov.: Cape Laun, Vryburg;
 Transvaal: KNP — S92 (A. J. Prins).

(b) Subgenus *Sphaerocrema* Sant.

C. amita For. var. *caffra* Sant.
(= *C. kneri* Mayr.)

Type Locality: Transvaal.

Distribution: South Africa: Transvaal: KNP — C121 (A. J. Prins).

(c) Subgenus *Acrocoelia* Mayr.

1. *C. castanea* Sm. subsp. *rufonigra* Em.

Type Locality: Hebron Tvl. (E. Simon).

Distribution: Tanganyika; Rep. of the Congo; South West Africa; Kalahari; Southern Rhodesia; South Africa: Transvaal: Hamman's Kraal; KNP — N97 (A. J. Prins and A. A. Boonzaaier); C69 (A. A. Boonzaaier); Olifants Rest Camp, Malelane, Lower Sabie (A. J. Prins).

2. *C. castanea* Sm. subsp. *busschodtsi* Em.

Type Locality: Banana; Rep. of the Congo (Busschodts).

Distribution: Fundu Isl., Kenya; South Africa: Transvaal: KNP — S12 (A. J. Prins).

3. *C. castanea* Sm. var. —

Distribution: South Africa: Transvaal: KNP — Malelane (A. J. Prins).

4. *C. gerstaeckeri* D.T. subsp. *bulawayensis* For.

Type Locality: Bulawayo, Southern Rhod. (G. Arnold).

Distribution: Rep. of the Congo; South Africa: Transvaal: KNP — C154 (A. J. Prins).

5. *C. gerstaeckeri* D.T. var. —

Distribution: South Africa: Transvaal: KNP — C133 (A. A. Boonzaaier); S43, S30 (A. J. Prins).

V. GENUS *MONOMORIUM* MAYR.

(Tropicopolitan, also in warm temperate regions, especially in the Old World; in the Nearctic Region to Southern New England).

(a) Subgenus *Monomorium* Mayr.

1. *M. setuliferum* For.

Type Locality: Khakhea, Bechuanaland (L. Schultze).

Distribution: Angola; South West Africa; Bechuanaland; Southern Rhodesia; South Africa: Transvaal: KNP — Pumbe (A. J. Prins and J. J. Cillie); S30 (A. J. Prins).

2. *M. prossae* For.

Type Locality: Hillside, Bulawayo, S.Rhod. (G. Arnold).

Distribution: South Africa: Transvaal: KNP — S59 (A. J. Prins).

(b) Subgenus *Xeromyrmex* Em.

1. *M. albopilosum* Em. var. *thales* For.
Type Locality: Springvale, Rhodesia (G. Arnold).
Distribution: Southern Rhodesia; South Africa: Transvaal: Shilouvane; Pretoria; KNP — N243, N149, N97, N61, N25, (A. J. Prins); S61 (J. J. Cillie).
2. *M. afrum* André.
Type Locality: Atbara River, Sudan (Magretti).
Distribution: Kenya; Southern Rhodesia; South Africa: Transvaal: KNP — N61, N40, C155 (A. J. Prins); C135 (A. A. Boonzaaier); S41 (J. J. Cillie).
3. *M. delagoensis* For.
Type Locality: Delagoa Bay, Mocambique (Liengme).
Distribution: South Africa: Natal: Estcourt; Pietermaritzburg; Zululand: Dukudu; Umfolozi; Transvaal: KNP — S30 (A. J. Prins).
4. *M. delagoensis* For. subsp. *junodi* For.
Type Locality: Shilouvane, Transvaal (Junod).
Distribution: Southern Rhodesia; South Africa: Transvaal: KNP — C-136 (A. J. Prins).
5. *M. delagoensis* For. var. *pretoriensis* Arn.
Type Locality: Pretoria, Transvaal.
Distribution: South Africa: Transvaal: KNP — N272 (A. J. Prins); C133 (A. A. Boonzaaier).

(c) Subgenus *Parholcomyrmex* Em.

M. emeryi Mayr.

- Type Locality: Mocambique Isl., Mocambique (H. Brauns).
Distribution: Southern Rhodesia; South Africa: Transvaal: KNP — N107 (J. J. Cillie); N97 (A. J. Prins).

VI. GENUS *LEPTOTHORAX* MAYR.

(Palearctic, Ethiopian, Malagasy, Nearctic, Neotropical, Indomalayan).

L. angulatus Mayr.

- Type Locality: Sinai Peninsula (R. v. Frauenfeld).
Distribution: Tunisia; Central Uganda; Southern Rhodesia; South Africa: Transvaal: KNP — C155 (J. J. Cillie); C69, S20 (A. J. Prins).

VII. GENUS *OCYMYRMEX* EMERY.

(Ethiopian).

O. weitzeckeri Em. var. *arnoldi* For.

- Type Locality: Bulawayo, S.Rhod. (G. Arnold).

Distribution: Southern Rhodesia; South Africa: Natal: Zululand; Transvaal: KNP — N168, N107, N73, N25, N4, Lower Sabie, S30, S59, S20 (A. J. Prins); Tshokwane, S61, S42 (J. J. Cillie).

VIII. GENUS *TETRAMORIUM* MAYR.

(Tropics and Warm temperate regions, especially of the Old World).

1. *T. gladstonei* For.

Type Locality: Shiloh, Southern Rhodesia (G. Arnold).

Distribution: South Africa: Transvaal: KNP — N41 (A. J. Prins).

2. *T. gladstonei* For. var. *seposita* Sant.

Type Locality: Victoria Falls, S.Rhod. (G. Arnold).

Distribution: Southern Rhodesia; South Africa: Transvaal: KNP — C69 (A. J. Prins).

3. *T. setuliferum* Em.

Type Locality: Vryburg, Cape Prov., South Africa (E. Simon).

Distribution: Mocambique; Bechuanaland; South West Africa; North West Rhodesia; Southern Rhodesia; South Africa: Basutoland; Cape Prov.: Mafeking; O.F.S.: Bothaville; Transvaal: KNP — C139 (A. A. Boonzaaier); Tshokwane, C133, C135, Pretoriuskop Rest Camp, Malelane, S20, S32 (A. J. Prins); S12 (J. J. Cillie).

4. *T. sericeiventre* Em. subsp. *femoratum* Em.

Type Locality: Makapan, Tvl., South Africa (E. Simon).

Distribution: South Africa: Transvaal: KNP — Tshokwane, C43 (J. J. Cillie); Nwaswitsonso Dam (A. A. Boonzaaier); Shingwidzi, N25, C135, C121, C69, S41, Lower Sabie, S33, S12 (A. J. Prins).

This form preys on *D. helvolus*, *O. weitzeckeri arnoldi*, *Ph. megacephala* and *T. setuliferum*.

IX. GENUS *XIPHOMYRMEX* FOREL.

(Ethiopian, Malagasy, Indomalayan, Papuan, Australian, Nearctic).

X. weitzeckeri Em.

Type Locality: Verulam, Natal, South Africa (Weitzecker).

Distribution: Rep. of the Congo; Southern Rhodesia; South Africa: Natal: Durban; Stamford Hill; Transvaal: KNP — C139 (A. A. Boonzaaier).

X. GENUS *CATAULACUS* F. SMITH.

(Ethiopian, Malagasy, Indomalayan, Papuan).

C. rugosus For.

Type Locality: Delagoa Bay, Mocambique (A. Müller; Liengme).

Distribution: Tanganyika; Zanzibar; South Africa: Transvaal: KNP — N51, C69 (A. A. Boonzaaier); Pumbe, S61, S20 (A. J. Prins).

E. SUBFAMILY DOLICHODERINAE FOREL.

I. GENUS TAPINOMA FÖRSTER.

(Cosmopolitan, except New Zealand).

1. *T. arnoldi* For.

Type Locality: Plumtree, Southern Rhodesia (G. Arnold).

Distribution: Southern Rhodesia; South Africa: Natal: Transvaal: KNP — C81 (J. J. Cillie).

2. *T. voeltzkowi* For. var. *rhodesiae* For.

Type Locality: Bulawayo, Southern Rhodesia (G. Arnold).

Distribution: South Africa: Transvaal: KNP — S92 (A. J. Prins).

II. GENUS TECHNOMYRMEX MAYR.

(Ethiopian, Malagasy, Indomalayan, Papuan, Australian, Southern Japan).

T. albipes Sm. subsp. *foreli* Em.

Type Locality: Madagascar.

Distribution: Angola; South Africa: O.F.S.: Bloemfontein; Natal: Durban; Mountain Rise near Pietermaritzburg; Zululand: Dukudu; Cape Prov.: Willowmore; Vryburg; Transvaal: KNP — N107, S61 (A. J. Prins); S43, Malelane, S20 (J. J. Cillie); Tshokwane (A. A. Boonzaaier).

F. SUBFAMILY FORMICINAE LEPELETIER.

I. GENUS ANOPLOLEPIS SANTSCHI.

(Palearctic, Ethiopian, Malagasy, Indomalayan, Papuan, Australian).

(a) Subgenus *Anoplolepis* Sant.

A. trimeni For.

Type Locality: Natal (Mutschinson).

Distribution: Southern Rhodesia; South Africa: Transvaal: KNP — N107, N216, Olifants Rest Camp (A. J. Prins).

(b) Subgenus *Zealleyella* Arn.

A. custodiens Sm.

Type Locality: Port Natal, Natal.

Distribution: Rep. of the Congo; Angola; Somali Rep.; Kenya; Tanganyika; Zanzibar; Mocambique; Bechuanaland; South West Africa; Northern Rhodesia; South Africa: Cape Prov.:

Kimberley; Vryburg; Willowmore; Natal: Pietermaritzburg; Malvern; Durban; Zululand: Umfolozi; Basutoland: Lessouto; O.F.S.: Bothaville; Transvaal: Lydenburg; Makapan; Pretoria; Hamman's Kraal; Valdezia; KNP — N51, C113, S43, S12, Pretoriuskop Rest Camp (A. J. Prins); C133 (A. A. Boonzaaier); S92, Tshokwane (J. J. Cillie).

II. GENUS *PLAGIOLEPIS* MAYR.

(Palearctic, Ethiopian, Malagasy, Indomalayan, Papuan, Australian).

P. pygmaea Latr. var. *bulawayensis* Arn.

Type Locality: Bulawayo, Southern Rhodesia.

Distribution: South Africa: Transvaal: KNP — N61, C121 (A. J. Prins); Letaba (J. J. Cillie).

III. GENUS *ACANTHOLEPIS* MAYR.

(Mediterranean, Central Asia, Ethiopian, Malagasy, Indomalayan).

1. *A. submetallica* Arn.

Type Locality: Bulawayo, Southern Rhodesia (G. Arnold).

Distribution: South Africa: Transvaal: KNP — C154 (A. A. Boonzaaier); Malelane (J. J. Cillie).

2. *A. capensis* Mayr. var. *validiuscula* Em.

Type Locality: Webi, Abyssinia (Ruspoli).

Distribution: Rep. of the Congo; Rhodesia; South Africa: Cape Prov.: (very common), Kimberley; King Williams Town; Transvaal: KNP — N40, Nwanedzi (A. J. Prins); S20, Pumbe (J. J. Cillie).

3. *A. capensis* Mayr. subsp. *hirsuta* Sant. var. *elevata* For.

Type Locality: Hillside, Bulawayo, S.Rhod. (G. Arnold).

Distribution: South Africa: Transvaal: KNP — Nwanedzi (J. J. Cillie).

4. *A. capensis* Mayr subsp. *laevis* Sant. var. *incisa* For.

Type Locality: Elizabethville, Katanga, Rep. of the Congo (J. Bequaert).

Distribution: Kenya; South Africa: Transvaal: KNP — S30, S20 (A. J. Prins).

IV. GENUS *CAMPONOTUS* MAYR.

(Cosmopolitan).

(a) Subgenus *Tanaemyrmex* Ashm.

1. *C. maculatus* F.

Type Locality: In Africa aequinoctiali (Probably Sierra Leone).

Distribution: Rep. of the Congo; South Africa: Natal: Zulu-

land: Dukuduku; Transvaal: Pretoria; Nelspruit; Majjika; KNP — N259, Olifants Rest Camp, C59, Malelane, Tshokwane (A. J. Prins); Nwaswitsonso Dam (A. A. Boonzaaier).

The distribution of the species s.str. cannot be traced. The following areas probably include one or more of the subspecies or varieties:-

Senegal; Southern Nigeria; Cameroon; Chad; Zanzibar; Tanganyika; Kenya (including Lamu Isl., Fundu Isl., Manda Isl., and Patta Isl.); Somali Rep.; Abyssinia; Eritrea; Sudan; Aden Protectorate, Southern Arabia; Bechuanaland; South West Africa; Mocambique; Rhodesia; South Africa: Cape Prov.: Cape Town; Kimberley; King Williams Town; East London; O.F.S.: Bloemfontein; Natal: The Bluff, Durban; Sydenham, Durban; Transvaal: Makapan; Hamman's Kraal; Pretoria; Hebron; Barberton; Lydenburg; Johannesburg.

2. *C. maculatus* F. subsp. and varieties unknown.

Distribution: Northern Rhodesia: Siamahof, Choma (W. G. H. Coaton); South Africa: Cape Prov.: Bonso Bay, East London; Laingsburg; Middelburg; Sunny Seas, Caledon; Stutterheim (A. J. Prins); Simonstown (E. D. Thomas); Transvaal: KNP — N260, N248, C172, C111, Nwanedzi, Lower Sabie, S41, S43 (A. J. Prins); N271 (J. J. Cillie).

3. *C. maculatus* F. subsp. *liengmei* For. var. —

Distribution: Northern Rhodesia: Choma (W. G. H. Coaton); South West Africa: Windhoek (F. Honiball); South Africa: Cape Prov.: Albertinia; Bredasdorp; Cathcart; George; Herbertsdale; Kleinmondstrand; Knysna; Mossel Bay; Oudekraal; Richmond; Riviersonderend; Stutterheim (A. J. Prins); Grahamstown (J. J. Cillie); Garcias Pass, Riversdale; Tulbagh (J. H. Grobler); Molenrivier, George (A. A. Boonzaaier); Transvaal: Bronkhorstspruit (J. J. Nel); KNP — N149, C154, Nwanedzi, S61, S46, S30 (A. J. Prins); S20 (J. J. Cillie); Lower Sabie (A. J. Prins and J. J. Cillie). The subspecies *liengmei* has also been collected in: Kenya; Zanzibar; South Africa: Natal: Durban; Cape Prov.: Kimberley; Algoa Bay; Transvaal: Pretoria.

4. *C. maculatus* F. subsp. *hannae* Sant.

Type Locality: Victoria Falls, Rhodesia (G. Arnold).

Distribution: South Africa: Natal: Zululand: Mtubatuba; Transvaal: KNP — S42 (A. J. Prins); Malelane (J. J. Cillie).

5. *C. maculatus* F. subsp. *lacteipennis* Sm.

Type Locality: Port Natal, Natal.

Distribution: Southern Rhodesia; South Africa: Transvaal: Makapan; Pretoria; KNP — C146, Lower Sabie (A. J. Prins).

(b) Subgenus *Myrmosericus* Em.

1. *C. petersi* Em. var. *janus* For.

Type Locality: Bothaville, O.F.S. (H. Brauns).

Distribution: South Africa: Transvaal: KNP — C135 (A. J. Prins); C146 (A. A. Boonzaaier).

2. *C. rufoglaucus* Jerd. subsp. *zulu* Em.

Type Locality: Isipingo, Natal (Weitzecker).

Distribution: Abyssinia; South Africa: Natal: Verulam; Amanzimtoti; Transvaal: KNP — C154, Nwanedzi (A. J. Prins); S33 (J. J. Cillie).

3. *C. rufoglaucus* Jerd. subsp. *vestita* Sm. var. *intuens* For.

Type Locality: Cucala, Benguela, Mocambique (J. Cruchet).

Distribution: Congo; Southern Rhodesia; South Africa: Transvaal: KNP — N97, N4, C142, Tshokwane, C113, C111, C69, Malelane, S12 (A. J. Prins); C135 (A. A. Boonzaaier); S61 (J. J. Cillie).

(c) Subgenus *Orthonotomyrmex* Ashm.

1. *C. sericeus* F.

Type Locality: Senegal (Bosc).

Distribution: Common in East Africa; Senegal; Southern Nigeria; Congo; Rep. of the Congo; Sudan; Eritrea; Abyssinia; Somali Rep.; Uganda; Kenya; Tanganyika; Egypt; Arabia; Mauritius; India; Ceylon; Aden Protectorate, Southern Arabia; Southern Rhodesia; South Africa: Transvaal: KNP — N168, C133 (A. J. Prins).

2. *C. mayri* For.

Type Locality: Valdezia, Tvl., South Africa (P. Berthoud).

Distribution: Congo; Rep. of the Congo; Cabinda; Tanganyika; Kenya (Pemba Isl.); Zanzibar; Mocambique; Southern Rhodesia; South Africa: Natal: Durban; Transvaal: Makapan; Pretoria; Hamman's Kraal; KNP — Malelane (A. J. Prins); N259, N25 (J. J. Cillie).

(d) Subgenus *Myrmetrema* For.

1. *C. robecchii* Em. subsp. *rhodesiana* For.

Type Locality: Redbank, Southern Rhodesia (G. Arnold).

Distribution: Southern Rhodesia; South Africa: Transvaal: KNP — N97, Malelane (A. J. Prins).

2. *C. grandidieri* For. subsp. *ruspolii* For. var. *rollei* For.

Type Locality: Zoutpansberg, 800m., Transvaal (Rolle).

Distribution: Rep. of the Congo; South Africa: Transvaal: KNP — N97, N272 (A. J. Prins).

V. GENUS *POLYRACHIS* SHUCKARD.

(Ethiopian, Syria, Indomalayan, Papuan, Australian).

Subgenus *Myrma* Wheeler.

1. *P. gagates* Sm. subsp. *idefinita* For.

Type Locality: Sankisia, Katanga, Rep. of the Congo (J. Bequaert).

Distribution: Kenya; Southern Rhodesia; South Africa: Natal: Amanzimtoti; Transvaal: KNP — N4 (A. J. Prins).

2. *P. schistacea* Gerst.

Type Locality: Mocambique (Peters).

Distribution: Cabinda; Rep. of the Congo; Kenya (Including Funda Isl., and Pemba Isl.); Tanganyika; Zanzibar; Nyasaland; Southern Rhodesia; South Africa: Natal: Durban; Transvaal: Lothian; Pretoria; KNP — N119, Tshokwane, C133, Nwanedzi, S18 (A. J. Prins); C139 (A. A. Boonzaaier); Malelane, S61, S46 (J. J. Cillie).

3. *P. schistacea* Gerst. var. *rugulosa* Mayr.

Type Locality: Port Natal, Natal.

Distribution: Togo; Tanganyika; Zanzibar; Kenya; Cameroon; Congo; Cabinda; Rep. of the Congo; Somali Rep.; Abyssinia; Mocambique; Angola; Rhodesia; South Africa: Cape Prov.: Kimberley; Transvaal: Makapan; Hamman's Kraal; Valdezia; KNP — N260, C61, S92, S23 (A. J. Prins).

4. *P. spinicola* For.

Type Locality: Delagoa, Mocambique (Junod).

Distribution: Zaire Angola; South Africa: Cape Prov.: Grahams-town; Port Elizabeth; Natal: Durban; Transvaal: KNP — Nwanedzi (J. H. Grobler).