

A list of Ants of Singapore and some neighbouring places

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A list of Ants of Singapore and some neighbouring places.

H. OVERBECK.

From November 1912 up to the end of June 1914 the writer collected ants in Singapore for Mr. H. Viehmeyer, the well-known specialist in Dresden. Attempts were made to solve some problems of the local ant-fauna, and to breed ants by keeping the different ♀ ♀ caught at the lamp in a kind of incubator made of plaster-of-Paris which sometimes proved successful. The whole work and further plans were stopped by the outbreak of the war. The results obtained so far have been dealt with at length by Mr. Viehmeyer in the "Archiv für Naturgeschichte," 81 Jahrgang, 1915, Abt. A, Heft 8, pp. 118-168, where is given a full description of all new species. The following abstract is made from Mr. Viehmeyer's paper.

The collector has to thank Mr. I. H. Burkill, Director, Botanical Gardens, Straits Settlements, for his kind assistance in determining plants and helping him with literature and for his active interest taken in the collector's work.

Collecting-grounds.

1. The garden of the collector's house, situated at the 7th mile, Bukit Timah Road, area about 15 acres, planted with fruit-trees, coconut-palms and rubber-trees. Main collecting-ground; when no other place is mentioned this garden is always to be understood.
2. Bukit Timah Hill, Singapore.
3. Jurong Road, Singapore.
4. Chua Chu Kang Road, Singapore.
5. Mandai Road, Singapore.
6. Ulu Beri, Singapore.
7. Ayer Terjun, Singapore.
8. Pulau Bulan (Riouw-Archipelago) south of Singapore.
9. St. Barbe (Pulau Pëjantan), a small island in the Southern China Sea, halfway between Singapore and Pontianak.
10. Gunong Angsi, 2700 ft., west of Seremban, Negri Sembilan, F. M. S.
11. Perhentian Tinggi, a rubber-plantation at the foot of the Gunong Angsi.
12. Cucub Id., S. W. Johore.

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To the five last-mentioned places occasional trips only were made, and no systematic collecting could be done. Pulau Bulan and Perhentian Tinggi did not yield anything not found in Singapore, whilst on Cucub the collector found one and in St. Barbe three kinds of ants not found in Singapore. A few hours collecting on the slopes and in the neighbourhood of the bungalow on the top of the Gunong Angsi produced 45 different kinds of ants, 25 of which had not been found in Singapore. A closer survey should give very interesting results.

Methods of collecting.

The ants were collected into small glass tubes and, as far as possible, the different colonies were kept separate. Following Mr. Viehmeyer's instructions, different methods of collecting have been tried. The most successful one was that followed by Forel in the jungles of Columbia, i.e., searching for colonies of ants in hollow places in plants and trees, in rotten tree-stumps and branches, in decaying wood, underneath loose bark, in branches hollow or honey-combed by beetle-larvae and white ants, etc., etc. Very good results were yielded by a hedge of small bamboo in the collector's compound, cut down by the gardener at regular intervals, where the internodes cut open and withered harboured by far the greatest number of colonies and kinds. The sieve could but rarely be used. Baiting for ants with honey met with some difficulty in regularly collecting the ants attracted by the bait. The sweeping of shrubs and trees with a butterfly-net gave sometimes good results, but was rather painful for the collector owing to the startling of mosquitoes and wasps (*penyengut*). The captures at the lamp during the evening gave good results throughout the year and yielded many kinds, the colonies of which could not be found. Quaint, but sometimes very productive, places of collecting were the cups of the Nepenthes, or Pitcher-plants, where ants nearly always form the greater part of the remains of insects contained. White-ant hills, which harbour many kinds of ants, were rare.

Altogether more than 300 tubes were sent home which yielded more than 190 different kinds of ants of which 1 genus, 1 subgenus, 16 species, 13 subspecies and 15 varieties were new. The type-specimens were in Mr. Viehmeyer's collection.

List of Species.*

Subfam. DORYLINAЕ Leach.

Dorylus (Dichthadia) levigatus F. Sm. var. **breviceps** Em. ♀

In a heap of rubbish.

Aenictus leviceps F. Sm. var. **smythiesii** For. ♀

Gunong Angsi, near the bungalow.

* Forms described as new by Viehmeyer in the paper quoted above are distinguished by being printed in italics.

Aenictus shuckardi For. ♂
At the lamp.

Subfam. PONERINAE Lep.

Phyracaces singaporenensis Viehm.
Colony in the hollow branch of a mangosteen-tree.

Platythyrea coxalis Em. ♀ ♀
In a dead branch of a living tree, in holes and passages apparently made by white-ants or beetle-larvae. Single specimens caught now and then.

Platythyrea pusilla Em. var. *egena* Viehm.
In the garden.

Platythyrea sagei For. ♀
In a half-decayed trunk of a tree lying on the ground.

Stictoponera binghami For.
Colonies in decaying wood; another in the stump of a shrub, just above the surface of the soil; another in the decaying trunk of a tree lying on the ground, half in the wood, half in the ground; another under an old tin in the garden.

Stictoponera menadensis Mayr. ♀
Top of Gunong Angsi, in the jungle.

Odontoponera transversa F. Sm. ♀
Baited with honey in the garden, single specimens from Bukit Timah Hill.

Diacamma tritschleri For. ♀
Single specimens from Water-reservoir, Thompson Road; from Bukit Timah Hill, and one specimen in a Nepenthes-cup.

Diacamma rugosum Le Guill. subsp. *vagans* F. Sm. var. *birmana* Em. ♀
Top of Gunong Angsi.

Pachycondyla (Bothroponera) insularis Em. ♀
Single specimens found when digging up a white-ant hill between the roots of a tree; colony not found.

Pachycondyla (Bothroponera) tridentata F. Sm. ♀
Two specimens in a Nepenthes-cup.

Pachycondyla (Ectomomyrmex) leeuwenhoeki For. ♀
In a rotten, half-decayed branch lying on the ground, Bukit Timah Hill.

Pachycondyla (Ectomomyrmex) overbecki Viehm.
Colony between the roots of a tree in loose earth.

Euponera (Trachymesopus) sharpi For. ♀ ♀
As neighbour of, or living together with white-ants; also single specimens.

Euponera (Trachymesopus) crassicornis Em. ♀

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Euponera (Trachymesopus) darwini For. var. **indica** For. ♀

Both species, of which only the ♀ ♀ are known, came to the lamp throughout the year, the former rarely, the latter more frequently. No ♂ caught which could be determined as such with absolute certainty. Attempts at breeding in the incubator failed, and so did a two years' search for a colony.

Pseudoponera amblyops Em. ♀

Single specimens in the garden.

Ponera confinis Rog. var. n. **singaporensis** Viehm.

In the wet pulp of a large fungus on a tree attacked by white ants, and in the rotten wood of a decaying branch.

Ponera confinis Rog. subsp. n. **epinotalis** Viehm.

Under a flower-pot in the garden.

Leptogenys (Lobopelta) diminuta F. Sm. subsp. **hodgsoni**
For. ♀

From the slopes of the Gunong Angsi.

Leptogenys (Lobopelta) pequeti E. André. ♀

In a rotten tree lying on the ground; also single specimens in the garden.

Anochetus punctiventris Mayr. ♀

Single specimens in the garden.

Anochetus agilis Em.

Single specimens in the garden.

Odontomachus rixosus F. Sm. ♀

In the garden between the roots of a tree; found when digging up a white-ant hill; baited at night with honey; single specimens from Bukit Timah Hill.

Odontomachus rixosus F. Sm. var. **obscurior** For. ♀ ♀

From the top of Gunong Angsi.

Odontomachus haematoda Linn. ♀

In the garden and from Pulau Bulan.

Subfam. MYRMICINAE Lep.**Sima rufonigra** Jerd. ♀ ♀

Jurong Road, garden, and in a Nepenthes-cup from Ayer Terjun.

Sima pilosa F. Sm. ♀ ♀

Colonies in dead twigs of Mangosteen-trees and in withered bamboos.

Sima (Tetraponera) allaborans Walk. ♀ ♀ ♂

Colonies in dead twigs of Mangosteen-trees.

Sima (Tetraponera) allaborans Walk. var. **sumatrensis**
Em. ♀ ♀

Colony in the dead branch of a shrub; also single specimens.

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Sima (Tetraponera) allaborans Walk. subsp. **crassiuscula**
Em. ♀

Two specimens in Nepenthes-cups.

Sima (Tetraponera) fulva Viehm.

Colony in the hollow twig of a mangosteen-tree. Possibly only a subspecies of *allaborans*.

Sima (Tetraponera) attenuata F. Sm. ♀

Single specimens in the garden.

Sima (Tetraponera) difficilis Em. subsp. **longiceps** For.

Colony in the hollow branch of a Chiku-tree.

Sima (Tetraponera) siggi For. (var.?)

In the hollowed-out pith-channel of a bough of a mangosteen-tree. A single wingless ♀ in a similar spot.

Slightly varies from Forel's description; if different, Mr. Viehmeyer suggests the name var. *setifera*.

Pheidole nodgii For. ♀ 24 ♀

One colony under a flower-pot; another underneath a felled tree on the ground, colony on the tree not in the ground, but covered up by the ants with earth.

Pheidole inscrobiculatus Viehm.

From the slopes of the Gunong Angsi.

Pheidole rinae Em. ♀ 24

Single specimens in the garden; also found on Jambu-fruits lying on the ground.

Pheidole plagiaria F. Sm. ♀ 24

Gunong Angsi.

Pheidole javana Mayr. ♀ 24 ♀ ♂

Colonies in rotten wood; underneath a decaying tree lying on the ground, partly in the tree, partly in the ground; in a dead stump of a tree filled up with humus, and similar places.

Pheidole exasperata Mayr. var. **politula** Viehm. ♀ 24

Colony in a rotten branch lying on the ground, Bukit Timah Hill. In two Nepenthes-cups the prothoraces of a new form (♀) related to *exasperata* were found, marked by a singularly narrow, long head.

Pheidole (Ischnomyrmex) longipes F. Sm. var. **conicollis**

Em. ♀ 24 ♀

In a rotten, half-decayed branch of a tree, lying on the ground, Bukit Timah Hill.

Pheidole (Ischnomyrmex) longipes F. Sm. var. **continentis**

For. ♀ 24

In a rotten branch of a tree, lying on the ground, Bukit Timah Hill. ♀ and 24 very aggressive.

Rhopalomastix rothneyi For. ♀ ♀ ♂

In dead ends of twigs of Mangosteen-trees, and in the bark of the Durian-tree.

Myrmicaria arachnoides F. Sm. ♂ ♀

At the lamp; a single wingless ♀ in a small pasteboard cell underneath a leaf.

Myrmicaria dromedarius F. Sm. ♀ ♀

Gunong Angsi; a number of ♀ ♀, having already shed their wings, on a path in the jungle, digging holes into the ground.

Cardiocondyla wroughtonii For. subsp. ***quadraticeps*** For. ♀

Caught with the net; colonies in withered bamboo, especially between the fibres of the tubes; in a dry branch lying on the ground.

Cardiocondyla nuda Mayr. ♀

Single specimens from St. Barbe Id. and in the garden.

Cremastogaster rogenhoferi Mayr. ♀

Caught with the net; in Nepenthes-cups; on a tree, visiting *Coccidae*.

Cremastogaster artifex Mayr. ♀ ♂

From Jurong Road, and in Nepenthes-cups. Fairly large pasteboard nests round branches of trees and shrubs to serve as colonies, and smaller ones on leaves to shelter *Coccidae*.

Cremastogaster modiglianii Em. var. ***sarawakana*** For. ♀

Single specimens from St. Barbe Id.

Cremastogaster overbecki Viehm.

Colony in a dead branch of a tree honeycombed by white-ants and beetle-larvae.

Cremastogaster longipilosa For. ♀ ♀

Single specimens in the garden; caught with the net; baited with honey; in Nepenthes-cups from Ayer Terjun.

Cremastogaster spengeli For. subsp. ***talpingensis*** For. var. ***picata*** Viehm.

From the top of Gunong Angsi.

Cremastogaster millardi For. ♀

Underneath the bark of dead branches; in dead branches in passages made by white-ants and beetle-larvae; twice a first generation in a hollow branch; ♀ ♀ frequently at the lamp. Attempts of breeding three times successful, first generation up to ten ♀ ♀, of the same size as the first generations found in hollow branches. Single specimens frequent, also caught with the net and found in Nepenthes-cups.

Cremastogaster ferrarii Em. ♀

Colonies in withered bamboo; single specimens from Chua Chu Kang Road and Cucub Id., also in Nepenthes-cups.

Cremastogaster subnuda Mayr. subsp. ***politula*** For. var. ***ruginota*** For. ♀

In the stump of a branch on a living tree; single specimens; also caught with the net.

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Cremastogaster (Physocrema) deformis F. Sm. ♀

Single specimens in the garden, from Chua Chu Kang Road, Ayer Terjun, Bukit Timah Hill and from the slopes of Gunong Angsi.

Cremastogaster (Physocrema) inflatus F. Sm. ♀

Nest (made from earth or pasteboard) on a branch high up on a tree at Chua Chu Kang Road. Seems to breed *Coccidae* in the fissures of the bark and underneath loose bark.

Cremastogaster (Decacrema) decamera For. ♀

At the lamp.

Cremastogaster (Decacrema) borneensis E. André, subsp. *hosei* For. var. *tubuli* Viehm.

In the hollow shafts at the end of the branches of a large tree-like *Macaranga* at Mandai-Road. Very aggressive.

Cremastogaster (Decacrema) borneensis E. André var.? or subsp.?

Mr. Viehmeyer is not quite sure about this form; should it be a new one, he suggests the name of **macarangae**. In the hollow internodes of the shafts of *Macaranga hypoleuca* Muell. Arg. (I. H. Burkhill det.) from Bukit Timah Hill and from the slopes of Gunong Angsi. (See H. N. Ridley, Symbiosis of Ants and Plants. Annals of Botany XXIV, 1910, pp. 457-483, T. xxxv and xxxvi).

Mr. Burkhill found in the hollow shafts of a *Macaranga* inhabited by ants some *Coccidae*, the size of which showed that probably they had been brought in by the ants when quite young.

In the same kind of *Macaranga* from Bukit Timah and Gunong Angsi the same kind of ant has been found, whilst another kind of *Macaranga* was inhabited by another kind of ant.

Dilobocondyla cataulacoidea Stitz var. *fulva* Viehm.

Colony in the hollowed-out pith-channel of a twig of a Mangosteen-tree; single specimens in Nepenthe-cups.

Prystomyrmex pungeus Mayr. ♀

Caught with the net in the garden.

Calyptomyrmex beccarii Em. var. *glabratus* Viehm.

Three single specimens in the garden.

Meranoplus bicolor Guer. ♀ ♂ (?)

Colony in the ground, narrow passages in loamy soil which go deep below the surface. Single specimens on the extra-floral nectaries of the spider-orchid, and on Jambu-fruits lying on the ground. Moves very slowly.

Meranoplus mucronatus F. Sm. ♀

From Gunong Angsi, colony in a hollow tree.

Vollenhovia brevicornis Em. subsp. ***minuta*** Viehm.

Three single specimens from Gunong Angsi.

Vollenhovia overbecki Viehm.

Colony in a rotten trunk of a tree, Jurong Road; also in the garden.

Vollenhovia rufiventris For. ♀

Colony in the soft wood of a half-decayed tree lying on the ground.

Monomorium butteli For. subsp. ***demochrum*** Viehm.

A number of ♀ ♀ under a flower-pot on a table under the portico.

Monomorium minutum Mayr. subsp. ***liliuokalanii*** For. var. ***javana*** For. ♀

In the garden, and from Gunong Angsi; colony in a dead branch and in the stump of a branch.

Monomorium floricola Jerd. ♀ ♀ ♂

In the garden and from Gunong Angsi; in passages made by white-ants and underneath the bark of trees; on the extra-floral nectaries of the spider-orchid; colonies under loose bark, in hollow twigs of the Mangosteen-tree and in withered bamboo.

Monomorium latinoda Mayr. ♀

Single specimens in the garden.

Monomorium destructor Jerd. subsp. ***mayri*** For. ♀

Single specimens from St. Barbe Id.

Monomorium pharaonis L. ♀ ♀

In withered bamboo; mostly single specimens in house and garden. One colony in the office between old letters; also from on board of a mail-steamer.

Monomorium (Martia) atomus For. var. ***procax*** For. ♀ ♀

From Bukit Timah Hill and in the garden, colonies in dead, hollowed-out branches; also single specimens and caught with the net.

Monomorium (Corynomyrmex) n. subg. ***hospitum*** Viehm.

24 ♀ ♀ and 2 ♂ ♂ together with a number of ♀ ♀ of *Monomorium floricola* in narrow passages in the stump of a branch.

Solenopsis overbecki Viehm.

Colony in narrow passages in a piece of branch lying on the ground. Polygynous colony with 4 ♀ ♀ which had lost their wings.

Lophomyrmex bedoti Em. ♀

In the rotten trunk of a tree lying on the ground.

Pheidolegeton diversus Jerd. ♀ ♂

In the garden; colony in wood; a procession of ♀ ♀ in the Botanical Garden; the ♂ at the lamp.

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Pheidologeton affinis Jerd. ♂

In the garden, single specimen found in the act of being carried away by *Plagiolepis longipes* Jerd.

Oligomyrmex overbecki Viehm.

Colony in an old trunk of a tree lying on the ground.

Tetramorium guineense Fab. ♀ ♀ ♂

On trees; in old passages of white-ants; on Jambu-fruits lying on the ground; ♀ ♀ frequently at the lamp. Colonies in wood and bamboo; one solitary ♀, having lost her wings, in a withered bamboo; also from St. Barbe Id.

Tetramorium scabrum Mayr. ♀

Single specimens from the garden.

Tetramorium obtusidens Viehm.

Two ♀ ♀ together with *Cataulacus praetextus* and *Technomyrmex albipes* in a rotten branch, Jurong Road.

Tetramorium pulchellum Em. ♀

One specimen caught with the net in the garden.

Rhopthromyrmex rothneyi For. var. **intermedia** For. ♀

Rhopthromyrmex rothneyi For. subsp. **sumatreensis** For. ♀

Both from Gunong Angsi.

Xiphomyrmex smithi Mayr. var. **kanarensis** For. ♀

Single specimens in the garden; caught with the net; frequently on Jambu-fruits lying on the ground. Colony in the ground.

Triglyphothrix striatidens Em. ♀ ♀

Chiefly single specimens in the garden; once as visitors of coccidae on a flower. Colony under a flower-stand, in a hollow part of the bottom.

Triglyphothrix lanuginosa Mayr.

Single specimens in the garden and from Gunong Angsi.

Cataulacus horridus F. Sm. ♀

One specimen from Gunong Angsi.

Cataulacus praetextus F. Sm., var. **sumatreensis** For. ♀

Together with *Tetramorium obtusidens* and *Technomyrmex albipes* in a withered branch of a tree at Jurong Road; also in Nepenthes-cups.

Cataulacus granulatus Latr. subsp. **hispidus** F. Sm. ♀ ♀ ♂

Single specimens in the garden; caught with the net; at the water-reservoir, Thompson-Road. Colonies in withered bamboo.

Strumigenys godeffroyi Mayr. ♀ ♀

Colony in the fibrous tissue about the base of the leaves of a coconut-tree.

Proatta butteli For. ♀

In a white-ant hill in the garden.

Subfam. DOLICHODERINAE For.

Dolichoderus (Hypoclinea) affinis Em. ♀

Under the bark of a branch of a dead tree.

Dolichoderus (Hypoclinea) affinis Em. var. **nigricans** Em. ♀Frequently polygynous colonies with many ♀ ♀ having lost their wings. In one colony an empty pupa of *Microdon*. Colonies in withered bamboo and under loose bark; single specimens from Gunong Angsi; ♀ ♀ frequently at the lamp.**Dolichoderus (Hypoclinea) tuberifer** Em. ♀

From Gunong Angsi.

Dolichoderus (Hypoclinea) sulcaticeps Mayr. ♀Pasteboard nests underneath leaves, partly for habitation, partly for keeping *Coccidae*.**Bothriomyrmex wroughtoni** For. subsp. **dalyi** For. ♀

In the foot of a hollow tree, passages like those of white-ants.

Iridomyrmex anceps Rog. ♀ ♀ ♂

Colony twice in the ground; single specimens, and caught with the net; ♀ ♀ at the lamp, once in great numbers at night on a steamer in the Straits of Malacca, at a fair distance from the shore. Also from Gunong Angsi and Pulau Bulang.

Iridomyrmex levigastus Em. ♀ ♀ ♂Colonies in bamboo and hollow branches, in fissures of the bark or under loose bark, covered up with earth; in the tubers of a *Dischidia* in the Botanical Gardens and on a tree at Ulu Beri under moss and orchids. Single specimens from Bukit Timah Hill, Chua Chu Kang Road, Ayer Terjun, Pulau Bulang and in *Nepenthes*-cups. ♀ ♀ and ♂ ♂ at the lamp; ♀ ♀ very aggressive.**Tapinoma andamanense** For. var. **capsincola** For. ♀ ♀

Colonies in the dry branch of a Jambu-tree, in withered bamboo, and in the hollow twig of a Mangosteen-tree. One polygynous colony with 4 ♀ ♀, which had lost their wings.

Tapinoma melanocephalum Fabr. ♀ ♀

Colony under loose bark, closed up with earth, and in a branch lying on the ground.

Tapinoma indicum For. ♀ ♀ ♂

Colony in decaying wood in the ground, and in the stump of a tree, not far above the surface of the ground, between the stem and loose bark, closed up with earth. Single specimens; also caught with the net; on Jambu-fruits lying on the ground.

Technomyrmex albipes F. Sm. ♀ ♀

Colonies in rotten wood, hollow branches and withered bamboo. Caught with the net; single specimens also from Bukit Timah Hill and Gunong Angsi.

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Technomyrmex albipes F. Sm. var. *cordiformis* Viehm.

Colony in a hollow broken piece of a branch of a tree at Ayer Terjun.

Technomyrmex modiglianii Em. subsp. *elatior* For. ♀

Single specimens from Gunong Angsi, one specimen in the garden.

Technomyrmex schimmeri Viehm.

In withered bamboo.

Semonius glaucus Viehm.

One single specimen in the garden. Of this genus previously only one species was known from the Kalahari.

Subfam. CAMPONOTIDAE For.

Plagiolepis longipes Jerd. ♀ ♀ ♂

Very frequent in house and garden; one colony in a hollow tree; ♀ ♀ and ♂ ♂ at the lamp; also from St. Barbe.

Plagiolepis exigua For. ♀ ♀ ♂

Colonies in withered shoots of bamboo close to the ground, the hollow internodes filled up with loamy soil, wherein the passages of the colony; also between the longitudinal fibres of withered bamboo; in a dry branch lying on the ground and in a hollow twig of a Mangosteen-tree.

Plagiolepis bicolor For. ♀ ♀

Caught with the net; colonies under bark or in hollow twigs of a mangosteen-tree.

Plagiolepis rothneyi For. subsp. *splendida* Viehm.

Single specimens in the garden, also caught with the net and very frequent in Nepenthes-cups from Ayer Terjun.

Acropyga acutiventris Rog. var. *rubescens* For. ♀ ♀ ♂

Colony in a half-decayed branch lying on the ground, honey-combed with passages partly covered with earth (white-ants?); part of the colony in the ground underneath the branch. Seems to be shy of the light.

Oecophylla smaragdina Fabr. ♀ ♂

Several nests in the garden; in Nepenthes-cups; from St. Barbe Id.

Prenolepis jerdoni Em. ♀

Caught with the net in the garden; in Nepenthes-cups from Ayer Terjun.

Prenolepis (Nylanderia) longicornis Latr. ♀

From Gunong Angsi.

Prenolepis (Nylanderia) butteli For. subsp. *malaccana* Viehm.

One specimen only from Gunong Angsi. Perhaps a distinct species.

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Prenolepis (Nylanderia) yerburyi For. ♀
From St. Barbe Id.

Prenolepis (Nylanderia) clandestina Mayr. ♀ ♀ ♂
Colony underneath the bark of a branch lying on the ground.

Prenolepis (Nylanderia) minutula For. subsp. **atomus** For. ♀
Colony in the fibrous texture on a coconut-palm under the base of an old frond.

Pseudolasius circularis Viehm.
♀ caught at the lamp.

Pseudolasius ludovici For. ♀
Caught at the lamp. Attempt of breeding failed when the larvae had turned into pupae.

Pseudolasius mayri Em. var. **elisae** For. ♀ ♂
Caught at the lamp, Sungei Burong Estate, Cucub Id.

Pseudolasius mayri Em. var. **duplicata** Viehm.
♀ caught at the lamp.

Pseudolasius martini For. ♂
Caught at the lamp. Possibly a var. or subspec. of the form described by Forel; in that case Mr. Viehmeyer suggests the name **eximius**.

Pseudolasius badius Viehm.
♀ caught at the lamp.

Genus OVERBECKIA Viehm.

Overbeckia subclavata Viehm.

Colonies in withered bamboo; one colony in the hollow branch of a Mangosteen-tree.

Camponotus (Myrmoturba) festinus F. Sm. var. **eximius**
Em. ♀
Caught at the lamp.

Camponotus (Myrmoturba) arrogans F. Sm. ♀ ♂ ♀
In withered bamboo; in a Mangosteen-tree; single specimens. Also from Gunong Angsi. ♀ ♀ at the lamp.

Camponotus (Myrmoturba) subnudus Em. ♀ (minor).
At the lamp.

Camponotus (Myrmoturba) subnudus Em. var. **obfuscata**
Viehm.
Colony in withered bamboo; one solitary ♀ in a rotten branch lying on the ground.

Camponotus (Myrmoturba) tinctus F. Sm.
♀ caught at the lamp; colony in a half-decayed branch lying on the ground.

Camponotus (Myrmoturba) tinctus F. Sm. var. **carinifer**
Viehm.
Colony in the rotten trunk of a tree, Jurong Road.

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Camponotus (Myrmoturba) maculatus Fabr. subsp. **fatuus**

For. var. **frater** Em. ♀ 24 ♀ ♂

In a hollow tree.

Camponotus (Myrmoturba) maculatus Fabr. subsp. **maxwellensis** For. ♀

In a hollow branch of a tree.

Camponotus (Myrmoturba) maculatus Fabr. subsp. **mitis** F. Sm. 24

Single specimens in the garden.

Camponotus (Myrmoturba) maculatus Fabr. subsp. **mitis** F. Sm. var. **fuscithorax** For. ♀ 24 ♀ ♂

Colonies in the end of a branch of a dead tree, in bamboo and under an old packing-case on the ground; in the garden and from the foot of Gunong Angsi. A ♀ caught at the lamp raised a first generation of ♀ ♀ in the incubator.

Camponotus (Dinomyrmex) gigas Latr. ♀ 24

From Bukit Timah Hill, Water-reservoir Thompson Road, and from Ayer Terjun, single specimens only. One 24 in a Nepenthes-cup.

Camponotus (Dinomyrmex) inezae For. var. **simalurana** For. ♀ 24

In the trunk of a tree honeycombed by white-ants.

Camponotus (Myrmothrix) nicobarensis Mayr. var. **exiguoguttatus** For. ♀

Single specimens from Gunong Angsi.

Camponotus (Myrmotarsus) nigricans Rog. subsp. **nitidiceps** Viehm.

♀ caught at the lamp.

Camponotus (Myrmomalis) hospes Em. subsp. **adultus** Viehm.

Single specimens from the jungle, Gunong Angsi.

Camponotus (Myrmamblys) moeschi For. var. **lygaea** Viehm.

One solitary specimen from Ayer Terjun, and one in a Nepenthes-cup.

Camponotus (Myrmamblys) bedoti Em.

Colonies in withered bamboo.

Camponotus (Myrmamblys) bedoti Em. subsp. **sericellus** Viehm.

Between bark and stem on a Chiku-tree; two single specimens together with *Dolichoderus affinis*, also under loose bark.

Camponotus (Myrmamblys) bellus For. 24 ♀

Colonies generally in withered bamboo; twice in the hollow branch of a tree. Outside of the colonies only caught once with the net.

Camponotus (Myrmamblys) bellus For. subsp. **adustus** Viehm.

One specimen, caught with the net.

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Camponotus (Myrmamblys) ephippiatus Viehm.

One specimen, caught with the net.

Camponotus (Colobopsis) gretae For. ♀

From Gunong Angsi; caught at the lamp in Singapore.

Camponotus (Colobopsis) vitreus F. Sm. ♀ ♂ ♀ ♂

Colonies in withered bamboo, in decayed wood and in hollow twigs of Mangosteen-trees. ♀ ♀ frequently at the lamp. One ♀ caught at the lamp raised 6 ♀ ♀ in the incubator.

Camponotus (Colobopsis) vitreus F. Sm. var. ***angustata***

Mayr. ♀ ♂ ♀ ♂

Colonies in the garden in rotten wood (deserted passages of white-ants?) and in bamboo; at Ayer Terjun in the stem of a fern, hollowed out to about 5 feet above the surface of the ground, with small round entrance-holes at some distance apart. Also single specimens; ♀ ♀ caught at the lamp.

Camponotus (Colobopsis) vitreus F. Sm. var. ***vittatula*** For. ♀

Caught at the lamp.

Camponotus (Colobopsis) pilosus F. Sm. ♀ ♂ ♀

From Bukit Timah Hill and in Nepenthes-cups. Single specimens in the garden and from St. Barbe Id.

Camponotus (Colobopsis) pilosus F. Sm. subsp. ***gracilentus*** Viehm.

♀ caught at the lamp.

Camponotus (Colobopsis) badius F. Sm. ♀

From Bukit Timah Hill, Mandai Road, Gunong Angsi and in Nepenthes-cups from Ayer Terjun. One colony in the wood of a living tree (passages perhaps made by white-ants?).

Camponotus (Colobopsis) rothneyi For. ♀ ♂ ♀ ♂

In a hollow branch, Bukit Timah Hill.

Camponotus (Myrmosiphincta) camelinus F. Sm. ♀

From the top of Gunong Angsi.

Camponotus (Myrmosiphincta) dolichoderoides For. subsp. ***overbecki*** Viehm.

Pasteboard nests under the leaves of a tree at Mandai Road.

Polyrhachis (Campomyrma) fruhstorferi Em. subsp. ***varicolor*** Viehm.

Garden.

Polyrhachis (Myrmatopa) schang For. var. ***leviuscula*** Viehm.

Three single specimens caught with the net in the garden. Colony of another very similar form on a palm-leaf in the garden.

Polyrhachis (Myrmotherinax) thrinax Rog. var. ***nigripes*** Viehm.

Pasteboard nest in the twisted leaf of a shrub.

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Polyrhachis (Myrmothrinax) thrinax Rog. subsp. *inconstans*
Viehm.

Pasteboard nest in the fold of a palm-leaf; also single specimens in the garden.

Polyrhachis (Myrmothrinax) thrinax Rog. subsp. *saigonensis*
For.

One ♀ caught at the lamp.

Polyrhachis (Myrmothrinax) frauenfeldi Mayr. ♀
One ♀ caught at the lamp.

Polyrhachis (Myrmothrinax) textor F. Sm. ♀
In a Nepenthes-cup from Ayer Terjun.

Polyrhachis (Myrma) mayri Rog. var. *obesior* Viehm.
Single specimens from Gunong Angsi and Singapore.

Polyrhachis (Myrma) proxima Rog. ♀ ♀

Caught with the net in the garden; single specimens in the garden and from Bukit Timah Hill.

Polyrhachis (Myrma) pruinosa Mayr. ♀

Single specimens from Jurong Road and Mandai Road; frequently in Nepenthes-cups from Ayer Terjun.

Polyrhachis (Myrma) striata Mayr. subsp. *assamensis* For. ♀
Three specimens from Gunong Angsi.

Polyrhachis (Myrma) striata Mayr. subsp. *tritschleri* For. ♀
One specimen from Gunong Angsi.

Polyrhachis (Myrma) villipes F. Sm. ♀
One specimen caught at the lamp.

Polyrhachis (Myrma) orsyllus F. Sm. ♀ ♀
Gunong Angsi.

Polyrhachis (Myrma) orsyllus F. Sm. subsp. *ritsemai*
Mayr. ♀ ♀
Colony in withered bamboo.

Polyrhachis (Cyrtomyrma) levissima F. Sm. ♀ ♀

Single specimens from the garden and Gunong Angsi; colonies in withered bamboo (garden) and under loose bark closed up with earth (Gunong Angsi).

Polyrhachis (s. str.) bellicosa F. Sm. ♀
Single specimens from the garden and from Gunong Angsi.

Polyrhachis (Chariomyrma) arcuata F. Sm. ♀
Caught with the net in the garden.

Polyrhachis (Myrmhopla) armata Le Guill. ♀
Single specimens from Bukit Timah Hill and Gunong Angsi.

Polyrhachis (Myrmhopla) tibialis F. Sm. var. *parsis* Em. ♀
Caught with the net in the garden; in a hollow branch, of which only the bark remained, lying on the ground; in a Nepenthes-cup from Ayer Terjun.

Polyrhachis (Myrmhopla) hecuba For. ♀
Colony in withered bamboo.

Polyrhachis (Myrmhopla) hippomanes Em. subsp. *ceylonensis* Em. ♀
One specimen at the lamp.

Polyrhachis (Myrmhopla) hippomanes Em. subsp. *lucidula* Em. ♀
Colonies in withered bamboo.
Possibly new var. or subsp.; in that case Mr. Viehmeyer suggests the name *lucidissima*.

Polyrhachis (Myrmhopla) bicolor F. Sm. ♀ ♀
Single specimens from the garden and from Cucub Id.; one ♀ from Gunong Angsi.

Polyrhachis (Myrmhopla) sexspinosa Latr. var. *malaccana* Viehm.

One specimen from Gunong Angsi.

Echinopla rugosa E. André. ♀
Colony in withered bamboo.

Echinopla pallidipes F. Sm. ♀
From the top of Gunong Angsi.

Echinopla melanarctos F. Sm. ♀
From the top of Gunong Angsi.

