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**A check list of the scale insects and mealy bugs of
South Asia. Part-1**

R. K. Varshney

Zoological Survey of India

R E C O R D S
OF THE
ZOOLOGICAL SURVEY OF INDIA.

OCCASIONAL PAPER No. 139

A CHECK-LIST OF THE
SCALE INSECTS & MEALYBUGS OF SOUTH ASIA

PART I

By

R. K. VARSHNEY

Zoological Survey of India, Calcutta



सत्यमेव जयते

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F O R E W O R D

I am happy that Dr. R. K. Varshney has compiled this comprehensive checklist of the Scale Insects and Mealybugs of South Asia. This is a timely contribution since there is a growing interest in the bio-systematics of invertebrates. In fact some authors believe that there may be over fifty million species occurring in our planet, in contrast only about 1.5 million species has so far been described. If taken into consideration of invertebrates and micro-organisms, the scale insects and mealybugs can do much damage to economic plants such as sugarcane, tea, coffee and many horticultural crops. There are also beneficial insects. Among them, the lac insect is a striking example. We therefore owe a deep debt of gratitude to Dr. Varshney for this labour of love.

M. S. Swaminathan

**M. S. Swaminathan Research Foundation,
Madras.**

December 30, 1991

P R E F A C E

The scale insects and mealybugs fall under the insect order Homoptera, forming the Superfamily Coccoidea (hence the common name coccids or coccoids). They are economically important insects, since many species of them are severe sucking pests on the plants like sugarcane, tea, coffee, some vegetables and almost all kind of fruit trees. Some coccids are restricted on one or a few host plants, e.g. rice mealybug (*Brevinnia rehi*), while many others are polyphagous, e.g. striped mealybug (*Ferrisia virgata*). Some of them, e.g. san jose scale (*Quadraspidiotus perniciosus*), are feared by the orchard owners all over the world. On the other hand, a few others, e.g. lac insect (*Kerria lacca*), are beneficial to the mankind.

Structurally and biologically there is everything unique or unusual in the coccid insects (see Kosztarab, 1987).

There are about 6000 species of these insects known at present from the whole world. From the Indian region (or South Asia) the total number of species are reported as follows :

- 102 species by Green (1908),
- 369 species by Ayyar (1921),
- 301 species by Ali (1973a) and
- 624 species by Varshney (1985a).

However, the number of species becomes meaningless when in several cases one and the same species is found cited by various different names in different publications. The generic combination is changed so often that it misleads. One can imagine the confusion when the synonymies are not known. As for example, as many as 14 names have been applied to the coconut scale (*Aspidiotus destructor*) and 29 names to *Hemiberlesia lataniae* !

This was primarily one reason that the present Check-list has been compiled to sort out the nomenclatural mess.

Informations on species occurring in our region and their host plants are scattered. An attempt has been made here to put together all records of host plants and geographical distribution, with precise localities as far as known. Only the records from South Asia, comprising the countries of Bangladesh, Bhutan, Burma*, India, Maldives, Nepal, Pakistan and Sri Lanka are mentioned. The authenticity of records, however, has not been verified.

A total of 341 named species/subspecies under 117 genera are reported in the first part of present Check-list, which deals with all the families of coccids occurring in South Asia, except the diaspidids which will be covered in the second and last part.

*Presently renamed as Myanmar, with capital Yangon.

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Calcutta,

The 30th December, 1990.

R. K. Varshney

F O R M A T

The following style of presentation has been used in this Check-list :

Genus Name Author, Year.

= *Synonym* Author, Year.

Type species : *Original name* of species Author, Year.

Original name of species Author, Year : Page number.

or

Valid name of species (Author) ; Author of combination,

Year : Page number.

= *Original name* of species Author, Year : Page number ;
Synonym(s) Author, Year : Page number ; Invalid combination(s)
and lapsus calami [without author and year].

COUNTRY [of South Asia only and arranged alphabetically]
(State : Place of record) [States are arranged in adjacent range].

On *host-plant name(s)* [without any sequence, but scientific names
of plants have been generally checked].

R E S O U R C E S

The informations for the present Check-list have been gathered from different coccid collections in India and from the published works. Large number of papers, notes and stray mentions in works dealing with other subjects/aspects have been taken note of. Following are the major publications consulted, aside of which many revisions and monographs on various taxonomic units were also consulted but not indicated below.

Catalogues etc. :

- World catalogue by Fernald (1903),
- 'Coccidae of Ceylon' (5 parts) by Green (1896-1922),
- 'Coccidae' by MacGillivray (1921),
- Indo-Ceylonese host-plant index by Ramachandran & Ayyar (1934),
- Catalogue of lac insects by Kapur (1958),
- Catalogue of Eriococcidae by Hoy (1963),
- Catalogue of Diaspidoidea by Borchsenius (1966),
- Oriental catalogue (5 parts) by Ali (1969-1971),
- Catalogue of Conchaspididae by Ben-Dov (1981).

Regional Works :

BANGLADESH :

- Check-list by Chowdhury & Ullah (1984a, b ; 1985).

INDIA :

- Indian Check-list by Ayyar (1921),
- Iceryine scales from Orient by Rao (1951),
- Coccoidea collections from India by Borchsenius (1964, 1967),

Indian lac insects by Varshney (1977),
Review of Indian coccids by Varshney (1985a),
Indian Pseudococcidae by Avasthi & Shafee (1987a).

Faunal lists of :

South India by Ayyar (1924, 1930, 1936) and Sankaran et al. (1984),
West Bengal by Ghose (1961) and Varshney (in press),
N. E. India (on tea) by Das & Ganguli (1962),
Tripura by Ganguli & Ghosh (1964) and Agarwala & Varshney
(1988),
Bihar by Ali (1968a, 1968b),
Goa by Ali (1973b),
Orissa by Varshney & Moharana (1987).

NEPAL :

Hokkaido University Expdn. collections by Takagi (1975, 1977).

PAKISTAN :

Coccids and their parasites by Ahmad & Ghani (1972) and
Ghani & Muzaffar (1974).

SRI LANKA :

First regional catalogue by Green (1896a),
Indo-Ceylonese additions by Ayyar (1926),
Annotated list by Green (1937).

Works from other countries :

Atlas of scale insects of N. America (7 parts) by Ferris (1937-1955),
Fauna of USSR (vol. 8 and 9) by Borchsenius (1957, 1960b),
British Pseudococcidae by Williams (1962),
Mealybugs of California by McKenzie (1967),
Diaspididae of Taiwan by Takagi (1969-1970),
Coccidae of Virginia by Williams & Kosztarab (1972),
Scale insects of China by Tang (1977, 1984, 1986),

Taiwan Check-list by Tao (1978),
Coccids of Far-East Oriental USSR by Danzig (1980),
Check-list of armored scales of USA by Nakahara (1982),
Coccidae of Taiwan by Tao et al. (1983),
Palaeartic Check-list by Kozar & Walter (1985)

Besides, the following three publications have been consulted extensively : (i) 'Selected bibliography of Coccoidea' by Morrison & Renk (1957) upto its 3rd Supplement by Kosztarab & Kosztarab (1988) ; (ii) 'Annotated list of generic names' by Morrison & Morrison (1966) upto its 3rd Supplement by Kosztarab et al. (1986) ; and (iii) 'Family group names' by Williams (1969).

REVIEW OF LITERATURE

Earliest record of a coccid reported from South Asia seems to be that of *Coccus lacca* (now *Kerria lacca*) described by Kerr (1782). However, some of the species described by Linnaeus (1758), e.g. *Coccus hesperidum*, *C. coryli* (now *Eulecanium coryli*), *C. aonidum* (now *Chrysomphalus aonidum*) etc., have also been collected in this region. Other early records include that of *Chermes persicae* (now *Parthenolecanium persicae*), *Coccus ficus* (now *Kerria lacca*) and *C. ceriferus* (now *Ceroplastes ceriferus*) by Fabricius (1776-1798); *Coccus conchiformis* (now *Mytilaspis conchiformis*) by Gmelin (1789), and of cochineal insect by Anderson (1787), which was not named by him but by Lamarck (1801) as *Coccus tomentosus* (now *Dactylopius tomentosus*). Pearson (1794) published observations on a wax-like 'white lac' collected at Madras. Atkinson (1889) described new genus and species *Pseudopulvinaria sikkimensis* from Sikkim. Atkinson (1886) published for the first time a list of coccid insect pests of Indian region. Watt (1896, 1908) reported some coccid species in his volumes on the commercial and economic products of the then British India.

Green (1886-1937) has contributed the maximum on this subject. On coccids of Ceylon (now Sri Lanka), he first published a catalogue (1896a), then his magnum opus, five volume treatise, 'The Coccidae of Ceylon' (1896-1922), and finally an annotated list (1937) reporting 327 species from there. Green & Mann (1907) studied coccids attacking the tea plant in India and Ceylon.

From India, Green described and recorded a large number of genera and species, thus enhancing our knowledge on this group of insects considerably and also exposing the economic importance of scale insects and mealybugs to the agricultural entomologists and farmers. In 1908 he catalogued all taxa known till then from this region, reporting 102 species. Other workers of this period include Lefroy (1908) who made notes on several Indian species. Fletcher (1919, 1921) enlisted many coccids in his detailed lists of Indian crop pests.

Ayyar (1921) made an up-to-date check-list of coccids of Indian region, reporting 369 species. Misra, C. S. (1924) listed the coccids present in Pusa collection (now I. A. R. I., New Delhi) reporting 84 species from India. Mahdihassan (1923) proposed 7 species and Misra, A. B. (1930) proposed 6 species, of lac insects from this region. South Indian coccids have been exhaustively reported by Ayyar (1919-1941), with a monograph published in 1930. Ramachandran & Ayyar (1934) made a host plant index of Indo-Ceylonese coccids, arranged plant-wise. Ayyar in a number of papers made notes on occurrence of large number of species in different parts of South India.

Rao, V. P. (1939-1970) studied taxonomy of several groups of coccids. He described three new species from Baluchistan (1939); discussed *Parlatoria* complex (1941); and revised *Pinnaspis* (Ferris & Rao, 1947), *Unaspis* (1949), *Perissopneumon* with proposing a new genus *Misracoccus* (1950), and *Andaspis* (Rao & Ferris, 1952). Rao (1951) monographed Iceryini of the Orient, in two parts. Besides, Rao (1953) described some new diaspine scales; Rao & Chatterjee (1950) dealt with San Jose scale and its allied species; Rao & Kumar (1952) recorded 20 little known species; and Rao & Kamath (1967) recorded the severe pest *Icerya purchasi* from Indian region. Pruthi & Rao (1942) reported briefly coccids attacking the sugarcane in India, which Rao & Sankaran (1969) reported in detail from all over the world. V. P. Rao's later studies were in connection with the biological control of coccid pests, on which Rao et al (1971) published a review for South-East Asia. Rao, Y. R. (1931) and David & Muthukrishnan (1953) have reported on prickly pear cochineal insect, *Dactylopius tomentosus*. Rao, S. R. (1940-1943) briefly reported on *Monophlebus quadricaudatus* (now *Drosicha quadricaudata*), *Pseudococcus saccharicola* and *Trionymus sacchari* (now *Saccharicoccus sacchari*).

Dutt (1948) and Nath (1972) reported coccids of citrus in Darjeeling area. Das (1948) and Dutt (1952) reported coccid pests of jute in West Bengal. Coccids on tea plant have been reported by many workers, and a consolidated account from North-Eastern India was made by Das & Ganguli (1962). Latif (1949) discussed taxonomic status of some closely related *Drosicha* species. Agarwala (1956) formed the new combination and redescribed *Melanaspis glomerata*, the severe scale

pest of sugarcane. Ananthanarayanan et al. (1957) reported *Aonido-mytilus albus* and Muthukrishnan et al. (1955-1965) some other species in South India, on various economic plants.

Kapur (1958) catalogued the lac insects (now Tachardiidae) of world reporting 7 genera and 47 species. Ganguli (1958) described *Velataspis serrulata* from Assam. Menon & Khan (1961, 1963) described *Chionaspis venui* from Himachal Pradesh. Borchsenius & Williams (1962) described two new species of *Fiorinia* from Pakistan and (1963) of *Contigaspis* from India. Ali, S. M. (1957-1975) has dealt with various aspects of coccids, particularly those infesting the sugarcane in Bihar. He proposed two new genera of Pseudococcidae, *Indococcus* for a new species *I. pipalae* (1968a), and *Birendracoccus* (1975) for *Dactylopius saccharifolii* Green. In 1974 he discussed the systematics of paddy mealybug. His major work, a catalogue of Oriental Coccoidea was published in five parts (1969-1971), in which he reported 301 species from India proper. Borchsenius (1964, 1967) proposed some new genera and species of Diaspididae from India, a few of which have later been synonymized. Hall & Williams (1962) also dealt with some diaspid species of Indo-Malayan region, including 8 species from Indian subcontinent. Ahmad (1970) described *Fiorinia pakistanensis*.

Varshney (1962-1990) has dealt with systematics of Indian coccids, particularly lac insects. He proposed one subtribe (1966b), four new species and one new subspecies (1977) and a new subgenus *Chamberliniella* (1987), of lac insects. His 1977 monograph revised the family Tachardiidae and dealt with all Oriental taxa, out of which three genera *Kerria*, *Metatachardia* and *Paratachardina*, with a total of 24 species and subspecies are reported from South Asian countries. In other coccid families, Varshney (1966c) reported several nomina nuda species ; recorded three species from Andaman Islands (1982) ; made new records of localities and host-plants in case of 12 species (1984) ; and reported outbreak of *Drosicha stebbingii* in western Rajasthan (1985b). However, his major work is a review of coccids of Indian region (1985a), dealing with various aspects, listing 15 families, 208 genera, 624 species, and ending with an exhaustive bibliography of

Indian Coccoidea. Brookes (1978) described *Heliococcus summervillei* from Pakistan. Chacko et al. (1977, 1981) have worked on coccid pests of the coffee plant in India. Nair et al. (1977) reported *Mycetaspis personata*, a new scale pest of clove in Kerala.

Takagi (1975-1989) has made significant contributions on the taxonomy of Diaspididae of different parts of the world, including Nepal and India. He revised genera *Fiorinia* (1975, 1979), *Megacanthaspis* (1981), *Neoquernaspis* (Howell & Takagi, 1981 ; Liu et al. 1988), *Octaspidiotus* (1984), *Chionaspis* (1985), *Beesonia* (1987), *Neparla* and *Tamilparla* (1987), *Tamuraspis* (1989) etc. Takagi has described and discussed in detail taxonomy of many species complexes, but it is not possible to include these all taxa in this review. He has recently recorded *Cameronaspis* (1988) from Nepal and *Diaulacaspis* (1989) from India and Nepal, besides making many other studies. Avasthi & Shafee (1979-1989) have described new species of *Heliococcus*, *Paracoccus*, *Rastrococcus*, *Phenoccus*, *Planococcus* and *Dysmicoccus* in Pseudococcidae, and of *Cerostegia*, *Ceroplastes*, *Pulvinaria* and *Coccus* in Coccidae, from India. They have recorded some species of Trabutinini and Phenacoccini (1987b) and Coccinae (1989) providing keys from India, and consolidated Indian Pseudococcidae account (1987a) reporting 31 genera and 48 species.

Williams (1962-1989) has studied coccids of this region to a very great extent, hence described a number of genera and species, particularly in Pseudococcidae. These include new genera *Palmicultor* (1963) (new name for *Palmicola*) encountered later in Bangladesh and *Lankacoccus* (1989) from Sri Lanka, and new species of *Rastrococcus*, *Dysmicoccus*, *Rhizoecus*, *Trionymus*, *Eurycoccus*, *Chorizococcus* etc., from India and Pakistan. He published a consolidated account of mealybugs of sugarcane, rice and sorghum (1970), and another of ant-attended mealybugs (1978). However, it is not possible to include here his other large number of studies on different families of coccids. Cox (1981) described *Planococcus pacificus*, encountered widely in Bangladesh. Mahdihassan (1978) reported *Chloropulvinaria polygonata* (now *Macropulvinaria polygonata*) on mango, and (1980) reported a mixed infection of species of *Kerria*, *Ceroplastes*, *Monophlebus* and *Crypticerya* on certain plants in Pakistan. Ghose (1963) reported four species of lac insects, and (1961)

included 42 species of other coccids from West Bengal. He worked on biology, control and morphology of immature stages of some species in other papers. Ghosh, A. B. & Ghose (1987) described new genus and species *Novonilacoccus oryzae*, and Ghosh, L. C. & Ghose (1988) described a new species of *Planococcoides* from West Bengal.

Visalakshi et al. (1982) reported *Lepidosaphes mcgregori* on coconut in Kerala. Sankaran et al. (1984) reported 16 diaspine scales from South India. Coccids of Bangladesh have been listed by Chowdhury & Ullah (1984a, 1985) reporting a total of 58 species, besides two separate notes (1984b) on occurrence of *Saccharicoccus sacchari* and two species of *Rastrococcus*. From Bangladesh again, Ali, M. (1980) reported *Ceroplastes pseudoceriferus* and *Chloropulvinaria polygonata*, and (1987) reported palm mealybug *Palmicultor palmarum* for the first time from Indian subcontinent. Narasimham (1990) has provided some field diagnostic characters to differentiate three species of *Rastrococcus* in India. Varshney (1990) has published a synoptic world catalogue of lac insects, reporting two subfamilies, 8 genera and 77 species.

Thus whereas good information is available, though scattered, on the coccids of India, Pakistan, Sri Lanka, Nepal and Bangladesh, there the knowledge on coccids occurring in three remaining countries of South Asia, viz. Bhutan, Burma and Maldives, is negligible.

In the above review, publications dealing with taxonomic aspects only have been considered, i.e. publications on morphology, biology, control etc. have been excluded. Besides, publications reporting materials of countries of South Asia alone have been considered, i.e. publications on other regions dealing with same taxa, even if major and world revisions, catalogues, etc. have generally not been mentioned. These major works, as well as regional studies on the coccids of different parts of South Asia, have been shown above, under the previous heading 'Resources'. Literature published upto the year 1988, with a few additions of later years, has been consulted for the Part-I of Check-list.



Drosicha stebbingii (Green) in Rajasthan

CHECK - LIST

I. Family MARGARODIDAE

Subfamily MARGARODINAE

Tribe KUWANIINI

Genus **Kuwania** Cockerell in Fernald, 1903

= *Sasakia* Kuwana, 1902 (preoccupied).

Type species : *Sasakia quercus* Kuwana, 1902

K. zeylanica (Green) ; Fernald, 1903 : 32.

= *Monophlebus zeylanicus* Green, 1896a : 6 ; *Neogreenia zeylanica* ;
Paragreenia zeylanica ; *Kuwania zeylanicus*.

INDIA (Kerala : Calicut) [new record]. SRI LANKA (Pundaluoy

On the stem of *Antidesma bunius*.

Tribe MARGARODINI

Genus **Margarodes** Guilding, 1829

Type species ; *Margarodes formicarum* Guilding, 1829

M. formicarum Guilding, 1829 : 115.

INDIA (S. India).

On ?

M. indicus Green, 1912a : 69.

= *Margarodes indica*.

INDIA (including Bombay and Bangalore).

On roots of undet. plants, attended by ants.

M. papillosus Green, 1912a : 74

INDIA (Karnataka : Bangalore, Bellary).

In soil under rose bush and grass.

Subfamily NEOMARGARODINAE

Genus **Neomargarodes** Green, 1914

= *Neomargarodea* (lapsus).

Type species : *Neomargarodes erythrocephala* Green, 1914

N. niger (Green) ; Morrison, 1928 : 77.

= *Margarodes niger* Green, 1912a : 75.

INDIA (Karnataka : Bellary, Mysore ; Tamil Nadu : Coimbatore).

PAKISTAN (Peshawar and Rawalpindi).

In soil under roots of grass and *Cajanus cajan*.

II. Family MONOPHLEBIDAE

Subfamily MONOPHLEBINAE

Tribe ICERYINI

Genus **Crypticerya** Cockerell, 1895

Type species : *Icerya rosae* Riley & Howard, 1890

Crypticerya sp.

INDIA (Orissa : Bhubaneshwar, Taptapani, Talcher and Angul).

PAKISTAN (Shogran, Kaghan).

On *Annona squamosa*, *Casuarina* sp., mango. *Rosa indica*, *Picea smithiana* and *Shorea roxburghiana*.

C. jacobsoni (Green) ; Morrison, 1928 : 203 .

= *Icerya jacobsoni* Green, 1913 : 316.

BANGLADESH (Chittagong). BURMA. INDIA (Kerala : Cochin ; Karnataka : Bangalore ; and Assam : Dibrugarh : Jokai Forest).
On *Shorea*, *Tectonia*, *Taraktogenos kurtzii*, *Psidium*, *Artocarpus*,
Tectona, *Michelia*, *Ficus*, *Mangifera*, *Annona* and *Carica*.

C. jaihind Rao, 1951 : 148.

INDIA (Karnataka : Kanara Dist. : Mangalore ; Kerala : Cochin, Nelliampathy Hills : Chandramalai Estate, and Travancore : Tenmalai Estate ; ? Tamil Nadu : Nilambur).

On *Ficus asperima*, *Annona squamosa* and *Tectona grandis*.

C. kumari Rao, 1951 : 152.

INDIA (Karnataka : Gopalaswamy Hill).

On "darbha" grass.

Genus *Icerya* Signoret, 1875

= *Crossotosoma* Douglas, 1890 ; *Proticerya* Cockerell, 1895 ; *News-teadiella* MacGillivray, 1921 ; *Pericerya* Silvestri, 1939.

Type species : *Coccus sacchari* Guerin, 1867

***Icerya* sp.**

INDIA (Orissa : Bhubaneshwar, Dhauli, Konark, Taptapani, Rambha, Gopalpur-on-sea, Baripada and Kuliana).

On *Alangium salvifolium*, *Nerium* sp., guava, *Croton* sp., mango, rose, *Annona* sp., cashewnut, etc.

I. *ægyptiaca* (Douglas) ; Newstead, 1894a : 27.

= *Crossotosoma ægyptiacum* Douglas, 1890 : 79 ; *Icerya tangalla* Green, 1896a : 7 ; *Icerya ægyptica* (lapsus) ; *Icerya ægyptiaca* (lapsus).

BANGLADESH (Chittagong, Cox's Bazar and Dhaka). BURMA.

INDIA (very widely including Bihar, West Bengal, Tripura, Orissa, Tamil Nadu, Kerala, Karnataka and Maharashtra).

PAKISTAN (Sind : Karachi and Thatta). SRI LANKA (widely).

On many plants including spp. of *Annona*, *Acacia*, *Achras*, *Alangium*, *Aleurites*, *Artocarpus*, *Asparagus*, *Asytasia*, *Barringtonia*, *Bragantia* (now treated under *Apama*), *Barleria*, *Bidens*, *Cullenia*, *Calophyllum*, *Codiaeum*, *Cajanus*, *Capsicum*, *Casuarina*, *Cassia*, *Citrus*, *Croton*, *Dodonaea*, *Eugenia*, *Erythrina*, *Ficus*, *Glycosmis*, *Gracina*, *Helianthus*, *Hypericum*, *Jatropha*, *Lycopersicum*, *Leucas*, *Monstera*, *Mangifera*, *Montisa*, *Morus*, *Memecylon*, *Musa*, *Nesaea*, *Ocimum*, *Parkinsonia*, *Punica*, *Pithecellobium*, *Prunus*, *Plumbago*, *Polyalthia*, *Pyrus*, *Phoenix*, *Psidium*, *Rosa*, *Rubia*, *Sonneratia*, *Strobilanthes*, *Solanum*, *Tectona*, *Tinospora*, *Trema*, *Thea*, *Tamarix*, etc.

I. formicarum Newstead, 1897a : 169.

BANGLADESH (Sylhet : Srimangal and Chittagong). INDIA very widely including North-East India, West Bengal, Bihar, U.P., Orissa, Madhya Pradesh, Maharashtra, Andhra Pradesh, Karnataka, Kerala and Tamil Nadu). PAKISTAN (Karachi). SRI LANKA.

On many species of *Acalypha*, *Acacia*, *Antidesma*, *Abelmoschus*, *Achras*, *Aleurites*, *Annona*, *Artocarpus*, *Bougainvillea*, *Bauhinia*, *Caesalpinia*, *Codiaeum*, *Cassia*, *Casuarina*, *Chlorophora*, *Citrus*, *Crotalaria*, *Croton*, *Dodonaea*, *Erythrina*, *Ficus*, *Hibiscus*, *Kydia*, *Memecylon*, *Mimosa*, *Myrtus*, *Ocimum*, *Opuntia*, *Phyllanthus*, *Pithecellobium*, *Prosopis*, *Psidium*, *Pyrus*, *Rosa*, sugarcane, *Santalum*, *Shorea*, *Tamarindus*, *Tectona*, *Tephrosia*, etc.

I. menoni Rao, 1951 : 60.

INDIA (Kerala : Maradu).

On *Cocos nucifera*.

I. minor Green, 1908 : 17.

= *Leachia festiva* Kieffer, 1909 : 163.

BANGLADESH (Khulna, Kaligonj, Chittagong and Rajshahi).

INDIA (Bihar : Pusa ; U.P. : Varanasi ; and Assam : Haflong).

On mango, *Citrus* spp. and *Psidium guajava*.

I. pilosa Green, 1896a : 7.

= *Icerya seychellarum* var. *nardi* Green, 1922a : 441 ; *I. pilosa nardi* ;
I. pilosa nordi (lapsus).

INDIA (Haryana : Karnal ; Delhi ; Uttar Pradesh : Aligarh, Meerut, Shahjahanpur ; Bihar : Shahabad : Juneshwargarh Farm ; M.P. : Gwalior ; Andhra Pradesh : Sarola ; Kerala : Perungaloor, Travancore, West Coast ; Tamil Nadu : Madras, Coimbatore, Hasanoor, Satyamangalam, Kanya Kumari, Coromandel Coast). PAKISTAN (Rawalpindi). SRI LANKA (Chilaw and other coastal areas, Diyatalawa).

On *Andropogon nardus*, *Spinifex littoreus*, *Cyperus rotundus*, *Apluda* sp., sugar cane (*Saccharum officinarum*) and wild grasses.

I. pulcher (Leonardi) ; Morrison, 1928 : 208

= *Palaeococcus pulcher* Leonardi, 1907 : 3.

INDIA (Bihar : Pusa).

On *Mangifera indica*.

I. purchasi Maskell, 1879 : 221.

= *Pericerya purchasi*.

BANGLADESH (Sunderban : Chandpai Forest and Khulna).

INDIA (widely including Maharashtra, Orissa, Karnataka, Kerala and Tamil Nadu). SRI LANKA.

On many species of *Acacia*, *Anaphalis*, *Artemisia*, *Acanthospermum*, *Barberis*, *Bidens*, *Bupleurum*, *Buxus*, *Bursaria*, *Casuarina*, *Citrus*, *Camellia*, *Callistris*, *Carissa*, *Conyza*, *Cytisus*, *Cassia*, *Clausena*, *Desmodium*, *Dodonaea*, *Eupatorium*, *Ficus*, *Gaultheria*, *Glochidion*, *Justicia*, *Leucas*, *Loranthus*, *Malus*, *Osyris*, *Prunus*, *Pyrus*, *Phyllanthus*, *Plumbago*, *Rhamnus*, *Rhodomyrtus*, *Rosa*, *Solanum*, *Sophora*, *Sopubia*, *Ulex*, etc.

I. seychellarum (Westwood) ; Fernald, 1903 : 27.

= *Dorthezia seychellarum* Westwood, 1855 : 830 ; *Coccus sacchari* Guerin-Meneville, 1867 : 451 ; *Icerya crocea* Green, 1896a : 7

Icerya candida Cockerell, 1905 : 128 ; *Icerya okadae* Kuwana, 1907 : 178 ; *I. sechyllarum* (lapsus).

BANGLADESH (Sylhet : Srimangal, Aatghar, Barisal Dist. : Kuriana, and Chittagong Dist. : Patia). BURMA (Myitkyina). INDIA (widely including North-East India ; U.P. : Dehra Dun ; M P. : Mandla ; Orissa : Puri ; Maharashtra ; Karnataka : Bellary Dist. : Kottur ; Kerala ; Tamil Nadu : Coromandel Coast ; West Bengal and Andaman Is). PAKISTAN (Swat : Saidu Sharif ; Rawalpindi ; Lahore ; Sahiwal ; Karachi). SRI LANKA (Kandy, Pundaluoya, etc.),

On species of *Acalypha*, *Acacia*, *Artocarpus*, *Casuarina*, *Citrus*, *Cocculus*, *Cynodon*, *Groton*, *Cassia*, *Dodonaea*, *Grevillea*, *Morus*, *Mangifera*, *Magnolia*, *Olea*, *Psidium*, *Pyrus*, *Pterospermum*, *Rosa* and sugarcane (*Saccharum officinarum*), etc.

I. travancorensis Rao, 1951 : 140.

INDIA (Tamil Nadu : Palni Hills, Tinnevely Dist. ; Anamalai Hills, etc. ; Kerala : Devikolam, Moongalar Estate, Munnar, Talliar, Ventura Estate, etc.).

On *Acacia decurrens*, *Casuarina equisetifolia*, *Citrus* spp., *Hypericum mysorensis*, *Loranthus* sp. and *Psidium guajava*.

I. zimmermani Green, 1932 : 32.

INDIA (North-East India : Tangla and Dawki ; Bihar : Bhagalpur [new record]).

On *Citrus* sp.

Genus Steatococcus Ferris, 1921

Type species : *Palaeococcus morrilli* Cockerell, 1914

S. assamensis Rao, 1951 : 154.

INDIA (Meghalaya : Dawki).

On *Citrus* sp.

Tribe DROSICHINI

Genus Drosicha Walker, 1858

= *Cockerellella* MacGillivray, 1921 ; *Greeniella* MacGillivray, 1921 (preoccupied) ; *Greenacoccus* MacGillivray, 1921 ; *Warajicoccus* Kuwana, 1922.

Type species : *Drosicha contrahens* Walker, 1858

Drosicha spp.

INDIA (Tamil Nadu : Madras ; Bihar : Pusa). NEPAL (Ghasa 2090 m, Godavari 1450 m and Kathmandu 1340 m).

In galls of *Casearia* sp. [new record], and on *Butea* sp., *Quercus* sp., rose, etc.

D. burmeisteri (Westwood) ; Cockerell, 1902b : 233.

= *Monophlebus burmeisteri* Westwood, 1845 (1841) : 22.

INDIA (North India).

On ?

D. contrahens Walker, 1858 : 306.

= *Monophlebus (Drosicha) contrahens*.

INDIA (North-East India). PAKISTAN.

On *Citrus* spp. and *Mangifera indica*.

D. dalbergiae (Green) ; Morrison, 1928 : 169.

= *Monophlebus dalbergiae* Green in Stebbing, 1902 : 142.

INDIA (Punjab : Sutlej Valley ; Uttar Pradesh : Dehra Dun ; North Bihar).

On *Dalbergia sissoo*, *Manilkara pichras* (= *Achras sapota*), *Artocarpus integrifolia*, *Annona squamosa*, *Carica papaya*, *Citrus* spp., *Eugenia jambolana*, *Ficus* spp., *Psidium guajava*, *Punica granatum*, *Litchi chinensis*, *Musa* sp., *Mangifera indica*, *Sapium sebiferum*, *Vitex negundo*, etc.

D. leachii (Westwood) ; Cockerell, 1902b : 233.

= *Monophlebus leachii* Westwood, 1845 (1841) : 22.

INDIA (Kerala ; Pondicherry ; Uttar Pradesh : Dehra Dun).

On ?

D. mangiferae (Green) ; Morrison, 1928 : 169.

= *Monophlebus stebbingi* var. *mangiferae* Green in Stebbing, 1903 : 332 ; *Monophlebus stebbingi* var. *octocaudata* Green, 1908 : 16 ; *Monophlebus octocaudata*.

BANGLADESH (Sylhet : Srimangal and Dhaka). INDIA (Bihar : Pusa, Sitamarhi, Bhagalpur, Dalsingsarai, Santhal Parganas, Darbhanga, Muzaffarpur, etc. ; Uttar Pradesh : Fatehpur, Bareilly, Dehra Dun, etc.). PAKISTAN (Punjab : including Lahore : Shalimar Garden ; Rawalpindi ; and Dir).

On *Mangifera indica*, *Ficus bengalensis*, *F. carica*, *F. glomerata*, *F. infectoria*, *F. religiosa*, *Dalbergia sissoo*, *Alstonia* sp., *Artocarpus integrifolia*, *Litsea polyantha*, *Helianthus annuus*, *Grewia subinaequalis*, *Acacia modesta*, *Acer pictum*, guava, papaya, jamun, peach, plum, citrus, jackfruit, etc.

D. quadricaudata (Green) ; Morrison, 1928 : 169.

= *Monophlebus quadricaudatus* Green, 1922a : 434 ; *Drosichiella* (*Monophlebus*) *quadricaudata*.

INDIA (U.P. : Varanasi). SRI LANKA (Peradeniya and Kandy).

On ?

D. saundersii (Westwood) ; Morrison, 1928 : 169.

= *Monophlebus saundersii* Westwood, 1845 (1841) : 22 ; *Llaveia saundersii* ; *Drosicha saunderseii* (lapsus) ; *Drosicha saundersi*.

INDIA (North India).

On ?

D. stebbingii (Green) ; Morrison, 1928 : 169.

= *Monophlebus stebbingii* Green in Stebbing, 1902 : 135 ; *Monophlebus stebbingi* ; *Drosicha stebbingi*.

INDIA (widely including H. P. : Simla ; U.P. : Dehra Dun, Saharanpur, Varanasi, Kanpur ; Haryana : Karnal ; Bihar : Saran, Muzaffarpur, Darbhanga ; West Bengal : Howrah and Darjeeling Dist.; M. P. ; Rajasthan : Jodhpur ; etc.). PAKISTAN (N. W. F. Province ; Lyallpur, Lahore, Multan, Rawalpindi, Peshawar, Dargai : Malakand ; Dir ; Central and N. Regions).

On many plants, viz. *Shorea robusta*, *Mangifera indica*, *Tamarindus indica*, *Ficus* spp., *Butea monosperma*, *Holarrhena antidysenterica*, *Mallotus philippiensis*, *Cajanus cajan*, *Grewia asiatica*, *Artocarpus heterophyllus*, *Prunus cerasus*, *Pyrus malus*, *P. communis*, *Eriobotrya japonica*, *Eugenia jambolana*, *Citrus* spp., *Prosopis chilensis*, *Vitis vinifera*, *Ziziphus mauritiana*, *Acacia modesta*, *Acer* sp., *Melia azedarach*, *Bauhinia variegata*, *Psidium guajava*, *Lantana* sp., etc.

D. tectonae (Green) ; [?] Morrison, 1928.

= *Monophlebus tectonae* Green in Stebbing 1902 : 145 ; *Perissopneumon tectonae* ; *Drosichiella tectonae*.

INDIA (Madhya Pradesh : Damoh ; Uttar Pradesh ; Punjab).

On *Tectona grandis*.

D. variegata (Green) ; Morrison, 1928 : 169.

= *Monophlebus variegatus* Green, 1922a : 433.

SRI LANKA (Kandy).

On ?

Tribe MONOPHLEBINI

Genus **Aspidoproctus** Newstead, 1901

= *Lophococcus* Cockerell, 1901

Type species : *Walkeriana pertinax* Newstead, 1901

A. pertinax (Newstead) ; Newstead, 1917b : 125.

= *Walkeriana pertinax* Newstead, 1901a : 947 ; *Lophococcus mirabilis* Cockerell, 1901a : 248.

INDIA (Karnataka : Bangalore).

On "a wild plant".

Genus **Hemaspidoproctus** Morrison, 1927

Type species : *Walkeriana cinerea* Green, 1908

H. cinereus (Green) ; Morrison, 1928 : 148

= *Walkeriana cinerea* Green, 1908 : 18 (nom. nud.) ; *Aspidoproctus cinerea* Green, 1922a : 450.

BANGLADESH (Comilla : Borni). INDIA (Bihar : Pusa ; Delhi ; Rajasthan : Jaipur ; Gujarat : Surat ; Karnataka : Coorg ; Tamil Nadu : Coimbatore, Tinnevelly : Sengelteri ; Kerala : S. Malabar : Vadanapalle). PAKISTAN (Lahore). SRI LANKA (Pundaluoya and ?Kandy).

On *Grevillea* sp., *Citrus* sp., *Terminalia* sp., *Thespesia* sp., *Acacia arabica*, *Manilkara achras* (= *Achras sapota*), *Lawsonia inermis*, *Mangifera indica*, *Anogeissus latifolia*, guava (*Psidium guajava*), sandalwood (*Santalum album*), pomegranate (*Punica granatum*) etc.

H. euphorbiae (Green) ; Morrison, 1928 : 223.

= *Walkeriana euphorbiae* Green, 1896a : 6 ; *Aspidoproctus euphorbiae*.

SRI LANKA (Hambantota and Habarana).

On branches of *Euphorbia antiquorum*.

Genus **Labioproctus** Green, 1922

Type species : *Walkeriana polei* Green, 1896

L. poleii (Green) ; Green, 1922a : 453.

= *Walkeriana poleii* Green, 1896a : 6 ; *Walkeriana polei* ; *Labioproctus polei*.

INDIA (West Bengal : Darjeeling Distt. : Soreng, Chegra, Takdah, Duptin, Mirik, Kalimpong, Samsing, Sakiong and Darjeeling ; Orissa : Baripada and Talcher ; Karnataka : Mysore and Coorg).
SRI LANKA (Chilaw, Dolosbage, Mahintale and Nuwara Eliya).

On *Dodonaea viscosa*, *Psidium guajava*, *Eugenia rotundifolia*, *Artocarpus integra*, *Tabernaemontana* sp., *Citrus aurantium* and other spp., *Dalbergia sissoo*, *D. stipulacea*, *Solanum melongena*, *Mangifera indica*, *Gardenia florida*, *Ocimum* sp., *Ficus religiosa*, *Litsea polyantha*, *Vitex negundo*, etc.

Genus *Misracoccus* Rao, 1950

Type species : *Lophococcus convexus* Morrison, 1920

M. assamensis Rao, 1950b : 117.

INDIA (Meghalaya : Shillong).

On undet. wild tree.

M. xyliae (Ayyar) ; Rao, 1950b : 115.

= *Walkeriana xyliae* Green : Morrison, 1928 : 227 (nom. nud.) ;
Aspidoproctus xyliae Ayyar (nec Green) in Ayyar, 1930 : 69, pl. xxx.

INDIA (Tamil Nadu : Coimbatore ; Kerala : Malabar : Taliparamba ; Karnataka : Molakalmurn).

On *Xylia* sp., *Pithecellobium saman* (= *Samanea saman*) and *Dodonaea viscosa*.

Genus *Monophlebus* Guerin-Meneville, 1827

Type species : *Monophlebus atripennis* Burmeister, 1835

Monophlebus sp.

INDIA (Tamil Nadu).

On cashewnut tree.

M. atripennis Burmeister, 1835 : 80.

INDIA (N. India).

On ?

M. furcatus Green, 1922a : 433.

SRI LANKA (Pattipola, Pundaluoya and Maskeliya).

On ?

Genus **Monophlebidus** Morrison, 1927

Type species : *Monophlebidus indicus* Morrison, 1927

M. indicus Morrison, 1927 : 104.

INDIA (Karnataka : Bangalore).

On *Shorea talura*.

Genus **Nietnera** Green, 1922

Type species : *Nietnera pundaluoya* Green, 1922

N. pundaluoya Green, 1922a : 455.

SRI LANKA (Pundaluoya, Watawela, Maskeliya, Hakgala, Namunakuli, Haldummulla, Bandarawela, Pattipola, Horton Plains and Nuwara Eliya).

On *Litsea* sp., *Cinnamomum* sp., *Mallotus* sp., *Loranthus* sp., *Eurya* sp., *Psychotria* sp. and *Vitis* sp.

Genus **Perissopneumon** Newstead, 1900

= *Drosichiella* Morrison, 1927

Type species : *Perissopneumon ferox* Newstead, 1900

Perissopneumon sp.

BANGLADESH (Sylhet : Srimangal). PAKISTAN (Abbottabad).

On *Lagerstroemia* sp. and *Ziziphus mauritiana*.

P. ferox Newstead, 1900b : 250.

= *Stigmacoccus ferox* ; *Stigmacoccus (Perissopneumon) ferox*.

INDIA (Uttar Pradesh ; Maharashtra : N. Konkan ; Tamil Nadu : Devala, Cherambadi, Ambur ; Kerala : Trichur and Cochin : Nelliampathy Hills). PAKISTAN (Rawalpindi).

On *Citrus* sp., *Azadirachta indica*, *Vicia* sp., mango, etc.

P. phyllanthi (Green) ; Rao, 1950b : 114.

= *Monophlebus tamarindus* : Ayyar, 1919a : 48 ; *Monophlebus contrahens* : Green, 1922a : 431 ; *Monophlebus (Drosicha) phyllanthi* Green, 1923 : 168 ; *Drosicha phyllanthi* ; *Drosichiella phyllanthi*.

INDIA (Andhra Pradesh : Godavari Distt. : Samalkota ; Karnataka : Bangalore ; West Bengal : Calcutta ; Kerala : Malabar : Walayar Forest ; etc.). PAKISTAN (Multan and Sukkur). SRI LANKA (Kandy, Haldummulla, Matale and Wellawaya).

On shoots of *Phyllanthus* spp., *Tamarix* sp., *Croton* sp., robusta coffee, dadap (*Erythrina lithosperma*), *Gossypium* sp., *Cleistanthus* sp., *Bauhinia* sp., *Santalum* sp., *Tectona* sp. and sandalwood (*Santalum album*).

P. tamarinda (Green) ; Rao, 1950b : 114.

= *Monophlebus tamarindus* Green, 1908 : 17 ; *Drosichiella tamarindus* ; *Perissopneumon tamarindus*.

INDIA (Uttar Pradesh : Agra ; West Bengal : Calcutta ; Andhra Pradesh : Godavari Distt. ; etc.). PAKISTAN (Sind : Sukkur ; Central and Northern Regions).

On *Tamarindus indica*, *Prosopis spicigera*, *Tectona grandis*, *Ficus carica*, *Withania somnifera*, *Musa sapientum*, *Aegle marmelos*, *Populus* sp., *Grewia asiatica*, *Ziziphus nummularia*, *Citrus* spp., *Grevillea robusta* and garden crotons.

Genus Walkeriana Signoret, 1876

Type species : *Coccus floriger* Walker, 1858

W. compacta Green, 1896a : 6.

SRI LANKA (Kelani Valley etc.).

On stem of undetermined tree.

W. floriger (Walker) ; Signoret, 1876 : 391.

=*Coccus floriger* Walker, 1858 : 305 ; *C. laniger* Kirby, 1891 : 175 ;
Walkariana [sic] *floriger* (lapsus).

SRI LANKA (Pundaluoya).

On *Litsea zeylanica* and *Grevillea robusta*.

W. ovilla Green, 1922a : 448.

SRI LANKA (Hakgala : Botanic Gardens).

On *Eugenia subavenis* and *Michelia nilagirica*.

W. senex Green, 1896a : 6.

INDIA (Tamil Nadu : Ootacamund ; and Kerala : Wynad). SRI
LANKA (Chilaw, Puttalam, Haldummulla, Negombo, Galagedara
and Kandy).

On *Dodonaea viscosa*, *Citrus* sp., *Grevillea robusta*, *Punica granatum*,
Berberis lycium and on "mangrove" etc.

III. Family ORTHEZIIDAE

Genus **Orthezia** Bosc d' Antic, 1784

=*Dorthezia*, d'Orthez, 1785 ; *Dorthesia* ; *Cionops* Leach in Brewster,
1815 ; *Cyphoma* Gistel, 1848 ; *Pollyocellaria* Imhof, 1900 ;
Polyocellaria ; *Douglasia* MacGillivray, 1921 ; *Douglasiella*
MacGillivray, 1921.

Type species : *Aphis urticae* Linnaeus, 1758 (*Orthezia characias*
Bosc d' Antic, 1784).

Orthezia spp.

PAKISTAN (Rawalpindi, Gilgit : Satpara).

On *Amaranthus* sp. and *Artemisia* sp.

O. insignis Browne, 1887 : 169.

= *Orthezia nacreata* Buckton, 1894 : 103 ; *O. costis* Ghesquiere, 1950 : 32 (nom. nud.).

INDIA (Kerala : S. Wynaad ; Tamil Nadu : Nilgiris including Mudumalai Range, N. Salem : Yellopur, Yercaud, Shevaroy Hills, Salem Dist. ; Karnataka : Bangalore ; West Bengal : Kalimpong Hills, Samsing Forest ; Sikkim : Rangpo). SRI LANKA (including Peradeniya : Botanic Gardens, and Kandy).

On many species of viz. *Acalypha*, *Aralia*, *Achyranthus*, *Angelonia*, *Barleria*, *Brugmansia*, *Cestrum*, *Citrus*, *Clausena*, *Clerodendron*, *Coleus*, *Cuphea*, *Crossandra*, *Dombeya*, *Duranta*, *Eranthemum*, *Gardenia*, *Graptophyllum*, *Hamelia*, *Hibiscus*, *Holmskoldia*, *Habrothamnus*, *Ixora*, *Iresine*, *Justicia*, *Legerstroemia*, *Lantana*, *Ligustrum*, *Lobelia*, *Meyenia*, *Malpighia*, *Murraya*, *Poinsettia*, *Rivina*, *Sanchezia*, *Salvia*, *Strobilanthes*, *Stachytarpheta*, *Tecoma*, *Tabernaemontana*, *Thevetia*, *Thunbergia*, *Chromolaena*, *Coffea*, *Jacaranda*, *Parthenium* etc.

IV Family TACHARDIIDAE

Subfamily TACHARDIINAE

Genus Kerria Targioni-Tozzetti, 1884

= *Laccifer* Oken, 1815 (invalid) ; *Carteria* Signoret, 1874 (preoccupied) ; *Tachardia* Blanchard, 1886 ; *Lakshadia* Mahdihassan, 1923.

Type species : *Coccus lacca* Kerr, 1782

Kerria sp.

INDIA (Tamil Nadu : Jawalagiri ; Orissa : Bhubaneswar).

PAKISTAN (Hyderabad).

On *Annona squamosa*, *Populus euamericana*, *Albizia lebbek* and undet. plant.

K. albizziae (Green) ; Varshney, 1966b : 117.

= *Tachardia albizziae* Green, 1911 : 32 ; *Lakshadia albizziae* ; *Laccifer albizziae* ; *Kerria albizziae* (lapsus).

INDIA (U. P. : Dehra Dun : Asan ; Bihar ; West Bengal : Darjeeling). SRI LANKA (Peradeniya, Watagama, Kelani Valley, Tangalla, Anuradhapura, Kelawewa, Hambantota and Kandy).

On *Albizia*, *Amherstia*, *Croton*, *Filicium*, *Ficus*, *Hemicyclia*, *Harpullia*, *Landolphia*, *Litchi*, *Pterospermum*, *Schleichera* and *Theobroma*.

K. brancheata Varshney, 1966a : 357.

= *Kerria brancheatus* Varshney, 1966a : 357.

INDIA (Bihar : Ranchi).

On *Schleichera oleosa* and *Albizia lucida*.

K. chamberlini Varshney, 1966a : 356.

INDIA (Rajasthan : Jodhpur).

On *Ficus virens* and *Maughania macrophylla*.

K. chinensis chinensis (Mahdihassan) ; Varshney, 1966b : 117.

= *Lakshadia chinensis* Mahdihassan, 1923 : 98 ; *Laccifer chinensis* ; *Laccifer siamensis* Takahashi, 1941 : 140 ; *Laccifer longispina* Misra, 1930 : 161.

BHUTAN. BURMA. INDIA (N. E. India : Assam : Nowgong, Haflong ; Meghalaya : Garo Hills ; West Bengal : Darjeeling Dist. : Mongowa Forest). NEPAL.

On species of *Annona*, *Acacia*, *Albizia*, *Artocarpus*, *Berrya*, *Butea*, *Combretum*, *Croton*, *Caesalpinia*, *Cajanus*, *Cassia*, *Cedrela*, *Dalbergia*, *Dipterocarpus*, *Engelhardtia*, *Entada*, *Ficus*, *Garuga*, *Glochidion*, *Grewia*, *Garuga*, *Gardenia*, *Kydia*, *Leea*, *Ligustrum*, *Litchi*, *Limonia*, *Maughania*, *Mangifera*, *Protium*, *Pentacme*, *Schleichera*, *Shorea*, *Samanea*, *Terminalia*, *Xylia* and *Ziziphus*.

K. chinensis kydia (Misra) ; Varshney, 1966b : 117.

=*Laccifer kydia* Misra, 1930 : 162 ; *Kerria kydia*.

INDIA (Assam : Cachar Distt. : Silchar).

On *Kydia calycina*.

K. communis (Mahdihassan) : Varshney, 1966b : 117.

=*Lakshadia communis* Mahdihassan, 1923 : 98 ; *Laccifer communis*.

INDIA (Andhra Pradesh : Hyderabad and Kakinada ; Karnataka : Mysore, Bangalore, Lingal ; Tamil Nadu : Madras ; Kerala : Travancore ; Goa ; Maharashtra : Bombay).

On *Ficus mysorensis* and species of *Acer*, *Annona*, *Aralia*, *Acacia*, *Albizia*, *Amherstia*, *Butea*, *Commiphora*, *Casuarina*, *Catha*, *Caesalpinia*, *Cailliea*, *Cassia*, *Delonix*, *Dalbergia*, *Ficus*, *Glycine*, *Hibiscus*, *Hymenaea*, *Hematoxylon*, *Helianthus*, *Justicia*, *Jacaranda*, *Michelia*, *Montanoa*, *Mangifera*, *Pithecellobium*, *Parkia*, *Peltophorum*, *Pterocarpus*, *Putranjiva*, *Persea*, *Samanea*, *Vitis* and *Wrightia*.

K. ebrachiata (Chamberlin) ; Varshney, 1966b : 117.

=*Tachardia ebrachiata* Chamberlin, 1923 : 170 ; *Laccifer ebrachiatus* ; *Laccifer ebrachiata* ; *Laccifer (Tachardia) ebrachiata* ; *Laccifer brachiata* (lapsus).

INDIA (Karnataka : Bangalore ; Bihar : "Manbhum" Dist.).
PAKISTAN (Lahore and Rawalpindi).

On *Ficus elastica*, *Ziziphus mauritiana*, *Acacia auriculiformis* and *Albizia lebbeck*.

K. fici fici (Green) ; Varshney, 1966b : 117.

= *Tachardia fici* Green, 1903 : 97 ; *Lakshadia ficii* (lapsus) ; *Laccifer fici* ; *Laccifer (Tachardia) fici* ; *Kerria ficii* (lapsus).

INDIA (Bihar : Monghyr, Patna ; West Bengal : 24-Parganas Dist. ; M.P. : Indore ; U.P. : Allahabad ; Delhi ; J. & K. : Jammu ; Rajasthan ; Tamil Nadu : Coimbatore). PAKISTAN (Sialkot).

On *Ficus religiosa*, *F. bengalensis*, *F. carica*, *Samanea saman*, *Ziziphus mauritiana*, *Butea monosperma*, *Gironniera nitida* and *Litchi chinensis*.

K. fici jhansiensis (Misra) ; Varshney, 1966b : 117.

= *Laccifer jhansiensis* Misra, 1930 : 164 ; *Tachardia jhangensis* (lapsus) ; *Kerria jhansiensis*.

INDIA (Uttar Pradesh : Jhansi).

On *Ziziphus mauritiana*.

K. indicola (Kapur) ; Varshney, 1966b : 117.

= *Laccifer indica* Misra, 1930 : 164 (preoccupied) ; *Laccifer indicola* Kapur, 1958 : 18.

INDIA (N. India : "Jamunia").

On *Ziziphus mauritiana*.

K. lacca lacca (Kerr) ; Targioni-Tozzetti, 1884 : 410.

= *Coccus gummilaccae* Goeze, 1778 (nom. oblitum) ; *C. lacca* Kerr, 1782 : 374 ; *C. ficus* Fabricius, 1787 : 319 ; *Chermes lacca* ; *Laccifer lacca* ; *Tachardia lacca* ; *Carteria lacca* ; *Lakshadia indica* Mahdihassan, 1923 : 60 ; *Laccifer (Tachardia) lacca*.

BANGLADESH (including Dacca). BURMA. INDIA (very widely including Uttar Pradesh ; Bihar ; West Bengal ; Orissa ; Andhra Pradesh ; Tamil Nadu ; Karnataka etc.). NEPAL. PAKISTAN (Central and Northern Regions including Rawalpindi and Sialkot). SRI LANKA.

On many species of *Annona*, *Acacia*, *Albizia*, *Atylosia*, *Aleurites*, *Artocarpus*, *Butea*, *Berrya*, *Bauhinia*, *Calliandra*, *Cullistemon*, *Celtis*, *Caesalpinia*, *Cailliea*, *Cajanus*, *Cassia*, *Ceratonia*, *Careya*, *Carissa*, *Cordia*, *Castanopsis*, *Croton*, *Dolichandrone*, *Dipterocarpus*, *Dalbergia*, *Dolichos*, *Echinocarpus*, *Eriolaena*, *Erythrina*, *Entada*, *Euphoria*, *Engelhardtia*, *Ficus*, *Grewia*, *Garuga*, *Glochidion*, *Hibiscus*, *Jacaranda*, *Juniperus*, *Kydia*, *Leea*, *Lannea*, *Leucaena*, *Loranthus*, *Lagerstroemia*, *Litchi*, *Limonia*, *Mangifera*, *Mallotus*, *Maughania*, *Ougeinia*, *Pterocarpus*, *Prosopis*, *Pithecellobium*, *Peltophorum*, *Polyalthia*, *Protium*, *Rosa*, *Schleichera*, *Samanea*, *Streblus*, *Schima*, *Shorea*, *Stereospermum*, *Terminalia*, *Tamarindus*, *Tamarix*, *Tectona*, *Xylia*, *Ziziphus*, etc.

K. lacca ambigua (Misra) ; Varshney, 1966b : 117.

= *Laccifer ambigua* Misra, 1930 : 163 ; *Tachardia ambigua* ; *Kerria ambigua* ; *K. ambigna* (lapsus) ; *K. lacca ambigua* (lapsus).

INDIA (Uttar Pradesh : Guna, Jhansi).

On "Jheolia".

K. lacca mysorensis (Mahdihassan) ; Varshney, 1966b : 117.

= *Lakshadia mysorensis* Mahdihassan, 1923 : 98 ; *Laccifer mysorensis* ; *Tachardia mysorensis* ; *Kerria mysorensis* ; *Lakshdia mysorensis* (lapsus).

INDIA (Karnataka : Mysore and Bangalore).

On *Shorea talura*, *Acacia catechu*, *A. cavenia*, *A. chundra*, *A. farnesiana*, *Atylosia albicans*, *Butea monosperma*, *Cailliea cinerea*, *Diospyros melanoxylon*, *Desmodium gyrans*, *Ficus arnottiana*, *Litchi chinensis*, *Leea crispa*, *Maughania macrophylla*, *Pithecellobium dulce*, *Rhynchosia cana*, *Samanea saman* and *Ziziphus mauritiana*.

K. nagoliensis (Mahdihassan) ; Varshney, 1966b : 117.

= *Lakshadia nagoliensis* Mahdihassan, 1923 : 61 ; *Laccifer nagoliensis* ; *Tachardia nagoliensis* ; *Tachardina pagoliensis* (lapsus).

INDIA (Madhya Pradesh : Raipur and Sohagpur ; Karnataka : Bangalore).

On *Schleichera oleosa* and *Acacia farnesiana*.

K. nepalensis Varshney, 1977 : 49.

INDIA (N. Bihar : Valmiki Nagar on Indo-Nepal Border).

On *Litchi chinensis*.

K. pusana (Misra) ; Varshney, 1966b : 117.

= *Laccifer pusana* Misra, 1930 : 163 ; *Tachardia pusana*.

INDIA (Bihar : Darbhanga Dist. : Pusa).

On *Ziziphus mauritiana* and *Butea monosperma*.

K. rangoonensis (Chamberlin) ; Varshney, 1966b : 117.

= *Laccifer rangoonensis* Chamberlin, 1925 : 35 ; *Kerria rangooniensis* (lapsus).

BURMA (Rangoon). INDIA (Assam : Tocklai, Cinnamara).

On *Quisqualis* sp. and *Thea chinensis* (tea).

K. sindica (Mahdihassan) ; Varshney, 1966b : 117.

= *Lakshadia sindica* Mahdihassan, 1923 : 98 ; *Laccifer sindica* ; *Tachardia sindica*.

PAKISTAN (Sind : including Karachi and Miani near Hyderabad).

On *Acacia arabica*, *Albizia lebbeck*, *Annona squamosa* and *Ziziphus mauritiana*.

Genus **Metatachardia** Chamberlin, 1923

= *Metacardia* (lapsus).

Type species : *Tachardia conchiferata* Green, 1922

M. conchiferata (Green) ; Chamberlin, 1923 : 172.

= *Tachardia conchiferata* Green, 1922a : 407 ; *Lakshadia conchiferata* ;
Laccifer conchiferatus.

SRI LANKA (Kandy, Matale, Jaffna and Tangalla).

On *Mimosa* sp., *Annona palustris*, *Excoecaria agallocha* and *Croton lacciferus*.

Subfamily TACHARDININAE

Genus **Paratachardina** Balachowsky, 1950.

= *Tachardia* : Mahdihassan, 1923 ; *Tachardina* Cockerell, 1901 (partim).

Type species : *Carteria decorella* Maskell, 1892

P. lobata (Green) ; Varshney, 1968 : 489.

= *Tachardia minuta* : Green, 1922a : 416 ; *Tachardina lobata* Chamberlin, 1923 : 208 ; *Tachardina lobata lobata*.

INDIA (Tamil Nadu : Coimbatore ; Karnataka : Bangalore ; Andhra Pradesh : Cuddappah : Madanapalle). SRI LANKA (Kandy).

On many plants including *Fluggea leucopyrus*, *Flacourtia ramontchi* and spp. of *Annona*, *Aralia*, *Acalypha*, *Averrhoa*, *Bauhinia*, *Cryptostegia*, *Casuarina*, *Coffea*, *Celastrus*, *Citrus*, *Cestrum*, *Dodonaea*, *Erythroxylum*, *Ficus*, *Graptophyllum*, *Guazuma*, *Gymnosporia*, *Hibiscus*, *Hamelia*, *Kigella*, *Loranthus*, *Lagerstroemia*, *Mangifera*, *Mallostus*, *Michelia*, *Malpighia*, *Pongamia*, *Pyrus*, *Punica*, *Phyllanthus*, *Semecarpus*, *Spondias*, *Stereospermum*, *Spathodea*, *Securinega*, *Sesbania*, *Santalum*, *Sterculia*, *Terminalia*, *Thespesia* etc.

P. lobata var. **schmidtii** (Mahdihassan) ; Varshney, 1968 : 489.

= *Tachardina lobata* var. *Schmidtii* Mahdihassan, 1946 : 135 ;
Paratachardina lobata var. *schmidtii*.

INDIA (Karnataka : Bangalore).

On *Michelia champaca* and *Pongamia pinnata*.

P. lobata var. **walczuchii** (Mahdihassan) ; Varshney, 1968 : 489.

= *Tachardina lobata* var. *Walczuchii* Mahdihassan, 1946 : 136 :
Paratachardina lobata var. *walczuchae*.

INDIA (Karnataka : Bangalore).

On *Guazuma tomentosa*.

P. mithila Varshney, 1968 : 489.

INDIA (N. E. India : Meghalaya : Shillong).

On *Photinia notoniana* var. *macrophylla*.

P. silvestri (Mahdhassan) ; Varshney, 1968 : 489.

= *Tachardia Silvestri* Mahdihassan, 1923 : 76 ; *Tachardina silvestrii* ;
Paratachardina silvestrii.

INDIA (Karnataka : Mysore and Bangalore).

On *Ixora parviflora*, *I. coccinea*, *Filicium decipiens*, *Erythroxylum coca*,
Acalypha sp., *Aleurites moluccana*, *Securinega leucopyrus*, *Pongamia*
pinnata, *Smilax aspera*, *Hibiscus rosa-sinensis*, *Ficus benjamina*, *F.*
retusa, *Dactylicapnos sandens*, *Hamelia patens*, *Santalum altum*
and *Guazuma tomentosa*.

P. ternata (Chamberlin) ; Varshney, 1968 : 489.

= *Tachardina ternata* Chamberlin, 1923 : 208.

INDIA (Kerala : Travancore).

On *Acacia chundra*.

P. theae (Green) ; Varshney, 1968 : 489.

= *Tachardia decorella* var. *theae* Green in Green & Mann, 1907 :
348 ; *Tachardia decorella* Auct. ; *T. decorella theae* ; *Tachardina*
theae ; *Laccifer theae*.

INDIA (Sikkim : Rhenock ; Assam ; West Bengal : Darjeeling, Kalimpong and Calcutta).

On *Thea chinensis*, *Cinchona calisaya*, *Ficus retusa*, *F. religiosa*, *Gardenia florida*, *Mallotus philippinensis*, *Psidium guajava*, *Mangifera indica*, *Machilus* sp. and *Michelia longifolia*.

V Family ERIOCOCCIDAE

Genus Eriococcus Targioni-Tozzetti, 1869

= *Acanthococcus* Signoret, 1875 ; *Rhizococcus* Signoret, 1875 ; *Thekes* Maskell, 1892 ; *Anophococcus* Balachowsky, 1954.

Type species : *Coccus buxi* Fonscolombe, 1834

Eriococcus sp.

PAKISTAN (Murree Hills : Phagwari ; Abbottabad ; Swat : Behrain and Khushab ; Chikar and Ghari Dupatta).

On *Berberis ceratophylla* and *Salsola foetida*.

E. araucariae Maskell, 1879 : 218.

= *Uhleria araucariae* ; *Rhizococcus araucariae* ; *Criococcus* [sic] *araucariae* (lapsus).

INDIA (Tamil Nadu : Nilgiris ; Karnataka : Bangalore : Lalbagh Gardens). SRI LANKA (Hill Dist. : Nuwara Eliya).

On foliage of *Araucaria excelsa*, *A. cookii* and other *Araucaria* spp. and "a conifer".

E. bambusae Green, 1922a : 350.

= *Nidularia bambusae*.

SRI LANKA (Yatiantota and Udagama ; Low country Distts.).

In leaf axils of *Bambusa* sp.

E. lagerstroemiae Kuwana, 1907 : 182.

=*Nidularia lagerstroemiae* ; *Acanthococcus lagerstroemiae*.

INDIA (Tamil Nadu : Tinnevelley : Courtallum, Singalteri).

On *Dalbergia* sp. and *Anogeissus latifolia*.

E. nueriae Green, 1922a : 349.

=*Nidularia nueriae*.

SRI LANKA (Nuwara Eliya).

On the bark of an undetermined tree.

E. osbeckiae Green, 1922a : 353.

=*Nidularia osbeckiae*.

SRI LANKA (Badulla Distt. : Namunakuli Hill).

On the foliage of *Osbeckia* sp.

E. phyllanthi Ferris, 1957 : 86.

INDIA (Karnataka : Bangalore).

On *Phyllanthus umbilicus*.

E. rhodomyrti Green, 1922a : 352.

=*Nidularia rhodomyrti*.

INDIA (Maharashtra : Gokak). SRI LANKA (Nuwara Eliya, Maskeliya and Badulla).

On leaves of *Rhodomyrtus roseus* and *Anogeissus latifolia*.

E. tenuis Green, 1922a : 351.

=*Nidularia tenuis* ; *Eriococcus tenuis* (lapsus).

SRI LANKA (Pundaluoya, Peradeniya, Kotmali and Kaduganawa).

On the undersurface of the foliage of a grass.

E. transversus Green, 1922a : 351.

= *Nidularia transversus*.

INDIA. SRI LANKA (Maskeliya).

On *Arundinaria* sp. and *A. debilis* (?).

Genus Neoacanthococcus Borchsenius, 1948

Type species : *Neoacanthococcus tamaricicola* Borchsenius, 1948

N. tamaricicola Borchsenius, 1948 : 502.

PAKISTAN (Sind : Hyderabad).

On *Tamarix articulata*.

Genus Pedroniopsis Green, 1926

Type species : *Pedroniopsis beelsoni* Green, 1926

P. beelsoni Green, 1926 : 59.

INDIA (Orissa : Ganjam Distt. ; Tamil Nadu : Russelkonda).

On the bark of *Shorea robusta*.

VI. Family KERMESIDAE

Genus Kermes Boitard, 1828

= *Talla* Heyden, 1860 ; *Kermococcus* Silvestri, 1911.

Type species : *Coccus variegatus* Gmelin, 1789

Kermes sp.

PAKISTAN (Murree Hills : Ghora Gali ; Swat : Shangla).

On *Quercus* sp. and *Q. dilatata*.

K. himalayensis Green, 1909b : 10.

= *Talla himalayensis*.

INDIA (N. W. Himalayas).

On *Quercus incana*.

Genus Pseudopulvinaria Atkinson, 1889

= *Lefroyia* Green, 1908.

Type species : *Pseudopulvinaria sikkimensis* Atkinson, 1889

P. sikkimensis Atkinson, 1889 : 3.

= *Lefroyia castaneae* Green, 1908 : 21 ; *L. castaniae* (lapsus) ; *L. castanae* (lapsus) ; *L. castenea* (lapsus).

INDIA (Sikkim : Habi Mungphu ; Meghalaya : Shillong ; Assam and N. India).

On *Quercus incana*, *Castanea indica*, *C. tribuloides*, oak, chestnut, cinchona, etc.

VII. Family DACTYLOPIIDAE

Genus Dactylopius Costa, 1835

Type species : *Dactylopius coccus* Costa, 1835

Dactylopius sp.

INDIA (Orissa : Bhubaneshwar, Gopalpur and Berkuda Is.).

On *Opuntia dillenii*.

D. coccus Costa, 1835 : 15.

= *Coccus cacti* : Green, 1912b : 82.

INDIA. PAKISTAN (Sind : Hyderabad).

On cactus (*Opuntia* spp.).

D. confusus (Cockerell) ; Cockerell, 1910 : 426.

=*Coccus confusus* Cockerell, 1893e : 1043 ; *Pseudococcus confusus* ; *Coccus cacti confusus* ; *C. confusus* var. *cacti* Cockerell, 1896a : 34 ; *C. tomentosus newsteadi* Cockerell, 1898 : 675 ; *C. confusus* var. *capensis* Green, 1912b : 79 ; *Dactylopius greenii* Cockerell, 1929 : 329 ; *D. confusus newsteadi* ; *C. confusus capensis*.

PAKISTAN (Rawalpindi). SRI LANKA.

On *Opuntia dillenii* and other spp., and *Mammillaria tenius*.

D. indicus (Green) ; Green, 1912b : 79.

=*Coccus cacti* var. *ceylonicus* Green, 1896a : 7 [nom. oblitum] ; *C. indicus* Green, 1908 : 28 ; *Dactylopius* (*Coccus*) *indicus* ; *D. ceylonicus*.

INDIA (Himachal Pradesh : Kangra ; Bihar : Gaya, Patna, Monghyr ; West Bengal : Calcutta, Hoogly Distt, Burdwan Distt. ; Orissa : Puri, Khurda and Balramgudi ; Andhra Pradesh : Godavari Dist. : Mandapetta ; Tamil Nadu : Nilgiris : Kallar and Berliar near Ootacamund).

On *Opuntia monacantha*, *O. dillenii* and other spp.

D. tomentosus (Lamarck) ; Cockerell, 1902a : 454.

=*Coccus tomentosus* Lamarck, 1801 : 298 ; *Eriococcus tomentosus* ; *Coccus cacti* var. *opuntiae* Cockerell, 1896a : 35 ; *Pseudococcus tomentosus* ; *Dactylopius silvestris* : Lindinger, 1943 : 249 ; *D. cacti* : Roonwal et al., 1953 : 183.

INDIA (Central and South India : Delhi ; Maharashtra : Belgaum, Gokak ; Karnataka : Mysore ; Orissa : Puri, Balukhand ; Tamil Nadu : Tuticorin, Tinnevely Distt., Coimbatore, Madras, N. Salem : Denkanikota). SRI LANKA.

On prickly pear (*Opuntia dillenii* and other spp.) and *Nopalea cochenillifera*.

VIII. Family BEESONIIDAE

Genus **Beesonia** Green, 1926

Type species : *Beesonia dipterocarpi* Green, 1926

B. brevipes Takagi, 1987 : 30.

NEPAL (Bagmati : Langtang Valley 2100 m ; Kosi : on way from Sankranti to Sikkama 2400 m).

On *Quercus glauca* and *Q. lamellosa*.

B. dipterocarpi Green, 1926 : 55.

BURMA.

Galls on *Dipterocarpus tuberculatus*.

B. napiformis (Kuwana) ; Kawai, 1980 : 181.

=*Xylococcus napiformis* Kuwana, 1914 : 1 ; *Trichococcus napiformis* ;
Beesonia quercicola Ferris, 1950 : 5 ; *B. albohirta* Hu & Li,
1986 : 75.

NEPAL (near Kathmandu : Nagarjun 1500 m and Sundarijal 1800 m).

On *Castanopsis tribuloides* and *Lithocarpus elegans*.

IX. Family PSEUDOCOCCIDAE

Subfamily PSEUDOCOCCINAE

Tribe PHENACOCINI

Genus **Birendracoccus** Ali, 1975

Type species : *Dactylopius saccharifolii* Green, 1908

B. saccharifolii (Green) ; Ali, 1975 : 280 .

= *Dactylopius saccharifolii* Green, 1908 : 23 ; *Pseudococcus saccharifolii* ; *Pseudococcus (Dactylopius) saccharifolii* ; *Phenacoccus saccharifoli*.

INDIA (widely including Andhra Pradesh : Godavari Distt. : Samalkot ; W. Bengal ; Bihar : Pusa, Haveli, Kharagpur, Monghyr ; Uttar Pradesh : Shahjahanpur, Meerut, Aligarh, Pant Nagar ; Delhi ; Haryana : Karnal). NEPAL (Birat Nagar).

On leaves of sugarcane (*Saccharum officinarum*) and *Sorghum halepense*.

Genus Brevennia Goux, 1940

Type species : *Ripersia (Brevennia) tetrapora* Goux, 1940

B. pulverarius (Newstead) ; Miller, 1975 : 49.

= *Ripersia pulveraria* Newstead, 1892 : 145 ; *Dactylopius pulverarius* ; *Pseudococcus pulverarius* ; *Pseudococcus (Trionymus) pulverarius* ; *Heterococcus pulverarius*.

PAKISTAN (Sind : Sakrand). SRI LANKA (Pundaluoya).

On *Eragrostis cynosuroides* and other grasses.

B. rehi (Lindinger) ; Miller, 1973 : 372.

= *Ripersia sacchari* : Green, 1908 : 25 ; *R. sacchari niger* Fletcher, 1916 : 62 (nom. nud.) ; *R. sacchari oryzae* Fletcher, 1917 : 177 (preoccupied) ; *R. oryzae* ; *R. orizae* (lapsus) ; *R. rehi* Lindinger, 1943 : 152 ; *Tychea rehi* ; *Heterococcus rehi* ; *H. tuttlei* Miller & McKenzie, 1970 : 447.

BANGLADESH (Dacca, Chittagong and other Distt.). BURMA.

INDIA (widely including Bihar, West Bengal, Orissa, Andhra Pradesh, Tamil Nadu, Kerala, Karnataka, M. P., Maharashtra, etc.). NEPAL. PAKISTAN (Peshawar, Rawalpindi and Larkana : Dokri).

On leaves or leaf-sheath of paddy (*Oryza sativa*), *Sorghum vulgare*, *Leptochloa polystachya*, *Eragrotis interrupta*, *Panicum colinum*, *P. javanicum*, *P. repens*, *Fimbristylis miliacea*, *F. argentea*, *Eriochloa polystachya*, *Imperata arundinacea*, *Andropogon annulatus*, *Apluda varia*, *Cynodon dactylon*, *Ischaemum ciliare*, *Eleusine coracana*, *Cyperus pygmaeus*, *C. rotundus*, etc.

Genus Coccidohystrix Lindinger, 1943

=*Echinococcus* Balachowsky, 1936 (preoccupied); *Centroccoccus* Borchsenius, 1948.

Type species : *Echinococcus echinatus* Balachowsky, 1936

Coccidohystrix sp.

INDIA (Punjab : Hoshiarpur).

On *Withania somnifera*.

C. insolita (Green) ; De Lotto, 1970a : 2.

=*Phenacoccus insolitus* Green, 1908 : 26 ; *Tylococcus insolitus* : *Centroccoccus insolitus*.

BANGLADESH (Chittagong). INDIA (widely including Haryana : Hissar ; U.P. : Aligarh ; Bihar : Gaya, Pusa ; West Bengal ; Orissa : Bhubaneshwar and Berhampur ; Andhra Pradesh : Guntur : Ponnur ; S. Gujarat ; Goa : Chicolim ; Kerala : Malabar : Taliparamba and Shoranoor ; Tamil Nadu : Chingleput and Coimbatore Distt.). PAKISTAN (Rawalpindi, Muzaffarabad, Hyderabad, Mona, Kohala and Karachi). SRI LANKA (Peradeniya, Colombo and Jaffna).

On *Solanum melongena*, *S. hispidum*, *Cajanus indicus*, *Cyclea burmanni*, *Sida cordifolia*, gooseberry (*Physalis maxima*), *Tribulus* sp., *Triumfetta* sp., *Abutilon* sp., *A. indicum*, *Achyranthes* sp., *A. aspera*, *Datura* sp., *D. fastuosa*, *D. metel*, *Hibiscus rosasinensis*, *Aristolochia indica*, *Euphorbia pulcherrima*, *Barleria cristata*, *Chenopodium album*, *Momordica dioica*, *Ficus* sp., *Adhatoda vasica*, *Croton sparsiflorus*.

Withania somnifera, *Malachra capitata*, stored potato tubers, pigeon pea, *Dalbergia sissoo*, *Morus alba*, etc.

Genus Erioides Green, 1922

Type species : *Erioides cuneiformis* Green, 1922

E. cuneiformis Green, 1922a : 365.

SRI LANKA (Nuwara Eliya).

On upper surface of leaves of *Eugenia oligantha* and *Calophyllum* sp.

E. rimulae Green, 1922a : 366.

SRI LANKA (Nuwara Eliya, Bandarawela and Hewaheta).

In crevices of bark of *Phyllanthus* sp., *Euonymus* sp. and on stems of *Loranthus longiflorus*.

Genus Heliococcus Sulc, 1912

= *Takahashicoccus* Kanda, 1959.

Type species : *Heliococcus bohemicus* Sulc, 1912

H. singularis Avasthi & Shafee, 1982 : 306.

INDIA (Andhra Pradesh : Prakasam, Chirala).

On *Cupressus* sp.

H. summervillei Brookes, 1978 : 241.

PAKISTAN (Peshawar).

On *Saccharum officinarum*.

Genus Heterococcus Ferris, 1918

Type species : *Heterococcus arenae* Ferris, 1918

H. bambusae (Green) ; Ali, 1970 : 93.

= *Pseudococcus pulverarius bambusae* Green, 1922a : 374 ; *Trionymus pulverarius* var. *bambusae* ; *Pseudococcus* (*Trionymus*) *bambusae*.

SRI LANKA (Pundaluoya).

Concealed beneath the stipules and stems of a bamboo *Arundinaria* sp.

Genus **Naiacoccus** Green, 1919

Type species : *Naiacoccus serpentinus* Green, 1919

Naiacoccus sp.

PAKISTAN (Peshawar Valley).

On *Tamarix articulata*.

N. minor Green, 1919b : 118.

=*Naiacoccus serpentinus* var. *minor* Green, 1919 : 118 ; *N. serpentinus minor*.

PAKISTAN (Baluchistan).

On ?

N. serpentinus Green, 1919b : 117.

=*Naiacoccus serpentinus serpentinus*.

INDIA (Punjab ; Uttar Pradesh : Aligarh, Hathras and Mathura).

PAKISTAN (Punjab : Lahore).

On *Tamarix articulata*, *T. dioica*, *Casuarina equisetifolia*.

Genus **Nipaecoccus** Sulc, 1945

=*Elizabetiella* Borchsenius, 1947.

Type species : *Dactylopius nipae* Maskell, 1892

Nipaecoccus sp.

BANGLADESH (Sylhet : Srimangal). INDIA (Punjab : Nabha and Patiala ; Karnataka : Hubli ; Orissa : Khurda). PAKISTAN (Murree).

On *Citrus lemon*, *Acacia* sp., *Peristrophe bicaliculata*, jackfruit (*Artocarpus heterophyllus*) and undetermined plant.

N. viridis (Newstead) ; Ali, 1970 : 113.

= *Dactylopius viridis* Newstead, 1894a : 25 ; *D. vastator* Maskell, 1895 : 65 ; *Pseudococcus vastator* ; *P. viridis* ; *Dactylopius nipae* : Green, 1908 : 23 ; *D. perniciosus* Newstead & Willcocks, 1910 : 138 ; *Pseudococcus nipae* : Fletcher, 1919 : 289 ; *P. (Dactylopius) viridis* ; *P. filamentosus* var. *corymbatus* Green, 1922a : 379 ; *P. corrymbatus* ; *P. filamentotus*—*corymbatus* ; *Nipaecoccus vastator* ; *Trionymus sericeus* James, 1936 : 203 ; *Phenacoccus corymbatus* ; *Nipaecoccus corymbatus* ; *Pseudococcus corymbatus*.

BANGLADESH (Mymensing : Madhupur ; Sylhet : Srimangal and Rajshahi), INDIA (very widely including Tamil Nadu, Kerala, Karnataka, Andhra Pradesh, Orissa, Goa, Maharashtra, Delhi, Himachal Pradesh, Uttar Pradesh, Bihar, West Bengal and N. E. India). PAKISTAN (very widely including Rawalpindi, Peshawar Valley, Hyderabad, Lahore, Sahiwal, Hazara : Haripur, Gujranwala, Abbottabad and Central Regions). SRI LANKA (widely).

On leaves and stems of many plants including *Abelmoschus*, *Abrus*, *Artocarpus*, *Althaea*, *Acacia*, *Beaumontia*, *Breynia*, *Citrus*, cotton, *Clerodendron*, *Casuarina*, *Cucumis*, *Corchorus*, *Caesalpinia*, *Desmodium*, *Diospyros*, *Dalbergia*, *Emblica*, *Euphorbia*, *Feronia*, *Flacourtia*, *Gelonium*, *Glycosmis*, *Gossypium*, *Holarrhena*, *Helianthus*, *Hygrophila*, *Ixora*, *Ligustrum*, *Luffa*, *Morus*, *Melochia*, *Nerium*, *Opuntia*, *Phyllanthus*, *Psidium*, *Pithecellobium*, *Solanum*, *Thespesia*, *Trachelospermum*, *Thea*, *Tephrosia*, *Vitis* and *Ziziphus*.

Genus Novonilacoccus Ghosh & Ghose, 1987

Type species : *Novonilacoccus oryzae* Ghosh & Ghose, 1987

N. oryzae Ghosh & Ghose, 1987 : 39.

INDIA (West Bengal : Kalyani).

On leaves of *Oryza sativa*.

Genus Palmicultor Williams, 1963

= *Palmicola* Williams, 1960.

Type species : *Ripersia palmarum* Ehrhorn, 1916

P. palmarum (Ehrhorn) ; Williams, 1963 : 100.

= *Ripersia palmarum* Ehrhorn, 1916 : 238 ; *Palmicola palmarum*.

BANGLADESH.

On coconut and palmyra palm.

Genus **Paraputo** Laing, 1929

Type species : *Paraputo ritchiei* Laing, 1929

P. taraktogeni Rao, 1950a : 15.

INDIA (Assam : Dibrugarh).

On *Taraktogenos kurtzii*.

Genus **Pedronia** Green, 1922

Type species : *Pedronia strobilanthis* Green, 1922

P. strobilanthis Green, 1922a : 364.

= *Pedronia strobilanthis strobilanthis*.

SRI LANKA (Pedrotalagala, Nuwara Eliya).

On leaves of *Strobilanthes* sp.

P. tenuispina Green, 1922a : 364.

= *Pedronia strobilanthis* var. *tenuispina* Green, 1922a : 364 ; *P. strobilanthis tenuispina*.

SRI LANKA (Badulla : Namunakuli Hills).

On *Strobilanthes* sp.

Genus **Phenacoccus** Cockerell, 1893

= *Boisduvalia* Signoret, 1875 ; *Oudablis* Signoret, 1882 ; *Paroudablis* Cockerell, 1900 ; *Phaenacoccus* Lindinger, 1923 ; *Peukinococcus* Sulc, 1944.

Type species : *Psudococcus aceris* Signoret, 1875

Phenacoccus spp.

BANGLADESH (Chittagong). INDIA (Kashmir ; U.P. : Dehra Dun : Nalapani). PAKISTAN (Swat, Hazara and Peshawar Valley).

On *Psidium guajava*, *Annona squamosa*, *Olea cuspidata*, *Morus alba*, etc.

P. indicus (Avasthi & Shafee) ; Shafee & Avasthi, 1984 : 413.

= *Peliococcus indicus* Avasthi & Shafee, 1980a : 905.

INDIA (Karnataka : Mysore, Bangalore : Hebbal).

On *Prosopis spicigera*.

P. quarternus Green in Ayyar, 1921 : 345 (nom. nud.).

INDIA (Tamil Nadu : Coromandel Coast).

On stem of *Casuarina* sp., in the galleries of an insect borer *Indarbela*.

Genus Rastrococcus Ferris, 1954

Type species : *Phenacoccus iceryoides* Green, 1908

Rastrococcus sp.

INDIA (Bihar : Patna).

On *Mangifera indica*.

R. cappariae* Avasthi & Shafee, 1983 : 103.

INDIA (U. P. : Aligarh, Bulandshahar : Danwar ; Tamil Nadu : Coimbatore).

On *Capparis* sp., *C. sepiaria*, *Mangifera indica*, *Acacia moniliformis* and *Ceiba pentandra*.

* A synonym of *R. iceryoides* (vide Williams, 1989).

R. iceryoides (Green) ; Ferris, 1954 : 55.

= *Phenacoccus iceryoides* Green, 1908 : 26 ; *Dactylopius* (*Pseudococcus*) *obtus* Newstead, 1911 : 164 ; *Puto iceryoides* ; *Pseudococcus obtusus*.

BANGLADESH (Chittagong and Khulna). INDIA (widely including Uttar Pradesh : Malihabad, Shahjahanpur, Sitapur, Lakhimpur, Gonda, Aligarh, Bareilly ; Bihar : Pusa, Sabour ; West Bengal : Calcutta ; Orissa : Puri and Khurda ; Andhra Pradesh : Godavari Dist., : Palcole, N. Circars ; Tamil Nadu : Coimbatore, Tanjore ; Kerala : Calicut ; Maharashtra : Lona-vala, Kolhapur ; and Gujarat : Surat ; Andaman Is. : Cowri Ghat ; etc.). SRI LANKA (Kandy and Badulla).

On shoots and leaves of mango, *Citrus* spp., *Capparis* sp., *Lannea coromandelica* (= *Odina wodier*), *Boswellia* sp., *Ficus indicus*, *Tephrosia candida*, *Pithecellobium saman*, *Callicarpa lanata*, *Murraya koenigii*, *Mangifera indica*, *Hibiscus mutabilis*, *Vitex* sp., *Bignonia* sp., *Cajanus* sp., *Ziziphus mauritiana*, *Wendlandia notoniana*, *Dolichos lablab*, *Plectronia parviflora*, cotton, rain tree, sapota, other malvaceous plants, grass, shrubs and cultivated plants.

R. invadens Williams, 1986 : 696.

INDIA. PAKISTAN.

On *Mangifera indica*, *Citrus* etc.

R. mangiferae (Green) ; Ferris, 1954 : 55.

= *Pseudococcus mangiferae* Green, 1896a : 7 ; *Phenacoccus ballardi* Newstead, 1917b : 17 ; *P. mangiferae* ; *P. (Pseudococcus) mangiferae* ; *Puto mangiferae*.

INDIA (Tamil Nadu : Tinnevely Distt. : Sengelteri ; Andhra Pradesh : Vizag Distt. : Anakapalle ; Orissa ; Karnataka : S. Kanara). SRI LANKA (Pundaluoya and Bandarawela).

On leaves of mango (*Mangifera indica*), *Eugenia hemispherica* and *Echitis* sp.

R. ornatus* (Green) ; Ferris, 1954 : 55.

= *Phenacoccus ornatus* : Ayyar, 1921 : 344 (nom. nud.) ; *P. ornatus* Green, 1922a : 392.

INDIA (Tamil Nadu : Tinnevely Distt. : Courtallum, Salem : Yercaud). SRI LANKA (Haputale, Wellawaya and Haldumnulla).

On foliage of *Jasminum* sp., wild jasmine creeper and tea plant.

R. spinosus (Robinson) ; Ferris, 1954 : 55.

= *Phenacoccus spinosus* Robinson, 1918 : 145 : *Puto spinosus* ; *Puto spinosa*.

BANGLADESH (Chittagong, Patia, Rajshahi, Barisal Distt.).

INDIA (Orissa : Bhubaneswar). PAKISTAN. SRI LANKA (Peradeniya).

On *Ficus*, *Psidium*, *Citrus*, *Mangifera*, *Calophyllum* and undetermined plant.

Genus *Ripersia* Signoret, 1875

Type species : *Ripersia corynepthori* Signoret, 1875

R. cuniculorum** Green : Roonwal et al., 1953 : 183.

PAKISTAN (Punjab : Multan, Ghazighat).

On ?

R. punctatissima Green in Ayyar, 1930 : 64 (nom. nud.).

INDIA (Andhra Pradesh : Samalkot ; Tamil Nadu : Tanjore).

On the grass *Cyperus* sp.

*Williams (1939) placed it in a new genus *Lankacoccus*.

**See *Eurycoccus cuniculorum*.

R. resinophila Green, 1916 : 395.

INDIA (N.W. Himalayas : Himachal Pradesh : Kangra ; J. & K. : Kashmir ; Uttar Pradesh : Kumaon).

On *Pinus longifolia*.

Genus **Trabutina** Marchal, 1904

Type species : *Trabutina elastica* Marchal, 1904

Trabutina sp.

PAKISTAN (Sind : Hyderabad).

On *Tamarix articulata*.

Tribe PSEUDOCOCCINI

Genus **Adelosoma** Borchsenius, 1948

Type species : *Adelosoma phragmitidis* Borchsenius, 1948

A. phragmitidis Borchsenius, 1948 : 584.

INDIA (West Bengal : Calcutta : Salt Lake area). PAKISTAN (Rawalpindi, Lahore and Sahiwal).

On *Phragmites karka*, *Arundo donax* and *Saccharum bengalense*.

Genus **Cataenococcus** Ferris, 1955

Type species : *Dactylopius olivaceus* Cockerell, 1896

Cataenococcus sp.

INDIA (including Andaman Is. : Couri Ghat).

On the roots of robusta coffee and on undetermined plant.

C. theaecola (Green) ; Das & Ganguli, 1962 : 255.

= *Dactylopius theaecola* Green in Green & Mann, 1907 : 347 ;
Pseudococcus (Dactylopius) theaecola ; *P. theaecola*.

INDIA (N.E. India : Assam, and West Bengal : Darjeeling).

On the roots of tea plant.

Genus Chorizococcus McKenzie, 1960

Type species : *Chorizococcus wilkeyi* McKenzie, 1960

Chorizococcus sp.

BANGLADESH (Sylhet : Srimangal).

On *Hirosatimum* sp.

C. sorghi Williams, 1970 : 125.

INDIA (Madhya Pradesh : Gwalior).

On *Sorghum vulgare*.

Genus Crisicoccus Ferris, 1950

Type species : *Dactylopius pini* Kuwana, 1902

C. ?dischidae (Takahashi) ; Ezzat & McConnell, 1959 : 403.

= *Pseudococcus dischidae* Takahashi, 1950 : 3 ; *Crisicoccus* sp. :
 Ganguli & Ghosh, 1964 : 358.

INDIA (Tripura).

On groundnut.

Genus Dysmicoccus Ferris, 1950

= *Ferrisicoccus* Ezzat & McConnell, 1956 ; *Kaicoccus* Takahashi, 1957.

Type species : *Dactylopius brevipes* Cockerell, 1893

Dysmicoccus sp.

PAKISTAN (Rawalpindi and Karachi).

On *Cynodon dactylon*.

D. brevipes (Cockerell) ; Ferris, 1950 : 59.

= *Dactylopius brevipes* Cockerell, 1893d : 267 ; *D. bromeliae* : Cotes, 1896 : 51 ; *Pseudococcus brevipes* ; *P. crotonis* Green, 1916 : 375 ; *P. (Dactylopius) bromeliae* : Ayyar, 1921 : 343 ; *P. bromeliae* ; *P. cannae* Green, 1934 : 162 ; *P. longirostralis* James, 1936 : 207 ; *P. pseudobrevipes* Mamet, 1941 : 58 ; *Dysmicoccus pseudobrevipes*.

BANGLADESH (Sylhet, Chittagong, Barisal Distt.). INDIA (Tripura ; West Bengal ; Orissa : Baranga ; Andhra Pradesh : Hyderabad ; Karnataka : Bangalore ; Kerala : Malabar). SRI LANKA (Peradeniya).

On roots and foliage of pineapple (*Ananas comosus*), mulberry, guava, mango, pegs and pods of groundnut (*Arachis hypogea*), rhizomes of *Canna* sp., *Vitis vinifera*, *Oreodoxa regia*, *Areca catechu* and roots of *Impatiens* sp.

D. carens Williams, 1970 : 131.

INDIA (Tamil Nadu : Coimbatore). PAKISTAN (Rawalpindi, Mona, Thal : Kohat, and in desert region of Lasbela).

On *Saccharum officinarum*, *Cymbopogon* sp., *Chloris barbata*, *Sorghum nitidum*, *S. halepense*, *S. sudanense*, *Arundo donax* and *Panicum antidotale*.

D. cocotis (Maskell) ; Williams & Watson, 1988 : 57.

= *Dactylopius cocotis* Maskell, 1890 : 149 ; *Pseudococcus (Dactylopius) cocotis* ; *P. saipanensis* Siraiwa, 1933 : 6-10 ; *P. cocotis*.

INDIA (Kerala : Malabar ; and Laccadive Is.).

On coconut leaves.

D. cucurbitae Avasthi & Shafee, 1986a : 437.

INDIA (Uttar Pradesh : Aligarh).

On *Cucurbita pepo*.

D. triadus Williams, 1987 : 163.

INDIA. PAKISTAN.

On ?

D. williamsi Avasthi & Shafee, 1981 : 1.

INDIA (Bihar : Motihari).

On *Erianthus ravennae*.

Genus Eurycoccus Ferris, 1950

Type species : *Pseudococcus jessica* Hollinger, 1916

E. cuniculorum Williams, 1984 : 536.

PAKISTAN (Gharo and Ghazi Ghat).

On *Tamarix indica* in old tunnels of *Cossus* sp. ; *T. aphylla* (= *T. articulata*) in tunnels of borers ; and *Populus euphratica*.

E. tamariscus Williams, 1984 : 538.

PAKISTAN (Kalabagh and Gharo).

On *Tamarix aphylla* under bark, and *T. indica*.

Genus Farinococcus Morrison, 1922

Type species : *Farinococcus multispinosus* Morrison, 1922

F. formicarii (Green) ; Ayyar, 1926 : 453.

= *Tylococcus formicarii* Green, 1922a : 368.

SRI LANKA (Maha Illuppalama).

On *Grewia columnaria*, in the nest of an ant *Crematogaster dohrni*.

F. simplicior (Green) ; Ayyar, 1926 : 453.

= *Tylococcus simplicior* Green, 1922a : 369.

SRI LANKA (Maha Illuppalama).

On undetermined plant, in the nest of large red ant *Oecophylla smaragdina*.

Genus **Ferrisia** Fullaway, 1923

[nec *Ferrissia* Walker, 1903 (Mollusca)]

= *Ferrisiana* Takahashi, 1929 ; *Ferisia* (lapsus).

Type species : *Dactylopius virgatus* Cockerell, 1893

Ferrisia sp.

INDIA (Orissa : Bhubaneswar, Puri, Rambha, Barkuda Is., Balasore, Khurda and Talcher).

On leaves, young stems and aerial roots of *Ficus bengalensis*, *Croton* sp., *Casuarina* sp., guava etc.

F. kandyensis (Green) ; Green, 1937 : 291.

= *Pseudococcus kandyensis* Green, 1922a : 373.

SRI LANKA (Kandy).

On a small wiry grass.

F. virgata (Cockerell) ; Fullaway, 1923 : 311.

= *Dactylopius virgatus* Cockerell, 1893d : 178 ; *D. ceriferus* : Newstead, 1894a : 24 ; *D. talini* Green, 1896a : 7 ; *D. dasyliirii* : Cockerell, 1896c : 202 ; *D. setosus* Hempel, 1900 : 386 ; *Pseudococcus virgatus* ; *P. virgatus farinosus* : Fernald, 1903 : 111 ; *P. virgatus humilis* : Fernald, 1903 : 111 ; *P. virgatus* var. *madagascariensis* : Newstead, 1908a : 9 ; *P. marchali* Vayssiere, 1912 : 366 ; *P. bicaudatus* Keuchenius, 1915 : 63 ; *Ferrisiana virgata*.

BANGLADESH (Dhaka, Rajshahi, Mymensingh, Chittagong, Khulna and Sylhet). INDIA (very widely including N.E. India, West Bengal, Bihar, Uttar Pradesh, Madhya Pradesh, Orissa, Andhra Pradesh, Karnataka, Tamil Nadu, Kerala, Western Ghats, Maharashtra, Goa, etc.) MALDIVE IS. PAKISTAN (Hyderabad, Thatta, Karachi, Sahiwal). SRI LANKA (Kandy, Colombo, Puttalam, and Trincomali).

On leaves, stem and fruits of large no. of plants including *Asparagus*, *Azadirachta*, *Abelmoschus*, *Acalypha*, *Achyranthus*, *Anacardium*, *Amaranthus*, *Antigonon*, *Annona*, *Artocarpus*, *Adhatoda*, *Brassica*, *Calliandra*, *Coffea*, *Castilloa*, *Croton*, cotton, *Cajanus*, *Caesalpinia*, *Casuarina*, *Cephalandra*, *Cissia*, *Cissus*, *Codiaceum*, *Cannabis*, *Capsicum*, *Carica*, *Cynodon*, *Citrus*, *Corchorus*, *Corallocarpus*, *Daucus*, *Dalbergia*, *Desmostachya*, *Dodonaea*, *Duranta*, *Dolichos*, *Dracaena*, *Erythrina*, *Euphorbia*, *Ficus*, *Gossypium*, *Helianthus*, *Ipomoea*, *Iresine*, *Ixora*, *Jatropha*, *Lawsonia*, *Lagerstroemia*, *Luffa*, *Lantana*, *Lilium*, *Lycopersicum*, *Mangifera*, *Mimusops*, *Morus*, *Monstera*, *Musa*, *Nerium*, *Opuntia*, *Portulaca*, *Pentapetes*, *Pentstemon*, *Phoenix*, *Piper*, *Phyllanthus*, *Polyalthia*, *Polyanthus*, *Parkinsonia*, *Psidium*, *Punica*, *Rosa*, *Raphanus*, *Sagittaria*, *Spinacia*, *Spondias*, *Samanea*, *Sinidia*, *Suaeda*, *Sesbania*, *Salvadora*, *Solanum*, *Thunbergia*, tomato, *Tecoma*, *Thespesia*, *Tagetes*, *Thuja*, *Talinum*, *Thevetia*, *Tectona*, *Tinospora*, *Terminalia*, *Trigonella*, *Tephrosia*, *Vitis*, *Verbena*, *Viola* and *Ziziphus*.

Genus *Indococcus* Ali, 1968

Type species : *Indococcus pipalae* Ali, 1968

***Indococcus* sp.**

INDIA (Orissa : Khurda).

On trunk and aerial roots of *Ficus bengalensis*.

***I. pipalae* Ali, 1968a : 35.**

INDIA (Bihar : Wani near Pusa, Patna ; Orissa : Bhubaneswar).

On the aerial roots of *Ficus religiosa* and *F. bengalensis*.

Genus *Kermicus* Newstead, 1897

Type species : *Kermicus wroughtoni* Newstead, 1897

***K. wroughtoni* Newstead, 1897a : 170.**

INDIA (including Kerala : Malabar).

On undetermined plant, from the nest of an ant *Oecophylla* sp., and inside hollow bamboos.

Genus *Kiritshenkella* Borchsenius, 1948

Type species : *Kiritshenkella stataria* Borchsenius, 1948

K. sacchari* (Green) ; Williams, 1970 : 145.

= *Rhipersia sacchari* Green, 1900 : 37 ; *R. cellulosa* Hall, 1923 : 7 ;
Tychea cellulosa ; *Pseudantonina fushanensis* Borchsenius, 1958 :
 158 ; *Kiritshenkella fushanensis* ; *K. cellulosa* ; *Pseudococcus sacchari*.

BANGLADESH (Dacca and Rajshahi). BURMA. INDIA (widely including U.P. : Gorakhpur, Shahjahanpur, Narora, Aligarh ; Bihar : Patna, Dehri-on-Sone, Warisaliganj, Haveli Kharagpur, Pusa, Muzaffarpur, Motihari, Bettiah, Manjhaulia, Harinagar, Samastipur, Shahpur Maricha Farm, etc. ; Assam ; West Bengal : Calcutta ; Andhra Pradesh : Godavari Distt. : Samalkot ; Tamil Nadu : Tanjore, Coimbatore ; Kerala : Ernakulam ; Karnataka : Mysore ; Maharashtra : Poona). PAKISTAN (Hyderabad, Timurgarah, Rawalpindi, Peshawar, Multan, Lahore, Sahiwal, Thatta and Karachi).

On different parts of sugarcane (*S. officinarum*) plant, other *Saccharum* spp., *Imperata* grass, *Sorghum* spp., *Desmostachya bipinrata* and other grasses, etc.

Genus *Lachnodiopsis* Borchsenius, 1960

Type species : *Lachnodiopsis szemaoensis* Borchsenius, 1960

L. humboldtiae (Green) ; Borchsenius, 1960a : 923.

= *Lachnodius humboldtiae* Green, 1922a : 400 ; *Farmicoccus humboldtiae* , *Delococcus humboldtiae* ; *Lachnodiella humboldtiae*.

SRI LANKA (Yatiantota).

On hollow joints of young branches of *Humboldtia laurifolia* attended by ants.

*This combination presumably is a mistake (Koteja, 1988).

Genus *Maconellicoccus* Ezzat, 1958

Type species : *Phenacoccus hirsutus* Green, 1908

M. hirsutus (Green) ; Ezzat, 1958 : 380.

= *Phenacoccus hirsutus* Green, 1908 : 25 ; *P. glomeratus* Green, 1922a : 389 ; *Pseudococcus hibisci* : Hall, 1921 : 17.

BANGLADESH (Chittagong, Patia). INDIA (widely including Delhi ; Punjab : Ludhiana , U.P. : Aligarh ; Bihar : Pusa , West Bengal : Calcutta ; Orissa : Balasore, Cuttack, Bhubaneswar, Pipili, Khurda ; Andhra Pradesh : Guntur, Hyderabad, Tenali Sangam Jagarlamudi and Chittoor Distt. : Perumallapalle ; Karnataka , Tamil Nadu : Coimbatore ; Kerala : Malabar : Walayar Forest and Kollegal ; Andaman Is. : Burma Nallah). PAKISTAN (Karachi and Thatta). SRI LANKA (Peradeniya).

On leaves, young stems and tips, roots, pods and pegs of *Ficus indicus*, *F. religiosa*, *Tectona grandis* (teak), *Morus* sp., *Psidium guajava*, *Acanthus ilicifolius*, *Hibiscus esculentus*, *H. cannabinus*, *H. sabdariffa*, *H. rosa-sinensis*, *Corchorus* spp. (jute), *Boehmeria nivea*, *Erythrina variegata*, *Annona squamosa*, groundnut, *Gossypium* sp., *Punica granatum*, *Abutilon indicum*, *Vitis vinifera*, *Spondias dulcis*, *Clitoria ternatea*, *Jasminum sambac*, *Mikania cordata*, *Thespesia lampas*, *Ziziphus mauritiana* and *Cordia obliqua*.

M. perforatus* (De Lotto) ; De Lotto, 1964 : 355.

= *Spilococcus perforatus* De Lotto, 1954 : 114.

INDIA (Bihar : Pusa).

On *Euphorbia hypericifolia*.

Genus *Paracoccus* Ezzat & McConnell, 1956

Type species : *Pseudococcus burnerae* Brain, 1915

*A syn. of *M. hirsutus* (vide Williams, 1986).

P. burnerae (Brain) ; Ezzat & McConnell, 1956 : 39.

= *Pseudococcus burnerae* Brain, 1915 : 111 ; *P. simulator* James, 1933 : 434.

INDIA (Uttar Pradesh : Aligarh : University Campus).

On *Dalbergia sissoo*.

P. nellorensis Avasthi & Shafee, 1984b : 398.

INDIA (Andhra Pradesh : Nellore).

On a weed plant.

Genus **Planococcoides** Ezzat & McConnell, 1956

Type species : *Pseudococcus njalensis* Laing, 1956

P. bengalensis Ghosh & Ghose, 1988 : 604.

INDIA (West Bengal : Kalyani).

On branches of *Ficus bengalensis* and on stalks and fruits of *Mangifera indica*.

P. robustus Ezzat & McConnell, 1956 : 59.

BANGLADESH (Khulna : Assasuni). INDIA (Gujarat : Surat, Baroda ; Andhra Pradesh : Eluru, Rajahmundry, Kurnool ; Orissa : Bhubaneswar ; Bihar : Patna ; U. P. : Nainital, Haldwani ; Maharashtra : Nasik ; Kerala : Ernakulam ; and Karnataka : Kolar). PAKISTAN (Sind : Hyderabad and Karachi).

On roots and fruits of mango, *Citrus* sp., *Lannea coromandelica*, *Phoenix dactylifera*, *Albizia lebbeck*, *Erythrina* sp., *Crossandra* sp., *Ficus bengalensis*, *F. religiosa*, *Acacia arabica*, *Artocarpus heterophylla*, grape vine and *Coniza ambigua*.

Genus **Planococcus** Ferris, 1950

= *Allococcus* Ezzat & McConnell, 1956

Type species : *Dorthisia citri* Risso, 1813

Planococcus sp.

INDIA (Tripura).

On *Cassia fistula*.**P. citri** (Risso) ; Ferris, 1950 : 164.

= *Dortheesia citri* Risso, 1813 : 416 ; *Coccus citri* ; *Dactylopius citri* ; *D. destructor* Comstock, 1881 : 352 ; *D. brevispinus* Targioni Tozzetti, 1881 : 137 ; *Pseudococcus citri* ; *P. calceolariae* var. *minor* Maskell, 1897b : 322 ; *P. citri* var. *phenacocciiformis* Brain, 1915 : 116.

BANGLADESH (Chittagong). INDIA (Karnataka : Mysore, Bangalore and Coorg ; Kerala : Cochin and Quilon : Kundara, Tamil Nadu : Nilgiris : Kallar Govt. Gardens and Coimbatore). PAKISTAN (Quetta). SRI LANKA (widely in coffee growing areas).

On roots of *Coffea arabica*, cacao, citrus, cinchona, *Annona* sp., *Artocarpus* sp., *Loranthus* sp., *Erythrina* sp., *Ageratum* sp., *Vitis vinifera*, *Ipomoea* sp., *Hibiscus* sp., *Psidium* sp., *Sesbania* sp., *Parkinsonia* sp., and crotons.

P. ficus (Signoret) ; Fernald, 1903 : 101.

= *Dactylopius ficus* Signoret, 1875 : 315 ; *Coccus vitis* Niedecki, 1870 : 328 ; *Dactylopius vitis*, *Planococcus vitis* ; *Pseudococcus citrioides* Ferris, 1922 : 208.

INDIA.

On ? (fig and grape).

P. indicus Avasthi & Shafee, 1987a : 38.

INDIA (Kerala : Ernakulam ; and Tamil Nadu : Coimbatore : Botanical Garden).

On a wild plant and *Ceiba pentandra*.

P. lilacinus (Cockerell) ; Ferris, 1950 : 164.

= *Pseudococcus lilacinus* Cockerell, 1905 : 128 ; *P. tayabanus* Cockerell, 1905 : 129 ; *Dactylopius crotonis* Green, 1905 : 44 (nom. nud.) ; *D. crotonis* Green, 1911 : 35 ; *Pseudococcus crotonis* ; *Tylococcus mauritiensis* Mamet, 1939 : 579.

BANGLADESH (Chittagong and Khulna). BURMA. INDIA (West Bengal : Howrah : Shibpur ; Orissa ; Andhra Pradesh : Visakhapatnam Distt. : Alamanda ; Tamil Nadu : Coimbatore ; Karnataka : Coorg ; and Kerala : Trichur). SRI LANKA (very widely).

On roots and shoots of many plants including *Adenophyllum*, *Annona*, *Anacardium*, *Ailanthus*, *Achras*, arabica coffee, *Erythrina*, *Ficus*, *Hevea*, *Codiaeum*, *Castilleja*, *Milletia*, *Psidium*, *Punica*, *Theobroma*, *Tectona*, *Terminalia*, *Tamarindus*, *Ziziphus*, etc.

P. pacificus Cox, 1981 : 47.

BANGLADESH (very widely).

On *Artocarpus integrifolia*, *Achras sapota*, *Annona reticulata*, *A. squamosa*, *Coccoloba* sp., *Musa sapientum*, *Mangifera indica*, *Prunus domestica*, *Psidium guajava*, etc.

Genus Pseudococcus Westwood, 1840

= *Trechocorys* Curtis, 1843 ; *Cocconidia* Amyot, 1847 ; *Dactylopius* Auct. (nec Costa, 1835).

Type species : *Coccus adonidum* Geoffroy, 1762 (nec *Coccus adonidum* Linnaeus, 1758) = *Dactylopius longispinus* Targioni-Tozzetti, 1869

Pseudococcus sp.

BANGLADESH (Sylhet : Srimangal). INDIA (including Orissa : Konark, Puri, Khandagiri, Bhubaneswar, Talcher, Angul, Baripada, Rambha, Taptapani and Gopalpur-on-sea ; Maharashtra : Nasik ; and Andhra Pradesh : Hyderabad).

On *Citrus limon* and other spp., *Ficus* spp., jackfruit, *Phragmites karka*, pineapple, bamboo, rose, crotons, grape vine, guava, *Tamarindus indica*, *Acacia arabica* and on roots of *Morus* sp.

P. affinis (Maskell) ; Fernald, 1903 : 97.

— *Dactylopius affinis* Maskell, 1894 : 90 ; *Pseudococcus obscurus* Essig, 1909 : 43 ; *P. capensis* Brain, 1912 : 182 ; *P. maritimus* : Green, 1922a : 384 ; *P. malacearum* Ferris, 1950 : 185 ; *P. latipes* : Williams, 1962 : 40.

SRI LANKA (Pundaluoya).

On *Passiflora* sp. and tomato plant.

P. citriculus Green, 1922a : 377.

BANGLADESH (Rajshahi, Chittagong, Patia). SRI LANKA (Royal Botanical Garden, Peradeniya and ?Kandy).

On foliage of *Citrus aurantiaca*, *C. limon*, *Mangifera indica* and *Psidium guajava*.

P. comstocki (Kuwana) ; Fernald, 1903 : 100.

— *Dactylopius comstocki* Kuwana, 1902b : 52.

SRI LANKA (Pundaluoya).

On *Loranthus* sp., *Trema orientalis* and *Cinnamomum camphora*.

P. detorquens Green in Ayyar, 1924 : 343 (nom. nud.).

INDIA (Kerala : Malabar : Walayar Forest).

On bamboo shoots.

P. distichlii var. **indicus** Green in Ayyar, 1930 : 61 (nom. nud.).

— *Pseudococcus (Trionymus) distichlii* var. *indicus*.

INDIA (Tamil Nadu : Tanjore Delta).

On grass *Leptochloa polystachya*.

P. formiceticola (Newstead) : Fernald, 1903 : 102.

= *Dactylopius formicarius* Newstead, 1900b : 249 (preoccupied) ;
D. formiceticola Newstead, 1901b : 86.

INDIA (W. India : Konkan).

On undetermined plant, in the nest of an ant *Crematogaster* sp.

P. longispinus (Targioni-Tozzetti, ; Fernald, 1903 : 104.

= *Coccus adonidum* Linnaeus, 1767 : 740 (preoccupied) ; *Pseudococcus adonidum* ; *Dactylopius adonidum* ; *D. longispinus* Targioni-Tozzetti, 1867 : 75 ; *D. longifilis* : Comstock, 1881 : 344.

INDIA (West Bengal : Calcutta ; Andhra pradesh : Krishna Dist. ; Tamil Nadu : Coimbatore and Salem : Yercaud ; Kerala : S. Malabar and Vadanapalle ; Karnataka : Mysore and Sevaroy Hill). SRI LANKA (Pundaluoya, Peradeniya, Colombo and Kurunegalla).

On coffee, cedar, coconut, palmyra palm, cultivated ferns, *Lantana* sp., *Jasminum* sp., *Mimosa* sp., *Albizia* sp, and *Gossypium* sp.

P. monticola Green, 1922a : 378.

SRI LANKA (Hills above Maskeliya and Patipola 6000').

On the foliage of a dwarf bamboo and "elephant grass".

P. saccharicola Takahashi, 1928 : 331.

BANGLADESH (Dacca). INDIA (Tamil Nadu : Coimbatore).
PAKISTAN (Karachi).

On *Saccharum officinarum*, *Sorghum halepense* and other grasses.

P. scrobicularum (Green) ; Fernald, 1903 : 109.

= *Dactylopius scrobicularum* Green, 1896a : 8.

SRI LANKA (Pundaluoya).

On *Elaeocarpus amoenus*, concealed within small pits beneath the bases of leaves.

P. theae (Rutherford) ; Green, 1937 : 294.

= *Ripersia theae* Rutherford, 1915 : 111.

SRI LANKA (Peradeniya).

On branches of tea plant (*Thea*).

Genus Saccharicoccus Ferris, 1950

Type species : *Dactylopius sacchari* Cockerell, 1895

S. sacchari (Cockerell) ; Ferris, 1950 : 217.

= *Dactylopius sacchari* Cockerell, 1895c : 195 ; *Pseudococcus sacchari* ; *Trionymus sacchari* ; *Erium sacchari* ; *T. praegrans* James, 1936 : 200.

BANGLADESH (Barisal Distt. : Aatghar, Kuriana). **INDIA** (very widely in sugarcane areas in Haryana, Delhi, Uttar Pradesh, Bihar, West Bengal, Orissa, Andhra Pradesh, Tamil Nadu, Karnataka, Maharashtra, Madhya Pradesh, etc.). **PAKISTAN** (Rawalpindi, Peshawar Valley, Sahiwal, Gujranwala, Sargodha, Thatta, Hyderabad and Karachi). **SRI LANKA** (Polonnarawa, Gal Oya and Kantalai).

On roots, leaf sheaths and nodes of sugarcane (*S. officinarum*), other *Saccharum* spp. and *Sorghum* sp.

Genus Spilococcus Ferris, 1950

Type species : *Dactylopius gutierreziae* Cockerell, 1896

Spilococcus sp.

PAKISTAN (Peshawar).

On *Citrus acida*.

S. atriplicis (Cockerell) ; Ferris, 1953 : 466.

= *Dactylopius solani* var. *atriplicis* Cockerell, 1895b : 729 ; *Pseudococcus solani atriplicis* ; *Spilococcus eriogoni* : Ferris, 1953 : 466 ; *Pseudococcus yerbaesantae* : Ferris, 1953 : 466.

BANGLADESH (Sylhet : Srimangal).

On *Citrus limon*.

Genus *Trionymus* Berg, 1899

= *Westwoodia* Signoret, 1875 (preoccupied) ; *Signoretia* Kraatz, 1888 (preo.) ; *Bergrothia* Kraatz, 1888 (preo.) ; *Bergrothiella* Reitter, 1898 (preo.) ; *Pergandiella* Cockerell, 1899 ; *Bergrothula* Strand, 1926 ; *Pergrothula* (lapsus) ; *Pergrothula* (lapsus).

Type species : *Westwoodia perrisii* Signoret, 1875

T. ceres Williams, 1970 : 175.

INDIA (M. P. : Gwalior). PAKISTAN (Ali-Abad and Rawalpindi).

On *Sorghum vulgare*, *S. nitidum* and grass roots.

Tribe RHIZOECINI

Genus *Geococcus* Green, 1902

Type species : *Geococcus radicum* Green, 1902

G. citrinus Kuwana, 1923 : 51.

INDIA (Tamil Nadu : N. Arcot Distt. : Pallikondan, near Vellore).

On the roots of betel vine (*Piper betle*).

G. coffeae Green, 1933 : 54.

INDIA (Tamil Nadu : Coimbatore). SRI LANKA (Kandy).

On roots and tubers of sweet potato (*Ipomoea batatas*).

G. radicum Green, 1902 : 262.

SRI LANKA (Pundaluoya).

On roots of grasses and other plants.

Genus Rhizoecus Kunckel d'Herculais, 1878

=*Ripersiella* Tinsley in Cockerell, 1899 ; *Coccidella* Hambleton, 1946 ; *Morrisonella* Hambleton, 1946 ; *Neorhizoecus* Hambleton, 1946.

Type species : *Rhizoecus falcifer* Kunckel d'Herculais, 1878

R. amorphophalli Betram, 1940 : 267.

=*Ripersiella amorphophalli* ; *Rhizoecus advenus* Beardsley, 1966 : 468.

INDIA.

On ? (World host-plants : *Amorphophallus variabilis*, *Colocasia esculenta*, *Cordyline terminalis*, *Curcuma longa* and *Kaempferia galanga*).

R. cocois Williams, 1985 : 233-242.

=*Rhizoecus* sp. : Nair et al., 1980 : 245.

INDIA (Kerala : Trivandrum Distt. sandy tracts).

On roots of coconut palm (*Cocos nucifera*).

R. cynodontis Green, 1931 : 559.

=*Rhizoecus cynodontis* Green in Ayyar, 1930 : 64 (nom. nud.).

INDIA (Tamil Nadu : Coimbatore ; and Andhra Pradesh : Godavari Distt. : Samalkot).

On roots of *Cynodon dactylon*.

Genus Xenococcus Silvestri, 1924

Type species : *Xenococcus annandalei* Silvestri, 1924

X. annandalei Silvestri, 1924 : 312.

INDIA (Orissa : Berkuda Is. in Chilka Lake ; Andhra Pradesh : N. Circars ; Tamil Nadu : Madras ; and Karnataka : Mysore).

On roots of *Ficus obtusa* (in nest of ant *Acropyga acutiventris*), *F. religiosa* and coconut.

Tribe SPHAEROCOCCINI

Genus **Antonina** Signoret, 1875

=*Antonia* Signoret, 1872 (preoccupied); *Laboulbenia* Lichtenstein, 1877.

Type species : *Antonia purpurea* Signoret, 1872

A. anceps Green in Kasargode, 1914 : 136 (nom. nud.).

INDIA (Western India) (probably Poona).

In the axils, under sheathing leaves of a reed bamboo.

A. graminis (Maskell), Fernald, 1903 : 121.

=*Sphaerococcus graminis* Maskell, 1897a : 244; *Chaetococcus graminis*; *Kermicus* (*Chaetococcus*) *graminis*; *Antonina indica* Green, 1908 : 27; *Antonia indica*; *Antonina littoralis* Cockerell & Bueker, 1930 : 1.

BANGLADESH (Rajshahi). INDIA (Delhi; Aligarh; U. P. : Agra and Bihar : Pusa and Muzaffarpur; West Bengal : Calcutta; Orissa : Cuttack and Khurda; Karnataka : Bellary; and Tamil Nadu : Coimbatore; etc.). PAKISTAN (Rawalpindi, Sahiwal, Sargodha, Hangu : Kohat, Murree and Peshawar). SRI LANKA (Pundaluoya, Peradeniya and Colombo etc.).

On base of stems and rhizomes of *Cynodon dactylon*, *Bambusa* sp., *B. tulda*, other grasses, and sugarcane root.

A. maritima Green, 1922a : 396.

INDIA (Tamil Nadu : Coimbatore; and West Bengal : Howrah : Botanical Gardens). SRI LANKA (Colombo).

On roots and rhizomes of *Cyperus* sp., *Cynodon* sp. and *Panicum* sp.

A. zonata Green, 1919a : 175.

INDIA (Bihar : Muzaffarpur ; and Tamil Nadu : Coimbatore).
SRI LANKA (Pundaluoya).

In axils of smaller branches of *Teinostachyum attenuatum* and other bamboos, attended by ant *Crematogaster dohrni*.

Genus Chaetococcus Maskell, 1898

Type species : *Sphaerococcus bambusae* Maskell, 1893

Chaetococcus sp.

PAKISTAN (Baluchistan : Quetta).

On *Erianthus munja*.

C. bambusae (Maskell) ; Maskell, 1898 : 249.

=*Sphaerococcus bambusae* Maskell, 1893 : 237 ; *Kermicus bambusae* ;
Antonina (*Chaetococcus*) *bambusae* ; *Antonina bambusae*.

INDIA (Tamil Nadu : Nilgiris). SRI LANKA (Pundaluoya, Peradeniya and Colombo).

On the stem of giant bamboo *Dendrocalamus gigantea*, male bamboo *D. stricta*, and *Gigantochloa aspera*.

Genus Pseudantonina Green, 1922

Type species : *Pseudantonina bambusae* Green, 1922

P. bambusae Green, 1922a : 363.

SRI LANKA (Nuwara Eliya).

On small bamboo *Teinostachyum attenuatum*.

P. imperata Green in Ayyar, 1936 : 148 (nom. nud.).

INDIA (S. India : Anakapalle).

On grass *Imperata arundinacea*.

P. rigida Green in Ayyar, 1936 : 148 (nom. nud.).

= *Ripersia rigida* Green in Ayyar, 1930 : 64 (nom. nud.).

INDIA (Andhra Pradesh : Godavari Distt. : Samalkot).

On grass *Iseilema laxum*.

X. Family ACLERDIDAE

Genus **Aclerda** Signoret, 1874

= *Sphaerococcus* Maskell, 1892 ; *Pseudolecanium* Cockerell, 1896.

Type species : *Aclerda subterranea* Signoret, 1874

Aclerda sp.

INDIA (Orissa : Bhubaneswar and Taptapani). PAKISTAN
(Murree Hills, Balakot).

On *Arundinaria nepalensis*, *A. donax*, *Saccharum officinarum*, *Cymbopogon* sp., *Casuarina* sp.

A. distorta Green, 1909a : 290.

INDIA (West Bengal : Darjeeling Distt. : Pedong ; and Tamil Nadu : Coimbatore). SRI LANKA (Pundaluoya, Udagama and Yatiyantota).

On leaf sheaths of *Arundinaria* sp., *Bambusa* spp., *Dendrocalamus* sp. and sugarcane.

A. imperatae Green in Ayyar, 1930 : 52 (nom. nud.).

INDIA (Tamil Nadu : Tanjore).

On *Imperata arundinaceum*.

A. inermis Green in Ayyar, 1936 : 148.

= *Aclerda japonica* var. *inermis* Green in Ayyar, 1936 : 148.

INDIA (Andhra Pradesh : Godavari Distt. : Anakapalle).
PAKISTAN.

On leaf sheaths of sugarcane and other Gramineae.

A. ischaemum Green in Ayyar, 1930 : 51.

= *Aclerda ischaemi* Green in Ayyar, 1926 : 454 (nom. nud) ; *A. eschaemi* : McConnell, 1954 : 165 (lapsus).

INDIA (Tamil Nadu : Tinnevely Distt. : Sengleteri).

On *Ischaemum hirsutum*.

A. takahashii Kuwana, 1932 : 62.

= *Aclerda japonica* : Takahashi, 1930 : 36 ; *A. sacchari* : Hempel, 1932 : 332 (preoccupied) ; *A. campinensis* Hempel, 1934 : 147 ; *A. thysanolaenae* Mamet, 1943 : 125.

INDIA (Tamil Nadu : Coimbatore ; U. P. : Lucknow and Balrampur). PAKISTAN (Lahore).

On *Saccharum spontaneum* and *S. officinarum*.

A. tokionis (Cockerell) ; Fernald, 1903 : 211.

= *Sphaerococcus (Pseudolecanium) tokionis* Cockerell, 1896b : 19 ; *Pseudolecanium tokionis* ; *Aclerda japonica* Newstead, 1901b : 84.

INDIA (Tamil Nadu : Salem ; Orissa ; Bihar and other sugarcane tracts). PAKISTAN.

On nodes and leaf-sheaths of sugarcane.

XI. Family ASTEROLECANIIDAE

Subfamily ASTEROLECANIINAE

Genus Amorphococcus Green, 1902

Type species : *Amorphococcus mesuae* Green, 1902

A. mesuae Green, 1902 : 261.

SRI LANKA (Peradeniya).

On twigs of *M'sua ferrea*, forming round galls

Genus **Asterolecanium** Targioni-Tozzetti, 1868

Type species : *Coccus aureus* Boisduval, 1868 (= *Lecanium epidendri* Bouche, 1844).

Asterolecanium sp.

INDIA (Tripura : Agartala ; and West Bengal : Darjeeling).

On bamboo and tea plants.

A. ceriferum ceriferum Green, 1908 : 324.

= *Asterolecanium ceriferum* var. *ceriferum* : Russell, 1941 : 63.

SRI LANKA (Bogawantalawa and Hewaheta).

On the foliage of bamboo spp.

A. ceriferum prominens Green, 1909a : 326.

= *Asterolecanium ceriferum* var. *prominens* Green, 1909a : 326 ; *A. prominens*.

SRI LANKA (Nuwara Eliya).

On undersurface of leaves of bamboo *Oxytenanthera thwaitesii*.

A. coronatum Green, 1909a : 327.

SRI LANKA (Peradeniya).

On old stems of the 'giant bamboos' *Dendrocalamus giganteus* and *Gigantochloa aspera*.

A. epidendri (Bouche) ; Fernald, 1903 : 50.

= *Lecanium epidendri* Bouche, 1844 : 300 ; *Chermes epidendri* ; *Coccus aureus* Boisduval, 1868 : 301 ; *Asterolecanium aureum* ; *Planchonia oncidii* Cockerell, 1893f : 78 ; *Asterolecanium greeni* Marchal, 1904 : 448.

SRI LANKA (Peradeniya).

On the foliage of orchids *Ophiopogon jaburan*, *Angroecum sesquipedale*,
and *Cypripedium himalaicum*.

A. exiguum Green, 1909a : 315.

SRI LANKA (Yatiantota).

On leaves of bamboo.

A. flavociliatum Green, 1909a : 322.

SRI LANKA (Pundaluoya).

On smaller branches of *Arundinaria* sp.

A. grande (Newstead) ; Cockerell, 1896d : 328.

= *Pollinia grandis* Newstead, 1894b : 182 ; *Asterolecanium grandis*.

PAKISTAN (Baluchistan).

On 'a grass-like plant'.

A. gutta Green, 1922b : 1035.

SRI LANKA (Pattipola).

On young branches of *Calophyllum walkeri*.

A. lanceolatum Green, 1909a : Preface.

= *Planchonia miliaria* var. *longa* Green, 1896a : 5 (partim) ; *Asterolecanium lineare* Green, 1909a : 336 (preoccupied) ; *A. longum* : Ali, 1970 : 138.

SRI LANKA (Pundaluoya).

On leaves of *Arundinaria* sp.

A. longum Green, 1909a : 339.

= *Asterolecanium miliaris* var. *longum* Green, 1909a : 339 ; *A. miliaris-longum*.

INDIA (Tamil Nadu : Coimbatore). SRI LANKA (Peradeniya, Ambagomuwa and Eton).

On the foliage of *Bambusa oliveriana*, *B. arundinacea* and *Arundinaria* sp.

A. loranthi Green, 1922b : 1036.

SRI LANKA (Hakgala).

On *Loranthus neelgherrensis*.

A. minus Russell, 1941 : 132.

= *A. variolosum* Ratzeburg : Leonardi, 1920 : 250 ; *A. variolosum minor* Leonardi, 1909 : 107 ; *Asterodiaspis minus*.

PAKISTAN (Murree Hills and Behrain).

On *Quercus dilatata* and *Q. incana*.

A. minutum Takahashi, 1930 : 10.

INDIA (West Bengal : Calcutta).

On *Bambusa tulda* and *Arundinaria gloucescens*.

A. pseudomiliaris Green, 1922b : 1036.

= *Asterolecanium charmoyi* Green, 1924 : 45 ; *A. pseudomillaris* (lapsus).

INDIA (Assam ; West Bengal : Calcutta). SRI LANKA (Peradeniya).

On the foliage of *Bambusa* spp.

A. pudibundum Green, 1909a : 323.

SRI LANKA (Pundaluoya).

On smaller branches, concealed beneath leaf sheaths of *Arun-dinaria* sp.

A. pustulans (Cockerell) ; Cockerell, 1893h : 8.

=*Asterodiaspis pustulans* Cockerell, 1892 : 143 ; *Planchonia pustulans* ; *Russellaspis pustulans*.

PAKISTAN (Karachi).

On *Erythrina* sp.

A. robustum Green, 1908 : 19.

=*Asterolecanium miliaris* var. *robusta* Green, 1908 : 19 ; *A. miliaris* var. *robustum*.

BURMA. INDIA (Assam ; Bihar : Pusa ; Karnataka : Bangalore).
PAKISTAN.

On *Bambusa* spp.

A. rubrocomatum Green, 1909a : 316.

=*Asterolecanium rubrocoronatum* (lapsus).

SRI LANKA (Yatiantota).

On *Bambusa* sp.

A. tenuissimum Green, 1909a : 318.

INDIA (Kerala : Malabar : Dhoney Valley). SRI LANKA
(Udagama and Yatiantota).

On both sides of bamboo leaves.

A. thespesiae Green, 1909a : 331.

SRI LANKA (Jaffna).

On small branches of *Thespesia populnea*.

A. tumidum Green, 1909a : 330.

SRI LANKA (Udagama).

On bamboo leaves.

A. udagamae Green, 1909a : 319.

SRI LANKA (Udagama and Avisawella).

On foliage of bamboo and *Arundinaria* sp.

Genus **Bambusaspis** Cockerell, 1902

Type species : *Chermes miliaris* Boisduval, 1869

B. bambusae (Boisduval) ; Cockerell, 1902b : 114.

=*Chermes bambusae* Boisduval, 1869 : 261 ; *Planchonia bambusae* ;
Asterolecanium bambusae ; *A. bambusae* var. *bambusulae* Cockerell,
1897a : 590 ; *A. bambusae bambusulae* ; *A. (Bambusaspis) bambusae*.

'INDIA' PAKISTAN (Peshawar, Gujranwala, Lahore and Karachi). SRI LANKA (widely).

On stems and foliage of bamboo spp., *Bambusa vulgaris*, *Dendrocalamus giganteus*, *D. strictus* and *Gigantochloa aspera*.

B. delicatum (Green) ; Cockerell, 1902b : 114.

=*Planchonia delicata* Green, 1896a : 5 ; *Asterolecanium delicatum* ;
A. (Bambusaspis) delicatum.

SRI LANKA (Pundaluoya).

On undersurface of *Arundinaria* sp.

B. miliaris (Boisduval) ; Cockerell, 1902b : 114.

=*Chermes miliaris* Boisduval, 1869 : 261 ; *Asterolecanium (Bambusaspis) miliaris* ; *A. miliaris*.

PAKISTAN. SRI LANKA (Peradeniya).

On *Bambusa* spp.

B. solenophoroides (Green) ; Cockerell, 1902b : 114.

=*Planchonia solenophoroides* Green, 1896a : 6 ; *Asterolecanium solenophoroides* ; *A. (Bambusaspis) solenophoroides*.

INDIA (N. Bengal). SRI LANKA (Pundaluoya).

On undersurface of leaves of *Arundinaria* sp. and bamboo.

Genus Hsuia Ferris, 1950

Type species : *Hsuia vitrea* Ferris, 1950

Hsuia sp.

PAKISTAN (Rawalpindi and Lahore).

On *Bambusa* sp., and *Dalbergia sissoo*.

Genus Polea Green, 1922

Type species : *Pollinia ceylonica* Green, 1909

P. ceylonica (Green ; Green, 1922a : 462.

= *Pollinia ceylonica* Green, 1909a : 341.

SRI LANKA (Ramboda, Badulla Distt. : Namunakuli Forest).

On undetermined plant and leaves of *Calophyllum walkeri*.

P. minutum (Green) ; Russell, 1941 : 135 (nom. nud.).

= *Asterolecanium minutum* Green in Ayyar, 1926 : 452 (nom. nud.).

INDIA (Kerala : Malabar : Dhoney Valley).

On bamboo leaves.

XII. Family CEROCOCCIDAE

Genus Asterococcus Borchsenius, 1960

Type species : *Asterococcus schimae* Borchsenius, 1960

A. ramakrishnai Lambdin, 1983 : 304.

= *Cerococcus ramakrishnae* Green in Ayyar, 1936 : 148 (nom. nud.).

INDIA (Tamil Nadu : Coimbatore and Madras ; Maharashtra : Bombay).

On rootlets of *Ficus* sp.

Genus **Cerococcus** Comstock, 1882

= *Antecerococcus* Green, 1901 ; *Phenacobryum* Cockerell, 1902 ;
Amelococcus Marchal, 1904 ; *Cercococcus* Scott, 1907 ; *Coricoccus*
 Mahdihassan, 1933.

Type species : *Cerococcus quercus* Comstock, 1882

Cerococcus sp.

INDIA (Uttar Pradesh : Aligarh).

On *Hibiscus rosasinensis*.

C. albospicatus Green, 1909a : 308.

SRI LANKA (Nuwara Eliya).

On the bark of *Symplocos obtusa*.

C. bryoides (Maskell) ; Green, 1908 : 41.

= *Planchonia bryoides* Maskell, 1894 : 84 ; *Asterolecanium bryoides* ;
Phenacobryum bryoides ; *Antecerococcus bryoides*.

INDIA (Tamil Nadu : Madras).

On *Hibiscus rosa-sinensis*.

C. ficoides Green, 1899b : 225.

INDIA (West Bengal : Duars, and Assam).

On tea plant.

C. indicus (Maskell) ; Green, 1910 : 5.

= *Eriococcus paradoxus* var. *indicus* Maskell, 1897b : 318 ; *E. paradoxus indicus* ; *Cerococcus hibisci* Green, 1908 : 19 ; *Cerococcus hibisci* (lapsus) ; *Phenacobryum indicum* ; *E. paradoxa* var. *indica*.

BANGLADESH (Chittagong and Rajshahi). BURMA (Myingyan).

INDIA (Uttar Pradesh : Aligarh, Lucknow, Saharanpur, Dehra Dun, Lansdowne, Laldhang ; Bihar : Pusa ; West Bengal : Burdwan, Barrackpur, Kalyani ; Orissa : Cuttack, Bhubaneswar ;

Tripura ; Andhra Pradesh : Hyderabad : Lallaguda ; Maharashtra : Bombay ; Karnataka : Bangalore ; etc.). PAKISTAN (Karachi, Hyderabad, Lahore, Sialkot, Peshawar). SRI LANKA (Peradeniya).

On *Hibiscus* spp., *Gossypium* spp., mesta jute, *Tephrosia candida*, *Coffea arabica*, *Solanum melongena*, *Helecteres isora*, *Thespesia populnea*, etc.

C. ornatus Green, 1909a : 306.

= *Coricoccus ornatus*.

INDIA (Tamil Nadu : Bodinaickanur). SRI LANKA (Pundaluoya and Kayts Is.).

On stems of *Coffea arabica*, *Carissa* sp. and wild plants.

C. roseus Green, 1909a : 310.

SRI LANKA (Trincomali).

On undetermined tree.

XIII. Family LECANODIASPIDIDAE

Genus Anomalococcus Green, 1902

Type species : *Anomalococcus crematogastris* Green, 1902

A. crematogastris Green, 1902 : 261. (n. emend.)

= *A. cremastogastris* Green, 1902 : 261.

SRI LANKA (Peradeniya, Maha Illupalama, Trincomali and Mahimale).

On stems of *Ficus* sp., *F. religiosa*, *Trema orientalis*, *Feronia elephantum* (wood-apple) ; within nests of an ant *Crematogaster dohrni*.

A. indicus Ayyar (nec Green), 1930 : 52, pl. XIX.

= *Anomalococcus indicus* Green in Ayyar, 1919b : 627 (nom. nud.) ;
A. hirsutus Green in Ayyar, 1924 : 344 (nom. nud.).

INDIA (Orissa : Bhubaneswar ; Karnataka : Bangalore ; and
Tamil Nadu : Coimbatore and Tinnevely : Sengleter).)

On babul (*Acacia arabica*), *A. leucophloea*, *Streblus asper* and a wild
tree.

Genus **Cosmococcus** Borchsenius, 1959

Type species : *Cosmococcus erythrinae* Borchsenius, 1959

C. erythrinae Borchsenius, 1959 : 845.

INDIA.

On ?

C. mimusopis (Green) ; Lambdin & Kosztarab, 1973 : 53.

= *Lecanodiaspis mimusopis* Green, 1922b : 1034 ; *Lecanodiaspis*
mimusopis.

SRI LANKA (Hambantota).

On bark of *Mimusopis hexandra*.

Genus **Lecanodiaspis** Targioni-Tozzetti, 1869

= *Lecanodiaspis* (lapsus).

Type species : *Lecanodiaspis sardoa* Targioni-Tozzetti, 1869

L. malaboda Green, 1909a : 300.

= *Lecanodiaspis malaboda* Green, 1909a : 300 ; *Lecanodiaspis*
malaboda (lapsus).

SRI LANKA (Pundaluoya and Watawela).

On branches of 'malaboda' *Myristica laurifolia* and *Bocagea*
obliqua.

Genus *Stictacanthus* Lambdin & Kosztarab, 1973

Type species : *Lecanodiaspis azadirachtae* Green, 1909

S. *azadirachtae* (Green) ; Lambdin & Kosztarab, 1973 : 85.

= *Lecanodiaspis azadirachtae* Green, 1909a : 298 ; *Pulvinaria azadirachtae* ; *Prosopophora azadirachtae* ; *Lecanodiaspis azadirachtae*.

INDIA (South India ; and U. P. : Dehra Dun : Raipur). SRI LANKA (Jaffna).

On the bark of *Azadirachta indica*.

XIV Family COCCIDAE

Subfamily CEROPLASTINAE

Genus *Ceroplastes* Gray, 1828

= *Columnnea* Targioni-Tozzetti, 1866 ; *Lacca* Signoret, 1869 ; *Gascardia** Targioni-Tozzetti, 1893 ; *Ceroplastidia* Cockerell, 1910 ; *Ceroplastina* Cockerell, 1910 ; *Baccacoccus* Brain, 1920 ; *Cerostegia* De Lotto, 1969.

Type species : *Coccus (Ceroplastes) janeirensis* Gray, 1828

***Ceroplastes* sp.**

= *Gascardia* sp.

BANGLADESH (Chittagong : University campus and Patia ; Barisal Distt. ; Khulna : Kaliganj). INDIA (Delhi ; Tripura : Agartala ; Orissa : Balasore, Talcher, Angul, Khurda, Nandan Kanan, Khandagiri and Berhampur).

On *Psidium guajava*, *Cocos nucifera*, *Prunus domestica*, *P. granatum*, *Artocarpus integrifolia*, *Anacardium* sp., edible fig (*Ficus glomerata*) and mango.

*Record of "*Gascardia destructor* (Newstead)" from India, by Avasthi & Shafee, 1986b : 335, is erroneous. In the source paper this species is from Africa.

C. actiniformis Green, 1896a : 8.

INDIA (widely including U.P. : Dehra Dun ; Bihar : Pusa ; West Bengal : Calcutta ; Orissa : Cuttack, Bhubaneswar ; Andhra Pradesh : Godavari Distt. : Samalkot, Anantpur Distt. : Penukonda ; Tamil Nadu : Madras, Coimbatore, Nilgiris : Kallar, N. Salem : Aiyur, Denkanikota, Jawalagiri ; Kerala : Malabar, Trivandrum ; Karnataka : Fraserpet ; Goa : Madgao ; Maharashtra : Poona ; and S. Gujarat). PAKISTAN (Thatta, Murree, Hyderabad, Karachi, Peshawar Valley, Rawalpindi, Muzaffarabad). SRI LANKA (Pundaluoya, Kandy and Colombo).

On the leaves of coconut palm, other palms, and foliage of *Canna* sp., *Sapium sebiferum*, *Calophyllum cyanophyllum*, *Ficus* sp., *F. carica*, *F. religiosa*, *F. palmata*, sugarcane, mango, guava, grape vine, species of *Loranthus*, *Hibiscus*, *Thevetia*, *Tinospora*, and *Alstonia scholaris*, betel nut (*Areca catechu*), *Dodonaea viscosa*, *Terminalia catappa*, *Trachelospermum lucidum*, *Santalum album*, *Acacia* sp., *Carissa spinarum*, *Cannabis sativa*, *Chenopodium album*, *Dicliptera roxburghiana*, *Ipomoea carnea*, *Populus euamericana*, *Cordia obliqua*, *Thespesia populnea*, *Erythrina* sp., etc.

C. ajmerensis (Avasthi & Shafee) ; **comb. nov.**

= *Cerostegia ajmerensis* Avasthi & Shafee, 1979 : 36.

INDIA (Rajasthan : Ajmer : Hathi Bhata).

On *Cassia fistula*.

C. alami Avasthi & Shafee, 1986b : 328.

INDIA (U.P. : Aligarh ; Tamil Nadu : Coimbatore : Mettupalaiyam).

On *Dalbergia sissoo* and a wild plant.

C. ceriferus (Fabricius) ; Walker, 1852 : 1087.

= *Coccus ceriferus* Fabricius, 1798 : 546, *nec* Anderson, 1791 ; *C. (Ceroplastes) chilensis* Gray, 1828 : 7 ; *Ceroplastes australiae* Walker, 1852 : 1087 ; *Columnea cerifera* Targioni-Tozzetti, 1866 : 144 ; *Lacca alba* Signoret, 1869 : 848 ; *Ceroplastes cerifera* ; Gas-

cardia cerifera ; *Ceroplastes pseudoceriferus* : Kawai & Tamaki, 1967 : 133, *nec* Green, 1935.

INDIA (very widely including Himachal Pradesh : Kangra Valley, Kalka ; Uttar Pradesh : Dehra Dun ; Madhya Pradesh ; Maharashtra : Bombay ; Bihar : Ranchi ; West Bengal : Darjeeling ; Assam ; Tamil Nadu : Madras, Tanjore, Coimbatore ; etc.). SRI LANKA (very widely).

On *Celastrus ceriferus*, *Asclepiadron* sp., *Lawsonia inermis*, *Terminalia* spp., *Buchanania* sp., *Citrus* spp., *Thea chinensis*, *Casuarina* sp., *Bowsellia* sp., *Carissa spinarium*, *Morus indica*, *Ficus* spp., *Antigonon* sp., *Pouzolzia* sp., mango, "arjun", mulberry, Indian elm, etc.

C. floridensis Comstock, 1881 : 331.

=*Ceroplastes rusci* : Ashmead, 1880 : 252, *nec* Linneaus, 1758 ; *C. vinsonii* Signoret, 1872 : 38 ; *Cerostegia floridensis*.

INDIA (Uttar Pradesh : Dehra Dun, Aligarh ; Bihar : Pusa ; West Bengal : Burdwan, Howrah, Darjeeling ; Assam ; Orissa : Puri Distt. ; Karnataka : Bangalore ; Tamil Nadu : Tinnevelley ; Kerala : Travancore). PAKISTAN (Central and Southern Regions : Mirpur Khas, Thatta, Karachi, Hyderabad, Rawalpindi, Sialkot and Swat : Mingora). SRI LANKA (widely).

On tender shoots and leaves of *Abelmoschus esculentus*, *Annona squamosa*, *Anacardium occidentale*, *Cyamopsis psoralioides*, *Citrus* spp., *Camellia sinensis*, *Casuarina* sp., *Carissa opaca*, *Syzygium cumini*, *Eriobotrya japonica*, *Ficus infectoria*, *F. carica*, *F. glomerata*, *Ixora* sp., *I. coccinea*, *Mangifera indica*, *Michelia* sp., *Nerium indicum*, *Psidium guajava*, *Schinus molle*, *Tamarix gallica*, and *T. dioica*, etc.

C. pseudoceriferus Green, 1935 : 180.

=*Ceroplastes ceriferus* Anderson : Auct. ; *C. ceriferi*.

BANGLADESH (Rajshahi). INDIA (Uttar Pradesh : Dehra Dun, Mussoorie, Varanasi, Gonda, Ghaziabad ; Delhi ; Bihar : Motihari, Bodhgaya ; Orissa : Bhubaneswar, Baripada, Jatni and Talcher). SRI LANKA (Jaffna).

On *Azadirachta indica*, *Diospyros montana*, *Artocarpus heterophyllus*, *Ficus bengalensis*, *F. glomerata*, *F. religiosa*, *Holoptelea integrifolia*, *Psidium guajava*, *Madhuca indica*, *M. longifolia*, *Croton* sp., *Mangifera indica*, *Mimusops hexandra*, *Terminalia chebula*, etc.

C. rubens Maskell, 1893 : 214.

=*Ceroplastas rubens* var. *minor* Maskell, 1897b : 309 ; *C. myricae* : Green, 1900 : 8.

BURMA. INDIA (widely including Tamil Nadu : Coimbatore and Chicacole ; Kerala : Palghat ; Andhra Pradesh : Cacanada ; Orissa : Khurda and Dhauli ; Assam : plains near Brahmaputra river). SRI LANKA (Batticaloa and lower montane zone).

On foliage of palms, *Cycas revoluta*, mango, *Calophyllum* sp., *Artocarpus* spp., tea plant, *Citrus* spp., guava, cashewnut, cinnamon, avocado pear, *Garcinia spicata*, *Calophyllum tomentosum*, *Psychotria* sp., *Eugenia* sp., etc.

C. rusci (Linnaeus) ; Signoret, 1872 : 35.

=*Coccus rusci* Linnaeus, 1758 : 456 ; *Ceroplastes nerii* Newstead, 1897b : 101 ; *Coccus caricae* Bernard, 1773 : 89 ; *Ceroplastes denu-datus* Cockerell, 1893d : 82.

INDIA (Uttar Pradesh : Dehra Dun).

On ?

Genus Vinsonia Signoret, 1872

=*Visonia* (lapsus).

Type species : *Vinsonia pulchella* Signoret, 1872 (= *Coccus stellifer* Westwood, 1871)

V. stellifera (Westwood) ; Douglas, 1888 : 152.

=*Coccus stellifer* Westwood, 1871 : iii ; *Vinsonia pulchella* Signoret, 1872 : 34.

INDIA (West Bengal : Darjeeling and Calcutta ; Orissa : Bhubaneswar, Puri, Ganjam Distt. ; Andhra Pradesh : Godavari Distt. ; Tamil Nadu : Tirnevelly and Coimbatore ; Kerala : Malabar ;

Karnataka : Palni Hills ; and Maharashtra : Bombay). PAKISTAN (Karachi and Thatta). SRI LANKA (widely).

On foliage of coconut palm (*Cocos nucifera*), *Mangifera indica*, *Eugenia jambos*, nutmeg, *Garcinia indica*, *G. spicata*, *Citrus aurantium*, *Antidesma bunius*, *Alstonia scholaris*, *Glycomis pentaphylla*, *Ixora* sp., *Syzygium cumini*, *Phoenix dactylifera*, etc.

Subfamily COCCINAE

Tribe COCCINI

Genus Akermes Cockerell, 1902

Type species : *Akermes bruneri* Cockerell, 1902

A. montanus (Green) ; Sanders, 1909 : 46.

=*Lecanium montanum* Green, 1908 : 30 ; *Akermes montanum* ; *L. (Akermes) montanus*.

INDIA (Himalayas : Himachal Pradesh : Janusai).

On an undetermined shrub.

Genus Ceronema Maskell, 1895

Type species : *Ceronema banksiae* Maskell, 1895

C. fryeri Green, 1922b : 1028.

SRI LANKA (Maha Illuppalama).

On an undetermined shrub.

C. iceryoides Green, 1922b : 1029.

SRI LANKA (Puttalam).

On an undetermined plant.

C. koebeli Green, 1909a : 256.

=*Ceronema koebelei*.

INDIA (Tamil Nadu : Coimbatore). SRI LANKA (Kandy and Peradeniya).

On branches of *Sapium sebiferum*, *Pithecellobium saman* and *Caesalpinia coriaria*.

Genus *Coccus* Linnaeus, 1758

=*Calymmata* Costa, 1828 ; *Calypticus* Costa, 1835 ; *Calymmatulus* (lapsus) ; *Calymnatus* (lapsus) ; *Lecanium* Burmeister, 1835.

Type species : *Coccus hesperidum* Linnaeus, 1758

Coccus spp.

BANGLADESH (Sylhet : Srimangal, Chittagong : Patia, and Barisal Distt.). INDIA (Andhra Pradesh : Guntur ; Karnataka : Tumkur ; Uttar Pradesh : Aligarh, Agra ; Tripura : Agartala : Sekarkoti ; Orissa : Barkuda Is., Barkul, Balasore, Talcher, Khurda Road, Puri, Gopalpur, Bhubaneswar, Nandan Kanan, etc.). PAKISTAN (Sind : Karachi).

On *Acacia indica*, *Mangifera indica*, *Psidium guajava*, cashew-nut (*Anacardium occidentale*), *Ficus* spp., *Dalbergia sissoo*, *Melastoma malabathricum*, bel (*Aegle* sp.), plantain (*Musa sapientum*), *Cinnamomum zeylanicum*, *Codiaeum variegatum*, *Citrus* sp., croton, *Nerium* sp., *Artocarpus* sp., *Erythrina* sp., etc.

C. acutissimus (Green) ; Fernald, 1903 : 168.

=*Lecanium acutissimum* Green, 1896a : 10.

INDIA (Tamil Nadu : Coimbatore ; Kerala : Malabar), SRI LANKA (widely including Kandy and Colombo).

On *Cocos nucifera*, *Areca catechu*, *A. triandra*, *Cycas* sp., *Piper nigrum*, *Litchi chinensis*, *Mangifera indica*, *Litsea zeylanica*, *Musa paradisiaca*, *Artocarpus* sp., etc.

C. adersi (Newstead) ; Ali, 1971 : 21.

=*Lecanium adersi* Newstead, 1917a : 357.

INDIA (Tamil Nadu : Coimbatore).

On mango.

C. almoraensis Avasthi & Shafee, 1984a : 389.

INDIA (Uttar Pradesh : Almora ; Bihar : Arrah).

On wild undetermined plant and *Mangifera indica*.

C. antidesmae (Green) ; Fernald, 1903 : 168.

= *Lecanium antidesmae* Green, 1896a : 10.

SRI LANKA (Pudaluoya and Kandy).

On foliage of *Antidesma bunius*.

C. arundinariae (Green) ; Green, 1904b : 248.

= *Lecanium arundinariae* Green, 1904b : 220.

SRI LANKA (Pundaluoya).

On *Arundinaria* sp.

C. capparidis (Green) ; Green, 1904b : 248.

= *Lecanium capparidis* Green, 1904b : 214 ; *L. (Coccus) capparidis* ;
C. arens Hodgson, 1968 : 114-120.

SRI LANKA (Pundaluoya).

On *Capparis moonii*.

C. caudatus* (Green) ; Fernald, 1903 : 168.

= *Lecanium caudatum* Green, 1896a : 10.

SRI LANKA (Pundaluoya and Kandy).

On upper surface of leaves of *Passiflora* sp., *Coffea arabica*, *Loranthus* sp., *Memecylon umbellatum*, *Pavetta* sp. and *Pergularia odoratissima*.

*Tao et al. (1983) treat it as a syn. of *Saissetia nigra*.

C. desolatum (Green) ; Ali, 1971 : 23.

= *Lecanium desolatum* Green, 1922b : 1020.

SRI LANKA (Peradeniya).

On leaves of *Ficus gibbosa*.

C. discrepans (Green) ; Morrison, 1921 : 654.

= *Lecanium similans* Green in Watt & Mann, 1903 : 314 (nom. nud.) ; *L. discrepans* Green, 1904b : 204 ; *Saissetia discrepans* ; *L. (Coccus) discrepans*.

INDIA (Bihar : Pusa ; Assam : Gauhati and Tocklai ; Andhra Pradesh : Godavari Distt. ; and Kerala : Travancore). PAKISTAN (Central Region). SRI LANKA (Pundaluoya, Yatiyantota and Passara).

On tea plant, banana, mango, *Citrus* sp., *Ziziphus mauritiana*, *Bauhinia* sp., *Bignonia radicans*, *Dalbergia sissoo*, *Syzygium cumini*, *Ficus carica*, *F. religiosa*, *Morus alba*, *Salmalia malabarica*, *Vitis vinifera*, etc.

C. fusiforme (Green) ; Ali, 1971 : 24.

= *Lecanium fusiforme* Green, 1922b : 1020.

SRI LANKA (Ambalangoda).

On the foliage of an undetermined shrub.

C. gymnospori (Green) ; Sanders, 1909 : 45.

= *Lecanium gymnospori* Green, 1908 : 29.

INDIA (Maharashtra : Poona ; Andhra Pradesh : Guntur Distt. : Narasaraopet).

On *Gymnosporia montana*.

C. hesperidum Linnaeus, 1758 : 455.

= *Chermes hesperidum* ; *Calymnatus hesperidum* ; *Calypticus hesperidum* ; *C. laevis* Costa, 1835 : 11 ; *Lecanium hesperidum* ; *Coccus patellaeformis* Curtis, 1843 : 517 ; *Chermes lauri* Boisduval, 1867

: 340 ; *Lecanium angustatum* Signoret, 1873 : 398 ; *L. maculatum* Signoret, 1873 : 400 ; *L. alienum* Douglas, 1886 : 77 ; *L. depressum* var. *simulans* Douglas, 1887 : 28 (nom. nud.) ; *Chermes aurantii* : Targioni-Tozzetti, 1891 : 10 ; *L. minimum* Newstead, 1892 : 141 ; *L. assimile* var. *amaryllis* Cockerell, 1893c : 53 ; *L. terminaliae* Cockerell, 1893b : 254 ; *Coccus (Lecanium) hesperidum* ; *L. ceratoniae* Gennadius, 1895 : cclxxvii ; *L. nanum* Cockerell, 1896b : 19 ; *L. flaveolum* Cockerell, 1897b : 52 ; *L. minimum* var. *pinicola* Maskell, 1897b : 310 ; *L. ventrale* Ehrhorn, 1898 : 245 ; *L. (Calymnatus) hesperidum pacificum* Kuwana, 1902a : 30 ; *L. hesperidum* var. *minimum* ; *Coccus minimus* ; *L. signiferum* Green, 1904b : 197 ; *L. punctuliferum* Green, 1904b : 205 , *L. (Coccus) hesperidum* ; *C. punctuliferum* ; *L. mauritiense* Mamet, 1936 : 96 ; *L. (Coccus) signiferum* ; *C. mauritiensis* ; *C. signiferum*.

BANGLADESH (Chittagong : University and Patia). BURMA (Myitkyina). INDIA (widely including Jammu & Kashmir, Bihar, Assam, Tripura, West Bengal, Orissa, Andhra Pradesh, Kerala, Karnataka, Goa, and Gujarat). PAKISTAN (Karachi, Thatta, Mirpur khas, Hyderabad, Peshawar, Gujranwala, Lahore, Sahiwal, Swat : Otrora and Mingora). SRI LANKA (Pundaluoya and Peradeniya).

On many plants including *Areca* (areca-nut), *Alpinia*, *Artocarpus*, *Amaranthus*, *Begonia*, *Capsicum*, *Camellia*, *Citrus*, *Caryota*, *Carica*, *Croton*, *Diospyros*, *Dalbergia*, *Eugenia*, *Ficus*, *Ixora*, *Iresine*, *Korthalsella*, *Lonicera*, *Mangifera* (mango), *Musa*, *Michelia*, *Psidium*, *Vinca*, *Tabernaemontana*, *Hibiscus*, *Lycopercicum*, *Ziziphus*, *Morus*, *Rubus*, cashew nut, tea, ivy, palms, coconut, redgram, tuberoze, etc.

C. illuppalamae (Green) ; Ali, 1971 : 25.

= *Lecanium illuppalamae* Green, 1922b : 1021.

SRI LANKA (Maha Illuppalama).

On twigs of an undetermined plant.

C. ixorae (Green) ; Ali, 1971 : 26.

= *Lecanium ixorae* Green, 1922b : 1022.

SRI LANKA (Henerat goda).

On *Ixora coccinea*.

C. kosztarabi Avasthi & Shafee, 1984a : 389.

INDIA (Karnataka :Tumkur).

On *Mangifera indica*.

C. latioperculatum (Green) ; Ali, 1971 : 26.

=*Lecanium latioperculatum* Green, 1922b : 1022 ; *L. latioperculum* (lapsus).

INDIA (Tamil Nadu : Coimbatore). SRI LANKA (Peradeniya and Batticaloa).

On smaller branches of mango, *Anacardium occidentale* and an undetermined wild shrub.

C. litseae (Rutherford) ; Ali, 1971 : 26.

=*Lecanium litseae* Rutherford, 1915 : 111 ; *L. (Coccus) litseae*.

SRI LANKA (Peradeniya).

On *Litsea longifolia*.

C. longulus (Douglas) ; Fernald, 1903 : 171.

=*Lecanium longulum* Douglas, 1887 : 97 ; *L. elongatum* Auct., nec Signoret, 1873 ; *L. chirimoliae* Maskell, 1890 : 137 ; *L. ficus* Maskell, 1897a : 243 ; *L. frontale* Green, 1904b : 192 ; *Coccus frontale* ; *L. wistariae* Brain, 1920 : 8 ; *L. (Coccus) celtium* Kuwana, 1909 : 162 ; *Coccus elongatum* ; *L. kraunhiarum* Lindinger, 1928 : 107 ; *Parthenolecanium wistaricola* Borchsenius, 1957 : 349 ; *L. (Coccus) longulum* ; *L. (C.) frontale*.

INDIA (Assam : Sonari ; Orissa : Bhubaneswar, and Rambha ; Andhra Pradesh : Godavari Distt. ; Karnataka : Bangalore). SRI LANKA (Pundaluoya).

On grape vine (*Vitis* sp.), red gram (*Cajanus cajan*), *Excoecaria agallocha*, orange, *Calophyllum* sp., *Albizia* sp., *Acacia dealbata*, *Grevillea robusta*, *Loranthus longiflorus*, *Annona cherimolia*, mango etc.

C. mercarae (Green) ; Varshney, 1985a : 26. (nomen nudum).

= *Lecanium mercarae* Green in Ayyar, 1919a : 36. (nomen nudum).

INDIA (Karnataka : Coorg : Mercara).

On coffee.

C. ophiorrhizae (Green) ; Fernald, 1903 : 173.

= *Lecanium ophiorrhizae* Green, 1896a : 10.

INDIA (Andhra Pradesh : Kurnool). SRI LANKA (Pundaluoya).

On foliage of *Ophiorrhiza pectinata* and *Diospyros chloroxylon*.

C. piperis piperis (Green) ; Fernald, 1903 : 173.

= *Lecanium piperis* Green, 1896a : 10 ; *Coccus piperis*.

SRI LANKA (Pundaluoya).

On upper surface of a wild pepper (*Piper* sp.) and *Psychotria* sp.

C. piperis namnakuli (Green) ; Ali, 1971 : 27.

= *Lecanium piperis-namnakuli* Green, 1922b : 1024 ; *L. piperis* var. *namnakuli* ; *Coccus namnakuli*.

SRI LANKA (Badulla Distt. : Namnakuli Hill).

On *Piper* sp.

C. ramakrishnae (Ayyar) ; Varshney, 1985a : 26.

= *Lecanium ramakrishnae* Green in Ayyar, 1919a : 35 (nomen nudum) ; *L. ramakrishnae* Ayyar, 1930 : 47 (nec Green) ; *Coccus ramakrishnai*.

INDIA (Andhra Pradesh : Godavari Distt. : Kothapetta ; Himachal Pradesh : Kulu Valley).

On distal shoots of *Ficus bengalensis* and the pear plant.

C. viridis (Green) ; Fernald, 1903 : 174.

= *Lecanium viride* Green, 1886 : 1 ; *L. viridis* ; *L. (Trechocoris)*

hesperidum africanum Newstead, 1906 : 73 ; *L. viride* var. *africanum* ; *L. (Coccus) viridis* ; *L. (C.) viride*.

BANGLADESH (Chittagong). BURMA. INDIA (Assam : Tocklai ; Tripura : Agartala ; Orissa : Rambha ; Karnataka : Bangalore, Mysore, Coorg, Shevaroy ; Tamil Nadu : Nilgiris, Pulneys and Anaimalai Hills ; Kerala : N. Malabar). PAKISTAN (Abbottabad). SRI LANKA (Matale Distt.).

On undersurface of leaves, branches and developing fruits of arabica coffee, tea, *Citrus* spp., *Aegle* sp., *Carissa* sp., *C. opaca*, guava, *Plumiera acutifolia*, *Cinchona succirubra*, *Manihot ceara*, *M. para*, *M. utilissima*, *Gardenia* sp., *Ixora* sp., *Maesa indica*, *Antidesma bunius*, *Hiptage madablota*, *Callicarpa lanata*, *Loranthus* sp., *Microcos paniculata*, mango, etc.

C. viridis var. **colemani** Kannan in Coleman & Kannan, 1918 : 14.

=*Coccus colemani* Kannan, 1918 : 130 ; *Lecanium (Coccus) colemani* ; *C. viridis colemani*.

INDIA (Karnataka : Mysore).

On leaves and branches of arabica coffee.

C. watti (Green) ; Fernald, 1903 : 174.

=*Lecanium watti* Green, 1900 : 6 ; *Saissetia watti*.

INDIA (Assam : Sibsagar ; Meghalaya : Dawki ; West Bengal : Krishnanagar).

On tea and *Citrus* spp.

Genus Cribrolecanium Green, 1921

Type species : *Cribrolecanium formicarum* Green, 1921

C. formicarum Green, 1921 : 639.

=*Cribrolecanium formicarium* (lapsus).

SRI LANKA (Peradeniya).

On branches of *Stereospermum chelonoides*, with the ant *Crematogaster* sp.

C. radicicola Green, 1921 : 642.

INDIA (Tamil Nadu : Coimbatore).

On roots of *Acacia auriculiformis*.

Genus Ctenochiton Maskell, 1879

Type species : *Ctenochiton viridis* Maskell, 1879

C. cinnamomi Green, 1922b : 1030.

SRI LANKA (Colombo).

On *Cinnamomum* sp.

C. fryeri Green, 1922b : 1031.

SRI LANKA (Vavuniya).

On an undetermined tree.

C. olivaceum Green, 1922b : 1032.

INDIA (Tamil Nadu : Coimbatore). SRI LANKA (Matale).

On undersurface of leaf of *Pterospermum suberifolium* and *Ficus bengalensis*.

Genus Eriochiton Maskell, 1887

=*Eriochitin* (lapsus).

Type species : *Eriochiton hispidus* Maskell, 1887

E. amygdalae Rao, 1939 : 59.

PAKISTAN (N. W. region : Baluchistan : Loralai and Manekhawa).

On almond tree, *Cydonia vulgaris*, *Malus pumila*, *Prunus amygdalus* and *P. persica*.

Genus Eucalymnatus Cockerell in Cockerell & Parrott, 1901

Type species : *Lecanium tessellatum* Signoret, 1873

E. tessellatus (Signoret) ; Cockerell & Parrott, 1901 : 57.

=*Lecanium tessellatum* Signoret, 1873 : 401 ; *L. perforatum* Newstead, 1894b : 233 ; *L. tessellatum* var. *perforatum* ; *Eucalymnatus perforatum* ; *E. perforatus* ; *Lecanium subtessellatum* Green, 1904b : 206 ; *L. tessellatum* var. *obsoletum* Green, 1922b : 1024 ; *L. (Eucalymnatus) tessellatum* ; *L. tessellatum-obsoletum*.

INDIA (Tamil Nadu : Nilgiris : Coimbatore). SRI LANKA (widely including Kandy and Matale).

On leaves of palm *Caryota urens*, *Cocos nucifera*, *Cinnamomum* sp., *Litsea* sp., *Mimosa indica*, *Hiptage madablota*, *Myrtus* sp., *Calophyllum* sp., other palm leaves, etc.

Genus **Eulecanium** Cockerell, 1893

Type species : *Coccus tiliae* Linnaeus, 1758

Eulecanium spp.

PAKISTAN (Quetta, Murree Hills, Marghuzar, Muzaffarabad, Abbottabad, Rawalpindi, Chattarclass, Dhirkot, etc.).

On *Cedrela toona*, *Ficus* sp., *F. carica*, *F. palmata*, *Prunus* spp., *P. bokhariensis*, *P. armeniaca*, *Pyrus* sp., *Pistacia* sp., *Quercus* sp. and *Q. dilatata*.

Eulecanium sp. (nr. *tiliae* Linnaeus)

INDIA (Himachal Pradesh : Saproon Valley and Kotta-ka-Nala).

PAKISTAN (Abbottabad, Khotakabbar, Haripur, Usman Khattar).

On *Prunus amygdalus*, *P. armeniaca*, *P. bokhariensis*, peach (*P. persica*), plum (*P. domestica*) and apple (*Malus pumila*).

E. capreae (Linnaeus) ; Fernald, 1903 : 183.

=*Coccus capreae* Linnaeus, 1767 : 741 ; *Lecanium capreae*.

INDIA (Jammu & Kashmir : Srinagar, Taliskar). PAKISTAN (Baluchistan, Abbottabad).

On peach, 'wetarine', almond, loquat, plum, etc.

E. coryli (Linnaeus) ; Cockerell, 1901a : 92.

= *Coccus coryli* Linnaeus, 1758 : 456 ; *Chermes coryli* ; *Chermes coryli hemisphaericus* Geoffroy, 1762 : 507 ; *Lecanium coryli* ; *Eulecanium tiliae* Auct.

INDIA (Jammu & Kashmir ; Uttar Pradesh : Dehra Dun, Chakrata, Kanasar 6750'). PAKISTAN (Western and Northern Hills).

On *Crataegus* sp., *Malus pumila*, *Prunus amygdalus*, *P. armeniaca*, *P. bokhariensis*, *P. persica*, *P. pashia*, *Pyrus communis*, quence, goose-berry and cherry.

Genus Hemilecanium Newstead, 1906

Type species : *Hemilecanium theobromae* Newstead, 1908 (= *Lecanium imbricans* Green, 1903)

H. imbricans (Green) ; Green, 1910 : 6.

= *Lecanium imbricans* Green, 1903 : 94 ; *Hemilecanium theobromae* Newstead, 1908b : 39.

INDIA (Tamil Nadu : Nilgiris, Coimbatore ; Karnataka : Mysore, Belur, Shevaroy).

On *Cedrela toona*, *Ficus mysorensis*, *F. glomerata*, *F. infectoria*, *Ailanthus excelsa*, *Jatropha multifida*, red cedar, etc.

Genus Kilifia De Lotto, 1965

= *Platycoccus* Takahashi, 1959 (preoccupied) ; *Habibius* Ezzat & Hussein, 1969.

Type species : *Lecanium acuminatum* Signoret, 1873

K. acuminata (Signoret) ; De Lotto, 1965 : 206.

= *Lecanium acuminatum* Signoret, 1873 : 397 ; *Coccus acuminatum* ; *C. acuminatus* ; *Protopulvinaria acuminatus* ; *Platycoccus acuminatus* ; *Habibius acuminatus*.

SRI LANKA (Pundaluoya).

On foliage of mango and *Jasminum* sp.

Genus **Maacoccus** Tao et al., 1983

Type species : *Lecanium bicruciatum* Green, 1904

M. bicruciatum (Green) ; Tao et al., 1983 : 71.

=*Lecanium bicruciatum* Green, 1904b : 214 ; *Coccus bicruciatum* ;
C. bicurciatus (lapsus).

INDIA (Tamil Nadu : Tinnevely Distt.). SRI LANKA (Peradeniya, Pundaluoya, Watawella and Nuwara Eliya).

On undersurface of leaves of *Memecylon umbellatum*, *Nothopegia colebrookiana*, *Elaeagnus latifolia*, *Calophyllum* sp., *Eugenia* sp., mango, etc.

Genus **Marsipococcus** Cockerell & Bueker, 1930

Type species : *Lecanium marsupiale* Green, 1904

M. marsupiale (Green) ; Cockerell & Bueker, 1930 : 7.

=*Lecanium marsupiale* Green, 1904b : 212 ; *Coccus marsupiale*.

INDIA (Kerala : Malabar ; Tamil Nadu : Wynaad, Anamalais, Kollegal). SRI LANKA (Peradeniya, Rambukkana, Matale).

On leaves of *Piper nigrum*, other *Piper* spp., *Pothos scandens*, *Annona* spp., *Ficus retusa*, *F. indicus* etc.

Genus **Neolecanium** Parrott, 1901

Type species : *Lecanium imbricatum* Cockerell, 1896

N. cinnamomi Rutherford, 1914 : 265.

SRI LANKA.

On bark and branches of *Cinnamomum* sp.

N. pseudoleae Rutherford, 1915 : 112.

SRI LANKA (Peradeniya).

On branches of *Cinnamomum* sp.

Genus Neoplatylecanium Takahashi, 1929

Type species : *Neoplatylecanium cinnamomi* Takahashi, 1929

N. tripartitum (Green) ; Takahashi, 1929 : 54.

= *Lecanium tripartitum* Green, 1922b : 1025.

SRI LANKA (Badulla : Namunakuli Hill).

On foliage of *Calophyllum walkeri*.

Genus Paralecanium Cockerell in Cockerell & Parrott, 1899

Type species : *Lecanium frenchii* Maskell, 1891

P. calophylli (Green) ; Green, 1904b : 248.

= *Lecanium (Paralecanium) calophylli* Green, 1904b : 240 ; *Lecanium calophylli*.

SRI LANKA (Nuwara Eliya).

On foliage of *Calophyllum* sp.

P. expansum expansum (Green) ; Fernald, 1903 : 199.

= *Lecanium expansum* Green, 1896a : 9 ; *Lecanium (Paralecanium) expansum*.

INDIA (Tamil Nadu : Madras, S. Arcot ; Karnataka). SRI LANKA (Pundaluoya).

On *Litsea* sp., *Dalbergia* sp., *Calophyllum* sp., and *Ficus retusa*.

P. expansum quadratum (Green) ; Morrison, 1920 : 194.

= *Lecanium expansum* var. *quadratum* Green, 1904b : 236 ; *Paralecanium expansum* var. *quadrata* ; *P. quadratum*.

SRI LANKA (Balangoda).

On foliage of nutmeg (*Myristica fragrans*).

P. geometricum (Green) ; Fernald, 1903 : 199.

= *Lecanium geometricum* Green, 1896a : 9.

SRI LANKA (Pundaluoya).

On upper surface of leaves of *Glycosmis pentaphylla*.

P. limbatum (Green) ; Green, 1937 : 306.

= *Lecanium limbatum* Green, 1922b : 1023.

SRI LANKA (Batticaloa).

On foliage of *Ixora coccinea*.

P. mancum (Green) ; Green, 1937 : 305.

= *Lecanium mancum* Green, 1922b : 1023.

SRI LANKA (Badulla : Namunakuli Hill).

On foliage of *Calophyllum walkeri*.

P. marginatum (Green) ; Fernald, 1903 : 199.

= *Lecanium marginatum* Green, 1896a : 9 ; *L. (Paralecanium) marginatum*.

SRI LANKA (Pundaluoya).

On upper surface of leaves of *Psychotria thwaitesii*.

P. maritimum (Green) ; Fernald, 1903 : 199.

= *Lecanium planum* var. *maritimum* Green, 1896a : 9 ; *L. (Paralecanium) maritimum* ; *L. maritimum*.

INDIA. SRI LANKA (Bentota and Colombo).

On leaves of *Carissa* sp., *Ixora coccinea* and 'a thorny shrub'.

P. peradeniyense (Green) ; Green, 1904b : 248.

= *Lecanium* (*Paralecanium*) *peradeniyense* Green, 1904b : 241 ; *L. peradeniyense*.

SRI LANKA (Peradeniya and Heneratgoda).

On upper surface of leaves of *Piper nigrum* and *Smilax ovalifolia*.

P. planum (Green) ; Fernald, 1903 : 200.

= *Lecanium planum* Green, 1896a : 9 ; *L. (Paralecanium) planum*.

SRI LANKA (Pundaluoya).

On upper surface of leaves of *Nothopegia colebrookiana*.

P. trifasciatum (Green) ; Green, 1937 : 307.

= *Lecanium trifasciatum* Green, 1922b : 1024.

SRI LANKA (Batticaloa).

On foliage of *Hemicyclea lanceolata*.

P. zonatum (Green) ; Green, 1904b : 248.

= *Lecanium* (*Paralecanium*) *zonatum* Green, 1904b : 245 ; *L. zonatum*.

SRI LANKA (Peradeniya).

On undersurface of leaves of *Garcinia spicata*.

Genus Platylecanium Cockerell & Robinson, 1915

Type species : *Neolecanium cribrigerum* Cockerell & Robinson, 1915

Platylecanium sp.

PAKISTAN (Abbottabad).

On *Pistacia integerrima*.

P. nepalense Takagi, 1975 : 7.

NEPAL (Balaju).

On leaves of an undetermined Anacardiaceous tree.

Genus Parthenolecanium Sulc, 1908

Type species : *Lecanium coryli* Sulc, 1908, *nec* Linnaeus, 1758
(=*Lecanium corni* Bouche).

P. corni (Bouche) ; Borchsenius, 1957 : 356.

=*Lecanium corni* Bouche, 1844 : 298 ; *L. corylifex* Fitch, 1857 : 473 ; *L. cynosbati* Fitch, 1857 : 436 ; *L. fitchii* Signoret, 1873 : 404 ; *L. wistariae* Signoret, 1873 : 433 ; *L. cerasifex* Fitch, 1857 : 368 ; *L. ribis* Fitch, 1857 : 427 ; *L. juglandifex* Fitch, 1857 : 473 ; *L. coryli* : Sulc, 1908 : 36, *nec* Linnaeus ; *Parthenolecanium coryli* ; *Eulecanium corni* ; *L. corni* var. *robiniarum* Marchal, 1908 : 3 ; *L. (Eulecanium) corni*.

PAKISTAN.

On ?

P. persicae (Fabricius) ; Borchsenius, 1957 : 350.

=*Chermes persicae* Fabricius, 1776 : 304 ; *C. persicae oblongus* Geoffroy, 1762 : 506 ; *Coccus persicorum* Sulzer, 1776 : 112 ; *C. costatus* Schrank, 1781 : 296 ; *C. persicae* ; *Lecanium persicae* ; *L. rosarum* Snellen von Vollenhoven, 1862 : 94 ; *L. cymbiformis* Targioni Tozzetti, 1869 : 37 ; *L. persicochilense* Targioni Tozzetti, 1869 : 38 ; *L. elongatum* Signoret, 1873 : 404 ; *L. sarothamni* Douglas, 1891 : 65 ; *L. magnoliarum* Cockerell, 1898a : 145 ; *L. (Eulecanium) magnoliarum* ; *Eulecanium persicae* ; *E. magnoliarum* ; *E. magnoliarum* var. *hortensiae* Cockerell, 1903 : 19 ; *Coccus elongatus* ; *L. (Coccus) elongatus* ; *Parthenolecanium thymi* Danzig, 1967 : 152.

INDIA (Punjab : Changa Manga). PAKISTAN (Jhelum, Quetta, Swat, Abbottabad, Haripur, Peshawar Valley).

On *Morus indica*, *M. alba*, *Prunus amygdalus* and *P. bokhariensis*.

Genus Platysaissetia Cockerell, 1901

Type species : *Lecanium castilloae* Cockerell, 1898

P. crustuliforme (Green) ; Green, 1922a : 461.

= *Neolecanium crustuliforme* Green, 1909a : 252 ; *Lecanium* (*Platysaissetia*) *crusutliforme*.

SRI LANKA (Chilaw).

On branches of undetermined tree.

Genus Saissetia Deplanche, 1859

= *Bernardia* Ashmead, 1891 ; *Parasaissetia* Takahashi, 1955.

Type species : *Lecanium coffeae* Walker 1852 (= *Saissetia coffeae* Deplanche, 1859)

Saissetia sp.

INDIA (Orissa : Puri, Bhubaneswar, Gopalpur, Balasore, Baripada).

On *Calophyllum*, *Erythrina*, *Cajanus*, *Nerium*, *Psidium* and undetermined plants.

S. coffeae (Walker) ; Deplanche, 1859 : 206.

= *Lecanium coffeae* Walker, 1852 : 1079 ; *L. hemisphaericum* Targioni-Tozzetti, 1867 : 26 ; *L. (Saissetia) coffeae* ; *L. hemisphaericum* var. *coffeae* ; *Saissetia hemisphaerica* ; *L. (Saissetia) hemisphaericum* ; *Coccus coffeae* ; *Chermes anthurii* Boisduval, 1867 : 328 ; *C. hibernaculorum* Boisduval, 1867 : 337 ; *L. beaumontiae* Douglas, 1887 : 95 ; *L. clypeatum* Douglas, 1888 : 58.

BANGLADESH (Sylhet : Srimangal). INDIA (very widely including Tamil Nadu, A. P., Karnataka, Goa, Maharashtra, Bihar, Assam, Manipur, Orissa, West Bengal and Andaman Is.).

SRI LANKA (widely).

On coffee plant and many others including *Citrus* spp., tea, ferns, guava, brinjal, *Tabernaemontana* sp., *Abelmoschus esculentus*, *Hibiscus rosa-sinensis*, loquat, crotons, *Thunbergia* sp., *Trichosanthes anguina*, *Manikara achras* (= *Achras sapota*), *Jacaranda mimosaeifolia*, *Psidium* sp., *Duranta* sp., *Gardenia florida*, *Mikania scandens*, *Ixora coccinea*, *Tabernaemontana coronaria*, *Terminalia catappa*, *Cajanus cajan*, *Cephalandra indica*, *Ixora parviflora*, palms and orchids in greenhouses, etc.

S. crassum (Green) ; Ali, 1971 : 44.

=*Lecanium* (*Saissetia*) *crassum* Green, 1930 : 287.

INDIA.

On *Ficus religiosa* and *Psidium guajava*.

S. depressa (Targioni Tozzetti) ; King, 1902 : 296.

=*Lecanium depressum* Targioni Tozzetti, 1867 : 29 ; *L. nigrum* ?
var. *depressum* ; *Saissetia nigrum depressum*.

INDIA (Tamil Nadu : Coimbatore, N. Salem : Aiyur, Jawalagiri ;
Kerala : W. Ghats ; Karnataka : Fraserpet).

On *Thespesia populnea*, *Eranthymum* sp., *Hevea* sp., banana, crotons,
etc.

S. filicum (Boisduval) ; King, 1902 : 298.

=*Chermes filicum* Boisduval, 1867 : 335 ; *Lecanium filicum* ; *L.*
hemisphaericum var. *filicum*.

INDIA (Tamil Nadu : Nilgiris : Ootacamund ; Karnataka :
Shevaroy, Bangalore, Coorg ; Orissa : Ganjam Distt.).

On tea plant, ferns and *Randia dumetorum*.

S. miranda (Cockerell & Parrott) ; De Lotto, 1970b : 419.

=*Lecanium oleae miranda* Cockerell & Parrott in Cockerell, 1899a :
12.

INDIA (Tamil Nadu : Palni Hills).

On *Erythrina lithosperma*.

S. nigra (Nietner) ; King, 1902 : 296.

=*Lecanium nigrum* Nietner, 1861 : 9 ; *L. (Saissetia) nigrum* ;
Saissetia nigrella King, 1902 : 296 ; *Coccus nigrum* ; *S. nigrum* ;
Parasaissetia nigra ; *S. nigra depressa* [?].

BANGLADESH (Chittagong : University and Patia). **BURMA** Maymyo, Myitkyina). **INDIA** (widely including Jammu & Kashmir ; U. P. : Dehra Dun ; Bihar : Pusa ; West Bengal : Calcutta ; Assam : Tocklai ; Tripura ; Tamil Nadu : Tinnevely, Coimbatore, N. Salem : Aiyur, Jawalagiri, Uduparani ; Karnataka : Coorg : Fraserpet). **PAKISTAN** (Karachi, Muzaffarabad, Thatta and Kohala). **SRI LANKA**.

On leaves and branches of many plants including *Annona* spp., *Abelmoschus esculentus*, *Abutilon indicum*, *Asparagus* sp, *Balsamia indica*, *Begonia* sp., *Citrus* sp., *Croton tiglium*, coffee, *Cobaea* sp., *Capparis sepiaria*, crotons, cotton (*Gossypium* sp.), *Hevea brasiliensis*, *Hibiscus rosa-sinensis*, *Hygrophila spinosa*, jute (*Corchorus* spp.), *Justicia* sp., *Luffa* sp., *Lawsonia* sp, *Manihot* sp., *Morus* sp., *M. alba*, *M. indica*, *Microcos paniculata*, *Morinda* sp., nutmeg, sandal wood, *Thespesia populnea*, *Thea chinensis*, *Terminalia catappa*, *Ficus benghalensis*, *F. religiosa*, *F. palmata*, *Ricinus communis*, *Tabernaemontana recurva*, *Mimusops elengi*, *Jasminum* sp., *Musa sapientum*, *Psidium guajava*, *Salvadora oleoides*, *Parkinsania aculeata*, *Ligustrum* sp., *Canna indica*, *Solanum nigrum*, *Dicliptera roxburghiana*, *Adhatoda vasica*, *Cannabis sativa*, *Cucumis sativus*, *Chenopodium ambrosioides*, *C. murale*, *Ipomoea carnea*, *Eleusine indica*, *Malva* sp., *Coronopus didymus*, *Sonchus arvensis*, *Boerhaavia diffusa*, *Cynodon dactylon*, etc.

S. oleae (Olivier) ; Cockerell, 1901b : 31.

=*Coccus oleae* Olivier, 1791 : 95 ; *Chermes oleae* ; *Coccus olea* ; *C. palmae* Haworth, 1812 : 307 ; *C. testudo* Curtis, 1843 : 444 ; *Lecanium oleae* ; *L. (Saissetia) oleae* ; *L. cassiniae* Maskell, 1891a : 15 ; *Chermes cycadis* Boisduval, 1867 : 323 ; *L. cycadis* ; *L. palmae* ; *L. (Saissetia) palmae* ; *L. (Saissetia) cassiniae* ; *Saissetia cassiniae* ; *S. oleae testudo* ; *S. palmae* ; *Parasaissetia oleae*.

INDIA (S. India ; Assam : Tocklai). **PAKISTAN** (Karachi and Thatta). **SRI LANKA**.

On *Thespesia* sp., *T. populnea*, *Antidesma buniis*, *Grewia orientalis*, *Duranta plumieri*, tamarind, *Iresine* sp., *Tabernaemontana recurva*, *Mimusops elengi*, *Erythrina* sp., *Hygrophila spinosa*, coffee, tea,

Sesbania sp., edible fig, *Cajanus indicus*, sapota, guava, *Lannea coromandelica* (= *Odina wodier*), *Asterocolia allata*, *Monstera deliciosa*, *Terminalia catappa*, *Tamarix articulata*, etc.

S. privigna De Lotto, 1965 : 229

INDIA (Andhra Pradesh : Guntur).

On *Abelmoschus esculentus*.

S. psidii (Green) ; Green, 1904b : 248.

= *Lecanium psidii* Green, 1904b : 225.

SRI LANKA (widely including Kandy, Peradeniya, Colombo and Belangoda).

On *Psidium guajava*, *Mangifera indica*, jak fruit (*Artocarpus heterophyllus*), *Eugenia* spp., nutmeg, *Myristica moschota* (always attended by ants).

Genus **Taiwansaissetia** Tao et al., 1983

Type species : *Lecanium formicarii* Green, 1896

T. formicarii (Green) ; Tao et al., 1983 : 77.

= *Lecanium formicarii* Green, 1896a : 10 ; *L. globulosum* Maskell, 1897a : 243 ; *L. (Saissetia) formicarii* ; *S. formicarii* ; *Coccus formicarii*.

INDIA (N. E. India : Assam ; Karnataka : Mysore). SRI LANKA (Pundaluoya, Balangoda and Kandy).

On tea plant, *Cinchona* sp., *Macaranga* sp., *Elaeocarpus* sp., and other shrubs, inside nests of an ant *Crematogaster dohrni*.

Tribe PULVINARIINI

Genus **Chloropulvinaria** Borchsenius, 1952

Type species : *Coccus floccifera* Westwood, 1870

C. cellulosa* (Green) ; Varshney, 1985a : 25.

= *Pulvinaria cellulosa* Green, 1909a : 262 ; *Chloropulvinaria polygonata* : Borchsenius, 1957 : 219 (*nec* Cockerell).

INDIA (West Bengal : Maldah ; Bihar : Sabour, Bhagalpur ; Uttar Pradesh : Dehra Dun). SRI LANKA (Pundaluoya).

On mango and *Citrus* sp.

C. floccifera (Westwood) ; Borchsenius, 1952 : 299.

= *Coccus flocciferus* Westwood, 1870 : 308 ; *Pulvinaria brassiae* Cockerell, 1895a : 135 ; *P. floccifera* ; *P. phaiae* Lull, 1899 : 237 ; *P. floccosa* Newstead, 1900a : 26 ; *P. camelicola* Signoret, 1873 : 32 ; *P. camellicola* (lapsus) ; *P. cestri* Lindinger, 1932 : 181.

BANGLADESH (Chittagong : University and Patia). INDIA (West Bengal : Calcutta).

On *Acalypha* sp. and *Psidium guajava*.

C. psidii (Maskell) ; Borchsenius, 1952 : 300.

= *Pulvinaria psidii* Maskell, 1893 : 223 ; *P. cupaniae* Cockerell, 1893g : 159 ; *P. ficus* Hempel, 1900 : 488.

BANGLADESH (Dhaka, Khulna, Chittagong, Patia). INDIA (widely including Tamil Nadu : Coimbatore, Nilgiris ; Pondicherry ; Kerala : Calicut ; Karnataka : Bangalore, Mysore, Belgaum ; Andhra Pradesh : Cuddappah ; Orissa ; Maharashtra : Poona ; Bihar : Pusa, Muzaffarpur ; West Bengal : Kalimpong, Darjeeling ; Tripura : Agartala). PAKISTAN (Lahore). SRI LANKA (very widely).

On many plants including species of *Psidium*, *Ficus*, *Citrus*, *Eriobotrya*, *Lowsonia*, *Barringtonia*, *Anthocephalus*, *Achras*, *Melastoma*, *Lagerstroemia*, *Mangifera*, *Morinda*, *Camellia*, *Coffea*, *Carissa*, *Eugenia*, *Strychnos* (*nuxvomica*), *Litchi*, *Bassia*, *Mallotus*, *Morus*, *Euonymus*, *Gardenia*, *Cinchona*, etc.

* Many workers treat it as a syn. of *polygonata* Ckll , 1907.

C. venkatramani, nomen novum

= "*Pulvinaria durantae* Tak. (?)" : Ayyar, 1936 : 147 ; "*Pulvinaria durantae*, var. nov. ?" : Venkatraman, 1941 : 847 ; *Eupulvinaria durantae* Auct. (nec Takahashi, 1931).

INDIA (Tamil Nadu : Coimbatore : Agricultural College Estate).

On the roots of *Amaranthus* sp.

Remarks : Both Ayyar (1936) and Venkatraman (1941) recognised it as a new taxon, but refrained to name. Venkatraman (1941) illustrated it in 11 figs. and also described in detail with clearly distinguishing it from Taiwanese *durantae*. It is named here after him and placed in *Chloropulvinaria* on account of its closeness to *C. psidii* in external appearance, production of ovisac and apical furcation of marginal hairs.

Genus Macropulvinaria Hodgson, 1968

Type species : *Pulvinaria jacksoni* Newstead, 1908

Macropulvinaria sp.

BANGLADESH (Rajshahi).

On *Ziziphus mauritiana*.

M. maxima maxima* (Green) ; Tao et al., 1983 : 87.

= *Pulvinaria maxima* Green, 1904a : 206 ; *Eriochiton formosae* Takahashi, 1929 : 64 ; *P. maxima maxima*.

BANGLADESH (Chittagong and Rajshahi). INDIA (Tamil Nadu : Tanjore, Coimbatore, Krishna Distt., Salem Distt., S. Arcot : Palur ; Kerala : Walayar Forest ; Andhra Pradesh : Godavari Distt. ; Orissa ; Bihar : Pusa ; West Bengal : Calcutta ; Uttar Pradesh : Aligarh, Dehra Dun ; Rajasthan : Jodhpur [new record]. PAKISTAN (Karachi and Thatta). SRI LANKA (Jaffna, Kaduganawa).

*Type of new genus *Megapulvinaria* Yang, 1982 : 162 (in chinese).

On leaves and young shoots of *Thespesia populnea*, *Azadirachta indica* (= *Melia azadirachta*), *Acalypha* sp., *Tamarix articulata*, *Monstera deliciosa*, *Dalbergia sissoo*, *Calotropis procera*, *Erythrina* sp., *Salvadora oleoides*, *Cyperus rotundus*, *Jatropha* sp., *J. pendurifolia*, *Sida* sp., *Croton tiglium*, *Ziziphus mauritiana*, cotton (*Gossypium hirsutum*), grape vine, mulberry (*Morus alba*), 'kadam', etc.

M. maxima thespesiae (Green), n. comb.

= *Pulvinaria thespesiae* Green, 1909a : 259 ; *P. thespesia* ; *P. maxima thespesiae*.

INDIA (Andhra Pradesh : Godavari Distt. : Coringa ; Tamil Nadu : Tanjore). SRI LANKA (Jaffna, Kaduganawa).

On *Thespesia populnea* and *Croton tiglium*.

M. polygonata (Cockerell) ; Tao et al., 1983 : 89.

= *Pulvinaria polygonata* Cockerell, 1907 : 131 ; *Chloropulvinaria polygonata*.

BANGLADESH (Khulna : Kaliganj). INDIA (widely including Uttar Pradesh : Pant Nagar, Sitapur, Aligarh ; Bihar : Bhagalpur, Pusa, Muzaffarpur, Motihari, Betiah, Narkatiagunj, Harnagar ; West Bengal : Santi Niketan and Malda ; Orissa : Bhubaneswar, Khurda and Jatni). PAKISTAN (Karachi). SRI LANKA.

On mango, citrus, *Thevetia neriifolia*, *Albizia lebbek*, *Tabernaemontana recurva*, *Lantana camara*, etc.

Genus Protopulvinaria Cockerell, 1894

Type species : *Protopulvinaria pyriformis* Cockerell, 1894

P. longivalvata Green, 1909a : 254.

= *Protopulvinaria longivalvata bakeri* Cockerell in Cockerell & Robinson, 1914 : 332.

SRI LANKA (Heneratgoda and Peradeniya).

On leaves of *Piper* sp., *P. nigrum* and *Loranthus* sp.

P. mangiferae (Green) ; Steinweden, 1929 : 223.

= *Lecanium mangiferae* Green, 1889 : 249 ; *Coccus mangiferae* ; *C. kuraruensis* Takahashi, 1939 : 314.

INDIA (Bihar : Pusa ; West Bengal : Calcutta ; Tamil Nadu : Coimbatore). PAKISTAN (Hyderabad, Mirpur Khas). SRI LANKA (Pundaluoya, Peradeniya).

On *Mangifera indica*, *Litsea zeylanica*, *Cinnamomum* sp., and jack-fruit (*Artocarpus heterophyllus*).

Genus **Pulvinaria** Targioni Tozzetti, 1866

= *Pulvinella* Hempel, 1900

Type species : *Coccus vitis* Linnaeus, 1758

Pulvinaria spp.

BANGLADESH (Khulna : Paikgacha ; Chittagong : Patia ; Sylhet : Srimangal). INDIA (Bihar : Bhagalpur ; Orissa : Jatni). PAKISTAN (Central and Northern regions ; Thatta, Karachi and Hyderabad).

On chilli (*Capsicum* sp.), primrose (*Mirabilis jalapa*), *Basella rubra*, *B. alba*, *Citrus jambura*, *C. limon*, *Psidium guajava*, *Musa sapientum*, *Azadirachta indica*, *Ziziphus mauritiana*, *Iresine* sp., *Ipomoea* sp., *Antigonon leptopus*, *Adhatoda vasica*, *Althaea officinalis*, *Cyperus rotundus*, *Cynodon dactylon*, *Cestrum diurnum*, *Cordia obliqua*, *Canna indica*, *Duranta plumieri*, *Eleusine indica*, *Helianthus annuus*, *Ipomoea carnea*, *Jasminum* sp., *Nerium indicum*, *Lantana camara*, *Leucas cephalotes*, *Lawsonia inermis*, *Pentapetes phoenicea*, *Tagetes africana*, *Tinospora cordifolia*, *Trachelospermum lucidum*, *Vinca rosea* and *Wrightia tomentosa*.

P. aligarhensis Avasthi & Shafee, 1980b : 166.

INDIA (Uttar Pradesh : Aligarh).

On *Azadirachta indica*.

P. burkilli Green, 1908 : 31.

INDIA (West Bengal : Calcutta ; Tamil Nadu : Coimbatore).

On *Croton tiglium* and *Ziziphus jujuba*.

P. indica Avasthi & Shafee, 1985 : 1290.

INDIA (Andhra Pradesh : Simhachalam).

On *Duranta repens*.

P. ixorae Green, 1909a : 266.

BANGLADESH (Khulna : Kaliganj). SRI LANKA (Batticaloa).

On *Ixora coccinea* and *Citrus jambura*.

P. loralaiensis Rao, 1939 : 60.

PAKISTAN (Baluchistan : Quetta, Loralai and Duki).

On the leaves of *Malus pumila*, pistachio (*Pistacia vera*), *Populus alba*, *P. nigra*, *Salix* sp., mulberry (*Morus alba*) and *Punica granatum*.

P. obscura Newstead, 1894a : 23.

INDIA (Tamil Nadu : Madras : Nungumbaukum).

On *Hygrophila erecta* (= *H. spinosa*).

P. tessellata Green, 1896a : 8.

SRI LANKA (Pundaluoya, Nuwara Eliya and Yatiyantota).

On underside of leaves of *Ophiorrhiza pectinata*, *Strobilanthes* sp. and undetermined plant.

P. tomentosa Green, 1896a : 8.

SRI LANKA (Pundaluoya).

On leaves and branches of an undetermined shrub.

Genus Rhizopulvinaria Borchsenius, 1952

Type species : *Rhizopulvinaria virgulata* Borchsenius, 1952

Rhizopulvinaria sp.

PAKISTAN (Peshawar and Mingora).

On *Amaranthus spinosus* and *Artemisia* sp.

Genus *Takahashia* Cockerell, 1896

(nec *Takahashia* Ananthakrishnan, 1970 renamed as *Varshneyia* Ananthakrishnan, 1973).

Type species : *Pulvinaria (Takahashia) japonica* Cockerell, 1896

T. japonica (Cockerell) ; Kuwana, 1902b : 61.

= *Pulvinaria (Takahashia) japonica* Cockerell, 1896b : 20.

INDIA (Uttar Pradesh : Bhim Tal).

On mulberry (*Morus alba*).

Subfamily FILIPINAE**Genus *Cardiococcus* Cockerell, 1903**

Type species : *Cardiococcus umbonatus* Cockerell, 1903

C. bivalvata (Green) ; Green, 1922b : 1034.

= *Inglisia bivalvata* Green, 1903 : 95.

INDIA (Tamil Nadu : Rameswaram Is. and Coimbatore ; Andhra Pradesh : Godavari Distt.).

On shoots of *Thespesia populnea*, *Pongamia pinnata* and red gram.

Genus *Ceroplastodes* Cockerell, 1893

Type species : *Lecanopsis dugesii* Signoret, 1866 [= *Fairmairia (Ceroplastodes) nivea* Ckll., 1893]

***Ceroplastodes* sp.**

BANGLADESH (Chittagong). INDIA (Jammu & Kashmir : Jammu ; U.P. : Mathura ; Bihar : Darbhanga ; Orissa : Khurda, Rambha and Talcher).

On *Psidium guajava*, *Ficus bengalensis*, *Ixora* sp. and a wild plant.

C. cajani (Maskell) ; Cockrell, 1900 : 368.

= *Eriochiton cajani* Maskell, 1891b : 61.

INDIA (Kerala : Cochin ; Tamil Nadu : Madras, Tenkasi, Coimbatore ; Andhra Pradesh : Godavari Distt. ; West Bengal : Calcutta ; Bihar : Pusa ; Orissa : Bhubaneswar, Khurda, Jatni ; Himachal Pradesh : Mandi ; Punjab : Phillaur ; Gujarat : Surat). PAKISTAN (Karachi and Thatta). SRI LANKA (Chilaw, Hakgala and Jaffna).

On stems of *Cajanus cajan*, *Ziziphus mauritiana*, lablab, *Ocimum sanctum*, *O. basilicum*, *Tephrosia candida*, wild indigo, *Mimosa pudica*, *Ficus* sp., *F. glomerata*, *Coleus* sp., *Abrus precatorius*, *Atylosia candollei*, *Ipomoea* sp., *Hibiscus rosa-sinensis*, etc.

C. chiton Green, 1909a : 287.

=*Ceroplastodes chiton* Green, 1908 : 32 (nom. nud.) ; *Ceroplastes* (C.) *chiton* : Giliomee, 1967 : 143.

INDIA (Himachal Pradesh : Kulu ; Uttar Pradesh : Dehra Dun ; West Bengal : Darjeeling ; N. E. India ; Andaman Is.). PAKISTAN (Peshawar Valley, Malakand : Dargai, Swat : Madyan and Khwaja Khila, Saidu Sharif, Behrain, Kohat, Rawalpindi, Karachi and Lahore). SRI LANKA (Maha Illuppalama ; North and Central Provinces).

On stems and small branches of *Cassia* sp., *Cajanus cajan*, *Solanum* sp., *Canavalia* sp., tea plant, *Ficus* sp., *F. bengalensis*, *F. palmata*, *Ziziphus mauritiana*, *Convolvulus* sp., *Morus alba*, *Hibiscus syriacus*, *Rubus nivens*, etc.

C. guilliermondi (Mahdihassan) ; Mahdihassan, 1961 : 329. (nomen nudum).

=*Ceroplastes guilliermondi* Mahdihassan, 1933 : 561.

INDIA (Karnataka : Bangalore).

On *Annona squamosa*.

C. vayssierei (Mahdihassan) ; Varshney, 1985a : 25. (nom. nud.).

=*Ceroplastes vayssierei* Mahdihassan, 1936 : 1-23 ; *C. vayssieri*.

INDIA (Karnataka : Bangalore).

On *Dodonea viscosa*.

C. virescens Green, 1909a : 288.

SRI LANKA (Matale).

On terminal shoots of *Theobroma cacao*.

Genus **Dicyphococcus** Borchsenius, 1959

Type species : *Dicyphococcus bigibbus* Borchsenius, 1959

D. castilloae (Green) ; Borchsenius, 1959 : 169.

=*Inglisia castilloae* Green, 1911 : 29 ; *Cardiococcus castilloae* ;
C. castilloa (lapsus).

INDIA (Tamil Nadu : Coimbatore). SRI LANKA (Koslanda Distt.).

On branches of rubber-yielding plant (*Castilla elastica*), *Grewia microcos*, *Adenochlaena zeylanica*, *Solanum* sp., *Vernonia* sp., tea plant, *Tamarindus indicus*, etc.

Genus **Inglisia** Maskell, 1879

=*Inglisian* (lapsus).

Type species : *Inglisia patella* Maskell, 1879

I. chelonioides Green, 1909a : 283.

INDIA (Tamil Nadu : Coimbatore and Vedapeta ; Kerala : Trichur ; Maharashtra : Shiroda). SRI LANKA (Pundaluoya and Colombo).

On *Gelonium lanceolatum*, *Pithecellobium dulce*, *Parkinsonia aculeata*, *Acacia leucophloea*, *Casuarina equisetifolia* and *Caesalpinia ceciliaria*.

Genus **Lecanopsis** Targioni Tozzetti, 1868

=*Rhizobium* Targioni Tozzetti, 1867 ; *Paralecanopsis* Bodenheimer, 1951 ; *Rhyzobium* (lapsus).

Type species : *Lecanopsis rhizophila* Targioni Tozzetti, 1868

L. ceylonica Green, 1922b : 1026.

INDIA (Coimbatore). SRI LANKA [= CEYLON] (Pattipola).

On the base and roots of grass, covered by stones.

Genus Metaceronema Takahashi, 1955

Type species : *Ceronema japonica* Maskell, 1897

M. japonica (Maskell) ; Takahashi, 1955 : 27.

=*Ceronema japonica* Maskell, 1897a : 243 ; *Eriochiton theae* Green, 1900 : 11 ; *Lichtensia japonica*.

INDIA (West Bengal : Darjeeling). PAKISTAN (Abbottabad).

On tea plant, *Olea cuspidata* and *Grevillea robusta*.

Genus Tectopulvinaria Hempel, 1900

Type species : *Tectopulvinaria albata* Hempel, 1900

T. farinosa (Green) ; Green, 1937 : 313.

=*Exaeretopus farinosus* Green, 1922b : 1027.

SRI LANKA (Badulla : Namunakula Hill).

On young stems and foliage of *Psychotria bisulcata*.

XV Family CONCHASPIDIDAE

Genus Conchaspis Cockerell, 1893

=*Pseudinglisia* Newstead, 1893

Type species : *Conchaspis angraecae* Cockerell, 1893

C. socialis Green, 1896b : 15 (20*).

SRI LANKA (Tangalla).

On an undetermined shrub.

*Page numbers vary in the two versions of Green (1896) *Coccidae of Ceylon*, Pt. I.

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