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The psyllids (Homoptera: Psylloidea) of the Austro-Oriental, Pacific and Hawaiian zoogeographical realms: an annotated check list

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Introduction

In an early paper Crawford (1919) revised the jumping plant lice or psyllids of the Palaeotropics and the South Pacific Islands. His coverage was incomplete and subsequent discoveries have rendered his work largely obsolete. The purpose of this paper is, therefore, to summarize from scattered sources the published information on the psyllid fauna of the Austro-Oriental, Pacific and Hawaiian zoogeographic realms. It complements earlier papers which list the psyllids of the Neotropical and Palaearctic realms (Hodkinson and White 1981, Klimaszewski 1973).

The western boundary of the geographic area covered by this account passes north of New Zealand and through the Coral Sea east of New Caledonia, then through the Torres Straits between New Guinea and Australia and along the western limits of the Sunda Islands. After passing north of Sumatra it follows the Malaya-Thailand border, crosses the South China Sea and goes through the Formosa Straits. It then proceeds west of the Ryukyu Islands and cuts between Japan and the Ryukyus north of Amami-Oshima before extending across the Pacific north of Hawaii. Taiwan and the Ryukyu Islands are usually considered to belong to the Oriental zoogeographic realm. However, several genera and species originally described from these islands are widespread throughout the Austro-Oriental and Pacific realms and it is logical, therefore, to include them in the area under consideration.

The faunas of the Austro-Oriental and Pacific realms appear to be derived largely from the fauna of the Oriental region: many of the genera are also widespread on the Indian subcontinent (Mathur 1975). Links with the Australian and New Zealand faunas are weak. Typically, the Australian fauna comprises a large assemblage of endemic genera belonging to the Myrtaceae-feeding Spondyliaspididae, together with an equally diverse but as yet largely undescribed group of *Acizzia* species feeding on Leguminosae. A few members of the large genus *Glycaspis* (Spondyliaspididae) are found in the Austro-Oriental realm. Species belonging to the Carsidarid genera *Mycopsylla*, *Mesohomotoma* and *Protyora* are known from Australia (Tuthill and Taylor 1955) but they are probably more recent colonizers from the Austro-Oriental realm. Representatives of the genus *Ctenarytaina* and the '*Phylloplecta*' group of *Trioza sensu lato* occur on the South Pacific islands and form a link with the New Zealand fauna (Tuthill 1952). The origins of the endemic Hawaiian psyllids are obscure. They appear, however, to be derived by the diversification of a handful of ancestral lines within the family Triozidae (Crawford 1918).

Psyllids are usually host-plant specific and several species included in this paper feed on plants of economic or aesthetic importance. The Citrus psyllid *Diaphorina*

citri is a major pest of *Citrus* fruits throughout the region. Other species feed on Mango (*Mangifera indica*), Chinese olive (*Canarium album*), Malay apple (*Eugenia malaccensis*), Durian fruit (*Durio zibethinus*), Camphor (*Cinnamomum camphora*) and several fibre, latex or laquer producing plants such as *Urena lobata*, *Palaquium gutta* and *Rhus verniciflua* respectively. Recently, the *Acacia* psyllid *Acizzia uncatoides* has been introduced into the Hawaiian Islands where it has caused major problems by feeding on endemic *Acacia* species. Biological control methods have been tried in an attempt to conserve the native Acacias (Leeper and Beardsley 1973, 1976). A full systematic list of host plants and their associated psyllids follows the check list.

The nymphs of many species of psyllid induce the formation of galls on their host plants. Crawford (1918) noted the high proportion of gall forming species on remote Pacific Islands such as the Hawaiian group. He suggested that species living in the protected environment of a gall may be better adapted for dispersal and hence for the colonization of remote islands.

In the early part of this century several papers were published which described a variety of psyllid galls from the Austro-Oriental region. Unfortunately, in most cases the accompanying psyllids were not described. A list of these gall descriptions and their authors is appended to this paper. In some cases psyllids have subsequently been described from the same plant species but it is probaby unwise, without further evidence, to associate the insect with the gall. The list of plants from which galls are recorded extends significantly the range of known host-plants, suggesting that many psyllid species remain to be described.

The following check list uses the same format as the Neotropical check list (Hodkinson and White 1981). Genera are designated by capital letters and are arranged alphabetically. The psyllid family to which each genus is (or probably would be) referred under the Bekker-Migdisova (1973) classification follows the generic name. The type-species is given below the generic name.

Within each genus the species are arranged alphabetically. Species as presently conceived are listed in bold roman face: true synonyms, misidentifications and misspellings are indented in italics. References in square brackets following a specific name relate to those authors who have referred to the species in question under that name. For each species the type locality and host plants (where known) are given. Where species are recorded from islands or countries other than the type locality a further note on distribution is added. Host plants are quoted directly from the original records as attempting to revise names at this stage may compound errors which have occurred. The abbreviation (BM) is used to indicate material deposited in the British Museum (Natural History) and not recorded in the literature.

The taxonomic limits of several of the genera are poorly defined and some may be synonymous with others. No attempt has been made to undertake a revision: species are assigned to the genus in which the most recent author has placed them. However, comment is made on possible synonyms.

SUPERFAMILY PSYLLOIDEA

ACIZZIA Heslop-Harrison, 1949 a, 1961 b. [PSYLLIDAE]

TYPE SPECIES: *A. acaciae* (Maskell, 1894)

A legume-feeding genus distributed throughout Africa, Arabia, India and Australia. Several species have been introduced into New Zealand (Loginova, 1977). The genus was originally described as *Neopsylla*, a preoccupied name.

acaciaebaileyanae (Froggatt, 1901) [Loginova, 1977]

Psylla acaciaebaileyanae Froggatt [Tuthill, 1952: Braza & Calilung, 1981]

Psyllia acaciaebaileyanae (Froggatt) [Ferris & Klyver, 1932]

Type locality—Australia. *Distribution*—Philippines, Luzon: New Zealand; South Africa (introd.). *Host plants*—*Samanea saman* in the Philippines, elsewhere on *Acacia baileyanae* F. & M. and *A. podalyrinefolia* Cunn.

uncatoides (Ferris and Klyver, 1932) [Gagne 1971: Leeper and Beardsley, 1973, 1976: Loginova, 1977]

Psyllia uncatoides Ferris and Klyver

Psylla uncatoides (Ferris and Klyver) [Heslop-Harrison, 1949 a: Tuthill, 1952]

Type locality—New Zealand. *Distribution*—Australia. Introduced into Hawaiian Islands—Oahu and Hawaii, N. America, Mexico, France and Spain. *Host plants*—*Albizzia lophantha*, *Acacia verniciflua*, *Acacia koaia* Hillebrand, *Acacia koa* Gray and *Acacia confusa* Merril.

ANOMOCEPHALA Tuthill, 1942 [TRIOZIDAE]

TYPE SPECIES: *A. unica* (Tuthill, 1942)

A monotypic Pacific genus close to *Trioza*.

unica Tuthill, 1942

Type locality—Rapa Is. *Host plant*—unknown.

ANOMOTERGA Klyver, 1932 [APHALARIDAE]

TYPE SPECIES: *A. tahuata* (Klyver, 1932)

A monotypic Pacific genus close to *Paurocephala*.

tahuata Klyver, 1932

Type locality—Marquesas Is., Tahuata. *Host plant*—unknown.

APHALARA Förster, 1848 [APHALARIDAE]

TYPE SPECIES: *A. polygoni* Förster, 1848

A large north temperate genus. The records represent the southern limit of the genus (see Hodkinson 1980).

itadori (Shinji, 1938) [Miyatake, 1964 a, 1965, 1966: Baba and Miyatake, 1971: Klimaszewski, 1973]

Psylla itadori Shinji [Shinji, 1949]

Type locality—Japan. *Distribution*—Amami Oshima, Korea. *Host plants*—*Polygonum reynoldii*, *P. reynoutria* and *P. cuspidatum* S and Z. Sasaki (1954) erroneously synonymized this species with *Craspedolepta nebulosa* Zett. (see Miyatake, 1964 a).

rumicis Mally, 1894 [Tuthill, 1948]

Type locality—U.S.A. *Distribution*—Hawaiian Is., Oahu. *Host plant*—*Rumex altissimus*. Presumably an introduced species.

ARYTAINA Förster, 1848 [PSYLLIDAE]

TYPE SPECIES: *A. genistae* (Latreille, 1804)

A loose and poorly defined genus containing several species which are only distantly related to the European type-species (see Loginova, 1976).

brevigena Crawford, 1919

Type locality—Singapore. *Distribution*—Sabah (BM). *Host plant*—unknown.

flava Crawford, 1919

Type locality—Singapore and Borneo. *Host plant*—unknown.

iolani Crawford, 1919 [Caldwell, 1942: Tuthill, 1964: Miyatake, 1972 a]

Type locality—Philippines, Luzon. *Distribution*—S. Mariana Is., Guam. *Host plant*—unknown. Tuthill (1964) suggests this species may belong in *Insnesia*.

meridionalis Crawford, 1919

Type locality—Indonesia, Tanimbar Is., Larat. *Host plant*—unknown.

pulchra Crawford, 1919 [Crawford, 1920 c]

Type locality—Indonesia, Tanimbar Is., Larat. *Distribution*—Borneo. *Host plant*—unknown.

punctinervis Crawford, 1919

Type locality—Singapore. *Host plant*—unknown.

tuberculata Crawford, 1917 [Crawford, 1919]

Type locality—Philippines, Mindanao. *Host plant*—unknown. Tuthill (1964) suggests this species may belong in *Insnesia*.

uichancoi Braza & Calilung, 1981

Type locality—Philippines, Luzon. *Host plant*—*Dalbergia ferruginea* Roxb. This species appears to belong in *Insnesia*.

variabilis Crawford, 1917 [Crawford, 1919, 1920 c]

Type locality—Philippines, Mindanao, Luzon. *Distribution*—Indonesia, Borneo; Malay Peninsula. *Host plant*—unknown. Enderlein (1921) suggested this species is close to *Auchmerina* End. whereas Tuthill (1964) suggests it may belong in *Insnesia*.

CALOPHYA Löw, 1879 [CARSIDARIDAE]

TYPE SPECIES: *C. rhois* (Löw, 1878)

The majority of described species are eastern Palaearctic, Nearctic or Neotropical and feed on plants belonging to the families Anacardiaceae and Burseraceae.

nigridorsalis Kuwayama, 1908 [Aulmann, 1913: Uye, 1937 a: Miyatake, 1964 b, 1965, 1969 c, 1976: Klimaszewski, 1973]

Type locality—Japan. *Distribution*—Ryukyus Is., Iriomote I. *Host plants*—*Rhus succedanea* L., *R. verniciflua* Stockes, *R. chinensis* Mill., *R. trichocarpa* Miq, *R. ambigua* Lav.

luzonensis Crawford, 1915 [Braza & Calilung, 1981]

Type locality—Philippines, Luzon. *Host plant*—unknown.

CARSIDARA Walker, 1869 [CARSIDARIDAE]

TYPE SPECIES: *C. marginalis* Walker, 1869

A monotypic old world genus. Heslop-Harrison (1960 b) transferred the Neotropical species previously ascribed to this genus into a new genus *Paracarsidara*.

marginalis Walker, 1869 [Scott, 1882: Crawford, 1911: Aulmann, 1913: Crawford 1924 a: Heslop-Harrison, 1960 b]

Dynopsylla minor Crawford, 1915

Thysanogyna minor (Crawford) [Crawford, 1919: Miyatake, 1981]

Eustigma minor (Crawford) [Enderlein, 1921]

Type locality—Indonesia, Sulawesi. *Distribution*—Philippines, Luzon; Japan; Malaya (BM); Hong Kong (BM). *Host plant*—*Firmian simplex* Wright. This species has been much confused and *Dynopsylla minor*, a synonym, has at various times been made the type of both *Thysanogyna* Crawford and *Eustigma* Enderlein. Heslop-

Harrison (1960 a) confuses matters further by stating, without reasons, that *minor* might be distinct from *marginalis*. Miyatake (1981) described a subspecies of *minor* from Japan.

CECIDOTRIOZA Kieffer, 1908 [TRIOZIDAE]

TYPE SPECIES: *C. baccharum* Kieffer, 1908

A small genus close to *Trioza sensu lato*. Species are assigned to this genus both from tropical Asia and Argentina (Hodkinson and White, 1981).

sozanica Boselli, 1930 [Takahashi, 1936]

Type locality—Taiwan. *Host plant—Daphniphyllum glaucescens*.

CEROTRIOZA Crawford, 1918 [TRIOZIDAE]

TYPE SPECIES: *C. bivittata* Crawford, 1918

A small Hawaiian genus close to *Trioza sensu lato*. Crawford (1920 b) transferred several species, previously placed in the genus, to *Leuronota*.

bivittata Crawford, 1918 [Crawford, 1919, 1924 b: Zimmerman, 1948]

Type locality—Hawaiian Is., Oahu. *Distribution*— Hawaii, Maui. *Host plant—Xylosma hawaiiense*.

bridwelli Crawford, 1920 b [Zimmerman, 1948]

Type locality—Hawaiian Is., Oahu. *Host plant*—unknown.

CHINEURA Tuthill, 1964 [CARSIDARIDAE]

TYPE SPECIES: *C. latipennis* Tuthill, 1964

A small genus confined to the Pacific area. It is probably synonymous with *Pseudophacopteron* Enderlein.

alba Yang and Tsay, 1980

Type locality—Taiwan. *Host plant—Canarium album* (Lour.) Racusch.

latipennis Tuthill, 1964

Type locality—S. Mariana Is., Guam. *Host plant*—unknown.

paucivena Tuthill, 1964

Type locality—Caroline Is., Palau. *Host plant*—unknown

CRAWFORDA Caldwell, 1940 [TRIOZIDAE]

TYPE SPECIES: *C. triopsyllina* Caldwell, 1940

A monotypic Hawaiian genus close to *Trioza sensu lato*.

triopsyllina Caldwell, 1940 [Zimmerman, 1948]

Type locality—Hawaiian Is., Molokai. *Host plant—Tetrasplandra* sp.

CTENARYTAINA Ferris and Klyver, 1932 [SPONDYLIASPIDIDAE]

TYPE SPECIES: *C. fuchsiae* (Maskell, 1890)

A small genus with representatives from Australia, New Zealand and the South Pacific Islands (see Tuthill, 1952). *Papiana* Tuthill, 1942 is a synonym.

distincta (Tuthill, 1943 a, 1956 b)

Papiana distincta Tuthill

Type locality—Fiji Is., Lau, Viti Levu (BM). *Host plant*—unknown.

eucalypti (Maskell, 1890) [BM]

Type locality—New Zealand. *Distribution*—Papua New Guinea (BM); Australia; Europe (introd.). *Host plant—Eucalyptus globulus*. Ferris and Klyver (1932) and Tuthill (1952) fully describe the species.

lulla (Tuthill, 1942)

Papiana lulla Tuthill

Type locality—Society Is., Huahine. *Host plant*—unknown.

remota Tuthill 1956 b

Type locality—Marquesas Is. *Host plant*—possibly *Metrosideros collina*.

DIAPHORINA Löw, 1879 [PSYLLIDAE]

TYPE SPECIES: *D. putoni* Löw, 1879

A large homogenous genus typically associated with the warm arid regions of Africa and Asia.

citri Kuwayama, 1908 [Aulmann, 1913: Ramakrishna, 1924: Crawford, 1924 a: Boselli, 1930: Kuwayama, 1931, 1943: Sasaki, 1954: Miyatake, 1964 b, 1965, 1972 a: Orian, 1972: Mathur, 1975: Hodkinson and White, 1981: Burckhardt, 1981]

Euphalerus citri (Kuwayama) [Crawford, 1913, 1917, 1919]

Type locality—Taiwan. *Distribution*—*D. citri* is an important pest of *Citrus* and has been transported around the world. The Commonwealth Institute of Entomology (1974) has published a distribution map. The species is widely distributed throughout the Oriental and Austro-Oriental realms. Sasaki (1954) also records it on Hawaii. Host plants—*Citrus sinensis* (L.) Osbeck, *C. mitis* Blanco., *C. reticulata* (BM), *Murraya paniculata* (L.) Jack, *M. koenigii*. Husain and Nath (1927), Martinez and Wallace (1967) and Pande (1971) should be consulted for details of biology.

DICLIDOPHLEBIA Crawford, 1920 c [CARSIDARIDAE]

TYPE SPECIES: *D. oceanica* (Crawford, 1919)

A small genus with representatives in the Austro-Oriental and Ethiopian faunas. *Diclidophlebia* is a replacement for *Heteroneura*, a *nomen praeocc*. Enderlein (1921) later proposed a further invalid replacement name, *Gyroza*.

oceanica (Crawford, 1919) [Crawford, 1920 c, Heslop-Harrison, 1960 a]

Heteroneura oceanica Crawford

Gyroza oceanica (Crawford) [Enderlein 1921]

Type locality—Philippines, Luzon and Basilan; Singapore. *Distribution*—Indonesia, Borneo. *Host plant*—unknown.

DYNOPSYLLA Crawford, 1913 [CARSIDARIDAE]

TYPE SPECIES: *D. cornuta* Crawford, 1913

A small Oriental-Austro-Oriental genus. Crawford (1925 e) records an Indian species from Brazil (presumably an introduction).

cornuta Crawford, 1913 [Crawford, 1924 a: Enderlein, 1926: Heslop-Harrison, 1960 b: Miyatake, 1971 b: Mathur, 1973, 1975]

Dinopsylla cornuta Crawford [Uichanco, 1919: Houard, 1923]

Type locality—Philippines, Luzon. *Distribution*—Philippines, Palawan; Sarawak (BM). *Host plant*—*Ficus nervosa*.

pinnativena (Enderlein, 1914) [Enderlein, 1921: Crawford, 1924 a: Kuwayama, 1931: Takahashi, 1936: Miyatake, 1965 b: Mathur, 1975]

Sphingocladia pinnativena Enderlein [Enderlein, 1926: Mathur, 1973]

Type locality—Taiwan. *Host plant*—*Ficus nervosa*.

EPIPSYLLA Kuwayama, 1908 [PSYLLIDAE]

TYPE SPECIES: *E. albolineata* Kuwayama, 1908

A small Oriental, Austro-Oriental, Pacific genus which is very close to the central American genus *Mitrapsylla* Crawford (see Hodkinson and White, 1981).

albolineata Kuwayama, 1908 [Aulmann, 1913: Crawford, 1919: Boselli, 1930: Kuwayama, 1931: Tuthill, 1964]

Type locality—Taiwan. *Distribution*—Caroline Is., Palau. *Host plants*—*Mucuna subferruginea* and possibly *Derris* sp.

bilineata Laing, 1922

Type locality—Fiji Is. *Host plant*—unknown.

pulchra Crawford, 1913 [Crawford, 1913, 1917: Braza & Calilung, 1981]

Type locality—Philippines, Luzon. *Distribution*—Philippines, Mindanao; Indonesia, Amboina; New Hebrides (BM). *Host plant*—*Derris elliptica*.

rubrofasciata Kuwayama, 1908 [Aulmann, 1913: Crawford, 1919: Kuwayama, 1931: Takahashi, 1936]

Type locality—Taiwan. *Host plant*—*Gelonium acquoureum*.

EUPHALERUS Schwarz, 1904 [PSYLLIDAE]

TYPE SPECIES: *E. nidifex* Schwarz, 1904

A diverse genus in urgent need of revision. The Old World species differ considerably from the New World species centred around the type, *E. nidifex* (cf. Russell, 1971 and Miyatake, 1973). The Aulmann genus *Euryconus* appears to be a suitable depository for several of the Old World species.

grandis Crawford, 1919

Type locality—Indonesia, Tanimbar Is. and Tual Is. *Host plant*—unknown.

maculosus Crawford, 1919 [Tuthill, 1943 a]

Type locality—Fiji Is., Rewa. *Distribution*—Fiji Is., Viti Levu. *Host plant*—unknown.

EURYCONUS Aulmann, 1912 [PSYLLIDAE]

TYPE SPECIES: *E. enderleini* Aulmann, 1912

A monotypic genus. See discussion under *Euphalerus*.

enderleini Aulmann, 1912

Type locality—New Guinea. *Host plant*—unknown.

GLYCASPIS Taylor, 1960 [SPONDYLIASPIDAE]

TYPE SPECIES: *G. flavilabris* (Froggatt, 1903)

Four species, all belonging to the subgenus *Boreioglycaspis* Moore, 1964 of this large Australian genus, are found in the Austro-Oriental region. *Glycaspis* (*Boreioglycaspis*) species appear to be close to *Peltapaurocephala* Heslop-Harrison and *Spanioneura sensu* Crawford (1925 d).

borneensis Moore, 1964 [Moore, 1970 a, b]

Type locality—Sabah. *Host plant*—unknown.

forcipata (Crawford, 1917) [Moore, 1964, 1970 a, b]

Epipsylla forcipata Crawford [Uichanco, 1921]

Type locality—Philippines, Palawan. *Distribution*—Philippines, Luzon. *Host plant*—unknown.

penangensis Moore, 1964 [Moore, 1970 a, b]
Type locality—Malaya, Penang Is. *Host plant*—unknown.
polymelasma Moore, 1964 [Moore, 1970 a, b]
Type locality—Sabah. *Host plant*—unknown.

HAPLAPHALARA Uichanco, 1921 [APHALARIDAE]
TYPE SPECIES: *H. dahli* (Rübsaamen, 1905)
A small Austro-Oriental genus. Crawford (1925 d) inexplicably synonymized this genus with *Strophingia* Enderlein. Klimaszewski (1973) mistakenly lists it as a synonym of *Aphalaroida* Crawford which for a time was considered synonymous with *Strophingia* (see Hodkinson, 1981).
dahli (Rübsaamen, 1905) [Uichanco, 1921: Heslop-Harrison, 1952]
Aphalara dahli Rübsaamen [Aulmann, 1913]
Strophingia dahli (Rübsaamen) [Crawford, 1925 d]
Type locality—Papua New Guinea, Bismark Archipelago, Philippines. *Distribution*—New Caledonia (BM). *Host plant*—*Thespesia macrophylla* Blume, *T. populnea* (L.) Sal.
durio Heslop-Harrison, 1952 *nom. nud.*
The forewing of this Malayan species was illustrated by Heslop-Harrison but a formal description was not published.
maculata (Crawford, 1919) [Loginova, 1972]
Paurocephala maculata Crawford, 1919
Type locality—Singapore. *Host plant*—unknown.

HEMISCHIZOCRANIUM Tuthill, 1956 a [TRIOZIDAE]
TYPE SPECIES: *H. bessi* Tuthill 1956 a
A small Hawaiian genus.
aloha (Caldwell, 1940) [Tuthill, 1956 a]
Hevaheva aloha Caldwell [Zimmerman, 1948]
Type locality—Hawaiian Is., Kauai. *Host plant*—*Xanthoxylum* sp.
bessi Tuthill, 1956 a
Type locality—Hawaiian Is., Hawaii. *Host plant*—*Fagara dipetala* (Mann) Engler.

HEVAHEVA Kirkaldy, 1902 [TRIOZIDAE]
TYPE SPECIES: *H. perkinsi* Kirkaldy, 1902
An endemic Hawaiian genus.
giffardi Crawford, 1918 [Crawford 1924 b: Zimmerman, 1948]
Type locality—Hawaiian Is., Hawaii. *Host plant*—*Platydesma campanulata*.
hyalina Crawford, 1918 [Zimmerman, 1948]
Type locality—Hawaiian Is., Hawaii. *Host plant*—unknown.
maculata Caldwell, 1940 [Zimmerman, 1948]
Type locality—Hawaiian Is., Kauai. *Host plant*—*Pelea* sp.
minuta Crawford, 1925 a [Zimmerman, 1948]
Type locality—Hawaiian Is., Kauai. *Host plant*—*Pelea* sp.
monticola Kirkaldy, 1908 a [Aulmann, 1913: Crawford, 1918, 1924: Zimmerman, 1948]
Type locality—Hawaiian Is., Oahu. *Host plant*—*Pelea* sp.

perkinsi Kirkaldy, 1902 [Kirkaldy, 1908a: Aulman, 1913: Crawford, 1918, 1924: Zimmerman, 1948]

Type locality—Hawaiian Is., Oahu. *Host plants—Pelea clusiaefolia, P. lydgatei, P. wawraeana.*

silvestris Kirkaldy, 1908a [Aulmann, 1913: Crawford, 1918, 1924b, 1925a: Zimmerman, 1948]

Type locality—Hawaiian Is., Oahu. *Distribution*—Hawaiian Is., Kauai. *Host plant—Pelea rotundifolia.*

swezeyi Crawford, 1928a [Zimmerman, 1948]

Type locality—Hawaiian Is., Maui. *Host plant—Pelea* sp.

HOMOTOMA Guérin-Méneville, 1842 [CARSIDARIDAE]

TYPE SPECIES: *H. ficus* (L., 1758)

A genus, typically associated with plants of the genus *Ficus*, which is broadly distributed throughout the Ethiopian, Palaearctic, Oriental and Austro-Oriental realms. Enderlein (1914, 1921) split off species to become the types of *Psausia*, *Metapsausia* and *Labobrachia*. A recent revision by Miyatake (1974) does not recognize these divisions.

bakeri Crawford, 1915 [Crawford, 1919: Boselli, 1929a: Miyatake, 1974: Braza & Calilung, 1981]

Metapsausia bakeri (Crawford) [Enderlein, 1921: Heslop-Harrison, 1949b]

Type locality—Philippines, Luzon. *Distribution*—Philippines, Mindanao; Malaya, Penang Is. *Host plant—Ficus carnosa* (in BM).

bilineata Crawford, 1917 [Crawford, 1919: Boselli, 1929a: Miyatake, 1974]

Metapsausia bilineata (Crawford) [Enderlein, 1921: Heslop-Harrison, 1949b]

Type locality—Philippines, Luzon; Sarawak (BM). *Distribution*—Thailand. *Host plant—Ficus* sp. (in BM).

gressitti Miyatake, 1974

Type locality—New Guinea. *Host plant*—unknown.

pacifica Crawford, 1915 [Crawford, 1919: Boselli, 1929a: Miyatake, 1974]

Labobrachia pacifica (Crawford) [Enderlein, 1921: Heslop-Harrison, 1949b]

Type locality—Philippines, Luzon. *Host plant*—unknown.

radiata Kuwayama, 1908 [Crawford, 1911: Aulmann, 1913: Boselli, 1929a: Kuwayama, 1931: Uye, 1936a: Yu, 1956: Sasaki, 1954: Miyatake, 1965, 1974: Klimaszewski, 1973]

Psausia radiata Kuwayama [Enderlein, 1914, 1918: Heslop-Harrison, 1949b]

Type locality—Taiwan. *Distribution*—Ryukyu Is., Takara and Okinawa: Japan. *Host plant—Ficus erecta. H. radiata* is an amended name. The species was described as *H. radiatum.*

INSNESIA Tuthill, 1964 [PSYLLIDAE]

TYPE SPECIES: *I. disjuncta* Tuthill, 1964

An homogenous genus distributed throughout the Pacific, Austro-Oriental and Oriental realms. Tuthill (1964) states that *Arytaina tuberculata*, *A. iolani* and *A. meridionalis* may also belong in this genus.

clara (Tuthill, 1942) [Tuthill, 1964: Loginova, 1976]

Ataenia clara Tuthill

Arytaina clara (Tuthill) [Tuthill, 1951]

Type locality—Caroline Is., Ponape and Kusaie. *Host plant*—unknown.

disjunta Tuthill, 1964

Type locality—Caroline Is., Truk. *Distribution*—Fiji Is., Labasa (BM). *Host plant*—unknown.

drypetes Miyatake, 1965 [Miyatake, 1969 a]

Type locality—Ryukyu Is., Iriomote, Okinawa, Miyako, Ishigaki and Amami Oshima. *Host plant*—*Drypetes matsumurae* Kanehira.

extrema (Tuthill, 1951) [Tuthill, 1964: Miyatake, 1972 a: Loginova, 1976]

Arytaina extrema Tuthill

Arytaina iolani Caldwell, 1942

Type locality—S. Mariana Is., Saipan, Tinian, Agiguan and Guam. *Host plant*—possibly *Aglaia* sp.

glabrascutata (Caldwell, 1942) [Tuthill, 1964: Miyatake, 1972 a: Loginova, 1976]

Type locality—S. Mariana Is., Saipan, Rota and Guam: Caroline Atolls, Ulithi. *Host plant*—*Intsia bijuga* (specimens in USNM).

lagunensis Miyatake, 1972 a

Type locality—Philippines, Luzon. *Distribution*—Papua New Guinea (BM). *Host plant*—unknown.

nigrivittatus (Crawford, 1913) [Miyatake, 1972 a]

Euphalerus nigrivittatus Crawford [Crawford, 1919: Enderlein, 1921]

Type locality—Philippines, Luzon. *Distribution*—Philippines, Mindanao and Palawan.

quadrioculata (Laing, 1922) [Loginova, 1976]

Arytaina quadrioculata Laing [Tuthill, 1943 a]

Type locality—Fiji Is., Labasa. *Distribution*—Fiji Is., Viti Levu and Vanua Mbalavu. *Host plant*—unknown.

ISOGONOCERAIA Tuthill, 1964 [PSYLLIDAE]

TYPE SPECIES: *I. venusta* Tuthill, 1964

Originally a monotypic Pacific genus. White and Hodkinson (1980) tentatively added a further South American species.

venusta Tuthill, 1964

Type locality—S. Mariana Is., Tinian and Saipan. *Host plant*—probably *Cynometra* sp.

KUWAYAMA Crawford, 1911 [TRIOZIDAE]

TYPE SPECIES: *K. medicaginis* (Crawford, 1910)

A loosely defined genus with representatives in North and South America and on the Hawaiian Islands. Crawford (1918) regards this as a polyphyletic genus. Enderlein (1926) separated the Hawaiian species into a new genus *Pariaconus* but this has not been recognized by later authors. *Kuwayama* is a replacement name for *Epitrioza* Crawford *nec.* Kuwayama (1910) (See Crawford, 1911).

gracilis Crawford, 1918 [Crawford, 1924 b, 1925 a, 1927 a: Zimmerman, 1948]

Pariaconus gracilis (Crawford) [Enderlein, 1926]

Type locality—Hawaiian Is., Oahu and Molokai. *Distribution*—Hawaiian Is., Maui. *Host plant*—*Metrosideros* sp.

minuta Crawford, 1918 [Crawford, 1924 b: Zimmerman, 1948: Nishida *et al.* 1980]

Pariaconus minuta (Crawford) [Enderlein, 1926]

Type locality—Hawaiian Is., Hawaii and Kauai. *Host plant*—*Metrosideros* sp.

minutura (Caldwell, 1940) [Zimmerman, 1948]

Kuwayama pisonia var *minutura* Caldwell

Type locality—Hawaiian Is., Oahu. *Host plant—Pisonia sandwicensis.*

nigricapita Crawford, 1918 [Crawford, 1924 b, 1925 a, 1927 a: Zimmerman, 1948]

Pariaconus nigricapita (Crawford) [Enderlein, 1926]

Type locality—Hawaiian Is., Hawaii. *Distribution*—Hawaiian Is., Molokai and Lanai. *Host plant—Metrosideros* sp.

pisonia Caldwell, 1940 [Zimmerman, 1948]

Type locality—Hawaiian Is., Oahu. *Host plant—Pisonia sandwicensis.*

tipicola Caldwell, 1940 [Zimmerman, 1948]

Type locality—Hawaiian Is., Oahu. *Host plant—Chrysophyllum* sp.

LEPTOTRIOZA Miyatake, 1972 a [TRIOZIDAE]

TYPE SPECIES: *L. bicolor* (Crawford, 1915)

A monotypic genus separated from the North American genus *Neotriozella* Crawford by Miyatake (1972 a).

bicolor Crawford, 1915 [Miyatake, 1972 a]

Neotriozella bicolor Crawford

Type locality—Philippines, Luzon. *Host plant*—unknown.

LEPTYNOPTERA Crawford, 1919 [CARSIDARIDAE]

TYPE SPECIES: *L. sulfurea* Crawford, 1919

A small Oriental-Pacific genus.

alagari Miyatake, 1971 b

Type locality—Philippines, Palawan. *Host plant—Calophyllum blancoi* Pl. and Tr.

sulfurea Crawford, 1919 [Boselli, 1930: Kuwayama, 1931: Caldwell, 1942: Tuthill, 1951, 1964: Heslop-Harrison, 1960 a: Miyatake, 1964 b, 1971 b: Braza & Calilung, 1981]

Leptynoptera didactyla Laing, 1922

Leptinoptera sulfurea Crawford [Brun & Chazeau, 1980]

Leptynoptera sulfurea var *rubrocincta* Uichanco, 1921 [Takahashi, 1927]

Type locality—Indonesia, Ambon. *Distribution*—Taiwan; Philippines, Luzon; Ryukyu Is., Okinawa, Iriomote, Hatoma; New Caledonia; S. Mariana Is., Guam; Caroline Is., Palau, Yap; Caroline Atolls, Ponape, Kusaie; Fiji Is.; Cook Is., Raratonga, Avatia (BM); Friendly Is., Tongatapu (BM); Papua New Guinea (BM); Chagos Archipelago, Diego Garcia (BM). *Host plant—Calophyllum inophyllum* L.

LEURONOTA Crawford, 1914 [TRIOZIDAE]

TYPE SPECIES: *L. maculata* Crawford, 1910

A loosely defined genus with representatives described from North and South America as well as the Oriental, Austro-Oriental and Pacific region.

ampla Tuthill, 1943 a

Type locality—Fiji Is., Viti Levu. *Host plant*—unknown. Originally designated as *L. magna*, a name preoccupied by *L. magna* Laing. An addenda to Tuthill's paper proposed the replacement name *ampla*.

attenuata Crawford, 1920 c

Type locality—Indonesia, Borneo. *Host plant*—unknown.

calophylli Miyatake, 1972 a

Type locality—Philippines, Palawan. *Host plant*—*Calophyllum blancoi* Pl. and Tr.

corniger (Crawford, 1919) [Crawford, 1920 b]

Cerotrioza corniger Crawford

Type locality—Singapore. *Host plant*—unknown.

microceras (Crawford, 1919) [Crawford, 1920 b, c]

Cerotrioza microceras Crawford

Type locality—Indonesia, Borneo. *Host plant*—unknown.

MACROHOMOTOMA Kuwayama, 1908 [CARSIDARIDAE]

TYPE SPECIES: *M. gladiatum* Kuwayama, 1908

A small genus distributed through the Ethiopian, Oriental, Austro-Oriental and Pacific regions. Members feed on plants of the genus *Ficus*.

apsylloides (Crawford, 1919) [Crawford, 1925 c: Loginova, 1972]

Pauropsylla apsylloides Crawford [Crawford, 1920 c: Heslop-Harrison, 1958, 1959]

Type locality—Indonesia, Tanimbar Is.; Macao and Hawaii. Oahu? (one damaged ♀). *Distribution*—Indonesia, Borneo. *Host plant*—unknown.

gladiatum Kuwayama, 1908 [Aulmann, 1913: Maki, 1915: Crawford, 1911, 1914, 1925 c, 1928 c: Enderlein, 1914, 1921: Boselli, 1930: Kuwayama, 1931: Miyatake, 1965]

Type locality—Taiwan. *Distribution*—Indonesia, Sumatra; Ryukyu Is., Miyako. *Host plant*—*Ficus retusa*.

sandakana Crawford, 1925 c

Type locality—Indonesia, Borneo. *Host plant*—unknown.

striata Crawford, 1925 c [Ramakrishna, 1924: Miyatake, 1965: Mathur, 1975]

Type locality—India. *Distribution*—Ryukyu Is., Ishigaki; Hong Kong. *Host plant*—*Ficus retusa* L.

williamsi Crawford, 1925 c

Type locality—Philippines, Luzon. *Host plant*—*Ficus clementis*.

MEGATRIOZA—see ***TRIOZA***

MESOHOMOTOMA Kuwayama, 1908 [CARSIDARIDAE]

TYPE SPECIES: *M. camphorae* Kuwayama, 1908

A small genus distributed throughout the Oriental, Austro-Oriental and Pacific realms. Klyver (1935) stated that specimens of *M. hibisci* collected from Tahiti include the complete range of colour variation on which Crawford (1925 b) based his key to the four known species. Miyatake (1971 b) states the genus is in urgent need of revision.

camphorae Kuwayama, 1908 [Crawford, 1911, 1925 b, 1927 b, 1928 b: Aulmann, 1913: Kuwayama, 1931, 1943: Takahashi, 1936: Sasaki, 1954: Miyatake, 1964 b, 1965 a, b, 1971 b]

Type locality—Taiwan. *Distribution*—Philippines, Luzon; S. China; Ryukyu Is., Okinawa, Iriomote, Ishigaki, Okinoerabu, Miyako, Ogasawara, Amami-Oshima; Samoa Is., Apia, Opolu, Pago Pago; Fiji Is., Namaku, Oneata, Mothe, Veti-Levu. *Host plants*—*Hibiscus mutabilis* L., *H. tiliaceus* L., *Annamomum camphora*,

Thespesia populaea, *Paritium tiliaefolium*. This list probably represents the taxonomic confusion within the genus.

hibisci (Froggatt, 1901) [Crawford, 1920 c, 1925 b: Klyver, 1935: Caldwell, 1942: Tuthill, 1942, 1951, 1964: Tuthill and Taylor, 1955: Brun & Chazeau, 1980]

Tyora hibisci Froggatt

Udamostigma hibisci (Froggatt) [Enderlein, 1910: Aulmann, 1913]

Type locality—Australia. *Distribution*—New Caledonia; Society Is., Raieta, Tahiti, Arihiri, Moorea, Bora Bora (BM), Austral Is., Raivavae, Tubuai; Rapa Is.; Solomon Is.; Ryukyu Is., Okinawa; Fiji Is.; Caroline Is., Palau, Yap; Caroline Atolls, Ponape, Kusaie; N. and S. Mariana Is.; Guam; Bonin Is.; Volcano Is.; Indonesia, Borneo; Philippines, Luzon (BM); Cook Is. (BM); Tonga Is. (BM); Bismark Archipelago (BM); New Hebrides (BM); Gilbert & Ellice Is. (BM); Chagos Archipelago, Diego Garcia (BM); Malaya (BM). *Host plant—Hibiscus tiliaceus*, *H. rosa-sinensis*.

lineaticollis Enderlein, 1914 [Crawford, 1925 b: Takahashi, 1927: Boselli, 1930: Kuwayama, 1931: Braza & Calilung, 1981]

Type locality—Taiwan. *Distribution*—Philippines, Luzon. *Host plant—Urena lobata* var *tomentosa*.

lutheri (Enderlein, 1918) [Crawford, 1925 b, 1927 b: Orian, 1972: Mathur, 1975]

Udamostigma lutheri Enderlein

Tyora indica Crawford, 1919

Tyoria indica Crawford [Uichanco, 1921]

Type locality—Taiwan. *Distribution*—Philippines, Luzon, Mindanao; India; Indonesia, Ambon Is.; Mauritius? *Host plant—Urena lobata*.

METAPSYLLA Kuwayama, 1908 [PSYLLIDAE]

TYPE SPECIES: *M. nigra* Kuwayama, 1908

A small genus confined to the eastern Oriental region, Japan and Taiwan.

granulosa Yu, 1956 [Miyatake, 1963]

Type locality—China. *Distribution*—Taiwan. *Host plant*—unknown.

marginata Kuwayama, 1908 [Aulmann, 1913: Kuwayama, 1931: Yu, 1956: Miyatake, 1963]

Type locality—Taiwan. *Host plant*— unknown. Miyatake (1963) suggests that this species belongs in *Euphalerus*.

MICROCEROPSYLLA Boselli, 1930 [CARSIDARIDAE]

TYPE SPECIES: *M. nigra* (Crawford, 1919)

A small Oriental/Austro-Oriental genus which for a long time was confused with *Pauropsylla* Rubsaamen (see Loginova, 1972).

brevicornis (Crawford, 1919) [Heslop-Harrison, 1948, 1960 a: Loginova, 1972]

Pauropsylla brevicornis Crawford [Mathur, 1975]

Type locality—Indonesia, Tanimbar Is. *Distribution*—India. *Host plant—Mangifera indica* L.

nigra (Crawford, 1919) [Boselli, 1930: Heslop-Harrison, 1948: Miyatake 1972 a: Loginova, 1972]

Pauropsylla nigra Crawford [Ramakrishna, 1924: Kuwayama, 1931: Miyatake, 1971 b: Mathur, 1975]

Type locality—India. *Distribution*—Philippines, Palawan; Taiwan. *Host plant—Mangifera indica* L.

verticis (Crawford, 1919) [Heslop-Harrison, 1948: Loginova, 1972]

Pauropsylla verticis Crawford

Type locality—Indonesia, Tanimbar Is. *Distribution*—Friendly Is., Tonga, Vava'u (BM). *Host plant*—unknown.

MYCOPSYLLA Froggatt, 1901 [CARSIDARIDAE]

TYPE SPECIES: *M. fici* (Tryon, 1894)

A small genus, related to *Dynopsylla*, *Macrohomotoma* and *Homotoma*, with representatives in Australia, India and New Guinea.

fici (Tryon, 1894) [Ftoggatt, 1901: Aulmann, 1913: Tuthill and Taylor, 1955: Mathur, 1975]

Psylla fici Tryon

Type locality—Australia. *Distribution*—New Guinea (BM). *Host plant—Ficus macrophylla*.

NESIOPE Kirkaldy, 1908 b [CARSIDARIDAE]

TYPE SPECIES: *N. ornata* Kirkaldy, 1908 b

A genus of uncertain status which may be synonymous with *Tyora* Walker, 1869, the type specimen of which is headless. Crawford (1917) described a further genus *Carsidaroida* which he later synonymized with *Nesiope* (Crawford, 1919). Subsequently (Crawford, 1920 c), he regarded *Tyora* as a synonym of *Nesiope* but later still resurrected *Tyora* for a single species from Samoa (Crawford, 1927 b, 1928 b). Tuthill (1964) and Mathur (1973, 1975) comment on the probable synonymies but continue to recognize *Nesiope* as a distinct genus. As presently constituted, *Nesiope* has representatives in the Oriental, Austro-Oriental and Pacific realms.

heterocephala (Crawford, 1917) [Crawford, 1919, 1920 c]

Carsidaroida heterocephala Crawford

Nesiope heterocephala var *intermedia* [Crawford, 1919]

Type locality—Philippines, Luzon. *Distribution*—Indonesia, Sulawesi, Ambon Is., Java, Tanimbar Is.; Singapore; Malaya (BM). *Host plant*—Specimens of var. *intermedia* in (BM) collected from *Sterculia urceolata*.

ornata Kirkaldy, 1908 b [Aulmann, 1913: Laing, 1922: Crawford, 1920 c: Tuthill, 1964: Miyatake, 1965]

Tyora ornata (Kirkaldy) [Caldwell, 1942: Crawford, 1919: Tuthill, 1951]

Type locality—Fiji Is. *Distribution*—Indonesia, Borneo; S. Mariana Is., Guam; Caroline Is., Truk, Ponape; Ryukyu Is., Ishigaki and Iriomote. *Host plant—Heritiera littoralis* Ait.

PARAPAUROCEPHALA Heslop-Harrison, 1952 [APHALARIDAE]

TYPE SPECIES: *P. longicella* (Tuthill, 1943)

Heslop-Harrison (1952) failed to provide a detailed description of this monotypic genus which he separated from *Paurocephala* Crawford. However, his designation of a type-species is sufficient to indicate a valid genus.

longicella (Tuthill, 1943 a) [Heslop-Harrison, 1952]

Paurocephala longicella Tuthill

Type locality—Fiji Is., Viti Levu. *Distribution*—New Caledonia (BM); Papua New Guinea (BM). *Host plant—Guioa* sp.

PAUROCEPHALA Crawford, 1913 [APHALARIDAE]

TYPE SPECIES: *P. psylloptera* Crawford, 1913

A large genus distributed throughout the Old World tropics. Species recorded from South America probably belong to a separate genus (see Hodkinson and White, 1981). The genus has been revised by Loginova (1972).

adelaidae Braza & Calilung, 1981

Type locality—Philippines, Luzon. *Host plant—Diplodiscus paniculatus*. This appears to be a species of *Haplaphalara*.

artocarpae Braza & Calilung, 1981

Type locality—Philippines, Luzon. *Host plant—Artocarpus blancoi* (Elm.) Merr.

brevicephala (Crawford, 1917) [Crawford, 1919: Miyatake, 1971 b: Loginova, 1972]

Pauropsylla brevicephala Crawford

Syncoptozus brevicephala (Crawford) [Enderlein, 1921]

Type locality—Philippines, Mindanao. *Distribution*—Philippines, Luzon and Palawan. *Host plant—Pterospermum niveum* Vid.

conchaiensis Boselli, 1929 b [Takahashi, 1936: Sasaki, 1954: Miyatake, 1964 a, 1965, 1976: Klimaszewski, 1970, 1973: Loginova, 1972]

Paurocephala bifasciata Kuwayama, 1931 [Uye, 1937 b]

Type locality—China. *Distribution*—Taiwan; Japan; Vietnam; Ryukyu Is., Ishigaki and Iriomote. *Host plants—Ficus erecta* var *beecheyama*, *F. pumila*, *F. foveolata*. Klimaszewski (1970) established this species as the type of a subgenus *Thoracocorna* but Loginova (1972) regards this as unjustified.

kleinhofiae Uichanco, 1921 [Loginova, 1972]

Type locality—Philippines, Luzon. *Host plant—Kleinhofia hospita* L.

minuta Crawford, 1919 [Loginova, 1972: Mathur, 1975]

Type locality—Philippines, Luzon. *Distribution*—Philippines, Mindanao (BM): India. *Host plant—Kydia calycina* Roxb.

psylloptera Crawford, 1913 [Crawford, 1915, 1919, 1920 a, c, 1924 a, 1928 c: Uichanco, 1921: Laing, 1922: Ramakrishna, 1924: Kuwayama, 1931, 1943: Takahashi, 1936: Sasaki, 1954: Miyatake, 1964 b, 1965, 1971 b: Heslop-Harrison, 1952: Loginova, 1972: Mathur, 1975: Braza & Calilung, 1981]

Paurocephala psylloptera var *setifera* Crawford, 1913 [Crawford, 1919: Loginova, 1972: Braza & Calilung, 1981]

Paurocephala psylloptera var *maculipennis* Uichanco, 1921 [Crawford, 1919: Laing, 1922: Braza & Calilung, 1981]

Agonoscena sauteri Enderlein, 1914

Type locality—Philippines, Luzon. *Distribution*—Philippines, Mindanao, Palawan; Indonesia, Borneo, Sumatra, Tanimbar Is., Larat Is.; Singapore; India; Ceylon; Taiwan; Ryukyu Is., Iriomote, Ishigaka, Amami-Oshima; Fiji Is.; Thailand (BM). *Host plants—Ficus notata*, *F. ulmifolia*, *F. aterrima*, *F. nota* Merrill, *F. hispida*, *F. asperrima*, *F. repondifolia*, *F. ninahassae*, *F. odorata*, *F. gul*, *Trema orientalis* Blume, *Morus* sp., *Columbia serratifolia* DC. The wide geographical distribution and range of host plants suggests that this may be a species complex.

wilderi Crawford, 1927 b [Crawford, 1928 b: Loginova, 1972]

Type locality—Samoa Is., Tau, Manua Group and Tutuila. *Host plant—Ficus* sp.

PAUROPSYLLA Rübsaamen, 1899 [CARSIDARIDAE]

TYPE SPECIES: *P. udei* Rübsaamen, 1899

A broadly distributed genus occurring throughout the tropics. Several species

originally described in this genus have been transferred to *Microceropsylla* Boselli, *Pelmatobrachia* Enderlein, *Pseudophacopteron* Enderlein or *Sympauropsylla* Enderlein (see Loginova, 1972). Most species are found on *Ficus*.

deflexa Uichanco, 1919 [Houard, 1922: Loginova, 1972]

Type locality—Philippines. *Host plant*—*Ficus ulmifolia*. This species was described from a gall.

orientalis (Crawford, 1915) [Loginova, 1972]

Paurocephala orientalis Crawford [Crawford, 1919]

Strophingia orientalis (Crawford) [Crawford, 1925 d]

Type locality—Philippines, Luzon. *Host plant*—unknown.

udei Rübsaamen, 1899 [Kieffer, 1905: Aulmann, 1913: Crawford, 1919, 1920 c, 1928 c: Enderlein, 1921; Uichanco, 1921: Houard, 1923: Boselli, 1930: Laing, 1930: Heslop-Harrison, 1961 a: Loginova, 1972: Braza & Calilung, 1981]

Pauropsylla bakeri Crawford, 1915

Pauropsylla montana Uichanco, 1919 [Houard, 1922]

Type locality—Indonesia, Sumatra. *Distribution*—Indonesia, Borneo, Sumatra, Java; Singapore; Malaya, Penang; Philippines, Luzon; Hong Kong (BM); Assam (BM). *Host plants*—*Ficus variegata* Blume., *F. latensi* Elmer.

PAUROTRIOZANA Caldwell, 1940 [TRIOZIDAE]

TYPE SPECIES: *P. adaptata* Caldwell, 1940

A monotypic Hawaiian genus close to *Hevahevа* Kirkaldy.

adaptata Caldwell, 1940 [Zimmerman, 1948]

Type locality—Hawaiian Is., Oahu. *Host plant*—*Cryptocarya* sp.

PELTAPAUROCEPHALA Heslop-Harrison, 1952 [FAMILY UNCERTAIN]

TYPE SPECIES: *P. conigera* (Crawford, 1919)

Heslop-Harrison (1952) failed to provide a detailed description of this monotypic genus, the type-species of which had previously been placed in both *Paurocephala* and *Spanioneura*. However, his designation of a type species is sufficient to indicate a valid genus. See also the discussion under *Glycaspis*.

conigera (Crawford, 1919)

Paurocephala conigera Crawford

Spanioneura conigera (Crawford) [Crawford, 1925 d: Loginova, 1972]

Type locality—Indonesia, Ambon Is. *Host plant*—unknown.

PELMATOBRACHIA Enderlein, 1921 [CARSIDARIDAE]

TYPE SPECIES: *P. spondiasae* (Crawford, 1915)

Miyatake (1971 b) established *Neocalophya*, a subgenus of *Calophya*, to include a species from the Philippines. This species belongs in *Pelmatobrachia*.

buchananiae (Miyatake, 1971 b) comb. nov.

Calophya (*Neocalophya*) *buchananiae* Miyatake

Type locality—Philippines, Palawan. *Host plant*—*Buchanania arborescens* Blm.

PSEUDOPHACOPTERON Enderlein, 1921 [CARSIDARIDAE]

TYPE SPECIES: *P. tuberculata* Crawford, 1912)

A distinctive genus distributed throughout the tropics. Its closest relatives are *Chineura* and the Neotropical genus *Phacosemoides* Lima and Guitton

(see Hodkinson and White, 1973). Capener (1973) erroneously gives the type species as *P. zimmermani* Aulmann, presumably because Heslop-Harrison (1960 a) suggested that *tuberculata* and *zimmermani* might be synonymous.

flocossa (Crawford, 1915) [Loginova, 1972]

Pauropsylla flocossa Crawford [Crawford, 1919: Ramakrishna, 1924]

Type locality—Ceylon. *Distribution*—S. Mariana Is., Guam? (specimens in USNM); Philippines, Mindanao (BM). *Host plant*—*Aylaia roxburghiana*.

tuberculata (Crawford, 1912) [Enderlein, 1921: Boselli, 1930: Heslop-Harrison, 1960 a: Loginova, 1972]

Pauropsylla tuberculata Crawford [Uichanco, 1919, 1921: Ramakrishna, 1924: Crawford, 1919: Houard, 1923: Mani, 1935: Heslop-Harrison, 1958: Rahman, 1932: Mathur, 1975: Braza & Calilung, 1981]

Type locality—India. *Distribution*—Burma: Thailand: Malaya: Indonesia, Java and Tanimbar Is.: Philippines, Luzon. *Host plant*—*Alstonia scholaris* R. Br.

PSEUDOTRIOZA Miyatake, 1972 a [TRIOZIDAE]

TYPE SPECIES: *P. hiurai* Miyatake, 1972 a

A monotypic genus close to *Trioza*, *Paratrioza* and *Kuwayama*.

hiurai Miyatake, 1972 a

Type locality—Philippines, Palawan. *Host plant*—probably *Buchanania* sp.

PSYLLA Geoffroy, 1762 [PSYLLIDAE]

TYPE SPECIES: *P. alni* (Linnaeus, 1758)

As presently constituted this is a large, diverse genus. However, it is likely that many of the species listed below would fall within the restricted definition of the genus as currently employed by some European workers (see Klimaszewski, 1975: Loginova, 1978: Burckhardt, 1979).

amakusensis Kuwayama, 1939 [Miyatake, 1963, 1964 b, 1965: Sasaki, 1954: Klimaszewski, 1973]

Type locality—Japan. *Distribution*—Ryukyu Is., Iriomote and Ishigaki. *Host plant*—unknown.

aranetae Miyatake, 1972 a

Type locality—Philippines, Mindanao. *Host plant*—unknown.

arisana Kuwayama, 1908 [Aulmann, 1913: Crawford, 1919: Kuwayama, 1931: Miyatake, 1965]

Type locality—Taiwan. *Host plant*—unknown.

bakeri Crawford, 1919 [Miyatake, 1972 a]

Type locality—Philippines, Luzon. *Host plant*—unknown.

cajanae Braza & Calilung, 1981

Type locality—Philippines, Luzon. *Host plant*—*Cajanus cajan* Linn. This species is probably referable to *Acizzia*.

coccinea Kuwayama, 1908 [Aulmann, 1913: Crawford, 1919: Kuwayama, 1931: Takahashi, 1936: Sasaki, 1938, 1954: Miyatake, 1964 a, c, 1965, 1966, 1969 c, 1971 a, 1976: Baba and Miyatake, 1971: Klimaszewski, 1973]

Psylla ceccinla Kuwayama [Shinji, 1949]

Type locality—Japan. *Distribution*—Taiwan: Korea: Ryukyu Is., Amami-Oshima. *Host plants*—*Akebia quinata* Decne, *A. trifoliata* Koidz and *Stauntonia hexaphylla* Decne.

colorada Crawford, 1917 [Crawford, 1919: Braza & Calilung, 1981]

Type locality—Philippines, Luzon. *Host plant*—unknown.

compta Crawford, 1919

Type locality—Fiji Is. *Host plant*—unknown.

crenata Crawford, 1917 [Crawford, 1919]

Type locality—Philippines, Mindanao. *Host plant*—unknown.

dalbergiae Miyatake, 1972 a

Type locality—Philippines, Mindanao. *Distribution*—Philippines, Luzon. *Host plant*—*Dalbergia* sp. A species close to *Insnesia* (Miyatake, 1972).

derricola Miyatake, 1972 a

Type locality—Philippines, Palawan. *Host plant*—*Derris cebuensis* Merr. A species close to *Insnesia* (Miyatake, 1972 a).

evodiae Miyatake, 1965

Type locality—Ryukyu Is., Iriomote and Ishigaki. *Host plant*—*Evodia glauca* Micq.

fulguralis Kuwayama, 1908 [Aulmann, 1913: Kuwayama, 1943: Sasaki, 1954: Miyatake, 1963, 1964 a, b, 1965, 1966, 1972 a: Baba and Miyatake, 1971: Klimaszewski, 1973]

Type locality—Japan. *Distribution*—Philippines, Mindanao; Taiwan; Ryukyu Is., Okinawa, Ishigaki, Amami-Oshima. *Host plant*—*Eleagnus glabra* Thunb.

fumosa Crawford, 1919 [Crawford, 1920 c]

Type locality—Indonesia, Borneo. *Host plant*—unknown.

kiushuensis Kuwayama, 1908 [Aulmann, 1913: Crawford, 1919: Kuwayama, 1931: Sasaki, 1954: Miyatake, 1964 a, c, 1965 b, 1976: Klimaszewski, 1973]

Type locality—Taiwan and Japan. *Host plant*—*Eleagnus pungens*, *E. macrophylla*.

leprosa Crawford, 1919

Type locality—Philippines, Basilan. *Host plant*—unknown.

muiri Crawford, 1919 [Miyatake, 1972 a]

Type locality—Indonesia, Tanimbar Is., Larat Is. and Ambon Is. *Host plant*—unknown.

satsumensis Kuwayama, 1908 [Aulmann, 1913: Sasaki, 1954: Miyatake, 1963, 1964 b, 1965, 1966, 1976: Klimaszewski, 1973]

Type locality—Japan. *Distribution*—Ryukyu Is., Okinawa, Iriomote, Miyako and Amami-Oshima. *Host plants*—*Raphiolepis hiiranensis* Kanehira, *R. umbellata* Makiro var *mertensii*.

simlae Crawford, 1912 [Uichanco, 1921]

Type locality—India. *Distribution*—Uichanco records this Himalayan species from Luzon in the Philippines on the basis of a single female. The record is unlikely to be correct [see also Mathur, 1975]. *Host plant*—unknown.

spadica Kuwayama, 1908 [Aulmann, 1913: Crawford, 1919: Kuwayama, 1931]

Type locality—Taiwan. *Host plant*—unknown.

tobirae Miyatake, 1964 c [Miyatake, 1964 b, 1965, 1966, 1976: Klimaszewski, 1973]

Type locality—Japan and Ryukyu Is., Iriomote. *Distribution*—Ryukyu Is., Ishigaki, Okinawa, Amami-Oshima. *Host plant*—*Pittosporum tobira* Ait.

toroenensis Kuwayama, 1908 [Aulmann, 1913: Crawford, 1919: Boselli, 1930: Kuwayama, 1931: Miyatake, 1964 a, c: Klimaszewski, 1973]

Type locality—Taiwan. *Distribution*—Japan. *Host plant*—*Hedera rhombea*.

tripunctata Kuwayama, 1908 [Crawford, 1911, 1919, 1920a: Aulmann, 1913: Klimaszewski, 1973]

Psylla kuwayamai Zacher, 1913 [Kuwayama, 1931]

Type locality—Taiwan. *Host plant—Litsea glauca.*

vaccinii Miyatake, 1964 [Miyatake, 1965, 1976: Klimaszewski, 1973: Loginova, 1978]

Type locality—Japan. *Distribution*—Ryukyu Is., Okinawa. *Host plant—Vaccinium bracteatum* Thumb.

RHINOPSYLLA Riley, 1885 [TRIOZIDAE]

TYPE SPECIES: *R. schwarzii* Riley, 1885

A loosely defined genus with representatives in the Oriental, Austro-Oriental, Nearctic and Neotropical faunas. Members of this genus appear to possess both Triozid and Carsidarid characters.

distincta Crawford, 1917

Type locality—Philippines, Luzon. *Host plant*—unknown.

takahashii Boselli, 1930 [Miyatake, 1965b, 1972]

Rhynopsylla takahashii Boselli [Takahashi, 1936]

Type locality—Taiwan. *Host plant—Senecio taiwanensis.*

SPANIONEURA Förster, 1848 [PSYLLIDAE]

TYPE SPECIES: *S. fonscolombii* Förster, 1848

A single Austro-Oriental species is currently referred to this otherwise Palaearctic genus.

quadrimaculata Crawford, 1925d [Miyatake, 1971b: Braza & Calilung, 1981]

Type locality—Philippines, Mindanao. *Distribution*—Philippines, Luzon. *Host plant—Pterocarpus indicus* Willd.

STENOPSYLLA Kuwayama, 1910 [TRIOZIDAE]

TYPE SPECIES: *S. nigricornis* Kuwayama, 1910

A small Oriental, Austro-Oriental genus related to *Trioza*.

bakeri Crawford, 1925d

Type locality—Philippines, Mindanao. *Host plant*—unknown.

longicornis Crawford, 1919 [Crawford, 1925d]

Type locality—Philippines, Luzon. *Distribution*—Malaya (BM). *Host plant*—unknown.

nigricornis Kuwayama, 1910 [Aulmann, 1913: Crawford, 1925d: Kuwayama, 1931: Takahashi, 1936: Sasaki, 1954: Yu, 1956: Miyatake, 1964a, 1976]

Type locality—Taiwan. *Distribution*—Japan. *Host plants—Clerodendron trichotomum, Symplocos lucida* and *S. glauca.*

occipitalis Yu, 1956 [Miyatake, 1964a, 1965]

Type locality—Taiwan. *Distribution*—Ryukyu Is., Iriomote and Ishigaki. *Host plants—Ardisia cornudentata* Nakai and *Symplocos sozanensis* Hayata.

proboscidaria Yu, 1956 [Miyatake, 1964b, 1965]

Type locality—China. *Distribution*—Ryukyu Is., Iriomote and Amami-Oshima. *Host plant—Vaccinium wrightii* A. Gray.

SWEZEYANA Caldwell, 1940 [TRIOZIDAE]

TYPE SPECIES: *S. elongagena* Caldwell, 1940

A small endemic Hawaiian genus.

elongagena Caldwell, 1940 [Zimmerman, 1948: Tuthill, 1966]

Type locality—Hawaiian Is., Maui and Kauai. *Distribution*—Hawaiian Is., Awahi. *Host plant*—*Sideroxylon* sp.

reticulata Caldwell, 1940 [Zimmerman, 1948: Tuthill, 1966]

Type locality—Hawaiian Is., Kauai. *Distribution*—Hawaiian Is., Awahi and Maui. *Host plant*—*Sideroxylon* sp.

SYMPAUROPSYLLA Enderlein, 1921 [CARSIDARIDAE]

TYPE SPECIES: *S. trizoptera* (Crawford, 1913)

A small Oriental, Austro-Oriental, Pacific genus which for a long time was confused with *Pauropsylla* (see Loginova, 1972).

trizoptera (Crawford, 1913) [Boselli, 1930: Miyatake, 1972 a: Loginova, 1972]

Pauropsylla trizoptera Crawford [Crawford, 1919: Enderlein, 1921: Uichanco, 1921: Tuthill, 1943 a: Braza & Calilung, 1981: Heslop-Harrison, 1958: Miyatake, 1964 b, 1965, 1971 b]

Type locality—Philippines, Luzon. *Distribution*—Philippines, Mindanao (BM); Indonesia, Java; Fiji Is., Viti Levu; Ryukyu Is., Ishigaki, Okinawa, Iriomote. *Host plant*—*Ficus ulmifolia*. Specimens from Fiji differ slightly from the type description (see Tuthill, 1943 a).

TENAPHALARA Kuwayama, 1908 [CARSIDARIDAE]

TYPE SPECIES: *T. acutipennis* Kuwayama, 1908

A small Oriental, Austro-Oriental genus in urgent need of revision.

acutipennis Kuwayama, 1908 [Crawford, 1911, 1919: Aulmann, 1913: Ramakrishna, 1924: Boselli, 1930: Kuwayama, 1931: Mathur, 1975]

Tenaphalara elongata Crawford, 1912

Type locality—Taiwan. *Distribution*—India; Bangladesh (BM); Philippines, Luzon. *Host plants*—*Sterculia foetida*, *Bombax ceiba* L.

confluens Yu, 1956

Type locality—Taiwan. *Host plant*—*Palaquium formosanum* Hayata.

fascipennis (Crawford, 1917) [Crawford, 1919: Miyatake, 1971 b]

Strongylocephala fascipennis Crawford

Type locality—Philippines, Luzon. *Distribution*—Philippines, Mindanao. *Host plant*—unknown.

juliana Crawford, 1919 [Crawford, 1920 c]

Type locality—Indonesia, Borneo. *Host plant*—unknown.

malayensis Crawford, 1919 [Crawford, 1928 c: Laing, 1930: Braza & Calilung, 1981]

Type locality—Malaya, Penang; Singapore. *Distribution*—Indonesia, Java and Sumatra; Philippines, Luzon (BM); Thailand (BMNH). *Host plant*—*Durio zibethinus* Murr. This species is close to *Protyora* from Australia (see Tuthill and Taylor, 1955).

striata Crawford, 1919 [Miyatake, 1972 a]

Type locality—Singapore. *Host plant*—unknown.

triozipennis Crawford, 1919 [Miyatake, 1972 a]

Type locality—Singapore. *Host plant*—unknown.

umalii Miyatake, 1972 a

Type locality—Philippines, Luzon. *Host plant*—unknown.

TINGIDIFORMA Heslop-Harrison, 1951, 1952 [??????]

A nomen nudum. Erected for 2 undescribed species from Indo-Malaya.

TOGEPSYLLA Kuwayama, 1931 [CARSIDARIDAE]

TYPE SPECIES: *T. takahashii* Kuwayama, 1931

A small but distinctive Oriental genus of obscure relationship.

takahashii Kuwayama, 1931 [Takahashi, 1936: Miyatake, 1970]

Type locality—Taiwan. *Host plants—Lindera communis, L. oldhami.*

TRICHOCHERMES Kirkaldy, 1904 [TRIOZIDAE]

TYPE SPECIES: *T. walkeri* (Förster, 1848)

A small genus with representatives in the Palaearctic, Ethiopian and Oriental realms. The species listed below appear to be distantly related to the type. *Trichochermes* is a replacement name for *Trichopsylla* Thomson, 1877 (see Kirkaldy, 1904).

bicolor Kuwayama, 1910 [Aulmann, 1913: Takahashi, 1927: Kuwayama, 1931: Sasaki, 1954: Miyatake, 1964 a, 1965 b, 1969 c, 1976: Klimaszewski, 1973: Baba and Miyatake, 1971]

Trioza bicolor Kuwayama [Crawford, 1919]

Type locality—Japan and Taiwan. *Host plants—Ilex purpurea, I. oldhami, I. integra.*

hyalina Kuwayama, 1910 [Aulmann, 1913: Kuwayama, 1931]

Trioza hyalina Kuwayama [Crawford, 1919]

Type locality—Taiwan. *Host plant*—unknown.

TRIGONON Crawford, 1920 c [PSYLLIDAE]

TYPE SPECIES: *T. longicornis* (Crawford, 1919)

A small Austro-Oriental genus which has possibly been introduced into Hawaii.

longicornis (Crawford, 1919) [Crawford, 1920 c: Heslop-Harrison, 1952: Tuthill, 1964]

Hetropsylla longicornis Crawford

Type locality—Indonesia, Tanimbar Is. and Ambon Is. *Distribution*—Indonesia, Larat; Caroline Is., Palau and Yap; Papua New Guinea (BM); Hawaii? (specimens in USNM). *Host plant*—unknown.

pacificum Crawford, 1920 c [Heslop-Harrison, 1952]

Type locality—Indonesia, Borneo. *Host plant*—unknown.

TRIOZA Förster, 1848 [TRIOZIDAE]

TYPE SPECIES: *T. urticae* (Linnaeus, 1758)

This genus was originally established to include European species but has subsequently been expanded to accommodate species from all over the world. In consequence it has become a dumping ground for a variety of species of uncertain relationships. Recently European authors have begun to split the genus into smaller groupings (e.g. Klimaszewski, 1975). In the Old World tropics is a group of species which have variously been ascribed to *Megatrioza* Crawford or *Phylloplecta* Riley. Riley (1883) erected *Phylloplecta* with Trioza [*Psylla*] *tripunctata* Fitch as type (see also Zacher, 1913). Later Crawford (1915) established *Megatrioza* with *M. armata* as type. Crawford (1920 a) stated that *Phylloplecta* cannot stand as *tripunctata* is clearly a *Trioza*. However, Ferris (1926) observed that Crawford referred *Trioza diospyri*, a species congeneric with *tripunctata*, to *Megatrioza* and concluded that *Megatrioza*

was a synonym of *Phylloplecta*, a view supported by Laing (1930). Unfortunately Ferris repeatedly misspelt the name of *Phylloplecta* as *Phyllopecta*. Tuthill (1943 b) dismissed *Phylloplecta* as a *nomen nudum*, a view which is unjustified as Riley's description contains sufficient biological information to indicate the species on which the genus is based. Later authors (e.g. Tuthill, 1964, Mathur, 1975) treat *Megatrioza/Phylloplecta* as a sub-group or sub-genus of *Trioza sensu lato* and this has been followed below.

Phylloplecta/Megatrioza group

armata (Crawford, 1915) as *Megatrioza* [Crawford, 1919]

Megatrioza armata var *ochreata* Crawford, 1919

Type locality—Philippines, Mindanao. *Distribution*, Indonesia, Borneo; Singapore. *Host plant*—unknown.

asiatica (Crawford, 1915) as *Trioza* [Crawford, 1919, 1920 c, 1927 b, 1928 b]

Type locality—Philippines, Mindanao. *Distribution*—Samoa, Tutuila, Indonesia, Borneo. *Host plant*—unknown.

banksi (Uichanco, 1921) as *Megatrioza*

Type locality—Philippines, Mindanao. *Host plant*—unknown.

bryani (Crawford, 1928 b) as *Megatrioza*

Type locality—Fiji Is., Aiwa. *Host plant*—unknown.

catillus Tuthill, 1964, as *Trioza*

Type locality—S. Mariana Is., Saipan. *Host plant*—unknown.

concava (Tuthill, 1943 a) as *Megatrioza*

Type locality—Fiji Is., Vanua Mbalavu. *Host plant*—unknown.

eugenoides Crawford, 1917, as *Trioza* [Mathur, 1975]

Megatrioza eugenoides (Crawford) [Crawford, 1919, 1920 d: Ramakrishna, 1924]

Type locality—Philippines, Mindanao and Butuan. *Distribution*—Indonesia, Borneo; India; Malaya (BM). *Host plant*—unknown.

fulgidiceps Tuthill, 1964, as *Trioza*

Type locality—Caroline Is., Palau. *Host plant*—unknown.

gigantea (Crawford, 1919) as *Megatrioza*

Type locality—Malaya, Penang. *Host plant*—unknown.

grandis (Crawford, 1920 c) as *Megatrioza*

Type locality—Indonesia, Borneo. *Host plant*—unknown.

magnicauda (Crawford, 1919) as *Megatrioza* [Miyatake, 1964 b, 1965]

Type locality—Philippines, Luzon. *Distribution*—Ryukyu Is., Hatoma, Ishigaki, Iriomote. *Host plant*—*Diospyros ferra* var *buxifolia* Bakh.

malloticola (Crawford, 1928 c) as *Megatrioza* [Mathur, 1975]

Phylloplecta malloticola Crawford [Laing, 1930; Mathur, 1946]

Type locality—Indonesia, Sumatra. *Distribution*—India. *Host plant*—*Mallotus philippinensis*.

melanoneura (Crawford, 1919) as *Megatrioza*

Type locality—Philippines, Luzon. *Host plant*—unknown.

palaquii (Laing, 1930) as *Phylloplecta*

Type locality—Malaya. *Host plant*—*Palaquium gutta*.

pallida (Uichanco, 1919) as *Megatrioza*

Megatrioza pallida Uichanco [Uichanco, 1921; Houard, 1922]

Type locality—Philippines, Luzon. *Host plant*—*Mallotus philippensis*.

The name *Trioza pallida* is also in use for a European species described by Haupt (1935).

palmicola (Crawford, 1918) as *Megatrioza*
Megatrioza palmicola Crawford [Crawford, 1924 b: Zimmerman, 1948]
Type locality—Hawaiian Is., Oahu. *Host plant*—*Pritchardia* sp.
praelonga Tuthill, 1964, as *Trioza*
Type locality—Caroline Is., Kusaie. *Host plant*—unknown.
robusta (Crawford, 1919) as *Megatrioza*
Type locality—Philippines, Luzon. *Host plant*—unknown.
stylata (Crawford, 1919) as *Megatrioza*
Type locality—Singapore; Philippines, Luzon. *Host plant*—unknown.
swezeyi (Crawford, 1927 b) as *Megatrioza* [Tuthill, 1964]
Megatrioza swezeyi Crawford [Crawford, 1928 b: Tuthill, 1943 a]
Type locality—Samoa Is., Apia, Tutuila: Fiji Is., Lau. *Distribution*—Fiji Is., Viti Levu, Yuvutha: Caroline Is., Palau. *Host plant*—unknown.
sympauropsylloides Miyatake, 1972 a, as *Trioza*
Type locality—Philippines, Mindanao. *Host plant*—unknown.
vanuae Kirkaldy, 1907, as *Trioza* [Kirkaldy, 1908 b: Aulmann, 1913]
Megatrioza vanuae (Kirkaldy) [Crawford, 1919]
Type locality—Fiji Is., Rewa. *Distribution*—Philippines. *Host plant*—unknown.
vitiensis Kirkaldy, 1907, as *Trioza* [Kirkaldy, 1908 b: Aulmann, 1913: Ramakrishna, 1924: Tuthill, 1964: Mathur, 1975]
Megatrioza vitiensis (Kirkaldy) [Crawford, 1919, 1927 b, 1928 b: Mani, 1935: Tuthill, 1942]
Phyllopecta vitiensis (Kirkaldy) [Klyver, 1932, 1935]
Trioza eugeniae Crawford, 1915
Type locality—Fiji Is., Rewa. *Distribution*—Fiji Is., Suva (BM); India; Sri Lanka; Malaya; Singapore; Indonesia, Java, Ambon Is.; Caroline Is., Ponape; Marquesas Is., Fatuhiva; Society Is., Moorea; Philippines; Samoan Is., Apia (BM), Tutuila; Sarawak (BM); Cook Is., Raratonga, Muri (BM). *Host plants*—*Eugenia malaccensis*, *Syzygium malaccensis*, *S. jambolana*.
vittata (Tuthill, 1943 a) as *Megatrioza*
Type locality—Fiji Is., Viti levu. *Host plant*—unknown.

Trioza residual group
alifumosa Klyver, 1932
Type locality—Marquesas Is., Fatuhiva. *Host plant*—possibly *Metrosideros collina*.
alipellucida Klyver, 1932 [Tuthill, 1956 b]
Type locality—Marquesas Is., Fatuhiva, Tahuata, Nukuhiva, Uapou. *Host plant*—*Metrosideros collina*.
amamiosimensis Kuwayama, 1943 [Sasaki, 1954: Miyatake, 1965]
Type locality—Ryukyu Is., Amami Oshima. *Host plant*—unknown.
apoensis Miyatake, 1972 a
Type locality—Philippines, Mindanao. *Host plant*—unknown.
bimaculata Tuthill, 1942 [Tuthill, 1956 b]
Type locality—Society Is., Tahiti, Huahine. *Host plant*—*Metrosideros?*
brevifrons Kuwayama, 1910 [Aulmann, 1913: Crawford, 1913, 1919: Kuwayama, 1931: Miyatake, 1964 a: Klimaszewski, 1973: Kwon & Lee, 1981]
Type locality—Taiwan. *Distribution*—Korea: Japan. *Host plant*—unknown.

camphorae Sasaki, 1910 [Aulmann, 1913: Houard, 1922: Kuwayama, 1931: Sorin, 1959: Yashiro *et al.* 1959: Miyatake, 1964 b: Klimaszewski, 1973]

Type locality—Taiwan. *Distribution*—Korea?; China; Japan; Ryukyu Is., Yaeyama group; Hong Kong (BM). *Host plant*—*Cinnamomum camphora* Sieb. The record for Korea is doubtful and probably refers to *Trioza chilgia* Park & Lee (see Kwon & Lee, 1981).

cinnamomi (Boselli, 1930) [Miyatake, 1964, 1965, 1966, 1969 b, 1976: Klimaszewski, 1973]

Spanioza cinnamomi Boselli

Siphonaleyrodes formosanus Takahashi, 1932 [Mound & Halsey, 1978]

Type locality—Taiwan. *Distribution*—Japan; Ryukyu Is., Iriomote, Okinawa. *Host plants*—*Cinnamomum doederleinii* Engl., *C. loureirii* Nees, *C. japonicum* Sieb., *C. reticulatum*, *Neolitsea aciculata*.

diptera Crawford, 1919

Type locality—Singapore. *Host plant*—unknown.

disjuncta Tuthill, 1951

Type locality—Caroline Is., Palau. *Host plant*—unknown.

divisa Crawford, 1917 [Crawford, 1919: Miyatake, 1965]

Type locality—Philippines, Luzon. *Distribution*—Ryukyu Is., Ishigaki and Iriomote. *Host plant*—*Ilex hayatana* Loesn. Miyatake states that this species is close to *Trichochermes*.

esakii Miyatake, 1975

Type locality—Japan, Ryukyu Is., Ishigaki. *Host plant*—*Symplocos prunifolia* Sieb & Zucc.

fletcheri Crawford, 1912 [Crawford, 1919: Ramakrishna, 1924: Rahman, 1932: Mathur, 1975]

Spanioza fletcheri (Crawford) [Enderlein, 1926]

Type locality—India. *Distribution*—Singapore. *Host plants*—*Gmelina arborea* L., *Trewia nudiflora* L., *Terminalia alata* Heyne ex Roth., *T. arjuna* W. & E., *T. catappa* L. The variety *T. fletcheri minor* Crawford, 1912, is recorded from India on the latter three host plants (Mathur 1975).

formosana Kuwayama, 1910 [Aulmann, 1913: Crawford, 1919: Kuwayama, 1931: Miyatake, 1965, 1968]

Type locality—Taiwan. *Distribution*—Ryukyu Is., Ishigaki, Iriomote. *Host plants*—*Ilex warburgii* Loesn., *I. hayatana*.

fulva Tuthill, 1943 a

Type locality—Fiji Is., Viti Levu. *Host plant*—unknown.

galii Förster, 1848 [Kuwayama, 1908: Aulmann, 1913: Kuwayama, 1931]

Type locality—Europe. *Distribution*—broadly distributed throughout the palaearctic (see Klimaszewski, 1973). *Host plant*—several *Galium* spp.

guama Caldwell, 1942 [Tuthill, 1964]

Trioza propria Tuthill, 1951

Type locality—S. Mariana Is., Guam. *Distribution*—S. Mariana Is., Pagan. *Host plant*—unknown.

hawaiiensis Crawford, 1918 [Crawford, 1919, 1924 b: Zimmerman, 1948: Nishida *et al.* 1980]

Type locality—Hawaiian Is., Hawaii. *Host plant*—*Metrosideros* sp.

indigena Tuthill, 1951 [Tuthill, 1964]

Type locality—Caroline Is., Ponape. *Host plant*—*Elaeocarpus kusanoi* Koidzumi.

insula Crawford, 1920 c

Type locality—Indonesia, Borneo. *Host plant*—unknown.

iolani Kirkaldy, 1902 [Kirkaldy, 1908 a: Aulmann, 1913: Crawford, 1918, 1919, 1924 b, 1925 a: Zimmerman, 1948]

Spanioza iolani (Kirkaldy) [Enderlein, 1926]

Type locality—Hawaiian Is., Kauai. *Distribution*—Hawaiian Is., Maui, Oahu. *Host plant—Metrosideros polymorpha*.

kauaiensis Crawford, 1925 a [Zimmerman, 1948]

Type locality—Hawaiian Is., Kauai. *Host plant—Metrosideros* sp.

kuwayamai Enderlein, 1914 [Kuwayama, 1931: Miyatake, 1964 b, 1965]

Spanioza kuwayamai (Enderlein) [Enderlein, 1926]

Type locality—Taiwan. *Host plant—Pouteria obovata* Baeheni (=*Sideroxylon ferrugineum*).

lanaiensis Crawford, 1918 [Crawford, 1919, 1927 a: Zimmerman, 1948]

Spanioza lanaiensis Crawford [Enderlein, 1926]

Type locality—Hawaiian Is., Lanai. *Distribution*—Hawaiian Is., Molokai. *Host plant—Metrosideros* sp.

lehua Crawford, 1925 a [Zimmerman, 1948]

Type locality—Hawaiian Is. *Host plant—Metrosideros* sp.

lyra Tuthill, 1951 [Tuthill, 1964]

Type locality—Caroline Is., Ponape. *Host plant*—unknown.

luzonensis Crawford, 1917 [Crawford, 1919]

Type locality—Philippines, Luzon. *Host plant*—unknown.

magna Kuwayama, 1910 [Aulmann, 1913: Crawford, 1919: Sasaki, 1954: Miyatake, 1969 c: Baba and Miyatake, 1971]

Heterotrioza magna Kuwayama [Klimaszewski, 1973]

Type locality—Japan. *Distribution*—Philippines, Luzon. *Host plant—Symplocos coreana* (Lev.) Ohwi.

molokaiensis Crawford, 1927 a [Zimmerman, 1948]

Type locality—Hawaiian Is., Molokai. *Host plant—Metrosideros* sp.

neolitseae Miyatake, 1965

Type locality—Ryukyu Is., Okinawa. *Host plant—Neolitsea aciculata* Koidz.

nigra Kuwayama, 1910 [Aulmann, 1913: Shinji, 1949: Sasaki, 1954: Ko, 1961: Miyatake, 1965, 1966, 1969 c, 1971 a, 1972 a, 1976: Baba and Miyatake, 1971: Klimaszewski, 1973: Kwon & Lee, 1981]

Trizona nigra Kuwayama [Shinji, 1938]

Type locality—Japan. *Distribution*—Korea; Taiwan; Ryukyu Is., Iriomote, Ishigaki, Okinawa, Okinoerabu, Amami Oshima. *Host plants—Styrax japonicum* S & Z., *S. obassia* S & Z., *Symplocos coreana* (Lev.) Ohwi, *S. japonicum*.

ohiacola Crawford, 1918 [Crawford, 1924 b, 1925 a: Zimmerman, 1948]

Type locality—Hawaiian Is., Hawaii and Oahu. *Distribution*—Hawaiian Is., Maui. *Host plant—Metrosideros glaberrima*.

papillata Crawford, 1920 c

Type locality—Indonesia, Borneo. *Host plant*—unknown.

pullata Crawford, 1918 [Crawford, 1919: Zimmerman, 1948]

Spanioza pullata Crawford [Enderlein, 1926]

Type locality—Hawaiian Is., Lanai. *Host plant*—unknown.

quadrifasciata Miyatake, 1972 a

Type locality—Philippines, Mindanao. *Host plant*—unknown.

samoansis Crawford, 1927 b [Crawford, 1928 b]

Type locality—Samoan Is., Pago Pago and Tutuila. *Host plant*—unknown.

significans Tuthill, 1956 b

Type locality—Marquesas Is. *Host plant*—possibly *Cyrtandra* or *Vaccinium* sp.

suavis Tuthill, 1951 [Tuthill, 1964]

Type locality—S. Mariana Is., Guam; Caroline Is., Palau. *Host plant*—*Ficus* sp.

taiwanica Boselli, 1930 [Miyatake, 1964 b]

Type locality—Taiwan. *Host plant*—unknown.

tenuicona Crawford, 1919

Type locality—Singapore. *Host plant*—unknown.

tericeps Tuthill, 1943 a

Type locality—Fiji Is., Lau. *Host plant*—unknown.

uniqua (Caldwell, 1940) [Zimmerman, 1948]

Ceropsylla uniqua Caldwell

Type locality—Hawaiian Is., Kauai. *Host plant*—*Cryptocarpa* sp.

zimmermani Tuthill, 1942

Type locality—Austral Is., Raivave. *Host plant*—unknown.

TYORA Walker, 1869 [CARSIDARIDAE]

TYPE SPECIES: *T. congrua* Walker, 1869

The interpretation of this genus has been the subject of much debate (see discussion under *Nesiope*). Scott (1882) redescribed the headless holotype of the type-species.

buxtoni Crawford, 1927 b [Crawford, 1928 b]

Type locality—Samoan Is., Upolu. *Distribution*—Solomon Is., Guadalcanal, Bourgainville Is., Kieta (BM). *Host plant*—unknown.

congrua Walker, 1869 [Scott, 1882: Aulmann, 1913: Crawford, 1920 c]

Type locality—Indonesia, Misool Is. *Distribution*—Bismark Archipelago, New Britain (BM). *Host plant*—unknown.

Host plants

In the following list of recorded host plants, generic names of plants follow Willis (1973) and the families are arranged according to Cronquist (1968). In this list, plant generic names have been revised to bring them into line with modern usage.

	HOST PLANT		PSYLLID
MAGNOLIALES			
	Lauraceae	*Cinnamomum*	*Trioza camphorae*
			T. cinnamomi
		Cryptocarya	*Paurotriozana adaptata*
		Lindera	*Togepsylla takahashii*
		Litsea	*Psylla tripunctata*
		Neolitsea	*Trioza neolitsea*
RANUNCULALES			
	Lardizabalaceae	*Akebia*	*Psylla coccinea*
		Stauntonia	*Psylla coccinea*
URTICALES			
	Ulmaceae	*Trema*	*Paurocephala psylloptera*
	Moraceae	*Ficus*	*Dynopsylla cornuta*
			D. pinnativena
			Homotoma bakeri

	Host plant		Psyllid
			H. bilineata
			H. radiata
			Macrohomotoma gladiatum
			M. striata
			M. williamsi
			Mycopsylla fici
			Paurocephala conchaiensis
			P. psylloptera
			P. wilderi
			Pauropsylla deflexa
			P. udei
			Sympauropsylla trizoptera
			Trioza suavis
		Artocarpus	*Paurocephala artocarpae*
		Morus	*Paurocephala psylloptera*
POLYGONALES			
	Polygonaceae	*Polygonum*	*Aphalara itadori*
		Rumex	*Aphalara rumicis*
THEALES			
	Guttiferae	*Calophyllum*	*Leptynoptera alagari*
			L. sulfurea
			Leuronota calophylli
MALVALES			
	Elaeocarpaceae	*Elaeocarpus*	*Trioza indigena*
	Tiliaceae	*Colona*	*Paurocephala psylloptera*
		Diplodiscus	*Paurocephala adelaidae*
	Sterculiaceae	*Heritiera*	*Nesiope ornata*
		Firmiana	*Carsidara marginalis*
		Kleinhovia	*Paurocephala kleinhofiae*
		Pterospermum	*Paurocephala brevicephala*
		Sterculia	*Tenaphalara acutipennis*
	Bombacaceae	*Bombax*	*Tenaphalara acutipennis*
		Durio	*Tenaphalara malayensis*
	Malvaceae	*Hibiscus*	*Mesohomotoma comphorae*
			M. hibisci
		Kydia	*Paurocephala minuta*
		Thespesia	*Haplaphalara dahli*
			Mesohomotoma camphorae
		Urena	*Mesohomotoma lutheri*
			M. lineaticollis
VIOLALES			
	Flacourtiaceae	*Xylosma*	*Cerotrioza bivittata*
ERICALES			
	Ericaceae	*Vaccinium*	*Psylla vaccinii*
			Stenopsylla proboscidaria
			Trioza significans?
EBENALES			
	Sapotaceae	*Chrysophyllum*	*Kuwayama tipicola*
		Palaquium	*Tenaphalara confluens*
			Trioza palaquii
		Pouteria	*Trioza kuwayamai*
		Sideroxylon	*Swezeyana elongagena*
			S. reticulata
	Ebenaceae	*Diospyros*	*Trioza magnicauda*
			Kuwayama minutura
			K. pisonia
	Styracaceae	*Styrax*	*Trioza nigra*

	Host plant		Psyllid
	Symplocaceae	*Symplocos*	*Stenopsylla nigricornis*
			S. occipitalis
			Trioza esakii
			T. magna
			T. nigra
PRIMULALES			
	Myrsinaceae	*Ardisia*	*Stenopsylla occipitalis*
ROSALES			
	Pittosporaceae	*Pittosporum*	*Psylla tobirae*
	Rosaceae	*Raphiolepis*	*Psylla satsumensis*
	Leguminosae	*Acacia*	*Acizzia uncatoides*
		Albizia	*Acizzia uncatoides*
		Cajanus	*Psylla cajanae*
		Cynometra	*Isogonoceraia venusta?*
		Dalbergia	*Psylla delbergiae*
			Arytaina uichancoi
		Derris	*Epipsylla albolineata?*
			E. pulchra
			Psylla derricola
			Spanioneura quadrimaculata
		Intsia	*Insnesia glabrascuta*
		Mucuna	*Epipsylla albolineata*
		Samanea	*Acizzia acaciaebaileyanae*
MYRTALES			
	Myrtaceae	*Eucalyptus*	*Ctenarytaina eucalypti*
		Eugenia	*Trioza vitiensis*
		Metrosideros	*Ctenarytaina remota?*
			Kuwayama gracilis
			K. minuta
			K. nigricapita
			T. alifumosa?
			T. alipellucida
			T. bimaculata
			T. hawaiiensis
			T. iolani
			T. kauaiensis
			T. lanaiensis
			T. lehua
			T. molokaiensis
			T. ohiacola
		Syzygium	*Trioza vitiensis*
	Combretaceae	*Terminalia*	*Trioza fletcheri*
PROTEALES			
	Eleagnaceae	*Eleagnus*	*Psylla fulguralis*
			P. kiushuensis
CELESTRALES			
	Aquifoliaceae	*Ilex*	*Trichochermes bicolor*
			Trioza divisa
			T. formosana
EUPHORBIALES			
	Euphorbiaceae	*Drypetes*	*Insnesia drypetes*
		Gelonium	*Epipsylla rubrofasciata*
		Mallotus	*Trioza mallotícola*
			Trioza pallida
	Daphniphyllaceae	*Daphniphyllum*	*Cecidotrioza sozanica*
SAPINDALES			
	Sapindaceae	*Guioa*	*Parapaurocephala longicella*

	Host plant		Psyllid
	Burseraceae	*Canarium*	*Chineura alba*
	Anacardiaceae	*Buchanania*	*Pelmetobrachia buchananiae*
			Pseudotrioza hiurai?
		Magnifera	*Microceropsylla brevicornis*
			M. nigra
		Rhus	*Calophya nigridorsalis*
	Rutaceae	*Citrus*	*Diaphorina citri*
		Euodia	*Psylla evodiae*
		Fagara	*Hemischizocranium bessi*
		Murraya	*Diaphorina citri*
		Pelea	*Hevaheva maculata*
			H. minuta
			H. monticola
			H. perkinsi
			H. silvestris
			H. swezeyi
		Platydesma	*Hevaheva giffardi*
		Xanthoxylum	*Hevaheva aloha*
	Meliaceae	*Aglaia*	*Pseudophacopteron floccosum*
			Insnesia extrema?
UMBELLALES			
	Araliaceae	*Tetraplasandra*	*Crawforda triopsyllina*
GENTIANALES			
	Apocynaceae	*Alstonia*	*Pseudophacopteron tuberculata*
LAMIALES			
	Verbenaceae	*Clerodendrum*	*Stenopsylla nigricornis*
SCROPHULARIALES			
	Gesneriaceae	*Cyrtandra*	*Trioza significans?*
RUBIALES			
	Rubiaceae	*Galium*	*Trioza galii*
ASTERALES			
	Compositae	*Senecio*	*Rhinopsylla takahashii*
ARECALES			
	Palmae	*Pritchardia*	*Trioza palmicola*

Undetermined psyllid galls

Undetermined psyllid species are known to form galls on the following plants which are again listed in taxonomic sequence together with the relevant reference to the gall description. Several papers published by J. and W. Docters Van Leeuwen-Reijnvaan have been abbreviated to DVLR. Houard (1922, 1923) also provides a complete early bibliography to the known gall-forming species.

	Host plants		Reference
MAGNOLIALES	Lauraceae	*Cinnamomum burmanni*	DVLR (1909 b)
		C. iners	DVLR (1914)
		Cryptocarya tomentosa	DVLR (1918)
		Endiandra sp.	Rübsaamen (1911)
		Lindera gemmiflora	DVLR (1918)
		Litsea noronhae	DVLR (1914)
URTICALES	Moraceae	*Ficus ampelas*	DVLR (1909 a, 1916 a, b)
		F. cuspidata	DVLR (1911)
		F. gibbosa	DVLR (1918)

	Host plants		Reference
		F. glomerata	DVLR (1910 b, 1916 b)
		F. parietalis	DVLR (1918)
		F. pisifera	DVLR (1916 a)
		F. retusa	DVLR (1918)
		F. ribes	DVLR (1911)
		F. rigida	DVLR (1918)
		F. rostrata	DVLR (1918)
		F. ulmifolia	Uichanco (1919)
		F. variegata	DVLR (1916 a)
		Ficus sp.	Rübsaamen (1905)
THEALES	Guttiferae	*Calophyllum inophyllum*	Uichanco (1919)
MALVALES	Malvaceae	*Thespesia populnea*	Docters Van Leeuwen (1920)
ROSALES	Leguminosae	*Pongamia glabra*	Rübsaamen (1905)
MYRTALES	Myrtaceae	*Eugenia malaccensis*	Trotter (1917), DVLR (1909 b, 1914, 1916 a, b)
		E. polyantha	DVLR (1910 a)
		E. tenuicuspis	DVLR (1912)
		Metrosideros sp.	Trotter (1911)
PROTEALES	Proteaceae	*Helicia javanica*	DVLR (1914)
SANTALALES	Loranthaceae	*Loranthus schultenii*	DVLR (1909 b)
EUPHORBIALES	Euphorbiaceae	*Homalanthus populifolius*	Docters Van Leeuwen (1920)
		Macaranga sp.	Rübsaamen (1905)
		Mallotus philipinensis	DVLR (1914)
	Daphniphyllaceae	*Daphniphyllum glaucescens*	DVLR (1918)
RHAMNALES	Leeaceae	*Leea aequata*	DVLR (1914)
		L. sambucina	DVLR (1916 a)
		Leea sp.	Rübsaamen (1899)
SAPINDALES	Sapindaceae	*Harpullia cupanoides*	DVLR (1910 a)
	Rutaceae	*Glycosmis pentaphylla*	DVLR (1918)
	Meliaceae	*Dysoxylum amooroides*	DVLR (1914)
GENTIANALES	Apocynaceae	*Alstonia scholaris*	DVLR (1910 a, 1916 b)
SCROPHULARIALES			
	Acanthaceae	*Dianthera dichotoma*	DVLR (1914)
ASTERALES	Compositae	*Vernonia cinerea*	Docters Van Leeuwen (1920)

Summary

The 238 species of jumping plant lice (Homoptera: Psylloidea) recorded from the Austro-Oriental, Pacific and Hawaiian zoogeographical realms are listed under their respective genera. Information is given on synonymy, host plants and distribution. The taxonomic position of the problematical groups is discussed. The check list is supplemented by a taxonomic list of host plants and their associated psyllid and a resumé of published descriptions of undetermined psyllid galls.

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