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Psocid News

The Psocidologists' Newsletter

No. 4 (Feb. 17, 2003)



Dyspocus coleoptratus

RECORDING THE NATIVE PSOCOPTERA OF BRITAIN AND IRELAND - AN INTRODUCTION TO KEITH ALEXANDER -

Keith Alexander (UK)

My interest in Psocoptera began in 1979 when I noticed an *Ectopsocus briggsi* (or was it *E. petersi*?) in my sweep net when I was out recording invertebrates for my employer The National Trust in Devon. I had not knowingly seen a Psocid before and had to start from scratch with a key to insect groups! I think it was Michael Chinery's Collins Guide to the Insects of Britain and Northern Europe that got me started and then I acquired a copy of the Royal Entomological Society's Handbook (New, T. R., 1974, Psocoptera. *Handbk. Id. Br. Insects* I (7)). From then on I took what has to be described as a fairly casual interest, keeping specimens rather selectively, more on whim than anything else - I was employed to identify the nature conservation interests of National Trust properties at the time and Psocoptera are too little known to contribute much - if anything.

Living in Gloucestershire, with its active field recording tradition maintained by the Gloucestershire Naturalists' Society, I was eventually invited to act as County Recorder for Psocoptera, from about 1990. There must be very few English counties with their own official Psocoptera Recorder! There was no county list at the time although an earlier entomologist - Bob George - had started compiling records, mainly of warehouse adventives, in the 1950s and 1960s. His dusty old Psocoptera file was ceremonially passed to me from the Society's archives one day.

The Gloucestershire county list currently stands at 49 species, comprising 36 natives and 13 introductions. Additions may be expected in both categories, the true total of natives being probably around 40 out of the 50 plus nationally, while the potential for further introductions is enormous. My review of the county fauna is due to be published in The Gloucestershire Naturalist very soon.

My recent expansion in interest in Psocids really came about in 1998 while working in Norfolk. My Gloucestershire activities had begun to awaken a deeper interest and my work had taken me to Norfolk that year and I had decided to try recording more intensely. And, amazingly, while browsing through local publications in the English Nature office in Norwich I came across Phil Wither's review of the Norfolk fauna in *Trans. Norfolk Norwich Nat. Soc.* 1997 - someone else actively interested in recording Psocoptera in Britain! This was a real boost - a framework was beginning to form, although Phil was based in France at that time.

And then Bob Saville's review of "The Barklice of the Lothians (Scotland)" appeared in *Glasgow Naturalist* in 1999 - although I didn't come across it for some time afterwards - and I realised I was really not alone! I had just submitted some notes on Psocoptera from one of the National Trust's estates in Northumberland to Entomologist's Record, which appeared in 2001, and so I sent a reprint to Bob as an introduction. Bob has since drawn my attention to Psocid News ... and here we are.

In fact I am now in touch with a small number of other entomologists around Britain who are interested in Psocoptera. None of us had been terribly active and so we had not realised that we shared this common interest. It was really Bob Saville's work that has stimulated us to start communicating together.

My interests are very much in ecology and biogeography, and I have started thinking about the degree of association that our native Psocids have with ecological continuity. Many of the arboreal species appear to be more associated with ancient woodlands and ancient wood pastures, and this would presumably link to the well-known high species-richness of the epiphyte communities of these habitats - better developed epiphytic vegetation will provide a greater variety of niches for associated invertebrates.

Peter Skidmore had suggested that *Trichadenotecnum majus* is an ancient woodland species some time ago. My work in Gloucestershire has started to lead to similar conclusions. Britain's largest bark fly *Psococerastis gibbosa*, the cloudy-winged *Metopophorus nebulosus* and the picture-winged *Loensia fasciata* have only been found in the Cotswold ancient woodlands and in the medieval Forest of Dean, whereas *Caecilius fuscopterus*, with its distinctive wing-banding, the small delicate *Enderleinella obsoleta* and other picture-winged species *Loensia variegata* and *T.*

majus have only been found in the Forest. *Trichadenotecnum sexpunctatum* has only been found in one of the larger ancient woodlands in the Cotswold Hills. So there is a clear pattern locally that woodlands with a longer history have a uniquely species-rich Psocid fauna.

My Northumberland recording had shown similar associations with the older woods for *P. gibbosa* and *M. nebulosus*, although *Loensia* and *Trichadenotecnum* were present in areas with less obvious habitat continuity. I have also been recording Psocids more actively in Cornwall, at the opposite, south-western extreme of England. Here I know *Caecilius fuscopterus*, *P. gibbosa*, *Trichadenotecnum sexpunctatum* and *Loensia fasciata* only from ancient oak woods, but *M. nebulosus* is more widespread, even occurring amongst scrub below seacliffs. It seems likely that the degree of association with ancient woodland will be found to vary across the local ranges of the individual species.

Incidentally, I do hate the term "lice" for these attractive insects. I have started to refer to the arboreal species as "bark flies", as the term "lice" has such a bad name with people. If we wish to promote an interest in these delightful insects for their own sake then we do need an attractive vernacular name.

List of Publications on Psocoptera:

Alexander, K. N. A. 1983. Some observations on the invertebrate fauna of juniper in the Lake District. *Entomologist's Monthly Magazine* **119**: 49.

Alexander, K. N. A. 2001. The Psocoptera of the Wallington Estate - a contribution to recording the Northumberland fauna. *Entomologist's Record* **113**: 231–32.

Alexander, K. N. A. In press. *Epicaecilius pilipennis* (Lienhard) (Psocoptera) new to England from West Sussex. *Entomologist's Record*.

Alexander, K. N. A. In press. The Bark Flies & Book Lice (Psocoptera) Of Gloucestershire. *Gloucestershire Naturalist* No 15.

RESEARCH PROGRAM

Heather Clarke (University of Wales, UK)

My name is Heather Clarke, and I am a BSc student at the University of Wales in the U.K.. This summer I have been collecting local species of Psocoptera, and now I am going to use PCR to see if they contain types of bacteria that have been linked to parthenogenesis in arthropods. I will be looking for the bacteria in bisexual and thelytokous species of Psocoptera.

I would be very grateful for any samples to extend my search, and can be contacted at bsu87a@bangor.ac.uk.

ADDITIONS AND CORRECTIONS (PART 1) TO LIENHARD & SMITHERS, 2002: "PSOCOPTERA (INSECTA) – WORLD CATALOGUE AND BIBLIOGRAPHY"

Charles Lienhard (Geneva Natural History Museum, Switzerland)

1. Introduction

I plan to publish in "Psocid News" a series of "Additions and Corrections to the World Catalogue and Bibliography". Please remember to send me copies of your papers on Psocoptera, and indicate to me all the errors you find in the 2002-book (=Lienhard & Smithers, 2002). If papers which came to your notice are not treated in the "Additions", please send me the bibliographical references by e-mail. In the "Additions to the Bibliography", references to the papers which I have not yet seen are marked with "(Not seen)". Please send me a copy of these papers if you feel concerned. Only papers which I have seen are analysed for the "Additions to the Catalogue", except those "(Not seen)"-papers where the matter they deal with is clearly indicated in the title or in the abstract (e. g. most of Wang Jinjun's papers). The other papers will be analysed in a future part of the "Additions to the Catalogue", as soon as a copy of them becomes available to me.

In general these "Additions" present the information in the style of the 2002-book, according to the criteria mentioned there (pp. ix-xli) and using the same abbreviations (cf. pp. xl-xli). Families (and higher categories, if mentioned) are listed according to Table 1 of the 2002-book. For each family, changes concerning supra-generic taxa are mentioned at the beginning of the family treatment, except for Psocidae, where subfamilies and tribes are treated separately. For genus-group names and species-group names already mentioned in the 2002-book only the author is cited, for new names the complete reference (author, year, page) is given in their first entry, where new genus-group names are marked with two asterisks (**) and new species group names with one asterisk (*). Genera are listed alphabetically within each family, except for Psocidae, where they are grouped according to subfamilies and tribes. Species are listed alphabetically within each genus. Country names (in the "Additions to the Catalogue") and author names (in the "Additions to the Bibliography") are not printed in small capitals, as in the 2002-book, but in normal letters. The "Corrections" refer to the pages of the 2002-book and the changes proposed here are underlined if necessary for intelligibility.

No nomenclatural act will be published in the "Additions to the Catalogue" because articles in "Psocid News" are not considered as published works under the rules of ICZN. Sometimes recommendations to future revisers are given concerning nomenclatural acts which eventually should be published. Only some mandatory changes are made in the "Additions to the Catalogue" (e. g. spelling of species name endings in genera *Neoblaste*, *Ptycta*, *Trichadenotecnum*).

An up-to-date cumulative page index for genus names and family names mentioned in the "Additions and Corrections" will be compiled about every two years, making it relatively easy to work with the different parts up to the moment where a comprehensive complement to the 2002-book could be published.

2. Additions to the Catalogue

NOTE: The important and very voluminous monograph on Chinese psocids published by Li Fasheng (2002) is mentioned in chapter 3 ("Additions to the Bibliography"), but it has not yet been analysed in detail for this part of the "Additions to the Catalogue". In this book all 1505 Chinese species examined by Li Fasheng are keyed, described and illustrated; 918 of them are new to science and 64 new genera are defined. This monograph will be analysed in the forthcoming parts of the "Additions to the Catalogue", in the present part only the most important changes concerning higher classification proposed by Li Fasheng are mentioned (see heading "New classification" for Trogiomorpha, Troctomorpha and Psocomorpha).

Psocoptera

Anat.: Emeljanov *et al.*, 2001a (evolution of testes), 2001b (evolution of testes and ovaries). Palaeont.: Janzen, 2002 (Baltic Amber).

Trogiomorpha

New classification: Li Fasheng, 2002: 4 (Table 1). The suborder is subdivided into the following superfamilies and families (some names are misspelled in Table 1, their correct spelling is given here): Thylacelloidea: Thylacellidae. Perientomoidea: Lepidopsocidae, Perientomidae. Trogioidea: Anomocopeidae, Trogiidae. Psoquilloidea: Psoquillidae, Empheriidae. Prionoglaridoidea: Prionoglarididae. Speleketoroidea: Speleketoridae. Psyllipsocoidea: Psyllipsocidae, Psocathropidae.

Empheriidae

Family definition (p. 576), key to species (p. 582): Baz & Ortuño, 2001b.

*Empheropsocus*** Baz & Ortuño, 2001b: 577. Gender: M. Type species: *Empheropsocus arilloi* Baz & Ortuño.

*Empheropsocus arilloi** Baz & Ortuño, 2001b: 577. Amber (Cretaceous): Spain (I).

*Empheropsocus marginelabrus** Baz & Ortuño, 2001b: 578. Amber (Cretaceous): Spain (I).

*Preempheria*** Baz & Ortuño, 2001b: 580. Gender: F. Type species: *Preempheria antiqua* Baz & Ortuño.

*Preempheria antiqua** Baz & Ortuño, 2001b: 581. Amber (Cretaceous). Spain (I).

Lepidopsocidae

Echmepteryx Aaron. Morph.: Yoshizawa, 2002e.

Echmepteryx spec. Nicaragua (IV): Garcia Aldrete, 2001f.

Echmepteryx brunnea Smithers. Australia (IX): Williams, 2002.

Echmepteryx falco (Badonnel). Nicaragua (IV): Garcia Aldrete, 2001f.

Echmepteryx hageni (Packard). Parasit.: Huber & Landry, 1999 (figs of *Dicopomorpha echmepterygis* Mockford).

Echmepteryx picta Smithers. Australia (IX): Williams, 2002.

*Echmepteryx schrankeli** Garcia Aldrete, 2001c: 86. USA (III).

Nepticulomima spec. Nicaragua (IV): Garcia Aldrete, 2001f.

*Nepticulomima campechensis** Garcia Aldrete, 2001b: 95. Mexico (IV).

Nepticulomima hoeseimanni (Enderlein). Ecuador (V): Garcia Aldrete, 2001d.

Nepticulomima tridentata Smithers. Australia (IX): Williams, 2002.

Parasoa haploneura Thornton. Ecol.: Lienhard, 2002c (in cave).

Perientomum spec. Ecol.: Lienhard, 2002c (in cave).

Proentomum personatum Badonnel. Nicaragua (IV): Garcia Aldrete, 2001f.

Pteroxanium insularum Schmidt & Thornton. Genet.: Shao *et al.*, 2001.

Pteroxanium kelloggi (Ribaga). Great Britain (I): Saville, 2001b (phenol.).

Soa flaviterminata Enderlein. Nicaragua (IV): Garcia Aldrete, 2001f. Ecol.: Lienhard, 2002c (in cave).

Thylacella cubana (Banks). Nicaragua (IV): Garcia Aldrete, 2001f.

*Thylacella huautlensis** Garcia Aldrete, 2001a: 59. Mexico (IV).

Trogiidae

Cerobasis spec. Selvagens Islands (II): Arechavaleta *et al.*, 2001. Nicaragua (IV): Garcia Aldrete, 2001f.

Cerobasis annulata (Hagen). Selvagens Islands (II): Arechavaleta *et al.*, 2001 (cf. *annulata*).

Cerobasis canariensis (Enderlein). Canary Islands (II): Baz & Zurita, 2001.

Cerobasis denticulata Lienhard. Canary Islands (II): Baz & Zurita, 2001.

Cerobasis ericacea Baz. Canary Islands (II): Baz & Zurita, 2001.

Cerobasis guestfalica (Kolbe). Germany (I): Schneider *et al.*, 2001. Great Britain (I): Saville, 2001b (phenol.).

Luxembourg (I): Schneider, 2001. Canary Islands (II): Baz & Zurita, 2001. Australia (IX): Williams, 2002.

Biol.: Braig *et al.*, 2002 (host of *Wolbachia* bacterium).

Cerobasis insularis Lienhard. Canary Islands (II): Baz & Zurita, 2001.

Cerobasis longicornis Baz. Canary Islands (II): Baz & Zurita, 2001.

Cerobasis pineticola Baz. Canary Islands (II): Baz & Zurita, 2001.

Cerobasis rosae Baz. Canary Islands (II): Baz & Zurita, 2001.
Lepinotus spec. Nicaragua (IV): Garcia Aldrete, 2001f.
Lepinotus inquilinus Heyden. Canary Islands (II): Baz & Zurita, 2001. Australia (IX): Williams, 2002. Ecol.: Lienhard, 2002c (in cave).
Lepinotus patruelis Pearman. Germany (I): Schneider *et al.*, 2001.
Lepinotus reticulatus Enderlein. Canary Islands (II): Baz & Zurita, 2001. Selvagens Islands (II): Arechavaleta *et al.*, 2001. Ecol.: Lienhard, 2002c (in cave).
Lepinotus stoneae Smithers. Australia (IX): Williams, 2002.
Lepinotus vermicularis Lienhard. Canary Islands (II): Baz & Zurita, 2001.
Trogium pulsatorium (Linnaeus). Czech Republic (I): Holusa, 2001a. Canary Islands (II): Baz & Zurita, 2001.

Psoquillidae

Psoquilla marginepunctata Hagen. Italy (I): Nicoli Aldini, 1998, 2000, 2002.

Psyllipsocidae

Dorypteryx domestica (Smithers). Czech Republic (I): Holusa, 1999. Germany (I): Schneider *et al.*, 2001. Canary Islands (II): Baz & Zurita, 2001. Egg: Kucerova & Jokes, 2002.
Dorypteryx longipennis Smithers. Italy (I): Nicoli Aldini, 2002.
Dorypteryx pallida Aaron. Ecol.: Lienhard, 2002c (in cave).
Psocathropos lachlani Ribaga. Canary Islands (II): Baz & Zurita, 2001. Nicaragua (IV): Garcia Aldrete, 2001f. Ecol.: Lienhard, 2002c (in cave).
Psyllipsocus batuensis Thornton. Ecol.: Lienhard, 2002c (in cave).
Psyllipsocus decui Badonnel. Ecol.: Lienhard, 2002c (in cave).
Psyllipsocus dubius Badonnel. Ecol.: Lienhard, 2002c (in cave).
Psyllipsocus hirsutus Thornton. Ecol.: Lienhard, 2002c (in cave).
Psyllipsocus orchidani Badonnel. Ecol.: Lienhard, 2002c (in cave).
Psyllipsocus ramburii Selys-Longchamps. Germany (I): Schneider *et al.*, 2001. Canary Islands (II): Baz & Zurita, 2001. Selvagens Islands (II): Arechavaleta *et al.*, 2001. USA (III): Welbourn, 1999. Biol.: Braig *et al.*, 2002 (parthenogenesis). Ecol.: Lienhard, 2002c (in cave).
Psyllipsocus yucatan Gurney. Ecol.: Lienhard, 2002c (in cave).

Prionoglarididae

Prionoglaris dactyloides Lienhard. Ecol.: Lienhard, 2002c (in cave).
Prionoglaris stygia Enderlein. Ecol.: Lienhard, 2002c (in cave).
Sensitibilla strinatii Lienhard. Namibia (VI): Strinati, 2001. Ecol.: Lienhard, 2002c (in cave).
Speleketor flocki Gurney. Ecol.: Lienhard, 2002c (in cave).

Troctomorpha

New classification: Li Fasheng, 2002: 5 (Table 1). The suborder is subdivided into the following superfamilies and families (some names are misspelled in Table 1, their correct spelling is given here): Liposcelidoidea: Liposcelididae. Pachytroctoidea: Pachytroctidae. Troctopsocoidea: Sphaeropsocidae, Troctopsocidae. Musapsocoidea: Musapsocidae. Amphientomoidea: Amphientomidae, Manicapsocidae, Compsocidae.

Electrentomidae

*Manicapsocidus*** Baz & Ortuño, 2001a: 29. Gender: M. Type species: *Manicapsocidus enigmaticus* Baz & Ortuño. (Tentatively placed in Manicapsocidae).
*Manicapsocidus enigmaticus** Baz & Ortuño, 2001a: 29. Amber (Cretaceous): Spain (I).

Compsocidae

Compsocus elegans Banks. Nicaragua (IV): Garcia Aldrete, 2001f.

Protroctopsocidae

Philedaphia hauseri (Lienhard). Ecol.: Lienhard, 2002c (in cave).
Protroctopsocus enigmaticus Mockford. Ecol.: Lienhard, 2002c (in cave).

Troctopsocidae

Morph.: Yoshizawa, 2002e.
Troctopsocus morenus Mockford. Ecuador, Peru (V): Garcia Aldrete, 2001d.

Amphientomidae

Amphientomum aelleni Badonnel. Ecol.: Lienhard, 2002c (in cave).
Hemiseopsis alettae Smithers. Australia (IX): Williams, 2002.
Nephax fortunatus (Navas). Canary Islands (II): Baz & Zurita, 2001.
Paramphientomum Enderlein. Morph.: Yoshizawa, 2002e.
*Seopsocus lacandonicus** Garcia Aldrete, 2001b: 97. Mexico (IV).

Tineomorpha Enderlein. Morph.: Yoshizawa, 2002e.

Liposcelididae

Belapha spec. Ecol.: Lienhard, 2002c (in cave).

Belaphotroctes ghesquierei Badonnel. Canary Islands (II): Baz & Zurita, 2001. Ecol.: Lienhard, 2002c (in cave).

Liposcelis spec. Selvagens Islands (II): Arechavaleta *et al.*, 2001. Nicaragua (IV): Garcia Aldrete, 2001f. Ecol.: Lienhard, 2002c (in cave).

Liposcelis ayosae Lienhard. Canary Islands (II): Baz & Zurita, 2001.

Liposcelis bostrychophila Badonnel. Germany (I): Schneider *et al.*, 2001. Canary Islands (II): Baz & Zurita, 2001. Nicaragua (IV): Garcia Aldrete, 2001f. Biol.: Yusuf, 1999; Braig *et al.*, 2002 (host of *Wolbachia* bacterium). Ecol.: Lienhard, 2002c (in cave). Pest: Wu Shiyuan *et al.*, 1997; Wang Jinjun *et al.*, 1998, 1999e, 1999f, 1999g, 1999h, 1999i, 2001a, 2001b, 2001c, 2001d, 2001e; Ding Wei *et al.*, 2001, 2002b; Ali & Turner, 2001; Nayak & Collins, 2001a, 2001b; Nayak, 2002; Nayak *et al.*, 2002a, 2002b; Weller & Beckett, 2002.

Liposcelis brunnea Motschulsky. Germany (I): Schneider *et al.*, 2001. Canary Islands (II): Baz & Zurita, 2001.

Liposcelis canariensis Lienhard. Canary Islands (II): Baz & Zurita, 2001.

Liposcelis corrodens (Heymons). Germany (I): Schneider *et al.*, 2001.

Liposcelis decolor (Pearman). Germany (I): Schneider *et al.*, 2001. Canary Islands (II): Baz & Zurita, 2001. Ecol.: Lienhard, 2002c (in cave). Pest: Nayak, 2002; Nayak *et al.*, 2002b; Rees *et al.*, 2002; Weller & Beckett, 2002.

Liposcelis entomophila (Enderlein). Nicaragua (IV): Garcia Aldrete, 2001f. Pest: Wang Jinjun *et al.*, 1996; Mashaya, 2001; Nayak & Collins, 2001a; Ding Wei *et al.*, 2001, 2002a; Nayak, 2002; Nayak *et al.*, 2002a, 2002b; Weller & Beckett, 2002. Ecol.: Lienhard, 2002c (in cave).

Liposcelis mendax Pearman. Canary Islands (II): Baz & Zurita, 2001.

Liposcelis meridionalis (Rosen). Ecol.: Lienhard, 2002c (in cave).

Liposcelis orghidani Badonnel. Ecol.: Lienhard, 2002c (in cave).

Liposcelis paeta Pearman. Pest: Nayak & Collins, 2001a; Nayak *et al.*, 2002a.

Liposcelis paetula Broadhead. Canary Islands (II): Baz & Zurita, 2001.

Liposcelis pubescens Broadhead. Pest: Weller & Beckett, 2002 (?*pubescens*).

Liposcelis rufa Broadhead. Canary Islands (II): Baz & Zurita, 2001.

Liposcelis rugosa Badonnel. Canary Islands (II): Baz & Zurita, 2001.

Liposcelis silvarum (Kolbe). Germany (I): Schneider *et al.*, 2001. Canary Islands (II): Baz & Zurita, 2001.

Troglotroctes ashmoleorum Lienhard. Ecol.: Lienhard, 2002c (in cave).

Pachytroctidae

Nanopsocus oceanicus Pearman. Canary Islands (II): Baz & Zurita, 2001. Nicaragua (IV): Garcia Aldrete, 2001f.

Nymphotroctes denisi Badonnel. Canary Islands (II): Baz & Zurita, 2001.

Pachytroctes spec. Nicaragua (IV): Garcia Aldrete, 2001f. Ecol.: Lienhard, 2002c (in cave).

Tapinella Enderlein. Morph.: Yoshizawa, 2002e.

Tapinella spec. Nicaragua (IV): Garcia Aldrete, 2001f.

Tapinella castanea Pearman. Canary Islands (II): Baz & Zurita, 2001.

Tapinella picticeps Badonnel. Ecol.: Lienhard, 2002c (in cave).

Sphaeropsocidae

Sphaeropsocopsis myrtleae Lienhard & Ashmole. Ecol.: Lienhard, 2002c (in cave).

Psocomorpha

New classification: Li Fasheng, 2002: 5-6 (Table 1). The suborder is subdivided into the following superfamilies and families: Epipsocoidea: Dolabellopsocidae, Epipsocidae, Callistopteridae, Asiopsocidae. Ptiloneuroidea: Cladiopsocidae, Ptiloneuridae. Calopsocoidea: Polypsocidae (misspelled Polypsocidea in Table 1), Calopsocidae. Caeciliusoidea: Caeciliusidae, Stenopsocidae, Amphipsocidae, Dasydemellidae. Hemipsocoidea: Hemipsocidae. Pseudocaecilioidea: Ectopsocidae, Elipsocidae, Philotarsidae, Archipsocidae, Pseudocaeciliidae, Trichopsocidae, Bryopsocidae. Psocoidea: Peripsocidae, Mesopsocidae, Psilopsocidae, Myopsocidae, Psocidae, Lachesillidae.

New classification: Yoshizawa, 2002e: 372 (Table 1). The suborder is subdivided into the following infraorders, superfamilies and families, the phylogeny of which is extensively discussed: Archipsocetae: Archipsocidae. Hemipsocetae: Hemipsocidae. Psocetae: Myopsocidae, Psilopsocidae, Psocidae. Homilopsocidea: Elipsocoidea: Elipsocidae; Lachesilloidea: Ectopsocidae, Lachesillidae; Pseudocaecilioidea: Trichopsocidae, Pseudocaeciliidae, Calopsocidae; Peripsocoidea: Bryopsocidae, Peripsocidae, Philotarsidae, Mesopsocidae. Epipsocetae: Cladiopsocidae, Ptiloneuridae, Dolabellopsocidae, Epipsocidae. Caeciliusetae: Asiopsocoidea: Asiopsocidae; Caeciliusoidea: Stenopsocidae, Amphipsocidae, Caeciliusidae.

Diagnoses of suborder, infraorders and superfamilies: Yoshizawa, 2002e: 394-398.

Epipsocidae

Phylogeny: Casasola Gonzalez & Garcia Aldrete, 2002.

Bertkauia spec. Mexico (IV): Reddell, 2001 (in cave).

Bertkauia lucifuga (Rambur). Germany (I): Schneider *et al.*, 2001. Great Britain (I): Saville, 2001b (phenol.). Ecol.:

Lienhard, 2002c (in cave).
Epipsocopsis Badonnel. Morph.: Yoshizawa, 2002e.
Epipsocus Hagen. Morph.: Yoshizawa, 2002e.
Epipsocus spec. Mexico (IV): Reddell, 2001 (in cave). Nicaragua (IV): Garcia Aldrete, 2001f.
Epipsocus badonneli Mockford. Nicaragua (IV): Garcia Aldrete, 2001f.
Epipsocus fasciicornis Okamoto. Deposition of type: Yoshizawa, 2002b (Hokkaido University Insect Collection).
Goja Navas. Genus definition, distribution, phylogeny, key to species: Casasola Gonzalez & Garcia Aldrete, 2002.
*Goja acuphhallica** Casasola Gonzalez & Garcia Aldrete, 2002: 43. Mexico (IV).
Goja aviceps (Badonnel). Fig.: Casasola Gonzalez & Garcia Aldrete, 2002.
*Goja bimaculata** Casasola Gonzalez & Garcia Aldrete, 2002: 45. Mexico (IV).
Goja bogotana (Roesler). Fig.: Casasola Gonzalez & Garcia Aldrete, 2002.
*Goja brailovskyana** Casasola Gonzalez & Garcia Aldrete, 2002: 47. Mexico (IV).
*Goja chilensis** Casasola Gonzalez & Garcia Aldrete, 2002: 51. Chile (V).
*Goja circumvittata** Casasola Gonzalez & Garcia Aldrete, 2002: 49. Venezuela (V).
*Goja cornuta** Casasola Gonzalez & Garcia Aldrete, 2002: 53. Venezuela (V).
Goja cubitalis (Mockford). Fig.: Casasola Gonzalez & Garcia Aldrete, 2002.
*Goja curvata** Casasola Gonzalez & Garcia Aldrete, 2002: 53. Mexico (IV).
Goja ditata Navas. Disc., Fig.: Casasola Gonzalez & Garcia Aldrete, 2002.
*Goja eertmoedi** Casasola Gonzalez & Garcia Aldrete, 2002: 56. Mexico (IV).
*Goja erwini** Casasola Gonzalez & Garcia Aldrete, 2002: 59. Peru (V).
*Goja guatemalensis** Casasola Gonzalez & Garcia Aldrete, 2002: 61. Guatemala (IV).
*Goja herrerae** Casasola Gonzalez & Garcia Aldrete, 2002: 63. Mexico (IV).
*Goja latiphallica** Casasola Gonzalez & Garcia Aldrete, 2002: 65. Costa Rica (IV).
*Goja longiareola** Casasola Gonzalez & Garcia Aldrete, 2002: 67. Venezuela (V).
*Goja longispinosa** Casasola Gonzalez & Garcia Aldrete, 2002: 69. Mexico (IV).
*Goja martinezi** Casasola Gonzalez & Garcia Aldrete, 2002: 71. Mexico (IV).
*Goja medellini** Casasola Gonzalez & Garcia Aldrete, 2002: 73. Mexico (IV).
*Goja mockfordi** Casasola Gonzalez & Garcia Aldrete, 2002: 75. Mexico (IV).
Goja molinai (Williner). Redescription (male): Casasola Gonzalez & Garcia Aldrete, 2002: 34. Bolivia (V).
*Goja montieli** Casasola Gonzalez & Garcia Aldrete, 2002: 78. Mexico (IV).
*Goja moyai** Casasola Gonzalez & Garcia Aldrete, 2002: 80. Mexico (IV).
Goja nebulosa (Roesler). Further description (male): Casasola Gonzalez & Garcia Aldrete, 2002: 36. Brazil (V).
*Goja obrienorum** Casasola Gonzalez & Garcia Aldrete, 2002: 82. Mexico (IV).
*Goja ochoteranae** Casasola Gonzalez & Garcia Aldrete, 2002: 84. Mexico (IV).
*Goja ocotensis** Casasola Gonzalez & Garcia Aldrete, 2002: 87. Mexico (IV).
*Goja oculatissima** Casasola Gonzalez & Garcia Aldrete, 2002: 89. Mexico, Belize (IV).
*Goja omiltemensis** Casasola Gonzalez & Garcia Aldrete, 2002: 91. Mexico (IV).
*Goja pallida** Casasola Gonzalez & Garcia Aldrete, 2002: 93. Ecuador (V).
Goja pechi (Williner). Fig.: Casasola Gonzalez & Garcia Aldrete, 2002.
Goja picta (Banks). Fig.: Casasola Gonzalez & Garcia Aldrete, 2002.
Goja plaumanni (Roesler). Further description: Casasola Gonzalez & Garcia Aldrete, 2002: 39. Brazil (V).
*Goja poblana** Casasola Gonzalez & Garcia Aldrete, 2002: 95. Mexico (IV).
*Goja reticulata** Casasola Gonzalez & Garcia Aldrete, 2002: 97. Mexico (IV).
*Goja reticulatoides** Casasola Gonzalez & Garcia Aldrete, 2002: 98. Mexico (IV).
*Goja robusta** Casasola Gonzalez & Garcia Aldrete, 2002: 101. Mexico (IV).
Goja semiaptera Mockford. Description of male: Casasola Gonzalez & Garcia Aldrete, 2002: 40. Venezuela (V). Note:
 On p. 43 one male and 3 females topotypes are incorrectly designated as allotype (male) and paratypes (females).
*Goja spiculata** Casasola Gonzalez & Garcia Aldrete, 2002: 101. Costa Rica (IV).
*Goja spinosissima** Casasola Gonzalez & Garcia Aldrete, 2002: 105. Mexico (IV).
*Goja ticana** Casasola Gonzalez & Garcia Aldrete, 2002: 107. Costa Rica (IV).
*Goja trinidadensis** Casasola Gonzalez & Garcia Aldrete, 2002: 109. Trinidad (V).
*Goja venezuelensis** Casasola Gonzalez & Garcia Aldrete, 2002: 109. Venezuela (V).
*Goja vittata** Casasola Gonzalez & Garcia Aldrete, 2002: 112. Mexico (IV).
Mesepipsocus spec. Nicaragua (IV): Garcia Aldrete, 2001f.
Mesepipsocus mobilis (Hagen). Ecol.: Lienhard, 2002c (in cave).
*Odontopsocus compactus** Lienhard, 2002a: 384. Colombia (V).

Neurostigmatidae

Neurostigma spec. Nicaragua (IV): Garcia Aldrete, 2001f.

Dolabellopsocidae

Dolabellopsocus Eertmoed. Morph.: Yoshizawa, 2002e.

Dolabellopsocus spec. Nicaragua (IV): Garcia Aldrete, 2001f.

Isthmopsocus Eertmoed. Morph.: Yoshizawa, 2002e.

Cladiopsocidae

Monophyly of the family not supported: Yoshizawa, 2002e.

Cladiopsocus Roesler. Morph.: Yoshizawa, 2002e.

Cladiopsocus spec. Nicaragua (IV): Garcia Aldrete, 2001f.

Spurostigma Eertmoed. Morph.: Yoshizawa, 2002e.

Spurostigma epiroticum Eertmoed. Nicaragua (IV): Garcia Aldrete, 2001f.

Spurostigma jimenezi Badonnel. Ecol.: Lienhard, 2002c (in cave).

Ptiloneuridae

Euplocania spec. Nicaragua (IV): Garcia Aldrete, 2001f.

*Euplocania zelayensis** Garcia Aldrete, 2001g:187. Nicaragua (IV).

Nicaragua (IV): Garcia Aldrete, 2001f.

Loneura spec. Nicaragua (IV): Garcia Aldrete, 2001f.

Ptiloneura Enderlein. Morph.: Yoshizawa, 2002e.

Triplocania Roesler. Morph.: Yoshizawa, 2002e.

*Triplocania maesi** Garcia Aldrete, 2000c: 171. Nicaragua (IV).

Nicaragua (IV): Garcia Aldrete, 2001f.

*Triplocania saslayensis** Garcia Aldrete, 2000c: 174. Nicaragua (IV).

Nicaragua (IV): Garcia Aldrete, 2001f.

Asiopsocidae

Asiopsocus Günther. Morph.: Yoshizawa, 2002e.

Notiopsocus Banks. Morph.: Yoshizawa, 2002e.

Caeciliusidae

Monophyly of the family not supported: Yoshizawa, 2002e.

Austrocaeciliini: new name for Kodamaiini: Yoshizawa, 2001b: 25.

Kodamaiina: Transfer to Amphipsocidae (as subfamily): Yoshizawa, 2001b: 2.

Aphyopsocus prolixus Smithers. Australia (IX): Williams, 2002.

Caecilius Curtis. Morph.: Yoshizawa, 2002e.

Caecilius fuscopterus (Latreille). Germany (I): Schneider *et al.*, 2001. Great Britain (I): Saville, 2001b (phenol.).

Hungary (I): Sziraki, 2001. Italy (I): Locatelli & Limonta, 2002b. Parasit.: Triapitsyn, 2002.

Dypsocus Hagen. Morph.: Yoshizawa, 2002e (misspelled *Dasypsocus* in Table 2 and Figs 69-72, 74).

Enderleinella hylobius (Smithers). Australia (IX): Williams, 2002.

Enderleinella obsoleta (Stephens). Great Britain (I): Saville, 2001b (phenol.). Hungary (I): Sziraki, 2001. Italy (I):

Locatelli & Limonta, 2002b.

Epicaecilius pilipennis (Lienhard). Great Britain (I): Saville, 2001a, 2001b (phenol.).

Kodamaius Okamoto. See family Amphipsocidae.

Lienhardiella dahli (Badonnel). Canary Islands (II): Baz & Zurita, 2001.

Maoripsocus concavistigma (Schmidt & Thornton). Australia (IX): Williams, 2002. Genet.: Shao *et al.*, 2001.

Maoripsocus griseus (Smithers). Australia (IX): Williams, 2002.

Maoripsocus macrostigma (Enderlein). Australia (IX): Williams, 2002.

Maoripsocus semifuscatus Tillyard. Australia (IX): Williams, 2002.

Maoripsocus tugloensis (Smithers). Australia (IX): Williams, 2002.

Paracaecilius spec. Garcia Aldrete, 2001f (p. 195, footnote): The mention of *Paracaecilius* spec. from Nicaragua by Maes & Garcia Aldrete (1998) is probably an error.

Anat.: Emeljanov *et al.*, 2001 (as *Caecilioidus* spec., misspelled *Caecilioides* on p. 67).

Paracaecilius lemuris Smithers. Australia (IX): Williams, 2002.

Stenocaecilius australis (Enderlein). Australia (IX): Williams, 2002.

Stenocaecilius casarum (Badonnel). Nicaragua (IV): Garcia Aldrete, 2001f: 195 (as *Valenzuela casarum*).

Stenocaecilius lineatus (Smithers). Australia (IX): Williams, 2002.

Stenocaecilius quercus (Edwards). Australia (IX): Williams, 2002. Genet.: Shao *et al.*, 2001.

Valenzuela spec. Nicaragua (IV): Garcia Aldrete, 2001f.

Valenzuela atricornis (McLachlan). Finland (I): Kanervo, 1996. Hungary (I): Sziraki, 2001. Italy (I): Locatelli & Limonta, 2002b.

Valenzuela burmeisteri (Brauer). Austria (I): Thaler & Knoflach, 2001. Czech Republic (I): Holusa, 2001a. Germany (I): Schneider *et al.*, 2001. Great Britain (I): Saville, 2001b (phenol.). Hungary (I): Sziraki, 2001. Luxembourg (I): Schneider, 2001. Canary Islands (II): Baz & Zurita, 2001.

Valenzuela corsicus (Kolbe). Redescription: Lienhard, 2002b: 690. France: Corsica (I).

Caecilius rhenanus Tetens. Synonymy: Lienhard, 2002b: 690.

Valenzuela despaxi (Badonnel). Czech Republic (I): Holusa, 2001a; Holusa & Znojil, 2002. Hungary (I): Sziraki, 2001. Luxembourg (I): Schneider, 2001.

Valenzuela flavidus (Stephens). Czech Republic (I): Holusa, 2001a. Germany (I): Schneider *et al.*, 2001. Great Britain (I): Saville, 2001b (phenol.). Hungary (I): Sziraki, 2001. Italy (I): Locatelli & Limonta, 2002b. Canary Islands (II): Baz & Zurita, 2001. Nicaragua (IV): Garcia Aldrete, 2001f. Biol.: Braig *et al.*, 2002 (parthenogenesis).

Parasit.: Triapitsyn, 2002.

Valenzuela fortunatus (Enderlein). Canary Islands (II): Baz & Zurita, 2001.

Valenzuela gracilis Okamoto. *Caecilius gracilis* Okamoto. Deposition of type: Yoshizawa, 2002b (Hokkaido University Insect Collection).

Valenzuela gynapterus (Tetens). Germany (I): Schneider *et al.*, 2001.

*Valenzuela labrostylus** Lienhard, 2002b: 688. France: Corsica (I). Generic placement doubtful, not assigned to one of the species groups defined by Mockford (2000).

Valenzuela okamotoi (Banks). *Caecilius annulicornis* Okamoto. Deposition of type: Yoshizawa, 2002b (Hokkaido University Insect Collection).

Valenzuela piceus (Kolbe). Great Britain (I): Saville, 2001b (phenol.). Hungary (I): Sziraki, 2001. Italy (I): Locatelli & Limonta, 2002b. Anat.: Emeljanov *et al.*, 2001.

Valenzuela pteridii (Smithers). Australia (IX): Williams, 2002.

Xanthocaecilius spec. Nicaragua (IV): Garcia Aldrete, 2001f.

Stenopsocidae

Graphopsocus Kolbe. Morph.: Yoshizawa, 2002e (misspelled *Graphocaecilius* in Table 2 and Figs 69-72, 74).

Graphopsocus cruciatus (Linnaeus). France (I): Anglade & Bigot, 2001. Germany (I): Schneider *et al.*, 2001. Great Britain (I): Saville, 2001b (phenol.). Hungary (I): Sziraki, 2001. Italy (I): Locatelli & Limonta, 2002b. Canary Islands (II): Baz & Zurita, 2001.

Graphopsocus mexicanus Enderlein. Nicaragua (IV): Garcia Aldrete, 2001f.

Stenopsocus Hagen. Morph.: Yoshizawa, 2002e (misspelled *Stenopsocus* in Table 2 and Figs 69-72, 74).

Stenopsocus albipileus Smithers. Australia (IX): Williams, 2002.

Stenopsocus immaculatus (Stephens). Germany (I): Schneider *et al.*, 2001. Great Britain (I): Saville, 2001b (phenol.). Hungary (I): Sziraki, 2001. Italy (I): Locatelli & Limonta, 2002b. Luxembourg (I): Schneider, 2001. Parasit.: Triapitsyn, 2002.

Stenopsocus lachlani Kolbe, 1880. Czech Republic (I): Holusa, 2001a. Great Britain (I): Saville, 2001a, 2001b (phenol.).

Stenopsocus nigricellus Okamoto. Deposition of type: Yoshizawa, 2002b (Hokkaido University Insect Collection).

Stenopsocus stigmaticus (Imhoff & Labram). Hungary (I): Sziraki, 2001. Italy (I): Locatelli & Limonta, 2002b. Luxembourg (I): Schneider, 2001. Parasit.: Triapitsyn, 2002.

Amphipsocidae

Diagnosis (p. 2), phylogeny (p. 22): Yoshizawa, 2001b.

Kodamainae: Subfamily of Amphipsocidae (former subtribe Kodamaina of Caeciliusidae), diagnosis: Yoshizawa, 2001b: 2.

Dasydemellinae: Subfamily of Amphipsocidae (former family Dasydemellidae), diagnosis: Yoshizawa, 2001b: 8.

Amphipsocinae: Diagnosis: Yoshizawa, 2001b: 13.

Amphipsocus McLachlan. Diagnosis: Yoshizawa, 2001b: 16. Morph.: Yoshizawa, 2002e.

Amphipsocus formosanus Okamoto. Deposition of type: Yoshizawa, 2002b (Hokkaido University Insect Collection).

Amphipsocus japonicus (Enderlein). Redescription: Yoshizawa, 2001b: 16. Japan (VIII). Chrom.: Golub & Nokkala, 2001 [two species are dealt with, called *A. japonicus* (End.) and *Dasypsocus japonicus* End., two different combinations of the same specific name; if they are different, the name *japonicus* End. could only be applied to one of them (cf. Lienhard & Smithers, 2002: 211)].

Amphipsocus rubrostigma Okamoto. Synonymy: Yoshizawa, 2001b: 16 (see also remark in Yoshizawa, 2002d: 7). Deposition of type: Yoshizawa, 2001b, 2002b (Hokkaido University Insect Collection).

Dasydemella spec. Nicaragua (IV): Garcia Aldrete, 2001f.

Dasypsocus Enderlein. Morph.: Yoshizawa, 2002e.

Dasypsocus spec. Nicaragua (IV): Garcia Aldrete, 2001f.

Kodamaius Okamoto. Transfer from Caeciliusidae, diagnosis: Yoshizawa, 2001b: 3. Morph.: Yoshizawa, 2002e.

Kodamaius brevicornis Okamoto. Diagnosis: Yoshizawa, 2001b: 8, 25. Taiwan (VIII). (Synonymy with *K. pilosus* Okamoto rejected). Apparently not known from Japan: Yoshizawa, 2001b: 8.

Kodamaius pilosus Okamoto. Redescription: Yoshizawa, 2001b: 3. Japan (VIII). (Synonymy with *K. brevicornis* Okamoto rejected). Deposition of type: Yoshizawa, 2001b, 2002b (Hokkaido University Insect Collection).

Kolbia Bertkau. Diagnosis: Yoshizawa, 2001b: 13. Morph.: Yoshizawa, 2002e.

Kolbia fusconervosa Enderlein. Redescription: Yoshizawa, 2001b: 14. Japan (VIII).

Kolbia quisquiliarum Bertkau. Czech Republic (I): Holusa & Znojil, 2002. Germany (I): Schneider *et al.*, 2001. Hungary (I): Sziraki, 2001.

Matsumuraiella Enderlein. Diagnosis: Yoshizawa, 2001b: 8. Morph.: Yoshizawa, 2002e.

Matsumuraiella radiopicta Enderlein. Redescription: Yoshizawa, 2001b: 9. Japan (VIII). Information on some original labels (with photograph): Yoshizawa, 2002d.

Polypsocus spec. Nicaragua (IV): Garcia Aldrete, 2001f.

Taeniosigma trickettae Smithers. Australia (IX): Williams, 2002.

Dasydemellidae

Transferred to Amphipsocidae as subfamily Dasydemellinae: Yoshizawa, 2001b: 8.

Lachesillidae

Monophyly of the family (including *Eolachesilla*) not supported: Yoshizawa, 2002e.

Anomopsocus spec. a. Nicaragua (IV): Garcia Aldrete, 2001f.

Eolachesilla Badonnel. Morph.: Yoshizawa, 2002e (genus declared incertae sedis, may represent its own family).

Lachesilla Westwood. Morph.: Yoshizawa, 2002e. Definition of *rena* species complex within *pedicularia* group: Mockford, 2002a: 149.

Lachesilla spec. Nicaragua (IV): Garcia Aldrete, 2001f (spec. of *pedicularia* group).

Lachesilla acuminiforceps Garcia Aldrete. Nicaragua (IV): Garcia Aldrete, 2001f.

Lachesilla aethiopica (Enderlein). Nicaragua (IV): Garcia Aldrete, 2001f.

*Lachesilla anahuacensis** Mockford, 2002a: 155. Mexico, Nicaragua (IV).

Lachesilla rena Sommerman. Garcia Aldrete, 1974a: Figs 196, 197, 198 (cf. Mockford, 2002a: 156).

[Not *Lachesilla rena* Sommerman, 1946].

*Lachesilla asperiforceps** Garcia Aldrete, 2001f: 181. Nicaragua, Guatemala, Mexico (IV).

Lachesilla bernardi Badonnel. Hungary (I): Sziraki, 2001. Italy (I): Locatelli & Limonta, 2002b.

Lachesilla centralis Garcia Aldrete. Nicaragua (IV): Garcia Aldrete, 2001f.

Lachesilla forcipata Garcia Aldrete. Nicaragua (IV): Garcia Aldrete, 2001f.

Lachesilla forcepeta Chapman. Not known from Nicaragua, cf. Garcia Aldrete, 2001f (p. 196: footnote).

*Lachesilla hirsuta** Lienhard, 2002a: 388. Thailand (VIII).

*Lachesilla huasteca** Mockford, 2002a: 151. Mexico, Puerto Rico (IV); USA: Florida (III).

Lachesilla rena Sommerman. Mockford, 1993a: Fig. 660 (cf. Mockford, 2002a: 153).

[Not *Lachesilla rena* Sommerman, 1946].

Lachesilla meinanderi Lienhard. Canary Islands (II): Baz & Zurita, 2001.

*Lachesilla mombachensis** Garcia Aldrete, 2001f: 184. Nicaragua (IV).

Lachesilla nevermanni (Navas). Nicaragua (IV): Garcia Aldrete, 2001f.

Lachesilla forcepeta Chapman. Maes & Garcia Aldrete, 1998. See Garcia Aldrete, 2001f (p. 196: footnote).

[Not *Lachesilla forcepeta* Chapman, 1930].

*Lachesilla oaxacana** Garcia Aldrete, 2001e: 1003. Mexico (IV).

*Lachesilla otomi** Mockford, 2002a: 153. Guatemala, Mexico, Nicaragua (IV); USA: Florida (III).

Lachesilla rena Sommerman. Garcia Aldrete, 1974a: Fig. 189 (cf. Mockford, 2002a: 155).

Lachesilla rena Sommerman. Mockford, 1993a: Fig. 214 (cf. Mockford, 2002a: 155).

[Not *Lachesilla rena* Sommerman, 1946].

Lachesilla pedicularia (Linnaeus). Czech Republic (I): Holusa, 2001a. Germany (I): Schneider *et al.*, 2001. Great Britain (I): Saville, 2001b (phenol.). Hungary (I): Sziraki, 2001. Italy (I): Locatelli & Limonta, 2002b. Canary Islands (II): Baz & Zurita, 2001.

Lachesilla penta Sommerman. Nicaragua (IV): Garcia Aldrete, 2001f.

Lachesilla quercus (Kolbe). Germany (I): Schneider *et al.*, 2001. Hungary (I): Sziraki, 2001. Italy (I): Locatelli & Limonta, 2002b. Luxembourg (I): Schneider, 2001. Canary Islands (II): Baz & Zurita, 2001.

Lachesilla rena Sommerman. Nicaragua (IV): Garcia Aldrete, 2001f.

Lachesilla rena Sommerman. Mockford, 2002a: 156 (redescription and revised distribution). USA (III); Mexico, Haiti (IV).

Lachesilla riegei Sommerman. Nicaragua (IV): Garcia Aldrete, 2001f.

Lachesilla sandersoni Mockford. Nicaragua (IV): Garcia Aldrete, 2001f.

Lachesilla silvatica Garcia Aldrete. Nicaragua (IV): Garcia Aldrete, 2001f.

Lachesilla tanaidana Roesler. Czech Republic (I): Holusa, 2001c.

*Lachesilla tapiabarquerói** Garcia Aldrete, 2001f: 188. Nicaragua (IV).

Lachesilla tectorum Badonnel. Canary Islands (II): Baz & Zurita, 2001. Nicaragua (IV): Garcia Aldrete, 2001f.

Lachesilla tropica Garcia Aldrete. Nicaragua (IV): Garcia Aldrete, 2001f.

Lachesilla wongae Garcia Aldrete. Nicaragua (IV): Garcia Aldrete, 2001f.

*Lachesilla xalapensis** Garcia Aldrete, 2001e: 1000. Mexico (IV).

*Lachesilla yucateca** Mockford, 2002a: 158. Mexico (IV).

Nadleria gamma Mockford. Belize (IV): Garcia Aldrete, 2001d.

Nadleria mariateresae Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2001b.

Nanolachesilla Mockford & Sullivan. Morph.: Yoshizawa, 2002e.

Prolachesilla mediana Mockford & Sullivan. Nicaragua (IV): Garcia Aldrete, 2001f.

Prolachesilla mexicana Mockford & Sullivan. Nicaragua (IV): Garcia Aldrete, 2001f.

Prolachesilla pallida Mockford & Sullivan. Nicaragua (IV): Garcia Aldrete, 2001f.

Ectopsocidae

*Belipsocus*** Garcia Aldrete, 2002b: 2. Gender: M. Type species: *Belipsocus chiquibulensis* Garcia Aldrete.

*Belipsocus chiquibulensis** Garcia Aldrete, 2002b: 2. Belize (IV).

Ectopsocus McLachlan. Morph.: Yoshizawa, 2002e.

Ectopsocus spec. Nicaragua (IV): Garcia Aldrete, 2001f. Ecol.: Lienhard, 2002c (in cave).

Ectopsocus albiceps Smithers. Australia (IX): Williams, 2002.

Ectopsocus aldretei Smithers. Australia (IX): Williams, 2002.

Ectopsocus australis Schmidt & Thornton. Australia (IX): Williams, 2002.
Ectopsocus axillaris (Smithers). Great Britain (I): Saville, 2001a, 2001b (phenol.).
Ectopsocus briggsi McLachlan. Germany (I): Schneider *et al.*, 2001. Great Britain (I): Saville, 2001b (phenol.). Italy (I): Locatelli & Limonta, 2002b. Canary Islands (II): Baz & Zurita, 2001. Australia (IX): Williams, 2002.
Ectopsocus brunneus (Edwards). Australia (IX): Williams, 2002.
Ectopsocus californicus (Banks). Australia (IX): Williams, 2002.
Ectopsocus edwardsi New. Australia (IX): Williams, 2002.
Ectopsocus hartleyi Smithers. Australia (IX): Williams, 2002.
Ectopsocus maindroni Badonnel. Nicaragua (IV): Garcia Aldrete, 2001f.
Ectopsocus meridionalis Ribaga. Germany (I): Schneider *et al.*, 2001. Hungary (I): Sziraki, 2001.
Ectopsocus perplexus Smithers. Australia (IX): Williams, 2002.
Ectopsocus petersi Smithers. Great Britain (I): Saville, 2001a, 2001b (phenol.).
Ectopsocus pilosoides Smithers. Australia (IX): Williams, 2002.
Ectopsocus pteridii Smithers. Australia (IX): Williams, 2002.
Ectopsocus punctatus Thornton & Wong. Australia (IX): Williams, 2002.
Ectopsocus strauchii Enderlein. Canary Islands (II): Baz & Zurita, 2001. Selvagens Islands (II): Arechavaleta *et al.*, 2001.
Ectopsocus vachoni Badonnel. Canary Islands (II): Baz & Zurita, 2001.
*Ectopsocus venosus** Lienhard, 2002a: 391. Malaysia (VIII).
Ectopsocus vilhenai Badonnel. Nicaragua (IV): Garcia Aldrete, 2001f.

Peripsocidae

Cycloperipsocus edwardsi (New). Australia (IX): Williams, 2002.
Kaestneriella Roesler. Morph.: Yoshizawa, 2002e.
Peripsocus Hagen. Morph.: Yoshizawa, 2002e.
Peripsocus spec. Nicaragua (IV): Garcia Aldrete, 2001f.
Peripsocus alboguttatus (Dalman). Great Britain (I): Saville, 2001b (phenol.). Hungary (I): Sziraki, 2001. Italy (I): Locatelli & Limonta, 2002a, 2002b.
Peripsocus bifasciatus Schmidt & Thornton. Australia (IX): Williams, 2002.
Peripsocus bivari Baz. Canary Islands (II): Baz & Zurita, 2001.
Peripsocus didymus Roesler. Great Britain (I): Saville, 2001b (phenol.). Hungary (I): Sziraki, 2001. Italy (I): Locatelli & Limonta, 2002a, 2002b.
Peripsocus hamiltonae Smithers. Australia (IX): Williams, 2002.
Peripsocus hickmani New. Australia (IX): Williams, 2002.
Peripsocus maoricus (Tillyard). Australia (IX): Williams, 2002.
Peripsocus melaleucae New. Australia (IX): Williams, 2002.
Peripsocus milleri (Tillyard). Canary Islands (II): Baz & Zurita, 2001. Australia (IX): Williams, 2002.
Peripsocus morulops (Tillyard). Australia (IX): Williams, 2002.
Peripsocus notialis Smithers. Australia (IX): Williams, 2002.
Peripsocus parvulus Kolbe. Germany (I): Schneider *et al.*, 2001. Luxembourg (I): Schneider, 2001.
Peripsocus phaeopterus (Stephens). Great Britain (I): Saville, 2001b (phenol.). Hungary (I): Sziraki, 2001. Italy (I): Locatelli & Limonta, 2002a, 2002b. Canary Islands (II): Baz & Zurita, 2001.
Peripsocus roseus Smithers. Australia (IX): Williams, 2002.
Peripsocus subfasciatus (Rambur). Czech Republic (I): Holusa, 2001a. Finland (I): Silfverberg, 2001. Germany (I): Schneider *et al.*, 2001. Great Britain (I): Saville, 2001b (phenol.). Hungary (I): Sziraki, 2001. Italy (I): Locatelli & Limonta, 2002a, 2002b. Luxembourg (I): Schneider, 2001.
Peripsocus tillyardi New. Australia (IX): Williams, 2002.

Calopsocidae

Calopsocus Hagen. Morph.: Yoshizawa, 2002e.

Trichopsocidae

Trichopsocus Kolbe. Morph.: Yoshizawa, 2002e.
Trichopsocus clarus (Banks). Canary Islands (II): Baz & Zurita, 2001. New Zealand (IX): Smithers, 2002a.
Trichopsocus australis Edwards. Synonymy: Smithers, 2002a: 155.
Trichopsocus dali (McLachlan). Great Britain (I): Saville, 2001b (phenol.). Luxembourg (I): Schneider, 2001.

Archipsocidae

Archipsocus Hagen. Morph.: Yoshizawa, 2002e.
Archipsocus spec. Nicaragua (IV): Garcia Aldrete, 2001f.
Pararchipsocus Badonnel, Mockford & Garcia Aldrete. Morph.: Yoshizawa, 2002e.
Pararchipsocus spec. Nicaragua (IV): Garcia Aldrete, 2001f.

Pseudocaeciliidae

Monophyly of the family not supported: Yoshizawa, 2002e.

Austropsocus antennalis Thornton & New. Australia (IX): Williams, 2002.
Austropsocus costalis Thornton & New. Australia (IX): Williams, 2002.
Austropsocus cuneatus Thornton & New. Australia (IX): Williams, 2002.
Austropsocus omega Thornton & New. Australia (IX): Williams, 2002.
Austropsocus sinuosus (Banks). Australia (IX): Williams, 2002.
Austropsocus suffusus Thornton & New. Australia (IX): Williams, 2002.
Austropsocus tibialis Thornton & New. Australia (IX): Williams, 2002.
Austropsocus viridis (Enderlein). Australia (IX): Williams, 2002.
Chorocaecilius brunellus (Tillyard). Australia (IX): Williams, 2002.
Cladioneura pulchripennis Enderlein. Australia (IX): Williams, 2002.
Heterocaecilius Lee & Thornton. Morph.: Yoshizawa, 2002e.
Heterocaecilius lachlani (Enderlein). Australia (IX): Williams, 2002.
Heterocaecilius mouldsi Smithers. Australia (IX): Williams, 2002.
Heterocaecilius rotundus Smithers. Australia (IX): Williams, 2002.
Lobocaecilius monicus Lee & Thornton. Australia (IX): Williams, 2002.
Mepleres spec. Australia (IX): Williams, 2002.
Mepleres alettae (Smithers). Australia (IX): Williams, 2002.
Mepleres crenulatus (New). Australia (IX): Williams, 2002.
Mepleres medialis (Banks). Australia (IX): Williams, 2002.
Mepleres papillosus (Schmidt & Thornton). Australia (IX): Williams, 2002.
Mepleres rotundatus (New). Australia (IX): Williams, 2002.
Mepleres tanei (Smithers). Australia (IX): Williams, 2002. Genet.: Shao *et al.*, 2001.
Mepleres yenoides (Schmidt & Thornton). Australia (IX): Williams, 2002.
Mesocaecilius quadrimaculatus Okamoto. Deposition of type: Yoshizawa, 2002b (Hokkaido University Insect Collection).
Ophiodopelma Enderlein. Morph.: Yoshizawa, 2002e.
Pseudocaecilius Enderlein. Morph.: Yoshizawa, 2002e.
Pseudocaecilius citricola (Ashmead). Nicaragua (IV): Garcia Aldrete, 2001f.
Pseudocaecilius kagoshimensis (Okamoto). *Kolbea kagoshimensis* Okamoto. Deposition of type: Yoshizawa, 2002b (Hokkaido University Insect Collection).
Scytosopus spec. Nicaragua (IV): Garcia Aldrete, 2001f.

Bryopsocidae

Bryopsocus Thornton, Wong & Smithers. Morph.: Yoshizawa, 2002e.

Philotarsidae

Aaroniella Mockford. Morph.: Yoshizawa, 2002e.
Aaroniella spec. Nicaragua (IV): Garcia Aldrete, 2001f.
Aaroniella rawlingsi Smithers. Australia (IX): Williams, 2002.
Haplophallus leptus Thornton & New. Australia (IX): Williams, 2002.
Haplophallus sinus Thornton & New. Australia (IX): Williams, 2002.
Philotarsopsis bundoorensis (New). Australia (IX): Williams, 2002.
Philotarsopsis guttata (Tillyard). Australia (IX): Williams, 2002.
Philotarsopsis lemsidia (Thornton & New). Australia (IX): Williams, 2002.
Philotarsopsis medialis (Thornton & New). Australia (IX): Williams, 2002.
Philotarsopsis ornata (Thornton & New). Australia (IX): Williams, 2002.
Philotarsopsis paraguttata (Thornton & New). Australia (IX): Williams, 2002.
Philotarsus Kolbe. Morph.: Yoshizawa, 2002e.
Philotarsus spec. Nicaragua (IV): Garcia Aldrete, 2001f.
Philotarsus parviceps Roesler. Czech Republic (I): Holusa & Znojil, 2002. Great Britain (I): Saville, 2001a, 2001b (phenol.). Italy (I): Locatelli & Limonta, 2002b. Slovakia (I): Holusa & Znojil, 2002; Holusa & Holusa, 2002a.
Philotarsus picicornis (Fabricius). Czech Republic (I): Holusa, 2001a. Germany (I): Schneider *et al.*, 2001. Great Britain (I): Saville, 2001b (phenol.). Hungary (I): Sziraki, 2001. Italy (I): Locatelli & Limonta, 2002b. Luxembourg (I): Schneider, 2001.

Elipsocidae

Cuneopalpus cyanops (Rostock). Germany (I): Schneider *et al.*, 2001. Great Britain (I): Saville, 2001b (phenol.).
Elipsocus Hagen. Morph.: Yoshizawa, 2002e.
Elipsocus abdominalis Reuter. Germany (I): Schneider *et al.*, 2001. Great Britain (I): Saville, 2001b (phenol.). Italy (I): Locatelli & Limonta, 2002b.
Elipsocus annulatus Roesler. Germany (I): Schneider *et al.*, 2001.
Elipsocus coloripennis Lienhard. Canary Islands (II): Baz & Zurita, 2001.
Elipsocus fasciatus (Navas). Canary Islands (II): Baz & Zurita, 2001.
Elipsocus hyalinus (Stephens). France (I): Anglade & Bigot, 2001. Germany (I): Schneider *et al.*, 2001. Great Britain

(I): Saville, 2001b (phenol.). Italy (I): Locatelli & Limonta, 2002b.
Elipsocus lanceoticus Baz. Canary Islands (II): Baz & Zurita, 2001.
Elipsocus moebiusi Tetens. Czech Republic (I): Holusa, 2001a. Germany (I): Schneider *et al.*, 2001. Great Britain (I): Saville, 2001a, 2001b (phenol.). Slovakia (I): Holusa & Holusa, 2002b.
Elipsocus pumilis (Hagen). Germany (I): Schneider *et al.*, 2001. Great Britain (I): Saville, 2001b (phenol.). Italy (I): Locatelli & Limonta, 2002b.
Hemineura Tetens. Morph.: Yoshizawa, 2002e.
Hemineura wittmeri Badonnel. Canary Islands (II): Baz & Zurita, 2001.
Paedomorpha gayi Smithers. Australia (IX): Williams, 2002.
Palmicola vinai Badonnel. Ecol.: Lienhard, 2002c (in cave).
Pentacladus eucalypti Enderlein. Australia (IX): Williams, 2002.
Protopsocus pulchripennis (Perkins). Australia (IX): Williams, 2002.
Pseudopsocus rostocki Kolbe. Germany (I): Schneider *et al.*, 2001.
Reuterella helvimacula (Enderlein). Czech Republic (I): Holusa, 2001a (misspelled *R. helvimaculata*). Germany (I): Schneider *et al.*, 2001. Great Britain (I): Saville, 2001b (phenol.).
Spilopsocus ruidus Smithers. Australia (IX): Williams, 2002.

Mesopsocidae

Cyrtopsocus canariensis (Meinander). Canary Islands (II): Baz & Zurita, 2001.
Cyrtopsocus gibbosus Lienhard. Canary Islands (II): Baz & Zurita, 2001.
Cyrtopsocus truncatus Lienhard. Canary Islands (II): Baz & Zurita, 2001.
Idatenopsocus Yoshizawa & Lienhard. Morph.: Yoshizawa, 2002e.
Mesopsocus Kolbe. Morph.: Yoshizawa, 2002e.
Mesopsocus helveticus Lienhard. Finland (I): Kanervo, 2002b.
Mesopsocus immunis (Stephens). Great Britain (I): Saville, 2001b (phenol.). Hungary (I): Sziraki, 2001.
Mesopsocus laterimaculatus Ball. Canary Islands (II): Baz & Zurita, 2001.
Mesopsocus laticeps (Kolbe). Germany (I): Schneider *et al.*, 2001. Hungary (I): Sziraki, 2001. Italy (I): Locatelli & Limonta, 2002b.
Mesopsocus unipunctatus (Müller). Czech Republic (I): Holusa, 2001a. Germany (I): Schneider *et al.*, 2001. Great Britain (I): Saville, 2001b (phenol.). Italy (I): Locatelli & Limonta, 2002b. Luxembourg (I): Schneider, 2001.
Mesopsocus wardi Meinander. Canary Islands (II): Baz & Zurita, 2001.
Psoculus neglectus (Roesler). Canary Islands (II): Baz & Zurita, 2001.

Hemipsocidae

Hemipsocus Selys-Longchamps. Morph.: Yoshizawa, 2002e.
Hemipsocus chloroticus (Hagen). Genet.: Shao *et al.*, 2001.
Hemipsocus africanus Enderlein. Nicaragua (IV): Garcia Aldrete, 2001f.

Psocidae

Biogeography: Endang *et al.*, 2002 (Indonesian Psocidae).

Amphigerontiinae

Amphigerontia spec. Nicaragua (IV): Garcia Aldrete, 2001f.
Amphigerontia bifasciata (Latreille). Czech Republic (I): Holusa, 2001a. Germany (I): Schneider *et al.*, 2001. Great Britain (I): Saville, 2001b (phenol.). Italy (I): Locatelli & Limonta, 2002b.
Amphigerontia contaminata (Stephens). Germany (I): Schneider *et al.*, 2001. Great Britain (I): Saville, 2001b (phenol.). Italy (I): Locatelli & Limonta, 2002b. Canary Islands (II): Baz & Zurita, 2001.
Amphigerontia intermedia (Tetens). Finland (I): Silfverberg, 2001.
Amphigerontia lata Enderlein. Indonesia (VIII): Endang *et al.*, 2002.
*Anomaloblaste*** Endang Sri Kentjonowati, Thornton & New, 2002: 120. Gender: F. Type species: *Anomaloblaste spinivalva* Endang Sri Kentjonowati, Thornton & New.
*Anomaloblaste spinivalva** Endang Sri Kentjonowati, Thornton & New, 2002: 120. Indonesia (VIII).
*Anomaloblaste treubia** Endang Sri Kentjonowati, Thornton & New, 2002: 120. Indonesia (VIII).
Blaste spec. Nicaragua (IV): Garcia Aldrete, 2001f.
Blaste binotata (Enderlein). Indonesia (VIII): Endang *et al.*, 2002.
Blaste bistrinata Schmidt & Thornton. Australia (IX): Williams, 2002.
Blaste conspurcata (Rambur). Hungary (I): Sziraki, 2001.
Blaste falcifer Smithers. Australia (IX): Williams, 2002.
Blaste lignicola (Enderlein). Australia (IX): Williams, 2002.
Blaste taylori New. Australia (IX): Williams, 2002.
Blaste tillyardi Smithers. Australia (IX): Williams, 2002.
Blastopsocus spec. Nicaragua (IV): Garcia Aldrete, 2001f.
*Indoblaste discoloba** Endang Sri Kentjonowati, Thornton & New, 2002: 112. Indonesia (VIII).
*Indoblaste lawuensis** Endang Sri Kentjonowati, Thornton & New
Indoblaste lawuense [sic!] Endang Sri Kentjonowati, Thornton & New, 2002: 111. Indonesia (VIII).

Indoblaste lienhardi Endang Sri Kentjonowati & Thornton. Indonesia (VIII): Endang *et al.*, 2002.
Indoblaste sastrawani Endang Sri Kentjonowati & Thornton. Indonesia (VIII): Endang *et al.*, 2002.
*Javablaste*** Endang Sri Kentjonowati, Thornton & New, 2002: 121. Gender: F. Type species: *Javablaste aidab*
 Endang Sri Kentjonowati, Thornton & New.
Javablaste spec. Indonesia (VIII): Endang *et al.*, 2002.
*Javablaste aidab** Endang Sri Kentjonowati, Thornton & New, 2002: 122. Indonesia (VIII).
*Javablaste merapiensis** Endang Sri Kentjonowati, Thornton & New, 2002: 122. Indonesia (VIII).
Kaindipsocus emarginatus Smithers. Australia (IX): Williams, 2002.
Kaindipsocus marksae Smithers. Australia (IX): Williams, 2002.
Lasiopsocus hollowayi Smithers. Australia (IX): Williams, 2002.
Neoblaste alticola Thornton. Indonesia (VIII): Endang *et al.*, 2002.
Neoblaste brunnea Endang Sri Kentjonowati & Thornton. Indonesia (VIII): Endang *et al.*, 2002.
*Neoblaste complexa** Endang Sri Kentjonowati, Thornton & New, 2002: 118. Indonesia (VIII).
Neoblaste cubitalis (Enderlein). Indonesia (VIII): Endang *et al.*, 2002.
*Neoblaste javensis** Endang Sri Kentjonowati, Thornton & New
Neoblaste javense [sic!] Endang Sri Kentjonowati, Thornton & New, 2002: 114. Indonesia (VIII).
*Neoblaste parasetosa** Endang Sri Kentjonowati, Thornton & New, 2002: 117. Indonesia (VIII).
*Neoblaste soehardjani** Endang Sri Kentjonowati, Thornton & New, 2002: 116. Indonesia (VIII).
*Neoblaste timorensis** Endang Sri Kentjonowati, Thornton & New
Neoblaste timorensis [sic!] Endang Sri Kentjonowati, Thornton & New, 2002: 118. Indonesia (VIII).

Psocinae

Cerastipsocini

Cerastipsocus trifasciatus (Provancher). Nicaragua (IV): Garcia Aldrete, 2001f.
Cervopsocus medialis New. Belize (IV): Garcia Aldrete, 2001d.
Clematoscenea lemniscata (Enderlein). Indonesia (VIII): Endang *et al.*, 2002.
Dinopsocus atratus Banks. Indonesia (VIII): Endang *et al.*, 2002. NOTE: The authors don't mention any new record from Indonesia. On the island of Borneo this species has only been recorded from the Malaysian part (cf. Banks, 1920: Sandakan). As far as I know, Sandakan (Sabah) is the only exact locality from Borneo mentioned in the literature; the species is also known from the Philippines (cf. Lienhard & Smithers, 2002: p. 400).
Psococerastis spec. Nicaragua (IV): Garcia Aldrete, 2001f.
Psococerastis annae Thornton. Indonesia (VIII): Endang *et al.*, 2002.
*Psococerastis aspinosa** Endang Sri Kentjonowati, Thornton & New, 2002: 127. Indonesia (VIII).
*Psococerastis bispinosa** Endang Sri Kentjonowati, Thornton & New, 2002: 128. Indonesia (VIII).
Psococerastis capitata (Okamoto). *Psocus capitatus* Okamoto. Deposition of type: Yoshizawa, 2002b (as *P. capitatus*, incorrect spelling) (Hokkaido University Insect Collection).
Psococerastis ficivorella (Okamoto). *Amphigerontia ficivorella* Okamoto. Deposition of type: Yoshizawa, 2002b (Hokkaido University Insect Collection).
Psococerastis gibbosa (Sulzer). Germany (I): Schneider *et al.*, 2001. Great Britain (I): Saville, 2001b (phenol.). Hungary (I): Sziraki, 2001. Italy (I): Locatelli & Limonta, 2002b. Anat.: Emeljanov *et al.*, 2001.
*Psococerastis lifashengi** Endang Sri Kentjonowati, Thornton & New, 2002: 126. Indonesia (VIII).
Psococerastis lombokensis (Navas). Indonesia (VIII): Endang *et al.*, 2002.
Psococerastis luroris (Soehardjan & Hamann). Indonesia (VIII): Endang *et al.*, 2002.
Psococerastis mali (Okamoto). *Psocus mali* Okamoto. Deposition of type: Yoshizawa, 2002b (Hokkaido University Insect Collection).
Psococerastis nubila (Enderlein). Morph.: Yoshizawa & Saigusa, 2001 (Figs 2 and 9A).
Psocus grandis Okamoto. Deposition of type: Yoshizawa, 2002b (Hokkaido University Insect Collection).
Psococerastis opulenta (Navas). Nicaragua (IV): Garcia Aldrete, 2001f.
Setopsocus hirsutus (New). Endang *et al.*, 2002: 129 (from *Psocidus*; further description). Indonesia (VIII).

Cycetini

Cycetes thyrsophoroides Enderlein. Indonesia (VIII): Endang *et al.*, 2002.

Metylophorini

Metylophorus spec. Nicaragua (IV): Garcia Aldrete, 2001f.
*Metylophorus elongatus** Endang Sri Kentjonowati, Thornton & New, 2002: 133. Indonesia (VIII).
*Metylophorus javensis** Endang Sri Kentjonowati, Thornton & New, 2002: 136. Indonesia (VIII).
*Metylophorus latespinosus** Endang Sri Kentjonowati, Thornton & New, 2002: 135. Indonesia (VIII).
Metylophorus lisae Thornton. Indonesia (VIII): Endang *et al.*, 2002 (further description).
Metylophorus nebulosus (Stephens). Germany (I): Schneider *et al.*, 2001. Great Britain (I): Saville, 2001b (phenol.). Hungary (I): Sziraki, 2001. Italy (I): Locatelli & Limonta, 2002b.
Sigmatoneura Enderlein. Morph.: Yoshizawa, 2002e (erroneously called *Psocidus* on p. 373, cf. Yoshizawa *in litt.* 2002).
Sigmatoneura basalis Endang Sri Kentjonowati & Thornton. Indonesia (VIII): Endang *et al.*, 2002.
Sigmatoneura formosa (Banks). Australia (IX): Williams, 2002.

Sigmatoneura kolbei (Enderlein). Indonesia (VIII): Endang *et al.*, 2002. – *Cerastipsocus singularis* Okamoto. Deposition of type: Yoshizawa, 2002b (Hokkaido University Insect Collection).
Sigmatoneura mitsuhashiana (Okamoto). *Psocus mitsuhashianus* Okamoto. Deposition of type: Yoshizawa, 2002b (Hokkaido University Insect Collection).
Sigmatoneura scitula Smithers & Thornton. Indonesia (VIII): Endang *et al.*, 2002.
Sigmatoneura subcostalis (Enderlein). Indonesia (VIII): Endang *et al.*, 2002.

Psocini

Atrichadenotecnum nebulosum (Vaughan, Thornton & New). Endang *et al.*, 2002: 141 (from *Trichadenotecnum*; further description). Indonesia (VIII).
Atrichadenotecnum umbratum (New). Endang *et al.*, 2002: 143 (from *Trichadenotecnum*). Malaysia (VIII).
*Atrichadenotecnum yoshizawai** Endang Sri Kentjonowati, Thornton & New, 2002: 142. Indonesia (VIII).
Psocidus Pearman. See tribe Ptyctini.
Psocus Latreille. Morph.: Yoshizawa, 2002e.
Psocus bipunctatus (Linnaeus). Germany (I): Schneider *et al.*, 2001. Hungary (I): Sziraki, 2001. Biol.: Braig *et al.*, 2002 (parthenogenesis).

Ptyctini

Atlantopsocus adustus (Hagen). Canary Islands (II): Baz & Zurita, 2001.
Atlantopsocus personatus (Hagen). Canary Islands (II): Baz & Zurita, 2001.
Atlantopsocus semicircularis Baz. Canary Islands (II): Baz & Zurita, 2001.
Atlantopsocus triangularis Meinander. Canary Islands (II): Baz & Zurita, 2001.
Clematostigma hyalinum (Okamoto). *Copostigma hyalinum* Okamoto. Deposition of type: Yoshizawa, 2002b (Hokkaido University Insect Collection).
Clematostigma lunulatum Schmidt & Thornton. Australia (IX): Williams, 2002. Genet.: Shao *et al.*, 2001.
Clematostigma maculiceps (Enderlein). Australia (IX): Williams, 2002.
*Clematostigma sasmoko** Endang Sri Kentjonowati, Thornton & New, 2002: 144. Indonesia (VIII).
Clematostigma striatum Schmidt & Thornton. Australia (IX): Williams, 2002.
Clematostigma subcostale (Okamoto). *Copostigma subcostale* Okamoto. Deposition of type: Yoshizawa, 2002b (Hokkaido University Insect Collection).
Indiopsocus spec. Nicaragua (IV): Garcia Aldrete, 2001f.
*Javapsocus*** Endang Sri Kentjonowati, Thornton & New, 2002: 168. Gender: M. Type species: *Javapsocus intimadentatus* Endang Sri Kentjonowati, Thornton & New.
Javapsocus spec. Indonesia (VIII): Endang *et al.*, 2002.
*Javapsocus intimadentatus** Endang Sri Kentjonowati, Thornton & New, 2002: 168. Indonesia (VIII).
*Javapsocus smithersi** Endang Sri Kentjonowati, Thornton & New, 2002: 171. Indonesia (VIII).
*Javapsocus soegiri** Endang Sri Kentjonowati, Thornton & New, 2002: 169. Indonesia (VIII).
*Javapsocus ungulatus** Endang Sri Kentjonowati, Thornton & New, 2002: 170. Indonesia (VIII).
Loensia fasciata (Fabricius). Germany (I): Schneider *et al.*, 2001. Great Britain (I): Saville, 2001b (phenol.). Italy (I): Locatelli & Limonta, 2002b.
Loensia pearmani Kimmins. Hungary (I): Sziraki, 2001.
Loensia variegata (Latreille). Germany (I): Schneider *et al.*, 2001. Luxembourg (I): Schneider, 2001.
Psocidus Pearman (s. str.). Tentatively assigned to Psocini: Endang *et al.*, 2002.
Psocidus (s. str.) *apertus* Thornton. Indonesia (VIII): Endang *et al.*, 2002.
Psocidus (s. l.) *flavonimbatus* (Rostock). Redescription: Lienhard & Kanervo, 2002: 59 (as *Psocus flavonimbatus* Rostock, generic placement uncertain). Finland (I).
Psocidus (s. l.) *formosanus* (Okamoto). *Psocus formosanus* Okamoto. Deposition of type: Yoshizawa, 2002b (Hokkaido University Insect Collection).
Psocidus (s. str.) *lobatus* Endang Sri Kentjonowati & Thornton. Assigned to *Psocidus* Pearman s. str.: Endang *et al.*, 2002. Indonesia (VIII).
Psocidus (s. str.) *murphyi* New. Indonesia (VIII): Endang *et al.*, 2002.
Psocidus (s. l.) *pellucidus* (Okamoto). *Psocus pellucidus* Okamoto. Deposition of type: Yoshizawa, 2002b (Hokkaido University Insect Collection).
Psocidus (s. l.) *peregrans* Vaughan, Thornton & New. Probably a species of *Ptycta* Enderlein: Endang *et al.*, 2002: 145. Indonesia (VIII).
Psocidus (s. str.) *proctus* Vaughan, Thornton & New. Assigned to *Psocidus* Pearman s. str.: Endang *et al.*, 2002. Indonesia (VIII).
Psocidus (s. str.) *reidi* Thornton. Assigned to *Psocidus* Pearman s. str.: Endang *et al.*, 2002. Indonesia (VIII).
Psocidus (s. str.) *segmentatus* Endang Sri Kentjonowati & Thornton. Assigned to *Psocidus* Pearman s. str.: Endang *et al.*, 2002. Indonesia (VIII).
Psocidus (s. l.) *tateokanus* (Okamoto). *Psocus tateokanus* Okamoto. Deposition of type: Yoshizawa, 2002b (Hokkaido University Insect Collection).
Psocidus (s. str.) *tergatus* Endang Sri Kentjonowati & Thornton. Assigned to *Psocidus* Pearman s. str.: Endang *et al.*, 2002. Indonesia (VIII).
Psocidus (s. str.) *validus* Thornton. Indonesia (VIII): Endang *et al.*, 2002.

- Ptycta* spec. Nicaragua (IV): Garcia Aldrete, 2001f.
- Ptycta afasciata** Endang Sri Kentjonowati, Thornton & New, 2002: 152. Indonesia (VIII).
- Ptycta campbelli* Schmidt & Thornton. Australia (IX): Williams, 2002.
- Ptycta distincta* Smithers & Thornton. Probably a species of *Psocidus* Pearman s. str.: Endang *et al.*, 2002: 139.
- Ptycta emarginata* New. Australia (IX): Williams, 2002.
- Ptycta floresensis** Endang Sri Kentjonowati, Thornton & New
Ptycta floresense [sic!] Endang Sri Kentjonowati, Thornton & New, 2002: 149. Indonesia (VIII).
- Ptycta frontalis* Thornton. Indonesia (VIII): Endang *et al.*, 2002.
- Ptycta krakatau* Vaughan, Thornton & New. Indonesia (VIII): Endang *et al.*, 2002.
- Ptycta merapiensis** Endang Sri Kentjonowati, Thornton & New
Ptycta merapiense [sic!] Endang Sri Kentjonowati, Thornton & New, 2002: 151. Indonesia (VIII).
- Ptycta pitallo** Endang Sri Kentjonowati, Thornton & New, 2002: 153. Indonesia (VIII).
- Ptycta precincta* Thornton. Indonesia (VIII): Endang *et al.*, 2002.
- Ptycta schillei* (Enderlein). Indonesia (VIII): Endang *et al.*, 2002.
- Ptycta serrata** Endang Sri Kentjonowati, Thornton & New, 2002: 147. Indonesia (VIII).
- Ptycta tapensis** Endang Sri Kentjonowati, Thornton & New
Ptycta tapense [sic!] Endang Sri Kentjonowati, Thornton & New, 2002: 148. Indonesia (VIII).
- Ptycta timorensis** Endang Sri Kentjonowati, Thornton & New
Ptycta timorensis [sic!] Endang Sri Kentjonowati, Thornton & New, 2002: 150. Indonesia (VIII).
- Ptycta tsutsumii* New & Thornton. Indonesia (VIII): Endang *et al.*, 2002.
- Ptycta umbrata* New. Australia (IX): Williams, 2002.
- Trichadenotecnum* Enderlein. Genus definition, species groups: Yoshizawa, 2001a.
- Trichadenotecnum* spec. Nicaragua (IV): Garcia Aldrete, 2001f.
- Trichadenotecnum adika** Endang Sri Kentjonowati, Thornton & New, 2002: 166. Indonesia (VIII).
- Trichadenotecnum album** Yoshizawa, 2001a: 164. Japan (VIII).
- Trichadenotecnum alexanderiae* Sommerman. USA (III): Yoshizawa, 2001a. Japan (VIII): Yoshizawa, 2001a. Biol.: Braig *et al.*, 2002 (parthenogenesis).
- Trichadenotecnum alinguum** Endang Sri Kentjonowati, Thornton & New, 2002: 163. Indonesia (VIII).
- Trichadenotecnum amamiense** Yoshizawa, 2001a: 174. Japan (VIII).
- Trichadenotecnum bidens* Thornton. Indonesia (VIII): Endang *et al.*, 2002.
- Trichadenotecnum bidentatum* Thornton. Indonesia (VIII): Endang *et al.*, 2002.
- Trichadenotecnum bromoense** Endang Sri Kentjonowati, Thornton & New
Trichadenotecnum bromoensis [sic!] Endang Sri Kentjonowati, Thornton & New, 2002: 157. Indonesia (VIII).
- Trichadenotecnum castum* Betz. USA (III): Yoshizawa, 2001a. Japan (VIII): Yoshizawa, 2001a. Biol.: Braig *et al.*, 2002 (parthenogenesis).
- Trichadenotecnum cheahae** Endang Sri Kentjonowati, Thornton & New, 2002: 166. Indonesia (VIII).
- Trichadenotecnum circularoides* Badonnel. Japan (VIII): Yoshizawa, 2001a.
- Trichadenotecnum enderleini* (Roesler). Australia (IX): Williams, 2002.
- Trichadenotecnum falx** Yoshizawa, 2001a: 193. Japan (VIII).
- Trichadenotecnum furcilingum** Yoshizawa, 2001a: 197. Japan (VIII).
- Trichadenotecnum fuscipenne** Yoshizawa
Trichadenotecnum fuscipennis [sic!] Yoshizawa, 2001a: 199. Japan (VIII).
- Trichadenotecnum galih** Endang Sri Kentjonowati, Thornton & New, 2002: 159. Indonesia (VIII).
- Trichadenotecnum hammani** Endang Sri Kentjonowati, Thornton & New, 2002: 161. Indonesia (VIII).
- Trichadenotecnum incognitum* Roesler. Switzerland (I): Yoshizawa, 2001a (from Engadine Valley, misspelled Engachine V.). Japan (VIII): Yoshizawa, 2001a. Russia (VIII): Yoshizawa, 2001a.
- Trichadenotecnum innuptum* Betz. Biol.: Braig *et al.*, 2002 (parthenogenesis).
- Trichadenotecnum krucilense** Endang Sri Kentjonowati, Thornton & New
Trichadenotecnum krucilensis [sic!] Endang Sri Kentjonowati, Thornton & New, 2002: 165. Indonesia (VIII).
- Trichadenotecnum kumejimense** Yoshizawa, 2001a: 180. Japan (VIII).
- Trichadenotecnum latebrachium** Yoshizawa, 2001a: 181. Japan (VIII).
- Trichadenotecnum laticornutum** Endang Sri Kentjonowati, Thornton & New, 2002: 158. Indonesia (VIII).
- Trichadenotecnum magnomixtum** Yoshizawa, 2001a: 173. Japan (VIII).
- Trichadenotecnum majus* (Kolbe). Germany (I): Schneider *et al.*, 2001. Great Britain (I): Saville, 2001b (phenol.). Hungary (I): Sziraki, 2001. Italy (I): Locatelli & Limonta, 2002b.
- Trichadenotecnum malayense* New. Indonesia (VIII): Endang *et al.*, 2002.
- Trichadenotecnum merum* Betz. Biol.: Braig *et al.*, 2002 (parthenogenesis).
- Trichadenotecnum mixtum** Yoshizawa, 2001a: 172. Japan (VIII).
- Trichadenotecnum nothoapertum** Yoshizawa, 2001a: 190. Japan (VIII).
- Trichadenotecnum okinawense** Yoshizawa, 2001a: 176. Japan (VIII).
- Trichadenotecnum pardus* Badonnel
Indonesia (VIII): Endang *et al.*, 2002 (as *T. pardidum* Thornton). Japan (VIII): Yoshizawa, 2001a (as *T. pardidum* Thornton).
- Trichadenotecnum pseudomedium** Yoshizawa, 2001a: 183. Japan (VIII).
This species has been illustrated under the name *T. medium* by Yoshizawa (1996d: photograph) (Yoshizawa,

personal communication, 2002; see also below, chapter 4: "Corrections").

- Trichadenotecnum quadrispinosum** Endang Sri Kentjonowati, Thornton & New, 2002: 167. Indonesia (VIII).
Trichadenotecnum rachimi Endang Sri Kentjonowati & Thornton. Indonesia (VIII): Endang *et al.*, 2002.
Trichadenotecnum santosai Endang Sri Kentjonowati & Thornton. Indonesia (VIII): Endang *et al.*, 2002.
Trichadenotecnum sexpunctatum (Linnaeus). Czech Republic (I): Holusa, 2001a. Germany (I): Schneider *et al.*, 2001. Great Britain (I): Saville, 2001b (phenol.). Hungary (I): Sziraki, 2001. Italy (I): Locatelli & Limonta, 2002b. Luxembourg (I): Schneider, 2001. This species does not occur in Japan: Yoshizawa, 2001a.
Trichadenotecnum sexpunctellum (Enderlein). Japan (VIII): Yoshizawa, 2001a (could be identical to *T. castum* Betz).
*Trichadenotecnum soekarmanni** Endang Sri Kentjonowati, Thornton & New, 2002: 160. Indonesia (VIII).
*Trichadenotecnum soenarti** Endang Sri Kentjonowati, Thornton & New, 2002: 162. Indonesia (VIII).
*Trichadenotecnum takahashii** Yoshizawa, 2001a: 169. Japan (VIII).
*Trichadenotecnum vaughani** Endang Sri Kentjonowati, Thornton & New, 2002: 164. Indonesia (VIII).
*Trichadenotecnum yaeyamense** Yoshizawa, 2001a: 184. Japan (VIII).
*Trichadenotecnum yamatomajus** Yoshizawa, 2001a: 188. Japan (VIII).
*Trichadenotecnum yonaguniense** Yoshizawa, 2001a: 179. Japan (VIII).

Psilopsocidae

Psilopsocus Enderlein. Morph.: Yoshizawa, 2002e.

Myopsocidae

- Lichenomima* Enderlein. Morph.: Yoshizawa, 2002e.
Lichenomima spec. Nicaragua (IV): Garcia Aldrete, 2001f.
Myopsocus Hagen. Morph.: Yoshizawa, 2002e.
Myopsocus spec. Nicaragua (IV): Garcia Aldrete, 2001f.
Myopsocus australis (Brauer). Australia (IX): Williams, 2002.
Myopsocus eatoni McLachlan. Canary Islands (II): Baz & Zurita, 2001.
Myopsocus furcatus Smithers. Australia (IX): Williams, 2002.
Myopsocus incomptus Smithers. Australia (IX): Williams, 2002.

3. Additions to the Bibliography

Remarks:

Each number of "Psocid News" is separately quoted under Yoshizawa (ed.). Selected references to some particularly interesting contributions published in these newsletters can also be found under the authors' names (e. g. Mockford, 2002b; Yoshizawa, 2002d).

Cross-references to all authors are made as in the 2002-bibliography, cross-references to editors however are only made for the first editor in cases where there are more than one editor (e. g. Banks, H. J. *et al.* 1998; Sidik, M. *et al.* 1997).

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- Allen, S. & Desmarchelier, 2001. Ethyl formate fumigation of sampling systems at port facilities. (Meeting abstract). International Conference on Controlled Atmosphere and Fumigation in Stored Products, Fresno, California, USA, October 29 - November 03, 2000. *Phytoparasitica* 29 (Supplement), August, 79 S. (**Not seen**).
- Anglade, J.-Y. & Bigot, L. 2001. First determination of arthropod assemblages associated with *Erica arborea* L. and *Erica scoparia* L. *Comptes rendus de l'Académie des Sciences, Paris, Série III, Sciences de la Vie*, 324(3): 235-243, 4 figs.
- Annis, P. C. 2001. See Riudavets, J. *et al.* 2001.
- Arechavaleta, M., Zurita, N. & Oromi, P. 2001. Nuevos datos sobre la fauna de artrópodos de las Islas Salvajes. *Revista de la Academia Canaria de Ciencias* 12: 83-99.
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4. Corrections to Lienhard & Smithers, 2002

Page xxx (footnote):

Replace the reference Anonymous 1989 by Morimoto, 1989. (See above: "Additions to the Bibliography").

Page xxxv: line 4

(...have been integrated into the catalogue, except for Yoshizawa, 1999a, see remark on p. x).

Page 49:

Scoliopterygopsis Enderlein: Synonymy: Ball, 1936: 398.

Page 228:

Lachesilla anura: Delete Guinea for the original description and add the following line:
Description of male (*anura*?): Badonnel, 1948a: 85. Guinea (VI).

Page 385:

Blaste osella Lienhard (***Euclismia***)
Blaste (Euclismia) osella Lienhard, 1987b....

Page 479:

Festona Navas, 1922d: 59.... Synonymy: Navas, 1934c: 8.

Corrections for some "Non-Japanese" species:

Caecilius similis (p. 136), *Stenopsocus makii* (p. 202): Delete Japan and place the reference Tsutsumi, 1965 under Taiwan.

Taeniosigma ingens (p. 215), *Clematostigma hyalinum* (p. 428), *Clematostigma subcostale* (p. 429), *Lophopterygella camelina* (p. 479): These species are mentioned for Japan based on Tomita & Haga, 1991 (A checklist of Psocoptera from Japan). According to Yoshizawa (pers. comm. and Internet-Checklist of Japanese Psocoptera, <http://insect3.agr.hokudai.ac.jp/psoco-web/psoc.html>, update 1 Oct. 2002) they have not been recorded from present-day Japan. A critical analysis of the literature sources which are at the basis of this confusion will be made in a future paper on the Japanese fauna by Yoshizawa himself.

Trichadenotecnum medium (p. 467): Delete Japan, where the species has not been recorded. Yoshizawa (1996d: photograph) illustrates the Japanese species *T. pseudomedium* Yoshizawa, 2001 (see above: "Additions to the Catalogue") using erroneously the name *T. medium*.

Page 496:

Delete the reference "Anonymous 1989", it is replaced by the above mentioned reference "Morimoto, 1989" (cf. correction on p. xxx and "Additions to the Bibliography").

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Next issue

About August 2003. Please let me have all contributions by July 31 2003 if possible. I look forward to hearing from you.

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