



Title	Psocid News : The Psocidologists' Newsletter
Author(s)	Yoshizawa, Kazunori
Doc URL	<a href="http://hdl.handle.net/2115/35519">http://hdl.handle.net/2115/35519</a>
Type	other
Note	edited by Kazunori Yoshizawa at the Systematic Entomology, Faculty of Agriculture, Hokkaido University
Additional Information	There are other files related to this item in HUSCAP. Check the above URL.
File Information	009 PN_9.pdf (No. 9 (Feb. 28, 2007))



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# Psocid News

## The Psocidologists' Newsletter

No. 9 (Feb. 28, 2007)



*Ptycta* sp. (will be described as *johnsoni* by Bess & Yoshizawa, 2007)

### RESEARCH OUTLINE: THE PSOCIDS OF HAWAII

**Emilie Bess** (University of Illinois, USA)

Hello, Psocidologists.

I recently joined the psocid community after completing a master's degree in botany at the University of Missouri - St. Louis. Insects are much more interesting than plants, so I was happy to begin working on psocids in 2005 when I started my doctoral thesis at the University of Illinois under the advisement of Dr. Kevin Johnson. My thesis project focuses on the radiation of *Ptycta* (Psocidae) on the Hawaiian Islands, where there are more than 50 described species. I am investigating the diversity, morphological and molecular phylogenetics, and biogeographic history of the group in order to describe the origin and timing of colonization. Dr. Edward Mockford has taught me a great deal about the morphology and natural history of psocids, both here in Illinois and during a collecting trip in Hawaii in January of 2007. During the summer of 2006, I received a NSF/JSPS fellowship that allowed me to work with Dr. Kazunori Yoshizawa in Sapporo, Japan. I had a lovely summer in Japan and learned a great deal about psocid taxonomy. We described two new species of *Ptycta* from Japan, which provided a great introduction to the process of illustrating psocids. In addition to my work on Hawaiian and Asian *Ptycta*, I am also constructing a series of web pages about psocids and parasitic lice for the Tree of Life Web Project (<http://www.tolweb.org/Psocodea>).

### ADDITIONS AND CORRECTIONS (PART 6) TO LIENHARD & SMITHERS, 2002: "PSOCOPTERA (INSECTA) - WORLD CATALOGUE AND BIBLIOGRAPHY"

**Charles Lienhard** (Geneva Natural History Museum, Switzerland)

#### 1. Introduction

This is the sixth part of a series of "Additions and Corrections to the World Catalogue and Bibliography" published in "Psocid News" (Parts 1-5 in Psocid News no. 4-8). Please send me regularly copies of your papers on Psocoptera, and please inform me about errors that 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)" or "(Only abstract 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", or those where the matter they deal with is clearly indicated in the title or in the abstract. 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, except for changes published since (see "Additions", Parts 1-5). For each family, newly published changes concerning supra-generic taxa are mentioned at the beginning of the family treatment, except for Psocidae, where subfamilies 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 (\*). For a name not mentioned in the 2002-Catalogue, but cited in a preceding part of the "Additions", author and year are mentioned [the complete reference can be found in the Part of the

"Additions", where the name has been cited for the first time (= first entry of a new name)]. Genera are listed alphabetically within each family, except for Psocidae, where they are grouped according to subfamilies. Species are listed alphabetically within each genus. Species names are usually cited in the combination used in the 2002-book, if not an explicit change of combination (or a new synonymy) has been published since. 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 usually underlined.

No nomenclatural act is published in the "Additions to the Catalogue" because articles in "Psocid News" are not considered as published works under the rules of ICZN (cf. Editorial: Disclaimer). 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. adaptation of species name endings to the grammatical gender of the genus name).

Complete bibliographical references to publications cited in the present paper, which are not listed in Chapter 4 (Additions to the Bibliography), can be found in the World Bibliography (Lienhard & Smithers, 2002: 493-664) or in Parts 1 to 5 of the "Additions" (Psocid News, no. 4, 5, 6, 7, 8).

## 2. List of countries mentioned in the "Additions and Corrections to the World Catalogue" (Parts 1-6)

Country checklists of Psocoptera species extracted from the 2002-World Catalogue are available at: <http://www.ville-ge.ch/musinfo/mhng/page-e/ps-coun.htm>

All additional species records are mentioned in the "Additions and Corrections to the World Catalogue" and all countries mentioned in Parts 1 to 6 of these Additions are listed below, arranged according to the main geographical regions defined for the Catalogue (**I-X**), with a separate heading for fossils recorded, mainly from amber (**A**). This list is provided to facilitate computer searching for distributional references in the online version of the different parts which can be found on the PsocoNet Homepage: <http://insect3.agr.hokudai.ac.jp/psoco-web/psoco-net/index.html>

Part 1: published in Psocid News, no. 4: 2-24

Part 2: published in Psocid News, no. 5: 2-37

Part 3: published in Psocid News, no. 6: 1-23

Part 4: published in Psocid News, no. 7: 1-16

Part 5: published in Psocid News, no. 8: 1-18

Part 6: published in Psocid News, no. 9 (= present issue)

**(I)** Austria (Parts 1, 3, 4, 5, 6), Belgium (Parts 3, 6), Croatia (Part 6), Czech Republic (Parts 1, 4, 5, 6), Egypt (Part 6), Finland (Part 1), France (Parts 1, 3, 4, 6), Germany (Parts 1, 3, 4, 5), Great Britain (Parts 1, 3, 4, 5, 6), Greece (Parts 5, 6), Hungary (Parts 1, 3), Iran (Part 6), Ireland (Part 6), Israel (Parts 4, 6), Italy (Parts 1, 3, 5, 6), Lebanon (Part 6), Luxembourg (Parts 1, 3), Netherlands (Part 4), Norway (Part 4), Portugal (Part 6), Russia (Part 6), Slovakia (Part 1), Spain (Parts 1, 5), Switzerland (Parts 1, 3, 4, 6), Turkey (Part 5), Ukraine (Part 6), Yemen (Part 4)

**(II)** Azores (Part 5), Canary Islands (Parts 1, 4, 5), Cape Verde Islands (Part 5), Gough Island (Parts 5, 6), Madeira (Part 5), Saint Helena (Part 5), Selvagens Islands (Part 1)

**(III)** Canada (Parts 4, 6), USA (Parts 1, 4, 5, 6)

**(IV)** Belize (Parts 1, 4, 6), Costa Rica (Parts 1, 6), Cuba (Part 6), Dominica (Parts 5, 6), Dominican Republic (Parts 4, 6), Guatemala (Parts 1, 4), Haiti (Parts 1, 4), Mexico (Parts 1, 3, 4, 5, 6), Nicaragua (Parts 1, 3, 4, 6), Panama (Parts 4, 6), Puerto Rico (Part 1), Trinidad (Part 1)

**(V)** Argentina (Parts 3, 4), Bolivia (Parts 1, 5), Brazil (Parts 1, 4, 5, 6), Chile (Parts 1, 4, 6), Colombia (Part 1), Ecuador (Parts 1, 6), Peru (Parts 1, 5, 6), Venezuela (Parts 1, 4, 6)

**(VI)** Ghana (Part 4), Guinea (Part 1), Kenya (Part 4), Madagascar (Part 5), Malawi (Part 3), Namibia (Parts 1, 6), South Africa (Parts 3, 6), Tanzania (Parts 3, 4), Uganda (Part 6)

**(VIII)** Brunei (Parts 5, 6), China (Parts 2, 3, 5, 6), Hong Kong (Part 5), India (Parts 3, 5, 6), Indonesia (Parts 1, 3, 5, 6), Japan (Parts 1, 4, 6), Kuril Islands (Part 4), Kyrgyzstan (Part 5), Laos (Parts 5, 6), Malaysia (Parts 1, 5, 6), Myanmar (Part 6), New Guinea (Parts 3, 5), Philippines (Parts 3, 5, 6), Russia (Part 1), Singapore (Part 5), Sri Lanka (Parts 4, 6), Taiwan (Parts 1, 6), Thailand (Parts 1, 4, 5, 6), USSR (Part 4), Vietnam (Parts 4, 5, 6)

**(IX)** Australia (Parts 1, 4, 5, 6), Lord Howe Island (Part 4), New Zealand (Parts 1, 4)

**(X)** Galapagos (Part 5)

**(A)** Amber and Copal (or other fossils) (Parts 1, 3, 5, 6)

## 3. Additions to the Catalogue

### Psocodea

Order Psocodea (= Psocoptera + Phthiraptera): Yoshizawa & Johnson, 2006: 358.

Web database: Bess *et al.*, 2006.

### Psocoptera

Novak, 1890 (faunistics, Croatia). Nonveiller, 1989, 1999 (bibliogr., Croatia). Foulk, 1990 (pest, USA). Bullock *et al.*, 1993 (lizards as predators of psocids). Elston, 1999 (pest). Ferreira & Silva, 2001 (lapidicolous fauna, Brazil). Wagner, 2001 (seasonal changes in capopy fauna, Uganda). Gibert & Deharveng, 2002 (cave fauna). Frydrychova *et al.*, 2004 (phylog., DNA). New, 2004e (obituary I. W. B. Thornton). Rasnitsyn *et al.*, 2004 (palaeont.). Solervicens *et al.*, 2004 (host plants, Chile). Zhang Jun-Feng, 2004 (palaeont., *Psocites* Hong, 1992 referred to Axymyiidae, Diptera; Jurassic). Cepeda-Pizarro *et al.*, 2005 (coastal deserts of Chile, pitfall traps). Gruner *et al.*, 2005 (ecol., effect of foliar pubescence). Kanuch *et al.*, 2005 (bats as predators of psocids, Central Europe). Leelapaibul *et al.*, 2005 (bats as predators of psocids, Thailand). Vivar Rodriguez *et al.*, 2005 (psocids as pest in Museum, Cuba). Beckmann, 2006 (biography and entomological bibliography of Hermann Löns). Bess *et al.*, 2006 (web database). Beuk, 2006 (book review). Lienhard, 2006a (additions and corrections to the World Catalogue). Lienhard, 2006c (book review). Schultz & De Santo, 2006 (ecol., Alaska). Turner, 2006a (depositories of Broadhead collection and Turner collection). Yoshizawa, 2006a (newsletter).

### Trogiomorpha

Yoshizawa *et al.*, 2006: Phylogeny of the suborder and revised definition of infraorders: Prionoglaridetae (containing Prionoglarididae), Psyllipsocetae (Psyllipsocidae), Atropetae (Lepidopsocidae, Psoquillidae, Trogiidae).

### Empheriidae

***Eoempheria*\*\*** Nel, Prokop, De Ploeg & Millet, 2005: 376. Gender: F. Type species: *Eoempheria intermedia* Nel, Prokop, De Ploeg & Millet.

***Eoempheria intermedia*\*** Nel, Prokop, De Ploeg & Millet, 2005: 376. Tertiary amber (Eocene), France (A).

***Trichempheria villosa*** (Hagen). Amber (Tertiary: Eocene), Ukraine (A): Engel & Perkovsky, 2006b.

### Lepidopsocidae

Lepidopsocidae spec. Phylog.: Shao & Barker, 2003 (convergence between a lepidopsocid and a thrips); Shao *et al.*, 2003 (mitochondrial genome).

***Echmepteryx hageni*** (Packard). Phylog.: Murrell & Barker, 2005; Yoshizawa *et al.*, 2006.

***Echmepteryx lunulata*** Thornton, Lee & Chui. Morph.: Yoshizawa, 2005b.

***Echmepteryx madagascariensis*** (Kolbe). Phylog.: Yoshizawa *et al.*, 2006.

***Lepium*** spec. Phylog.: Yoshizawa *et al.*, 2006.

***Lepolepis bicolor*** Broadhead. Great Britain (I): New, 2005a.

***Neolepalepis occidentalis*** (Mockford). Phylog.: Yoshizawa *et al.*, 2006.

***Nepticulomima sakuntala*** Enderlein. Great Britain (I): New, 2005a; Alexander, 2006.

***Pteroxanium insularum*** Smithers & Thornton. Phylog.: Murrell & Barker, 2005.

***Pteroxanium kelloggi*** (Ribaga). Great Britain (I): New, 2005a; Alexander, 2006. Phylog.: Yoshizawa *et al.*, 2006.

***Soa*** spec. Phylog.: Yoshizawa *et al.*, 2006.

***Soa flaviterminata*** Enderlein. Great Britain (I): New, 2005a.

***Thylacella eocenica*\*** Nel, Prokop, De Ploeg & Millet, 2005: 374. Tertiary amber (Eocene), France (A).

### Trogiidae

***Cerobasis alpha*** Garcia Aldrete. Phylog.: Yoshizawa *et al.*, 2006.

***Cerobasis annulata*** (Hagen). Great Britain (I): New, 2005a.

***Cerobasis guestfalica*** (Kolbe). Great Britain (I): New, 2005a; Saville, 2005; Southwood, T. R. E. *et al.* 2005 (ecol.). Biol.: Perotti *et al.*, 2006 (*Rickettsia* as endosymbiont).

***Lepinotus*** spec. Great Britain (I): Downing, 1985 (pest). Phylog.: Yoshizawa *et al.*, 2006.

***Lepinotus inquilinus*** Heyden. Great Britain (I): New, 2005a. Italia (I): Nicoli Aldini, 2004b (biol.); Nicoli Aldini & Anaclerio, 2005 (biol.). Australia (IX): Rees, 1994b (biol., pest). Pest: Rees, 2004.

***Lepinotus patruelis*** Pearman. Czech Republic (I): Stejskal *et al.*, 2003 (pest). Great Britain (I): Dodd, 1985 (pest); Pinniger, 1985 (pest); New, 2005a; Alexander, 2006. Pest: Rees, 2004. Phylog.: Murrell & Barker, 2005 (prob. *patruelis*).

***Lepinotus reticulatus*** Enderlein. Czech Republic (I): Werner *et al.*, 1999 (pest); Stejskal *et al.*, 2003 (pest). Great Britain (I): New, 2005a. Morph.: Ahmed, 1995b (fine structure of eggs). Australia (IX): Rees, 1994b (biol., pest). Pest: Rees, 2004. Phylog.: Yoshizawa *et al.*, 2006.

***Trogium*** spec. Great Britain (I): Downing, 1985 (pest).

***Trogium pulsatorium*** (Linnaeus). Great Britain (I): Dodd, 1985 (pest); New, 2005a; Alexander, 2006. Switzerland (I): Gonseth, 2005. China (VIII): Liu Guilin *et al.*, 1999 (pest). Morph.: Ahmed, 1995b (fine structure of eggs); Beutel & Weide, 2005. Pest: Rees, 2004. Phylog.: Yoshizawa *et al.*, 2006.

### Psoquillidae

Key to the genera of Psoquillidae: Garcia Aldrete, 2006b: 4.

***Eorhyopsocus*\*\*** Nel, Prokop, De Ploeg & Millet, 2005: 377. Gender: M. Type species: *Eorhyopsocus magnificus* Nel, Prokop, De Ploeg & Millet.

***Eorhyopsocus magnificus*\*** Nel, Prokop, De Ploeg & Millet, 2005: 377. Tertiary amber (Eocene), France (A).

***Psoquilla marginepunctata*** Hagen. Great Britain (I): New, 2005a. Italia (I): Nicoli Aldini, 2003, 2004c.

***Rhyopsocoides*\*\*** Garcia Aldrete, 2006b: 2. Gender: M. Type species: *Rhyopsocoides typhicolus* Garcia Aldrete.

*Rhyopsocoides typhicolus*\* Garcia Aldrete, 2006b: 2. Mexico (IV).  
*Rhyopsocus* spec. Phylog.: Yoshizawa *et al.*, 2006.  
*Rhyopsocus disparilis* (Pearman). Great Britain (I): New, 2005a; Alexander, 2006.  
*Rhyopsocus peregrinus* (Pearman). Great Britain (I): New, 2005a.

#### Psyllipsocidae

*Dorypteryx domestica* (Smithers). Great Britain (I): New, 2005a. Italia (I): Nicoli Aldini, 2003, 2004c. Switzerland (I): Gonseth, 2005. Phylog.: Yoshizawa *et al.*, 2006.  
*Dorypteryx longipennis* Smithers. Ireland (I): OConnor & Vaucheret, 2006. Italia (I): Nicoli Aldini, 2003, 2004c. Switzerland (I): Gonseth, 2005.  
*Dorypteryx pallida* Aaron. Switzerland (I): Gonseth, 2005.  
*Psocathropos lachlani* Ribaga. Pest: Rees, 2004.  
*Psyllipsocus eocenicus*\* Nel, Prokop, De Ploeg & Millet, 2005: 372. Tertiary amber (Eocene), France (A).  
*Psyllipsocus oculatus* Gurney. Phylog.: Yoshizawa *et al.*, 2006.  
*Psyllipsocus ramburii* Selys-Longchamps. Belgium (I): Dethier & Willems, 2005 (in caves). Great Britain (I): New, 2005a. Gough Island (II): Jones *et al.*, 2002.

#### Prionoglarididae

*Prionoglaris* spec. Phylog.: Yoshizawa *et al.*, 2006.  
*Siamoglaris zebrina* Lienhard, 2004b. Phylog.: Yoshizawa *et al.*, 2006.  
*Speleketor irwini* Mockford. Phylog.: Yoshizawa *et al.*, 2006.  
*Sensitibilla strinatii* Lienhard. Phylog.: Yoshizawa *et al.*, 2006.

#### Electrentomidae

*Eomanicapsocus*\*\* Nel, Prokop, De Ploeg & Millet, 2005: 381. Gender: M. Type species: *Eomanicapsocus melaniae* Nel, Prokop, De Ploeg & Millet.  
*Eomanicapsocus melaniae*\* Nel, Prokop, De Ploeg & Millet, 2005: 381. Tertiary amber (Eocene), France (A).  
*Eoprotoctopsocus*\*\* Nel, Prokop, De Ploeg & Millet, 2005: 383. Gender: M. Type species: *Eoprotoctopsocus celinea* Nel, Prokop, De Ploeg & Millet. (Tentatively placed in Manicapsocidae).  
*Eoprotoctopsocus celinea*\* Nel, Prokop, De Ploeg & Millet, 2005: 383. Tertiary amber (Eocene), France (A).  
*Epitroctes* spec. Phylog.: Yoshizawa & Johnson, 2006 (morph.).  
*Phallopsocus* spec. Phylog.: Yoshizawa & Johnson, 2006 (morph.).

#### Compsocidae

*Compsocus elegans* Banks. Phylog.: Yoshizawa & Johnson, 2006 (morph.); Yoshizawa *et al.*, 2006.  
*Electrentomopsis* spec. Phylog.: Yoshizawa & Johnson, 2006 (morph.).

#### Troctopsocidae

Troctopsocidae gen spec. Malaysia (VIII): Yoshizawa, 2005b (morph.).  
*Selenopsocus* spec. Phylog.: Yoshizawa & Johnson, 2006 (morph.); Yoshizawa *et al.*, 2006.

#### Musapsocidae

*Musapsocus* spec. Phylog.: Yoshizawa & Johnson, 2006 (morph.); Yoshizawa *et al.*, 2006.

#### Amphientomidae

*Cymatopsocus* spec. Malaysia (VIII): Yoshizawa, 2005b (morph.). Phylog.: Yoshizawa & Johnson, 2006 (morph.).  
*Amphientomum parisiense*\* Nel, Prokop, De Ploeg & Millet, 2005: 384 (incorrectly spelled *parisiensis*). Tertiary amber (Eocene), France (A).  
*Paramphientomum* spec. Taiwan (VIII): Yoshizawa, 2005b (morph.).  
*Paramphientomum yumyum* Enderlein. Morph.: Yoshizawa, 2005b.  
*Stimulopalpus japonicus* Enderlein. Phylog.: Murrell & Barker, 2005.

#### Liposcelididae

Phylogeny of Liposcelididae, including fossils: Grimaldi & Engel, 2006a.  
Liposcelididae spec. Phylog.: Murrell & Barker, 2005.  
*Belapha* spec. Phylog.: Yoshizawa & Johnson, 2006 (morph.).  
*Belaphopsocus dominicus*\* Grimaldi & Engel, 2006a: 628. Tertiary amber (Miocene), Dominican Republic (A).  
*Cretoscelis*\*\* Grimaldi & Engel, 2006a: 626. Gender: F. Type species: *Cretoscelis burmitica* Grimaldi & Engel.  
*Cretoscelis burmitica*\* Grimaldi & Engel, 2006a: 626. Cretaceous amber, Myanmar (A).  
*Embidopsocus* spec. Phylog.: Yoshizawa & Johnson, 2006 (morph.).  
*Embidopsocus enderleini* (Ribaga). Great Britain (I): New, 2005a; Alexander, 2006.  
*Embidopsocus eocenicus* Nel, De Ploeg & Azar, 2004. Description of apterous specimen: Nel *et al.*, 2005: 379. Tertiary amber (Eocene), France (A).  
*Embidopsocus minor* (Pearman). Great Britain (I): New, 2005a.  
*Liposcelis* spec. Great Britain (I): Downing, 1985 (pest). Gough Island (II): Jones *et al.*, 2002. Phylog.: Murrell &

Barker, 2005; Yoshizawa & Johnson, 2006 (morph.).

*Liposcelis albothoracica* Broadhead. Great Britain (I): New, 2005a.

*Liposcelis badia*\* Wang Zi-Ying, Wang Jin-Jun & Lienhard, 2006: 566. China (VIII).

*Liposcelis bicolor* (Banks). Great Britain (I): New, 2005a; Alexander, 2006.

*Liposcelis bostrychophila* Badonnel. Great Britain (I): Dodd, 1985 (pest); Pinniger, 1985 (pest); New, 2005a; Alexander, 2006. Iran (I): Jalalizand *et al.*, 2005. Portugal (I): Kucerova *et al.*, 2006 (pest). China (VIII): Liu Guilin *et al.*, 1999 (pest). Indonesia (VIII): Pike, 1994c (pest). Taiwan (VIII): Lin *et al.*, 2004 (human infestation). Australia (IX): Rees, 1994b (biol., pest); Rees *et al.*, 1994 (pest); Mikac & Clarke, 2006 (genetic variation). Biol.: Ali, 2004 (egg output); Perotti *et al.*, 2006 (*Rickettsia* as obligatory endosymbiont, reproduction). Ethol.: Hossain, 1997. Genet.: Mikac, 2006 (microsatellite loci). Pest: Roesli, & Jones, 1994 (traps at silos); Boatswain, 1998 (control); Kucerova, 1999a; Rees, 2004; Wang Jinjun *et al.*, 2004 (control); Nayak & Daglish, 2006 (control). Phys.: Luzajic, 1998; Cheng Weixia *et al.*, 2004; Lord & Howard, 2004 (cuticular lipids); Wang Jinjun *et al.*, 2004.

*Liposcelis brunnea* Motschulsky. Czech Republic (I): Werner *et al.*, 1999 (pest); Stejskal *et al.*, 2003 (pest). Great Britain (I): New, 2005a; Alexander, 2006. Australia (IX): Rees, 1994b (biol., pest). Pest: Rees, 2004.

*Liposcelis capitisecta*\* Wang Zi-Ying, Wang Jin-Jun & Lienhard, 2006: 564. China (VIII).

*Liposcelis corrodens* (Heymons). Czech Republic (I): Werner *et al.*, 1999 (pest); Stejskal *et al.*, 2003 (pest). Great Britain (I): New, 2005a. Iran (I): Jalalizand *et al.*, 2005. USA (III) : Webster & Whitaker, 2005 (ecol.). Australia (IX): Rees, 1994b (biol., pest). Genet.: Mikac, 2006 (microsatellite loci). Pest: Rees, 2004. Phys.: Harris, 1999.

*Liposcelis decolor* (Pearman). Czech Republic (I): Werner *et al.*, 1999 (pest); Stejskal *et al.*, 2003 (pest). Great Britain (I): New, 2005a; Alexander, 2006. Iran (I): Jalalizand *et al.*, 2005. Portugal (I): Kucerova *et al.*, 2006 (pest). Australia (IX): Rees, 1994b (biol., pest); Rees *et al.*, 1994 (pest). Pest: Rees, 2004; Nayak & Daglish, 2006 (control). Phys.: Harris, 1999. Genet.: Mikac, 2006 (microsatellite loci).

*Liposcelis entomophila* (Enderlein). Czech Republic (I): Stejskal *et al.*, 2003 (pest). Great Britain (I): New, 2005a; Alexander, 2006. Italia (I): Nicoli Aldini, 2003, 2004c. Portugal (I): Kucerova *et al.*, 2006 (pest). Indonesia (VIII): Pike, 1994c (pest). Australia (IX): Rees, 1994b (biol., pest). Genet.: Mikac, 2006 (microsatellite loci). Pest: Roesli, & Jones, 1994 (traps at silos); Wang Jinjun *et al.*, 1994 (control); Rees, 2004; Wang Jinjun *et al.*, 2004 (control); Nayak & Daglish, 2006 (control). Phys.: Harris, 1999; Cheng Weixia *et al.*, 2004; Wang Jinjun *et al.*, 2004.

*Liposcelis keleri* Günther. Iran (I): Ahadiyat, 2004; Jalalizand *et al.*, 2005.

*Liposcelis mendax* Pearman. Great Britain (I): New, 2005a; Alexander, 2006. Italia (I): Nicoli Aldini, 2003, 2004c. Switzerland (I): Gonseth, 2005. Australia (IX): Rees, 1994b (biol., pest).

*Liposcelis meridionalis* (Rosen). Great Britain (I): New, 2005a.

*Liposcelis myrmecophila* Broadhead. Great Britain (I): New, 2005a.

*Liposcelis obscura* Broadhead. Great Britain (I): New, 2005a; Alexander, 2006.

*Liposcelis paeta* Pearman. Czech Republic (I): Stejskal *et al.*, 2003 (pest). Great Britain (I): New, 2005a; Alexander, 2006. Italia (I): Nicoli Aldini, 2003, 2004c. Namibia (VI): Stejskal *et al.*, 2006 (pest). Indonesia (VIII): Pike, 1994c (pest). Australia (IX): Rees, 1994b (biol., pest). Genet.: Mikac, 2006 (microsatellite loci). Pest: Roesli, & Jones, 1994 (traps at silos); Rees, 2004; Nayak & Daglish, 2006 (control).

*Liposcelis paetula* Broadhead. Great Britain (I): New, 2005a.

*Liposcelis pearmani* Lienhard. Great Britain (I): New, 2005a.

*Liposcelis pubescens* Broadhead. Great Britain (I): New, 2005a. Pest: Rees, 2004.

*Liposcelis rufa* Broadhead. Great Britain (I): New, 2005a; Alexander, 2006. Portugal (I): Kucerova *et al.*, 2006 (pest). Australia (IX): Rees, 1994b (biol., pest). Genet.: Mikac, 2006 (microsatellite loci). Pest: Rees, 2004.

*Liposcelis tricolor* Badonnel. Portugal (I): Kucerova *et al.*, 2006 (pest). China (VIII): Dong Peng & Wang Jin-Jun, 2004 (*Wolbachia* bacteria); Dong Peng *et al.*, 2005 (*Wolbachia* bacteria). Biol.: Saleem, 1997.

## **Pachytroctidae**

*Pachytroctes* spec. Great Britain (I): New, 2005a.

*Pachytroctes neoleonensis* Garcia Aldrete. Phylog.: Yoshizawa & Johnson, 2006 (morph.).

*Peritroctes* spec. Phylog.: Yoshizawa & Johnson, 2006 (morph.).

*Tapinella* spec. Taiwan (VIII): Yoshizawa, 2005b (morph.). Phylog.: Yoshizawa & Johnson, 2006 (morph.).

*Tapinella castanea* Pearman. Great Britain (I): New, 2005a.

*Tapinella eocenica*\* Nel, Prokop, De Ploeg & Millet, 2005: 380. Tertiary amber (Eocene), France (A).

## **Sphaeropsocidae**

Revised diagnosis, key to genera, phylogeny, biogeography: Grimaldi & Engel, 2006b.

Sphaeropsocidae spec. Phylog.: Murrell & Barker, 2005.

*Badonnelia* Pearman. Revised diagnosis: Grimaldi & Engel, 2006b: 9.

*Badonnelia titei* Pearman. Great Britain (I): New, 2005a. Ireland (I): OConnor & Vaucheret, 2006. Phylog.: Yoshizawa & Johnson, 2006 (morph.).

*Sphaeropsocites*\*\* Grimaldi & Engel, 2006b: 10. Gender: M. Type species: *Sphaeropsocites lebanensis* Grimaldi & Engel.

*Sphaeropsocites lebanensis*\* Grimaldi & Engel, 2006b: 12. Cretaceous amber, Lebanon (A).

*Sphaeropsocoides*\*\* Grimaldi & Engel, 2006b: 9. Gender: M. Type species: *Sphaeropsocoides canadensis* Grimaldi & Engel.

*Sphaeropsocoides canadensis*\* Grimaldi & Engel, 2006b: 10. Cretaceous amber, Canada (A).

*Sphaeropsocopsis* Badonnel. Revised diagnosis: Grimaldi & Engel, 2006b: 8.

*Sphaeropsocopsis* spec. USA: California (III): Grimaldi & Engel, 2006b: 16 (this is the species tentatively placed in *Sphaeropsocus* by Mockford, 1993a).

*Sphaeropsocus* Hagen. Revised diagnosis: Grimaldi & Engel, 2006b: 5.

*Sphaeropsocus kuenowii* Hagen. Redescription: Grimaldi & Engel, 2006b: 5; Eocene amber (A). Baltic Amber (Tertiary: Eocene) (A): Engel & Perkovsky, 2006a. Amber (Tertiary: Eocene), Ukraine (A): Engel & Perkovsky, 2006a, 2006b.

### Epipsocetæ

Casasola Gonzalez, 2006a: Phylogenetic relationships of the genera, revised family classification: Dolabellopsocidae, Ptiloneuridae, Spurostigmatidae, Cladiopsocidae, Epipsocidae, ?Neurostigmatidae (probably family status not justified, very close to Epipsocidae).

Casasola Gonzalez, 2006b: Phylogeny and classification discussed, keys to families, diagnoses of infraorder and families, family status of Neurostigmatidae not recognized (i.e. *Neurostigma* assigned to Epipsocidae).

### Dolabellopsocidae

Casasola Gonzalez, 2006a: Transfer of *Dimidistriata* Li Fasheng & Mockford to Epipsocidae.

*Auroropsocus orientis* Eertmoed. India, Malaysia (VIII): Casasola Gonzalez, 2006a (phylog.).

*Auroropsocus strenus* Li Fasheng, 2002a. Phylog.: Casasola Gonzalez, 2006a.

*Dolabellopsocus* spec. Peru (V): Casasola Gonzalez, 2006a (phylog.).

*Dolabellopsocus roseus* Eertmoed. Morph.: Yoshizawa, 2005b.

*Isthmopsocus* spec. Belize (IV): Casasola Gonzalez, 2006a (phylog.). Mexico (IV): Yoshizawa, 2005b (morph.). Peru (V): Casasola Gonzalez, 2006a (phylog.).

### Ptiloneuridae

Key to the genera of Ptiloneuridae: Garcia Aldrete, 2006a: 137, 2006b: 9.

*Belicania*\*\* Garcia Aldrete, 2006b: 4. Gender: F. Type species: *Triplocania cervantesi* Garcia Aldrete.

*Belicania cervantesi* (Garcia Aldrete). Garcia Aldrete, 2006b: 5 (**from** *Triplocania*). Phylog.: Casasola Gonzalez, 2006a.

*Euplocania badonneli* New & Thornton. Brazil (V): Casasola Gonzalez, 2006a (phylog.). Morph.: Yoshizawa, 2005b.

*Euplocania pictaoides* Garcia Aldrete. Phylog.: Casasola Gonzalez, 2006a.

*Loneura leonilae* Garcia Aldrete. Mexico (IV): Casasola Gonzalez, 2006a (phylog.).

*Loneura splendida* Mockford. Belize, Mexico (IV): Casasola Gonzalez, 2006a (phylog.).

*Loneuroides*\*\* Garcia Aldrete, 2006a: 134. Gender: M. Type species: *Loneuroides venezolanus* Garcia Aldrete.

*Loneuroides venezolanus*\* Garcia Aldrete, 2006a: 134. Venezuela (V). Phylog.: Casasola Gonzalez, 2006a.

*Omilneura*\*\* Garcia Aldrete, 2006b: 5. Gender: F. Type species: *Omilneura circumvittata* Garcia Aldrete.

*Omilneura circumvittata*\* Garcia Aldrete, 2006b: 7. Mexico (IV).

*Perucania longiareola* New & Thornton. Peru (V): Casasola Gonzalez, 2006a (phylog.).

*Ptiloneura bidorsalis* Enderlein. Phylog.: Casasola Gonzalez, 2006a.

*Ptiloneuropsis immaculata* Roesler. Brazil (V): Casasola Gonzalez, 2006a (phylog.).

*Timnewia*\*\* Garcia Aldrete, 2006a: 135. Gender: F. Type species: *Euplocania greeni* New.

*Timnewia greeni* (New). Garcia Aldrete, 2006a: 135 (**from** *Euplocania*). Description of female: Garcia Aldrete, 2006a: 135; Ecuador (V). Phylog.: Casasola Gonzalez, 2006a.

*Triplocania brailovskiyana* Garcia Aldrete. Phylog.: Casasola Gonzalez, 2006a.

*Triplocania spinosa* Mockford. Morph.: Yoshizawa, 2005b.

*Willreevesia dominica* Garcia Aldrete, 2005a. Phylog.: Casasola Gonzalez, 2006a.

### Spurostigmatidae

Casasola Gonzalez, 2006a: Family reinstated, containing only *Spurostigma*.

*Spurostigma* spec. Dominica, Mexico (IV): Casasola Gonzalez, 2006a (phylog.).

*Spurostigma epiroticum* Eertmoed. Morph.: Yoshizawa, 2005b.

### Cladiopsocidae

Casasola Gonzalez, 2006a: Family redefined, containing only *Cladiopsocus*.

*Cladiopsocus garciai* Eertmoed. Mexico (IV): Casasola Gonzalez, 2006a (phylog.). Morph.: Yoshizawa, 2005b.

*Cladiopsocus ocotensis* Garcia Aldrete. Mexico (IV): Casasola Gonzalez, 2006a (phylog.).

### Epipsocidae

Casasola Gonzalez, 2006a: Family redefined, containing also *Dimidistriata* Li Fasheng & Mockford (**from** Dolabellopsocidae) and *Parepipsocus* Badonnel (**from** Epipsocetæ incertae sedis) and, tentatively, *Neurostigma* Enderlein (**from** Neurostigmatidae).

Casasola Gonzalez, 2006b: *Neurostigma* Enderlein definitively assigned to Epipsocidae (**from** Neurostigmatidae). Epipsocidae incertae sedis spp.: Brunei, Malaysia, Thailand (VIII): Casasola Gonzalez, 2006a (phylog.).

*Bertkauia crosbyana* Chapman. Phylog.: Casasola Gonzalez, 2006a; Yoshizawa *et al.*, 2006.

*Bertkauia lucifuga* (Rambur). Great Britain (I): New, 2005a; Alexander, 2006. Morph.: Beutel & Weide, 2005. Phylog.: Casasola Gonzalez, 2006a.

*Cubitiqlabra polyphibia* Li Fasheng. Phylog.: Casasola Gonzalez, 2006a.

*Cubitiqlabra quadripunctata* Li Fasheng. Phylog.: Casasola Gonzalez, 2006a.

*Dichoepipsocus micropterus* Li Fasheng & Mockford. Phylog.: Casasola Gonzalez, 2006a.

*Dichoepipsocus thimphuensis* (New). Phylog.: Casasola Gonzalez, 2006a.

*Dicropsocus complexus* Smithers & Thornton. Phylog.: Casasola Gonzalez, 2006a.

*Dicropsocus montanus* Smithers & Thornton. Phylog.: Casasola Gonzalez, 2006a.

*Dimidistriata longicapita* Li Fasheng & Mockford. Phylog.: Casasola Gonzalez, 2006a.

*Epipsocopsis* spec. Laos, Malaysia (VIII): Casasola Gonzalez, 2006a (phylog.). Taiwan (VIII): Yoshizawa, 2005b (morph.).

*Epipsocopsis greeni* New. Sri Lanka (VIII): Casasola Gonzalez, 2006a (phylog.).

*Epipsocopsis prominens* (Banks). Philippines (VIII): Casasola Gonzalez, 2006a (phylog.).

*Epipsocus* spec. Mexico (IV): Casasola Gonzalez, 2006a (phylog.). Malaysia (VIII): Yoshizawa, 2005b (morph.).

*Epipsocus argutus* New. Peru (V): Casasola Gonzalez, 2006a (phylog.).

*Epipsocus avus* (Roesler). Amber (Tertiary: Eocene), Ukraine (A): Engel & Perkovsky, 2006b.

*Epipsocus petenensis* Mockford. Belize (IV): Casasola Gonzalez, 2006a (phylog.).

*Goja montieli* Casasola Gonzalez & Garcia Aldrete, 2002. Phylog.: Casasola Gonzalez, 2006a.

*Goja plaumanni* (Roesler). Brazil (V): Casasola Gonzalez, 2006a (phylog.).

*Heteroepipsocus brevicellus* Li Fasheng. Phylog.: Casasola Gonzalez, 2006a.

*Heteroepipsocus longicellus* Li Fasheng. Phylog.: Casasola Gonzalez, 2006a.

*Heteroepipsocus maculatus* Li Fasheng, 2002a. Phylog.: Casasola Gonzalez, 2006a.

*Hinduipsocus* spec. Thailand (VIII): Casasola Gonzalez, 2006a (phylog.).

*Hinduipsocus atratus* Badonnel. Phylog.: Casasola Gonzalez, 2006a.

*Ianthorntonia annae* Garcia Aldrete, 2004g. Phylog.: Casasola Gonzalez, 2006a.

*Ianthorntonia loisae* Garcia Aldrete, 2004g. Phylog.: Casasola Gonzalez, 2006a.

*Incaposocus penai* Garcia Aldrete, 2005b. Phylog.: Casasola Gonzalez, 2006a.

*Liratepipsocus jinghongicus* Li Fasheng, 2002a. Phylog.: Casasola Gonzalez, 2006a.

*Mesepipsocus* spec. Belize, Costa Rica, Dominica, Dominican Republic, Nicaragua (IV): Casasola Gonzalez, 2006a (phylog.). Ecuador, Peru (V): Casasola Gonzalez, 2006a (phylog.).

*Mesepipsocus capitulatus* (New). Peru (V): Casasola Gonzalez, 2006a (phylog.).

*Mesepipsocus fuscivenatus* (New & Thornton). Peru (V): Casasola Gonzalez, 2006a (phylog.).

*Mesepipsocus proctus* (New & Thornton). Peru (V): Casasola Gonzalez, 2006a (phylog.).

*Metepipsocus beijingicus*\* Li Fasheng, 2002a. Phylog.: Casasola Gonzalez, 2006a.

*Neurostigma dispositum* Roesler. Mexico (IV): Casasola Gonzalez, 2006a (phylog.).

*Neurostigma enderleini* New. Brazil (V): Casasola Gonzalez, 2006a (phylog.).

*Odontopsocus* spec. Venezuela (V): Casasola Gonzalez, 2006a (phylog.).

*Odontopsocus orghidani* Badonnel. Phylog.: Casasola Gonzalez, 2006a.

*Papillopsocus oriximinaensis* Garcia Aldrete, 2005b. Phylog.: Casasola Gonzalez, 2006a.

*Parepipsocus obscurus* Badonnel. Phylog.: Casasola Gonzalez, 2006a.

*Rogojiella mariateresae* Garcia Aldrete, 2004f. Phylog.: Casasola Gonzalez, 2006a.

*Spordoepipsocus formosus* (Li Fasheng). Phylog.: Casasola Gonzalez, 2006a.

*Spordoepipsocus perforatus* Li Fasheng, 2002a. Phylog.: Casasola Gonzalez, 2006a.

*Valvepipsocus diodematus* Li Fasheng, 2002a. Phylog.: Casasola Gonzalez, 2006a.

*Terryerwinia* spec. Peru (V): Casasola Gonzalez, 2006a (phylog.).

*Terryerwinia acutipallica* Garcia Aldrete, 2005b. Phylog.: Casasola Gonzalez, 2006a.

#### Neurostigmatidae

Casasola Gonzalez, 2006a: Probably family status not justified, very close to Epipsocidae.  
 Casasola Gonzalez, 2006b: Family status not justified, *Neurostigma* assigned to Epipsocidae.  
 NOTE. The species of *Neurostigma* Enderlein are here treated under Epipsocidae.

#### Asiopsocidae

*Asiopsocus tehuacanus* Garcia Aldrete & Casasola Gonzalez. Phylog.: Casasola Gonzalez, 2006a.  
*Notiopsocus aldretei* Badonnel. Morph.: Yoshizawa, 2005b.

#### Caeciliusidae

*Caecilius fuscopterus* (Latreille). Great Britain (I): New, 2005a; Alexander, 2006.  
*Caecilius loratus* Li Fasheng. China (VIII): Li Fasheng, 2005b.  
*Caecilius niger*\* Li Fasheng, 2005b: 88. China (VIII).  
*Caecilius persimularis* (Thornton & Wong). China (VIII): Li Fasheng, 2005b.  
*Caecilius scalimaculatus*\* Li Fasheng, 2005b: 89. China (VIII).



*Dypsocus coleopratus* (Hagen). Morph.: Yoshizawa, 2005b.  
*Enderleinella obsoleta* (Stephens). Great Britain (I): New, 2005a; Saville, 2005; Alexander, 2006.  
*Epicaecilius pilipennis* (Lienhard). Great Britain (I): New, 2005a; Saville, 2005.  
*Isophanes* spec. Japan (VIII): Yoshizawa, 2005b (morph.).  
*Stenocaecilius quercus* (Edwards). Phylog.: Shao & Barker, 2003.  
*Valenzuela* spec. Phylog.: Murrell & Barker, 2005.  
*Valenzuela atricornis* (McLachlan). Great Britain (I): Dolling, 2005; New, 2005a; Alexander, 2006.  
*Valenzuela burmeisteri* (Brauer). Great Britain (I): New, 2005a; Saville, 2005; Alexander, 2006.  
*Valenzuela corsicus* (Kolbe). Great Britain (I): New, 2005a.  
*Valenzuela flavidus* (Stephens). Great Britain (I): New, 2005a; Saville, 2005; Alexander, 2006. Morph.: Yoshizawa, 2005b.  
*Valenzuela labinae*\* Lienhard, 2006b: 808. Russia (I). Biol. (parthenogenesis): Nokkala & Golub, 2006 (as *Valenzuela* spec., see Lienhard, 2006b: 810).  
*Valenzuela labrostylus* Lienhard, 2002b. Greece (I): Lienhard, 2006b (description of macropterous female).  
*Valenzuela oyamai* (Enderlein). Morph.: Yoshizawa, 2005b.  
*Valenzuela piceus* (Kolbe). Great Britain (I): New, 2005a.  
*Valenzuela prometheus* (Enderlein). Amber (Tertiary: Eocene), Ukraine (A): Engel & Perkovsky, 2006b.  
*Valenzuela rhenanus* (Tetens). Egypt (I): Ahmed, 1994. Morph.: Ahmed, 1995b (fine structure of eggs).

### Stenopsocidae

*Cubipilis beunifascus*\* Li Fasheng, 2005b: 93. China (VIII). NOTE: According to Mockford (2003c) *Cubipilis* is a junior synonym of *Stenopsocus*.  
*Graphopsocus cruciatus* (Linnaeus). Austria (I): Lienhard, 2005e. Great Britain (I): New, 2005a; Saville, 2005; Southwood, T. R. E. *et al.* 2005 (ecol.); Alexander, 2006. Morph.: Ahmed, 1995b (fine structure of eggs); Yoshizawa, 2005b.  
*Stenopsocus aphidiformis* Enderlein. Morph.: Yoshizawa, 2005b.  
*Stenopsocus chunfengae*\* Li Fasheng, 2005b: 90. China (VIII).  
*Stenopsocus daozeniensis*\* Li Fasheng, 2005b: 92. China (VIII).  
*Stenopsocus huangshanicus* Li Fasheng, 2002a. China (VIII): Li Fasheng, 2005b.  
*Stenopsocus immaculatus* (Stephens). Great Britain (I): New, 2005a; Saville, 2005; Alexander, 2006. Phylog.: Casasola Gonzalez, 2006a.  
*Stenopsocus lachlani* Kolbe. Great Britain (I): New, 2005a.  
*Stenopsocus lemniscingulae*\* Li Fasheng, 2005b: 90. China (VIII).  
*Stenopsocus niger* Enderlein. Morph.: Yoshizawa, 2005b.  
*Stenopsocus qianipullus*\* Li Fasheng, 2005b: 92. China (VIII).  
*Stenopsocus stigmaticus* (Imhoff & Labram). Great Britain (I): New, 2005a; Alexander, 2006.  
*Stenopsocus valvilacteus*\* Li Fasheng, 2005b: 91. China (VIII).  
*Stenopsocus xiangxiensis* Li Fasheng. China (VIII): Li Fasheng, 2005b.

### Amphipsocidae

*Amphipsocus japonicus* (Enderlein). Morph.: Yoshizawa, 2005b.  
*Amphipsocus wanxianicus* Li Fasheng. China (VIII): Li Fasheng, 2005b.  
*Dasydemella nerigra*\* Li Fasheng, 2005b: 96. China (VIII).  
*Kodamaius* spec. Taiwan (VIII): Yoshizawa, 2005b (morph.).  
*Kolbia fusconervosa* Enderlein. Morph.: Yoshizawa, 2005b.  
*Kolbia quisquiliarum* Bertkau. Great Britain (I): New, 2005a; Alexander, 2006.  
*Matsumuraiella radiopicta* Enderlein. Morph.: Yoshizawa, 2005b. Phylog.: Yoshizawa *et al.*, 2006.  
*Matsumuraiella sinica*\* Li Fasheng, 2005b: 97. China (VIII).  
*Siniamphipsocus yangi*\* Li Fasheng, 2005b: 95. China (VIII).  
*Taeniosigma* spec. Taiwan (VIII): Yoshizawa, 2005b (morph.).  
*Taeniosigma guizhouicum*\* Li Fasheng, 2005b: 94. China (VIII).

### Lachesillidae

Key to subfamilies and key to tribes of Eolachesillinae, including definition of Waoraniellini, new tribe within Eolachesillinae: Garcia Aldrete, 2006b.  
*Eolachesilla eocenica*\* Nel, Prokop, De Ploeg & Millet, 2005: 386. Tertiary amber (Eocene), France (A).  
*Lachesilla* spec. Vietnam (VIII): Yoshizawa, 2005b (morph.).  
*Lachesilla aliciae*\* Garcia Aldrete, 2005c: 132. Panama (IV).  
*Lachesilla anna* Sommerman. Phylog.: Murrell & Barker, 2005.  
*Lachesilla bernardi* Badonnel. Egypt (I): Ahmed, 1994.  
*Lachesilla biannulata*\* Garcia Aldrete, 2005c: 134. Panama (IV).  
*Lachesilla delicata*\* Garcia Aldrete, 2005c: 134. Panama (IV).  
*Lachesilla greeni* (Pearman). Great Britain (I): New, 2005a.  
*Lachesilla pedicularia* (Linnaeus). Czech Republic (I): Werner *et al.*, 1999 (pest); Stejskal *et al.*, 2003 (pest). Egypt (I): Ahmed, 1994. France (I): Dauphin, 2006 (morph.). Great Britain (I): New, 2005a; Saville, 2005;

Alexander, 2006. Pest: Rees, 2004. Morph.: Yoshizawa, 2005b.  
*Lachesilla quercus* (Kolbe). Austria (I): Lienhard, 2005e. Egypt (I): Ahmed, 1994. Great Britain (I): New, 2005a;  
Alexander, 2006. Australia (IX): Rees, 1994b (biol., pest). Pest: Rees, 2004.  
*Waoraniella*\*\* Garcia Aldrete, 2006b: 10. Gender: F. Type species: *Waoraniella erwini* Garcia Aldrete.  
*Waoraniella erwini*\* Garcia Aldrete, 2006b: 10. Ecuador (V).

#### Ectopsocidae

*Ectopsocopsis cryptomeriae* (Enderlein). Morph.: Yoshizawa, 2005b.  
*Ectopsocus* spec. Japan (VIII): Yoshizawa, 2005b (morph.).  
*Ectopsocus australis* Schmidt & Thornton. Phylog.: Murrell & Barker, 2005 (prob. *australis*).  
*Ectopsocus axillaris* (Smithers). Great Britain (I): New, 2005a.  
*Ectopsocus briggsi* McLachlan. Egypt (I): Ahmed, 1995a (morph.). Great Britain (I): New, 2005a; Saville, 2005;  
Alexander, 2006. Phylog.: Murrell & Barker, 2005.  
*Ectopsocus maindroni* Badonnel. Great Britain (I): New, 2005a. Italia (I): Nicoli Aldini, 2003, 2004c.  
*Ectopsocus meridionalis* Ribaga. Great Britain (I): New, 2005a. Biol.: Nokkala & Golub, 2006 (parthenogenesis).  
*Ectopsocus petersi* Smithers. Great Britain (I): New, 2005a; Saville, 2005; Alexander, 2006. Morph.: Ahmed, 1995b  
(fine structure of eggs).  
*Ectopsocus pumilis* (Banks). Switzerland (I): Gonseth, 2005. Morph.: Yoshizawa, 2005b.  
*Ectopsocus richardsi* (Pearman). Great Britain (I): New, 2005a. Switzerland (I): Gonseth, 2005.  
*Ectopsocus vachoni* Badonnel. Great Britain (I): New, 2005a. Switzerland (I): Gonseth, 2005.

#### Peripsocidae

*Peripsocus* spec. Japan (VIII): Yoshizawa, 2005b (morph.). Phylog.: Murrell & Barker, 2005.  
*Peripsocus alboguttatus* (Dalman). Great Britain (I): New, 2005a; Alexander, 2006.  
*Peripsocus consobrinus* Pearman. Great Britain (I): New, 2005a.  
*Peripsocus didymus* Roesler. Great Britain (I): New, 2005a; Saville, 2005; Alexander, 2006.  
*Peripsocus golubae*\* Lienhard, 2006b: 812. Russia (I).  
*Peripsocus ignis* Okamoto. Morph.: Yoshizawa, 2005b.  
*Peripsocus milleri* (Tillyard). Great Britain (I): New, 2005a.  
*Peripsocus parvulus* Kolbe. Austria (I): Lienhard, 2005e. Great Britain (I): New, 2005a.  
*Peripsocus phaeopterus* (Stephens). Great Britain (I): New, 2005a; Saville, 2005; Alexander, 2006.  
*Peripsocus quercicola* Enderlein. Morph.: Yoshizawa, 2005b.  
*Peripsocus subfasciatus* (Rambur). Great Britain (I): New, 2005a; Saville, 2005; Alexander, 2006.

#### Calopsocidae

*Calopsocus infelix* (Hagen). Morph.: Yoshizawa, 2005b.

#### Trichopsocidae

*Trichopsocus* spec. Great Britain (I): Alexander, 2006.  
*Trichopsocus brincki* Badonnel. Great Britain (I): New, 2005a.  
*Trichopsocus clarus* (Banks). Great Britain (I): New, 2005a.  
*Trichopsocus dalii* (McLachlan). Great Britain (I): New, 2005a; Alexander, 2006. Morph.: Ahmed, 1995b (fine  
structure of eggs); Yoshizawa, 2005b.

#### Archipsocidae

*Archipsocopsis* spec. Mexico (IV): Yoshizawa, 2005b (morph).  
*Archipsocopsis fernandi* (Pearman). Morph.: Yoshizawa, 2005b.  
*Archipsocus* spec. Mexico (IV): Yoshizawa, 2005b (morph). Phylog.: Yoshizawa *et al.*, 2006.  
*Archipsocus nomas* Gurney. Phylog.: Murrell & Barker, 2005.  
*Archipsocus puber* Hagen. Amber (Tertiary: Eocene) (A): Nel *et al.*, 2005: 388 (cf. *puber*, description, France); Engel  
& Perkovsky, 2006b (Ukraine).  
*Pararchipsocus pacificus* Badonnel, Mockford & Garcia Aldrete. Morph.: Yoshizawa, 2005b.  
*Pseudarchipsocus veracruzanus* Badonnel, Mockford & Garcia Aldrete. Morph.: Yoshizawa, 2005b.

#### Pseudocaeciliidae

*Allocaecilius sinensis* Lee & Thornton. Morph.: Yoshizawa, 2005b.  
*Heterocaecilius anomalus* (Thornton). Morph.: Yoshizawa, 2005b.  
*Heterocaecilius fuscus* Yoshizawa. Morph.: Yoshizawa, 2005b. Phylog.: Yoshizawa *et al.*, 2006.  
*Mesocaecilius chinensis*\* Li Fasheng, 2005b: 99. China (VIII).  
*Ophiodopelma glyptocephalum* Lienhard. Morph.: Yoshizawa, 2005b.  
*Pseudocaecilius citricola* (Ashmead). Morph.: Yoshizawa, 2005b.  
*Pseudocaecilius kagoshimensis* (Okamoto). Morph.: Yoshizawa, 2005b.

#### Philotarsidae

*Aaroniella* spec. Japan (VIII): Yoshizawa, 2005b (morph).

*Aaroniella badonneli* (Danks). Biol.: Nokkala & Golub, 2006 (parthenogenesis). Phylog.: Yoshizawa *et al.*, 2006.  
*Haplophallus* spec. Japan (VIII): Yoshizawa, 2005b (morph).  
*Philotarsus parviceps* Roesler. Great Britain (I): New, 2005a; Saville, 2005; Alexander, 2006.  
*Philotarsus picicornis* (Fabricius). Great Britain (I): New, 2005a; Saville, 2005. Morph.: Yoshizawa, 2005b.

#### Elipsocidae

*Antarctopsocus jeanneli* Badonnel. Phys. (cold tolerance): Sinclair & Chown, 2002; Slabber & Chown, 2004.  
*Cuneopalpus cyanops* (Rostock). Great Britain (I): New, 2005a.  
*Elipsocus* spec. Mexico (IV): Casasola Gonzalez, 2006a (phylog.). Japan (VIII): Yoshizawa, 2005b (morph.).  
*Elipsocus abdominalis* Reuter. Great Britain (I): New, 2005a; Saville, 2005; Alexander, 2006. Morph.: Yoshizawa, 2005b.  
*Elipsocus hyalinus* (Stephens). Great Britain (I): New, 2005a; Saville, 2005.  
*Elipsocus moebiusi* Tetens. Great Britain (I): New, 2005a; Saville, 2005.  
*Elipsocus nuptialis* Roesler. Great Britain (I): New, 2005a.  
*Elipsocus pumilis* (Hagen). Great Britain (I): New, 2005a; Saville, 2005; Alexander, 2006 (misspelled as *E. pusillus*). Morph.: Ahmed, 1995b (fine structure of eggs).  
*Hemineura dispar* Tetens. Morph.: Yoshizawa, 2005b.  
*Propopsocus pulchripennis* (Perkins). Great Britain (I): New, 2005a.  
*Pseudopsocus fusciceps* (Reuter). Great Britain (I): New, 2005a.  
*Pseudopsocus meridionalis* Badonnel. Austria (I): Lienhard, 2005e.  
*Pseudopsocus rostocki* Kolbe. Great Britain (I): New, 2005a; Alexander, 2006.  
*Reuterella helvimacula* (Enderlein). Austria (I): Lienhard, 2005e. Great Britain (I): New, 2005a; Saville, 2005; Alexander, 2006. Morph.: Yoshizawa, 2005b.

#### Mesopsocidae

*Idatenopsocus orientalis* (Vishnyakova). Morph.: Yoshizawa, 2005b.  
*Mesopsocus hongkongensis* Thornton. Morph.: Yoshizawa, 2005b. Phylog.: Yoshizawa *et al.*, 2006.  
*Mesopsocus immunis* (Stephens). Great Britain (I): New, 2005a; Saville, 2005; Alexander, 2006.  
*Mesopsocus laticeps* (Kolbe). Great Britain (I): New, 2005a.  
*Mesopsocus unipunctatus* (Müller). Austria (I): Lienhard, 2005e. Great Britain (I): New, 2005a; Alexander, 2006. Morph.: Yoshizawa, 2005b.

#### Hemipsocidae

*Hemipsocus* spec. Japan (VIII): Yoshizawa, 2005b (morph.). Phylog.: Yoshizawa *et al.*, 2006.  
*Hemipsocus chloroticus* (Hagen). Morph.: Yoshizawa, 2005b.  
*Metahemipsocus malleatus*\* Li Fasheng, 2005b: 98. China (VIII).

#### Psocidae

##### Amphigerontiinae

*Amphigerontia bifasciata* (Latreille). Great Britain (I): New, 2005a; Saville, 2005; Alexander, 2006.  
*Amphigerontia contaminata* (Stephens). Great Britain (I): New, 2005a; Saville, 2005; Alexander, 2006.  
*Amphigerontia jezoensis* Okamoto. Morph.: Yoshizawa, 2005b (misspelled: *Amphigerontia jozanensis*).  
*Blaste quadrimaculata* (Latreille). Great Britain (I): New, 2005a; Whitehead, 2006 (ecol.).  
*Blastopsocus lithinus* (Chapman). Phylog.: Murrell & Barker, 2005.  
*Pentablaste profunda* (Li Fasheng). China (VIII): Li Fasheng, 2005b.  
*Pentablaste quinquedentata* (Li Fasheng & Yang Chikun). China (VIII): Li Fasheng, 2005b.

##### Psocinae

*Atlantopsocus personatus* (Hagen). Great Britain (I): New, 2005a.  
*Hyalopsocus morio* (Latreille). Great Britain (I): New, 2005a.  
*Loensia fasciata* (Fabricius). Austria (I): Lienhard, 2005e. Great Britain (I): New, 2005a; Alexander, 2006.  
*Loensia longicaudata*\* Li Fasheng, 2005b: 104. China (VIII).  
*Loensia pearmani* Kimmins. Great Britain (I): New, 2005a.  
*Loensia variegata* (Latreille). Great Britain (I): New, 2005a; Saville, 2005; Alexander, 2006.  
*Longivalvus hyalospilus* Li Fasheng, 2002a. China (VIII): Li Fasheng, 2005b.  
*Longivalvus nubilus* (Enderlein). Morph.: Yoshizawa, 2005b.  
*Metylophorus nebulosus* (Stephens). Great Britain (I): New, 2005a; Saville, 2005; Alexander, 2006.  
*Metylophorus wuyinicus* Li Fasheng & Yang Chikun. China (VIII): Li Fasheng, 2005b.  
*Oreopsocus buholzeri* Lienhard. Israel (I): Lienhard, 2006b (further description of male).  
*Psocidus* spec. Japan (VIII): Yoshizawa, 2005b (morph.).  
*Psocidus multiplex* (Roesler). Amber (Tertiary: Eocene), Ukraine (A): Engel & Perkovsky, 2006b.  
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*Psocus bipunctatus* (Linnaeus). Great Britain (I): New, 2005a.  
*Ptycta enderleini* (Roesler). Yoshizawa & Smithers, 2006: 412 (redescription) (**from** *Trichadenotecnum*). Australia (IX).  
*Sigmatoneura kolbei* (Enderlein). Morph.: Yoshizawa, 2005bn  
*Symbiopsocus yajunae*\* Li Fasheng, 2005b: 101. China (VIII).  
*Trichadenopsocus ectocornis*\* Li Fasheng, 2005b: 104. China (VIII). NOTE: *Trichadenopsocus* Roesler is regarded as a junior synonym of *Trichadenotecnum* Enderlein by Yoshizawa, 2001a.  
*Trichadenotecnum circularoides* Badonnel. Australia (IX): Yoshizawa, 2004b and Yoshizawa & Smithers, 2006 (probably introduced).  
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#### Myopsocidae

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#### 4. Additions to the Bibliography

NOTE: Complete bibliographical references to publications cited in the present paper, which are not listed below, can be found in the World Bibliography (Lienhard & Smithers, 2002: 493-664) or in Parts 1 to 5 of the "Additions" (Psocid News, no. 4, 5, 6, 7, 8).

#### Remarks:

The following unpublished works are listed below (a copy of each is deposited in the psocid library of the Geneva Natural History Museum): Boatwain, 1998; Harris, 1999; Hossain, 1997; Luzajic, 1998; Saleem, 1997.

Each issue of "Psocid News" is separately quoted under Yoshizawa (ed.). Selected references to some particularly interesting contributions out of these newsletters can also be found under the authors' names.

Usually cross-references for all authors are made, as in the 2002-bibliography, except for papers with more than five authors which are merely cited as "first author *et al.*"; in cases of more than one editor, cross-references are usually only made for the first editor.

For a **subject bibliography** including these additions, see: <http://www.ville-ge.ch/musinfo/mhng/page-e/ps-bibli.htm>

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## 5. Corrections to Lienhard & Smithers, 2002

- Page 79: *Liposcelis bostrychophila*: Distribution: Add: Namibia: van der Made & Nevill, 1978. Delete under South Africa: van der Made, 1978.
- Page 113: *Epipsocopsis fumipennis* (Banks): *Epipsocus fumipennis* Banks, 1920: 310.
- Page 455: *Ptycta micromaculata* Thornton, Lee & Chui, 1972: 139.
- Page 530: Replace the reference Dodd, 1985 by the corrected version in the above bibliography.
- Page 615: Replace the reference Pike, 1994c by the corrected version in the above bibliography.
- Page 615: Replace the reference Pinniger, 1984 by the reference Pinniger, 1985 in the above bibliography.
- Page 619: Replace the references Rees, 1994b and Rees *et al.*, 1994 by the corrected versions in the above bibliography.
- Page 622: Replace the reference Roesli & Jones, 1994 by the corrected version in the above bibliography.
- Page 654: Replace the reference Wang Junjun *et al.*, 1994 by the corrected version in the above bibliography.

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**Next issue.** About Feb. 2008. Please let me have all contributions by Jan. 31 2008 if possible.

**Editorial address.** Psocid News is edited by Kazunori Yoshizawa at the Systematic Entomology, Faculty of Agriculture, Hokkaido University, Sapporo, 060-8589 JAPAN.

Telephone: +81-11-706-2424  
 Facsimile: +81-11-706-4939  
 E-mail: [psocid@res.agr.hokudai.ac.jp](mailto:psocid@res.agr.hokudai.ac.jp)  
 Web page: <http://www.psocodea.org>