

# Psocid News

The Psocidologists' Newsletter

No. 11 (Feb. 28, 2009)



*Graphopsocus cruciatus* (on the fronthead of a girl, Tokyo, Japan)

## PSOCOPTERA – WHO CARES?!

**Bob Saville** (National Barkfly Recording Scheme organiser, Edinburgh)

In the acknowledgments section of the second edition of Tim New's British Psocoptera handbook [New, T. 2005. *Psocids Psocoptera (Booklice and barklice)*. Handbooks for the identification of British Insects 1(7), 146pp Royal Entomological Society] Tim notes his disappointment that so few people have adopted Psocoptera for study in Britain in recent years. This was a problem that I was well aware of (and is, of course, also the case for most insect groups) but seeing it in black and white inspired me to seriously try to think of a solution. But what to do?!

A good number of years ago, when I was involved with the Scottish Wildlife Trust, I was asked to come up with an idea for a faunal project for trainee surveyors. I suggested a seasonal study of the psocids found on four yew trees at an estate near Edinburgh. The trainees had no experience of Psocoptera (or indeed any insects at all) and I was somewhat surprised but encouraged to see how quickly some of them developed an interest in the group. The project was so successful that it was run for four consecutive years. A good part of the reason for its success was because the information they needed to carry out the project was readily at hand. For example, the ability to easily identify species provided by Tim's handbook was a major help - if keys in foreign languages or scattered papers had been the only resource then the project would undoubtedly never have happened.

So it seems to me that the more readily accessible information is the more likely people are to get involved. But get involved with what? There are various levels. Some people have a mild curiosity about a species they've come across and would like to put a name to it (e.g. photographers), others with a greater interest might be inspired to keep a diary of sightings they have made whereas others with more scientific leanings might want to extend knowledge of the biology of the group. With encouragement people at one level can progress to higher levels and the more people that get on the ladder the greater the chance that some will get seriously involved. At least that's the theory!

Taking all these considerations into account my solution was to set up a national recording scheme for outdoor Psocoptera in Britain and Ireland. In keeping with the aim to involve people with only the slightest interest in the group I decided to use Keith Alexander's 'user-friendly' common name for outdoor psocids – barkflies. A crucial component of the National Barkfly Recording Scheme was to have a web presence that would provide easy access to different types of information. The website (<http://www.brc.ac.uk/schemes/barkfly/homepage.htm>) includes 1) a gallery of live species photos for casual observers, 2) an online key using annotated photos particularly geared for novice recorders and 3) species accounts including status, distribution (maps), phenology and habitat requirements to facilitate more serious study. I don't have the knowledge to create websites so I was very grateful to BRC (Biological Record Centre) for assigning a member of staff to the task. The feedback I have had so far is encouraging. Time will tell whether the strategy works in the long term.

## **ADDITIONS AND CORRECTIONS (PART 8) TO LIENHARD & SMITHERS, 2002: "PSOCOPTERA (INSECTA) - WORLD CATALOGUE AND BIBLIOGRAPHY"**

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

### **1. Introduction**

This is the 8th part of a series of "Additions and Corrections to the World Catalogue and Bibliography" published in "Psocid News" (Parts 1-7 in Psocid News no. 4-10). 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 1-7). 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 7 of the "Additions" (Psocid News, no. 4-10).

### **2. List of countries mentioned in the "Additions and Corrections to the World Catalogue" (Parts 1-8)**

Country checklists of Psocoptera species extracted from the 2002-World Catalogue are available at: <http://www.ville-ge.ch/mhng/psocoptera/page/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 8 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: 1-17
- Part 7: published in Psocid News, no. 10: 1-18
- Part 8: published in Psocid News, no. 11 (= present issue)

(I) Austria (Parts 1, 3, 4, 5, 6, 8), Bahrain (Part 8), Belgium (Parts 3, 6, 8), Bulgaria (Part 8), Croatia (Parts 6,7), Czech Republic (Parts 1, 4, 5, 6, 7, 8), Egypt (Part 6), Finland (Parts 1, 7), France (Parts 1, 3, 4, 6, 7, 8), Germany (Parts 1, 3, 4, 5, 7, 8), Great Britain (Parts 1, 3, 4, 5, 6, 7, 8), Greece (Parts 5, 6), Hungary (Parts 1, 3), Iran (Parts 6, 8), Ireland (Part 6), Israel (Parts 4, 6, 8), Italy (Parts 1, 3, 5, 6, 7, 8), Lebanon (Parts 6, 7), Lithuania (Part 8), Luxembourg

(Parts 1, 3, 7, 8), Netherlands (Parts 4, 7), Norway (Part 4), Oman (Part 8), Portugal (Parts 6, 7), Russia (Parts 6, 8), Saudi Arabia (Part 8), Slovakia (Part 1), Spain (Parts 1, 5, 7, 8), Sweden (Part 8), Switzerland (Parts 1, 3, 4, 6, 7, 8), Turkey (Part 5), UAE (Part 8), Ukraine (Part 6), Yemen (Parts 4, 8)

(II) Azores (Part 5), Canary Islands (Parts 1, 4, 5), Cape Verde Islands (Part 5), Gough Island (Parts 5, 6), Madeira (Parts 5, 8), Saint Helena (Part 5), Selvagens Islands (Parts 1, 8)

(III) Canada (Parts 4, 6, 7, 8), USA (Parts 1, 4, 5, 6, 7, 8)

(IV) Belize (Parts 1, 4, 6, 8), Costa Rica (Parts 1, 6, 8), Cuba (Part 6), Dominica (Parts 5, 6), Dominican Republic (Parts 4, 6, 7, 8), Guatemala (Parts 1, 4, 7, 8), Haiti (Parts 1, 4), Honduras (Part 8), Jamaica (Parts 7, 8), Mexico (Parts 1, 3, 4, 5, 6, 7, 8), Nicaragua (Parts 1, 3, 4, 6, 7, 8), Panama (Parts 4, 6, 8), Puerto Rico (Parts 1, 7), Trinidad (Part 1)

(V) Argentina (Parts 3, 4, 8), Bolivia (Parts 1, 5), Brazil (Parts 1, 4, 5, 6, 7, 8), Chile (Parts 1, 4, 6, 8), Colombia (Part 1), Ecuador (Parts 1, 6, 8), Peru (Parts 1, 5, 6, 8), Venezuela (Parts 1, 4, 6, 7, 8)

(VI) Ghana (Part 4), Guinea (Part 1), Kenya (Part 4), Madagascar (Part 5), Malawi (Part 3), Namibia (Parts 1, 6, 7, 8), South Africa (Parts 3, 6, 7, 8), Tanzania (Parts 3, 4), Uganda (Part 6)

(VIII) Brunei (Parts 5, 6), China (Parts 2, 3, 5, 6, 7, 8), Hong Kong (Part 5), India (Parts 3, 5, 6, 7), Indonesia (Parts 1, 3, 5, 6), Japan (Parts 1, 4, 6, 7, 8), Kuril Islands (Part 4), Kyrgyzstan (Part 5), Laos (Parts 5, 6), Malaysia (Parts 1, 5, 6, 8), Myanmar (Parts 6, 8), Nepal (Part 7), New Guinea (Parts 3, 5, 8), Philippines (Parts 3, 5, 6), Russia (Part 1), SE-Asia (Part 7), Singapore (Part 5), Sri Lanka (Parts 4, 6), Taiwan (Parts 1, 6, 7, 8), Thailand (Parts 1, 4, 5, 6), USSR (Part 4), Vietnam (Parts 4, 5, 6, 8)

(IX) Australia (Parts 1, 4, 5, 6, 7, 8), Lord Howe Island (Parts 4, 7), New Zealand (Parts 1, 4)

(X) Fiji (Part 8), Galapagos (Part 5), Hawaii (Part 8)

(A) Amber and Copal (or other fossils) (Parts 1, 3, 5, 6, 7, 8)

### 3. Additions to the Catalogue

#### Psocodea

##### Archipsyllidae

Huang *et al.*, 2008: Family Archipsyllidae included in Psocodea (assignment to suborder not possible).

*Archipsylla sinica\** Huang, A. Nel, Azar & P. Nel, 2008: 462. Middle Jurassic fossil (A) from China (VIII).

#### Psocoptera

Holusa, 2003b, 2003c, 2004, 2005b, 2005c, 2006a, 2006b, 2006c, 2007a, 2007d (ecol., forests of Eastern Europe). Liang Ai-Ping 2003 (book review). Chapman *et al.*, 2004 (aerial netting). Humala, 2006 (Russia: Karelia, 1 spec. mentioned). Lin Ying-hua *et al.*, 2006 (leaf litter, China). Aspöck, 2007 (biography of M. Meinander, with several photographs). Battirola *et al.*, 2007 (ecol., Brazil). Ferreira *et al.*, 2007 (ecol., cave, Brazil). Gedminas *et al.*, 2007 (ecol., Lithuania). Huber *et al.*, 2007 (symmetry and asymmetry in genital morphology; mating position and genital coupling). Kenis *et al.*, 2007 (Austria, Switzerland: Psoc. well represented in alien fauna, species not mentioned). Paccagnini *et al.*, 2007 (comparison of spermatozoa of Thysanoptera with Psocodea). Perrichot *et al.*, 2007 (Cretaceous amber from France, review). Alexander, 2008a (book review). Fraval, 2008 (general biology and domestic pests, several species mentioned). Hubenov, 2008 (Bulgaria: Psoc. considered as poorly investigated). Huseynov *et al.*, 2008 (predat.: Psoc. as possible prey of a salticid spider). Li Fasheng *et al.*, 2008 (history of Psoc. taxonomy in China; distribution patterns of Psoc. in China). Huber *et al.*, 2008 (Psoc. mentioned as probable hosts of Mymarommatidae parasitoids). Lienhard, 2008b (additions and corrections to the World Catalogue). Sequeiros San Roman *et al.*, 2008 (biography of Longinos Navas). Taber *et al.*, 2008 (ecol., density in burned forest). Teplitsky *et al.*, 2008 (Psoc. as allergen). Toledo & Moreira, 2008 (psocids as possible food resource for hummingbirds in Brazil). Yoshizawa, 2008a (newsletter).

#### Lepidopsocidae

*Neolepidopsocus chinensis* Li Fasheng. China (VIII): Zhan Meiling, 2006.

*Pteroxanium kelloggi* (Ribaga). Great Britain (I): Alexander, 2007e. Madeira (II): Baz, 2008.

#### Trogiidae

*Cerobasis albipes* Lienhard. Madeira (II): Baz, 2008.

*Cerobasis annulata* (Hagen). Madeira, Selvagens Islands (II): Baz, 2008.

*Cerobasis guestfalica* (Kolbe). Luxembourg (I): Schneider & Carrières, 2008. Switzerland (I): Burckhardt *et al.*, 2008. Saudi Arabia (I): Lienhard, 2008a.

*Cerobasis maderensis* Lienhard. Madeira (II): Baz, 2008.

*Cerobasis nigra* Lienhard. Madeira (II): Baz, 2008.

*Cerobasis socotrae* Lienhard. Yemen: Socotra (I): Lienhard, 2008a.

*Lepinotus inquilinus* Heyden. Madeira (II): Baz, 2008.

*Lepinotus patruelis* Pearman. Switzerland (I): Burckhardt *et al.*, 2008.

*Lepinotus reticulatus* Enderlein. Spain (I): Pascual-Villalobos *et al.*, 2006 (pest). Switzerland (I): Burckhardt *et al.*, 2008. UAE (I): Lienhard, 2008a. Selvagens Islands (II): Baz, 2008. Biol.: Opit & Throne, 2008a (population dynamics), 2008b (culture). Pest: Opit & Throne, 2008a, 2008b. Phys.: Guedes *et al.*, 2008b (heat tolerance).

*Trogium pulsatorium* (Linnaeus). Madeira (II): Baz, 2008.

*Trogium vanharteni*\* Lienhard, 2008a: 105. UAE (I).

#### Psyllipsocidae

*Dorypteryx domestica* (Smithers). Germany (I): Dorow & Kopalke, 2007. Anat., chrom.: Golub & Kucerova, 2008.

*Dorypteryx longipennis* Smithers. Spain (I): Pascual-Villalobos *et al.*, 2006 (pest).

*Psocathropos lachlani* Ribaga. Bahrain (I): Lienhard, 2008a. Madeira (II): Baz, 2008.

*Psyllipsocus* spec. UAE (I): Lienhard, 2008a: 108.

*Psyllipsocus ramburii* Selys-Longchamps. Madeira, Selvagens Islands (II): Baz, 2008.

*Psyllipsocus sinicus* Li Fasheng & Yang Chikun. China (VIII): Zhan Meiling, 2006.

#### Prionoglarididae

*Afrotroglia fabella* Lienhard, 2007b. Namibia (VI): Lienhard, 2008c (map of distr.).

*Afrotroglia maraisi* Lienhard, 2007b. Namibia (VI): Lienhard, 2008c (map of distr.).

*Afrotroglia oryx* Lienhard, 2007b. South Africa (VI): Lienhard, 2008c (map of distr.).

*Sensitibilla brandbergensis* Lienhard, 2007b. Namibia (VI): Lienhard, 2008c (map of distr.).

*Sensitibilla roessingensis* Lienhard, 2007b. Namibia (VI): Lienhard, 2008c (map of distr.).

*Sensitibilla strinatti* Lienhard. Namibia (VI): Lienhard, 2008c (habitus fig., map of distr.).

#### Compsocidae

*Burmacompsocus*\*\* Nel & Waller, 2007: 1039. Gender: M. Type species: *Burmacompsocus perreauti* Nel & Waller.

*Burmacompsocus perreauti*\* Nel & Waller, 2007: 1039. Myanmar (VIII): Cretaceous Burmese amber (A).

#### Amphientomidae

*Nephax* spec. UAE (I): Lienhard, 2008a: 108.

*Paramphientomum triangulum* Li Fasheng. China (VIII): Zhan Meiling, 2006.

#### Liposcelididae

*Belaphotroctes atlanticus* Lienhard. Madeira (II): Baz, 2008.

*Belaphotroctes ghesquierei* Badonnel. UAE (I): Lienhard, 2008a.

*Embidopsocus enderleini* (Ribaga). Madeira (II): Baz, 2008.

*Liposcelis* Motschulsky. Morphology of phallosome, keys to species of several species complexes: Mockford & Krushelnnycky, 2008.

*Liposcelis* spec. Germany (I): Dorow & Kopalke, 2007. UAE (I): Lienhard, 2008a.

*Liposcelis badia* Wang, Wang & Lienhard, 2006. Biol.: Jiang Hong-Bo *et al.*, 2008.

*Liposcelis bostrychophila* Badonnel. Description of male from Hawaii (X): Mockford & Krushelnnycky, 2008: 63. Czech Republic (I): Qin Meng *et al.*, 2008 (rapid discrimination by PCR-RFLP). Spain (I): Pascual-Villalobos *et al.*, 2006 (pest). UAE (I): Lienhard, 2008a. Madeira (II): Baz, 2008. China (VIII): Qin Meng *et al.*, 2007, 2008 (rapid discrimination by PCR-RFLP). Australia (IX): Mikac, 2007 (population genetics). Hawaii (X): Mockford & Krushelnnycky, 2008. Biol.: Green, 2008b; Wang Jin-Jun *et al.*, 2008 (endosymbiotic bacteria). Pest: Riudavets *et al.*, 2006 (control); Ahmedani *et al.*, 2007 (control); Green, 2008a; Guedes *et al.*, 2008a (control); Nayak & Collins, 2008 (control). Phys.: Cheng Wei-Xia *et al.*, 2006, 2007.

*Liposcelis brunnea* Motschulsky. Germany (I): Dorow & Kopalke, 2007. Spain (I): Pascual-Villalobos *et al.*, 2006 (pest). UAE (I): Lienhard, 2008a.

*Liposcelis corrodens* (Heymons). Germany (I): Dorow & Kopalke, 2007.

*Liposcelis decolor* (Pearman). Czech Republic (I): Qin Meng *et al.*, 2008 (rapid discrimination by PCR-RFLP). Germany (I): Dorow & Kopalke, 2007. Great Britain (I): Saville *et al.*, 2008. Spain (I): Pascual-Villalobos *et al.*, 2006 (pest). UAE (I): Lienhard, 2008a. Madeira (II): Baz, 2008. China (VIII): Qin Meng *et al.*, 2007, 2008 (rapid discrimination by PCR-RFLP). Australia (IX): Mikac, 2007 (population genetics). Biol.: Tang Pei-An *et al.*, 2008 (life table).

*Liposcelis deltachi* Sommerman. Hawaii (X): Mockford & Krushelnnycky, 2008.

*Liposcelis entomophila* (Enderlein). Czech Republic (I): Qin Meng *et al.*, 2008 (rapid discrimination by PCR-RFLP). Spain (I): Pascual-Villalobos *et al.*, 2006 (pest). China (VIII): Qin Meng *et al.*, 2007, 2008 (rapid discrimination by PCR-RFLP). Biol.: Shao Ying *et al.*, 2006 (sex pheromone); Opit & Throne, 2008b (culture). Pest: Guedes *et al.*, 2008a (control); Opit & Throne, 2008b. Phys.: Cheng Wei-Xia *et al.*, 2006, 2007; Guedes *et al.*, 2008b (heat tolerance).

*Liposcelis kipukae*\* Mockford & Krushelnnycky, 2008: 61. Hawaii (X).

*Liposcelis maunakea*\* Mockford & Krushelnnycky, 2008: 56. Hawaii (X).

*Liposcelis mendax* Pearman. Spain (I): Pascual-Villalobos *et al.*, 2006 (pest).

*Liposcelis meridionalis* (Rosen). Madeira (II): Baz, 2008.

*Liposcelis obscura* Broadhead. UAE, Yemen (I): Lienhard, 2008a.

*Liposcelis paeta* Pearman. Czech Republic (I): Qin Meng *et al.*, 2008 (rapid discrimination by PCR-RFLP). UAE (I): Lienhard, 2008a (ecol.). China (VIII): Qin Meng *et al.*, 2007, 2008 (rapid discrimination by PCR-RFLP); Ren Yi *et al.*, 2008 (pest, control).

*Liposcelis paetula* Broadhead. Madeira (II): Baz, 2008.

*Liposcelis rufa* Broadhead. Spain (I): Pascual-Villalobos *et al.*, 2006 (pest). Hawaii (X): Mockford & Krushelnicky, 2008.

*Liposcelis silvarum* (Kolbe). Germany (I): Dorow & Kopalke, 2007. Switzerland (I): Burckhardt *et al.*, 2008.

*Liposcelis volcanorum\** Mockford & Krushelnicky, 2008: 57. Hawaii (X).

#### Pachytroctidae

*Pachytroctes aegyptius* Enderlein. Description of macropterous female and further description of apterous female: Lienhard, 2008a. UAE (I).

*Peritroctes deserticus\** Lienhard, 2008a: 113. UAE (I).

*Tapinella curvata* Badonnel. UAE (I): Lienhard, 2008a (fig., disc.).

#### Epipsocidae

*Bertkauiia lucifuga* (Rambur). Germany (I): Dorow & Kopalke, 2007. Great Britain (I): Hollier, 2008 (ecol.). Switzerland (I): Burckhardt *et al.*, 2008. Madeira (II): Baz, 2008.

*Mesepipsocoides\*\** Garcia Aldrete & Casasola Gonzalez, 2008: 219. Gender: M. Type species: *Mesepipsocoides perezgelaberti* Garcia Aldrete & Casasola Gonzalez.

*Mesepipsocoides perezgelaberti\** Garcia Aldrete & Casasola Gonzalez, 2008: 219. Dominican Republic (IV).

*Mesepipsocus* spec. Belize (IV), Brazil, Ecuador (V): Garcia Aldrete & Casasola Gonzalez, 2008 (fig.).

*Mesepipsocus arborescens* (New & Thornton). Ecuador (V): Garcia Aldrete & Casasola Gonzalez, 2008 (fig.).

*Mesepipsocus capitulatus* (New). Peru (V): Garcia Aldrete & Casasola Gonzalez, 2008 (fig.).

*Mesepipsocus umbratus* (New & Thornton). Peru (V): Garcia Aldrete & Casasola Gonzalez, 2008 (fig.).

#### Asiopsocidae

*Asiopsocus meridionalis* Lienhard. Oman, UAE (I): Lienhard, 2008a.

*Asiopsocus vanharteni* Lienhard. Yemen: Socotra (I): Lienhard, 2008a.

#### Caeciliusidae

*Caecilius biviminalis* Li Fasheng. China (VIII): Zhan Meiling, 2006.

*Caecilius fuscopterus* (Latreille). Luxembourg (I): Schneider & Carrières, 2008. Sweden (I): Svensson & Solbreck, 2008. Switzerland (I): Burckhardt *et al.*, 2008.

*Caecilius loratus* Li Fasheng. China (VIII): Zhan Meiling, 2006.

*Caecilius sordidus* Li Fasheng. China (VIII): Zhan Meiling, 2006.

*Enderleinella obsoleta* (Stephens). Czech Republic (I): Holusa, 2007c. Switzerland (I): Burckhardt *et al.*, 2008.

*Epicaecilius pilipennis* (Lienhard). Madeira (II): Baz, 2008.

*Maoripsocus koriflae* (Arahou). Madeira (II): Baz, 2008.

*Paracaecilius anareolatus\** Lienhard, 2008d: 498. Vietnam (VIII).

*Stenocaecilius caboverdensis* (Meinander). Madeira (II): Baz, 2008.

*Valenzuela atricornis* (McLachlan). Luxembourg (I): Schneider & Carrières, 2008.

*Valenzuela burmeisteri* (Brauer). Czech Republic (I): Holusa, 2007b, 2007c, 2008. Germany (I): Dorow & Kopalke, 2007. Luxembourg (I): Schneider & Carrières, 2008. Sweden (I): Svensson & Solbreck, 2008 (fig.). Switzerland (I): Burckhardt *et al.*, 2008. Madeira (II): Baz, 2008.

*Valenzuela delicatulus* (Li Fasheng). China (VIII): Zhan Meiling, 2006.

*Valenzuela despaxi* (Badonnel). Czech Republic (I): Holusa, 2007c, 2008. Luxembourg (I): Schneider & Carrières, 2008.

*Valenzuela flavidus* (Stephens). Czech Republic (I): Holusa, 2007b, 2007c, 2008. Germany (I): Dorow & Kopalke, 2007. Great Britain (I): Chapman *et al.*, 2004 (by aerial netting). Luxembourg (I): Schneider & Carrières, 2008. Switzerland (I): Burckhardt *et al.*, 2008. Madeira (II): Baz, 2008. Parasit.: Keller, 2008 (pathogenic fungi).

*Valenzuela gynapterus* (Tetens). Germany (I): Dorow & Kopalke, 2007. Luxembourg (I): Schneider & Carrières, 2008. Sweden (I): Svensson & Solbreck, 2008. Switzerland (I): Burckhardt *et al.*, 2008.

*Valenzuela patellaris* (Li Fasheng). China (VIII): Zhan Meiling, 2006.

*Valenzuela piceus* (Kolbe). Czech Republic (I): Holusa, 2007b, 2007c, 2008. Luxembourg (I): Schneider & Carrières, 2008. Switzerland (I): Burckhardt *et al.*, 2008.

*Valenzuela trimaculatus* (Li Fasheng). China (VIII): Zhan Meiling, 2006.

#### Stenopsocidae

*Graphopsocus cruciatus* (Linnaeus). Czech Republic (I): Holusa, 2007b. Germany (I): Dorow & Kopalke, 2007. Luxembourg (I): Schneider & Carrières, 2008. Sweden (I): Svensson & Solbreck, 2008. Switzerland (I): Burckhardt *et al.*, 2008. Madeira (II): Baz, 2008.

*Stenopsocus brachychelus* Li Fasheng & Yang Chikun. China (VIII): Zhan Meiling, 2006.

*Stenopsocus eucallus* Li Fasheng & Yang Chikun. China (VIII): Zhan Meiling, 2006.

*Stenopsocus fanjingshanicus* Li Fasheng & Yang Chikun. China (VIII): Zhan Meiling, 2006.

*Stenopsocus gracillimus* Li Fasheng & Yang Chikun. China (VIII): Zhan Meiling, 2006.

*Stenopsocus immaculatus* (Stephens). Czech Republic (I): Holusa, 2007b. Germany (I): Dorow & Kopalke, 2007. Luxembourg (I): Schneider & Carrières, 2008.

***Stenopsocus lachlani*** Kolbe. Czech Republic (I): Holusa, 2007b, 2007c, 2008. Luxembourg (I): Schneider & Carrières, 2008. Sweden (I): Svensson & Solbreck, 2008.  
***Stenopsocus maculosus*** Li Fasheng & Yang Chikun. China (VIII): Zhan Meiling, 2006.  
***Stenopsocus stigmaticus*** (Imhoff & Labram). Czech Republic (I): Holusa, 2007b. Great Britain (I): Whitehead, 2005. Luxembourg (I): Schneider & Carrières, 2008.

#### **Amphipsocidae**

***Amphipsocus purpureus*** Li Fasheng & Yang Chikun. China (VIII): Zhan Meiling, 2006.  
***Dasydemella stipitiformis*** Li Fasheng. China (VIII): Zhan Meiling, 2006.  
***Kolbia quisquiliarum*** Bertkau. Czech Republic (I): Holusa, 2007b. Germany (I): Dorow & Kopalke, 2007. Great Britain (I): Hollier, 2008 (ecol.). Luxembourg (I): Schneider & Carrières, 2008. Sweden (I): Svensson & Solbreck, 2008.

#### **Lachesillidae**

***Lachesilla bernardi*** Badonnel. Belgium (I): Schneider & Carrières, 2008 (p. 104). Luxembourg (I): Schneider & Carrières, 2008 (fig.). UAE (I): Lienhard, 2008a.  
***Lachesilla buettikeri*** New. Saudi Arabia (I): Lienhard, 2008a.  
***Lachesilla greeni*** (Pearman). Madeira (II): Baz, 2008.  
***Lachesilla oaxacana*** Garcia Aldrete, 2001e. Morph.: Garcia Aldrete, 2007b.  
***Lachesilla pedicularia*** (Linnaeus). Czech Republic (I): Holusa, 2007b, 2008. Germany (I): Dorow & Kopalke, 2007. Luxembourg (I): Schneider & Carrières, 2008. Sweden (I): Svensson & Solbreck, 2008 (fig.). Madeira (II): Baz, 2008.  
***Lachesilla quercus*** (Kolbe). Czech Republic (I): Holusa, 2007b, 2007c. Germany (I): Dorow & Kopalke, 2007. Saudi Arabia (I): Lienhard, 2008a. Switzerland (I): Burckhardt *et al.*, 2008.  
***Lachesilla tectorum*** Badonnel. UAE (I): Lienhard, 2008a. Madeira (II): Baz, 2008.  
***Lachesilla tlapanensis\**** Garcia Aldrete, 2007b: 108. Mexico (IV).  
***Lachesilla xalapensis*** Garcia Aldrete, 2001e. Morph.: Garcia Aldrete, 2007b.

#### **Ectopsocidae**

***Ectopsocus*** spec. UAE (I): Lienhard, 2008a: 118.  
***Ectopsocus axillaris*** (Smithers). Great Britain (I): Whitehead, 2005.  
***Ectopsocus briggsi*** McLachlan. Great Britain (I): Hollier, 2008 (ecol.). Iran (I): Ahadiyat & Zangeneh, 2007. Switzerland (I): Burckhardt *et al.*, 2008. Madeira (II): Baz, 2008.  
***Ectopsocus californicus*** (Banks). Argentina (V): Toledo *et al.*, 2008 (host of pathogenic fungus).  
***Ectopsocus maindroni*** Badonnel. Oman, Saudi Arabia, UAE (I): Lienhard, 2008a.  
***Ectopsocus meridionalis*** Ribaga. Czech Republic (I): Holusa, 2007b. Luxembourg (I): Schneider & Carrières, 2008. Switzerland (I): Burckhardt *et al.*, 2008.  
***Ectopsocus petersi*** Smithers. Great Britain (I): Hollier, 2008 (ecol.).  
***Ectopsocus rileyae*** Schmidt & Thornton. Madeira (II): Baz, 2008.  
***Ectopsocus strauchi*** Enderlein. Selvagens Islands (II): Baz, 2008.

#### **Peripsocidae**

***Peripsocus alboguttatus*** (Dalman). Czech Republic (I): Holusa, 2007b, 2007c. Luxembourg (I): Schneider & Carrières, 2008. Madeira (II): Baz, 2008.  
***Peripsocus bivari*** Baz. Madeira (II): Baz, 2008.  
***Peripsocus bucerus*** Li Fasheng. China (VIII): Zhan Meiling, 2006.  
***Peripsocus consobrinus*** Pearman. Great Britain (I): Saville, 2008 (variability, figs); Saville *et al.*, 2008.  
***Peripsocus didymus*** Roesler. Czech Republic (I): Holusa, 2007b, 2007c, 2008. Luxembourg (I): Schneider & Carrières, 2008. Morph.: Saville, 2008 (variability, figs).  
***Peripsocus milleri*** (Tillyard). Great Britain (I): Alexander, 2008b. Madeira (II): Baz, 2008.  
***Peripsocus parvulus*** Kolbe. Czech Republic (I): Holusa, 2007b. Luxembourg (I): Schneider & Carrières, 2008.  
***Peripsocus phaeopterus*** (Stephens). Czech Republic (I): Holusa, 2007b, 2007c. Luxembourg (I): Schneider & Carrières, 2008.  
***Peripsocus platypus*** Li Fasheng. China (VIII): Zhan Meiling, 2006 (as *P. platypus*).  
***Peripsocus subfasciatus*** (Rambur). Czech Republic (I): Holusa, 2007b, 2007c. Germany (I): Dorow & Kopalke, 2007. Great Britain (I): Alexander, 2008b (reported as *P. milleri* by Saville *et al.*, 2007); Hollier, 2008 (ecol.). Luxembourg (I): Schneider & Carrières, 2008.

#### **Trichopsocidae**

***Trichopsocus brincki*** Badonnel. Great Britain (I): Alexander, 2007e; Saville *et al.*, 2008. Madeira (II): Golub & Nunes, 2007 (cytol., anat.); Baz, 2008.  
***Trichopsocus clarus*** (Banks). Great Britain (I): Saville *et al.*, 2008 (fig.). Madeira (II): Golub & Nunes, 2007 (cytol., anat.); Baz, 2008.  
***Trichopsocus coloratus*** Lienhard. Madeira (II): Baz, 2008.

*Trichopsocus dalii* (McLachlan). Iran (I): Ahadiyat & Zangeneh, 2007. Luxembourg (I): Schneider & Carrières, 2008.

Switzerland (I): Burckhardt *et al.*, 2008.

*Trichopsocus difficilis* Lienhard. Madeira (II): Baz, 2008.

*Trichopsocus fastuosus* (Navas). Madeira (II): Baz, 2008.

*Trichopsocus marmoratus* (Hagen). Madeira (II): Baz, 2008.

#### Pseudocaeciliidae

*Heterocaecilius* spec. Argentina (V): Toledo *et al.*, 2008 (host of pathogenic fungus).

*Mesocaecilius elegans* Li Fasheng. China (VIII): Zhan Meiling, 2006.

*Novopsocus* Thornton. Revised diagnosis, key to species: Cuénoud, 2008a.

*Novopsocus caeciliae*\* Cuénoud, 2008a: 338. New Guinea (VIII).

*Novopsocus magnus*\* Cuénoud, 2008a: 333. New Guinea (VIII).

*Novopsocus stenopterus* (Thornton & Smithers). Revised diagnosis, description of male: Cuénoud, 2008a: 336. New Guinea (VIII).

*Pseudocaecilius octomaculatus* (Li Fasheng). China (VIII): Zhan Meiling, 2006.

#### Philotarsidae

*Philotarsus parviceps* Roesler. Czech Republic (I): Holusa, 2007b, 2007c. Luxembourg (I): Schneider & Carrières, 2008. Sweden (I): Svensson & Solbreck, 2008.

*Philotarsus picicornis* (Fabricius). Czech Republic (I): Holusa, 2007b, 2007c, 2008. Luxembourg (I): Schneider & Carrières, 2008. Sweden (I): Svensson & Solbreck, 2008.

#### Elipsocidae

*Cuneopalpus cyanops* (Rostock). Czech Republic (I): Holusa, 2007c. Germany (I): Dorow & Kopalke, 2007.

*Elipsocus* spec. Switzerland (I): Burckhardt *et al.*, 2008. UAE (I): Lienhard, 2008a.

*Elipsocus abdominalis* Reuter. Germany (I): Dorow & Kopalke, 2007. Luxembourg (I): Schneider & Carrières, 2008. Sweden (I): Svensson & Solbreck, 2008.

*Elipsocus hyalinus* (Stephens). Czech Republic (I): Holusa, 2007b. Germany (I): Dorow & Kopalke, 2007. Luxembourg (I): Schneider & Carrières, 2008.

*Elipsocus moebiusi* Tetens. Czech Republic (I): Holusa, 2007b. Germany (I): Dorow & Kopalke, 2007. Luxembourg (I): Schneider & Carrières, 2008.

*Elipsocus pumilis* (Hagen). Czech Republic (I): Holusa, 2007c. Germany (I): Dorow & Kopalke, 2007. Great Britain (I): Alexander, 2007d (misspelled *E. pumilus*). Luxembourg (I): Schneider & Carrières, 2008.

*Elipsocus pusillus* Lienhard. Alexander, 2007d: species not known from Great Britain (I), erroneously mentioned by Alexander 2007a (see also correction in Lienhard, 2008b).

*Hemineura* spec. UAE (I): Lienhard, 2008a: 119.

*Hemineura dispar* Tetens. Czech Republic (I): Holusa, 2007c.

*Hemineura wittmeri* Badonnel. Saudi Arabia (I): Lienhard, 2008a.

*Propsocus pulchripennis* (Perkins). Madeira (II): Baz, 2008.

*Pseudopsocus fusciceps* (Reuter). Sweden (I): Svensson & Solbreck, 2008.

*Pseudopsocus meridionalis* Badonnel. Switzerland (I): Burckhardt *et al.*, 2008.

*Reuterella helvimagula* (Enderlein). Sweden (I): Svensson & Solbreck, 2008.

#### Mesopsocidae

*Cyrtosochus* Costa. Lienhard, 2008a: Comparison with *Rhinopsocus* Badonnel & Lienhard and with *Arabopsocus* Lienhard (name misspelled *Cytopsoccus* on p. 130).

*Mesopsocus* spec. UAE (I): Lienhard, 2008a: 119.

*Mesopsocus laticeps* (Kolbe). Czech Republic (I): Holusa, 2007b. Luxembourg (I): Schneider & Carrières, 2008. Switzerland (I): Burckhardt *et al.*, 2008.

*Mesopsocus unipunctatus* (Müller). Czech Republic (I): Holusa, 2007b, 2007c, 2008. Germany (I): Dorow & Kopalke, 2007. Luxembourg (I): Schneider & Carrières, 2008. Sweden (I): Svensson & Solbreck, 2008.

*Mesopsocus yemenitus* Lienhard. Yemen (I): Lienhard, 2008a.

*Psoculus neglectus* (Roesler). UAE (I): Lienhard, 2008a (morph.). Madeira (II): Baz, 2008.

*Rhinopsocus cincinnatus* Lienhard. Description of female: Lienhard, 2008a: 120. UAE (I).

[Not *Rhinopsocus cincinnatus* Lienhard. Lienhard, 1995 (female from Yemen). See *Rhinopsocus micrithmus* Lienhard, 2008a].

[Not *Rhinopsocus cincinnatus*; Lienhard, 1988: 357 (male non-type from Yemen). See discussion in Lienhard, 2008a].

*Rhinopsocus isthmicus*\* Lienhard, 2008a: 122. UAE (I).

*Rhinopsocus micrithmus*\* Lienhard, 2008a: 122. Yemen (I).

*Rhinopsocus cincinnatus* Lienhard, 1995 (female from Yemen). See Lienhard 2008a.

[Not *Rhinopsocus cincinnatus* Lienhard, 1988; see Lienhard, 2008a].

#### Hemipsocidae

*Hemipsocus* spec. Malaysia (VIII): Yoshizawa & Johnson, 2008 (phylog.).

*Metahemipsocus bicuspidatus* Li Fasheng, 2002a. China (VIII): Zhan Meiling, 2006.

## Psocidae

Phylogenetic analysis and revised classification: Yoshizawa & Johnson, 2008.

### Amphigerontiinae

*Amphigerontiini* sensu Li Fasheng, 2002a. Tribal status confirmed: Yoshizawa & Johnson, 2008.

*Blastini* Li Fasheng, 2002a. Tribal status confirmed: Yoshizawa & Johnson, 2008.

*Kaindipsocini* Yoshizawa & Johnson, 2008: 557. Type genus: *Kaindipsocus* Smithers & Thornton. Tribe Kaindipsocini discussed: Lienhard, 2008d.

*Stylatopsocini* Li Fasheng, 2002a. Not analysed, but tribal status recognized: Yoshizawa & Johnson, 2008.

*Amphigerontia* spec. USA (III): Yoshizawa & Johnson, 2008 (phylog.).

*Amphigerontia bifasciata* (Latreille). Czech Republic (I): Holusa, 2007c, 2008. Luxembourg (I): Schneider & Carrières, 2008. Sweden (I): Svensson & Solbreck, 2008.

*Amphigerontia contaminata* (Stephens). Germany (I): Dorow & Kopelke, 2007. Luxembourg (I): Schneider & Carrières, 2008. Sweden (I): Svensson & Solbreck, 2008.

*Amphigerontia jezoensis* Okamoto. Japan (VIII): Yoshizawa & Johnson, 2008 (phylog.).

*Blaste* spec. USA (III): Yoshizawa & Johnson, 2008 (phylog.).

*Blaste arabica* New. Saudi Arabia (I): Lienhard, 2008a.

*Blaste medleri* New. UAE (I): Lienhard, 2008a (fig.).

*Blaste obtusa* (Hagen) *sensu* Okamoto (1906, 1907) and Tomita & Haga (1991) is *Neoblaste cubitalis* (Enderlein): Yoshizawa, 2008b: 32-33.

*Blaste quadrimaculata* (Latreille). Czech Republic (I): Holusa, 2007b. Great Britain (I): Saville *et al.*, 2008.

*Blaste quieta* (Hagen). USA (III): Yoshizawa & Johnson, 2008 (phylog.).

*Blastopsocus* spec. USA (III): Yoshizawa & Johnson, 2008 (phylog.).

*Blastopsocus lithinus* (Chapman). USA (III): Yoshizawa & Johnson, 2008 (phylog.).

*Kaindipsocus splendidus*\* Lienhard, 2008d: 501. Vietnam (VIII).

*Kaindipsocus* spec. Yoshizawa & Johnson, 2008 (phylog.).

*Neoblaste cubitalis* (Enderlein). Revised synonymy: Yoshizawa, 2008b: 33. Japan (VIII).

*Neoblaste tateokana* (Okamoto). Redescription: Yoshizawa, 2008b: 30 (**from Psocidus s. l.**). Japan (VIII).

*Pentablaste quinquedentata* (Li Fasheng & Yang Chikun). China (VIII): Zhan Meiling, 2006.

### Psocinae

*Atrichodenotecnini* Yoshizawa & Johnson, 2008: 558. Type genus: *Atrichadenotecnum* Yoshizawa.

*Cycetini*. Not analysed, but tribal status recognized: Yoshizawa & Johnson, 2008.

*Metylophorini*. Revised definition of tribe: Yoshizawa & Johnson, 2008.

*Psocini*. Revised definition of tribe: Yoshizawa & Johnson, 2008.

*Ptyctini* Mockford, 1993 (= *Oreopsocini* Li Fasheng, 2002a; = *Trichadenotecnini* Li Fasheng, 2002a) redefined and discussed: Yoshizawa & Johnson, 2008.

*Sigmatoneurini* Li Fasheng, 2002a. Tribal status confirmed: Yoshizawa & Johnson, 2008.

*Thrysophorini* Kolbe, 1882 (= *Cerastipsocini* Roesler, 1940) redefined and treated as a tribe of Psocinae: Yoshizawa & Johnson, 2008.

*Arabopsocus*\*\* Lienhard, 2008a: 125. Gender: M. Type species: *Arabopsocus spiniproctus* Lienhard.

*Arabopsocus spiniproctus*\* Lienhard, 2008a: 126. UAE (I).

*Atlantopsocus adustus* (Hagen). Great Britain (I): Saville *et al.*, 2008. Madeira (II): Golub & Nunes, 2007 (cytol., anat.); Baz, 2008.

*Atlantopsocus personatus* (Hagen). Italy (I): Yoshizawa & Johnson, 2008 (phylog.). Madeira (II): Baz, 2008.

*Atlantopsocus semicircularis* Baz. Madeira (II): Baz, 2008.

*Atrichadenotecnum* spec. Malaysia (VIII): Yoshizawa & Johnson, 2008 (phylog.).

*Atrichadenotecnum quadripunctatum* Yoshizawa. Japan (VIII): Yoshizawa & Johnson, 2008 (phylog.). Phylog.: Yoshizawa *et al.*, 2008 (out-group).

*Atrichadenotecnum tayal* Yoshizawa. China (VIII): Zhan Meiling, 2006.

*Atropsocus atratus* (Aaron). USA (III): Yoshizawa & Johnson, 2008 (phylog.).

*Camelopsocus monticolus* Mockford. USA (III): Yoshizawa & Johnson, 2008 (phylog.).

*Cerastipsocus trifasciatus* (Provancher). USA (III): Yoshizawa & Johnson, 2008 (phylog.).

*Clematoscenea* spec. Malaysia (VIII): Yoshizawa & Johnson, 2008 (phylog.).

*Copostigma* spec. Fiji (X): Yoshizawa & Johnson, 2008 (phylog.).

*Cyclotus guizhouensis* (Li Fasheng & Yang Chikun). China (VIII): Zhan Meiling, 2006.

*Hyalopsocus* spec. USA (III): Yoshizawa & Johnson, 2008 (phylog.).

*Hyalopsocus floridanus* (Banks). USA (III): Yoshizawa & Johnson, 2008 (phylog.).

*Hyalopsocus morio* (Latreille). Switzerland (I): Yoshizawa & Johnson, 2008 (phylog.).

*Indiopsocus* spec. USA (III): Yoshizawa & Johnson, 2008 (phylog.).

*Indiopsocus bisignatus* (Banks). USA (III): Yoshizawa & Johnson, 2008 (phylog.).

*Loensia conspersa* (Banks). USA (III): Yoshizawa & Johnson, 2008 (phylog.).

- Loensia fasciata* (Fabricius). Czech Republic (I): Holusa, 2007b. Germany (I): Dorow & Kopalke, 2007. Great Britain (I): Alexander, 2007e. Luxembourg (I): Schneider & Carrières, 2008. Sweden (I): Svensson & Solbreck, 2008.
- Loensia moesta* (Hagen). USA (III): Yoshizawa & Johnson, 2008 (phylog.).
- Loensia pearmani* Kimmings. Sweden (I): Svensson & Solbreck, 2008.
- Loensia variegata* (Latreille). Czech Republic (I): Holusa, 2007b. France (I): Yoshizawa & Johnson, 2008 (phylog.). Germany (I): Dorow & Kopalke, 2007. Luxembourg (I): Schneider & Carrières, 2008. Phylog.: Yoshizawa *et al.*, 2008 (out-group).
- Longivalvus nubilus* (Enderlein). Japan (VIII): Yoshizawa & Johnson, 2008 (phylog.).
- Metylophorus marmoreus* Li Fasheng & Yang Chikun. China (VIII): Zhan Meiling, 2006.
- Metylophorus nebulosus* (Stephens). Czech Republic (I): Holusa, 2007b, 2007c, 2008. Germany (I): Dorow & Kopalke, 2007. Luxembourg (I): Schneider & Carrières, 2008.
- Metylophorus novaescotiae* (Walker). USA (III): Yoshizawa & Johnson, 2008 (phylog.).
- Metylophorus purus* (Walsh). USA (III): Yoshizawa & Johnson, 2008 (phylog.).
- Oreopsocus buholzeri* Lienhard. Israel (I): Yoshizawa & Johnson, 2008 (phylog.). NB: According to Yoshizawa (*in litt.*) the material examined originates from Israel and not from Switzerland, as erroneously indicated in Table 2.
- Propsocerastis jiangkouensis* Li Fasheng & Yang Chikun. China (VIII): Zhan Meiling, 2006.
- Psocidus* Pearman (s. str.). Revised definition: Yoshizawa, 2008b: 29.
- Psocidus* (s. str.) spec. Japan (VIII): Yoshizawa & Johnson, 2008 (phylog.).
- Psocidus* (s. str.) *pellucidus* (Okamoto). Redescription: Yoshizawa, 2008b: 27 (from *Psocidus* s. l.). Japan (VIII).
- Psocidus* (s. str.) *validus* Thornton. Yoshizawa, 2008b: 29 [disc., could be a junior synonym of *P. pellucidus* (Okamoto)].
- Psococerastis* spec. New Guinea (VIII): Yoshizawa & Johnson, 2008 (phylog.).
- Psococerastis albimaculata* Li Fasheng & Yang Chikun. China (VIII): Zhan Meiling, 2006.
- Psococerastis gibbosa* (Sulzer). Czech Republic (I): Holusa, 2007b, 2007c, 2008. Germany (I): Dorow & Kopalke, 2007. Luxembourg (I): Schneider & Carrières, 2008.
- Psocomesites* spec. Chile (V): Yoshizawa & Johnson, 2008 (phylog.).
- Psocus bipunctatus* (Linnaeus). Luxembourg (I): Schneider & Carrières, 2008. Japan (VIII): Yoshizawa & Johnson, 2008 (phylog.).
- Psocus crosbyi* Chapman. USA (III): Yoshizawa & Johnson, 2008 (phylog.).
- Ptycta* spec. Hawaii (X): Yoshizawa & Johnson, 2008 (phylog.).
- Ptycta buettikeri* Badonnel. Saudi Arabia, Yemen (I): Lienhard, 2008a.
- Ptycta johnsoni* Bess & Yoshizawa, 2007. Japan (VIII): Yoshizawa & Johnson, 2008 (phylog.).
- Sigmatoneura (Sigmatoneura) clara* Li Fasheng & Yang Chikun. China (VIII): Zhan Meiling, 2006.
- Sigmatoneura kakisyayap* Yoshizawa & Lienhard, *in:* Yoshizawa, Lienhard & Idris, 2005. Malaysia (VIII): Yoshizawa & Johnson, 2008 (phylog., as *Podopterocus* spec.).
- Sigmatoneura kolbei* (Enderlein). Japan (VIII): Yoshizawa & Johnson, 2008 (phylog.).
- Steleops* spec. USA (III): Yoshizawa & Johnson, 2008 (phylog.).
- Steleops elegans* (Banks). USA (III): Yoshizawa & Johnson, 2008 (phylog.).
- Symbiopsocus* Li Fasheng. Revised genus definition: Yoshizawa, 2008b: 27.
- Symbiopsocus formosanus* (Okamoto). Description of male terminalia: Yoshizawa, 2008b: 24 (from *Psocidus*). Taiwan (VIII).
- Symbiopsocus hastatus* Mockford, 2003c. Japan (VIII): Yoshizawa & Johnson, 2008 (phylog.). Phylog.: Yoshizawa *et al.*, 2008 (out-group).
- Thrysophorus* spec. Costa Rica (IV): Yoshizawa & Johnson, 2008 (phylog.).
- Trichadenotecnum* Enderlein. Phylogeny, biogeography, morphology of male genitalia, diagnoses of several species groups, keys to New World species groups and species: Yoshizawa *et al.*, 2008.
- Trichadenotecnum* spec. USA (III): Yoshizawa & Johnson, 2008 (phylog.). Mexico (IV): Yoshizawa *et al.*, 2008 (unidentified specimens of *desolatum* group).
- Trichadenotecnum aconcinnum*\* Yoshizawa, Garcia Aldrete & Mockford, 2008: 702. Mexico (IV).
- Trichadenotecnum acutolingum*\* Yoshizawa, Garcia Aldrete & Mockford, 2008: 665. Mexico (IV).
- Trichadenotecnum acutum*\* Yoshizawa, Garcia Aldrete & Mockford, 2008: 696. Mexico (IV).
- Trichadenotecnum alexanderae* Sommerman. Review of distribution: Yoshizawa *et al.*, 2008.
- Trichadenotecnum barrerae*\* Yoshizawa, Garcia Aldrete & Mockford, 2008: 705. Mexico (IV).
- Trichadenotecnum bos*\* Yoshizawa, Garcia Aldrete & Mockford, 2008: 660. Peru (V).
- Trichadenotecnum brevicornutum*\* Yoshizawa, Garcia Aldrete & Mockford, 2008: 692. Mexico (IV).
- Trichadenotecnum carinatum*\* Yoshizawa, Garcia Aldrete & Mockford, 2008: 670. Mexico (IV).
- Trichadenotecnum castum* Bez. Review of distribution: Yoshizawa *et al.*, 2008 (disc.).
- Trichadenotecnum cerrosillae*\* Yoshizawa, Garcia Aldrete & Mockford, 2008: 684. Mexico (IV).
- Trichadenotecnum chiapense*\* Yoshizawa, Garcia Aldrete & Mockford, 2008: 680. Mexico, Belize (IV).
- Trichadenotecnum cintalapense*\* Yoshizawa, Garcia Aldrete & Mockford, 2008: 713. Mexico (IV).
- Trichadenotecnum circularoides* Badonnel. Madeira (II): Baz, 2008. Mexico (IV): Yoshizawa *et al.*, 2008. Australia (IX): Yoshizawa & Johnson, 2008 (phylog.).
- Trichadenotecnum concinnum*\* Yoshizawa, Garcia Aldrete & Mockford, 2008: 694. Mexico (IV).
- Trichadenotecnum decui* Badonnel. Venezuela (V): Yoshizawa *et al.*, 2008 (disc.).
- Trichadenotecnum denticulatum*\* Yoshizawa, Garcia Aldrete & Mockford, 2008: 706. Guatemala, Honduras (IV).

*Trichadenotecnum desolatum* (Chapman). USA (III): Yoshizawa & Johnson, 2008 (phylog.); Yoshizawa *et al.*, 2008 (disc., figs).

*Trichadenotecnum ericium*\* Yoshizawa, Garcia Aldrete & Mockford, 2008: 690. Mexico (IV).

*Trichadenotecnum erwini*\* Yoshizawa, Garcia Aldrete & Mockford, 2008: 676. Peru (V).

*Trichadenotecnum gonzalezi* (Williner). Description of male terminalia: Yoshizawa *et al.*, 2008: 656. Ecuador, Peru (V).

*Trichadenotecnum guttatum*\* Yoshizawa, Garcia Aldrete & Mockford, 2008: 702. Mexico (IV).

*Trichadenotecnum innuptum* Bez. Review of distribution: Yoshizawa *et al.*, 2008.

*Trichadenotecnum latipenne*\* Yoshizawa, Garcia Aldrete & Mockford, 2008: 675. Mexico (IV).

*Trichadenotecnum longilingum*\* Yoshizawa, Garcia Aldrete & Mockford, 2008: 669. Mexico (IV).

*Trichadenotecnum maculatum*\* Yoshizawa, Garcia Aldrete & Mockford, 2008: 687. Mexico (IV).

*Trichadenotecnum magnolingum*\* Yoshizawa, Garcia Aldrete & Mockford, 2008: 666. Mexico (IV).

*Trichadenotecnum majus* (Kolbe). Czech Republic (I): Holusa, 2007b, 2007c, 2008. Luxembourg (I): Schneider & Carrières, 2008. Sweden (I): Svensson & Solbreck, 2008. Review of distribution: Yoshizawa *et al.*, 2008.

*Trichadenotecnum merum* Bez. Review of distribution: Yoshizawa *et al.*, 2008.

*Trichadenotecnum miffy*\* Yoshizawa, Garcia Aldrete & Mockford, 2008: 707. Peru (V).

*Trichadenotecnum neoleonense*\* Yoshizawa, Garcia Aldrete & Mockford, 2008: 689. Mexico (IV).

*Trichadenotecnum nicaraguense*\* Yoshizawa, Garcia Aldrete & Mockford, 2008: 697. Nicaragua (IV).

*Trichadenotecnum oaxacense*\* Yoshizawa, Garcia Aldrete & Mockford, 2008: 660. Mexico (IV).

*Trichadenotecnum obrienorum*\* Yoshizawa, Garcia Aldrete & Mockford, 2008: 710. Honduras (IV).

*Trichadenotecnum pardus* Badonnel. Yoshizawa *et al.*, 2008: Dominican Republic, Mexico, Panama (IV); Venezuela (V).

*Trichadenotecnum peruense*\* Yoshizawa, Garcia Aldrete & Mockford, 2008: 656. Peru (V).

*Trichadenotecnum pichincha* New & Thornton. Ecuador (V): Yoshizawa *et al.*, 2008 (disc., probably not belonging to the genus *Trichadenotecnum*).

*Trichadenotecnum quaesitellum*\* Yoshizawa, Garcia Aldrete & Mockford, 2008: 682. Mexico (IV).

*Trichadenotecnum quaesitum* (Chapman). Canada, USA (III): Yoshizawa *et al.*, 2008 (disc.). USA (III): Yoshizawa & Johnson, 2008 (phylog.).

*Trichadenotecnum roesleri* New. Brazil (V): Yoshizawa *et al.*, 2008 (disc.).

*Trichadenotecnum sexpunctatum* (Linnaeus). Germany (I): Dorow & Kopalke, 2007. Luxembourg (I): Schneider & Carrières, 2008.

*Trichadenotecnum simile* Mockford. Brazil (V): Yoshizawa *et al.*, 2008 (disc.).

*Trichadenotecnum sinuatum* New. Brazil (V): Yoshizawa *et al.*, 2008 (disc.).

*Trichadenotecnum slossonae* (Banks). USA (III), Mexico (IV): Yoshizawa *et al.*, 2008 (disc.).

*Trichadenotecnum sparsum*\* Yoshizawa, Garcia Aldrete & Mockford, 2008: 673. Mexico (IV).

*Trichadenotecnum sylvaticum* Turner. Jamaica (IV): Yoshizawa *et al.*, 2008 (disc., probably not belonging to the genus *Trichadenotecnum*).

*Trichadenotecnum tambopatense*\* Yoshizawa, Garcia Aldrete & Mockford, 2008: 657. Peru (V).

*Trichadenotecnum tuitense*\* Yoshizawa, Garcia Aldrete & Mockford, 2008: 672. Mexico (IV).

#### Thrysophorinae

See Psocinae: Thrysophorini.

#### Psilosocidae

*Psilosocus malayanus* New & Lee. Malaysia (VIII): Yoshizawa & Johnson, 2008 (phylog.).

#### Myopsocidae

*Lichenomima* spec. Japan (VIII): Yoshizawa & Johnson, 2008 (phylog.).

*Myopsocus* spec. USA (III): Yoshizawa & Johnson, 2008 (phylog.).

*Myopsocus eatoni* McLachlan. Madeira (II): Baz, 2008.

#### 4. Additions to the Bibliography

NOTE: Complete bibliographical references to publications cited in the present paper, which are not listed here, can be found in the World Bibliography (Lienhard & Smithers, 2002: 493-664) or in Parts 1 to 7 of the "Additions" (Psocid News, no. 4-10).

Remarks: 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/mhng/psocoptera/page/ps-bibli.htm>

- Adis, J. 2007. See Battirolo, L. D. *et al.* 2007.
- Afzelius, B. A. 2007. See Paccagnini, E. *et al.* 2007.
- Ahadiyat, A. & Zangeneh, A. M. 2007. First report of *Ectopsocus briggsi* and *Trichopsocus dalii* (Psocoptera: Psocomorpha: Ectopsocidae and Trichopsocidae) from Iran. *Florida Entomologist* 90(4): 790-791.
- Ahmedani, M. S., Khaliq, A., Aslam, M. & Sayyed, A. H. 2007. A new approach of split dosage for application of aluminium phosphide against the PH3 resistant psocids in stored grain. *Journal of the Chemical Society of Pakistan* 29(6): 538-544. (**Only abstract seen**).
- Alexander, K. N. A. 2007d. *Atlantopsocus adustus* (Hagen) (Psocidae) new to Britain from East Cornwall – a correction. *Entomologist's Record* 119: 234.
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- Alexander, K. N. A. 2008b. Early records for *Peripsocus milleri* (Tillyard) (Psocoptera: Peripsocidae) – a correction. *Entomologist's Record* 120: 191.
- Alexander, K. N. A. 2008c. See Saville, R. E. *et al.* 2008.
- Aslam, M. 2007. See Ahmedani, M. S. *et al.* 2007.
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## 5. Corrections to Lienhard & Smithers, 2002

Page 129: *Triplocania lucida* (not *lurida*).

Page 536: Evans, H. A. 1979 (not 1978).... *Entomologist's Monthly Magazine* 114 (1978): 119-121, 1 fig.

## EDITORIAL

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