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# Psocid News

## The Psocidologists' Newsletter

No. 7 (Feb. 28, 2005)



*Lichenomima* sp. (Ryukyus, Japan)

### ADDITIONS AND CORRECTIONS (PART 4) TO LIENHARD & SMITHERS, 2002: "PSOCOPTERA (INSECTA) - WORLD CATALOGUE AND BIBLIOGRAPHY"

Charles Lienhard (Geneva Natural History Museum, Switzerland)

#### 1. Introduction

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

In general, these "Additions" present the information in the style of the 2002-book, according to the criteria mentioned there (pp. ix-xli) and using the same abbreviations (cf. pp. xl-xli). Families (and higher categories, if mentioned) are listed according to Table 1 of the 2002-book (for Amphipsocidae see Yoshizawa, 2001b; cf. Part 1 of the "Additions" in Psocid News No. 4). For each family, 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 yet mentioned in the Catalogue, but already 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) or in Parts 1 to 3 of the "Additions" (Psocid News, no. 4, 5, 6).

#### 2. List of countries mentioned in the "Additions and Corrections to the World Catalogue" (Parts 1-4)

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 4 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 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 (= present issue)

(I) Austria (Parts 1, 3, 4), Belgium (Part 3), Czech Republic (Part 1, 4), Finland (Part 1), France (Parts 1, 3, 4), Germany (Parts 1, 3, 4), Great Britain (Parts 1, 3, 4), Hungary (Parts 1, 3), Israel (Part 4), Italy (Parts 1, 3), Luxembourg (Parts 1, 3), Netherlands (Part 4), Norway (Part 4), Slovakia (Part 1), Spain (Part 1), Switzerland (Parts 1, 3, 4), Yemen (Part 4)

(II) Canary Islands (Parts 1, 4), Selvagens Islands (Part 1)

(III) Canada (Part 4), USA (Parts 1, 4)

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

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

(VI) Ghana (Part 4), Guinea (Part 1), Kenya (Part 4), Malawi (Part 3), Namibia (Part 1), South Africa (Part 3), Tanzania (Parts 3, 4)

(VIII) China (Parts 2, 3), India (Part 3), Indonesia (Parts 1, 3), Japan (Parts 1, 4), Kuril Islands (Part 4), Malaysia (Part 1), New Guinea (Part 3), Philippines (Part 3), Russia (Part 1), Sri Lanka (Part 4), Taiwan (Part 1), Thailand (Parts 1, 4), USSR (Part 4), Vietnam (Part 4)

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

(A) Amber and Copal (Parts 1, 3)

### 3. Additions to the Catalogue

#### Psocoptera

Broza & Izhaki, 1997 (ecol., psocids in burned forests); Cao *et al.*, 2003 (pest, survey of psocid species in stored grain in China); Johnson, 2003 (phylogeny of Psocodea, based on molecular data: Psocoptera paraphyletic, Phthiraptera probably also not monophyletic); Johnson *et al.*, 2004 (phylogeny of Psocodea, based on molecular data: Psocoptera paraphyletic, Phthiraptera polyphyletic); Endang Sri Kentjowati & New, 2004 (species richness in Sumatra, ecological distribution, conservation); Lienhard, 2004a (additions and corrections to the World Catalogue), 2004c (class.), 2004d (worldwide country checklists of Psocoptera species), 2004e (subject bibliography for Psocoptera); Perrichot, 2004 (Psocoptera mentioned from Early Cretaceous amber, France, litter fauna); Silva *et al.*, 2004 (Psocoptera and Phthiraptera, phylogeny, anatomy).

#### Lepidopsocidae

*Echmepteryx alpha* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2004b.

*Echmepteryx falco* (Badonnel). Mexico (IV): Garcia Aldrete, 2004b.

*Echmepteryx hageni* (Packard). Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences). Parasit.: Schneider, 2004 (egg parasitoid *Dicopomorpha echmepterygis* mentioned from the literature).

*Echmepteryx intermedia* Mockford. Mexico (IV): Garcia Aldrete, 2004b.

*Echmepteryx madagascariensis* (Kolbe). Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences; species name misspelled *madagascarensis* in the electronic appendix).

*Echmepteryx yanezi* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2004b.

*Lepium* spec. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Neolepalepis leticiae* (Garcia Aldrete). Mexico (IV): Garcia Aldrete, 2004b.

*Neolepalepis occidentalis* (Mockford). Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Pteroxanium kelloggi* (Ribaga). Great Britain (I): Saville, 2004. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Thylacella cubana* (Banks). Mexico (IV): Garcia Aldrete, 2004b.

#### Trogiidae

*Cerobasis guestfalica* (Kolbe). Great Britain (I): Saville, 2004. Netherlands (I): Noordijk & Berg, 2002. Norway (I): Thunes *et al.*, 2004. Biol.: Koivisto & Braig, 2003 (parthenogenesis, *Wolbachia* bacterium).

*Cerobasis socotrae* Lienhard. Yemen: Socotra Island (I): Wranik, 2003 (misspelled *C. socotra*; only data from the literature mentioned).

*Cerobasis treptica* Thornton & Woo. Mexico (IV): Garcia Aldrete, 2004b (as *C. ca treptica*).

*Lepinotus* spec. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Lepinotus inquilinus* Heyden. Switzerland (I): Mulhauser, 1997. Australia (IX): Rees, 2003 (associated with stored products).

*Lepinotus patruelis* Pearman. Czech Republic (I): Kucerova & Horak, 2004 (pest). Norway (I): Thunes *et al.*, 2004.  
*Lepinotus reticulatus* Enderlein. Czech Republic (I): Kucerova & Horak, 2004 (pest). Canary Islands (II): Domingo-Quero *et al.*, 2003. Australia (IX): Rees, 2003 (associated with stored products). Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).  
*Trogium pulsatorium* (Linnaeus). Biol.: Schneider, 2004 (in bee nests). Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

#### **Psoquillidae**

*Psoquilla marginepunctata* Hagen. Mexico (IV): Garcia Aldrete, 2004b.  
*Rhyopsocidus*\*\* Smithers & Mockford, 2004: 314. Gender: M. Type species: *Trogium nigrum* Smithers.  
*Rhyopsocidus niger* (Smithers). Smithers & Mockford, 2004: 314 (**from** *Trogium*). Lord Howe Island (IX).  
*Rhyopsocus mexicanus* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2004b.  
*Rhyopsocus texanus* (Banks). Mexico (IV): Garcia Aldrete, 2004b.

#### **Psyllipsocidae**

*Dorypteryx domestica* (Smithers). Norway (I): Thunes *et al.*, 2004. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).  
*Dorypteryx longipennis* Smithers. Australia (IX): Rees, 2003 (associated with stored products).  
*Pseudodorypteryx mexicana* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2004b.  
*Psocathropos lachlani* Ribaga. Mexico (IV): Garcia Aldrete, 2004b (as *P. microps*). Australia (IX): Rees, 2003 (associated with stored products).  
*Psyllipsocus chamela* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2004b.  
*Psyllipsocus garciamolinai* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2004b.  
*Psyllipsocus oculatus* Gurney. Mexico (IV): Garcia Aldrete, 2004b. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).  
*Psyllipsocus ramburii* Selys-Longchamps. Canary Islands (II): Domingo-Quero *et al.*, 2003.

#### **Prionoglarididae**

Two subfamilies recognized (Prionoglaridinae Badonnel, Speleketorinae Smithers), key to genera: Lienhard, 2004b.  
*Prionoglaris* spec. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).  
*Prionoglaris stygia* Enderlein. Morph.: Lienhard, 2004b (figs).  
*Siamoglaris*\*\* Lienhard, 2004b: 866. Gender: F. Type species: *Siamoglaris zebrina* Lienhard.  
*Siamoglaris zebrina*\* Lienhard: 2004b: 866. Thailand (VIII).

#### **Electrentomidae**

*Epitroctes* spec. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

#### **Compsocidae**

*Compsocus elegans* Banks. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).  
*Electrentomopsis variegata* Mockford. Mexico (IV): Garcia Aldrete, 2004b.

#### **Troctopsocidae**

*Selenopsocus* spec. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

#### **Musapsocidae**

*Musapsocus* spec. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

#### **Amphientomidae**

Genus spec. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).  
*Cymatopsocus* spec. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).  
*Lithoseopsis cervantesi*\* Garcia Aldrete, 2004b: 108. Mexico (IV).  
*Lithoseopsis chamelensis*\* Garcia Aldrete, 2004b: 108. Mexico (IV).  
*Lithoseopsis insularis*\* Garcia Aldrete, 2004b: 109. Mexico (IV).  
*Lithoseopsis tuitensis*\* Garcia Aldrete, 2004b: 112. Mexico (IV).  
*Nephax fortunatus* (Navas). Canary Islands (II): Domingo-Quero *et al.*, 2003.  
*Seopsis* spec. According to Garcia Aldrete (*in litt.*) references to *Seopsis* spec. from Mexico mentioned by Garcia Aldrete (1986a, 1988g) (cf. Lienhard & Smithers, 2002: 64) refer to the *Lithoseopsis* species described by Garcia Aldrete, 2004b (see above).  
*Stimulopalpus japonicus* Enderlein. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

#### **Liposcelididae**

*Belaphopsocus badonneli* New. Mexico (IV): Garcia Aldrete, 2004b.  
*Belaphotroctes ghesquierei* Badonnel. Mexico (IV): Garcia Aldrete, 2004b.

- Belaphotroctes hermosus* Mockford. Mexico (IV): Garcia Aldrete, 2004b.
- Embidopsocus enderleini* (Ribaga). Netherlands (I): Noordijk & Berg, 2002.
- Embidopsocus laticeps* Mockford. Mexico (IV): Garcia Aldrete, 2004b.
- Liposcelis* spec. (see also under *Liposcelis divinatoria*). Germany (I): Dorow *et al.*, 2004. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).
- Liposcelis bostrychophila* Badonnel. Israel (I): Broza, 2000 (ecol.). Switzerland (I): Mulhauser, 1997. Mexico (IV): Garcia Aldrete, 2004b. Australia (IX): Rees, 2003 (pest, control). Biol.: Koivisto & Braig, 2003 (parthenogenesis, *Wolbachia* bacterium). Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences). Pest: Ding Wei *et al.*, 2002 (ethol., control); Daghli *et al.*, 2003 (control); Nayak *et al.*, 2003b, 2003d (control). Phys.: Cheng Weixia *et al.*, 2002; Wang Jinjun *et al.*, 2002; Wang Jinjun & Zhao Zhimo, 2003; Howard & Lord, 2003 (cuticular lipids).
- Liposcelis brunnea* Motschulsky. Australia (IX): Rees, 2003 (pest). Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences). Pest: Kucerova *et al.*, 2003.
- Liposcelis corrodens* (Heymons). Czech Republic (I): Kucerova & Horak, 2004 (pest). Germany (I): Dorow *et al.*, 2004. Australia (IX): Rees, 2003 (pest).
- Liposcelis decolor* (Pearman). Czech Republic (I): Kucerova & Horak, 2004 (pest). Israel (I): Broza, 2000 (ecol.). Australia (IX): Nayak *et al.*, 2002d (pest, control); Rees, 2003 (pest, control). Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences). Pest: Daghli *et al.*, 2003 (control); Nayak *et al.*, 2003c (control).
- Liposcelis divinatoria* (Müller). Switzerland (I): Mulhauser, 1997. Anat.: Chapman, 2003.
- Liposcelis entomophila* (Enderlein). Mexico (IV): Garcia Aldrete, 2004b. Australia (IX): Rees, 2003 (pest, control). Pest: Cao *et al.*, 2003 (control); Daghli *et al.*, 2003 (control); Nayak *et al.*, 2003c (control). Phys.: Cheng Weixia *et al.*, 2002.
- Liposcelis formicaria* (Hagen). Biol.: Schneider, 2004 (in ant nests).
- Liposcelis mira* Badonnel. Mexico (IV): Garcia Aldrete, 2004b.
- Liposcelis myrmecophila* Broadhead. Biol.: Schneider, 2004 (in ant nests).
- Liposcelis pacifica* Badonnel. Mexico (IV): Garcia Aldrete, 2004b.
- Liposcelis paeta* Pearman. Australia (IX): Rees, 2003 (pest). Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences). Pest: Daghli *et al.*, 2003 (control); Kucerova *et al.*, 2003.
- Liposcelis paetula* Broadhead. Canary Islands (II): Domingo-Quero *et al.*, 2003.
- Liposcelis pubescens* Broadhead. Australia (IX): Rees, 2003 (pest).
- Liposcelis rufa* Broadhead. Australia (IX): Rees, 2003 (pest).
- Liposcelis silvarum* (Kolbe). Germany (I): Dorow *et al.*, 2004. Norway (I): Thunes *et al.*, 2004.

#### Pachytroctidae

- Nanopsocus oceanicus* Pearman. Mexico (IV): Garcia Aldrete, 2004b. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).
- Nymphotroctes denisi* Badonnel. Canary Islands (II): Domingo-Quero *et al.*, 2003.
- Pachytroctes maculosus* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2004b. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).
- Pachytroctes pacificus* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2004b.
- Peritroctes* spec. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).
- Tapinella* spec. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).
- Tapinella chamelana* Badonnel. Mexico (IV): Garcia Aldrete, 2004b.
- Tapinella maculata* Mockford & Gurney. Mexico (IV): Garcia Aldrete, 2004b.
- Tapinella picta* (Badonnel). Mexico (IV): Garcia Aldrete, 2004b.

#### Sphaeropsocidae

- Badonnelia titei* Pearman. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

#### Epipsocidae

- Bertkauiia* Kolbe. Complements to diagnosis and key to species (females), remarks on abnormal wing venation in males: Mockford, 2003c.
- Bertkauiia crosbyana* Chapman. Morph.: Mockford, 2003c: 196. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).
- Bertkauiia lepicidinaria* Chapman. Morph.: Mockford, 2003c: 196.
- Bertkauiia loebli* (Badonnel). Morph.: Mockford, 2003c: 196.
- Bertkauiia lucifuga* (Rambur). Germany (I): Dorow *et al.*, 2004. Morph.: Mockford, 2003c: 196.
- Bertkauiia marusiki*\* Mockford, 2003c: 196. Kuril Islands (VIII).
- Bertkauiia minuscula*\* Mockford, 2003c: 195. Kuril Islands (VIII).
- Epipsocus* spec. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).
- Epipsocus bullocki*\* Garcia Aldrete, 2004b: 112. Mexico, Belize, Guatemala, Nicaragua (IV).
- Goja* spec. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

## Neurostigmatidae

*Neurostigma dispositum* Roesler. Mexico (IV): Garcia Aldrete, 2004b.

## Cladiopsocidae

*Cladiopsocus garciai* Eertmoed. Mexico (IV): Garcia Aldrete, 2004b.

## Ptiloneuridae

*Loneura lienhardi*\* Garcia Aldrete, 2004a: 144. Venezuela (V).

*Loneura maesi*\* Garcia Aldrete, 2004a: 146. Nicaragua (IV).

*Loneura ocotensis* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2004b.

*Ptiloneuropsis* Roesler. Revised diagnosis: Garcia Aldrete, 2004c: 146.

*Ptiloneuropsis immaculata* Roesler. Further description, neotype designation: Garcia Aldrete, 2004c: 146. Brazil (V).

## Asiopsocidae

*Asiopsocus* spec. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Asiopsocus vanharteni* Lienhard. Yemen: Socotra Island (I): Wranik, 2003 (only data from the literature mentioned).

*Notiopsocus aldretei* Badonnel. Mexico (IV): Garcia Aldrete, 2004b.

## Caeciliusidae

*Caecilius fuscopterus* (Latreille). France (I): Thomas, 2003. Kuril Islands (VIII): Mockford, 2003c (doubtful record).  
Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Caecilius yoshizawai*\* Mockford, 2003c: 201. Kuril Islands (VIII).

*Dypsocus coleopratus* (Hagen). Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Enderleinella kurilensis*\* Mockford, 2003c: 210. Kuril Islands (VIII).

*Enderleinella obsoleta* (Stephens). Great Britain (I): Saville, 2004. Norway (I): Thunes *et al.*, 2004.

*Epicaecilius pilipennis* (Lienhard). Great Britain (I): Saville, 2004.

*Fuelleborniella* spec. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Isophanes* spec. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Paracaecilius japonicus* (Enderlein). Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Paracaecilius papillatus*\* Mockford, 2003c: 212. Kuril Islands (VIII).

*Pericaecilius* spec. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Stenocaecilius casarum* (Badonnel). Mexico (IV): Garcia Aldrete, 2004b.

*Valenzuela* Navas. Definition of four subgroups of *albus* species group: Mockford, 2003c: 203.

*Valenzuela* spec. Germany (I): Dorow *et al.*, 2004. Norway (I): Thunes *et al.*, 2004. Mexico (IV): Garcia Aldrete, 2004b.

*Valenzuela atricornis* (McLachlan). Kuril Islands (VIII): Mockford, 2003c (morph.).

*Valenzuela burmeisteri* (Brauer). Germany (I): Dorow *et al.*, 2004. Great Britain (I): Verdcourt, 2000; Saville, 2004. Norway (I): Thunes *et al.*, 2004.

*Valenzuela despaxi* (Badonnel). Transferred to *albus* species group (**from** *confluens* group): Mockford, 2003c: 203. Norway (I): Thunes *et al.*, 2004.

*Valenzuela flavidus* (Stephens). France (I): Thomas, 2003. Germany (I): Dorow *et al.*, 2004. Great Britain (I): Verdcourt, 2000; Saville, 2004. Kuril Islands (VIII): Mockford, 2003c (morph.). Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Valenzuela gynapterus* (Tetens). Germany (I): Dorow *et al.*, 2004. Norway (I): Thunes *et al.*, 2004.

*Valenzuela hyperboreus* (Mockford). Kuril Islands (VIII): Mockford, 2003c (morph.).

*Valenzuela impressus* (Hagen). Redescription, designation of lectotype: Schmidt & New, 2004: 184 (**from** *Elipsocus*) (tentatively allocated to *mueggenburgi*-group). Sri Lanka (VIII).

*Valenzuela kunashirensis*\* Mockford, 2003c: 205 (*albus* group). Kuril Islands (VIII).

*Valenzuela mexcalensis* (Mockford). Mexico (IV): Garcia Aldrete, 2004b.

*Valenzuela oyamai* (Enderlein). Further description: Mockford, 2003c: 206. Kuril Islands (VIII). Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Valenzuela phaeopterellus*\* Mockford, 2003c: 205 (*albus* group). Kuril Islands (VIII).

*Valenzuela quinarius* (Li Fasheng). Probably a junior synonym of *V. oyamai* (Enderlein): Mockford, 2003c: 208 (misspelled qunarius).

*Valenzuela traceus* (Thornton). Probably a junior synonym of *V. oyamai* (Enderlein): Mockford, 2003c: 208.

*Valenzuela velectus* (Thornton). Probably a junior synonym of *V. oyamai* (Enderlein): Mockford, 2003c: 208.

*Xanthocaecilius sommermanae* (Mockford). Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

## Stenopsocidae

*Graphopsocus cruciatus* (Linnaeus). France (I): Thomas, 2003. Germany (I): Dorow *et al.*, 2004. Great Britain (I): Verdcourt, 2000; Saville, 2004. Netherlands (I): Noordijk & Berg, 2002. Norway (I): Thunes *et al.*, 2004. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

### *Stenopsocus* Hagen

*Cubipilis* Li Fasheng, 1993a: 350. **Synonymy:** Mockford, 2003c: 212.

*Stenopsocus aphidiformis* Enderlein. Kuril Islands (VIII): Mockford, 2003c (**from** *Cubipilis*, comb. re-established) (doubtful record) (could be a junior synonym of *S. immaculatus*, cf. Mockford, 2003c: pp. 213 and 226). *Evol.*: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences; species name misspelled *aphidoformis* in electronic appendix).

*Stenopsocus externus* Banks. *Diagn.*: Mockford, 2003c: 218.

*Stenopsocus faungi* Li Fasheng. *Diagn.*: Mockford, 2003c: 218.

*Stenopsocus immaculatus* (Stephens). France (I): Thomas, 2003. Germany (I): Dorow *et al.*, 2004. Great Britain (I): Saville, 2004. Kuril Islands (VIII): Mockford, 2003c (description).

*Stenopsocus lachlani* Kolbe. Norway (I): Thunes *et al.*, 2004.

*Stenopsocus lifashengi*\* Mockford, 2003c: 218. Kuril Islands (VIII).

*Stenopsocus niger* Enderlein. *Redescription*: Mockford, 2003c: 213. Kuril Islands (VIII).

*Stenopsocus nigricellus* Okamoto. *Further description*: Mockford, 2003c: 216. Kuril Islands (VIII). *Evol.*: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Stenopsocus obscurus* Li Fasheng. *Diagn.*: Mockford, 2003c: 218.

*Stenopsocus polyceratus* Li Fasheng, 2002a. *Diagn.*: Mockford, 2003c: 218.

*Stenopsocus stigmaticus* (Imhoff & Labram). Great Britain (I): Saville, 2004.

### Amphipsocidae

Kolbiini. *Revised diagnosis*: Mockford, 2003c: 220.

*Amphipsocus japonicus* (Enderlein). *Further description*: Mockford, 2003c: 218. Kuril Islands (VIII). *Evol.*: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Calocaecilius decipiens* Mockford. *Evol.*: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Dasydemella modesta* (Banks). *Redescription*: Schmidt & New, 2004: 188 (**from** *Elipsocus*). Haiti, Dominican Republic (IV).

*Kolbia quisquiliarum* Bertkau. Austria (I): Thaler, 2003. Germany (I): Dorow *et al.*, 2004.

*Matsumuraiella radiopicta* Enderlein. Kuril Islands (VIII): Mockford, 2003c. *Evol.*: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Polypsocus* spec. Mexico (IV): Garcia Aldrete, 2004b.

*Polypsocus corruptus* (Hagen). Mexico (IV): Garcia Aldrete, 2004b (as *P. ca corruptus*). *Evol.*: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Ptenopsila* spec. *Evol.*: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Siniamphipsocus* Li Fasheng. Tentatively placed in tribe Kolbiini (**from** Amphipsocini), *revised diagnosis*: Mockford, 2003c: 220.

*Siniamphipsocus fusconervosus* (Enderlein). *Redescription*: Mockford, 2003c: 220 (transferred **from** *Kolbia*). Kuril Islands (VIII). *Evol.*: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Taenistigma elongatum* (Hagen). *Evol.*: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences; genus name misspelled *Taniostigma* in electronic appendix).

### Homilopsocidea (infraorder)

Incertae sedis: *Drymopsocus* Smithers. Transferred to "incertae sedis" within the infraorder Homilopsocidea, **from** Elipsocidae: Schmidt & New, 2004: 198 (diagnosis).

*Drymopsocus brunneus* Smithers. Australia (IX): Schmidt & New, 2004.

### Lachesillidae

*Anomopsocus amabilis* (Walsh). *Evol.*: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Eolachesilla* Badonnel. *Discussion of phylogenetic relationships*: Schmidt & New, 2004: 202.

*Eolachesilla chilensis* Badonnel. *Evol.*: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Lachesilla* spec. Germany (I): Dorow *et al.*, 2004. *Evol.*: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Lachesilla aethiopica* (Enderlein). Argentina (V): Garcia Aldrete, 2004d.

*Lachesilla alpejia* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2004b.

*Lachesilla anna* Sommerman. *Evol.*: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Lachesilla bonaerensis*\* Garcia Aldrete, 2004d: 208. Argentina (V).

*Lachesilla corbalanae*\* Garcia Aldrete, 2004d: 208. Argentina (V).

*Lachesilla cuala* Garcia Aldrete. Argentina (V): Garcia Aldrete, 2004d.

*Lachesilla denticulata* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2004b.

*Lachesilla disjuncta* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2004b.

*Lachesilla forcepeta* Chapman. *Evol.*: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Lachesilla fuscipalpis* Badonnel. Mexico (IV): Garcia Aldrete, 2004b.  
*Lachesilla iguazuensis*\* Garcia Aldrete, 2004d: 210. Argentina (V).  
*Lachesilla mariateresae*\* Garcia Aldrete, 2004d: 211. Argentina (V).  
*Lachesilla meinanderi* Lienhard. Canary Islands (II): Domingo-Quero *et al.*, 2003.  
*Lachesilla otomi* Mockford, 2002a. Mexico (IV): Garcia Aldrete, 2004b.  
*Lachesilla pacifica* Chapman. *Evol.*: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).  
*Lachesilla pedicularia* (Linnaeus). Czech Republic (I): Kucerova & Horak, 2004 (pest). Germany (I): Dorow *et al.*, 2004. Great Britain (I): Saville, 2004. *Biol.*: Schneider, 2004 (in nest of *Polistes* wasp).  
*Lachesilla pereirorum*\* Garcia Aldrete, 2004d: 212. Argentina (V).  
*Lachesilla picticepsoides* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2004b.  
*Lachesilla quercus* (Kolbe). Australia (IX): Rees, 2003 (associated with stored products).  
*Lachesilla riegei* Sommerman. Mexico (IV): Garcia Aldrete, 2004b.  
*Lachesilla rugosa* Garcia Aldrete. Argentina (V): Garcia Aldrete, 2004d.  
*Lachesilla ruizabreorum*\* Garcia Aldrete, 2004d: 214. Argentina (V).  
*Lachesilla silvatica* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2004b.  
*Lachesilla tropica* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2004b.  
*Lachesilla yucateca* Mockford, 2002a. Mexico (IV): Garcia Aldrete, 2004b.

#### Ectopsocidae

*Ectopsocopsis cryptomeriae* (Enderlein). *Evol.*: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).  
*Ectopsocus* spec. Mexico (IV): Garcia Aldrete, 2004b. *Evol.*: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).  
*Ectopsocus axillaris* (Smithers). Great Britain (I): Dolling, 2004.  
*Ectopsocus briggsi* McLachlan. Germany (I): Dorow *et al.*, 2004. Great Britain (I): Verdcourt, 2000; Saville, 2004. Netherlands (I): Noordijk & Berg, 2002.  
*Ectopsocus chiapensoides* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2004b.  
*Ectopsocus formosus* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2004b.  
*Ectopsocus maindroni* Badonnel. Mexico (IV): Garcia Aldrete, 2004b.  
*Ectopsocus meridionalis* Ribaga. Canary Islands (II): Domingo-Quero *et al.*, 2003. *Evol.*: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).  
*Ectopsocus mexicanus* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2004b.  
*Ectopsocus obscurus* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2004b.  
*Ectopsocus pacificus* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2004b.  
*Ectopsocus petersi* Smithers. France (I): Thomas, 2003. Great Britain (I): Saville, 2004.  
*Ectopsocus vachoni* Badonnel. Canary Islands (II): Domingo-Quero *et al.*, 2003.  
*Ectopsocus vilhenai* Badonnel. Mexico (IV): Garcia Aldrete, 2004b.

#### Peripsocidae

*Kaestneriella* spec. *Evol.*: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).  
*Kaestneriella similis* Badonnel. Mexico (IV): Garcia Aldrete, 2004b.  
*Peripsocus chamelanus* Badonnel. Mexico (IV): Garcia Aldrete, 2004b.  
*Peripsocus didymus* Roesler. France (I): Thomas, 2003. Great Britain (I): Saville, 2004.  
*Peripsocus dolichophallus* Badonnel. Mexico (IV): Garcia Aldrete, 2004b.  
*Peripsocus hongkongensis* Thornton & Wong. Kuril Islands (VIII): Mockford, 2003c.  
*Peripsocus incertus* Badonnel. Mexico (IV): Garcia Aldrete, 2004b.  
*Peripsocus madidus* (Hagen). *Evol.*: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).  
*Peripsocus milleri* (Tillyard). France (I): Thomas, 2003.  
*Peripsocus parvulus* Kolbe. Germany (I): Dorow *et al.*, 2004.  
*Peripsocus pauliani* Badonnel. Mexico (IV): Garcia Aldrete, 2004b.  
*Peripsocus phaeopterus* (Stephens). Great Britain (I): Saville, 2004. Kuril Islands (VIII): Mockford, 2003c.  
*Peripsocus stagnivagus* Chapman. Mexico (IV): Garcia Aldrete, 2004b.  
*Peripsocus subfasciatus* (Rambur). France (I): Thomas, 2003. Germany (I): Dorow *et al.*, 2004. Great Britain (I): Saville, 2004. *Evol.*: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

#### Calopsocidae

*Calopsocus furcatus* (New). *Evol.*: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences; species name misspelled *furcata* in electronic appendix).

#### Trichopsocidae

*Trichopsocus dali* (McLachlan). Great Britain (I): Saville, 2004. *Evol.*: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).



### Archipsocidae

- Archipsocopsis* spec. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).  
*Archipsocopsis inornata* New. Mexico (IV): Garcia Aldrete, 2004b.  
*Archipsocus* spec. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).  
*Archipsocus cervinoides* Badonnel. Mexico (IV): Garcia Aldrete, 2004b.  
*Archipsocus floridanus* Mockford. Mexico (IV): Garcia Aldrete, 2004b.  
*Archipsocus jaliscoensis* Badonnel. Mexico (IV): Garcia Aldrete, 2004b.  
*Archipsocus recens* Enderlein. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).  
*Pararchipsocus pacificus* Badonnel, Mockford & Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2004b.

### Pseudocaeciliidae

- Allocaecilius sinensis* Lee & Thornton. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).  
*Austropsocus* spec. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences; genus name misspelled *Australopsocus* in electronic appendix).  
*Heterocaecilius fuscus* Yoshizawa. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).  
*Heterocaecilius solocipennis* (Enderlein). Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).  
*Howeanum* Smithers. Genus transferred to Pseudocaeciliidae, **from** Elipsocidae: Schmidt & New, 2004: 159.  
*Lobocaecilius monicus* Lee & Thornton. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).  
*Mepleres suzuki* (Okamoto). Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences; species name misspelled *suzuki* in Fig.1, p. 1774).  
*Ophiodopelma glyptocephalum* Lienhard. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).  
*Phallocaecilius hirsutus* (Thornton). Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).  
*Pseudocaecilius citricola* (Ashmead). Mexico (IV): Garcia Aldrete, 2004b. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).  
*Pseudocaecilius tahitiensis* (Karny). Mexico (IV): Garcia Aldrete, 2004b.  
*Scytopsocus coriaceus* Roesler. Mexico (IV): Garcia Aldrete, 2004b.  
*Trimerocaecilius becheti* Meinander. France (I): Thomas, 2003.  
*Zelandopsocus* spec. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

### Bryopsocidae

- Bryopsocus angulatus* (Smithers). Used as outgroup for phylogenetic analysis of Elipsocidae, very different from the type-species of *Bryopsocus* (could be a genus of its own). Schmidt & New, 2004: 180.

### Philotarsidae

- Aaroniella* spec. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).  
*Aaroniella badonneli* (Danks). France (I): Thomas, 2003. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).  
*Aaroniella chamelana* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2004b.  
*Aaroniella hoffmannae* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2004b.  
*Haplophallus* spec. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).  
*Haplophallus jarevianus* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2004b.  
*Haplophallus subclarus*\* Mockford, 2003c: 222. Kuril Islands (VIII).  
*Haplophallus thorntoni*\* Garcia Aldrete, 2004b: 118. Mexico (IV).  
*Haplophallus wongae* Thornton & New. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).  
*Philotarsopsis ornata* (Thornton & New). Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences; species name misspelled *ornatus* in electronic appendix).  
*Philotarsus* spec. Norway (I): Thunes *et al.*, 2004.  
*Philotarsus kwakiutl* Mockford. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).  
*Philotarsus parviceps* Roesler. Great Britain (I): Saville, 2004.  
*Philotarsus picicornis* (Fabricius). Germany (I): Dorow *et al.*, 2004. Great Britain (I): Saville, 2004.

### Elipsocidae

- Revised diagnosis, phylogenetic analysis, classification, key to genera, biogeography: Schmidt & New, 2004. Two subfamilies defined: Elipsocinae (p. 182) and Propsocinae (p. 183) (see also Table 1 on p. 185); several new genera described within these subfamilies (see below); several genera transferred to other families, see Pseudocaeciliidae (*Howeanum*), Mesopsocidae (*Palmicola*), Sabulopsocidae (*Sabulopsocus*), Lesneiidae

(*Lesneia*); following genera not assigned to the above subfamilies (incertae sedis within Elipsocidae): *Cretapsocus*, *Metelipsocus*, *Nothopsocus*, *Yuntapsocus*; genus *Drymopsocus* placed outside of Elipsocidae, as incertae sedis within infraorder Homilopsocidea.

*Ausysium*\*\* Schmidt & New, 2004: 161. Gender: N. Type species: *Ausysium joyceorum* Schmidt & New.

*Ausysium joyceorum*\* Schmidt & New, 2004: 161. Australia (IX).

*Clinopsocus phragmitellus* (Smithers). Schmidt & New, 2004: 163 (further description of female) (**from** *Nepiomorpha*). Australia (IX).

*Cuneopalpus cyanops* (Rostock). Great Britain (I): Saville, 2004. Norway (I): Thunes *et al.*, 2004.

*Diademadrilus*\*\* Schmidt & New, 2004: 164. Gender: M. Type species: *Spilopsocus annulatus* Smithers.

*Diademadrilus annulatus* (Smithers). Schmidt & New, 2004: 164 (description of female) (**from** *Spilopsocus*). New Zealand (IX).

*Diademadrilus masseyi* (New). Schmidt & New, 2004: 164 (**from** *Spilopsocus*). Australia (IX).

*Elipsocus* spec. Germany (I): Dorow *et al.*, 2004.

*Elipsocus abdominalis* Reuter. Germany (I): Dorow *et al.*, 2004. Great Britain (I): Saville, 2004.

*Elipsocus annulatus* Roesler. Germany (I): Dorow *et al.*, 2004.

*Elipsocus hyalinus* (Stephens). France (I): Thomas, 2003. Germany (I): Dorow *et al.*, 2004. Great Britain (I): Saville, 2004. Norway (I): Thunes *et al.*, 2004.

*Elipsocus kuriliensis* Vishnyakova. Kuril Islands (VIII): Mockford, 2003c (misspelled *kurilensis*).

*Elipsocus lanceleticus* Baz. Canary Islands (II): Domingo-Quero *et al.*, 2003.

*Elipsocus moebiusi* Tetens. Germany (I): Dorow *et al.*, 2004. Great Britain (I): Saville, 2004.

*Elipsocus pumilis* (Hagen). Germany (I): Dorow *et al.*, 2004. Great Britain (I): Saville, 2004.

*Euryphallus*\*\* Schmidt & New, 2004: 165. Gender: M. Type species: *Mesopsocus stigmaticus* Tillyard.

*Euryphallus badonneli* (New & Thornton). Schmidt & New, 2004: 165 (**from** *Nothopsocus*). Chile (V).

*Euryphallus cinqueportsae* (Thornton & New). Schmidt & New, 2004: 165 (**from** *Nothopsocus*). Chile: Juan Fernandez Islands (V).

*Euryphallus cooki* (Thornton & New). Schmidt & New, 2004: 166 (**from** *Nothopsocus*). Chile: Juan Fernandez Islands (V).

*Euryphallus defoei* (Thornton & New). Schmidt & New, 2004: 166 (**from** *Nothopsocus*). Chile: Juan Fernandez Islands (V).

*Euryphallus selkirki* (Thornton & New). Schmidt & New, 2004: 166 (**from** *Nothopsocus*). Chile: Juan Fernandez Islands (V).

*Euryphallus skottsbergi* (Thornton & New). Schmidt & New, 2004: 166 (**from** *Nothopsocus*). Chile: Juan Fernandez Islands (V).

*Euryphallus stigmaticus* (Tillyard). Schmidt & New, 2004: 166 (**from** *Spilopsocus*). New Zealand (IX).

*Gondwanapsocus*\*\* Schmidt & New, 2004: 166. Gender: M. Type species: *Gondwanapsocus australis* Schmidt & New.

*Gondwanapsocus australis*\* Schmidt & New, 2004: 167. Australia (IX).

*Hemineura dispar* Tetens. Austria (I): Thaler, 2003. France (I): Thomas, 2003.

*Hemineura sclerophallina* Lienhard. Considered as an atypical species of *Hemineura* (*Hemineura* could be a paraphyletic genus). Schmidt & New, 2004: 201.

*Kilauella* spec. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Nepiomorpha* spec. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Nepiomorpha brasiliiana* Badonnel. Mexico (IV): Garcia Aldrete, 2004b.

*Onychophallus*\*\* Schmidt & New, 2004: 167. Gender: M. Type species: *Onychophallus diemenensis* Schmidt & New.

*Onychophallus diemenensis*\* Schmidt & New, 2004: 169. Australia (IX).

*Prionotodrilus*\*\* Schmidt & New, 2004: 160. Gender: M. Type species: *Spilopsocus parvus* Smithers & Thornton.

*Prionotodrilus* spec. Australia (IX): Schmidt & New, 2004: 161.

*Prionotodrilus parvus* (Smithers & Thornton). Schmidt & New, 2004: 161 (**from** *Spilopsocus*). Lord Howe Island (IX).

*Prionotodrilus serratus* (Schmidt & Thornton). Schmidt & New, 2004: 161 (**from** *Spilopsocus*). Australia (IX).

*Pseudopsocus rostocki* Kolbe. Germany (I): Dorow *et al.*, 2004.

*Psocophloea*\*\* Schmidt & New, 2004: 171. Gender: F. Type species: *Psocophloea sarahae* Schmidt & New.

*Psocophloea sarahae*\* Schmidt & New, 2004: 172. Australia (IX).

*Reuterella helvimacula* (Enderlein). Germany (I): Dorow *et al.*, 2004. Great Britain (I): Saville, 2004. Norway (I): Thunes *et al.*, 2004. Kuril Islands (VIII): Mockford, 2003c.

*Spilopsocus* Smithers. Revised diagnosis: Schmidt & New, 2004: 172.

*Spilopsocus colliensis* Smithers. Australia (IX): Schmidt & New, 2004.

*Spilopsocus ruidus* Smithers. Australia (IX): Schmidt & New, 2004.

*Telmopsocus*\*\* Schmidt & New, 2004: 174. Gender: M. Type species: *Telmopsocus waldheimensis* Schmidt & New.

*Telmopsocus waldheimensis*\* Schmidt & New, 2004: 174. Australia (IX).

*Villopsocus*\*\* Schmidt & New, 2004: 176. Gender: M. Type species: *Villopsocus tasmaniensis* Schmidt & New.

*Villopsocus tasmaniensis*\* Schmidt & New, 2004: 177. Australia: Tasmania (IX).

*Weddellopsocus*\*\* Schmidt & New, 2004: 179. Gender: M. Type species: *Psocus valdiviensis* Blanchard.

*Weddellopsocus avius* (Smithers). Schmidt & New, 2004: 179 (**from** *Spilopsocus*). New Zealand (IX).

*Weddellopsocus carrilloi* (Thornton & Lyall). Schmidt & New, 2004: 179 (**from** *Drymopsocus*).  
*Weddellopsocus flavus* (Thornton & Lyall). Schmidt & New, 2004: 179 (**from** *Drymopsocus*).  
*Weddellopsocus griseus* (New & Thornton). Schmidt & New, 2004: 179 (**from** *Drymopsocus*). Chile (V).  
*Weddellopsocus valdiviensis* (Blanchard). Schmidt & New, 2004: 179 (**from** *Drymopsocus*). Chile (V).

#### Lesneiidae

New family defined for former subfamily Lesneiinae of Elipsocidae, tentatively assigned to infraorder Homilopsocidea: Schmidt & New, 2004: 194.

*Lesneia pulchra* Broadhead & Richards. Kenya (VI): Schmidt & New, 2004.

*Lesneia nigra* Broadhead & Richards. Kenya (VI): Schmidt & New, 2004 (as *L. niger*).

#### Sabulopsocidae

New family defined, assigned to infraorder Homilopsocidea: Schmidt & New, 2004: 190.

*Moapsocus*\*\* Schmidt & New, 2004: 192. Gender: M. Type species: *Moapsocus angelicus* Schmidt & New.

*Moapsocus angelicus*\* Schmidt & New, 2004: 192. New Zealand (IX).

*Sabulopsocus* Smithers. Further diagnosis: Schmidt & New, 2004: 190.

*Sabulopsocus tractuosus* Smithers. Description of male: Schmidt & New, 2004: 191. New Zealand (IX).

#### Mesopsocidae

*Idatenopsocus orientalis* (Vishnyakova). Kuril Islands (VIII): Mockford, 2003c. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Mesopsocus boops* (Hagen). Schmidt & New, 2004: 196 (redescription) (**from** *Elipsocus*). Sri Lanka (VIII).

*Mesopsocus hongkongensis* Thornton. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Mesopsocus laticeps* (Kolbe). Germany (I): Dorow *et al.*, 2004.

*Mesopsocus unipunctatus* (Müller). Netherlands (I): Noordijk & Berg, 2002. Norway (I): Thunes *et al.*, 2004. Kuril Islands (VIII): Mockford, 2003c. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Palmicola* Mockford. Transferred to Mesopsocidae, **from** Elipsocidae: Schmidt & New, 2004: 198 (further diagnosis).

*Palmicola aphrodite* Mockford. USA (III): Schmidt & New, 2004 (fig.).

*Psoculidus* Badonnel & Lienhard. Phylogenetic relationships: Schmidt & New, 2004: 198.

*Psoculus* Roesler. Phylogenetic relationships: Schmidt & New, 2004: 198.

#### Hemipsocidae

*Hemipsocus* spec. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Hemipsocus africanus* Enderlein. Mexico (IV): Garcia Aldrete, 2004b.

*Hemipsocus chloroticus* (Hagen). Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

#### Psocidae

##### Amphigerontiinae

*Amphigerontia bifasciata* (Latreille). Germany (I): Dorow *et al.*, 2004. Great Britain (I): Saville, 2004.

*Amphigerontia jezoensis* Okamoto. Kuril Islands (VIII): Mockford, 2003c. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Blaste* spec. Mexico (IV): Garcia Aldrete, 2004b.

*Blaste posticata* (Banks). Mexico (IV): Garcia Aldrete, 2004b (as *B. ca posticata*).

*Blaste quieta* (Hagen). Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Blastopsocus* Roesler. Mockford, 2002c: 352 (augmented generic diagnosis and diagnosis of *semistriatus* species complex).

*Blastopsocus* spec. Mexico (IV): Garcia Aldrete, 2004b.

*Blastopsocus goodrichi*\* Mockford, 2002c: 352. USA (III).

*Blastopsocus johnstoni*\* Mockford, 2002c: 360. USA (III).

*Blastopsocus lithinus* (Chapman). Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Blastopsocus semistriatus* (Walsh). Augmented description: Mockford, 2002c: 357. USA, Canada (III).

*Blastopsocus walshi*\* Mockford, 2002c: 356. USA (III).

##### Psocinae

Genus spec. (tribe Ptyctini). Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Atlantopsocus semicircularis* Baz. Canary Islands (II): Domingo-Quero *et al.*, 2003.

*Atrichadenotecnum* spec. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Atrichadenotecnum quadripunctatum* Yoshizawa. Evol.: Yoshizawa, 2004b (species used for phylogenetic analyses

based on DNA sequences).

*Cerastipsocus aldretei* Badonnel. Mexico (IV): Garcia Aldrete, 2004b.

*Cerastipsocus trifasciatus* (Provancher). Mexico (IV): Garcia Aldrete, 2004b.

*Clematoscenea* spec. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Eremopsocus mockfordi* Badonnel. Mexico (IV): Garcia Aldrete, 2004b.

*Ghesquierella cantralli* Mockford. Mexico (IV): Garcia Aldrete, 2004b.

*Indiopsocus* spec. Mexico (IV): Garcia Aldrete, 2004b.

*Loensia fasciata* (Fabricius). Germany (I): Dorow *et al.*, 2004. Netherlands (I): Noordijk & Berg, 2002. Norway (I): Thunes *et al.*, 2004.

*Loensia moesta* (Hagen). Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Loensia variegata* (Latreille). Germany (I): Dorow *et al.*, 2004. Great Britain (I): Saville, 2004. Evol. (species used for phylogenetic analyses based on DNA sequences): Yoshizawa, 2004b; Johnson *et al.*, 2004.

*Longivalvus* Li Fasheng. Diagn.: Mockford, 2003c: 224.

*Longivalvus nubilus* (Enderlein). Mockford, 2003c: 224 (**from** *Psococerastis*). Kuril Islands (VIII).  
*Psocus grandis* Okamoto, 1907: 122. Synonymy confirmed: Mockford, 2003c: 224 (erroneously declared as new synonymy).  
*Psococerastis longifurcata* Vishnyakova, 1986: 352. **Synonymy**: Mockford, 2003c: 224.  
Mockford, 2003c: 224: the Indian species described by Datta (1969a) under this name is not this species, but a species of *Psococerastis*.

*Metylophorus* spec. Mexico (IV): Garcia Aldrete, 2004b.

*Metylophorus barretti* (Banks). Mexico (IV): Garcia Aldrete, 2004b (as *M. hoodi*).

*Metylophorus nebulosus* (Stephens). France (I): Thomas, 2003. Germany (I): Dorow *et al.*, 2004. Great Britain (I): Saville, 2004. Kuril Islands (VIII): Mockford, 2003c.

*Metylophorus novaescotiae* (Walker). Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Metylophorus yanezi* Badonnel. Mexico (IV): Garcia Aldrete, 2004b.

*Podopterus* spec. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Psococerastis gibbosa* (Sulzer). France (I): Thomas, 2003. Great Britain (I): Saville, 2004. Switzerland (I): Mulhauser, 1997. Kuril Islands (VIII): Mockford, 2003c (morph.).

*Psococerastis nubila* (Enderlein). Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Psocus* spec. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Psocus bipunctatus* (Linnaeus). Austria (I): Thaler, 2003. Kuril Islands (VIII): Mockford, 2003c.

*Ptycta* spec. Mexico (IV): Garcia Aldrete, 2004b. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Ptycta tikala* (Mockford). Mexico (IV): Garcia Aldrete, 2004b.

*Sigmatoneura kolbei* (Enderlein). Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

*Steleops* spec. Mexico (IV): Garcia Aldrete, 2004b.

*Symbiopsocus* Li Fasheng. Revised diagnosis: Mockford, 2003c: 225.

*Symbiopsocus hastatus*\* Mockford, 2003c: 225. Kuril Islands (VIII).

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*Trichadenotecnum album* Yoshizawa, 2001a. Evol.: Yoshizawa, 2004b (species used for phylogenetic analyses based on DNA sequences).

*Trichadenotecnum alexandrae* Sommerman. Evol.: Yoshizawa, 2004b (cf. *alexandrae*, species used for phylogenetic analyses based on DNA sequences).

*Trichadenotecnum castum* Betz. Evol.: Yoshizawa, 2004b (species used for phylogenetic analyses based on DNA sequences).

*Trichadenotecnum circularoides* Badonnel. Evol.: Yoshizawa, 2004b (species used for phylogenetic analyses based on DNA sequences).

*Trichadenotecnum corniculum*\* Yoshizawa, 2003c: 302. Japan (VIII). Evol.: Yoshizawa, 2004b (species used for phylogenetic analyses based on DNA sequences).

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*Trichadenotecnum incognitum* Roesler. Evol.: Yoshizawa, 2004b (species used for phylogenetic analyses based on DNA sequences).

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- Trichadenotecnum sexpunctatum* (Linnaeus). France (I): Thomas, 2003. Germany (I): Dorow *et al.*, 2004. Great Britain (I): Saville, 2004. Netherlands (I): Noordijk & Berg, 2002.
- Trichadenotecnum yamatomajus* Yoshizawa, 2001a. Kuril Islands (VIII): Mockford, 2003c. Evol.: Yoshizawa, 2004b (species used for phylogenetic analyses based on DNA sequences).

#### Psilopsocidae

- Psilopsocus malayanus* New & Lee. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).

#### Myopsocidae

- Lichenomima* spec. Mexico (IV): Garcia Aldrete, 2004b. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).
- Myopsocus* spec. Mexico (IV): Garcia Aldrete, 2004b.

#### 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) or in Parts 1 to 3 of the "Additions" (Psocid News, no. 4, 5, 6).

#### 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 for Psocoptera** 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 4: *Thylacella pilipennis* Enderlein: Replace "East Africa" by "Tanzania".
- Page 15: *Echmepteryx madagascariensis* (Kolbe): Distribution: Replace "East Africa" by "Tanzania".
- Page 51: Line 6: Electrentominae (subfamily of Amphientomidae): Enderlein, 1911a: 337; Smithers, 1972c: 338.
- Page 190: *Paracaecilius basidentatus* (Enderlein): Replace "East Africa" by "Tanzania".
- Page 195: *Fuelleborniella nyassica* Enderlein: Replace "East Africa" by "Tanzania" (twice).
- Page 211: *Amphipsocus iridescens* Enderlein: Replace "East Africa" by "Tanzania".
- Page 212: *Amphipsocus montanus* Enderlein: Replace "East Africa" by "Tanzania".
- Page 260: *Ectopsocus richardsi* (Pearman): Replace "West Africa" by "Ghana" (three times).
- Page 269: *Peripsocus africanus* Enderlein: Replace "East Africa" by "Tanzania".
- Page 298: *Archipsocus textor* Enderlein: Replace "East Africa" by "Tanzania".
- Page 317: *Pseudocaecilius hispidus* Enderlein: Replace "East Africa" by "Tanzania".
- Page 318: *Pseudocaecilius morstatti* Enderlein: Replace "East Africa" by "Tanzania".
- Page 343: *Elipsocus kuriliensis*: Replace URSS by USSR.
- Page 361: *Idatenopsocus orientalis*: Replace URSS by USSR.
- Page 363: *Mesopsocus diopsis* Enderlein: Replace "East Africa" by "Tanzania" (twice).
- Page 366: *Mesopsocus montinus* Enderlein: Replace "East Africa" by "Tanzania".
- Page 403: *Psococerastis* spec.: Other reference: New, 1974e (morph.) (not 1974d).
- Page 464: *Trichadenotecnum circulare* (Hagen): Replace "Indochina" by "Vietnam".
- Page 472: *Poecilopsocus pulcher* (Enderlein): Replace "Central America" by "Panama".
- Page 491: *Myopsocus unduosus* (Hagen): Redescription: Mockford, 1982: 212 (lectotype designated). Sri Lanka (VIII).
- Page 518: Broza, M. 2000. Corrected version of the reference, see above (Additions to the Bibliography).
- Page 576: Li Fasheng 1994b: pp. 79-83.
- Page 607: New & Thornton, 1976: The complete title of the paper is: Psocomorpha (Psocoptera) from the Malayan Peninsula, including collections from the forest canopy.
- Page 647: Thornton, I. W. B., Lee, S. S. & Chui, W. D. 1972. (not Chui, V. W. D).
- Page 647: Thornton, Wong & Smithers, 1977. Correction in the title of this paper: .... and islands of... (not: the islands).

## **EDITORIAL**

"Psocid News" publishes any kinds of topics (formal or informal) that may be interesting for psocidologists, but articles containing official nomenclatural acts (e.g. descriptions of new taxa, proposals of new combinations or new synonyms) will not be accepted for publication by the editor (see below).

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### **Next issue**

About Feb. 2006. Please let me have all contributions by Jan. 31 2006 if possible.

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