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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"

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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 Kentjonowati & 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).
Pseudorypteryx 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

- Bertkauia* Kolbe. Complements to diagnosis and key to species (females), remarks on abnormal wing venation in males: Mockford, 2003c.
- Bertkauia crosbyana* Chapman. Morph.: Mockford, 2003c: 196. Evol.: Johnson *et al.*, 2004 (species used for phylogenetic analyses based on DNA sequences).
- Bertkauia lepicidinaria* Chapman. Morph.: Mockford, 2003c: 196.
- Bertkauia loebli* (Badonnel). Morph.: Mockford, 2003c: 196.
- Bertkauia lucifuga* (Rambur). Germany (I): Dorow *et al.*, 2004. Morph.: Mockford, 2003c: 196.
- Bertkauia marusiki** Mockford, 2003c: 196. Kuril Islands (VIII).
- Bertkauia 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).

Trichadenotecnum Enderlein. Establishment of a new species group (*corniculum*-group): Yoshizawa, 2003c. Monophyly of the genus supported, phylogenetic relationships among species groups: Yoshizawa, 2004b.

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

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).

Trichadenotecnum falx Yoshizawa, 2001a. Kuril Islands (VIII): Mockford, 2003c. Evol.: Yoshizawa, 2004b (species used for phylogenetic analyses based on DNA sequences).

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

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

*Trichadenotecnum germinatum** Yoshizawa, 2003c: 303. Japan (VIII).

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

- Trichadenotecnum latebrachium* Yoshizawa, 2001a. Evol.: Yoshizawa, 2004b (species used for phylogenetic analyses based on DNA sequences).
- Trichadenotecnum majus* (Kolbe). Germany (I): Dorow *et al.*, 2004. Kuril Islands (VIII): Mockford, 2003c (doubtful record).
- Trichadenotecnum medium* Thornton. Evol.: Yoshizawa, 2004b (cf. *medium*, species used for phylogenetic analyses based on DNA sequences).
- Trichadenotecnum mixtum* Yoshizawa, 2001a. Evol.: Yoshizawa, 2004b (species used for phylogenetic analyses based on DNA sequences).
- Trichadenotecnum nothoapertum* Yoshizawa, 2001a. Evol.: Yoshizawa, 2004b (species used for phylogenetic analyses based on DNA sequences).
- 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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- Zhao Zhimo 2002e. See Cheng Weixia *et al.* 2002.
- Zhao Zhimo 2003. See Wang Jinjun & Zhao Zhimo 2003.

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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