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Psocid News

The Psocidologists' Newsletter

No. 14 (Feb. 29, 2012)



Atrichadenotecnum quadripunctatum

ADDITIONS AND CORRECTIONS (PART 11) TO LIENHARD & SMITHERS, 2002: "PSOCOPTERA (INSECTA) – WORLD CATALOGUE AND BIBLIOGRAPHY"

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1. Introduction

This is the 11th part of a series of "Additions and Corrections to the World Catalogue and Bibliography" (Lienhard & Smithers, 2002) published in "Psocid News". Parts 1-10 were published in Psocid News no. 4-13 (see below); a **Synthesis of Parts 1-10** is available online at:

http://www.ville-ge.ch/mhng/psocoptera/divers/synthesis_add_1_10.pdf

Please send me regularly copies of your papers on Psocoptera, and please inform me about errors that you find in Lienhard & Smithers (2002). If papers which came to your notice are not treated in the "Additions", please send me the bibliographical references by e-mail. In the "Additions to the Bibliography", references to the papers which I have not yet seen are marked with "(Not seen)" or "(Only abstract seen)". Please send me a copy or PDF of these papers if you feel concerned. Only papers which I have seen are analysed for the "Additions to the Catalogue", or those where the matter they deal with is clearly indicated in the title or in the abstract.

In general these "Additions" present the information in the style of the catalogue (Lienhard & Smithers, 2002), 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 Lienhard & Smithers (2002), except for changes published since (see "Additions", Parts 1-10). For each family, newly published changes concerning supra-generic taxa are mentioned at the beginning of the family treatment. For genus-group names and species-group names already listed by Lienhard & Smithers (2002) only the author is cited here. 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 listed by Lienhard & Smithers (2002), but cited in a preceding part of the "Additions", author and year are always mentioned. Genera are listed alphabetically within each family. Species are listed alphabetically within each genus. Species names are usually cited in the combination used by Lienhard & Smithers (2002), if not an explicit change of combination (or a new synonymy) has been published since.

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 the chapter "Additions to the Bibliography", can be found in the World Bibliography (Lienhard & Smithers,

2002: 493-664) or in Parts 1 to 10 of the "Additions" (see list below); a **Synthesis of Parts 1-10** is available online at: http://www.ville-ge.ch/mhng/psocoptera/divers/synthesis_add_1_10.pdf

2. List of countries mentioned in the "Additions and Corrections to the World Catalogue" (Parts 1-11)

Country checklists of Psocoptera species extracted from Lienhard & Smithers (2002) are available online at: <http://www.ville-ge.ch/mhng/psocoptera/page/ps-coun.htm>

All additional species records are mentioned in the "Additions and Corrections to the World Catalogue" and all countries mentioned in Parts 1 to 11 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, mainly from amber (**A**). This list is provided to facilitate computer searching for distributional references in the online version of the different parts which can be found at <http://insect3.agr.hokudai.ac.jp/psoco-web/psoco-net/index.html> or in the **Synthesis of Parts 1-10** available online at: http://www.ville-ge.ch/mhng/psocoptera/divers/synthesis_add_1_10.pdf

- Part 1 – Psocid News, no. 4 (2003): 2-24 (= Lienhard, 2003a)
- Part 2 – Psocid News, no. 5 (2003): 2-37 (= Lienhard, 2003b)
- Part 3 – Psocid News, no. 6 (2004): 1-23 (= Lienhard, 2004a)
- Part 4 – Psocid News, no. 7 (2005): 1-16 (= Lienhard, 2005a)
- Part 5 – Psocid News, no. 8 (2006): 1-18 (= Lienhard, 2006a)
- Part 6 – Psocid News, no. 9 (2007): 1-17 (= Lienhard, 2007a)
- Part 7 – Psocid News, no. 10 (2008): 1-18 (= Lienhard, 2008a)
- Part 8 – Psocid News, no. 11 (2009): 2-16 (= Lienhard, 2009a)
- Part 9 – Psocid News, no. 12 (2010): 1-18 (= Lienhard, 2010)
- Part 10 – Psocid News, no. 13 (2011): 1-18 (= Lienhard, 2011a)
- Parts 1-10 – see URL above** (= Lienhard, 2011c)
- Part 11 – published in Psocid News, no. 14 (= present issue)

(I) Austria (Parts 1, 3, 4, 5, 6, 8, 9), Bahrain (Part 8), Belgium (Parts 3, 6, 8, 10), Bulgaria (Part 8), Croatia (Parts 6, 7, 11), Cyprus (Part 11), Czech Republic (Parts 1, 4, 5, 6, 7, 8, 10, 11), Denmark (Part 10), Egypt (Part 6), Europe (Parts 10, 11), Finland (Parts 1, 7, 10, 11), France (Parts 1, 3, 4, 6, 7, 8, 9, 10, 11), Germany (Parts 1, 3, 4, 5, 7, 8, 10, 11), Great Britain (Parts 1, 3, 4, 5, 6, 7, 8, 9, 10, 11), Greece (Parts 5, 6, 11), Hungary (Parts 1, 3, 10), Iceland (Part 10), Iran (Parts 6, 8), Ireland (Parts 6, 9), Israel (Parts 4, 6, 8, 11), Italy (Parts 1, 3, 5, 6, 7, 8, 9, 10), Lebanon (Parts 6, 7, 9, 10, 11), Lithuania (Part 8), Luxembourg (Parts 1, 3, 7, 8, 10), Morocco (Part 10), Netherlands (Parts 4, 7, 9, 11), Norway (Parts 4, 10), Oman (Part 8), Portugal (Parts 6, 7), Romania (Part 10), Russia (Parts 6, 8, 10), Saudi Arabia (Part 8), Slovakia (Parts 1, 11), Spain (Parts 1, 5, 7, 8, 9, 11), Sweden (Part 8, 10), Switzerland (Parts 1, 3, 4, 6, 7, 8, 11), Turkey (Part 5, 10), UAE (Parts 8, 9), Ukraine (Part 6), Yemen (Parts 4, 8)

(II) Ascension Island (Part 11), Azores (Parts 5, 11), Canary Islands (Parts 1, 4, 5, 10, 11), Cape Verde Islands (Parts 5, 11), Gough Island (Parts 5, 6), Madeira (Parts 5, 8), Saint Helena (Parts 5, 11), Selvagens Islands (Parts 1, 8)

(III) Canada (Parts 4, 6, 7, 8), North America (Part 11), USA (Parts 1, 4, 5, 6, 7, 8, 9, 10, 11)

(IV) Belize (Parts 1, 4, 6, 8, 9, 10), Costa Rica (Parts 1, 6, 8), Cuba (Parts 6, 11), Dominica (Parts 5, 6, 11), Dominican Republic (Parts 4, 6, 7, 8), Guatemala (Parts 1, 4, 7, 8, 11), Haiti (Parts 1, 4), Hispaniola (Part 10), Honduras (Part 8), Jamaica (Parts 7, 8, 9), Mexico (Parts 1, 3, 4, 5, 6, 7, 8, 9, 10, 11), Middle America (Part 11), Nicaragua (Parts 1, 3, 4, 6, 7, 8), Panama (Parts 4, 6, 8), Puerto Rico (Parts 1, 7, 10), Trinidad (Part 1)

(V) Argentina (Parts 3, 4, 8, 9), Bolivia (Parts 1, 5, 9, 10), Brazil (Parts 1, 4, 5, 6, 7, 8, 9, 10, 11), Chile (Parts 1, 4, 6, 8), Colombia (Parts 1, 10, 11), Ecuador (Parts 1, 6, 8), Peru (Parts 1, 5, 6, 8, 9, 10, 11), Suriname (Part 10), Venezuela (Parts 1, 4, 6, 7, 8, 10)

(VI) Ghana (Part 4), Guinea (Part 1), Kenya (Part 4), Madagascar (Part 5), Malawi (Part 3), Namibia (Parts 1, 6, 7, 8, 10), South Africa (Parts 3, 6, 7, 8, 11), Tanzania (Parts 3, 4), Uganda (Part 6)

(VIII) Brunei (Parts 5, 6), China (Parts 2, 3, 5, 6, 7, 8, 9, 10, 11), Hong Kong (Part 5), India (Parts 3, 5, 6, 7, 11), Indonesia (Parts 1, 3, 5, 6, 10), Japan (Parts 1, 4, 6, 7, 8, 9, 10), Kuril Islands (Part 4), Kyrgyzstan (Part 5), Laos (Parts 5, 6), Malaysia (Parts 1, 5, 6, 8, 10), Myanmar (Parts 6, 8), Nepal (Part 7), New Guinea (Parts 3, 5, 8), Philippines (Parts 3, 5, 6), Russia (Parts 1, 10, 11), SE-Asia (Part 7), Singapore (Part 5), Sri Lanka (Parts 4, 6), Taiwan (Parts 1, 6, 7, 8), Thailand (Parts 1, 4, 5, 6, 9, 11), USSR (Parts 4, 9), Vietnam (Parts 4, 5, 6, 8)

(IX) Australia (Parts 1, 4, 5, 6, 7, 8, 10), Lord Howe Island (Parts 4, 7), New Zealand (Parts 1, 4),

Tasmania (Part 9)

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

(A) Amber and Copal (or other fossils) (Parts 1, 3, 5, 6, 7, 8, 9, 10, 11)

3. Additions to the Catalogue

Psocoptera

FaEu Bureau, 2004 (Fauna Europaea, distribution in European countries). Brasero *et al.*, 2009 (list of amber fossils according to Nel *et al.*, 2005). Perotti *et al.*, 2009 (endosymbionts of lice). Choufani, 2010 (Lower Cretaceous amber, Lebanon; see also published version: Choufani *et al.*, 2011). Ineichen & Ruckstuhl, 2010 (general remarks on some domestic psocids from Switzerland). Kanervo & Söderman, 2010 (Red List for Finland). Van Zuijlen, 2010 (general remarks on Psocoptera fauna of The Netherlands). Britton, 2011 (biography of C. N. Smithers). Di Iorio & Turienzo, 2011 (psocids in poultry houses, only identified to order). Ishiwata *et al.*, 2011 (Psocoptera mentioned in molecular phylogenetic analysis of insects). Lienhard, 2011a (additions to the World Catalogue and Bibliography, Part 10). Lienhard, 2011c (additions to the World Catalogue and Bibliography, Synthesis of Parts 1-10). Monroy *et al.*, 2011 (soil psocids negatively affected by the presence of earthworms). Sabu *et al.*, 2011 (Winkler extractor best quantitative method for sampling ground-dwelling psocids, India). Sarria, 2011 (71 morphospecies, analysis of psocid diversity in different biotopes, Colombia). Walker *et al.*, 2011 (psocids present in onion seed crop fields but they are not pollinators). Yoshizawa, 2011a (newsletter).

Lepidopsocidae

Echmepteryx spec. Dominica (IV): Garcia Aldrete, 2011a.

Echmepteryx falco (Badonnel). Colombia (V): Sarria, 2011.

Echmepteryx hageni (Packard). USA (III): Shreve *et al.*, 2011 (genetic diversity, parthenogenesis).

Echmepteryx madagascariensis (Kolbe). Germany (I): Günther & Lienhard, 2011. Colombia (V): Sarria, 2011.

Nepticulomima spec. Dominica (IV): Garcia Aldrete, 2011a.

Proentomum personatum Badonnel. Dominica (IV): Garcia Aldrete, 2011a. Colombia (V): Sarria, 2011.

Pseudopsyllipsocus Li Fasheng, 2002. Genus assigned to Lepidopsocidae: Mockford, 2011: 18.

Soa flaviterminata Enderlein. Germany (I): Günther & Lienhard, 2011. Dominica (IV): Garcia Aldrete, 2011a.

Trogiidae

Cerobasis annulata (Hagen). Germany (I): Günther & Lienhard, 2011. Azores (II): Baz, 2010. Saint Helena (II): Mendel *et al.*, 2008; Lienhard & Ashmole, 2011.

*Cerobasis atlantica** Lienhard, 2011; *in*: Lienhard & Ashmole, 2011: 427. Saint Helena (II).

Cerobasis guesstfalica (Kolbe). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011. Ascension Island (II): Lienhard & Ashmole, 2011. Azores (II): Baz, 2010. Saint Helena (II): Mendel *et al.*, 2008; Lienhard & Ashmole, 2011.

Cerobasis harteni Lienhard. Azores (II): Baz, 2010.

Cerobasis maya Garcia Aldrete. Ascension Island (II): Lienhard & Ashmole, 2011 (descr.).

Helenatropos abrupta Lienhard, 2005. Description of male: Lienhard & Ashmole, 2011: 426; South Africa (VI). Saint Helena (II): Mendel *et al.*, 2008; Lienhard & Ashmole, 2011.

Lepinotus inquilinus Heyden. Germany (I): Günther & Lienhard, 2011. Azores (II): Baz, 2010. Saint Helena (II): Mendel *et al.*, 2008; Lienhard & Ashmole, 2011.

Lepinotus patruelis Pearman. Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011. Photograph: Van Zuijlen, 2010.

Lepinotus reticulatus Enderlein. Germany (I): Günther & Lienhard, 2011. Azores (II): Baz, 2010. Pest: Athanassiou *et al.*, 2010d (control).

Trogium pulsatorium (Linnaeus). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011. Azores (II): Baz, 2010.

Psoquillidae

Psoquilla marginepunctata Hagen. Germany (I): Günther & Lienhard, 2011. Azores (II): Baz, 2010. Mexico (IV): Castaño-Meneses *et al.*, 2005.

Psyllipsocidae

Dorypteryx domestica (Smithers). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011.

Dorypteryx longipennis Smithers. Photograph: Van Zuijlen, 2010; De Wilde, 2011.

Dorypteryx pallida Aaron. Germany (I): Günther & Lienhard, 2011.

*Libanopsyllipsocus*** Azar & Nel, 2011: 154. Gender: M. Type species: *Libanopsyllipsocus alexanderasnitsyni* Azar & Nel.

*Libanopsyllipsocus alexanderasnitsyni** Azar & Nel, 2011: 155. Amber (Cretaceous) (A): Lebanon (I).
NOTE: The holotype figured is considered as a male by the authors; however, in my opinion these figures clearly illustrate a female specimen, not belonging to the family Psyllipsocidae but to the family Pachytroctidae.

Psocathropos lachlani Ribaga. Ascension Island (II): Lienhard & Ashmole, 2011.

Psyllipsocus Selys-Longchamps. Diagnosis, characters for distinguishing species, note on phallosome, phylogenetic discussion, key to North- and Middle-American species: Mockford, 2011.

Psyllipsocus spec. Dominica (IV): Garcia Aldrete, 2011a.

*Psyllipsocus albipalpus** Mockford, 2011: 18. Mexico (IV).

*Psyllipsocus apache** Mockford, 2011: 19. USA (III).

*Psyllipsocus decoratus** Mockford, 2011: 20. USA (III).

*Psyllipsocus flexuosus** Mockford, 2011: 20. Guatemala (IV).

*Psyllipsocus fuscipalpus** Mockford, 2011: 22. Guatemala (IV).

*Psyllipsocus hilli** Mockford, 2011: 22. USA (III).

*Psyllipsocus huastecanus** Mockford, 2011: 23. Mexico (IV).

Psyllipsocus hyalinus Garcia Aldrete. Mexico (IV): Mockford, 2011: 25 (further description).

*Psyllipsocus kintpuashi** Mockford, 2011: 25. USA (III).

Psyllipsocus maculatus Garcia Aldrete, 1993. Senior homonym of *P. maculatus* Li Fasheng, 2002: Mockford, 2011: 26 (further description); USA (III), Mexico (IV).

Psyllipsocus maculatus Li Fasheng, 2002. Junior homonym of *P. maculatus* Garcia Aldrete, 1993. Mockford, 2011: 26.

Psyllipsocus oculatus Gurney. USA (III), Mexico (IV): Mockford, 2011: 26 (further description).

*Psyllipsocus poblanus** Mockford, 2011: 27. Mexico (IV).

Psyllipsocus ramburii Selys-Longchamps. Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011. Ascension Island (II): Lienhard & Ashmole, 2011. Azores (II): Baz, 2010. Saint Helena (II): Mendel *et al.*, 2008; Lienhard & Ashmole, 2011. North- and Middle-America (III, IV): Mockford, 2011: 27 (some notable characters mentioned).

*Psyllipsocus regiomontanus** Mockford, 2011: 28. Mexico (IV).

*Psyllipsocus squamatus** Mockford, 2011: 29. Mexico (IV).

*Psyllipsocus subterraneus** Mockford, 2011: 30. USA (III).

Psyllipsocus yucatan Gurney. Brazil (V): Mockford, 2011: 31 (further description).

Prionoglarididae

Prionoglaridid from Cretaceous amber (Lebanon) figured by Grimaldi & Engel (2005: Fig. 8.6) belongs not to Prionoglarididae but to Psyllipsocidae: Mockford, 2011: 45 (based on personal communication by C. Lienhard).

Neotroglia brasiliensis Lienhard, 2010. Morph.: Yoshizawa, 2011b (hindwing base structure).

Prionoglaris stygia Enderlein. France (I): Keller, 2011 (host of pathogenic fungus). Germany (I): Günther & Lienhard, 2011. Figs: Lienhard, 2011b.

Siamoglaris Lienhard, 2004. Revised diagnosis: Lienhard, 2011b: 294.

Siamoglaris zebrina Lienhard, 2004. Description of female: Lienhard, 2011b: 296 (scent setae on gonapophyses). Further description of male: Lienhard, 2011b: 298. Thailand (VIII).

*Siamoglaris theresiae** Lienhard, 2011b: 301. Thailand (VIII).

Compsocidae

Compsocus elegans Banks. Colombia (V): Sarria, 2011.

Amphientomidae

Key to Western Palaearctic amphientomids: Lienhard & Baz: 463.

*Libanomphientomum*** Choufani, Azar & Nel, 2011: 150. Gender: N. Type species: *Libanomphientomum nudum* Choufani, Azar & Nel.

*Libanomphientomum nudum** Choufani, Azar & Nel, 2011: 151 (as *L. nudus*). Amber (Cretaceous) (A): Lebanon (I).

Lithoseopsis spec. Dominica (IV): Garcia Aldrete, 2011a.

Marcenendius Navas. Revised diagnosis: Lienhard & Baz, 2011: 453.

Marcenendius angolensis (Badonnel). Lienhard & Baz, 2011: 453, 454 (**from** *Nephax*).
Marcenendius fortunatus (Navas). Lienhard & Baz, 2011: 453, 459 (**from** *Nephax*). Canary Islands, Cape Verde Islands (II). NOTE: Fig. 6b of Lienhard & Baz (2011) shows pronotal corcscrew hairs of nymph and not of female as erroneously indicated in the legend.
Marcenendius nostras Navas. Redescription: Lienhard & Baz, 2011: 454. Spain (I).
Marcenendius illustris Navas. **Synonymy**: Lienhard & Baz, 2011: 454.
Nephax Pearman. Revised diagnosis: Lienhard & Baz, 2011: 462.
Nephax postalatus Lienhard, 2009. United Arab Emirates (UAE) (I): Lienhard & Baz, 2011.
Nephax sofadanus Pearman. Croatia, Cyprus, Greece, Israel (I): Lienhard & Baz, 2011.
Seopsis nepalensis New. Lienhard & Baz, 2011: 462 (**from** *Nephax*).

Liposcelididae

Embidopsocus enderleini (Ribaga). Croatia (I): Kucerova & Kalinovic, 2010.
Liposcelis spec. France (I): Perotin *et al.*, 2011 (*Liposcelis* spec. as indoor allergen). Saint Helena, Ascension Island (II): Lienhard & Ashmole, 2011. Cuba (IV): Dominguez Umpierrez & Marrero Artabe, 2010 (pest).
Liposcelis bostrychophila Badonnel. Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011. Ascension Island (II): Lienhard & Ashmole, 2011. Azores (II): Baz, 2010. Saint Helena (II): Mendel *et al.*, 2008; Lienhard & Ashmole, 2011. Ethol.: Green, 2011 (reaction to repellents). Genet.: Jiang Hong-Bo *et al.*, 2011 (beta-actin gene). Parasit.: Thepparit *et al.*, 2011 (ricketsial pathogen isolated from *L. bostrychophila*). Pest: Athanassiou *et al.*, 2010d, 2011 (control); Beckett, 2011 (control); Bonjour *et al.*, 2011 (control); Kavallieratos *et al.*, 2011 (control). Techn.: Li Zhi-Hong *et al.*, 2011 (morphological and molecular identification of different geographical populations); Wei Dan-Dan *et al.*, 2011 (nucleotide sequences as useful tools for species discrimination and phylogenetic inference).
Liposcelis brunnea Motschulsky. Finland (I): Kanervo, 2010.
Liposcelis corrodens (Heymons). Finland (I): Kanervo, 2010. Azores (II): Baz, 2010. Pest: Opit *et al.*, 2011 (control).
Liposcelis decolor (Pearman). Finland (I): Kanervo, 2010. Greece (I): Hollier *et al.*, 2011. Pest: Athanassiou *et al.*, 2010d, 2011 (control); Beckett, 2011 (control); Opit *et al.*, 2011 (control). Techn.: Wei Dan-Dan *et al.*, 2011 (nucleotide sequences as useful tools for species discrimination and phylogenetic inference).
Liposcelis divinatoria (Müller). Morph.: Fauchaux, 2009 (auricilliform sensilla).
Liposcelis entomophila (Enderlein). Finland (I): Kanervo, 2010. Azores (II): Baz, 2010. Saint Helena (II): Mendel *et al.*, 2008; Lienhard & Ashmole, 2011. Pest: Athanassiou *et al.*, 2010d (control). Techn.: Wei Dan-Dan *et al.*, 2011 (nucleotide sequences as useful tools for species discrimination and phylogenetic inference).
Liposcelis paeta Pearman. Pest: Athanassiou *et al.*, 2010d, 2011 (control); Beckett, 2011 (control); Bonjour *et al.*, 2011 (control). Techn.: Wei Dan-Dan *et al.*, 2011 (nucleotide sequences as useful tools for species discrimination and phylogenetic inference).
Liposcelis palatina Roesler. Finland (I): Kanervo, 2010. Slovakia (I): Holusa & Kucerova, 2010 (in nests of *Passer montanus*).
Liposcelis pearmani Lienhard. Finland (I): Kanervo, 2010. Ecol.: Aminatou *et al.*, 2011 (population dynamics).
Liposcelis pubescens Broadhead. Azores (II): Baz, 2010.
Liposcelis silvarum (Kolbe). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011.
Liposcelis tricolor Badonnel. Techn.: Wei Dan-Dan *et al.*, 2011 (nucleotide sequences as useful tools for species discrimination and phylogenetic inference).
Liposcelis yunnaniensis Li & Li. Ecol.: Hassan *et al.*, 2011 (population dynamics). Techn.: Wei Dan-Dan *et al.*, 2011 (nucleotide sequences as useful tools for species discrimination and phylogenetic inference).
Troglotroctes ashmoleorum Lienhard. Ascension Island (II): Lienhard & Ashmole, 2011 (habitus fig.).

Pachytroctidae

See "NOTE" on *Libanopsyllipsocus alexanderasnitzyi* (Psyllipsocidae).

Sphaeropsocidae

Badonnelia titei Pearman. Czech Republic (I): Holusa, 2009. Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011.
*Sphaeropsocopsis insularum** Lienhard, 2011; *in*: Lienhard & Ashmole, 2011: 434. Saint Helena, Ascension Island (II).

Sphaeropsocopsis cf. *microps* Badonnel: Ashmole & Ashmole, 1997, 2000a; Lienhard, 2004d.
Sphaeropsocopsis myrtleae Lienhard & Ashmole. Description of male, further description of female:
Lienhard & Ashmole, 2011. Saint Helena (II): Mendel *et al.*, 2008; Lienhard & Ashmole, 2011.

Epipsocidae

Bertkauia lucifuga (Rambur). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011. Greece (I): Hollier *et al.*, 2011. Azores (II): Baz, 2010.
Mesepipsocus spec. Dominica (IV): Garcia Aldrete, 2011a.

Ptiloneuridae

Loneura Navas. Key to South American species: Garcia Aldrete *et al.*, 2011a (p. 36). Definition of species groups: Garcia Aldrete *et al.*, 2011b (p. 61).
Loneura spec. Brazil, Colombia (V): Garcia Aldrete *et al.*, 2011b (p. 62, in key).
*Loneura colombiana** Garcia Aldrete, Gonzalez & Carrejo, 2011: 35. Colombia (V).
*Loneura gorgonaensis** Garcia Aldrete, Gonzalez & Sarria, 2011: 55. Colombia (V).
*Loneura insularis** Garcia Aldrete, Gonzalez & Sarria, 2011: 57. Colombia (V).
Loneura mirandaensis Garcia Aldrete, 2007. Colombia (V): Garcia Aldrete *et al.*, 2011a.
*Loneura monticola** Garcia Aldrete, Gonzalez & Sarria, 2011: 59. Colombia (V).
Loneuroides venezolanus Garcia Aldrete, 2006. Colombia (V): Garcia Aldrete *et al.*, 2011a.

Caeciliusidae

Caecilius fuscopterus (Latreille). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011. Greece (I): Hollier *et al.*, 2011.
Enderleinella obsoleta (Stephens). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011. Great Britain (I): Alexander, 2009b.
Epicaecilius pilipennis (Lienhard). Great Britain (I): Alexander, 2009b.
Lienhardiella dahli (Badonnel). Azores (II): Baz, 2010.
Stenocaecilius benoiti (Badonnel). Saint Helena (II): Mendel *et al.*, 2008; Lienhard & Ashmole, 2011.
Stenocaecilius caboverdensis (Meinander). Azores (II): Baz, 2010. Saint Helena, Ascension Island (II): Lienhard & Ashmole, 2011.
Valenzuela spec. Dominica (IV): Garcia Aldrete, 2011a.
Valenzuela atricornis (McLachlan). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011. Greece (I): Hollier *et al.*, 2011.
Valenzuela burmeisteri (Brauer). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011. Azores (II): Baz, 2010.
Valenzuela corsicus (Kolbe). Germany (I): Günther & Lienhard, 2011.
Valenzuela despaxi (Badonnel). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011.
Valenzuela flavidus (Stephens). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011. Greece (I): Hollier *et al.*, 2011. Azores (II): Baz, 2010.
Valenzuela gynapterus (Tetens). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011.
Valenzuela piceus (Kolbe). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011.

Stenopsocidae

Graphopsocus cruciatus (Linnaeus). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011. Greece (I): Hollier *et al.*, 2011. Dominica (IV): Garcia Aldrete, 2011a. Colombia (V): Sarria, 2011.
Stenopsocus immaculatus (Stephens). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011.
Stenopsocus lachlani Kolbe. Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011.
Stenopsocus stigmaticus (Imhoff & Labram). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011.

Amphipsocidae

Kolbia quisquiliarum Bertkau. Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011. Greece (I): Hollier *et al.*, 2011.

Lachesillidae

*Amazolachesilla*** Garcia Aldrete & Mockford, 2011c: 554 (genus assigned to Eolachesillinae, Graphocaeciliini). Gender: F. Type species: *Amazolachesilla ariasi* Garcia Aldrete & Mockford.
*Amazolachesilla ariasi** Garcia Aldrete & Mockford, 2011c: 554. Brazil (V).
*Hemicaecilius cuzcoensis** Garcia Aldrete & Mockford, 2011b: 420. Peru (V).

Lachesilla Westwood. Garcia Aldrete, 2011a: List of known species groups (p. 483) and definition of two new species groups (p. 482): *L. palmera* group and *L. clavicularis* group. Garcia Aldrete, 2011b: Definition of the *L. asperiforceps* species complex (p. 825) within the *L. forcepeta* species group and key to the species of this complex (p. 826). Garcia Aldrete & Mockford, 2011d: Reappraisal of *L. patzunensis* species group and definition of *L. sclera* species group, with key to the species of the latter (p. 424) and figures of genitalia for several species.

Lachesilla acapulcana* Garcia Aldrete, 2011b: 826. Mexico (IV).

Lachesilla acapulcanoides* Garcia Aldrete, 2011b: 827. Mexico (IV).

Lachesilla asperiforceps Garcia Aldrete, 2001. Further description: Garcia Aldrete, 2011b: 830.

Lachesilla bernardi Badonnel. Germany (I): Günther & Lienhard, 2011. Greece (I): Hollier *et al.*, 2011.

Lachesilla clavicularis* Garcia Aldrete, 2011a: 482. Dominica (IV).

Lachesilla dentata* Garcia Aldrete & Mockford, 2010: 187. Mexico, Guatemala (IV).

Lachesilla greeni (Pearman). Germany (I): Günther & Lienhard, 2011. Azores (II): Baz, 2010.

Lachesilla latiforceps* Garcia Aldrete, 2011b: 830. Guatemala, Mexico (IV).

Lachesilla pedicularia (Linnaeus). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011. Greece (I): Hollier *et al.*, 2011.

Lachesilla picticeps Mockford. Mexico (IV): Castaño-Meneses *et al.*, 2005.

Lachesilla pisaqensis* Garcia Aldrete & Mockford, 2010: 188. Peru (V).

Lachesilla quercus (Kolbe). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011. Greece (I): Hollier *et al.*, 2011. USA (III): Stoaks, 2009.

Lachesilla striatiforceps* Garcia Aldrete, 2011b: 830. Mexico (IV).

Lachesilla sulcata Garcia Aldrete. Description of male: Garcia Aldrete & Mockford, 2011d: 418. USA (III), Mexico (IV).

Lachesilla tanaidana Roesler. Germany (I): Günther & Lienhard, 2011.

Lachesilla zaragozai* Garcia Aldrete & Mockford, 2010: 189. Mexico (IV).

Waoraniella vidali* Garcia Aldrete & Mockford, 2011a: 125. Brazil (V).

Ectopsocidae

Ectopsocopsis cryptomeriae (Enderlein). Germany (I): Günther & Lienhard, 2011. Greece (I): Hollier *et al.*, 2011.

Ectopsocopsis xerophylla Vishnyakova. Greece (I): Hollier *et al.*, 2011.

Ectopsocus axillaris (Smithers). Great Britain (I): Alexander, 2009b.

Ectopsocus briggsi McLachlan. Finland (I): Kanervo, 2010; Kanervo & Söderman, 2010 (species on Red List). Germany (I): Günther & Lienhard, 2011. Greece (I): Hollier *et al.*, 2011. Azores (II): Baz, 2010. Saint Helena (II): Mendel *et al.*, 2008; Lienhard & Ashmole, 2011.

Ectopsocus californicus (Banks). Colombia (V): Sarria, 2011.

Ectopsocus meridionalis Ribaga. Germany (I): Günther & Lienhard, 2011. Greece (I): Hollier *et al.*, 2011.

Ectopsocus pumilis (Banks). Azores (II): Baz, 2010.

Ectopsocus richardsi (Pearman). Azores (II): Baz, 2010.

Ectopsocus strauchi Enderlein. Ascension Island (II): Lienhard & Ashmole, 2011. Azores (II): Baz, 2010. Saint Helena (II): Mendel *et al.*, 2008; Lienhard & Ashmole, 2011.

Ectopsocus titschacki Jentsch. Germany (I): Günther & Lienhard, 2011. Dominica (IV): Garcia Aldrete, 2011a. Colombia (V): Sarria, 2011.

Ectopsocus vachoni Badonnel. Greece (I): Hollier *et al.*, 2011.

Peripsocidae

Peripsocus alboguttatus (Dalman). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011. Greece (I): Hollier *et al.*, 2011.

Peripsocus bivari Baz. Azores (II): Baz, 2010.

Peripsocus consobrinus Pearman. Finland (I): Kanervo, 2010; Kanervo & Söderman, 2010 (species on Red List).

Peripsocus decellei Badonnel. Saint Helena (II): Mendel *et al.*, 2008; Lienhard & Ashmole, 2011.

Peripsocus didymus Roesler. Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011.

Peripsocus leleupi Badonnel. Ascension Island (II): Lienhard & Ashmole, 2011. Saint Helena (II): Ashmole & Ashmole, 2004; Mendel *et al.*, 2008; Lienhard & Ashmole, 2011.

Peripsocus milleri (Tillyard). Azores (II): Baz, 2010.

Peripsocus parvulus Kolbe. Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011.

Peripsocus pauliani Badonnel. Ascension Island (II): Lienhard & Ashmole, 2011. Saint Helena (II): Mendel *et al.*, 2008; Lienhard & Ashmole, 2011.

Peripsocus phaeopterus (Stephens). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011. Greece (I): Hollier *et al.*, 2011. Azores (II): Baz, 2010.

Peripsocus subfasciatus (Rambur). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011. Azores (II): Baz, 2010.

Trichopsocidae

Trichopsocus clarus (Banks). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011. Great Britain (I): Alexander, 2008c, 2009b. Azores (II): Baz, 2010. Saint Helena (II): Mendel *et al.*, 2008; Lienhard & Ashmole, 2011.

Trichopsocus dalii (McLachlan). Germany (I): Günther & Lienhard, 2011. Greece (I): Hollier *et al.*, 2011.

Pseudocaeciliidae

Pseudocaecilius citricola (Ashmead). Dominica (IV): Garcia Aldrete, 2011a. Colombia (V): Sarria, 2011.

Pseudocaecilius tahitiensis (Karny). Dominica (IV): Garcia Aldrete, 2011a.

Philotarsidae

Aaroniella badonneli (Danks). Azores (II): Baz, 2010.

Philotarsus parviceps Roesler. Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011. Greece (I): Hollier *et al.*, 2011. Netherlands (I): Van Zuijlen & Belgers, 2011.

Philotarsus picicornis (Fabricius). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011. Netherlands (I): Van Zuijlen & Belgers, 2011. Azores (II): Baz, 2010.

Elipsocidae

Cuneopalpus cyanops (Rostock). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011. Greece (I): Hollier *et al.*, 2011.

Elipsocus azoricus Meinander. Azores (II): Baz, 2010.

Elipsocus brincki Badonnel. Azores (II): Baz, 2010.

Elipsocus hyalinus (Stephens). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011. Greece (I): Hollier *et al.*, 2011.

Elipsocus moebiusi Tetens. Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011. Greece (I): Hollier *et al.*, 2011.

Elipsocus pumilis (Hagen). Finland (I): Kanervo, 2010.

Hemineura dispar Tetens. Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011.

Pseudopsocus fusciceps (Reuter). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011.

Pseudopsocus meridionalis Badonnel. Germany (I): Günther & Lienhard, 2011.

Pseudopsocus rostocki Kolbe. Germany (I): Günther & Lienhard, 2011.

Reuterella helvimacula (Enderlein). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011.

Mesopsocidae

Mesopsocus helveticus Lienhard. Czech Republic (I): Holusa, 2009. Finland (I): Kanervo, 2010.

Mesopsocus immunis (Stephens). Germany (I): Günther & Lienhard, 2011.

Mesopsocus laticeps (Kolbe). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011.

Mesopsocus unipunctatus (Müller). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011. Greece (I): Hollier *et al.*, 2011.

Psoculus neglectus (Roesler). Germany (I): Günther & Lienhard, 2011.

Hemipsocidae

Hemipsocus spec. Dominica (IV): Garcia Aldrete, 2011a.

Hemipsocus africanus Enderlein. Colombia (V): Sarria, 2011.

Psocidae

Molecular phylogeny: Yoshizawa *et al.*, 2011.

Definition of three subfamilies (Kaindipsocinae, Amphigerontiinae, Psocinae), based on morphology of male terminalia and molecular analysis: Yoshizawa *et al.*, 2011.

Amphigerontia bifasciata (Latreille). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011.

Amphigerontia contaminata (Stephens). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011.

Amphigerontia intermedia (Tetens). Finland (I): Kanervo, 2010; Kanervo & Söderman, 2010 (species on Red List).

Atlantopsocus adustus (Hagen). Great Britain (I): Alexander, 2009b. Azores (II): Baz, 2010.

Blaste spec. Dominica (IV): Garcia Aldrete, 2011a.

Blaste basilewskyi Badonnel. Saint Helena (II): Mendel *et al.*, 2008; Lienhard & Ashmole, 2011 (figs).

*Blaste helenae** Lienhard, 2011; *in*: Lienhard & Ashmole, 2011: 439. Saint Helena (II).

Blaste conspurcata (Rambur). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011. Greece (I): Hollier *et al.*, 2011.

'*Blaste*' *lunulata* species group. Assigned to subfamily Kaindipsocinae, morphology of male terminalia discussed: Yoshizawa *et al.*, 2011.

Blaste quadrimaculata (Latreille). Germany (I): Günther & Lienhard, 2011. Great Britain (I): Alexander, 2008c.

Clematosigma Enderlein. Assigned to subfamily Kaindipsocinae, morphology of male terminalia discussed: Yoshizawa *et al.*, 2011.

Hyalopsocus contrarius (Reuter). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011.

Hyalopsocus morio (Latreille). Germany (I): Günther & Lienhard, 2011.

Indiopsocus spec. Dominica (IV): Garcia Aldrete, 2011a.

*Indiopsocus mendeli** Lienhard, 2011; *in*: Lienhard & Ashmole, 2011: 441. Ascension Island (II).

Kaindipsocus Smithers & Thornton. Assigned to subfamily Kaindipsocinae, morphology of male terminalia discussed: Yoshizawa *et al.*, 2011.

Kimunpsocus chubsugulensis (Günther). Mongolia (VIII): Varkonyi & Lienhard, 2011: 99 (**from** *Ptycta*).

Kimunpsocus flavonimbatus (Rostock). Finland (I): Varkonyi & Lienhard, 2011: 97 (**from** *Psocus*); description of male; habitat choice and distribution. Finland (I): Kanervo, 2010 (as *Psocidus flavonimbatus*); Kanervo & Söderman, 2010 (species on Red List, as *Psocidus flavonimbatus*). Eastern Russia (VIII): Varkonyi & Lienhard, 2011: 101 (female, tentative identification).

Lasiopsocus Enderlein. Assigned to subfamily Kaindipsocinae, morphology of male terminalia discussed: Yoshizawa *et al.*, 2011.

Loensia fasciata (Fabricius). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011. Great Britain (I): Alexander, 2008c, 2009b. Greece (I): Hollier *et al.*, 2011.

Loensia pearmani Kimmins. Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011. Greece (I): Hollier *et al.*, 2011.

Loensia variegata (Latreille). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011. Great Britain (I): Alexander, 2008c.

Longivalvus spec. Morph.: Yoshizawa, 2011b (hindwing base structure).

Metylophorus spec. Dominica (IV): Garcia Aldrete, 2011a.

Metylophorus nebulosus (Stephens). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011. Greece (I): Hollier *et al.*, 2011.

Neopsocopsis hirticornis (Reuter). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011.

Neopsocus rhenanus Kolbe. Germany (I): Günther & Lienhard, 2011. Greece (I): Hollier *et al.*, 2011.

Oreopsocus montanus (Kolbe). Germany (I): Günther & Lienhard, 2011. Greece (I): Hollier *et al.*, 2011.

Psococerastis gibbosa (Sulzer). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011.

Psocus bipunctatus (Linnaeus). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011. Greece (I): Hollier *et al.*, 2011.

Ptycta spec. Dominica (IV): Garcia Aldrete, 2011a.

Sigmatoneura Enderlein. Revised diagnosis, biogeography, key to Chinese species: Liu Luxi *et al.*, 2011b.

*Sigmatoneura aquilis** Liu Luxi, Li Fasheng & Liu Zhiqi 2011b: 38. China (VIII).

*Sigmatoneura pinbiensis** Liu Luxi, Li Fasheng & Liu Zhiqi 2011b: 34. China (VIII).

Steleops Enderlein. Key to South American species: Gonzalez *et al.*, 2011a. Key to Neotropical species: Gonzalez *et al.*, 2011b.

*Steleops albertoneto** Gonzalez, Garcia Aldrete & Carrejo, 2011b: 32. Brazil (V).

*Steleops buitrensis** Gonzalez, Garcia Aldrete & Carrejo, 2011a: 23. Colombia (V). NOTE: the specific name is not a noun in apposition but an adjective (see "Etymology", p. 26).

*Steleops cashiriariensis** Gonzalez, Garcia Aldrete & Carrejo, 2011b: 33. Peru (V).

*Steleops chamelaensis** Gonzalez, Garcia Aldrete & Carrejo, 2011b: 35. Mexico (IV).

*Steleops cuzcoensis** Gonzalez, Garcia Aldrete & Carrejo, 2011b: 36. Peru (V).

*Steleops machupicchuensis** Gonzalez, Garcia Aldrete & Carrejo, 2011b: 38. Peru (V).

*Steleops manizalensis** Gonzalez, Garcia Aldrete & Carrejo, 2011b: 41. Colombia (V).

*Steleops mendivili** Gonzalez, Garcia Aldrete & Carrejo, 2011b: 44. Colombia (V).

*Steleops plenitudensis** Gonzalez, Garcia Aldrete & Carrejo, 2011b: 47. Colombia (V).

Steleops pulcher New. Colombia (V): Gonzalez *et al.*, 2011a.

*Steleops rioblancoensis** Gonzalez, Garcia Aldrete & Carrejo, 2011b: 50. Colombia (V).

*Steleops thorntoni** Gonzalez, Garcia Aldrete & Carrejo, 2011b: 52. Mexico (IV).
Symbiopsocus Li Fasheng. Biogeography and key to species: Liu Luxi *et al.*, 2011a.
*Symbiopsocus furcatus** Liu Luxi, Li Fasheng & Liu Zhiqi 2011a: 64. China (VIII).
Tanystigma Smithers. Assigned to subfamily Kaindipsocinae, morphology of male terminalia discussed: Yoshizawa *et al.*, 2011.
Trichadenotecnum castum Betz. Azores (II): Baz, 2010.
Trichadenotecnum circularoides Badonnel. Azores (II): Baz, 2010.
Trichadenotecnum germanicum Roesler. Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011.
Trichadenotecnum incognitum Roesler. Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011.
Trichadenotecnum innuptum Betz. Greece (I): Hollier *et al.*, 2011.
Trichadenotecnum majus (Kolbe). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011.
Trichadenotecnum sexpunctatum (Linnaeus). Finland (I): Kanervo, 2010. Germany (I): Günther & Lienhard, 2011. Greece (I): Hollier *et al.*, 2011. Azores (II): Baz, 2010.

Myopsocidae

Lichenomima spec. Dominica (IV): Garcia Aldrete, 2011a.
Myopsocus eatoni McLachlan. Azores (II): Baz, 2010. Saint Helena (II): Mendel *et al.*, 2008; Lienhard & Ashmole, 2011.

4. Additions to the Bibliography

NOTE: Complete bibliographical references to publications cited in the present paper, which are not listed here, can be found in the World Bibliography (Lienhard & Smithers, 2002: 493-664) or in Parts 1 to 10 of the "Additions", see **Synthesis of Parts 1-10**: http://www.ville-ge.ch/mhng/psocoptera/divers/synthesis_add_1_10.pdf

Remarks: Papers with two authors are listed in alphabetical order of second authors after the chronological list of papers with the first author as unique author. Papers with more than two authors (i. e. "first author *et al.*"-papers) are listed chronologically after the two-author papers. References to papers published in the same year are distinguished by suffix-letters added to the publication year. No cross-references to co-authors or editors are given.

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EDITORIAL

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