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Psocid News

The Psocidologists' Newsletter

No. 18 (Feb 28, 2016)



Echmepteryx madagascariensis (Okinawa, Japan)

ADDITIONS AND CORRECTIONS (PART 15) TO LIENHARD & SMITHERS, 2002: "PSOCOPTERA (INSECTA) – WORLD CATALOGUE AND BIBLIOGRAPHY"

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1. Introduction

This is the 15th part of a series of "Additions and Corrections to the World Catalogue and Bibliography" (Lienhard & Smithers, 2002) published in "Psocid News". Parts 1-14 were published in Psocid News no. 4-17 (see below); a **Synthesis of Parts 1-10** is available online at the Geneva Museum's homepage:

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 (see pp. xl-xli). Families (and higher categories, if mentioned) are listed according to Table 1 of Lienhard & Smithers (2002), except for changes published since. 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 cited in the combination used by Lienhard & Smithers (2002), if not an explicit change of combination (or a new synonymy) has been published since.

The "Corrections" refer to the pages of Lienhard & Smithers (2002) 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 (see 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 ending to the grammatical gender of the genus name).

2. List of countries mentioned in the "Additions and Corrections to the World Catalogue" (Parts 1-15)

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 15 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 (**A**), mainly from amber. 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://hdl.handle.net/2115/35519> or in the **Synthesis of Parts 1-10** available 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 – Psocid News, no. 14 (2012): 1-13 (= Lienhard, 2012a)
- Part 12 – Psocid News, no. 15 (2013): 1-21 (= Lienhard, 2013)
- Part 13 – Psocid News, no. 16 (2014): 1-20 (= Lienhard, 2014)
- Part 14 – Psocid News, no. 17 (2015): 1-17 (= Lienhard, 2015)
- Part 15 – Psocid News, no. 18 (2016) (= present issue)

(I) Albania (Part 14), Austria (Parts 1, 3, 4, 5, 6, 8, 9), Bahrain (Part 8), Belgium (Parts 3, 6, 8, 10), Bosnia-Herzegovina (Part 14), Bulgaria (Parts 8, 14), Croatia (Parts 6, 7, 11, 12), Cyprus (Part 11), Czech Republic (Parts 1, 4, 5, 6, 7, 8, 10, 11, 13, 14), Denmark (Parts 10, 12), Egypt (Part 6), Europe (Parts 10, 11, 12), Finland (Parts 1, 7, 10, 11, 12, 13, 15), France (Parts 1, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14), Germany (Parts 1, 3, 4, 5, 7, 8, 10, 11, 12, 14), Great Britain (Parts 1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15), Greece (Parts 5, 6, 11, 14), Greenland (Part 15), Hungary (Parts 1, 3, 10), Iceland (Part 10), Iran (Parts 6, 8, 15), Ireland (Parts 6, 9, 13), Israel (Parts 4, 6, 8, 11, 15), Italy (Parts 1, 3, 5, 6, 7, 8, 9, 10), Kosovo (Part 14), Lebanon (Parts 6, 7, 9, 10, 11, 13, 14), Lithuania (Part 8), Luxembourg (Parts 1, 3, 7, 8, 10, 13), Macedonia (Part 14), Malta (Part 15), Montenegro (Part 14), Morocco (Parts 10, 15), Netherlands (Parts 4, 7, 9, 11, 14), Norway (Parts 4, 10, 13), Oman (Part 8), Poland (Part 13), Portugal (Parts 6, 7), Romania (Parts 10, 14), Russia (Parts 6, 8, 10, 12, 13, 14), Saudi Arabia (Parts 8, 15), Serbia (Part 14), Slovakia (Parts 1, 11, 13), Spain (Parts 1, 5, 7, 8, 9, 11, 12, 13), Sweden (Part 8, 10), Switzerland (Parts 1, 3, 4, 6, 7, 8, 11, 12), Turkey (Parts 5, 10, 15), UAE (Parts 8, 9), Ukraine (Part 6), Yemen (Parts 4, 8)

(II) Ascension Island (Parts 11, 15), Azores (Parts 5, 11), Canary Islands (Parts 1, 4, 5, 10, 11), Cape Verde Islands (Parts 5, 11, 15), Gough Island (Parts 5, 6), Madeira (Parts 5, 8, 15), Saint Helena (Parts 5, 11), Selvagens Islands (Parts 1, 8)

(III) Bahamas (Part 13), Canada (Parts 4, 6, 7, 8, 13), North America (Parts 11, 12), USA (Parts 1, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15)

(IV) Antigua (Part 15), Aruba (Part 15), Belize (Parts 1, 4, 6, 8, 9, 10, 15), Costa Rica (Parts 1, 6, 8, 15), Cuba (Parts 6, 11), Curaçao (Part 15), Dominica (Parts 5, 6, 11), Dominican Republic (Parts 4, 6, 7, 8, 12, 13, 14), Guadeloupe (Part 15), Guatemala (Parts 1, 4, 7, 8, 11, 15), Haiti (Parts 1, 4), Hispaniola (Part 10), Honduras (Parts 8, 15), Jamaica (Parts 7, 8, 9, 15), Mexico (Parts 1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14,

15), Middle America (Part 11), Nicaragua (Parts 1, 3, 4, 6, 7, 8, 13), Panama (Parts 4, 6, 8), Puerto Rico (Parts 1, 7, 10, 13), Trinidad (Part 1)

(V) Argentina (Parts 3, 4, 8, 9, 14), Bolivia (Parts 1, 5, 9, 10), Brazil (Parts 1, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15), Chile (Parts 1, 4, 6, 8), Colombia (Parts 1, 10, 11, 12, 13, 14, 15), Ecuador (Parts 1, 6, 8, 13, 15), Paraguay (Parts 13, 14, 15), Peru (Parts 1, 5, 6, 8, 9, 10, 11, 12, 13, 14), Suriname (Part 10), Venezuela (Parts 1, 4, 6, 7, 8, 10, 15)

(VI) Ghana (Part 4), Guinea (Part 1), Kenya (Parts 4, 15), Liberia (Part 15), Madagascar (Part 5), Malawi (Part 3), Mozambique (Part 15), Namibia (Parts 1, 6, 7, 8, 10), Rwanda (Part 15), Senegal (Part 15), South Africa (Parts 3, 6, 7, 8, 11), Tanzania (Parts 3, 4), Togo (Part 15), Uganda (Part 6)

(VII) Reunion (Part 15)

(VIII) Brunei (Parts 5, 6), China (Parts 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15), Hong Kong (Part 5), India (Parts 3, 5, 6, 7, 11, 15), Indonesia (Parts 1, 3, 5, 6, 10, 15), Japan (Parts 1, 4, 6, 7, 8, 9, 10, 12), Kazakhstan (Part 13), Kuril Islands (Part 4), Kyrgyzstan (Part 5), Laos (Parts 5, 6), Malaysia (Parts 1, 5, 6, 8, 10, 14, 15), Myanmar (Parts 6, 8, 13, 14), Nepal (Part 7), New Guinea (Parts 3, 5, 8), Pakistan (Part 14), Philippines (Parts 3, 5, 6, 14), Russia (Parts 1, 10, 11), SE-Asia (Part 7), Singapore (Parts 5, 14, 15), Sri Lanka (Parts 4, 6), Taiwan (Parts 1, 6, 7, 8, 13, 15), Thailand (Parts 1, 4, 5, 6, 9, 11, 15), USSR (Parts 4, 9), Vietnam (Parts 4, 5, 6, 8, 13, 14, 15)

(IX) Australia (Parts 1, 4, 5, 6, 7, 8, 10, 12, 13, 14), Lord Howe Island (Parts 4, 7), New Zealand (Parts 1, 4, 13), Subantarctic islands (Part 13), Tasmania (Part 9)

(X) Easter Island (Part 13), Fiji (Parts 8, 15), Galapagos (Parts 5, 12), Hawaii (Parts 8, 13, 14), New Caledonia (Part 12)

(A) Amber and Copal (or other fossils) (Parts 1, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15)

3. Additions to the Catalogue

Psocodea

Li Hu *et al.*, 2015 (phylogeny).

Archipsyllidae

Cicadellium dipsas Westwood, 1854. Species assigned to Psocoptera by Coram & Jepson, 2012: 41. Great Britain (I), impression fossil from Early Cretaceous (A).

Psocoptera

Pictet, 1836 (classification). Balazuc, 1951 (teratology). Carmo, 2009: cave psocids, Brazil (V). Beutel *et al.*, 2014 (morphology and phylogeny). Araujo de & Peixoto, 2015: cave fauna, Brazil (V). Collins, 2015: predators, Venezuela (V). Dickey *et al.*, 2015 (mitochondrial genome). Gautam *et al.*, 2015 (egg morphology). He Run-Lian *et al.*, 2015: soil fauna, China (VIII). Lienhard, 2015 (Additions to the World Catalogue and Bibliography, Part 14). Liznarova & Pekar, 2015 (spider as predator). Matsumura *et al.*, 2015 (morphology, phylogenetics). Perlman *et al.*, 2015 (bacterial endosymbionts). Polilov, 2015 (egg parasitoid of psocid, *Dicopomorpha echmepterygis* Mockford, is the smallest insect). Querner, 2015 (pests in museums etc.). Stejskal *et al.*, 2015 (historical development of pest status). Stigenberg *et al.*, 2015 (Euphorinae as parasitoids). Studinski & Hartman, 2015 (psocids as food source of stream salmonids). Wang Xiaoyi *et al.*, 2015 (wing polymorphism). Yoshizawa, 2015a (Newsletter). Yoshizawa, 2015b (Psocoptera in the public).

Trogiidae

Cerobasis annulata (Hagen). Malta (I): Lienhard & Mifsud, 2015.

Cerobasis guestfalica (Kolbe). Malta (I): Lienhard & Mifsud, 2015.

Lepinotus patruelis Pearman. Greenland (I): Svensson, 2015.

Lepinotus reticulatus Enderlein. Malta (I): Lienhard & Mifsud, 2015. Pest: Arif *et al.*, 2015; Athanassiou *et al.*, 2015 (control); Diaz-Montano *et al.*, 2015 (monitoring).

Trogium pulsatorium (Linnaeus). Greenland (I): Svensson, 2015.

Psyllipsocidae

South American species (checklist and key) (V): Lienhard & Ferreira, 2015.

Psocathropos lachlani Ribaga. Further description: Lienhard & Ferreira, 2015: 130. Israel, Morocco (I); Ascension Island, Cape Verde Islands, Madeira (II); Guadeloupe, Guatemala, Jamaica (IV); Brazil,

Paraguay (V); Liberia, Mozambique, Rwanda, Togo (VI); Reunion (VII); India, Indonesia, Malaysia, Singapore, Thailand (VIII); Fiji (X).

Psocathropos termitorum (Townsend). **Synonymy:** Lienhard & Ferreira, 2015: 130.

Psocathropos astizi (Brèthes). **Synonymy:** Lienhard & Ferreira, 2015: 130.

Psocathropos pilipennis (Enderlein). Further description: Lienhard & Ferreira, 2015: 132. Curaçao, Honduras (IV); Brazil (V); Malaysia, Singapore, Thailand, Vietnam (VIII).

Psyllipsocus angustipennis Lienhard, 2014. Brazil (V): Lienhard & Ferreira, 2015.

Psyllipsocus clunioventralis Lienhard, 2014. Brazil (V): Lienhard & Ferreira, 2015.

Psyllipsocus clunjunctus Lienhard, 2013. Brazil (V): Lienhard & Ferreira, 2015.

Psyllipsocus didymus Lienhard, 2014. Brazil (V): Lienhard & Ferreira, 2015.

Psyllipsocus falcifer Lienhard, 2014. Brazil (V): Lienhard & Ferreira, 2015.

Psyllipsocus fuscistigma Lienhard, 2014. Brazil (V): Lienhard & Ferreira, 2015.

Psyllipsocus marconii Lienhard, 2014. Brazil (V): Lienhard & Ferreira, 2015.

Psyllipsocus proximus Lienhard, 2014. Brazil (V): Lienhard & Ferreira, 2015.

Psyllipsocus punctulatus Lienhard, 2014. Brazil (V): Lienhard & Ferreira, 2015.

Psyllipsocus radiopictus Lienhard, 2014. Brazil (V): Lienhard & Ferreira, 2015.

Psyllipsocus ramburii Selys-Longchamp. Further description: Lienhard & Ferreira, 2015: 123. Brazil (V).

Psyllipsocus variabilis Badonnel. **Synonymy:** Lienhard & Ferreira, 2015: 123.

Psyllipsocus dubius Badonnel. **Synonymy:** Lienhard & Ferreira, 2015: 123.

Psyllipsocus serrifer Lienhard, 2013. Brazil (V): Lienhard & Ferreira, 2015.

Psyllipsocus similis Lienhard, 2013. Brazil (V): Lienhard & Ferreira, 2015.

Psyllipsocus spinifer Lienhard, 2014. Brazil (V): Lienhard & Ferreira, 2015.

Psyllipsocus subtilis Lienhard, 2014. Brazil (V): Lienhard & Ferreira, 2015.

Psyllipsocus thaidis Lienhard, 2014. Brazil (V): Lienhard & Ferreira, 2015.

Psyllipsocus yucatan Gurney. Further description: Lienhard & Ferreira, 2015: 126. Antigua, Aruba, Jamaica (IV); Brazil (V); Kenya, Senegal (VI); Thailand (VIII).

Psyllipsocus collarti Badonnel. **Synonymy:** Lienhard & Ferreira, 2015: 126.

Psyllipsocus decui Badonnel. **Synonymy:** Lienhard & Ferreira, 2015: 126.

Prionoglarididae

South American species (checklist and key) (V): Lienhard & Ferreira, 2015.

Neotroglia aurora Lienhard, 2010. Brazil (V): Lienhard & Ferreira, 2015.

Neotroglia brasiliensis Lienhard, 2010. Brazil (V): Lienhard & Ferreira, 2015.

Neotroglia curvata Lienhard & Ferreira, 2013a. Brazil (V): Lienhard & Ferreira, 2015.

Neotroglia truncata Lienhard, 2010. Brazil (V): Lienhard & Ferreira, 2015.

Liposcelididae

*Belaphopsocus groehni** Mockford, 2015: 208. Costa Rica (IV), Early Miocene amber (A).

Liposcelis bostrychophila Badonnel. Iran (I): Jarayani *et al.*, 2014; Gol *et al.*, 2015. Malta (I): Lienhard & Mifsud, 2015. Turkey (I): Bageci *et al.*, 2014 (pest in grain warehouses). USA: Arizona (III): Yang Qianqian *et al.*, 2015 (sexually reproducing colony). Biol.: Gillespie *et al.*, 2015 (*Rickettsia felis* as an obligate mutualist); Li, Y.-Y. *et al.*, 2015 (*Wolbachia* as bacterial symbiont); Yang Qianqian *et al.*, 2015 (sexually reproducing colony; *Rickettsia* present in parthenogenetic individuals). Pest: Arif *et al.*, 2015 (molecular discrimination); Athanassiou *et al.*, 2015 (control); Li Heng Yu *et al.*, 2015 (control); Liu Xin Chao & Liu Zhi Long 2015 (control).

Liposcelis brunnea Motschulsky. Pest: Arif *et al.*, 2015 (molecular discrimination); Diaz-Montano *et al.*, 2015 (monitoring).

Liposcelis compacta Lienhard. Malta (I): Lienhard & Mifsud, 2015.

Liposcelis corrodens (Heymons). Iran (I): Gol *et al.*, 2015. Pest: Arif *et al.*, 2015; Diaz-Montano *et al.*, 2015 (monitoring).

Liposcelis decolor (Pearman). Iran (I): Gol *et al.*, 2015. Malta (I): Lienhard & Mifsud, 2015. Pest: Arif *et al.*, 2015 (molecular discrimination); Athanassiou *et al.*, 2015 (control); Diaz-Montano *et al.*, 2015 (monitoring).

Liposcelis divinatoria (Müller). Greenland (I): Svensson, 2015. Iran (I): Gol *et al.*, 2015.

Liposcelis entomophila (Enderlein). Pest: Arif *et al.*, 2015; Athanassiou *et al.*, 2015 (control); Diaz-Montano *et al.*, 2015 (monitoring).

Liposcelis fusciceps Badonnel. Pest: Arif *et al.*, 2015.

Liposcelis keleri Günther. Iran (I): Gol *et al.*, 2015.

Liposcelis obscura Broadhead. Pest: Arif *et al.*, 2015 (molecular discrimination).

Liposcelis paeta Pearman. Iran (I): Jarayani *et al.*, 2014. Pest: Arif *et al.*, 2015; Athanassiou *et al.*, 2015 (control); Diaz-Montano *et al.*, 2015 (monitoring).
Liposcelis pearmani Lienhard. Malta (I): Lienhard & Mifsud, 2015. Pest: Arif *et al.*, 2015 (molecular discrimination).
Liposcelis rufa Broadhead. Pest: Arif *et al.*, 2015.

Amphipsocidae

Kolbia quisquiliarum Bertkau. Finland (I): Salmela *et al.*, 2015.

Stenopsocidae

Graphopsocus cruciatus (Linnaeus). Finland (I): Salmela *et al.*, 2015. Iran (I): Aghadokht *et al.*, 2015; Gol *et al.*, 2015. USA (III): Naughton *et al.*, 2015.
Stenopsocus Hagen. Diagnosis: Liang Feiyang *et al.*, 2015: 194.
Stenopsocus aphidiformis Enderlein. Redescription: Liang Feiyang *et al.*, 2015: 195. Taiwan (VIII).
Stenopsocus externus Banks. Redescription: Liang Feiyang *et al.*, 2015: 199. China, Taiwan, Vietnam (VIII).
Stenopsocus formosanus Banks. Redescription: Liang Feiyang *et al.*, 2015: 202. Taiwan (VIII).
Stenopsocus lachlani Kolbe. Finland (I): Salmela *et al.*, 2015.
Stenopsocus makii Takahashi. Redescription: Liang Feiyang *et al.*, 2015: 204. Taiwan (VIII).
Stenopsocus niger Enderlein. Redescription: Liang Feiyang *et al.*, 2015: 197. Taiwan (VIII).
Stenopsocus tibialis Banks. Redescription: Liang Feiyang *et al.*, 2015: 206. Taiwan (VIII).

Dasydemellidae

Teliapsocus spec. USA (III): Naughton *et al.*, 2015.
Teliapsocus conterminus (Walsh). USA (III): Naughton *et al.*, 2015.

Paracaeciliidae

Enderleinella obsoleta (Stephens). Finland (I): Salmela *et al.*, 2015.

Caeciliusidae

Caecilius fuscopterus (Latreille). Finland (I): Salmela *et al.*, 2015. Great Britain (I): Alexander, 2014.
Epicaecilius pilipennis (Lienhard). Great Britain (I): Alexander, 2014.
Stenocaecilius caboverdensis (Meinander). Malta (I): Lienhard & Mifsud, 2015.
Valenzuela spec. Finland (I): Salmela *et al.*, 2015.
Valenzuela burmeisteri (Brauer). Finland (I): Salmela *et al.*, 2015. Malta (I): Lienhard & Mifsud, 2015.
Valenzuela corsicus (Kolbe). Malta (I): Lienhard & Mifsud, 2015.
Valenzuela despaxi (Badonnel). Finland (I): Salmela *et al.*, 2015.
Valenzuela flavidus (Stephens). Finland (I): Salmela *et al.*, 2015.
Valenzuela gynapterus (Tetens). Finland (I): Salmela *et al.*, 2015.
Valenzuela piceus (Kolbe). Finland (I): Salmela *et al.*, 2015.

Peripsocidae

Peripsocus alboguttatus (Dalman). Finland (I): Salmela *et al.*, 2015.
Peripsocus didymus Roesler. Finland (I): Salmela *et al.*, 2015.
Peripsocus milleri (Tillyard). Great Britain (I): Alexander, 2014.
Peripsocus stagnivagus Chapman. Description of first Palaearctic male: Lienhard & Mifsud, 2015: 256. Malta (I).
Peripsocus bivari Baz. **Synonymy:** Lienhard & Mifsud, 2015: 256.
Peripsocus leleupi Badonnel. **Synonymy:** Lienhard & Mifsud, 2015: 256.

Ectopsocidae

Ectopsocopsis cryptomeriae (Enderlein). Iran (I): Aghadokht *et al.*, 2015; Gol *et al.*, 2015.
Ectopsocus briggsi McLachlan. Iran (I): Gol *et al.*, 2015. Malta (I): Lienhard & Mifsud, 2015.
Ectopsocus californicus (Banks). USA (III): Naughton *et al.*, 2015.
Ectopsocus meridionalis Ribaga. Malta (I): Lienhard & Mifsud, 2015.
Ectopsocus strauchi Enderlein. Malta (I): Lienhard & Mifsud, 2015.
Ectopsocus vachoni Badonnel. Malta (I): Lienhard & Mifsud, 2015. USA (III): Naughton *et al.*, 2015.

Elipsocidae

- Cuneopalpus cyanops* (Rostock). Finland (I): Salmela *et al.*, 2015. Malta (I): Lienhard & Mifsud, 2015.
Elipsocus spec. Finland (I): Salmela *et al.*, 2015. USA (III): Naughton *et al.*, 2015.
Elipsocus abdominalis Reuter. Finland (I): Salmela *et al.*, 2015. Malta (I): Lienhard & Mifsud, 2015.
Elipsocus hyalinus (Stephens). Malta (I): Lienhard & Mifsud, 2015. USA (III): Naughton *et al.*, 2015.
Elipsocus pumilis (Hagen). Finland (I): Salmela *et al.*, 2015 (as *Elipsocus* cf. *pumilis*).
Hemineura dispar Tetens. Finland (I): Salmela *et al.*, 2015.
Reuterella helvimacula (Enderlein). Finland (I): Salmela *et al.*, 2015.

Lachesillidae

- Lachesilla* Westwood. Key to several species of the *pedicularia* group and their distribution: Saenz Manchola *et al.*, 2015.
Lachesilla spec. (spec. Q-7 of species group Q). Mexico (IV): Garcia Aldrete, 2015a.
Lachesilla abiesicola Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2015a.
Lachesilla asymmetriproctus Garcia Aldrete, 2008b. Colombia (V): Saenz Manchola *et al.*, 2015.
Lachesilla bernardi Badonnel. Malta (I): Lienhard & Mifsud, 2015.
Lachesilla chamula Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2015b.
*Lachesilla contrerasi** Garcia Aldrete, 2015a: 10. Mexico (IV).
Lachesilla curviforceps Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2015b.
Lachesilla curvipila Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2015a.
Lachesilla dimorpha Lienhard. Malta (I): Lienhard & Mifsud, 2015.
Lachesilla dispariforceps Mockford. Mexico, Guatemala (IV): Garcia Aldrete, 2015b.
Lachesilla dividiforceps Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2015b.
Lachesilla dona Sommerman. Mexico (IV): Garcia Aldrete, 2015a.
Lachesilla fuscipalpis Badonnel. Mexico (IV): Garcia Aldrete, 2015a.
*Lachesilla gomezfariasensis** Garcia Aldrete, 2015b: 153. Mexico (IV).
Lachesilla gurneyi Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2015a.
Lachesilla hermosa Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2015b.
*Lachesilla huitoto** Saenz Manchola, Garcia Aldrete & Gonzalez Obando, 2015: 513. Colombia (V).
Lachesilla ixtlanensis Garcia Aldrete & Casasola Gonzalez, 2012. Mexico (IV): Garcia Aldrete, 2015b.
*Lachesilla jacalaensis** Garcia Aldrete, 2015b: 154. Mexico (IV).
Lachesilla lachataoensis Garcia Aldrete & Casasola Gonzalez, 2012. Mexico (IV): Garcia Aldrete, 2015b.
*Lachesilla lacustrina** Garcia Aldrete, 2015b: 154. Mexico (IV).
Lachesilla michiliensis Garcia Aldrete. Mexico (IV), USA: Texas (III): Garcia Aldrete, 2015b.
*Lachesilla moroni** Garcia Aldrete, 2015b: 154. Mexico (IV).
Lachesilla neoleonensis Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2015b.
*Lachesilla omitlanensis** Garcia Aldrete, 2015b: 155. Mexico (IV).
Lachesilla pedicularia (Linnaeus). Finland (I): Salmela *et al.*, 2015. Greenland (I): Svensson, 2015. Malta (I): Lienhard & Mifsud, 2015. Mexico (IV): Garcia Aldrete, 2015a.
Lachesilla picticeps Mockford. Mexico (IV): Garcia Aldrete, 2015a, 2015b.
Lachesilla picticepsoides Garcia Aldrete. Mexico (IV), Colombia, Ecuador (V): Garcia Aldrete, 2015b.
Lachesilla punctata (Banks). Mexico (IV): Garcia Aldrete, 2015a.
*Lachesilla putumayensis** Saenz Manchola, Garcia Aldrete & Gonzalez Obando, 2015: 512. Colombia (V).
Lachesilla quercus (Kolbe). Finland (I): Salmela *et al.*, 2015. Iran (I): Gol *et al.*, 2015.
Lachesilla querpina Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2015b.
Lachesilla regiomontana Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2015b.
Lachesilla reyesi Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2015a, 2015b.
Lachesilla silvatica Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2015b.
*Lachesilla simojovelensis** Garcia Aldrete, 2014c: 33. Mexico (IV).
Lachesilla tectorum Badonnel. Mexico (IV): Garcia Aldrete, 2015a.
Lachesilla texcocana Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2015a.
Lachesilla tuita Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2015b.
Lachesilla unsijensis Garcia Aldrete & Casasola Gonzalez, 2012. Mexico (IV): Garcia Aldrete, 2015b.
Lachesilla zuninoi Garcia Aldrete, 2014b. Mexico (IV): Garcia Aldrete, 2015b.
Lachesilla zuninoides Garcia Aldrete, 2014b. Mexico (IV): Garcia Aldrete, 2015b.
Prolachesilla mexicana Mockford & Sullivan. Mexico (IV): Garcia Aldrete, 2015a.

Mesopsocidae

Mesopsocus fuscifrons Meinander. Malta (I): Lienhard & Mifsud, 2015.
Mesopsocus helveticus Lienhard. Finland (I): Salmela *et al.*, 2015.
Mesopsocus unipunctatus (Müller). Finland (I): Salmela *et al.*, 2015.

Philotarsidae

Philotarsus picicornis (Fabricius). Finland (I): Salmela *et al.*, 2015.

Trichopsocidae

Trichopsocus brincki Badonnel. Great Britain (I): Alexander, 2014.
Trichopsocus clarus (Banks). Great Britain (I): Alexander, 2014. Malta (I): Lienhard & Mifsud, 2015.
Trichopsocus dali (McLachlan). Iran (I): Gol *et al.*, 2015 (as *T. dali*?). Malta (I): Lienhard & Mifsud, 2015.

Ptiloneuridae

Family diagnosis and key to genera: Silva Neto & Garcia Aldrete, 2015: 169.

*Brasineura*** Silva Neto & Garcia Aldrete, 2015: 170. Gender: F. Type species: *Brasineura diamantina* Silva Neto & Garcia Aldrete.

*Brasineura diamantina** Silva Neto & Garcia Aldrete, 2015: 170. Brazil (V).

*Brasineura trogliphilica** Silva Neto & Garcia Aldrete, 2015: 170. Brazil (V).

*Euplocania bonaverensis** Gonzalez Obando, Garcia Aldrete & Carrejo Gironza, 2015: 508. Colombia (V).

*Euplocania caliensis** Gonzalez Obando, Garcia Aldrete & Carrejo Gironza, 2015: 510. Colombia (V).

*Euplocania daguaensis** Gonzalez Obando, Garcia Aldrete & Carrejo Gironza, 2015: 513. Colombia (V).

*Euplocania danubiana** Gonzalez Obando, Garcia Aldrete & Carrejo Gironza, 2015: 516. Colombia (V).

*Euplocania guentherbuchi** Gonzalez Obando, Garcia Aldrete & Carrejo Gironza, 2015: 519. Colombia (V).

*Euplocania macarenaensis** Gonzalez Obando, Garcia Aldrete & Carrejo Gironza, 2015: 522. Colombia (V).

*Euplocania vallecaucana** Gonzalez Obando, Garcia Aldrete & Carrejo Gironza, 2015: 524. Colombia (V).

Triplocania Roesler. Key to the males of some species: Silva Neto *et al.*, 2015: 114.

*Triplocania bravo** Silva Neto, Rafael & Garcia Aldrete, 2015: 104. Ecuador (V).

*Triplocania erwini** Silva Neto, Rafael & Garcia Aldrete, 2015: 107. Ecuador (V).

*Triplocania lamasoides** Silva Neto, Rafael & Garcia Aldrete, 2015: 109. Brazil (V).

*Triplocania trifida** Silva Neto, Rafael & Garcia Aldrete, 2015: 112. Brazil (V).

Epipsocidae

Key to genera found in Colombia (V): Garcia Aldrete *et al.*, 2015: 166.

*Anastomopsocus*** Garcia Aldrete, Mendivil Nieto & Gonzalez Obando, 2015: 163. Gender: M. Type species: *Anastomopsocus vallecaucanus* Garcia Aldrete, Mendivil Nieto & Gonzalez Obando.

*Anastomopsocus vallecaucanus** Garcia Aldrete, Mendivil Nieto & Gonzalez Obando, 2015: 164. Colombia (V).

Bertkauia lucifuga (Rambur). Malta (I): Lienhard & Mifsud, 2015.

Edmockfordia Garcia Aldrete, 2009a. Revised diagnosis and key to species: Mendivil Nieto *et al.*, 2015: 53.

*Edmockfordia calderonae** Mendivil Nieto, Gonzalez Obando & Garcia Aldrete, 2015: 46. Colombia (V).

Edmockfordia chiquibulensis Garcia Aldrete, 2009a. Description of female: Mendivil Nieto *et al.*, 2015: 51. Belize (IV).

*Edmockfordia saenzi** Mendivil Nieto, Gonzalez Obando & Garcia Aldrete, 2015: 48. Colombia (V).

*Periepipsocus*** Garcia Aldrete, Mendivil Nieto & Gonzalez Obando, 2015: 165. Gender: M. Type species: *Periepipsocus caliensis* Garcia Aldrete, Mendivil Nieto & Gonzalez Obando.

*Periepipsocus caliensis** Garcia Aldrete, Mendivil Nieto & Gonzalez Obando, 2015: 165. Colombia (V).

Myopsocidae

Myopsocus spec. USA (III): Naughton *et al.*, 2015.

Myopsocus eatoni McLachlan. Malta (I): Lienhard & Mifsud, 2015.

Psocidae

Amphigerontia spec. Finland (I): Salmela *et al.*, 2015.

Amphigerontia bifasciata (Latreille). Finland (I): Salmela *et al.*, 2015. USA (III): Naughton *et al.*, 2015.

Amphigerontia contaminata (Stephens). Finland (I): Salmela *et al.*, 2015.

Atlantopsocus adustus (Hagen). Great Britain (I): Alexander, 2014.

Blaste arabica New. Saudi Arabia (I): El-Hawagry *et al.*, 2013.

Blaste quadrimaculata (Latreille). Great Britain (I): Woodward, 2015.

*Chaetoblaste*** Garcia Aldrete & Roman-P., 2015: 393. Gender: F. Type species: *Chaetoblaste gonzalezi* Garcia Aldrete & Roman-P. Genus assigned to Amphigerontiinae: Blastini.

*Chaetoblaste gonzalezi** Garcia Aldrete & Roman-P., 2015: 393. Colombia (V).

Elaphopsocoides Roman-P., Garcia Aldrete & Gonzalez Obando, 2014. Revised diagnosis: Roman-P. *et al.*, 2015.

Elaphopsocus Roesler. Revised diagnosis, definition of species groups, key to species: Roman-P. *et al.*, 2015.

*Elaphopsocus amazonicus** Roman-P., Gonzalez Obando & Garcia Aldrete, 2015: 164. Brazil (V).

*Elaphopsocus bahianus** Roman-P., Gonzalez Obando & Garcia Aldrete, 2015: 159. Brazil (V).

*Elaphopsocus gorroneas** Roman-P., Gonzalez Obando & Garcia Aldrete, 2015: 156. Colombia (V).

*Elaphopsocus nasa** Roman-P., Gonzalez Obando & Garcia Aldrete, 2015: 153. Colombia (V).

*Elaphopsocus rayoi** Roman-P., Gonzalez Obando & Garcia Aldrete, 2015: 159. Colombia (V).

*Elaphopsocus roesleri** Roman-P., Gonzalez Obando & Garcia Aldrete, 2015: 164. Colombia (V).

Indiopsocus Mockford. Generic diagnosis, definition of species groups, key to the species of Southeastern USA: Mockford & Young, 2015.

Indiopsocus bisignatus (Banks). USA (III): Mockford & Young, 2015.

Indiopsocus campestris (Aaron). USA (III): Mockford & Young, 2015.

Indiopsocus infumatus (Banks). USA (III): Mockford & Young, 2015.

*Indiopsocus lacteus** Mockford & Young, 2015: 238. USA (III).

*Indiopsocus lanceolatus** Mockford & Young, 2015: 236. USA (III).

*Indiopsocus palmatus** Mockford & Young, 2015: 240. USA (III).

Indiopsocus texanus (Aaron). USA (III): Mockford & Young, 2015.

Kimunpsocus flavonimbatus (Rostock). Finland (I): Salmela *et al.*, 2015.

Loensia maculosa (Banks). USA (III): Naughton *et al.*, 2015.

Loensia variegata (Latreille). Malta (I): Lienhard & Mifsud, 2015.

Metylophorus nebulosus (Stephens). Finland (I): Salmela *et al.*, 2015. Great Britain (I): Alexander, 2014.

Trichadenotecnum Enderlein. Definiton of *marginatum* species group: Yoshizawa & Lienhard, 2015a: 481. Definiton of *alinguum* species group: Yoshizawa & Lienhard, 2015b: 180. Molecular phylogeny of the Old World species, discussion of species groups: Yoshizawa *et al.*, 2015.

Cryptopsocus Li Fasheng, 2002a. **Synonymy:** Yoshizawa & Lienhard, 2015a: 481.

Trichadenotecnum alinguum Endang Sri Kentjonowati, Thornton & New, 2002. Assigned to *alinguum* species group: Yoshizawa & Lienhard, 2015b: 181 (male terminalia figured). Thailand (VIII).

Trichadenotecnum cynostigmus (Li Fasheng, 2002a). Yoshizawa & Lienhard, 2015a: 481 (**from** *Cryptopsocus*, assigned to *marginatum* species group).

Trichadenotecnum germanicum Roesler. Finland (I): Salmela *et al.*, 2015.

Trichadenotecnum incognitum Roesler. Finland (I): Salmela *et al.*, 2015.

Trichadenotecnum laticornutum Endang Sri Kentjonowati, Thornton & New, 2002. Assigned to *alinguum* species group: Yoshizawa & Lienhard, 2015b: 181.

Trichadenotecnum majus (Kolbe). Finland (I): Salmela *et al.*, 2015.

Trichadenotecnum marginatum New & Thornton. Assigned to *marginatum* species group: Yoshizawa & Lienhard, 2015a: 481.

*Trichadenotecnum sabahense** Yoshizawa & Lienhard, 2015a: 485 (assigned to *marginatum* species group). Malaysia: Sabah (VIII).

Trichadenotecnum sexpunctatum (Linnaeus). Great Britain (I): Alexander, 2014.

*Trichadenotecnum sharkeyi** Yoshizawa & Lienhard, 2015a: 484 (assigned to *marginatum* species group). Thailand (VIII).

*Trichadenotecnum siamense** Yoshizawa & Lienhard, 2015b: 183 (assigned to *alinguum* species group). Thailand (VIII).

Trichadenotecnum sibolangitense Endang Sri Kentjonowati & New, 2005. Assigned to *alinguum* species group: Yoshizawa & Lienhard, 2015b: 182.

*Trichadenotecnum tigrinum** Yoshizawa & Lienhard, 2015a: 482 (assigned to *marginatum* species group). Thailand (VIII).

*Trichadenotecnum triceratum** Yoshizawa & Lienhard, 2015b: 185 (assigned to *alinguum* species group). Thailand (VIII).

Trichadenotecnum waykananense Endang Sri Kentjonowati & New, 2005. Assigned to *alinguum* species group: Yoshizawa & Lienhard, 2015b: 183.

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 14 of the "Additions"; see also **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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Next issue. About Feb. 2017. Please let me have all contributions by Jan. 31 2017.

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