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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](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](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 strauchii* 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](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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"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. 2017. Please let me have all contributions by Jan. 31 2017.

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