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# Psocid News

## The Psocidologists' Newsletter

No. 16 (March 4, 2014)



*Neotrogla curvata* (Photo by Rodrigo Ferreira)

### ADDITIONS AND CORRECTIONS (PART 13) TO LIENHARD & SMITHERS, 2002: "PSOCOPTERA (INSECTA) – WORLD CATALOGUE AND BIBLIOGRAPHY"

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#### 1. Introduction

This is the 13th part of a series of "Additions and Corrections to the World Catalogue and Bibliography" (Lienhard & Smithers, 2002) published in "Psocid News". Parts 1-12 were published in Psocid News no. 4-15 (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 (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 1-12). 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.

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 (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).

## 2. List of countries mentioned in the "Additions and Corrections to the World Catalogue" (Parts 1-13)

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 13 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://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 – published in Psocid News, no. 16 (2014) (= 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, 12), Cyprus (Part 11), Czech Republic (Parts 1, 4, 5, 6, 7, 8, 10, 11, 13), Denmark (Parts 10, 12), Egypt (Part 6), Europe (Parts 10, 11, 12), Finland (Parts 1, 7, 10, 11, 12, 13), France (Parts 1, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13), Germany (Parts 1, 3, 4, 5, 7, 8, 10, 11, 12), Great Britain (Parts 1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13), Greece (Parts 5, 6, 11), Hungary (Parts 1, 3, 10), Iceland (Part 10), Iran (Parts 6, 8), Ireland (Parts 6, 9, 13), Israel (Parts 4, 6, 8, 11), Italy (Parts 1, 3, 5, 6, 7, 8, 9, 10), Lebanon (Parts 6, 7, 9, 10, 11, 13), Lithuania (Part 8), Luxembourg (Parts 1, 3, 7, 8, 10, 13), Morocco (Part 10), Netherlands (Parts 4, 7, 9, 11), Norway (Parts 4, 10, 13), Oman (Part 8), Poland (Part 13), Portugal (Parts 6, 7), Romania (Part 10), Russia (Parts 6, 8, 10, 12, 13), Saudi Arabia (Part 8), 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 (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)** 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)

**(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, 12, 13), 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, 12, 13), 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), Bolivia (Parts 1, 5, 9, 10), Brazil (Parts 1, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13), Chile (Parts 1, 4, 6, 8), Colombia (Parts 1, 10, 11, 12, 13), Ecuador (Parts 1, 6, 8, 13), Paraguay (Part 13), Peru (Parts 1, 5, 6, 8, 9, 10, 11, 12, 13), 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, 12, 13), 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, 12), Kazakhstan (Part

13), Kuril Islands (Part 4), Kyrgyzstan (Part 5), Laos (Parts 5, 6), Malaysia (Parts 1, 5, 6, 8, 10), Myanmar (Parts 6, 8, 13), 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, 13), Thailand (Parts 1, 4, 5, 6, 9, 11), USSR (Parts 4, 9), Vietnam (Parts 4, 5, 6, 8, 13)

(IX) Australia (Parts 1, 4, 5, 6, 7, 8, 10, 12, 13), 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 (Part 8), Galapagos (Parts 5, 12), Hawaii (Parts 8, 13), New Caledonia (Part 12)

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

### 3. Additions to the Catalogue

#### Psocodea

Smith *et al.*, 2011 (phylogeny, coevolution with mammals and birds). Johnson *et al.*, 2013 (phylogenomics, methods). Li Hu *et al.*, 2013 (mitochondrial genome: Trogiomorpha + Psocomorpha considered as sister group of remaining Psocodea). Yoshizawa & Johnson, 2013 (molecular evolution).

**Westphalopsocidae** Azar, Nel, Engel & Bourgoïn, 2013; *in*: Nel *et al.*, 2013: 258 and Suppl. Inf. p. 11.

**Westphalopsocus\*\*** Azar, Nel, Engel & Bourgoïn, 2013; *in*: Nel *et al.*, 2013: 258 and Suppl. Inf. p. 11.

Gender: M. Type species: *Westphalopsocus pumilio* Azar, Nel, Engel & Bourgoïn.

**Westphalopsocus pumilio\*** Azar, Nel, Engel & Bourgoïn, 2013; *in*: Nel *et al.*, 2013: 258 and Suppl. Inf. p. 11 and Extended Data Fig. 7. France (I), Carboniferous fossil, Moscovian (A). Oldest evidence of Psocodea.

#### Psocoptera

Neri, 2005: facsimile of oldest known scientific illustration of a psocid (Fig. 1, no. 5), from 1660 or 1661 (NOTE: the specimen figured is probably a young nymph of Psocomorpha). Floren, 2008: ecology, Poland (I). Poinar, 2011: nematode *Psocidonema dominicana* parasite of psocid, amber (A) from Dominican Republic (IV). Young, 2011: Texas (III), website. Zhang Zhi-Qiang, 2011 (up to year 2008: 5720 spp. known). Cardoso & Silveira, 2012: unidentified psocid as nest associate of Hymenoptera, Brazil (V). Garcia Aldrete, 2013: Mexico (IV), history of biodiversity knowledge, list of genera with species numbers, endemism, hot spot of biodiversity. Hawes & Greenslade, 2013: subantarctic islands (IX) (aerial dispersal). Li Yanhong *et al.*, 2013: China (VIII), ecology, soil fauna. Lienhard, 2013 (additions to the World Catalogue and Bibliography, Part 12). Mockford *et al.*, 2013 (comparison of psocid fauna from Cretaceous amber with fauna from Baltic amber and extant fauna). Roy *et al.*, 2013 (in bird nests). Walton, 2013 (terrestrial salamander as predator). Yoshizawa, 2013 (Newsletter). Opit *et al.*, 2014: stored-product psocids, website.

**Cicadellium dipsas** Westwood, 1854. Species assigned to Psocoptera by Shcherbakov, 2012: 19. Great Britain (I), impression fossil from Early Cretaceous, Late Berriasian (A).

#### Trogiomorpha

**Empheriopsis** Vishnyakova. Mockford *et al.*, 2013: 3 (genus placed in Trogiomorpha *incertae sedis*, from Psocoptera *incertae sedis*). Late Cretaceous amber, Russia (A).

**Parapsyllipsocus** Perrichot, Azar, Néraudeau & Nel, 2003. Mockford *et al.*, 2013: 3 (genus placed in Trogiomorpha *incertae sedis*). Early Cretaceous amber, France (A).

#### Archaeatropidae

**Archaeatropos** Baz & Ortuño. Mockford *et al.*, 2013: 4 (etymology of genus name explained).

**Archaeatropos perantiqua** (Cockerell). Mockford *et al.*, 2013: 5 (from *Psylloneura*). Burmese amber from Cretaceous, Myanmar (A).

**Archaeatropos randatae** (Azar & Nel, 2004). Mockford *et al.*, 2013: 5 (from *Libanoglaris*). Early Cretaceous amber, Lebanon (A).

**Bcharreglaris** Azar & Nel, 2004. Mockford *et al.*, 2013: 5 (from Trogiomorpha *incertae sedis*). Early Cretaceous amber, Lebanon (A).

**Libanoglaris** Azar, Perrichot, Néraudeau & Nel, 2003. Mockford *et al.*, 2013: 6 (from Trogiomorpha *incertae sedis*). Early Cretaceous amber, Lebanon (A).

**Libanoglaris mouawadi** Azar, Perrichot, Néraudeau & Nel, 2003. Mockford *et al.*, 2013: 6 (further description). Early Cretaceous amber, Lebanon (A).

- Proprionoglaris*** Perrichot, Azar, Néraudeau & Nel, 2003. Mockford *et al.*, 2013: 7 (**from** *Trogiomorpha incertae sedis*). Early Cretaceous amber, France (A).
- Prospeleketor*** Perrichot, Azar, Néraudeau & Nel, 2003. Mockford *et al.*, 2013: 7 (**from** *Trogiomorpha incertae sedis*). Early Cretaceous amber, France (A).
- Setoglaris*** Azar & Nel, 2004. Mockford *et al.*, 2013: 7 (**from** *Trogiomorpha incertae sedis*). Early Cretaceous amber, Lebanon (A).

### **Empheriidae**

- Mockford *et al.*, 2013: 8 (remark on morphology).
- Empheropsocus*** Baz & Ortuño, 2001. Mockford *et al.*, 2013: 8 (remark on morphology). Early Cretaceous amber, Spain (A).
- Jerseyempheria*** Azar, Nel & Petrulevicius, 2010. Mockford *et al.*, 2013: 8 (remark on morphology). Late Cretaceous amber, USA (New Jersey) (A).
- Preempheria*** Baz & Ortuño, 2001. Mockford *et al.*, 2013: 9 (remark on morphology). Early Cretaceous amber, Spain (A).

### **Lepidopsocidae**

- Lepidopsocidae gen. spec. Genet. (mitochondrial genome): Simon & Hadrys, 2013; Li Hu *et al.*, 2013.
- Cyptophania*** Banks. Revised diagnosis and key to species: Mockford & Wynne, 2013 (synonymy with *Ptenocorium* Enderlein questionable).
- Cyptophania alutacea*** (Enderlein). Discussion: Mockford & Wynne, 2013: 448 (probably inclusion in *Cyptophania* not justified).
- Cyptophania australica*\*** Mockford & Wynne, 2013: 446. Australia (IX).
- Cyptophania costalis*\*** Mockford & Wynne, 2013: 447. Puerto Rico, Mexico (IV), USA (III).
- Cyptophania hirsuta*** Banks. Redescription: Mockford & Wynne, 2013: 439. Mexico (IV): Garcia Aldrete, 2011d.
- Cyptophania pakaratii*\*** Mockford & Wynne, 2013: 445. Easter Island (X).
- Echmepteryx alpha*** Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c, 2011d.
- Echmepteryx falco*** (Badonnel). Mexico (IV): Garcia Aldrete, 2011c, 2011d.
- Echmepteryx gracilis*\*** Mockford, 2012b: 2. Bahamas (III).
- Echmepteryx hamiltoni*** (Tillyard). New Zealand (IX): Smithers, 2010.
- Echmepteryx intermedia*** Mockford. Mexico (IV): Garcia Aldrete, 2011d.
- Echmepteryx madagascariensis*** (Kolbe). Mexico (IV): Garcia Aldrete, 2011d. New Zealand (IX): Smithers, 2010.
- Echmepteryx pacifica*** Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c.
- Echmepteryx stylesi*** Smithers. New Zealand (IX): Smithers, 2010.
- Neolepolepis caribensis*** (Turner). Mexico (IV): Garcia Aldrete, 2011c, 2011d.
- Neolepolepis leticiae*** (Garcia Aldrete). Mexico (IV): Garcia Aldrete, 2011c.
- Proentomum personatum*** Badonnel. Mexico (IV): Garcia Aldrete, 2011c, 2011d.
- Pteroxanium kelloggi*** (Ribaga). Great Britain (I): Welch, 2012 (indoors). New Zealand (IX): Smithers, 2010.
- Pteroxanium marrisi*** Smithers. New Zealand (IX): Smithers, 2010.
- Soa flaviterminata*** Enderlein. Mexico (IV): Garcia Aldrete, 2011c, 2011d.
- Thylacella cubana*** (Banks). Mexico (IV): Garcia Aldrete, 2011c, 2011d.

### **Trogiidae**

- Cerobasis*** spec. Mexico (IV): Garcia Aldrete, 2011d.
- Cerobasis guestfalica*** (Kolbe). Mexico (IV): Garcia Aldrete, 2011d. New Zealand (IX): Smithers, 2010.
- Cerobasis lineata*\*** Mockford, 2012b: 3. Bahamas (III).
- Eolepinotus*** Vishnyakova. Mockford *et al.*, 2013: 9 (placement in Trogiidae confirmed). Late Cretaceous amber, Russia (A).
- Lepinotus inquilinus*** Heyden. Mexico (IV): Garcia Aldrete, 2011c. New Zealand (IX): Smithers, 2010.
- Lepinotus patruelis*** Pearman. Luxembourg (I): Schneider & Weber, 2013. New Zealand (IX): Smithers, 2010.
- Lepinotus reticulatus*** Enderlein. China (VIII): Liang Feiyang *et al.*, 2012.
- Lepinotus tasmaniensis*** Hickman. New Zealand (IX): Smithers, 2010.
- Trogium evansorum*** Smithers. New Zealand (IX): Smithers, 2010.
- Trogium pulsatorium*** (Linnaeus). Czech Republic, Slovakia (I): Holusa, 2011, 2012a, 2012b, 2013 (ecol.). New Zealand (IX): Smithers, 2010.

### **Psoquillidae**

*Psoquilla marginepunctata* Hagen. Mexico (IV): Garcia Aldrete, 2011c, 2011d.

*Rhyopsocus bentonae* Sommerman. Mexico (IV): Garcia Aldrete, 2011d.

*Rhyopsocus concavus* Garcia Aldrete. Mexico (IV): Casasola-Gonzalez *et al.*, 2013 (ecology).

*Rhyopsocus conformis* Smithers. New Zealand (IX): Smithers, 2010.

*Rhyopsocus maculosus* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c.

*Rhyopsocus ocotensis* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c.

*Rhyopsocus orthatus* Thornton & Woo. Mexico (IV): Garcia Aldrete, 2011c.

*Rhyopsocus texanus* (Banks). Mexico (IV): Garcia Aldrete, 2011c.

### **Psyllipsocidae**

Psyllipsocidae gen. spec. from Early Cretaceous amber, Lebanon (A): Mockford *et al.*, 2013: 9 (certain characters discussed).

*Dorypteryx* spec. Mexico (IV): Garcia Aldrete, 2011c.

*Khatangia* Vishnyakova. Mockford *et al.*, 2013: 10 (certain characters discussed). Late Cretaceous amber, Russia (A).

*Psocathropos lachlani* Ribaga. Mexico (IV): Garcia Aldrete, 2011c, 2011d.

*Psyllipsocus* spec. Mexico (IV): Garcia Aldrete, 2011c, 2011d.

*Psyllipsocus clunjunctus*\* Lienhard, 2013; *in*: Lienhard & Ferreira, 2013b: 424. Brazil (V).

*Psyllipsocus oculatus* Gurney. Mexico (IV): Casasola-Gonzalez *et al.*, 2013 (ecology).

*Psyllipsocus ramburii* Selys-Longchamps. Luxembourg (I): Schneider & Weber, 2013. Mexico (IV): Garcia Aldrete, 2011d. New Zealand (IX): Smithers, 2010.

*Psyllipsocus serrifer*\* Lienhard, 2013; *in*: Lienhard & Ferreira, 2013b: 429. Brazil (V).

*Psyllipsocus similis*\* Lienhard, 2013; *in*: Lienhard & Ferreira, 2013b: 433. Brazil (V).

*Psyllipsocus yucatan* Gurney. Brazil (V): Anonymous, 2012 (this is a summary of the paper by Lienhard *et al.*, 2012).

### **Prionoglarididae**

Antennal morphology: Lienhard & Ferreira, 2013a:10.

*Neotrogla curvata*\* Lienhard & Ferreira, 2013a: 4. Brazil (V).

*Prionoglaris stygia* Enderlein. Luxembourg (I): Schneider & Weber, 2013 (ecol.).

### **Electrentomoidea**

Mockford *et al.*, 2013: 10 (remark on phylogenetic position of the superfamily).

*Globopsocus* Azar & Engel, 2008. Mockford *et al.*, 2013: 10 (genus placed in *Electrentomoidea incertae sedis*, **from** Nanopsocetae: Sphaeropsocidae).

*Globopsocus aquilonius* Azar & Engel, 2008. Mockford *et al.*, 2013: 11 (remark on holotype). Late Cretaceous amber, Russia (A).

*Libanomphientomum* Choufani, Azar & Nel, 2011. Mockford *et al.*, 2013: 11 (genus placed in *Electrentomoidea incertae sedis*, **from** Aphientometae *incertae sedis*).

*Libanomphientomum nudum* Choufani, Azar & Nel, 2011. Mockford *et al.*, 2013: 12 (correct spelling of species name). Early Cretaceous amber, Lebanon (A).

### **Electrentomidae**

Family concept discussed: Mockford *et al.*, 2013: 12.

Manicapsocidae Mockford, 1967. **Synonymy**: Lienhard, & Smithers, 2002: 51; confirmed by Mockford *et al.*, 2013: 12.

Paramesopsocidae Azar, Hajar, Indary & Nel, 2009. **Synonymy**: Mockford *et al.*, 2013: 12.

*Epitroctes tuxtlarum* Mockford. Mexico (IV): Garcia Aldrete, 2011d.

*Manicapsocidus* Baz & Ortuño, 2001. Mockford *et al.*, 2013: 12 (comparison with *Manicapsocus* Smithers). Early Cretaceous amber, Spain (A).

*Paramesopsocus* Azar, Hajar, Indary & Nel, 2009. Mockford *et al.*, 2013: 12 (**from** Psocomorpha: Paramesopsocidae).

*Paramesopsocus adibi* Azar, Hajar, Indary & Nel, 2009. Mockford *et al.*, 2013: 13 (discussion). Limestone from Late Jurassic, Kazakhstan (A).

*Paramesopsocus lu* Azar, Hajar, Indary & Nel, 2009. Mockford *et al.*, 2013: 13 (discussion). Early Cretaceous amber, Lebanon (A).

## Compsocidae

*Burmacompsocus banksi* (Cockerell). Mockford *et al.*, 2013: 13 (**from** *Psyllipsocus*). Burmese amber from Cretaceous, Myanmar (A).

*Compsocus elegans* Banks. Mexico (IV): Garcia Aldrete, 2011c, 2011d.

## Troctopsocidae

*Troctopsoculus morenus* Mockford. Mexico (IV): Garcia Aldrete, 2011d.

## Musapsocidae

*Musapsocus huastecanus* Mockford. Mexico (IV): Garcia Aldrete, 2011d.

*Musapsocus tabascensis* Mockford. Mexico (IV): Garcia Aldrete, 2011c, 2011d.

## Amphientomoidea

Mockford *et al.*, 2013: 14 (concept of the superfamily explained).

## Amphientomidae

Arcantipsocidae Azar, Nel & Néraudeau, 2009. **Synonymy:** Mockford *et al.*, 2013: 14.

*Arcantipsocus* Azar, Nel & Néraudeau, 2009. Mockford *et al.*, 2013: 14 (**from** Psocomorpha: Arcantipsocidae). Early Cretaceous amber, France (A).

*Lithoseopsis* spec. Mexico (IV): Garcia Aldrete, 2011c, 2011d.

*Lithoseopsis elongata* (Mockford). Mexico (IV): Garcia Aldrete, 2011c.

*Proamphientomum* Vishnyakova. Mockford *et al.*, 2013: 15 (family placement confirmed). Late Cretaceous amber, Russia (A).

*Seopsocus lacandonicus* Garcia Aldrete, 2001b. Mexico (IV): Garcia Aldrete, 2011c.

## Liposcelididae

Smith *et al.*, 2011: Phylogeny of lice, oldest fossil of Liposcelididae used for node calibration.

*Belaphotroctes ghesquieri* Badonnel. Mexico (IV): Garcia Aldrete, 2011c.

*Cretoscelis* Grimaldi & Engel, 2006. Mockford *et al.*, 2013: 15 (family placement confirmed). Burmese amber from Cretaceous, Myanmar (A).

*Embidopsocus femoralis* (Badonnel). Mexico (IV): Garcia Aldrete, 2011d.

*Embidopsocus luteus* Hagen. Mexico (IV): Garcia Aldrete, 2011c, 2011d.

*Embidopsocus mexicanus* Mockford. Mexico (IV): Garcia Aldrete, 2011c, 2011d.

*Liposcelis* spec. Mexico (IV): Garcia Aldrete, 2011c; Casasola-Gonzalez *et al.*, 2013 (ecology).

*Liposcelis* spec. Schoelitz, 2013 (biology).

*Liposcelis bostrychophila* Badonnel. Mexico (IV): Garcia Aldrete, 2011c, 2011d; Casasola-Gonzalez *et al.*, 2013 (ecology). Genetics: Li Hu *et al.*, 2013 (mitochondrial genome). Pest: Athanassiou *et al.*, 2013 (control); Dou Wei *et al.*, 2013 (genetics); Gautam *et al.*, 2013 (negative impact); Jiang Xuan-Zhao *et al.*, 2013 (genetics); Liang Yan *et al.*, 2013 (control); Yang Qianqian *et al.*, 2013a, 2013b (molecular identification).

*Liposcelis brunnea* Motschulsky. Pest: Yang Qianqian *et al.*, 2013a, 2013b (molecular identification).

*Liposcelis corrosens* (Heymons). Czech Republic, Slovakia (I): Holusa, 2011, 2012a, 2012b, 2013 (ecol.). New Zealand (IX): Smithers, 2010. Pest: Yang Qianqian *et al.*, 2013a, 2013b (molecular identification, barcoding technique).

*Liposcelis decolor* (Pearman). Pest: Gautam *et al.*, 2013 (negative impact); Yang Qianqian *et al.*, 2013a, 2013b (molecular identification).

*Liposcelis divinatoria* (Müller). Taiwan (VIII): Yao Me-Chin *et al.*, 2011 (pest).

*Liposcelis entomophila* (Enderlein). Mexico (IV): Garcia Aldrete, 2011c, 2011d. Pest: Gautam *et al.*, 2013 (negative impact); Wei Dan-Dan *et al.*, 2013 (genetics, insecticide resistance); Yang Qianqian *et al.*, 2013a, 2013b (molecular identification).

*Liposcelis mendax* Pearman. Mexico (IV): Garcia Aldrete, 2011d (ca. *mendax*). Pest: Yang Qianqian *et al.*, 2013a, 2013b (molecular identification).

*Liposcelis paeta* Pearman. Pest: Athanassiou *et al.*, 2013 (control); Gautam *et al.*, 2013 (negative impact); Yang Qianqian *et al.*, 2013a, 2013b (molecular identification).

*Liposcelis pearmani* Lienhard. Pest: Yang Qianqian *et al.*, 2013a, 2013b (molecular identification).

*Liposcelis rufa* Broadhead. Pest: Yang Qianqian *et al.*, 2013a, 2013b (molecular identification).

*Liposcelis tricolor* Badonnel. Pest: Yang Qianqian *et al.*, 2013a, 2013b (molecular identification).

*Liposcelis yunnaniensis* Li Fasheng & Li Zhihong. Biol.: Hassan *et al.*, 2013.

## **Pachytroctidae**

*Libanopsyllipsocus* Azar & Nel, 2011. Mockford *et al.*, 2013: 16 (**from** Trogiomorpha: Psyllipsocidae).

*Libanopsyllipsocus alexanderasnitsyni* Azar & Nel, 2011. Mockford *et al.*, 2013: 16 (several characters discussed). Early Cretaceous amber, Lebanon (A).

*Nanopsocus oceanicus* Pearman. Mexico (IV): Garcia Aldrete, 2011c, 2011d.

*Pachytroctes ixtapaensis* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011d.

*Pachytroctes maculosus* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c.

*Tapinella bicolorata* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c.

*Tapinella maculata* Mockford & Gurney. Mexico (IV): Garcia Aldrete, 2011c, 2011d.

*Tapinella olmeca* Mockford. Mexico (IV): Garcia Aldrete, 2011c, 2011d.

*Tapinella vittata* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c, 2011d.

## **Sphaeropsocidae**

Key to genera: Mockford, 2013: 102.

*Badonnelia titei* Pearman. Great Britain (I): Welch, 2012 (indoors).

*Asphaeropsocites* Azar, Engel & Grimaldi, 2010. Mockford *et al.*, 2013: 17 (phylogenetic position discussed). Early Cretaceous amber, Lebanon (A).

*Sphaeropsocites* Grimaldi & Engel, 2006. Mockford *et al.*, 2013: 17 (phylogenetic position discussed). Early Cretaceous amber, Lebanon (A).

*Sphaeropsocooides* Grimaldi & Engel, 2006. Mockford *et al.*, 2013: 17 (comparison with *Sphaeropsocus* Hagen). Late Cretaceous amber, Canada, Alberta (A).

*Sphaeropsocus* Hagen. Revised diagnosis: Mockford, 2013: 102.

*Sphaeropsocus bicolor*\* Mockford, 2013: 103. USA (III).

*Sphaeropsocus kuenowii* Hagen. Further description: Mockford, 2013: 108. Baltic Amber, Tertiary (A).

## **Psocomorpha**

*Cretapsocus* Vishnyakova. Mockford *et al.*, 2013: 18 (genus placed in Psocomorpha *incertae sedis*, **from** Elipsocidae). Late Cretaceous amber, Russia (A).

## **Epipsocetae**

Garcia Aldrete *et al.*, 2013d: key to families and genera from Valle del Cauca and National Natural Park Gorgona, Colombia (V).

## **Epipsocidae**

Epipsocidae gen spec. Colombia (V): Garcia Aldrete *et al.*, 2013d.

*Bertkauia lucifuga* (Rambur). Czech Republic, Slovakia (I): Holusa, 2011, 2012a, 2012b, 2013 (ecol.). Luxembourg (I): Schneider & Weber, 2013 (ecol.).

*Edmockfordia* spec. Colombia (V): Garcia Aldrete *et al.*, 2013d.

*Epipsocus* spec. Mexico (IV): Garcia Aldrete, 2011c, 2011d. Colombia (V): Garcia Aldrete *et al.*, 2013d.

*Epipsocus badonneli* Mockford. Colombia (V): Garcia Aldrete *et al.*, 2013d.

*Epipsocus bullocki* Garcia Aldrete, 2004b. Mexico (IV): Garcia Aldrete, 2011d.

*Epipsocus petenensis* Mockford. Mexico (IV): Garcia Aldrete, 2011d.

*Goja* spec. Colombia (V): Garcia Aldrete *et al.*, 2013d.

*Goja acuphallica* Casasola Gonzalez & Garcia Aldrete, 2002. Mexico (IV): Garcia Aldrete, 2011c.

*Goja longispinosa* Casasola Gonzalez & Garcia Aldrete, 2002. Mexico (IV): Garcia Aldrete, 2011c.

*Goja medellini* Casasola Gonzalez & Garcia Aldrete, 2002. Mexico (IV): Garcia Aldrete, 2011c.

*Goja montieli* Casasola Gonzalez & Garcia Aldrete, 2002. Mexico (IV): Garcia Aldrete, 2011c.

*Goja moyai* Casasola Gonzalez & Garcia Aldrete, 2002. Mexico (IV): Garcia Aldrete, 2011d.

*Goja ocotensis* Casasola Gonzalez & Garcia Aldrete, 2002. Mexico (IV): Garcia Aldrete, 2011c.

*Goja oculatissima* Casasola Gonzalez & Garcia Aldrete, 2002. Mexico (IV): Garcia Aldrete, 2011c.

*Goja spinosissima* Casasola Gonzalez & Garcia Aldrete, 2002. Mexico (IV): Garcia Aldrete, 2011c.

*Goja vittata* Casasola Gonzalez & Garcia Aldrete, 2002. Mexico (IV): Garcia Aldrete, 2011c.

*Gojaoides* spec. Colombia (V): Garcia Aldrete *et al.*, 2013d.

*Gonzobandia nancyae* Garcia Aldrete, 2012c. Colombia (V): Garcia Aldrete *et al.*, 2013d.

*Mesepipsocus* spec. Colombia (V): Garcia Aldrete *et al.*, 2013d.

*Mesepipsocus brevistigma* (New). Colombia (V): Garcia Aldrete *et al.*, 2013d.

*Mesepipsocus clarus* (Mockford). Mexico (IV): Garcia Aldrete, 2011c.

*Neurostigma* spec. Colombia (V): Garcia Aldrete *et al.*, 2013d.

*Neurostigma dispositum* Roesler. Mexico (IV): Garcia Aldrete, 2011c, 2011d.



### **Dolabellopsocidae**

- Dolabellopsocus* spec. Colombia (V): Garcia Aldrete *et al.*, 2013d.  
*Dolabellopsocus lobatus* Mockford. Colombia (V): Garcia Aldrete *et al.*, 2013d.  
*Dolabellopsocus roseus* Eertmoed. Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Dolabellopsocus similis* Mockford. Colombia (V): Garcia Aldrete *et al.*, 2013d.  
*Isthmopsocus* spec. Colombia (V): Garcia Aldrete *et al.*, 2013d.

### **Cladiopsocidae**

- Cladiopsocus* spec. Colombia (V): Garcia Aldrete *et al.*, 2013d.  
*Cladiopsocus garciai* Eertmoed. Mexico (IV): Garcia Aldrete, 2011d.  
*Cladiopsocus multimaculatus* Eertmoed. Colombia (V): Garcia Aldrete *et al.*, 2013d.  
*Cladiopsocus ocotensis* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c.

### **Ptiloneuridae**

- Colocania* (manuscript name). Garcia Aldrete *et al.*, 2013d.  
*Colocania* spec. Colombia (V): Garcia Aldrete *et al.*, 2013d.  
*Euplocania* Enderlein. Species groups: Garcia Aldrete *et al.*, 2013b: 151.  
*Euplocania* spec. Nicaragua (IV); Brazil, Colombia, Ecuador (V): Garcia Aldrete *et al.*, 2013b. Colombia (V): Garcia Aldrete *et al.*, 2013d.  
*Euplocania amabilis* Enderlein. Paraguay (V): Garcia Aldrete *et al.*, 2013b.  
*Euplocania badonneli* New & Thornton. Peru, Brazil (V): Garcia Aldrete *et al.*, 2013b.  
*Euplocania cerata* New. Brazil, Peru (V): Garcia Aldrete *et al.*, 2013b.  
*Euplocania maculata* New & Thornton. Peru (V): Garcia Aldrete *et al.*, 2013b.  
*Euplocania marginata* New & Thornton. Peru, Brazil (V): Garcia Aldrete *et al.*, 2013b.  
*Euplocania picta* New. Brazil (V): Garcia Aldrete *et al.*, 2013b.  
*Euplocania pictaoides* Garcia Aldrete. Peru (V): Garcia Aldrete *et al.*, 2013b.  
*Euplocania reyesi*\* Garcia Aldrete, Gonzalez Obando & Carrejo, 2013b: 149. Colombia (V).  
*Euplocania zelayensis* Garcia Aldrete, 2001g. Nicaragua (IV): Garcia Aldrete *et al.*, 2013b.  
*Loneura* spec. Colombia (V): Garcia Aldrete *et al.*, 2013d.  
*Loneura andina* Garcia Aldrete, Mendivil Nieto & Gonzalez Obando, 2012. Colombia (V): Garcia Aldrete *et al.*, 2013d.  
*Loneura crenata* Navas. Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Loneura gorgonaensis* Garcia Aldrete, Gonzalez & Sarria, 2011. Colombia (V): Garcia Aldrete *et al.*, 2013d.  
*Loneura insularis* Garcia Aldrete, Gonzalez & Sarria, 2011. Colombia (V): Garcia Aldrete *et al.*, 2013d.  
*Loneura mirandaensis* Garcia Aldrete, 2007a. Colombia (V): Garcia Aldrete *et al.*, 2013d.  
*Loneura monticola* Garcia Aldrete, Gonzalez & Sarria, 2011. Colombia (V): Garcia Aldrete *et al.*, 2013d.  
*Loneura splendida* Mockford. Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Loneura tuluensis* Garcia Aldrete, Mendivil Nieto & Gonzalez Obando, 2012. Colombia (V): Garcia Aldrete *et al.*, 2013d.  
*Loneuroides venezolanus* Garcia Aldrete, 2006a. Colombia (V): Garcia Aldrete *et al.*, 2013d.  
*Triplocania* spec. Colombia (V): Garcia Aldrete *et al.*, 2013d.  
*Triplocania palaciosi*\* Garcia Aldrete & Casasola Gonzalez, 2012: 135. Mexico (IV).  
*Triplocania spinosa* Mockford. Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Triplocania vazquezae* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c, 2011d.

### **Asiopsocidae**

- Asiopsocus tehuacanus* Garcia Aldrete & Casasola. Mexico (IV): Casasola-Gonzalez *et al.*, 2013 (ecology).  
*Notiopsocus* spec. Mexico (IV): Garcia Aldrete, 2011c, 2011d.

### **Caeciliusidae**

- Caecilius* spec. New Zealand (IX): Smithers, 2010.  
*Caecilius fuscopterus* (Latreille). Czech Republic, Slovakia (I): Holusa, 2010, 2011, 2012a, 2012b, 2013 (ecol.). Russia (I): Kanervo & Kozlov, 2014 (ecol.).  
*Enderleinella obsoleta* (Stephens). Czech Republic, Slovakia (I): Holusa, 2011, 2012a, 2012b, 2013 (ecol.). Russia (I): Kanervo & Kozlov, 2014 (ecol.).  
*Maoripsocus fastigatus* (Smithers). New Zealand (IX): Smithers, 2010.  
*Maoripsocus semifuscatus* Tillyard. New Zealand (IX): Smithers, 2010 (name misspelled *semifasciatus*).

*Orocaecilius chiapensis* Mockford. Mexico (IV): Garcia Aldrete, 2011c.  
*Paracaecilius* spec. New Zealand (IX): Smithers, 2010.  
*Paracaecilius zelandicus* (Tillyard). New Zealand (IX): Smithers, 2010.  
*Stenocaecilius antillanus* (Banks). Mexico (IV): Garcia Aldrete, 2011c, 2001d.  
*Stenocaecilius casarum* (Badonnel). Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Valenzuela* spec. Mexico (IV): Garcia Aldrete, 2011c, 2011d; Casasola-Gonzalez *et al.*, 2013 (ecology).  
*Valenzuela atricornis* (McLachlan). Czech Republic, Slovakia (I): Holusa, 2011, 2012a, 2012b, 2013 (ecol.). Great Britain (I): Denton, 2011 (ecol.).  
*Valenzuela burmeisteri* (Brauer). Czech Republic, Slovakia (I): Holusa, 2011, 2012a, 2012b, 2013 (ecol.). Finland, Russia (I): Kanervo & Kozlov, 2014 (ecol.).  
*Valenzuela caloclypeus* (Mockford & Gurney). Mexico (IV): Garcia Aldrete, 2011d.  
*Valenzuela croesus* (Chapman). Mexico (IV): Garcia Aldrete, 2011c.  
*Valenzuela despaxi* (Badonnel). Czech Republic, Slovakia (I): Holusa, 2011, 2012a, 2012b, 2013 (ecol.). Finland, Norway (I): Kanervo & Kozlov, 2014 (ecol.).  
*Valenzuela distinctus* (Mockford). Mexico (IV): Garcia Aldrete, 2011d.  
*Valenzuela elegantoides* (Mockford). Mexico (IV): Garcia Aldrete, 2011c.  
*Valenzuela flavidus* (Stephens). Mexico (IV): Garcia Aldrete, 2011c. Czech Republic, Slovakia (I): Holusa, 2010, 2011, 2012a, 2012b, 2013 (ecol.). Finland, Norway, Russia (I): Kanervo & Kozlov, 2014 (ecol.).  
*Valenzuela flavistigma* (Tillyard). New Zealand (IX): Smithers, 2010.  
*Valenzuela flavus* (Smithers). New Zealand (IX): Smithers, 2010.  
*Valenzuela gynapterus* (Tetens). Czech Republic, Slovakia (I): Holusa, 2010, 2011, 2012a, 2012b, 2013 (ecol.). Russia (I): Kanervo & Kozlov, 2014 (ecol.).  
*Valenzuela incoloratus* (Mockford). Bahamas (III): Mockford, 2012b.  
*Valenzuela mexicanus* (Enderlein). Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Valenzuela piceus* (Kolbe). Czech Republic, Slovakia (I): Holusa, 2010, 2011, 2012a, 2012b, 2013 (ecol.). Russia (I): Kanervo & Kozlov, 2014 (ecol.).  
*Valenzuela podacrophaeus* (Enderlein). Mexico (IV): Garcia Aldrete, 2011d.  
*Valenzuela totonacus* (Mockford). Mexico (IV): Garcia Aldrete, 2011c, 2011d; Casasola-Gonzalez *et al.*, 2013 (ecology).  
*Valenzuela veracruzensis* (Mockford). Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Xanthocaecilius anahuacensis* Mockford. Mexico (IV): Garcia Aldrete, 2011c.  
*Xanthocaecilius brevicornis* Mockford. Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Xanthocaecilius granulosus* Mockford. Mexico (IV): Garcia Aldrete, 2011c, 2011d.

### Stenopsocidae

*Graphopsocus cruciatus* (Linnaeus). Czech Republic, Slovakia (I): Holusa, 2010, 2011, 2012a, 2012b, 2013 (ecol.).  
*Graphopsocus mexicanus* Enderlein. Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Graphopsocus vietnamicus*\* Liang Feiyang, Li Fasheng & Liu Xingyue, 2013: 42. Vietnam (VIII).  
*Stenopsocus immaculatus* (Stephens). Czech Republic, Slovakia (I): Holusa, 2010, 2011, 2012a, 2012b, 2013 (ecol.). Russia (I): Kanervo & Kozlov, 2014 (ecol.).  
*Stenopsocus lachlani* Kolbe. Czech Republic, Slovakia (I): Holusa, 2011, 2012a, 2012b, 2013 (ecol.). Norway, Russia (I): Kanervo & Kozlov, 2014 (ecol.).  
*Stenopsocus stigmaticus* (Imhoff & Labram). Czech Republic, Slovakia (I): Holusa, 2011, 2012a, 2012b, 2013 (ecol.).

### Amphipsocidae

*Dasypsocus roesleri* (New & Thornton). Mexico (IV): Garcia Aldrete, 2011c.  
*Kolbia quisquiliarum* Bertkau. Czech Republic, Slovakia (I): Holusa, 2010, 2011, 2012a, 2012b, 2013 (ecol.).  
*Polypsocus* spec. Mexico (IV): Garcia Aldrete, 2011c, 2011d (ca. *corruptus*).

### Dasydemellidae

*Dasydemella* spec. Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Dasydemella silvestrii* Enderlein. Mexico (IV): Garcia Aldrete, 2011c, 2011d.

## Lachesillidae

Lachesillidae: Key to genera from Valle del Cauca and PNN Gorgona, Colombia (V): Gonzalez Obando *et al.*, 2013: 59.

Lachesillidae: Gen. spec. Colombia (V): Gonzalez Obando *et al.*, 2013.

Graphocaeciliini: Key to genera: Garcia Aldrete *et al.*, 2013a: 564.

**Anomolachesilla**\*\* Garcia Aldrete, Gonzalez Obando & Carrejo, 2012c: 92. Gender: F. Type species: *Anomolachesilla palaciosi* Garcia Aldrete, Gonzalez Obando & Carrejo. Genus assigned to Eolachesillinae: Graphocaeciliini.

**Anomolachesilla caldasiana**\* Garcia Aldrete, Gonzalez Obando & Carrejo, 2012c: 92. Colombia (V). Colombia (V): Gonzalez Obando *et al.*, 2013.

**Anomolachesilla palaciosi**\* Garcia Aldrete, Gonzalez Obando & Carrejo, 2012c: 92. Colombia (V). Colombia (V): Gonzalez Obando *et al.*, 2013.

**Anomopsocus** spec. a (*sensu* Mockford & Sullivan, 1986). Mexico (IV): Garcia Aldrete, 2011c, 2011d. Colombia (V): Gonzalez Obando *et al.*, 2013.

**Archaelachesis** Vishnyakova. Mockford *et al.*, 2013: 19 (family placement confirmed). Late Cretaceous amber, Russia (A).

**Ceratolachesillus quinquecornus** Li Fasheng, 2002a. Male terminalia figured: Garcia Aldrete *et al.*, 2013c.

**Dagualachesilla**\*\* Garcia Aldrete, Gonzalez Obando & Carrejo, 2013a: 556. Gender: F. Type species: *Dagualachesilla anchicayaensis* Garcia Aldrete, Gonzalez Obando & Carrejo. Genus assigned to Eolachesillinae: Graphocaeciliini. Key to species.

**Dagualachesilla** spec. Colombia (V): Gonzalez Obando *et al.*, 2013.

**Dagualachesilla anchicayaensis**\* Garcia Aldrete, Gonzalez Obando & Carrejo, 2013a: 556. Colombia (V). Colombia (V): Gonzalez Obando *et al.*, 2013.

**Dagualachesilla queremalensis**\* Garcia Aldrete, Gonzalez Obando & Carrejo, 2013a: 560. Colombia (V). Colombia (V): Gonzalez Obando *et al.*, 2013.

**Dagualachesilloides**\*\* Garcia Aldrete, Gonzalez Obando & Carrejo, 2013a: 556. Gender: M. Type species: *Dagualachesilloides caliensis* Garcia Aldrete, Gonzalez Obando & Carrejo. Genus assigned to Eolachesillinae: Graphocaeciliini.

**Dagualachesilloides caliensis**\* Garcia Aldrete, Gonzalez Obando & Carrejo, 2013a: 562. Colombia (V). Colombia (V): Gonzalez Obando *et al.*, 2013.

**Graphocaecilius** spec. Colombia (V): Gonzalez Obando *et al.*, 2013.

**Graphocaecilius interpretatus** Roesler. Colombia (V): Gonzalez Obando *et al.*, 2013.

**Graphocaecilius peruvianus** Mockford & Sullivan. Colombia (V): Gonzalez Obando *et al.*, 2013.

**Graphocaecilius vartyi** Turner. Colombia (V): Gonzalez Obando *et al.*, 2013.

**Hemicaecilius** spec. Colombia (V): Gonzalez Obando *et al.*, 2013.

**Hemicaecilius mockfordi** Garcia Aldrete, Gonzalez Obando & Carrejo, 2012. Colombia (V): Gonzalez Obando *et al.*, 2013.

**Hemicaecilius nicolasi** Garcia Aldrete, Gonzalez Obando & Carrejo, 2012. Colombia (V): Gonzalez Obando *et al.*, 2013.

**Hemicaecilius rauli** Garcia Aldrete, Gonzalez Obando & Carrejo, 2012. Colombia (V): Gonzalez Obando *et al.*, 2013.

**Hemicaecilius smithersi** Garcia Aldrete, Gonzalez Obando & Carrejo, 2012. Colombia (V): Gonzalez Obando *et al.*, 2013.

**Lachesilla** Westwood. Key to females of South American species of the *andra* group: Garcia Aldrete & Silva Neto, 2013: 395.

Key to species groups from Valle del Cauca and PNN Gorgona, Colombia: Gonzalez Obando *et al.*, 2013: 59.

**Lachesilla** spec. Mexico (IV): Garcia Aldrete, 2011c, 2011d. Colombia (V): Gonzalez Obando *et al.*, 2013

**Lachesilla acuminiforceps** Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c, 2011d.

**Lachesilla anahuacensis** Mockford, 2002a. Mexico (IV): Garcia Aldrete, 2011c, 2011d.

**Lachesilla asperiforceps** Garcia Aldrete, 2001f. Mexico (IV): Garcia Aldrete, 2011c.

**Lachesilla aethiopica** (Enderlein). Mexico (IV): Garcia Aldrete, 2011c, 2011d. Colombia (V): Gonzalez Obando *et al.*, 2013.

**Lachesilla aspera** Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011d.

**Lachesilla asymmetriproctus** Garcia Aldrete, 2008b. Male terminalia figured: Garcia Aldrete *et al.*, 2013c (name misspelled *assymetriproctus*).

**Lachesilla bicornata** New & Thornton. Colombia (V): Gonzalez Obando *et al.*, 2013.

**Lachesilla bifurcata** Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c, 2011d.

**Lachesilla bottimeri** Mockford & Gurney. Mexico (IV): Garcia Aldrete, 2011d.

*Lachesilla carinata* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Lachesilla carpinteroi* Garcia Aldrete, 2010a. Male terminalia figured: Garcia Aldrete *et al.*, 2013c.  
*Lachesilla centralis* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011d.  
*Lachesilla cerorma* Garcia Aldrete, 2010a. Male terminalia figured: Garcia Aldrete *et al.*, 2013c.  
*Lachesilla cesarcardonai*\* Garcia Aldrete, Gonzalez Obando & Saldaña, 2013: 55. Colombia (V).  
*Lachesilla chamula* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c.  
*Lachesilla chiapensis* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c.  
*Lachesilla cintalapa* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c.  
*Lachesilla convexcicornis* Garcia Aldrete, 2008b. Male terminalia figured: Garcia Aldrete *et al.*, 2013c.  
*Lachesilla cuala* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Lachesilla cupressicola* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c.  
*Lachesilla curviforceps* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011d.  
*Lachesilla dasylirionicola* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011d.  
*Lachesilla delta* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011d.  
*Lachesilla denticulata* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Lachesilla diamantina*\* Garcia Aldrete & Silva Neto, 2013: 392 (assigned to *andra* group). Brazil (V).  
*Lachesilla disjuncta* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c.  
*Lachesilla dispariforceps* Mockford. Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Lachesilla ecuatoriana* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c. Colombia (V): Gonzalez Obando *et al.*, 2013.  
*Lachesilla estradaorum* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011d.  
*Lachesilla fuscipalpis* Badonnel. Mexico (IV): Garcia Aldrete, 2011c, 2011d; Casasola-Gonzalez *et al.*, 2013 (ecology).  
*Lachesilla gamma* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011d.  
*Lachesilla gracilis* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c.  
*Lachesilla graminicola* Badonnel. Colombia (V): Gonzalez Obando *et al.*, 2013.  
*Lachesilla guentheri* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c.  
*Lachesilla hermosa* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011d.  
*Lachesilla huasteca* Mockford, 2002a. Mexico (IV): Garcia Aldrete, 2011d.  
*Lachesilla ilama*\* Garcia Aldrete, Gonzalez Obando & Saldaña, 2013: 57. Colombia (V).  
*Lachesilla ixtlanensis*\* Garcia Aldrete & Casasola Gonzalez, 2012: 137. Mexico (IV).  
*Lachesilla juniperana* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011d.  
*Lachesilla kathrynae* Mockford & Gurney. Mexico (IV): Garcia Aldrete, 2011d.  
*Lachesilla lachataoensis*\* Garcia Aldrete & Casasola Gonzalez, 2012: 137. Mexico (IV).  
*Lachesilla lacinosiforceps* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Lachesilla lapadoce*\* Garcia Aldrete & Silva Neto, 2013: 394 (assigned to *andra* group). Brazil, Paraguay (V).  
*Lachesilla leonilae* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c, 2011d. Colombia (V): Gonzalez Obando *et al.*, 2013.  
*Lachesilla macropudenda* Garcia Aldrete, 2008b. Male terminalia figured: Garcia Aldrete *et al.*, 2013c.  
*Lachesilla maculata* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Lachesilla monticola* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c.  
*Lachesilla nita* Sommerman. Mexico (IV): Garcia Aldrete, 2011c.  
*Lachesilla nuptialis* Badonnel & Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c, 2011d. Colombia (V): Gonzalez Obando *et al.*, 2013.  
*Lachesilla otomi* Mockford, 2002a. Mexico (IV): Garcia Aldrete, 2011c.  
*Lachesilla palmicola* Garcia Aldrete. Mexico (IV): Casasola-Gonzalez *et al.*, 2013 (ecology).  
*Lachesilla pedicularia* (Linnaeus). Czech Republic, Slovakia (I): Holusa, 2011, 2012a, 2012b, 2013 (ecol.). Mexico (IV): Garcia Aldrete, 2011c.  
*Lachesilla penta* Sommerman. Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Lachesilla perezi* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011d.  
*Lachesilla picticeps* Mockford. Mexico (IV): Garcia Aldrete, 2011c.  
*Lachesilla pigmentithorax* Garcia Aldrete. Colombia (V): Gonzalez Obando *et al.*, 2013.  
*Lachesilla punctata* (Banks). Mexico (IV): Garcia Aldrete, 2011d.  
*Lachesilla quercus* (Kolbe). Czech Republic, Slovakia (I): Holusa, 2010, 2011, 2012a, 2012b, 2013 (ecol.).  
*Lachesilla rectiforceps* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Lachesilla rugosa* Garcia Aldrete. Colombia (V): Gonzalez Obando *et al.*, 2013.  
*Lachesilla sandersoni* Mockford. Mexico (IV): Garcia Aldrete, 2011d.  
*Lachesilla silvatica* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c, 2011d.

*Lachesilla sommermanae* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c.  
*Lachesilla sulcata* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Lachesilla taxodicola* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c.  
*Lachesilla tectorum* Badonnel. Mexico (IV): Garcia Aldrete, 2011c, 2011d; Casasola-Gonzalez *et al.*, 2013 (ecology).  
*Lachesilla tehuautlensis* Garcia Aldrete. Mexico (IV): Casasola-Gonzalez *et al.*, 2013 (ecology).  
*Lachesilla texcocana* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c.  
*Lachesilla tropica* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Lachesilla turneri* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c.  
*Lachesilla unsijensis*\* Garcia Aldrete & Casasola Gonzalez, 2012: 136. Mexico (IV).  
*Lachesilla williamsi* Garcia Aldrete, 2010a. Male terminalia figured: Garcia Aldrete *et al.*, 2013c.  
*Lachesilla wongae* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011d.  
*Lachesilla xalapensis* Garcia Aldrete, 2001e. Mexico (IV): Garcia Aldrete, 2011d.  
*Lachesilla yanomamioides* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Mesolachesilla* spec. Colombia (V): Gonzalez Obando *et al.*, 2013.  
*Nadleria* spec. Colombia (V): Gonzalez Obando *et al.*, 2013 (ca. *mockfordi* Badonnel & Garcia Aldrete, erroneously mentioned as *Lachesilla* ca. *mockfordi*).  
*Nadleria mariateresae* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c.  
*Nanolachesilla hirundoides* Mockford & Sullivan. Mexico (IV): Garcia Aldrete, 2011d.  
*Nanolachesilla nanciae* (Turner). Mexico (IV): Garcia Aldrete, 2011d.  
*Notolachesilla* spec. Colombia (V): Gonzalez Obando *et al.*, 2013.  
*Prolachesilla* spec. Colombia (V): Gonzalez Obando *et al.*, 2013.  
*Prolachesilla mexicana* Mockford & Sullivan. Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Prolachesilla pallida* Mockford & Sullivan. Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Prolachesilla poblana* Mockford & Sullivan. Mexico (IV): Garcia Aldrete, 2011c.  
*Tricholachesilla alata* Mockford & Sullivan. Colombia (V): Gonzalez Obando *et al.*, 2013.

#### Ectopsocidae

*Ectopsocus* spec. Mexico (IV): Garcia Aldrete, 2011c. New Zealand (IX): Smithers, 2010. Parasit.: Toledo *et al.*, 2013 (fungus).  
*Ectopsocus axillaris* (Smithers). New Zealand (IX): Smithers, 2010.  
*Ectopsocus briggsi* McLachlan. Mexico (IV): Garcia Aldrete, 2011c, 2011d. New Zealand (IX): Smithers, 2010.  
*Ectopsocus californicus* (Banks). New Zealand (IX): Smithers, 2010.  
*Ectopsocus chiapensis* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c.  
*Ectopsocus chiapensoides* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011d.  
*Ectopsocus coronatus* Smithers. New Zealand (IX): Smithers, 2010.  
*Ectopsocus dialeptus* Thornton & Wong. New Zealand (IX): Smithers, 2010.  
*Ectopsocus eertmoedi* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011d.  
*Ectopsocus formosus* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011d.  
*Ectopsocus gracilis* Thornton & Wong. New Zealand (IX): Smithers, 2010.  
*Ectopsocus maindroni* Badonnel. Bahamas (III): Mockford, 2012b. Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Ectopsocus meridionalis* Ribaga. Czech Republic, Slovakia (I): Holusa, 2010, 2011, 2012a, 2012b, 2013 (ecol.). Luxembourg (I): Schneider & Weber, 2013. Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Ectopsocus mexicanus* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c.  
*Ectopsocus obscurus* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011d.  
*Ectopsocus petersi* Smithers. New Zealand (IX): Smithers, 2010.  
*Ectopsocus richardsi* (Pearman). Mexico (IV): Cordova Ballona *et al.*, 2011 (pest).  
*Ectopsocus thibaudi* Badonnel. Bahamas (III): Mockford, 2012b. Mexico (IV): Garcia Aldrete, 2011d.  
*Ectopsocus thorntoni* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011d.  
*Ectopsocus titschacki* Jentsch. Mexico (IV): Garcia Aldrete, 2011c, 2011d. Brazil (V): Silva-Neto *et al.*, 2013 (with remarks on knowledge of Brazilian psocids).  
*Ectopsocus tuxtlarum* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011d.  
*Ectopsocus vachoni* Badonnel. Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Ectopsocus veracruzensis* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011d.  
*Ectopsocus vilhenai* Badonnel. Mexico (IV): Garcia Aldrete, 2011c, 2011d.

## Peripsocidae

*Kaestneriella minor* Mockford & Wong. Mexico (IV): Garcia Aldrete, 2011c.

*Kaestneriella obscura* Mockford & Wong. Mexico (IV): Garcia Aldrete, 2011d.

*Kaestneriella setosa* Mockford & Wong. Mexico (IV): Garcia Aldrete, 2011c, 2011d.

*Peripsocus* spec. Mexico (IV): Garcia Aldrete, 2011c, 2011d; Casasola-Gonzalez *et al.*, 2013 (ecology).  
New Zealand (IX): Smithers, 2010.

*Peripsocus alboguttatus* (Dalman). Czech Republic, Slovakia (I): Holusa, 2010, 2011, 2012a, 2012b, 2013 (ecol.).

*Peripsocus didymus* Roesler. Czech Republic, Slovakia (I): Holusa, 2010, 2011, 2012a, 2012b, 2013 (ecol.).

*Peripsocus longivalvus* Badonnel. Mexico (IV): Garcia Aldrete, 2011c.

*Peripsocus madescens* (Walsh). Mexico (IV): Garcia Aldrete, 2011d.

*Peripsocus maoricus* (Tillyard). New Zealand (IX): Smithers, 2010.

*Peripsocus milleri* (Tillyard). New Zealand (IX): Smithers, 2010.

*Peripsocus morulops* (Tillyard). New Zealand (IX): Smithers, 2010.

*Peripsocus parvulus* Kolbe. Czech Republic, Slovakia (I): Holusa, 2011, 2012a, 2012b, 2013 (ecol.).

*Peripsocus pauliani* Badonnel. Bahamas (III): Mockford, 2012b. Mexico (IV): Garcia Aldrete, 2011d.

*Peripsocus phaeopterus* (Stephens). Czech Republic, Slovakia (I): Holusa, 2011, 2012a, 2012b, 2013 (ecol.).  
Russia (I): Kanervo & Kozlov, 2014 (ecol.).

*Peripsocus potosi* Mockford. Mexico (IV): Garcia Aldrete, 2011d.

*Peripsocus subfasciatus* (Rambur). Czech Republic, Slovakia (I): Holusa, 2010, 2011, 2012a, 2012b, 2013 (ecol.).  
Russia (I): Kanervo & Kozlov, 2014 (ecol.).

## Trichopsocidae

*Trichopsocus clarus* (Banks). New Zealand (IX): Smithers, 2010.

*Trichopsocus maculosus* Mockford. Mexico (IV) in amber (A): Garcia Aldrete, 2011c.

## Archipsocidae

*Archipsocopsis antigua* (Mockford). Mexico (IV): Garcia Aldrete, 2011c (as *A. antiquus*).

*Archipsocopsis frater* (Mockford). Mexico (IV): Garcia Aldrete, 2011d.

*Archipsocus* spec. Bahamas (III): Mockford, 2012b. Mexico (IV): Garcia Aldrete, 2011c, 2011d.

*Pararchipsocus poblanus* Badonnel, Mockford & Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c, 2011d.

*Pararchipsocus radulosus* Badonnel, Mockford & Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011c.

*Pseudarchipsocus veracruzanus* Badonnel, Mockford & Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011d.

## Pseudocaeciliidae

*Austropsocus* spec. New Zealand (IX): Smithers, 2010.

*Austropsocus apicipunctatus* (Tillyard). New Zealand (IX): Smithers, 2010.

*Austropsocus australis* Thornton Wong & Smithers. New Zealand (IX): Smithers, 2010.

*Austropsocus chathamensis* Thornton, Wong & Smithers. New Zealand (IX): Smithers, 2010.

*Austropsocus delli* Smithers. New Zealand (IX): Smithers, 2010.

*Austropsocus fasciatus* Thornton, Wong & Smithers. New Zealand (IX): Smithers, 2010.

*Austropsocus hyalinus* Thornton, Wong & Smithers. New Zealand (IX): Smithers, 2010.

*Austropsocus insularis* Smithers. New Zealand (IX): Smithers, 2010.

*Austropsocus nimbosus* Thornton, Wong & Smithers. New Zealand (IX): Smithers, 2010.

*Austropsocus ramsayi* Thornton, Wong & Smithers. New Zealand (IX): Smithers, 2010.

*Austropsocus salmoni* Smithers. New Zealand (IX): Smithers, 2010.

*Chorocaecilius brunellus* (Tillyard). New Zealand (IX): Smithers, 2010.

*Heterocaecilius* spec. Parasit.: Toledo *et al.*, 2013 (fungus).

*Heterocaecilius badonneli* Garcia Aldrete. Mexico (IV): Garcia Aldrete, 2011d.

*Mepleres watti* (Smithers). New Zealand (IX): Smithers, 2010.

*Pseudocaecilius citricola* (Ashmead). Mexico (IV): Garcia Aldrete, 2011c, 2011d.

*Pseudocaecilius tahitiensis* (Karny). Bahamas (III): Mockford, 2012b. Mexico (IV): Garcia Aldrete, 2011c, 2011d.

*Pseudocaecilius similis* Turner. **Synonymy:** Mockford, 2012b: 5.

*Scytopsocus coriaceus* Roesler. Mexico (IV): Garcia Aldrete, 2011c, 2011d.

*Zelandopsocus formosellus* Tillyard. New Zealand (IX): Smithers, 2010.

*Zelandopsocus kuscheli* Thornton, Wong & Smithers. New Zealand (IX): Smithers, 2010.

*Zelandopsocus tectus* Thornton, Wong & Smithers. New Zealand (IX): Smithers, 2010.

### **Bryopsocidae**

*Bryopsocus angulatus* (Smithers). New Zealand (IX): Smithers, 2010.

*Bryopsocus townsendi* (Smithers). New Zealand (IX): Smithers, 2010.

### **Philotarsidae**

*Aaroniella* spec. Mexico (IV): Garcia Aldrete, 2011c, 2011d.

*Aaroniella rawlingsi* Smithers. New Zealand (IX): Smithers, 2010.

*Garcialdretia chiapensis* Mockford, 2007. Mexico (IV): Garcia Aldrete, 2011c.

*Garcialdretia veracruzensis* Mockford, 2007. Mexico (IV): Garcia Aldrete, 2011d.

*Haplophallus* spec. Mexico (IV): Garcia Aldrete, 2011d.

*Haplophallus maculatus* (Tillyard). New Zealand (IX): Smithers, 2010.

*Philotarsopsis basipunctata* (Thornton, Wong & Smithers). New Zealand (IX): Smithers, 2010.

*Philotarsopsis guttata* (Tillyard). New Zealand (IX): Smithers, 2010 (as *P. guttatus*).

*Philotarsopsis parda* (Thornton, Wong & Smithers). New Zealand (IX): Smithers, 2010.

*Philotarsus* spec. Russia (I): Kanervo & Kozlov, 2014 (ecol.). Mexico (IV): Garcia Aldrete, 2011c, 2011d

*Philotarsus incurvatus* Mockford, 2007. Mexico (IV): Garcia Aldrete, 2011d.

*Philotarsus parviceps* Roesler. Czech Republic, Slovakia (I): Holusa, 2010, 2011, 2012a, 2012b, 2013 (ecol.).

*Philotarsus picicornis* (Fabricius). Czech Republic, Slovakia (I): Holusa, 2011, 2012a, 2012b, 2013 (ecol.).

### **Elipsocidae**

*Cuneopalpus cyanops* (Rostock). Czech Republic, Slovakia (I): Holusa, 2011, 2012a, 2012b, 2013 (ecol.).

*Elipsocus* spec. Mexico (IV): Garcia Aldrete, 2011c.

*Elipsocus abdominalis* Reuter. Czech Republic, Slovakia (I): Holusa, 2011, 2012a, 2012b, 2013 (ecol.). Finland, Russia (I): Kanervo & Kozlov, 2014 (ecol.).

*Elipsocus hyalinus* (Stephens). Czech Republic, Slovakia (I): Holusa, 2011, 2012a, 2012b, 2013 (ecol.).

*Elipsocus moebiusi* Tetens. Czech Republic, Slovakia (I): Holusa, 2011, 2012a, 2012b, 2013 (ecol.).

*Elipsocus pumilis* (Hagen). Czech Republic, Slovakia (I): Holusa, 2011, 2012a, 2012b, 2013 (ecol.).

*Hemineura dispar* Tetens. Czech Republic, Slovakia (I): Holusa, 2011, 2012a, 2012b, 2013 (ecol.). Russia (I): Kanervo & Kozlov, 2014 (ecol.).

*Nepiomorpha brasiliiana* Badonnel. Mexico (IV): Garcia Aldrete, 2011c, 2011d.

*Paedomorpha gayi* Smithers. New Zealand (IX): Smithers, 2010.

*Pentacladus eucalypti* Enderlein. New Zealand (IX): Smithers, 2010.

*Propsocus pulchripennis* (Perkins). New Zealand (IX): Smithers, 2010.

*Reuterella helvimacula* (Enderlein). Czech Republic, Slovakia (I): Holusa, 2011, 2012a, 2012b, 2013 (ecol.).

*Sandropsocus clarki* Smithers. New Zealand (IX): Smithers, 2010.

*Spilopsocus annulatus* Smithers. New Zealand (IX): Smithers, 2010.

*Spilopsocus avius* Smithers. New Zealand (IX): Smithers, 2010.

*Spilopsocus stigmaticus* (Tillyard). New Zealand (IX): Smithers, 2010.

### **Sabulopsocidae**

*Sabulopsocus tractuosus* Smithers. New Zealand (IX): Smithers, 2010.

### **Mesopsocidae**

*Mesopsocus immunis* (Stephens). Norway (I): Kanervo & Kozlov, 2014 (ecol.).

*Mesopsocus laticeps* (Kolbe). Czech Republic, Slovakia (I): Holusa, 2010, 2011, 2012a, 2012b, 2013 (ecol.).

*Mesopsocus unipunctatus* (Müller). Czech Republic, Slovakia (I): Holusa, 2011, 2012a, 2012b, 2013 (ecol.). Russia (I): Kanervo & Kozlov, 2014 (ecol.).

### **Hemipsocidae**

*Hemipsocus africanus* Enderlein. Mexico (IV): Garcia Aldrete, 2011c, 2011d.

*Hemipsocus chloroticus* (Hagen). Mexico (IV): Garcia Aldrete, 2011d.

## Psocidae

- Amphigerontia* spec. Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Amphigerontia bifasciata* (Latreille). Czech Republic, Slovakia (I): Holusa, 2011, 2012a, 2012b, 2013 (ecol.).  
*Amphigerontia contaminata* (Stephens). Czech Republic, Slovakia (I): Holusa, 2011, 2012a, 2012b, 2013 (ecol.).  
*Amphigerontia montivaga* (Chapman). Mexico (IV): Garcia Aldrete, 2011d.  
*Amphigerontia petiolata* (Banks). Mexico (IV): Garcia Aldrete, 2011d.  
*Atlantopsocus personatus* (Hagen). Ireland (I): Alexander, 2013.  
*Atrichadenotecnum* Yoshizawa. Liu Luxi *et al.*, 2013b: checklist of species and identification key to species.  
*Atrichadenotecnum forcipatum* (Li Fasheng, 2002a). Liu Luxi *et al.*, 2013b: 461 (from *Clematostigma*).  
*Atrichadenotecnum guangzhouense* (Li Fasheng, 2002a). Liu Luxi *et al.*, 2013b: 461 (from *Psocomesites*).  
*Atrichadenotecnum laricolum* (Li Fasheng, 2002a). Liu Luxi *et al.*, 2013b: 461 (from *Psocomesites*).  
*Atrichadenotecnum multidontatum* (Li Fasheng). Liu Luxi *et al.*, 2013b: 461 (from *Psocomesites*).  
*Atrichadenotecnum multispinosum*\* Liu Luxi, Yoshizawa, Li Fasheng & Liu Zhiqi, 2013: 462 (as *A. multispinosus*). China (VIII).  
*Atrichadenotecnum trifurcatum* (Li Fasheng). Liu Luxi *et al.*, 2013b: 461 (from *Psocomesites*).  
*Psocomesites bimaculatus* Li Fasheng. **Synonymy:** Liu Luxi *et al.*, 2013b: 461.  
*Atrichadenotecnum tayal* Yoshizawa. **Synonymy:** Liu Luxi *et al.*, 2013b: 461.  
*Clematostigma excavatum* Li Fasheng, 2002a. **Synonymy:** Liu Luxi *et al.*, 2013b: 461.  
*Psocomesites edentalum* Li Fasheng, 2005b. **Synonymy:** Liu Luxi *et al.*, 2013b: 461.  
*Blaste* spec. Mexico (IV): Garcia Aldrete, 2011c, 2011d; Casasola-Gonzalez *et al.*, 2013 (ecology).  
*Blaste bahamensis*\* Mockford, 2012b: 5. Bahamas (III).  
*Blaste garciorum* Mockford. Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Blaste posticata* (Banks). Mexico (IV): Garcia Aldrete, 2011c, 2011d; Casasola-Gonzalez *et al.*, 2013 (ecology).  
*Blaste quadrimaculata* (Latreille). Czech Republic, Slovakia (I): Holusa, 2011, 2012a, 2012b, 2013 (ecol.).  
*Blaste tillyardi* Smithers. New Zealand (IX): Smithers, 2010.  
*Blastopsocus* spec. Mexico (IV): Garcia Aldrete, 2011c, 2011d; Casasola-Gonzalez *et al.*, 2013 (ecology).  
*Cerastipsocus* spec. Mexico (IV): Garcia Aldrete, 2011c.  
*Cerastipsocus reductus* (Banks). Mexico (IV): Garcia Aldrete, 2011d.  
*Cerastipsocus trifasciatus* (Provancher). Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Cerastipsocus venosus* (Burmeister). Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Clematoscenea* Enderlein. Liu Luxi *et al.*, 2013a: checklist of species and identification key to species.  
*Clematoscenea spinosa*\* Liu Luxi, Li Fasheng & Liu Zhiqi, 2013: 384 (as *C. spinosus*). China (VIII).  
*Clematoscenea yunnanica* Li Fasheng, 2002a. Redescription: Liu Luxi *et al.*, 2013a: 386; China (VIII).  
*Ghesquierella cantralli* Mockford. Mexico (IV): Garcia Aldrete, 2011c.  
*Hyalopsocus* spec. Mexico (IV): Garcia Aldrete, 2011d; Casasola-Gonzalez *et al.*, 2013 (ecology).  
*Indiopsocus* Mockford. Augmentations to generic description, definition of *affinis* species complex: Mockford, 2012b: 6.  
*Indiopsocus* spec. Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Indiopsocus bisignatus* (Banks). Mexico (IV): Garcia Aldrete, 2011d; Casasola-Gonzalez *et al.*, 2013 (ecology).  
*Indiopsocus campestroides*\* Mockford, 2012b: 7. Bahamas (III).  
*Indiopsocus caribe*\* Mockford, 2012b: 8. Bahamas (III).  
*Indiopsocus fallax*\* Mockford, 2012b: 9. Bahamas (III).  
*Indiopsocus texanus* (Aaron). Bahamas (III): Mockford, 2012b.  
*Loensia fasciata* (Fabricius). Czech Republic, Slovakia (I): Holusa, 2011, 2012a, 2012b, 2013 (ecol.).  
*Loensia pearmani* Kimmins. Czech Republic, Slovakia (I): Holusa, 2011, 2012a, 2012b, 2013 (ecol.).  
*Loensia variegata* (Latreille). Czech Republic, Slovakia (I): Holusa, 2011, 2012a, 2012b, 2013 (ecol.).  
*Longivalvus hyalospilus* Li Fasheng, 2002a. Genet.: Li Hu *et al.*, 2013 (mitochondrial genome).  
*Metylophorus* spec. Mexico (IV): Garcia Aldrete, 2011c, 2011d; Casasola-Gonzalez *et al.*, 2013 (ecology).  
*Metylophorus barretti* (Banks). Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Metylophorus nebulosus* (Stephens). Czech Republic, Slovakia (I): Holusa, 2010, 2011, 2012a, 2012b, 2013 (ecol.). Finland, Russia (I): Kanervo & Kozlov, 2014 (ecol.).  
*Metylophorus novaescotiae* (Walker). Mexico (IV): Garcia Aldrete, 2011d.  
*Psocidus* spec. Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Psococerastis albimaculata* Li Fasheng & Yang Chikun. Genet.: Li Hu *et al.*, 2013 (mitochondrial genome).



*Psococerastis fasciata* Mockford. Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Psococerastis gibbosa* (Sulzer). Czech Republic, Slovakia (I): Holusa, 2010, 2011, 2012a, 2012b, 2013 (ecol.). Russia (I): Kanervo & Kozlov, 2014 (ecol.).  
*Psococerastis opulenta* (Navas). Mexico (IV): Garcia Aldrete, 2011c.  
*Ptycta* Enderlein. Bess, 2011: review of the species from Hawaii (X), definition of species groups, biogeography, proposition of synonymies (not validly published under article 8 of ICZN).  
*Ptycta* spec. Mexico (IV): Garcia Aldrete, 2011c, 2011d; Casasola-Gonzalez *et al.*, 2013 (ecology).  
*Ptycta tikala* (Mockford). Mexico (IV): Garcia Aldrete, 2011d.  
*Steleops* spec. Mexico (IV): Garcia Aldrete, 2011d.  
*Steleops monticola* Garcia Aldrete. Mexico (IV): Casasola-Gonzalez *et al.*, 2013 (ecology).  
*Thyrsopsocus psocoides* Enderlein. Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Trichadenotecnum* spec. Mexico (IV): Garcia Aldrete, 2011d.  
*Trichadenotecnum aconcinnum* Yoshizawa, Garcia Aldrete & Mockford, 2008. Mexico (IV): Garcia Aldrete, 2011c.  
*Trichadenotecnum barrerai* Yoshizawa, Garcia Aldrete & Mockford, 2008. Mexico (IV): Garcia Aldrete, 2011c.  
*Trichadenotecnum brevicornum* Yoshizawa, Garcia Aldrete & Mockford, 2008. Mexico (IV): Garcia Aldrete, 2011c (as *T. brevicornis*).  
*Trichadenotecnum chiapense* Yoshizawa, Garcia Aldrete & Mockford, 2008. Mexico (IV): Garcia Aldrete, 2011c (as *T. chiapensis*), 2011d.  
*Trichadenotecnum cintalapense* Yoshizawa, Garcia Aldrete & Mockford, 2008. Mexico (IV): Garcia Aldrete, 2011c (as *T. cintalapensis*).  
*Trichadenotecnum concinnum* Yoshizawa, Garcia Aldrete & Mockford, 2008. Mexico (IV): Garcia Aldrete, 2011d.  
*Trichadenotecnum desolatum* (Chapman). Mexico (IV): Casasola-Gonzalez *et al.*, 2013 (ecology).  
*Trichadenotecnum ericium* Yoshizawa, Garcia Aldrete & Mockford, 2008. Mexico (IV): Garcia Aldrete, 2011d.  
*Trichadenotecnum guttatum* Yoshizawa, Garcia Aldrete & Mockford, 2008. Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Trichadenotecnum incognitum* Roesler. Russia (I): Kanervo & Kozlov, 2014 (ecol.).  
*Trichadenotecnum magnolingum* Yoshizawa, Garcia Aldrete & Mockford, 2008. Mexico (IV): Garcia Aldrete, 2011d.  
*Trichadenotecnum majus* (Kolbe). Czech Republic, Slovakia (I): Holusa, 2010, 2011, 2012a, 2012b, 2013 (ecol.). Russia (I): Kanervo & Kozlov, 2014 (ecol.).  
*Trichadenotecnum pardus* Badonnel. Mexico (IV): Garcia Aldrete, 2011d.  
*Trichadenotecnum sexpunctatum* (Linnaeus). Czech Republic, Slovakia (I): Holusa, 2011, 2012a, 2012b, 2013 (ecol.).  
*Trichadenotecnum slossonae* (Banks). Mexico (IV): Garcia Aldrete, 2011c.

#### Myopsocidae

*Lichenomima* spec. Mexico (IV): Garcia Aldrete, 2011c, 2011d.  
*Lichenomima sparsa* (Hagen). Mexico (IV): Garcia Aldrete, 2011d.  
*Lichenomima varia* (Navas). Mexico (IV): Garcia Aldrete, 2011d.  
*Myopsocus* spec. Mexico (IV): Garcia Aldrete, 2011c.  
*Myopsocus australis* (Brauer). New Zealand (IX): Smithers, 2010.  
*Myopsocus minutus* (Mockford). Mexico (IV): Garcia Aldrete, 2011c, 2011d.

#### 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 12 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-authors"-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.

For a **subject bibliography** see: <http://www.ville-ge.ch/mhng/psocoptera/page/ps-bibli.htm>

- Alexander, K. N. A. 2013. Confirmation of the barkfly *Atlantopsocus personatus* (Hagen) (Insecta: Psocoptera) as an Irish species. *Irish Naturalists' Journal* 32(1): 72.
- Anonymous 2012. A curious underground phenomenon. Microcrystals found coating the wings of an insect living in a cave. *The Underground Movement* 12(12): 16, 3 figs. (NOTE: This is a summary of Lienhard *et al.*, 2012).
- Athanassiou, C. G., Kavallieratos, N. G., Arthur, F. H. & Throne, J. E. 2013. Efficacy of a combination of Beta-Cyfluthrin and Imidacloprid and Beta-Cyfluthrin alone for control of stored-product insects on concrete. *Journal of Economic Entomology* 106(2): 1064-1070. **(Only abstract seen)**.
- Bess, E. 2011 [unpublished PhD thesis]. Biogeography and phylogenetics of Hawaiian bark lice. *Graduate College of the University of Illinois at Urbana-Champaign*, vi+115 pp.
- Cardoso, C. F. & Silveira, F. A. 2012. Nesting biology of two species of *Megachile* (*Mourepis*) (Hymenoptera: Megachilidae) in a semideciduous forest reserve in southeastern Brazil. *Apidologie* 43(1): 71-81.
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- Cordova Ballona, L., Sanchez Soto, S., Garcia Lopez, E. & Ortiz Garcia, C. F. 2011. Insectos asociados a alimentos vegetales deteriorables en tiendas de autoservicio, en Tabasco, Mexico. *Boletín del Museo de Entomología de la Universidad del Valle* 12(1): 25-32.
- Denton, J. 2011. Notes on the ecology of *Valenzuela atricornis* (McLachlan) (Psoc.: Caeciliusidae) in England. *British Journal of Entomology and Natural History* 24(4): 210.
- Dou Wei, Shen Guang-Mao, Niu Jin-Zhi, Ding Tian-Bo, Wei Dan-Dan & Wang Jin-Jun 2013. Mining genes involved in insecticide resistance of *Liposcelis bostrychophila* Badonnel by transcriptome and expression profile analysis. *PLoS One* 8(11). DOI: 10.1371/journal.pone.0079878. **(Only abstract seen)**.
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- Garcia Aldrete, A. N. 2011c. Psocoptera (Insecta) de Chiapas (pp. 315-343). In: Alvarez, F. (ed.). *Chiapas: estudios sobre su diversidad biológica. Universidad Nacional Autonoma de Mexico, Mexico*, 518 pp.
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## 5. Corrections to Lienhard & Smithers, 2002

**Remark:** The "Correction" refers to the page of Lienhard & Smithers (2002).

010: *Ptenocorium* already considered as a synonym of *Cyrtophania* by Thornton *et al.*, 1972: 62. Synonymy considered as somewhat doubtful by Thornton, 1981f: 19.

## EDITORIAL

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

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