Checklist of known moth flies and sand flies (Diptera, Psychodidae) from Armenia and Azerbaijan

Jan Ježek¹, Peter Manko², Jozef Oboña²

¹ Department of Entomology, Cirkusová 1740, CZ – 193 00 Praha 9 – Horní Počernice, Czech Republic
² Department of Ecology, Faculty of Humanities and Natural Sciences, University of Prešov, 17. novembra 1, SK – 081 16 Prešov, Slovakia

Corresponding author: Jozef Oboña (obonaj@centrum.sk)

Academic editor: Gunnar Kvifte | Received 9 May 2018 | Accepted 22 October 2018 | Published 21 November 2018

Citation: Ježek J, Manko P, Oboña J (2018) Checklist of known moth flies and sand flies (Diptera, Psychodidae) from Armenia and Azerbaijan. ZooKeys 798: 109–133. https://doi.org/10.3897/zookeys.798.26543

Abstract
All credible and available published records for 17 species of moth flies known so far from Armenia (Phlebotominae 11 species, Psychodinae 6 species) and Azerbaijan (Phlebotominae 18 species) are summarized. The first records of 18 species of Psychodinae (tribes Mormiini, Paramormiini, Psychodini, Pericomaini) from Armenia and 6 new faunistic records (tribes Psychodini, Pericomaini) for the fauna of Azerbaijan are listed. The checklist of recent moth flies from Armenia includes now 35 species, and from Azerbaijan, 24 species.

Keywords
Caucasus, checklist, Diptera, faunistics, first records, Phlebotominae, Psychodidae, Psychodinae

Introduction
As mentioned by Oboña et al. (2017b), the Caucasus is among the top 25 biologically richest and most endangered hotspots in the world, with an exceptional concentration of endemic species and species at risk. It is also one of the ecoregions of WWF’s Global 200 project, which were identified as having outstanding terrestrial, freshwater, and marine habitats (Myers et al. 2000; Krever et al. 2001). The remarkable richness of the flora and fauna is determined by complex orography, geology, and climate and results...
in a variety of habitats, landscapes, and microclimates in this mountain range at the border of Europe and Asia and at the junction of temperate and subtropical zones. This area is affected by both Atlantic air masses and the dry continental climate of continental Eurasia (Price 2000).

The location of this area creates favourable conditions for entomological research. However, several families of flies have not been well studied in the Caucasus, and in particular, in Armenia and Azerbaijan (Oboňa et al. 2016b, 2017b).

Moth flies (Psychodidae) are represented only by 17 species previously recorded in Armenia (mainlyPerfil’ev 1966; Lewis 1982; Artemiev and Neronov 1984; Vaillant 1972; Wagner 1981, 1990, 2013; Wagner and Joost 1986; Wagner et al. 2002; Melaun et al. 2014; Oboňa et al. 2017a). These species belong to subfamilies Phlebotominae [11 species: Phlebotomus (P) patatasi (Scopoli, 1786); P. (Paraphlebotomus) alexandri Sinton, 1928; P. (P) cucasicus Marzinovsky, 1917; P. (P) sergenti Parrot, 1917; P. (P) similis Perfil’ev, 1963; P. (Larroussius) kandelakii Shurenkova, 1929; P. (L) tobbi Adler & Theodor in Adler, Theodor & Lourie, 1930; P. (Adlerius) halepensis Theodor, 1958; P. (A) simici Nitzulescu, 1931; Sergentomyia (Neophlebotomus) pawlowskyi (Perfiliev, 1933); and S. (Parrotomyia) palestinensis (Adler & Theodor, 1927)] and Psychodinae [6 species: Parajungiella monikae (Wagner & Joost, 1986); Paramormia (P) fratercula (Eaton, 1893); Joostiella caucasica Vaillant, 1983; Pericoma (P) exquisita Eaton, 1893; Pneumia joosti (Wagner, 1981); and Thornburghiella veve Oboňa & Ježek, 2017].

From Azerbaijan, 18 species of Psychodidae have been recorded, all belonging to subfamily Phlebotominae [Phlebotomus (P) patatasi (Scopoli, 1786); P. (Paraphlebotomus) alexandri Sinton, 1928; P. (P) cucasicus Marzinovsky, 1917; P. (P) jacusieli Theodor, 1947; P. (P) mongolensis Sinton, 1928; P.(P) sergenti Parrot, 1917; P. (P) similis Perfil’ev, 1963; P. (Larroussius) kandelakii Shurenkova, 1929; P. (L) perfiliewi transcaucasicusPerfiliew, 1937; P. (L) perniciosus Newstead, 1911; P. (L) tobbi Adler & Theodor in Adler, Theodor & Lourie, 1930; P. (Adlerius) balcanicus Theodor, 1958; P. (A) brevis Theodor & Mesghali, 1964; P. (A) halepensis Theodor, 1958; P. (A) simici Nitzulescu, 1931, Sergentomyia (S) dentata Sinton, 1933; S. (Neophlebotomus) pawlowskyi (Perfiliev, 1933); and S. (Parrotomyia) palestinensis (Adler & Theodor, 1927)].

**Material and methods**

The material presented here comes from two different sampling campaigns. The first campaign collected material by sweep-netting vegetation along streams and lakes in Armenia from August 26 to September 4, 2015 by J. Oboňa, P. Manko and Ľ. Hrivniak; it is preserved in 75% ethanol. A list of 28 sampling sites, with coordinates and altitudes, is given in Table 1. Captured moth flies were mounted in Canada balsam on 85 slides in the laboratory. The second collection campaign by Ľ. Hrivniak in Azerbaijan from May 26 to June 4, 2017 used the same collecting methods. Samples were collected at various sites by sweep-netting from vegetation along streams and lakes and
**Table 1.** List of sampling sites in Armenia.

| Site no. | Site name (province, short description of locality) | Latitude (N) | Longitude (E) | Altitude (m) a.s.l. |
|----------|----------------------------------------------------|--------------|---------------|---------------------|
| Arm 1    | Yerevan, Tigran Mets Avenue                        | 40°10'19.6"  | 44°30'49.1"   | 976                 |
| Arm 2    | Kotayk Province, Marmarik district, Marmarik Secondary School | 40°35'04.0"  | 44°40'10.1"  | 1750                |
| Arm 3    | Kotayk Province, Marmarik district, Marmarik near road H28 | 40°35'04.0"  | 44°40'10.1"  | 1750                |
| Arm 4    | Kotayk Province, Marmarik River, below Hankanvan   | 40°38'04.7"  | 44°29'19.4"  | 1974                |
| Arm 5    | Kotayk Province, Hrazdan River, above Solak town   | 40°28'19.7"  | 44°42'42.2"  | 1567                |
| Arm 6    | Kotayk Province, Hrazdan River, below Hrazdan Reservoir | 40°29'12.8"  | 44°43'55.9"  | 1705                |
| Arm 7    | Kotayk Province, tributary of Marmarik River, above Meghрадзор, behind railway | 40°37'12.7"  | 44°40'18.3"  | 1825                |
| Arm 8    | Kotayk Province, tributary of the Marmarik River, above recreation center | 40°33'52.0"  | 44°40'09.1"  | 1872                |
| Arm 9    | Tavush Province, Lake Parz Lich and its tributary, lake Parz Lich | 40°44'57.7"  | 44°57'33.3"  | 1376                |
| Arm 10   | Tavush Province, Bldan River, above the Dilijan City | 40°44'49.1"  | 44°49'03.5"  | 1354                |
| Arm 11   | Tavush Province, Bldan River, below Jukhtakavan monastery and the mineral water factory/plant | 40°45'11.8"  | 44°48'25.7"  | 1411                |
| Arm 12   | Tavush Province, tributary of Aghstev River, above Teghut town | 40°48'09.3"  | 44°53'43.7"  | 1382                |
| Arm 13   | Gegharkunik Province, Dzknaget River, at Sevan Lake and road M14 | 40°37'01.8"  | 44°57'44.2"  | 1930                |
| Arm 14   | Ararat Province, Gekhard River, at Gerghard monastery (parking place) | 40°11'03.2"  | 44°31'18.6"  | 1770                |
| Arm 15   | Ararat Province, Gekhard River, below Garni Temple | 40°08'24.7"  | 44°49'04.2"  | 1240                |
| Arm 16   | Ararat Province, small tributary of Azat River, waterfall at road | 40°06'32.2"  | 44°43'49.3"  | 1249                |
| Arm 17   | Ararat Province, above the confluence of Azat and Gekhard rivers | 40°06'39.4"  | 44°43'45.3"  | 1273                |
| Arm 18   | Ararat Province, small tributary of Gekhard River, crossroad at the factory | 40°07'00.4"  | 44°44'35.7"  | 1340                |
| Arm 19   | Ararat Province, Azat River, at Lanjazat village | 40°03'27.0"  | 44°34'38.3"  | 976                 |
| Arm 20   | Lori Province, tributary of the Aghstev River, above M8 road at Lernon village | 40°45'24.6"  | 44°38'42.0"  | 1853                |
| Arm 21   | Lori Province, Zamanlu River, a tributary of Pambak River, at Vahagnadzor town | 40°53'07.0"  | 44°34'39.0"  | 1092                |
| Arm 22   | Lori Province, tributary of Pambak River, at the H24 road switch-backs | 40°56'52.7"  | 44°37'37.2"  | 1030                |
| Arm 23   | Lori Province, small steppe brook, tributary of Dzoraget River | 41°03'59.9"  | 44°05'44.2"  | 1949                |
| Arm 24   | Shirak Province, tributary of Akhurian River, in valley below road from above Amasian town | 40°58'20.5"  | 43°46'06.9"  | 1987                |
| Arm 25   | Shirak Province, tributary of Akhurian River, at Torosgyugh village | 40°55'55.0"  | 43°52'45.3"  | 1885                |
| Arm 26   | Lori Province, small brook, in valley at the road H23 to Pushkin Pass | 40°54'22.9"  | 44°25'33.3"  | 1839                |
| Arm 27   | Lori Province, tributary of the Dzoraget River, above Pushkin village | 40°58'04.8"  | 44°24'49.7"  | 1485                |
| Arm 28   | Tavush Province, tributary of the Gosh River, spring area at parking place and cafeteria | 40°44'15.9"  | 45°01'01.2"  | 1039                |

**Table 2.** List of sampling sites in Azerbaijan.

| Site no. | Site name (province, short description of locality) | Latitude (N) | Longitude (E) | Altitude (m) a.s.l. |
|----------|----------------------------------------------------|--------------|---------------|---------------------|
| Aze 1    | Khizi district, S of Sitalçay, wetland/pasture near Sumgayit bypass highway | 40°40'38.4"  | 49°29'08.9"  | 169                 |
| Aze 2    | Quba district, Xinalığ village, mountain stream | 41°11'00.3"  | 48°07'42.9"  | 2170                |
| Aze 3    | Lankaran district, SW of Lankaran, stream with woody vegetation, tributary of Lankaran River | 38°42'59.2"  | 48°44'17.8"  | 75                  |
| Aze 4    | Qabala district, S of Durca, light trap near stream, tributary of Qaraschay River | 41°02'11.2"  | 47°53'13.6"  | 1236                |
light trapping by H. A list of 4 sampling sites, with coordinates and altitudes, is given in Table 2. The collected material was preserved in 96% ethanol in the field. Captured moth flies were mounted in Canada balsam on 7 slides in laboratory.

All material, determined by the first author, is deposited in the National Museum, Natural History Museum, Department of Entomology, Prague, Czech Republic. Slides are numbered by inventory slide number of the family Psychodidae, and catalogue number (cat. no.) of the slide to be included in the NMPC Diptera collection (Tkoč et al. 2014). Nomenclature is according toPerfil’ev (1966), Lewis (1982), and Artemiev and Neronov (1984) for Phlebotominae; for Psychodinae the nomenclature is modified from Vaillant (1972) and Wagner (1990, 2013) using the classifications of e.g. Ježek and van Harten 2005, Oboňa and Ježek (2014), and Kroča and Ježek (2015). The following abbreviations are used in the paper: H = L. Hrivniak leg., J = J. Ježek det., Ma = P. Manko leg., O = J. Oboňa leg., NMPC = collections of the National Museum Prague, HC = hand collecting, SW = sweep netting, LT = light traps.

Results

Psychodidae
Phlebotominae
Phlebotomus Rondani, 1840 (sensu Sabrosky, 1999)
Subgenus Phlebotomus s. str.

1. Phlebotomus (Phlebotomus) papatasi (Scopoli, 1786)

Selected published records. Perfil’ev (1966: 252–254); Lewis (1982: 138–140); Artemiev and Neronov (1984: 39, 40); Wagner (1990: 13); Wagner et al. (2002: 323); Melaun et al. (2014: 2299).

Distribution. Afghanistan, Albania, Algeria, Armenia, Azerbaijan, Balears, Bosnia and Herzegovina, Bulgaria, Crete, Crimea, Croatia, Cyprus, Egypt, Ethiopia, France, Georgia, Greece, Hungary, India, Iran, Iraq, Israel, Italy, Jordan, Kazakhstan (southern), Kuwait, Libya, Macedonia, Malta, Moldova, Montenegro, Morocco, Oman, Pakistan, Portugal, Romania, Sardinia, Saudi Arabia, Serbia, Slovenia, Spain, Sudan, Syria, Tunisia, Turkey, Ukraine (southern), Yemen.

Subgenus Paraphlebotomus Theodor, 1948

2. Phlebotomus (Paraphlebotomus) alexandri Sinton, 1928

Selected published records. Perfil’ev (1966: 264–267); Lewis (1982: 143); Artemiev and Neronov (1984: 45); Wagner (1990: 14); Melaun et al. (2014: 2298).
Distribution. Afghanistan, Albania, Algeria, Armenia, Azerbaijan, Bulgaria, China (western), Crimea, Cyprus, Djibouti, Ethiopia, Georgia, Greece, India, Iran, Iraq, Israel, Kazakhstan (southern), Moldova, Mongolia, Morocco, Pakistan, Romania, Saudi Arabia, Spain, Sudan, Tunisia, Turkey, Ukraine, United Arab Emirates, Yemen; northern Sahara, Caucasus (southern), Near and Middle East, Central and Eastern Asia; Afrotropical and Oriental regions.

3. *Phlebotomus* (*Paraphlebotomus*) *cucasicus* Marzinovsky, 1917

Selected published records.Perfil’ev (1966: 257–261, as *grimmi* Porchinskyi, 1876); Lewis (1982: 144–145, as *caucasicus*); Artemiev and Neronov (1984: 49, as *caucasicus*); Wagner (1990: 14, as *caucasicus*); Melaun et al. (2014: 2298, as *caucasicus*).

Distribution. Afghanistan, Armenia, Azerbaijan, Bulgaria, China (not verified), Georgia, Greece, Iran, Kazakhstan, Macedonia, Turkmenistan, Uzbekistan.

4. *Phlebotomus* (*Paraphlebotomus*) *jacusieli* Theodor, 1947

Selected published records. Perfil’ev (1966: 110, distribution only); Lewis (1982: 145); Artemiev and Neronov (1984: 50); Wagner (1990: 14); Melaun et al. (2014: 2298).

Distribution. Albania, Azerbaijan, Cyprus, Greece, Israel, Jordan, Iran, northern Palestine, Turkey.

5. *Phlebotomus* (*Paraphlebotomus*) *mongolensis* Sinton, 1928

Syn. *Phlebotomus imitabilis* Artemiev, 1974 (see Artemiev 1978: 18).

Selected published records. Perfil’ev (1966: 267–271); Lewis (1982: 146); Artemiev and Neronov (1984: 55–56); Wagner (1990: 14); Melaun et al. (2014: 2299).

Distribution. Afghanistan, Azerbaijan, China, Iran, Kazakhstan, Mongolia.

6. *Phlebotomus* (*Paraphlebotomus*) *sergenti* Parrot, 1917

Selected published records. Perfil’ev (1966: 274–278, only important diagnostic characters of subsp. *sergenti* in comparison with subsp. *similis* Perfil’ev, 1963); Lewis (1982: 147, recognized two mentioned subspecies); Artemiev and Neronov (1984: 57, recognized *sergenti* and *similis* as two bona species); Wagner (1990: 14, as species); Wagner et al. (2002: 323); Melaun et al. (2014: 2299, as species).

Distribution. Afghanistan, Albania, Algeria, Armenia, Azerbaijan, Baleares, Bosnia and Herzegovina, Bulgaria, Canary I., China, Croatia, Cyprus, Egypt, France (Corsica), Georgia, Greece, India, Iran, Iraq, Israel, Italy, Jordan, Kazakhstan, Lebanon, Libya, Madeira, Macedonia, Mali, Malta, Morocco, Portugal, Romania, Saudi Arabia, Serbia, Slovenia, Somali Republic, Spain, Syria, Tunisia, Turkey, Ukraine, Yemen. Afrotropical and Oriental regions.
7. *Phlebotomus (Paraphlebotomus) similis*Perfil’ev, 1963 (sensu Artemiev & Neronov, 1984)

*Phlebotomus (Paraphlebotomus) sergenti similis*Perfil’ev, 1963

**Selected published records.**Perfil’ev (1966: 276); Lewis (1982: 148, as *sergenti similis*); Artemiev and Neronov (1984: 58–59, as a species).

**Distribution.**Perfil’ev (1966): southern coast of Crimea and southern Ukraine, Russia, northern Caucasus. Lewis (1982): same, Azerbaijan, Uzbekistan. Artemiev and Neronov (1984): Crimea, southern Ukraine, ?northern Caucasus, Albania, Romania, and former Yugoslavia. Melaun et al. (2014: 2299): Albania, Armenia, Azerbaijan, Bosnia and Herzegovina, Bulgaria, Croatia, Georgia, Greece, Macedonia, Romania, Serbia, Slovenia, Ukraine.

**Subgenus Larroussius** Nitzulescu, 1931

8. *Phlebotomus (Larroussius) kandelakii* Shurenkova, 1929

**Selected published records.**Perfil’ev (1966: 286, as *kandelakii*); Lewis (1982: 154, ssp. *kandelakii* and *burneyi* Lewis, 1967 recognized); Artemiev and Neronov (1984: 87, *burney* as a species); Wagner (1990: 15 ); Melaun et al. (2014: 2298).

**Distribution.**Afghanistan, Armenia, Azerbaijan, Dagestan, Georgia, Iran, Iraq, Lebanon, Turkey, Turkmenistan, Uzbekistan.

9. *Phlebotomus (Larroussius) major syriacus* Adler & Theodor, 1931

**Selected published records.**Perfil’ev (1966: 278–286, four subspecies recognized: *major*, *neglectus* Tonnoir, 1921, *syriacus*Perfil’ev, 1966 and *krimensis*Perfil’ev, 1966); Lewis (1982: 156–157, added *wui* Yang & Xiong, 1965); Artemiev and Neronov (1984: 92–95, considered *neglectus* as a separate valid species, but taxonomic position of *syriacus* is unclear due to the missing differential diagnosis in the original description); Wagner (1990: 16, recognized all four subspecies); Melaun et al. (2014: 2298, recognized *syriacus* as a species).

**Distribution.**Armenia, Azerbaijan, Crimea, Georgia, Greece (Crete), Israel, Italy (Sicily), Jordan, Lebanon, Palestine, Serbia, Syria, Turkey, Ukraine.

10. *Phlebotomus (Larroussius) perfiliwei transcaucasicus*Perfiliiew, 1937

**Selected published records.**Perfil’ev (1966: 289–293, recognized three subspecies: *perfiliwei*, *transcaucasicus*, and *galilaeus* Theodor, 1958); Lewis (1982: 160–161, 3 subspecies); Artemiev and Neronov (1984: 88, map 30, three subspecies); Wagner (1990: 16–17, three subspecies).

**Distribution.**Azerbaijan, Iran, Iraq, Russia, Uzbekistan.
11. *Phlebotomus* (*Larroussius*) *perniciosus* Newstead, 1911

**Selected published records.**Perfil’ev (1966: 299–300, only comments on systematic position); Lewis (1982: 161–162); Artemiev and Neronov (1984: 99–100); Wagner (1990: 17); Wagner et al. (2002: 323); Melaun et al. (2014: 2298).

**Distribution.** Albania, Algeria, Andorra, Azerbaijan, Baleares, Bosnia and Herzegovina, Bulgaria, Canary I., Corsica, Croatia, Cyprus, France, Germany, Greece, Italy, Libya, Macedonia, Malta, Morocco, Portugal, Romania, Sardinia, Serbia, Sicily, Slovenia, Spain, Switzerland, Tunisia, Turkey.

12. *Phlebotomus* (*Larroussius*) *tobbi* Adler & Theodor in Adler, Theodor & Lourie, 1930

**Selected published records.**Perfil’ev (1966: 296–300); Lewis (1982: 162–163); Artemiev and Neronov (1984: p. 101–102); Wagner (1990: 17); Melaun et al. (2014: 2298).

**Distribution.** Albania, Armenia, Azerbaijan, Bosnia and Herzegovina, Croatia, Cyprus, Georgia, Greece, Iran, Israel, Italy, Jordan, Lebanon, Palestine, Serbia, Sicily, Slovenia, Syria, Turkey.

**Subgenus Adlerius Nitzulescu, 1931**

13. *Phlebotomus* (*Adlerius*) *balcanicus* Theodor, 1958

**Selected published records.**Perfil’ev (1966: 316–317, as *P. chinensis balcanicus* Theodor, 1958); Lewis (1982: 165, as species); Artemiev and Neronov (1984: 114, as species); Wagner (1990, 2013: 17, as species); Melaun et al. (2014: 2298, as species).

**Distribution.** Albania, Azerbaijan, Bosnia and Herzegovina, Bulgaria, Caucasus, Crimea, Croatia, Georgia, Greece, Hungary, Iran (north-western), Macedonia, Romania, Serbia, Turkey, Ukraine.

14. *Phlebotomus* (*Adlerius*) *brevis* Theodor & Mesghali, 1964

Syn. *Phlebotomus chinensis ismailicus*Perfil’ev, 1966

**Published records.**Perfil’ev (1966: 314, as *P. chinensis ismailicus*Perfil’ev, 1966); Lewis (1982: 165); Artemiev and Neronov (1984: 115); Wagner (1990, 2013: 17); Melaun et al. (2014: 2298).

**Comments on distribution.** Artemiev and Neronov (1984): only Iran, southern Caucasus, Turkey. Wagner (1990, 2013) listed records from Moldova. Melaun et al. (2014) listed the species from Azerbaijan, Georgia, Greece and Malta.
15. *Phlebotomus (Adlerius) halepensis* Theodor, 1958

**Selected published records.**Perfil’ev (1966: 305–320, recognized 7 subspecies of *Phlebotomus chinensis* Newstead, 1916: *chinensis*, *simici* Nitzulescu, 1931, *longiductus* Parrot, 1928, *tauriae*Perfil’ev, 1966, *ismailicus*Perfil’ev, 1966, *balcanicus* and *halepensis*). Lewis (1982: 164–168, recognized five subspecies as valid species and supported synony mies proposed by Artemiev (1978, 1980): *tauriae* = *longiductus*, *ismailicus* = *brevis* Theodor & Mesghali, 1964); Artemiev and Neronov (1984: 107–125, discussed taxonomic problems); Wagner (1990: 18, as species); Melaun et al. (2014: 2298, as species).

**Distribution.** Armenia, Azerbaijan, Georgia, Iran, Israel, Kazakhstan, Kirghistan, Russia, Syria, Tajikistan, Turkey, Turkmenistan, Uzbekistan.

16. *Phlebotomus (Adlerius) simici* Nitzulescu, 1931

**Selected published records.**Perfil’ev (1966: 307, as subspecies *chinensis simici*, see *P. halepensis*); Lewis (1982: 168 as species); Artemiev and Neronov (1984: 123, as species); Wagner (1990: 18, as species).

**Distribution.** Armenia, Azerbaijan, Crete, Georgia, Greece, Jordan, Iran, Israel, Kazakhstan, Palestine, Romania, Russia, Syria, Turkey, former Yugoslavia.

*Sergentomyia* França & Parrot, 1920

Subgenus *Sergentomyia* s. str.

17. *Sergentomyia (Sergentomyia) dentata* Sinton, 1933

**Selected published records.**Perfil’ev (1966: 337); Lewis (1967: 25); Wagner (1990: 23).

**Distribution.** Azerbaijan, Greece, Iran, Iraq, Kazakhstan, Pakistan, Turkey, Turkmenistan, Uzbekistan.

Subgenus *Neophlebotomus* França & Parrot, 1920

18. *Sergentomyia (Neophlebotomus) pawlowskyi* (Perfiliev, 1933)

**Selected published records.**Perfil’ev (1966: 361–365, originally described the species as a *Phlebotomus*, Lewis (1967) later included it in *Sergentomyia (Rondanomyia)* Theodor, 1958; this subgenus was synonymized with *Neophlebotomus* (Lewis 1978: 269)); Wagner (1990: 22).

**Distribution.** Afghanistan, Armenia, Azerbaijan, Georgia, Iran, Iraq, Tajikistan, Turkey, Turkmenistan, Uzbekistan.
Subgenus *Parrotomyia* Theodor, 1958

19. *Sergentomyia (Parrotomyia) palestinensis* (Adler & Theodor, 1927)

**Selected published records.** Adler & Theodor (1927) originally described this species in *Phlebotomus*; Lewis (1967) later included it in the genus *Sergentomyia*, which was recognized as well byPerfil’ev (1966: 352–355);Perfil’ev (1968: 318, 326, in subgenus *Parrotomyia*); Lewis (1978: 264, in subgenus *Parrotomyia*); Wagner (1990: 25, subgenus *Parrotomyia*).

**Distribution.** Afghanistan, Armenia, Azerbaijan, Georgia, Iran, Iraq, Israel, Jordan, Palestine, Pakistan, Saudi Arabia. Oriental Region.

Psychodinae

Mormiini

*Mormiina* Ježek, 1984

20. *Yomormia petrovi* Ježek, 1985

**Material examined.** Armenia: Tavush Province, Bldan River, below Jukhtakvank monastery and the mineral water factory/plant, Arm 11, 28.viii.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22537.

**Comments.** This species was known only from the original description from Sandanski, Bulgaria (Ježek 1985). Krek (1999) listed this species as *Limomormia (Limomormia) petrovi* (Ježek 1985: 122–123). New for Armenia.

Paramormiini

Paramormiina

*Clogmia* Enderlein, 1937

21. *Cloginia albipunctata* (Williston, 1893)

**Material examined.** Armenia: Yerevan, Tigran Mets Avenue, Arm 1, 30.viii.2015, 1 ♂, O leg., HC, NMPC slide 22575.

**Comments.** This is an expansive, often synanthropic circumtropical and circum-subtropical species (Ježek and Goutner 1995; Werner 1997; Wagner et al. 2002; Boumans 2009; Boumans et al. 2009; Ježek et al. 2012; Oboňa and Ježek 2012; Kvitf et al. 2013; Wagner 2013; Humala and Polevoi 2015; Afzan and Belqat 2016; Bejarano and Estrada 2016; Oboňa et al. 2016a; Afzan and Belqat 2016; Cazorla-Perfetti and Moreno 2017). New for Armenia.
Parajungiella Vaillant, 1972

21. Parajungiella abchazica Ježek, 1985

Material examined. Armenia: Tavush Province, Bldan River, above Dilijan City, Arm 10, 28.viii.2015, 1♂, O Ma H leg. SW, NMPC slide 22528; Bldan River, below Jukhtakvank monastery and the mineral water factory/plant, Arm 11, 28.viii.2015, 1♀, O Ma H leg. SW, NMPC slide 22538.

Comments. This species was known by its original description from Saken-narzan, Abkhazia (Ježek 1985: 52–55). New for Armenia.

22. Parajungiella monikae (Wagner & Joost, 1986), comb. n.

Comments. This species from Armenia was originally described by Wagner and Joost (1986: 112) as Jungiella monikae. Its generic placement was changed to Parajungiella Vaillant, 1972 (: 83, originally as subgenus of Jungiella Vaillant, 1972) by Ježek (1984: 166). This arrangement was subsequently followed by Krek (1999: 5), Kvifte et al. (2011), Salmela et al. (2014), and Omelková and Ježek (2017).

Paramormia Enderlein, 1935
Subgenus Duckhousiella Vaillant, 1972

23. Paramormia (Duckhousiella) ustulata (Walker, 1856)

Material examined. Armenia: Lori Province, tributary of Dzoraget River, above Pushkin village, Arm 27, 3.ix.2015, 1♂, O Ma H leg. SW, NMPC slide 22541; Ararat Province, above the confluence of Azat and Gekhard rivers, Arm 17, 31.viii.2015, 1♂, O Ma H leg. SW, NMPC slide 22582; Lori Province, tributary of Pambak River, at the H24 road switch-backs, Arm 22, 1.ix.2015, 1♀, O Ma H leg. SW, NMPC slide 22589; Kotayk Province, Hrazdan River, below Hrazdan Reservoir, Arm 6, 27.viii.2015, 1♂, O Ma H leg. SW, NMPC slide 22597.

Comments. This is a widespread species or complex of species occurring in the Holarctic region. Ježek and Yağcı (2005) listed occurrences from the following countries: Afghanistan, Algeria, the Azores, Belgium, Bosnia-Herzegovina, Bulgaria, the Canary Islands, China, Corsica, Czech Republic, Denmark, France, Germany, Great Britain, Greece, Hungary, Iran, Ireland, Israel, Italy, Macedonia, Madeira, Mongolia, Morocco, the Netherlands, Poland, Romania, Sardinia, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Tunisia, Turkey and the USA. It has also been recorded from Finland (Salmela et al. 2014) and Mallorca (Kvifte et al. 2016). New for Armenia.
Subgenus *Paramormia* s. str.

24. *Paramormia (Paramormia) fratercula* (Eaton, 1893)

**Comments.** Eaton (1893: 128) described this species as *Pericoma fratercula* from Great Britain. Ježek (1984: 162, 163) considered it to be a *Paramormia (Paramormia)*, within the tribe *Paramormiini*, and Wagner (1990: 49) placed it in *Parmormia fratercula* in tribe *Telmatoscopini*.

**Distribution.** Denmark, Germany, Great Britain, Hungary, the Netherlands, Sweden (Wagner 1990, 2013). As first record from Armenia by Wagner and Joost (1986: 111).

25. *Paramormia (Paramormia) polyascoidea* (Krek, 1971)

**Material examined.** Armenia: Shirak Province, tributary of Akhurian River, at Toros-gyugh village, Arm 25, 3.ix.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22600.

**Comments.** This is a common European and west Siberian species known from Austria, Bosnia and Herzegovina, Czech Republic, Estonia, Finland, Germany, Poland, Abkazia, and Russia (Novosibirsk region) (Salmela and Piirainen 2005; Ježek and Omelkova 2012; Salmela et al. 2014). New for Armenia.

*Peripsychoda* Enderlein, 1935

26. *Peripsychoda auriculata* (Haliday in Curtis, 1839)

**Material examined.** Armenia: Tavush Province, Bldan River, below Jukhtakvank monastery and mineral water factory/plant, Arm 11, 28.viii.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22536; Tavush Province, Bldan River, above Dilijan City, Arm 10, 28.viii.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22527.

**Comments.** This is a large, black, conspicuous European and Transcaucasian species that is very common in lowlands to hilly regions. For detailed distributional data, see Wagner (1990, 2013) and Ježek (2004). New for Armenia.

*Psychodini*

*Logima* Eaton, 1904

27. *Logima albipennis* (Zetterstedt, 1850)

**Material examined.** Armenia: Ararat Province, Gekhard River, at Gerghard monastery (parking place), Arm 14, 30.viii.2015, 1 ♀, O Ma H leg. SW, NMPC slide 22574.

**Azerbaijan:** Qabala district, S of Durca, light trap near stream, tributary of Qaraschay River, Aze 4, 30.v.2017, 1 ♀, H leg. LT, NMPC slide 24175.
Comments. This is a cosmopolitan species, very common from lowlands to mountains.

Distribution. In Europe, it is known from Austria, Azores, Belgium, Bosnia and Herzegovina, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Luxembourg, Madeira, the Netherlands, Norway, Poland, Portugal, Romania, Russia, Sardinia, Serbia, Slovakia, Slovenia, and Sweden. In Asia from Afghanistan, China, India, Japan, North Korea, Syria and Turkey. In Africa, from Algeria, the Canary Islands, Gambia, South Africa, Tunisia; also from Australia, New Zealand, South America, USA; Campbell Island, Juan Fernandez Island, Kerguelen Island, Macquarie Island (Ježek and Yağci 2005; Kvifte 2012; Afzan and Belqat 2016). New for Armenia and Azerbaijan.

28. Logima satchelli (Quate, 1955)

Material examined. Azerbaijan: Qabala district, S of Durca, light trap near stream, tributary of Qaraschay River, Aze 4, 30.v.2017, 1 ♀, H leg. LT, NMPC slide 24174.

Distribution. This is a common Holarctic species. In Europe, known from e.g. Austria, Czech Republic, Ireland, Italy, Norway, Russia, Slovakia, Slovenia, Sweden, the Netherlands, Ukraine and the former Yugoslavia; Canada, USA (Ježek and Goutner 1995; Svensson 2009; Kvifte et al. 2011; Ježek et al. 2017). New for Azerbaijan.

Psychoda Latreille, 1796

29. Psychoda uniformata Haseman, 1907

Material examined. Armenia: Kotayk Province, tributary of Marmarik River, above Meghradzor, behind railway, Arm 7, 27.vii.2015, 1 ♀, O Ma H leg. SW, NMPC slide 22601; Lori Province, tributary of Dzoraget River, above Pushkin village, Arm 27, 3.ix.2015, 1 ♀, O Ma H leg. SW, NMPC slide 22542.

Comments. This is a Holarctic species, recorded from Europe (Austria, Czech Republic, Italy, Slovakia, Slovenia, Greece), Turkey, Iran, Israel, Mongolia, Morocco and the USA (Ježek and Omelková 2012; Oboňa and Ježek 2014; Afzan and Belqat 2016). New for Armenia.

Psychodocha Ježek, 1984

30. Psychodocha cinerea (Banks, 1894)

Material examined. Armenia: Ararat Province, Gekhard River, at Gerghard monastery (parking place), Arm 14, 30.viii.2015, 1 ♀, O Ma H leg. SW, NMPC slide 22573;
Lori Province, tributary of Dzoraget River, above Pushkin village, Arm 27, 3.ix.2015, 1 ♀, O Ma H leg. SW, NMPC slide 22543.

**Distribution.** This is a very common cosmopolitan species, in Europe, it is known from Austria, Azores, Belgium, Bosnia and Herzegovina, Bulgaria, Canary Islands, Cyprus, Czech Republic, Denmark, Finland, France, Finland, Germany, Great Britain, Greece, Hungary, Ireland, Italy (including Sardinia), Madeira, the Netherlands, Norway, Poland, Romania, Russia, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and Ukraine. In Asia, from Abkhazia, Afghanistan, Iran, and Israel. In Africa, from Algeria, Morocco, South Africa, and Tunisia. In the Americas, from Argentina; Brazil, Canada, Chile, Juan Fernandéz Island, Puerto Rico, USA. Also known from Australia and New Zealand (Krek 1985; Ježek and Goutner 1995; Ježek and Yağci 2005; Kvifte et al. 2011; Kvifte 2012; Wagner 1990, 2013; Salmela et al. 2014; Afzan and Belqat 2016; Ježek et al. 2017). New for Armenia.

*Tinearia Schellenberg, 1803*

31. *Tinearia alternata* (Say, 1824)

**Material examined.** Armenia: Lori Province, tributary of Dzoraget River, above Pushkin village, Arm 27, 3.ix.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22540; Lori Province, tributary of Aghstev River, above M8 road at Lermontov village, Arm 20, 31.viii.2015, 1 ♀, O Ma H leg. SW, NMPC slide 22559; Ararat Province, above the confluence of Azat and Gekhard rivers, Arm 17, 31.viii.2015, 1 ♀, O Ma H leg. SW, NMPC slide 22581; Kotayk Province, Marmarik district, Marmarik near road H28, Arm 3, 26.viii.2015, 1 ♀, O Ma H leg. LT, NMPC slide 22583; Ararat Province, Azat River, at Lanjazat village, Arm 19, 31.viii.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22595; Kotayk Province, Marmarik district, Marmarik Secondary School, Arm 2, 27.viii.2015, 1 ♂, O Ma H leg. BH, NMPC slide 22608. Azerbaijan: Khizi district, S of Sitalçay, wetland/pasture near Sumgayit bypass highway, Aze 1, 26.v.2017, 1 ♀, H leg. SW, NMPC slide 24173.

**Distribution.** This is a cosmopolitan species that is generally very common. In Europe, it is known from Austria, Balearic Islands, Belgium, Bulgaria, Crete, Croatia, Cyprus, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Madeira, Norway, Poland, Romania, Sardinia, Slovenia, Spain, Sweden, Switzerland, the Netherlands, and Ukraine. In Asia, from Afghanistan and UAE. In Africa from Algeria, Cape Verde Islands, Canary Islands, D.R. Congo, Egypt, Gambia, Ghana, Morocco, Nigeria, the Seychelles, Socotra Island, South Africa, Tanzania, and Tunisia. In Asia from Bangladesh, Borneo, Philippines, India, Jamaica, Japan, Malaysia, Mongolia, North Korea, Ryukyu Islands, Taiwan. From North and South America, including Panama, Puerto Rico, and Trinidad. Also from Australia, Hawaii, and from Micronesia, Macquarie Islands, New Zealand, and Samoa. (Ježek 1981; Ježek and van Harten 1996; Kvifte et al. 2011; Kvifte 2012; Ježek and Tkoč 2012; Wagner 2013; Afzan and Belqat 2016; Ježek et al. 2017). New for Armenia and Azerbaijan.
32. *Joostiella caucasica* Vaillant, 1983

**Comments.** The genus and species, originally described from near the Baksar River, Zlohl in the central Caucasus, were published by Vaillant (1983: 335). Wagner (1986: 87) later recorded this species from Turkey and Armenia, and additional records from Armenia were published by Wagner and Joost (1986: 111).

33. *Pericoma (Pachypericoma) blandula* Eaton, 1893

**Material examined.** Armenia: Tavush Province, tributary of Gosh River, spring area at parking place and cafeteria, Arm 28, 4.ix.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22546; Lori Province, tributary of the Pambak River, at the H24 road switch-backs, Arm 22, 1.i.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22588; Tavush Province, tributary of Aghstev River, above Teghut town, Arm 12, 29.viii.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22592; Lori Province, small brook, in valley at road H23 to Pushkin Pass, Arm 26, 3.ix.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22594; Lori Province, Zamanlu River, a tributary of Pambak River, at Vahagnadzor town, Arm 21, 1.ix.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22607. **Azerbaijan:** Lankaran district, SW of Lankaran, stream with woody vegetation, tributary of Lankaran River, Aze 3, 3.vi.2017, 2 ♂, H leg. SW, NMPC slides 24171 and 24172.

**Distribution.** This species is widespread in Europe, known from Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Denmark, European Turkey, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Macedonia, Montenegro, Norway, Poland, Romania, European Russia, Sardinia, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, the Netherlands and Ukraine. It is also recorded in Transcaucasia, Tunisia, and Morocco (Ježek 2004; Kvifte et al. 2011, 2013; Ježek et al. 2017). New for Armenia and Azerbaijan.

**Subgenus Pericoma s. str.**

34. *Pericoma bosniaca* Krek, 1966

**Published records.** Krek (1966: 249, 250; 1967a: 256, 257, 258; 1967b: 316; 1970: 98; 1972: 63; 1974: 60; 1979a: 1807, 1809; 1982: 154; 1985: 155, 179; 1999:
378, 379, as *Pericoma (Leptopericoma) bosniaca* Krek, 1967); Krek et al. (1976: 29); Mučibabič et al. (1984: 64); Vaillant (1978: 211, 219, pl. 66 fig 6, pl. 67 figs 7, 8); Wagner (1990: 38, as *bosnica* Krek, 1967); Wagner and Joost (1988: 30, the same).

**Material examined. Armenia:** Ararat Province, small tributary of Azat River, waterfall at road, Arm 16, 31.viii.2015, 2 ♂, O Ma H leg. SW, NMPC slides 22551 and 22552.

**Distribution.** Bosnia and Herzegovina, Bulgaria, Montenegro, Serbia, Macedonia. New for Armenia.

35. *Pericoma bunae* Krek, 1979

**Published records.** Krek (1979b: 127, 128, 129); Wagner (1990: 38, journal reference error); Krek (1999: 376, 377, as *Pericoma (Leptopericoma) bunae* Krek, 1979).

**Material examined. Azerbaijan:** Quba district, Xinaliq village, mountain stream, Aze 2, 27.v.2017, 1 ♂, H leg. SW, NMPC slide 24170.

**Distribution:** This species is known from Bosnia and Herzegovina, as well as Montenegro. New for Azerbaijan.

36. *Pericoma exquisita* Eaton, 1893

**Material examined. Armenia:** Shirak Province, tributary of Akhurian River, in valley below road from above Amasia town, Arm 24, 2.ix.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22530; Tavush Province, tributary of Gosh River, spring area at the parking place and cafeteria, Arm 28, 4.ix.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22547; Ararat Province, Gekhard River, below Garni Temple, Arm 15, 31.viii.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22578; Ararat Province, above the confluence of Azat and Gekhard rivers, Arm 17, 31.viii.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22587; Kotayk Province, Hrazdan River, above Solak town, Arm 5, 27.viii.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22599.

**Distribution.** This species is widespread in Europe, North Africa (Algeria, Morocco, and Tunisia), and Transcaucasia (Armenia; Wagner 1981: 56). In Europe, it is known from Albania, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Czech Republic, Crete, Croatia, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Macedonia, Montenegro, Poland, Serbia, Slovakia, Slovenia, Spain and Ukraine (Ježek 2004, 2009; Kvifte et al. 2013; Wagner 2013; Oboňa and Ježek 2014; Afzan and Belqat 2016; Ježek et al. 2017).

37. *Pericoma platystyla* Wagner, 1986

**Material examined. Armenia:** Ararat Province, small tributary of Azat River, waterfall at road, Arm 16, 31.viii.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22553.

**Comments.** Wagner (1986: 84) described this species from Turkey and Greece. New for Armenia.
**Pneumia Enderlein, 1935**

38. *Pneumia canescens* (Meigen, 1804)

**Material examined.** Armenia: Shirak Province, tributary of Akhurian River, in valley below road from above Amasia town, Arm 24, 2.ix.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22534; Tavush Province, tributary of Gosh River, spring area at parking place and cafeteria, Arm 28, 4.ix.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22534.

**Comments.** This is a common European and western Siberian species. In Europe it is known Austria, Belgium, Great Britain, Czech Republic, Denmark, European Turkey, France, Germany, Greece, Hungary, Slovakia, Sweden, the Netherlands and the former Yugoslavia. In Asia, it is known from Turkey, Kyrgyzstan, Afghanistan and China (Ježek 2006; Omelková and Ježek 2012; Ježek et al. 2013). New for Armenia.

39. *Pneumia joosti* (Wagner, 1981)

**Material examined.** Armenia: Kotayk Province, tributary of Marmarik River, above recreation centre, Arm 8, 27.viii.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22606; Kotayk Province, Hrazdan River, above Solak town, Arm 5, 27.viii.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22598; Lori Province, small brook, in valley at road H23 to Pushkin Pass, Arm 26, 3.ix.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22593; Lori Province, small steppe brook, tributary of Dzoraget River, Arm 23, 2.ix.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22591; Kotayk Province, Marmarik River, below Hankavan, Arm 4, 26.viii.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22586; Lori Province, tributary of Aghstev River, above M8 road at Lermontov village, Arm 20, 31.viii.2015, 6 ♂, O Ma H leg. SW, NMPC slides 22561–22566; Shirak Province, tributary of Akhurian River, in valley below road from above Amasia town, Arm 24, 2.ix.2015, 3 ♂, O Ma H leg. SW, NMPC slides 22531–22533.

**Comments.** Wagner (1981) described this species from Armenia as *Satchelliella joosti*. Distribution. This species is known only from Armenia and Transcaucasus (Wagner 1981).

40. *Pneumia pilularia* (Tonnoir, 1940)

**Material examined.** Armenia: Kotayk Province, tributary of the Marmarik River, above recreation centre, Arm 8, 27.viii.2015, 3 ♂, O Ma H leg. SW, NMPC slides 22549, 22605 and 22579; Ararat Province, small tributary of Azat River, waterfall at road, Arm 16, 31.viii.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22550; Lori Province, tributary of Aghstev River, above M8 road at Lermontov village, Arm 20, 31.viii.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22572; Ararat Province, above the confluence of Azat and Gekhard rivers, Arm 17, 31.viii.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22580; Ararat Province, small...
tributary of Gekhard River, crossroad at factory, Arm 18, 31.viii.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22603; Gegharkunik Province, Dzknaget River, at Sevan Lake and M14 road, Arm 13, 29.viii.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22604.

Comments. This species is distributed throughout almost all of Europe, including Spain, the British Isles and Scandinavia. It is also known from Algeria, Morocco, the Central Caucasus (Terskol, Russia) and Tajikistan, but it is relatively sporadic there (Wagner 1990; Vaillant and Joost 1983; Ježek 2004; Ježek et al. 2014). New for Armenia.

41. Pneumia nubila (Meigen, 1818)

Material examined. Armenia: Tavush Province, Bldan River, above Dilijan City, Arm 10, 28.viii.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22526; Shirak Province, tributary of Akhurian River, in valley below road from above Amasia town, Arm 24, 2.ix.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22529; Tavush Province, Bldan River, below Jukhtakvank monastery and mineral water factory/plant, Arm 11, 28.viii.2005, 1 ♂, O Ma H leg. SW, NMPC slide 22535; Lori Province, tributary of Dzoraget River, above Pushkin village, Arm 27, 3.ix.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22539; Tavush Province, tributary of Gosh River, spring area at parking place and cafeteria, Arm 28, 4.ix.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22544; Kotayk Province, tributary of Gosh River, spring area at parking place and cafeteria, Arm 28, 4.ix.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22548; Lori Province, tributary of Dzoraget River, above Pushkin village, Arm 27, 3.ix.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22554; Ararat Province, Gekhard River, at Gerghard monastery (parking place), Arm 14, 30.viii.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22567; Ararat Province, Gekhard River, at Gerghard monastery (parking place), Arm 14, 30.viii.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22571; Lori Province, small steppe brook, tributary of Dzoraget River, Arm 23, 2.ix.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22590; Kotayk Province, Hrazdan River, below Hrazdan Reservoir, Arm 6, 27.viii.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22596.

Distribution. This is a very common species, which is recorded from throughout Europe and the Canary Islands. In Europe, it is known from Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Denmark, Finland, France, Georgia, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Luxembourg, Macedonia, Montenegro, Poland, Romania, Sardinia, Serbia, Slovakia, Slovenia, Spain, Switzerland, the Netherlands and Ukraine (Wagner 1981; Ježek and Goutner 1995; Krek 1999; Ježek 2002; Kvifte et al. 2013; Ježek et al. 2016). New for Armenia.

Saraiella Vaillant, 1973

42. Saraiella ressli ressli Wagner, 1981

Material examined. Armenia: Ararat Province, small tributary of Azat River, waterfall at road, Arm 16, 31.viii.2015, 5 ♂, O Ma H leg. SW, NMPC slides 22554–22558; Lori Province, tributary of Aghstev River, above M8 road at Lermontov village, Arm
20, 31.viii.2015, 2 ♂, O Ma H leg. SW, NMPC slides 22569 and 22570; Tavush Province, Lake Parz Lich and its tributary, lake Parz Lich, Arm 9, 28.8.2015, 1 ♂, O Ma H leg. SW, NMPC slides 22576 and 22577; Ararat Province, confluence of Azat and Gekhard rivers, Arm 17, 31.viii.2015, 2 ♂, O Ma H leg. SW, NMPC slides 22584 and 22585; Ararat Province, small tributary of Gekhard River, crossroad at factory, Arm 18, 31.viii.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22602. 

**Azerbaijan:** Quba district, Xinaliq village, mountain stream, Aze 2, 27.v.2017: 1 ♂, H leg. SW, NMPC slide 24169.

**Comments.** This species was described by Wagner (1981: 48) from northern Iran, from material collected at Veyshahr near Nowshahr on the Caspian Sea. Wagner and Joost (1983: 100) published central Caucasus record from Terskol, Russia. Ježek (1990: 27–30) published a record of a subspecies, *Saraiella ressli montana*, from Kerman province in south-eastern Iran. New for Armenia and Azerbaijan.

**Thornburghiella Vaillant, 1973**

43. **Thornburghiella veve** Oboňa & Ježek, 2017

**Published record. Armenia:** Oboňa et al. 2017a (Lori Province near Dzoraget village, tributary of Pambak River), 3 ♂, NMPC type material catalogue no. 34708-34710, inventory no. 22620-22622.

**Ulomyia Walker, 1856**

44. **Ulomyia cognata** (Eaton, 1893)

**Material examined. Armenia:** Lori Province, tributary of Aghstev River, above M8 road at Lermontov village, Arm 20, 31.viii.2015, 1 ♂, O Ma H leg. SW, NMPC slide 22568.

**Distribution.** This is a common European species known from Austria, Czech Republic, Finland, France, Germany, Great Britain, Italy, Lithuania, Poland, Slovakia, Slovenia and Ukraine (Ježek and Omelková 2012; Salmela et al. 2014; Ježek et al. 2017). It is known from the central Caucasus at Terskol, Russia (Vaillant and Joost 1983: 100). New for Armenia.

**Discussion**

According to Oboňa et al. (2016b, 2017b) and Hrivniak et al. (2018), as compared to many European countries, Transcaucasia (Georgia, Armenia, Azerbaijan) is insufficiently investigated for flies of the families Anisopodidae, Bibionidae, Dixidae, Drosophilidae, Limoniidae, Pediciidae, Ptychopteridae, and Scatopsidae. Only 17 species
of Psychodidae are known for Armenia and 18 species are known from Azerbaijan (Perfil’ev 1966; Lewis 1982; Artemiev and Neronov 1984; Vaillant 1972; Wagner 1981, 1990, 2013; Wagner and Joost 1986; Wagner et al. 2002; Melaun et al. 2014; Oboňa et al. 2017a). In the present paper, we include 35 recent species (18 of them newly recorded) from Armenia. Included are 11 species of Phlebotominae and 24 species of Psychodinae. Similarly, our checklist of moth flies from Azerbaijan includes 24 species, of which 6 are newly recorded. The species recorded include 18 species of Phlebotominae and 6 of Psychodinae. Our results certainly represent only a small part of the Armenian and Azerbaijan psychodid fauna. Finding common and widespread species such as *Paramormia (Duckhousiella) ustulata*, *Psychodocha cinerea*, *Tinearia alternata*, *Pericoma (Pachypericoma) blandula*, *Pneumia canescens*, *Pneumia nubila*, or invasive species such as *Clogmia albipunctata*, for the first time from these countries shows that the psychodid fauna is still poorly known.

Knowledge of species distribution is important for studying biogeography and making effective conservation actions. This checklist will provide a baseline for further studies and for initiation of concerted conservation actions in Armenia and Azerbaijan. No doubt that future collecting in Georgia and Azerbaijan, done with the support of the International Visegrad Fund (project No. 21810533), will yield additional faunistic novelties of interest, as shown by similar studies in this region of other dipteran families (e.g. Oboňa et al. 2016b, 2017b; Negrobov et al. 2017; Starý et al. 2017; Hrivniak et al. 2018).

**Acknowledgements**

We thank to Ľuboš Hrivniak (Faculty of Sciences, České Budějovice, Czech Republic) for assistance in the field. We especially thank the subject editor, Gunnar M. Kvifte (University of Bergen, Bergen, Norway), and an anonymous reviewer, who gave constructive comments for the improvement of the manuscript. We also thank Professor Eduard G. Yavruyan (Institute of Zoology, Yerevan, Republic of Armenia) for generous help and kindness. This study was partly supported by the project of the Ministry of Culture of the Czech Republic (DKRVO 2018/14, National Museum, 00023272), by the Agency of Ministry of Education, Science, Research and Sport of the Slovak Republic (Project: ITMS: 26110230119), by the International Visegrad Fund (project No. 21810533) and by the Grant Agency of University of Prešov in Prešov under the contract No. GaPU 28/2018.

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