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NEW RECORDS OF PSOCOPTERA FROM SOME REGIONS OF EUROPEAN RUSSIA

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Summary. The list of 16 species of the psocids families Caeciliusidae (3), Stenopsocidae (2), Lachesiliidae (1), Liposcelididae (1), Epipsocidae (1), Peripsocidae (2), Elipsocidae (1), Mesopsocidae (1), and Psocidae (4) collected in five regions of Russia is given. One new species is recorded for the fauna of the Chuvash Republic, the Penza Region and the Republic of Tatarstan, respectively. Three species are new for the Republic of Mordovia, and four species are listed for the Ulyanovsk Region for the first time.

Key words: psocids, fauna, new records, Europe.

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Резюме. Приведен список 16 видов сеноедов семейств Caeciliusidae (3), Stenopsocidae (2), Lachesiliidae (1), Liposcelididae (1), Epipsocidae (1), Peripsocidae (2), Elipsocidae (1), Mesopsocidae (1) и Psocidae (4), собранных в пяти регионах европейской части России. Для фауны Чувашской республики, Пензенской области и Республики Татарстан указано по одному новому виду. Впервые для Республики Мордовия указано три вида, а для Ульяновской области – 4 вида сеноедов.

INTRODUCTION

A small order of insects Psocoptera has more than 5730 species in the modern world fauna (Zhang, 2013). These are species that live more often in forest ecosystems and prefer litter, grassy and shrubby layers (Lienhard, 1998). In Russia 71 species of Psocoptera were known (Lienhard, 2016). However, the fauna of Psocoptera in many regions of Russia is poorly studied or completely unknown (Lienhard, 2006).

The material was collected in 2020-2022 on the territory of some regions of European part of Russia. The specimens were carried out using pitfall traps, yellow pan traps, window traps, on light. A total of 91 Psocoptera specimens were examined by D. Georgiev. The species identification was based on Lienhard (1998). Distribution of species is given according Lienhard (2016).

The following abbreviations are used: PSNR – Prisursky State Nature Reserve; MSNR – Mordovia State Nature Reserve, NPS – National Park «Smolny», distr. – district, spec. – specimen. The following abbreviations are used for collectors: AR – A.B. Ruchin; ME – M.N. Esin; LE – L.V. Egorov; SL – S.V. Lukyanov; MR – M.K. Ryzhov; GS – G.B. Semishin. New distributional records for regions are marked with an asterisk (*).

LIST OF THE SPECIES

Family Caeciliusidae

Caecilius fuscopterus (Latreille, 1799)

MATERIAL. **Russia:** Republic of Mordovia, Zubova Polyana distr., 12 km N of Potma, 54.190°N, 42.896°E, 3–15.VIII 2021, 9 spec., ME; Zubova Polyana distr., 3 km S of Molochnitsa, 54.211°N, 42.877°E, 3–15.VIII 2021, 3 spec., ME.

DISTRIBUTION. Known from Northern and Central Europe, Central and South-East Asia (Mongolia, Vietnam).

Valenzuela flavidus (Stephens, 1836)

MATERIAL. **Russia:** Republic of Mordovia, Zubova Polyana distr., Yavas, 54.406°N, 42.861°E, 17–19.VI 2021, 2 spec., ME; Zubova Polyana distr., Molochnitsa, 54.229°N, 42.879°E, 3–15.VIII 2021, 1 spec., ME; Zubova Polyana distr., 22 km NW of Yavas, 54.478°N, 42.640°E, 23–26.VII 2021, 1 spec., ME; Tengushevo distr., 3 km N of Klemeshchey, 54.606°N, 42.841°E, 9–13.VII 2021, 2 spec., ME; Tengushevo distr., Klemeshchey, 54.571°N, 42.867°E, 9–13.VII 2021, 3 spec., ME; Ichalki distr., NPS, sanatorium “Alatyr”, 54.738°N, 45.384°E, 24–25.VIII 2022, 1 spec., GS.

DISTRIBUTION. Known from many localities in Europe, Asia, North and Latin America and some ocean islands.

Valenzuela piceus (Kolbe, 1882)

MATERIAL. **Russia:** Republic of Mordovia, Zubova Polyana distr., Yavas, 54.406°N, 42.861°E, 17–19.VI 2021, 7 spec., ME; Zubova Polyana distr., 12 km N of Potma, 54.190°N, 42.896°E, 3–15.VIII 2021, 1 spec., ME; Tengushevo distr., 3 km N of Klemeshchey, 54.606°N, 42.841°E, 9–13.VII 2021, 2 spec., ME; Tengushevo distr., Klemeshchey, 54.571°N, 42.867°E, 9–13.VII 2021, 1 spec., ME.

DISTRIBUTION. Known from many localities all over Europe.

Family Stenopsocidae

Stenopsocus immaculatus (Stephens, 1836)

MATERIAL. **Russia:** Republic of Mordovia, Zubova Polyana distr., 12 km N of Potma, 54.190°N, 42.896°E, 3–15.VIII 2021, 2 spec., ME.

DISTRIBUTION. Known from many localities all over Europe and Central Asia (Mongolia).

Stenopsocus stigmaticus (Imhoff et Labram, 1842)

MATERIAL. **Russia:** *Republic of Mordovia, Zubova Polyana distr., Yavas, 54.406°N, 42.861°E, 17–19.VI 2021, 2 spec., ME; Zubova Polyana distr., 3 km S of Molochnitsa, 54.211°N, 42.877°E) 3–15.VIII 2021, 2 spec., ME.

DISTRIBUTION. Known from many localities all over Europe and Central Asia (Mongolia).

Family Lachesiliidae

***Lachesilla pedicularia* (Linnaeus 1758)**

MATERIAL. **Russia:** Republic of Mordovia, Tengushevo distr., Klemeshchey, 54.571°N, 42.867°E, 9–13.VII 2021, 1 spec., ME; Temnikov distr., MSNR, 54.720°N, 43.226°E, 12.IX 2020, 1 spec., AR.

DISTRIBUTION. Known from all over Europe, North Africa, Asia, North and South America, Australia, Hawaii and Micronesia.

Family Liposcelididae

***Liposcelis entomophila* (Enderlein, 1907)**

MATERIAL. **Russia:** *Republic of Mordovia, Tengushevo distr., 14 km W of Barashevo, 54.537°N, 42.735°E, 23–26.VII 2021, 1 spec., ME.

DISTRIBUTION. Cosmopolitan species.

Family Epipsocidae

***Bertkauia lucifuga* (Rambur, 1842)**

MATERIAL. **Russia:** *Republic of Mordovia, Zubova Polyana distr., 12 km N of Potma, 54.190°N, 42.896°E, 3–15.VIII 2021, 1 spec., ME; Zubova Polyana distr., Molochnitsa, 54.229°N, 42.879°E, 3–15.VIII 2021, 1 spec., ME.

DISTRIBUTION. Known from many localities in Europe, also Morocco, Turkey, Azores and Madeira.

Family Peripsocidae

***Peripsocus alboguttatus* (Dalman, 1823)**

MATERIAL. **Russia:** Republic of Mordovia, Tengushevo distr., 3 km N of Klemeshchey, 54.606°N, 42.841°E, 9–13.VII 2021, 2 spec., ME; Zubova Polyana distr., 12 km N of Potma, 54.190°N, 42.896°E, 3–15.VIII 2021, 1 spec., ME; Zubova Polyana distr., Molochnitsa, 54.229°N, 42.879°E, 3–15.VIII 2021, 1 spec., ME.

DISTRIBUTION. Known from many localities in Europe, North America, Central Asia (Mongolia) and Madeira.

***Peripsocus subfasciatus* (Rambur, 1842)**

MATERIAL. **Russia:** Republic of Mordovia, Tengushevo distr., 3 km N of Klemeshchey, 54.606°N, 42.841°E, 9–13.VII 2021, 9 spec., ME; Tengushevo distr., Klemeshchey, 54.571°N, 42.867°E, 9–13.VII 2021, 1 spec., ME; Zubova Polyana distr., Yavas, 54.406°N, 42.861°E, 17–19.VI 2021, 2 spec., ME; Zubova Polyana distr., 22 km NW of Yavas, 54.478°N, 42.640°E, 23–26.VII 2021, 3 spec., ME.

DISTRIBUTION. Known from many localities in Europe, also North and South America (USA, Canada, Mexico and Colombia) and Azores.

Family Elipsocidae

***Pseudopsocus fusciceps* (Reuter, 1893)**

MATERIAL. **Russia:** *Republic of Tatarstan, Apastovo distr., 2 km S of Malye Kokuzy, 56.300°N, E48.621°E, 4.IX 2020, 1 spec., AR; Zelenodolsk distr., Urnyak, 56.864°N, 48.770°E, 2–4.IX 2020, 1 spec., AR. *Ulyanovsk reg., Inza distr., 1.5 km SW of Agrash,

53.947°N, 46.210°E, 1–5.IX 2020, 1 spec., AR; Inza distr., Valgussy, 54.039°N, 46.206°E, 1–5.IX 2020, 2 spec., AR. Republic of Mordovia, Tengushevo distr., Klemeshchey, 54.571°N, 42.867°E, 9–13.VII 2021, 2 spec., ME.

DISTRIBUTION. Known from some European countries: Austria, Belgium, Czechoslovakia, Finland, Germany, Great Britain, Greece, Luxembourg, Netherlands, Norway, Poland, Switzerland and Russia.

Family Mesopsocidae

Mesopsocus unipunctatus (Müller, 1764)

MATERIAL. **Russia:** *Ulyanovsk reg., Inza dist., Trusleika, 53.950°N, 46.391°E, 10.VI–16.VII 2022, 1 spec., AR.

DISTRIBUTION. Known from all over Europe, North Africa, Asia and North America.

Family Psocidae

Metylophorus nebulosus (Stephens, 1836)

MATERIAL. **Russia:** Republic of Mordovia, Zubova Polyana distr., 12 km N of Potma, 54.190°N, 42.896°E, 3–15.VIII 2021, 3 spec., ME; Zubova Polyana distr., 3 km S of Molochnitsa, 54.211°N, 42.877°E, 3–15.VIII 2021, 1 spec., ME; Zubova Polyana distr., 22 km NW of Yavas, 54.478°N, 42.640°E, 23–26.VII 2021, 2 spec., ME; Tengushevo distr., Klemeshchey, 54.571°N, 42.867°E, 9–13.VII 2021, 1 spec., ME; Ardatov distr., 1 km S from Ardatov, 54.805°N, 46.247°E, 16.VII–16.VIII 2021, 3 spec., SL; Ardatov distr., 0.5 km SW Zharenki, 54.711°N, 46.235°E, 16.VII–16.VIII 2021, 3 spec., SL; Chamzinka distr., 2.3 km SW Kalinovka, 54.395°N, 45.881°E, 22.VII–26.VIII 2021, 3 spec., MR. *Chuvash Republic, Alatyrsky district, 2.78 km SSE Atrat, Alatyrsky cluster of the PSNR, quarter 63, 54.989°N, 46.750°E, 19.VIII–27.IX 2022, 1 spec., LE; 3 km S Atrat, Alatyrsky cluster of the PSNR, quarter 100, 54.966°N, 46.712°E, 27.VII 2022, 1 spec., LE.

DISTRIBUTION. Known from many localities all over Europe and Asia.

Neopsocopsis hirticornis (Reuter, 1893)

MATERIAL. **Russia:** *Penza reg., Bashmakovo distr., 2 km SE of Novoznamensky, 53.264°N, 42.945°E, 3.VI–7.VII 2022, 1 spec., AR. *Ulyanovsk reg., Inza distr., 1.5 km SW of Agrash, 53.947°N, 46.210°E, 1–5.IX 2020, 1 spec., AR.

DISTRIBUTION. Known from many localities all over Europe and Asia (Mongolia).

Oreopsocus montanus (Kolbe, 1884)

MATERIAL. **Russia:** Republic of Mordovia, Atyashevo distr., 2.5 km SW Alasheevka, 54.615°N, 46.180°E, 16.VII–16.VIII 2022, 2 spec., SL; Ardatov distr., 1 km S from Ardatov, 54.805°N, 46.247°E, 16.VII–16.VIII 2022, 1 spec., SL.

DISTRIBUTION. Known from many localities all over Europe.

Trichadenotecnum majus (Kolbe, 1880)

MATERIAL. **Russia:** *Ulyanovsk reg., Inza distr., 5 km NNE Inza, 53.898°N, 46.375°E, 1–5.IX 2020, 1 spec., AR.

DISTRIBUTION. Known from many localities all over Europe and North America.

DISCUSSION

A total of 16 species from the families Caeciliusidae, Stenopsocidae, Lachesiliidae, Liposcelididae, Epipsocidae, Peripsocidae, Elipsocidae, Mesopsocidae, and Psocidae (Psocoptera) collected in from five regions of European Russia are listed. Most of the listed species are widespread, but new records are indicated for many regions. One new species is recorded for the fauna of the Chuvash Republic, the Penza Region and the Republic of Tatarstan, respectively. Three species are new for the Republic of Mordovia, and four new species are recorded from the Ulyanovsk Region for the first time.

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REFERENCES

- Lienhard, C. 1998. Psocoptères euro-méditerranées. *Faune de France*, 83: 1–517.
Lienhard, C. 2016. *Country checklists of the Psocoptera species of the World, extracted from Lienhard & Smithers, 2002: "Psocoptera (Insecta) – World Catalogue and Bibliography"*. Psocid News, Sapporo, Japan.
Lienhard, C. 2006. Four interesting psocids (Psocodea: 'Psocoptera') from European parts of Russia and from the eastern Mediterranean. *Revue Suisse Zoologie*, 113(4): 807–815.
Zhang, Z.-Q. 2013. Phylum Arthropoda. Animal Biodiversity: An Outline of Higher-level Classification and Survey of Taxonomic Richness (Addenda 2013). *Zootaxa*, 3703(1): 1–82.