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New records of Dolichopodidae (Diptera) from the North-Western Caucasus and adjacent territories and a new synonym

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Abstract. During the recent years, several surveys were conducted by the Kuban State University, All-Russian Institute of Plant Protection, Institute of Cytology and Genetics SB RAS (Novosibirsk), and Zoological Museum of Moscow State University in the North-Western Caucasus and on the adjacent territories, mainly in the Russian Republic of Adygea and Krasnodar Krai. In all, 102 Dolichopodidae species were collected and identified, including *Dolichopus calinotus* Loew, 1871, *Lamprochromus kowarzi* Negrobov et Tshalaja, 1988, *Medetera parenti* Stackelberg, 1925, *Nematoproctus distendens* (Meigen, 1824), *Neurigona pallida* (Fallén, 1823), *Poecilobothrus annulitarsis* Kazerani, Pollet, Khaghaninia, 2017, *Sciapus albifrons* (Meigen, 1830), *Sybstroma discipes* (Germar, 1821), and *Thrypticus bellus* Loew, 1869 new for the Krasnodar Krai; *Dolichopus salictorum* Loew, 1871 and *Medetera petrophila* Kowarz, 1877 new for Adygea; and *Rhaphium antennatum* (Carlier, 1835) new for Rostov Oblast. *Argyra atriceps* Loew, 1857, *Dolichopus strigipes* Verrall, 1875, *Gymnopternus silvestris* (Pollet, 1991), *Medetera lamprostomoides* (?) Negrobov, 1972, *Nematoproctus praesectus* Loew, 1869, and *Rhaphium nasutum* (Fallén, 1823) are found in the Caucasus and Krasnodar Krai for the first time, while *Poecilobothrus basilius* (Loew, 1869) and *Medetera media* Parent, 1925 are the first reports for Russia. The former Mongolian endemic *Dolichopus brunneilineatus* Negrobov, 1976 was unexpectedly revealed in the Krasnodar Krai near Novorossiysk. *Campsicnemus armeniacus* Negrobov et al., 2017 was placed in synonymy with *Campsicnemus varipes* Loew, 1859. *Campsicnemus simplicissimus* sensu Parent (1938) was found to be different from *C. simplicissimus* (Strobl, 1906). Most of the collected species are widespread across southern band of the Palearctic Region.

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Keywords: long-legged flies, fauna, Adygea, Krasnodar Krai, Rostov Oblast, Crimea, Abkhazia, new records, new synonym

Новые находки Dolichopodidae (Diptera) с Северо-Западного Кавказа и сопредельных территорий и новый синоним

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Аннотация. В последние годы было организовано несколько экспедиций Кубанским государственным университетом, ВНИИ защиты растений, Институтом цитологии и генетики СО РАН и Зоологическим музеем МГУ на Северо-Западном Кавказе и сопредельных территориях, в основном в Республике Адыгея и Краснодарском крае. Всего идентифицированы 102 вида Dolichopodidae, в том числе восемь видов, новых для Краснодарского края, два — для Адыгеи, один — для Ростовской области. Шесть видов обнаружены в Краснодарском крае и на Кавказе в целом впервые, а *Poecilobothrus basilius* (Loew, 1869) и *Medetera media* Parent, 1925 впервые указаны для России. Монгольский эндемик *Dolichopus brunneilineatus* Negrobov, 1976 неожиданно пойман в Краснодарском крае около Новороссийска. *Campsicnemus armeniacus* Negrobov et al., 2017 сведен в синонимы к *Campsicnemus varipes* Loew, 1859. Большинство собранных видов широко распространены в южной полосе Палеарктики.

Ключевые слова: мухи-зеленушки, фауна, Адыгея, Краснодарский край, Ростовская область, Крым, Абхазия, новые указания, новый синоним

Introduction

The Dolichopodidae fauna of the Caucasus and East Mediterranean Basin as a whole was reviewed by Grichanov (Grichanov 2007) and included more than 500 species. Grichanov et al. (Grichanov et al. 2009) published the last list of Dolichopodidae species from Adygea containing 95 species. The North-Western Caucasus comprised more than 220 species of long-legged flies at that time, i.e., the largest recorded dolichopodid fauna in the Caucasian region. Long-legged flies collected from this part of the Caucasus were later extensively investigated by different researchers. Thus, new records were published from the Krasnodar Krai (Maslova et al. 2007; 2008; 2011; 2020; Negrobov et al. 2007; 2016; 2017a; Grichanov 2008; 2012a; 2012b; 2022; Negrobov, Kornev 2010; Negrobov, Grichanov 2010a; Grichanov, Negrobov 2014; Kustov et al. 2016; Grichanov, Nourti 2021; Selivanova et al. 2012), from the Rostov Region (Grichanov 2012a), from the Russian Republic of Adygea (Maslova et al. 2007; 2008; 2011; 2019; 2020; Negrobov, Nechai 2009;

Negrobov, Kornev 2010; Grichanov 2012b; 2013a; 2013c; Grichanov, Negrobov 2014; Grichanov et al. 2007; 2020; Negrobov, Grichanov 2010a; 2010b; Negrobov et al. 2007; 2020a; 2020b; Selivanova et al. 2012; 2019), and from Abkhazia (Grichanov 2013b; Grichanov et al. 2007; 2020).

Neurigona verrichterae Negrobov et Fursov, 1988, described from Krasnodar Krai, was synonymized with *Neurigona suturalis* (Fallén, 1823) (Grichanov 2010). Negrobov and Grichanov excluded European *Sciapus frater* Parent, 1927 and *S. spiniger* (Zetterstedt, 1859) from the Caucasus (Negrobov, Grichanov 2010a). Grichanov and Nourti excluded the Atlantic European *Teuchophorus bipilosus* Becker, 1908 from the Caucasus (Grichanov, Nourti 2021). Negrobov (Negrobov 2010) raised from synonymy *Medetera armeniacae* Negrobov, 1972, *M. meridionalis* Negrobov, 1967 and *M. petrophiloides* Parent, 1925, inhabiting the Caucasus.

This paper presents new records for 102 species arranged alphabetically by genus, resulting mainly from the recent Russian expeditions organized by the Kuban State

University (Krasnodar), All-Russian Institute of Plant Protection (Saint Petersburg), Institute of Cytology and Genetics SB RAS (Novosibirsk), and Zoological Museum of Moscow State University (Moscow). They were collected mainly in the Russian Republic of Adygea and Krasnodar Krai. Material of the newly-recorded species will be housed in those institutions. Information on world distribution for each species listed follows Grichanov (Grichanov 2024). Most specimens (except as noted) were dried and mounted on pins and placed in the museum drawers.

New Records

1. *Argyra argyria* (Meigen, 1824)

Material examined. 2♂, Krasnodar Krai, env. of Krasnodar, Krasnyi Kut forest park, 44°58'32" N, 39°01'12" E, 19 m, 22.05.2016, V. Gladun.

Distribution. Caucasus: Azerbaijan, Russia (Adygea, Krasnodar). West Palaearctic species.

2. *Argyra atriceps* Loew, 1857

Material examined. 1♂, Krasnodar Krai, Goryachy Klyuch distr., env. of Oktyabrsky vill., Mokryi Sepsil River, 29.05.2013, S. Kustov, V. Gladun.

Distribution. Europe. New for the Caucasus and Krasnodar Krai.

3. *Argyra diaphana* (Fabricius, 1775)

Material examined. 1♂, Krasnodar Krai, Apsheronsk distr., Kamyshanova Polyana biostation, 13–19.07.2008, V. Gladun; 1♂, Krasnodar Krai, Apsheronsk distr., env. of Azishskaya cave, 1500 m, 24.06.2013, S. Kustov; 1♂, Krasnodar Krai, Goryachy Klyuch distr., env. of Oktyabrsky vill., 18.05.2014, S. Kustov; 1♂, Krasnodar Krai, Sochi distr., Caucasian Nature Reserve, Psluh cordon, 1000 m, 06.08.2004, A. Duka; 1♀, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, Mezmai River, 44.20° N, 40.05° E, 14.07.2024, I. Grichanov.

Distribution. Caucasus: Azerbaijan, Georgia, Russia (Krasnodar). West Palaearctic species.

4. *Argyra leucocephala* (Meigen, 1824)

Material examined. 8♂, Krasnodar Krai, env. of Krasnodar, Krasnyi Kut forest park,

44°58'32" N, 39°01'12" E, 19 m, 22.05.2016, V. Gladun; Krasnodar Krai, Apsheronsk distr., env. of Gornyi vill., 44°32'24" N, 39°35'48" E, 21.05.2017, S. Kustov; 1♂, Sochi distr., Sochi Natural Park, Khosta distr., env. of Izmaylovka vill., 1st Zmeikovsky waterfall, 43.63° N, 39.81° E, 17.09.2023, M. Koblova (in ethanol).

Distribution. Caucasus: Azerbaijan, Russia (Adygea, Krasnodar). West Palaearctic species.

5. *Argyra skuffini* Negrobov, 1965

Material examined. 1♂, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, spring, 44.17° N, 40.00° E, 13.07.2024, I. Grichanov.

Distribution. Caucasus: Russia (Adygea, Krasnodar).

6. *Argyra submontana* Negrobov et Selivanova, 2006

Material examined. 3♂♀, Krasnodar Krai, Goryachy Klyuch distr., env. of Oktyabrsky vill., Mokryi Sepsil River, 29.05.2013, S. Kustov, V. Gladun.

Distribution. Caucasus: Russia (Adygea, Krasnodar).

7. *Campsicnemus curvipes* (Fallén, 1823)

Material examined. 1♀, Krasnodar Krai, Apsheronsk distr., Kamyshanova Polyana biostation, 13–19.07.2008, V. Gladun; 1♀, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, Malyi waterfall, 06.09.2014, S. Kustov; 1♀, Krasnodar Krai, Otradnaya distr., env. of Ilyich khutor, Kuva River, 44°04'12" N, 41°22'27" E, 720 m, 03.06.2018, S. Kustov; 3♂, 3♀, Krasnodar Krai, Sochi, Adler distr., Estosadok vill., spring and brook, 43.68° N, 40.27° E, 43.69° N, 40.25° E, 19.07, 21.07.2024, I. Grichanov; 1♀, Crimea, Simferopol distr., env. of Lozovoe vill., Salgir River, 10.11.1982, Gordienko.

Distribution. Caucasus: Abkhazia, Armenia, Azerbaijan, Russia (Adygea, Alania, Chechnya, Dagestan, Kabardino-Balkaria, Karachay-Cherkessia, Krasnodar, Stavropol). Europe, North Africa, Asia (Iran, Siberia, Turkey).

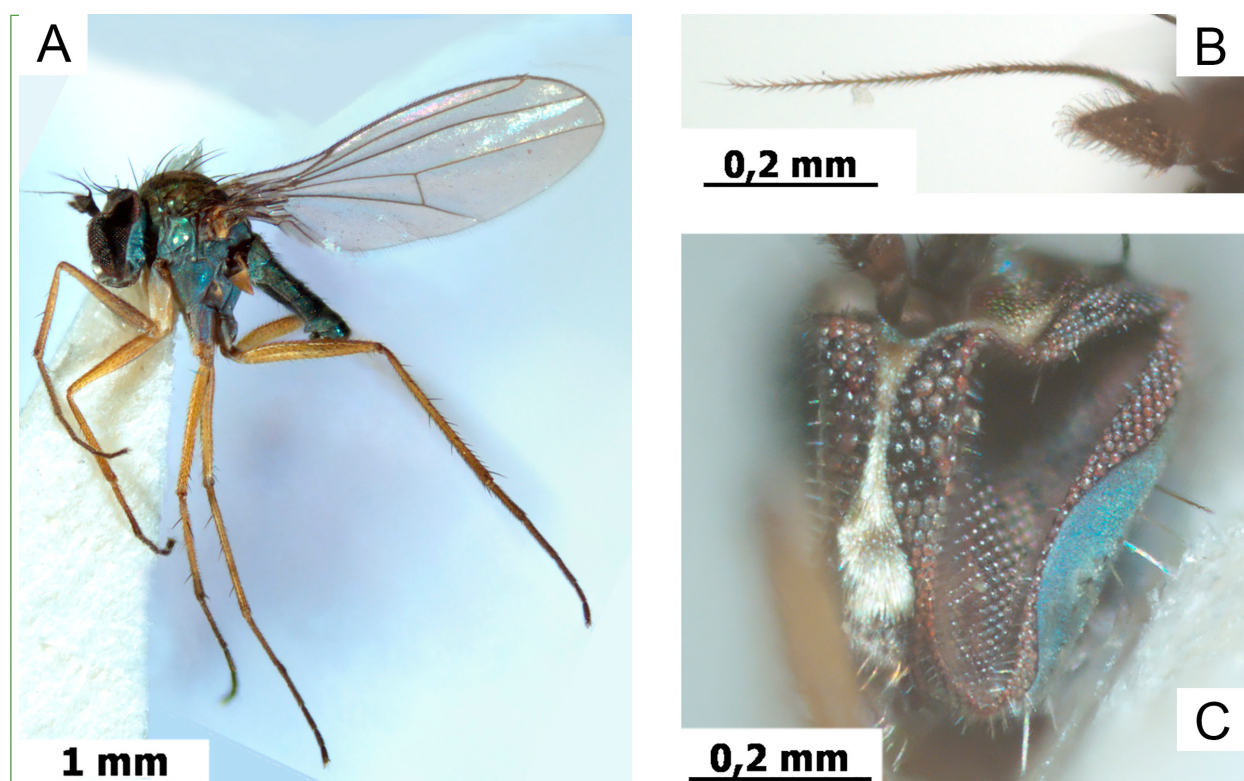


Fig. 1. *Campsicnemus simplicissimus* (Strobl), male habitus (A), antenna (B) and head (C)

Рис. 1. *Campsicnemus simplicissimus* (Strobl), самец: внешний вид (A), усик (B) и голова (C)

8. *Campsicnemus simplicissimus*
Strobl, 1906

Fig. 1

Material examined. 1♂, Krasnodar Krai, Krasnodar, Karasunsky garden square, shore of Lake Karasun, 10.10.2008, B. Volfov; 3♂, 1♀, Krasnodar Krai, Krasnodar, Sunny Island Park, at water, shore of Lake Staraya Kuban, 1:00 p.m. – 2:00 p.m., 13.06.2010, B. Volfov; 2♂, Krasnodar Krai, Novorossiysk distr., Dyurso vill., Dyurso River, reed and sedge at banks, 44.682° N, 37.563° E, 6 m, 21–22.07.2017, O. Kosterin (in ethanol); 1♂, Krasnodar Krai, Goryachy Klyuch distr., Fanagoriyskoye vill., pond, 44.52° N, 39.12° E, 08.07.2024, I. Grichanov.

Distribution. Type locality: Spain, Algeciras. Caucasus: Abkhazia, Russia (Karachay-Cherkessia, Krasnodar, Rostov). Bulgaria, France, Greece, Hungary, Iran, Italy, Israel, Morocco, Russia (Astrakhan), Spain, Switzerland, Tajikistan, Turkey.

Differential diagnosis and notes. *Campsicnemus simplicissimus* differs from males of other Palaearctic species of the genus by simple legs without remarkable

setation. It differs from other species with simple male legs in such characters as black antenna, absence of velvety black spots on mesonotum and parallel wing veins R_{4+5} and M_{1+2} . The species was originally described from southern Spain (Algeciras) without distinct diagnostic characters and illustrations (Strobl 1906). It was later described only once and was never figured. Parent (Parent 1938) described *C. simplicissimus* from a male collected from a locality near the French Alps (Lyonnais), giving no illustrations, and added such unusual characters as the ratio of cross-vein dm-m to distal part of M_4 (2/3), three pairs of dorsocentrals, two prothoracic setae and absence of acrostichals. This male was somewhat smaller than Strobl's male (1.5 vs. 2 mm) and may belong to a different species.

The senior author has re-examined males collected from Rostov Oblast, Krasnodar Krai (Russia), Abkhazia, Turkey (Side province; figured), Iran (West Azerbaijan and Sistan and Baluchistan provinces) and Tajikistan (in all, 32 males from 17 localities). They are slightly variable in body size and leg colour, but have no significant

differences in leg and body setation, wing veins and podomeres length ratios from a male on the photo provided by Dr. M. Nourti (Université Abdelmalek Essaâdi, Tétouan, Morocco). This male collected from the northernmost Moroccan region Rif and other material examined correspond with the description of *C. simplicissimus* by Strobl.

The following morphometric characters (in mm) were not included into original description of *C. simplicissimus* (based on a male from the Mediterranean province of Turkey). Body length 1.8 mm, antenna length 0.6 mm, wing length 2.4 mm, wing width 0.8 mm; clypeus as long as wide, nearly 1/3 length of face; antennal postpedicel 1.5 times as long as high; length of scape, pedicel, postpedicel, arista-like stylus, 0.08/0.05/0.12/0.4; thorax with 4 pairs of strong dorsocentral bristles; acrostichals small, uniserial anteriorly, irregularly biserial posteriorly; short sparse prothoracic hairs above and below; one strong prothoracic bristle above coxa; femur, tibia and tarsomere (from first to fifth) length (mm): fore leg: 0.68/0.58/0.36/0.19/0.15/0.11/0.11, mid leg: 0.78/0.87/0.38/0.21/0.17/0.11/0.10, hind leg: 0.87/1.02/0.27/0.3/0.2/0.14/0.12; length of part of costa between R_{2+3} and R_{4+5} and this between R_{4+5} and M_{1+2} , 0.36/0.22; length of cross-vein dm-m and distal part of M_4 , 0.19/0.36.

Modified couplet in the key to Palaearctic species of *Campsicnemus* (males) published by Grichanov (Grichanov 2009):

5. Legs entirely simple, without elongated hairs on tarsi or femora; legs mostly yellow 5a
- Legs with elongated hairs on fore tarsus or hind femur or on mid femur and tibia; legs variously coloured 6
- 5a. Wing vein dm-m 1/2, usually 2/5 as long as distal section of M_4 ; 4 pairs of dorsocentrals; acrostichals present; 1.5–2 mm *C. simplicissimus* Strobl
- Wing vein dm-m 2/3 as long as distal section of M_4 ; 3 pairs of dorsocentrals, acrostichals absent; 1.5 mm *C. simplicissimus* sensu Parent.

9. *Campsicnemus umbripennis* Loew, 1856

Material examined. 1♂, Krasnodar Krai, Apsheronsk distr., Kamyshanova Polyana biostation, 13–19.07.2008, V. Gladun; 1♀, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, 1200 m, 04.06.2011, S. Kustov; 1♂, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, Bolshoy waterfall, 02.05.2014, S. Kustov; 1♀, Krasnodar Krai, Goryachy Klyuch distr., env. of Oktyabrsky vill., 08.03.2013, S. Kustov; 1♀, Krasnodar Krai, Goryachy Klyuch distr., env. of Oktyabrsky vill., 14.04.2013, S. Kustov; 1♀, Krasnodar Krai, Sochi, Adler distr., Estosadok vill., spring, 43.68° N, 40.27° E, 19.07.2024, I. Grichanov; 3♂, 4♀, Krasnodar Krai, Sochi distr., Caucasian Nature Reserve, Achipse River upper stream, 43.72° N, 40.14° E, 26.09.2023, M. Koblova (in ethanol); 1♀, Adygea, Maikop distr., Caucasian Nature Reserve, Tybga Mt., 2020 m, 12.08.2009, S. Kustov; 1♀, Adygea, Maikop distr., Caucasian Nature Reserve, foot of Mt Oshten, Lake March 8th, 13.06.2015, S. Kustov.

Distribution. Caucasus: Abkhazia, Armenia, Azerbaijan, Georgia, Russia (Adygea, Alania, Chechnya, Kabardino-Balkaria, Karachay-Cherkessia, Krasnodar). Europe and North Africa, eastward to Central Asia.

10. *Campsicnemus varipes* Loew, 1859

Fig. 2

=*Campsicnemus armeniacus* Negrobov, Manko, Hrivniak, Obona, 2017: 70, **syn. nov.** Type locality: Armenia: Kotayk Province, below Hankavan, Marmarik River.

Material examined. 1♂, Krasnodar Krai, Novorossiysk distr., Dyurso vill., Dyurso River, reed and sedge at banks, 44.682° N, 37.563° E, 6 m, 21–22.07.2017, O. Kosterin (in ethanol); 3♀, Krasnodar Krai, Goryachy Klyuch distr., Fanagoriyskoye vill., Chepsi River, 44.51° N, 39.10° E, 5–7.07.2024, I. Grichanov; 1♀, Krasnodar Krai, Tuapse distr., 2 km S Shabanovskii Pass, 44.48° N, 38.77° E, 9.07.2024, I. Grichanov.

Distribution. Caucasus: Armenia, Azerbaijan,



Fig. 2. *Campsicnemus varipes* Loew, male habitus (A), wing (B), head (C) and tarsi (D). Scale bars not available

Рис. 2. *Campsicnemus varipes* Loew, самец: внешний вид (A), крыло (B), голова (C) и лапки (D). Измерительной линейки нет в наличии

Russia (Adygea, Kabardino-Balkaria, Krasnodar, Rostov). Other countries: Austria, Bulgaria, France, Germany, Hungary, Italy, Kyrgyzstan, Romania, Russia (Sverdlovsk), Slovakia, Tajikistan, Turkey, Uzbekistan.

Notes. *Campsicnemus varipes* is a rare, but widespread species described from Austria 'bei Wien' and known from Europe, the Caucasus, Turkey, and Middle Asia. The description and illustrations of *C. armeniacus* (Negrobov et al. 2017b) has no differences from the *C. varipes* species concept (Becker 1918; Parent 1938; Grichanov 2009). At present, we consider *C. armeniacus* as a junior synonym of *C. varipes*.

11. *Chrysotimus molliculus* (Fallén, 1823)

Material examined. 1♂, Krasnodar Krai, Goryachy Klyuch distr., Fanagoriyskoye vill., Chepsi River, 44.51° N, 39.10° E, 5.07.2024, I. Grichanov; 1♂, Krasnodar Krai, Severskaya distr., 1 km W Tkhamakha vill., 44.60° N, 38.83° E, 9.07.2024, I. Grichanov.

Distribution. Caucasus: Azerbaijan, Georgia, Russia (Adygea, Krasnodar). European species.

12. *Chrysotus angulicornis* Kowarz, 1874

Material examined. 1♂, Adygea, Maikop distr., Caucasian Nature Reserve, Tybga Mt.,

2500–2700 m, 31.07.2011, S. Kustov; 1♂, Krasnodar Krai, Apsheronsk distr., env. of Nezhnaya cave, 12.07.2011, M. Babichev.

Distribution. Caucasus: Abkhazia, Adygea, Azerbaijan, Georgia, Russia (Adygea, Alania, Dagestan, Karachay-Cherkessia, Krasnodar). Europe, Iran, Turkey.

13. *Chrysotus cilipes* Meigen, 1824

Material examined. 1♂, Krasnodar Krai, Dinskaya distr., 10 km N Vasyurinskaya stanitsa, bank of the First Kochety River, 22.05.2013, S. Nesterenko, V. Gladun; 1♀, Krasnodar Krai, Goryachy Klyuch distr., Fanagoriyskoye vill., pond, 44.52° N, 39.12° E, 8.07.2024, I. Grichanov.

Distribution. Caucasus: Abkhazia, Armenia, Azerbaijan, Russia (Adygea, Kabardino-Balkaria, Karachay-Cherkessia, Krasnodar, Rostov). Trans-Palaeartic species.

14. *Chrysotus defensus* Negrobov et Maslova, 2000

Material examined. 3♂, Krasnodar Krai, Goryachy Klyuch distr., Fanagoriyskoye vill., Chepsi River, 44.51° N, 39.10° E, 5.07.2024, I. Grichanov; 1♂, 1♀, Krasnodar Krai, Severskaya distr., 1 km W Tkhamakha vill., 44.60° N, 38.83° E, 9.07.2024, I. Grichanov.

Distribution. Caucasus: Russia (Adygea, Krasnodar).

15. *Chrysotus gramineus* (Fallén, 1823)

Material examined. 4♂, 4♀, Krasnodar Krai, Severskaya distr., 1 km W Tkhamakha vill., 44.60° N, 38.83° E, 9.07.2024, I. Grichanov.

Distribution. Caucasus: Abkhazia, Armenia, Azerbaijan, Georgia, Russia (Adygea, Kabardino-Balkaria, Karachay-Cherkessia, Krasnodar). Trans-Palaeartic species.

16. *Chrysotus pulchellus* Kowarz, 1874

Material examined. 1♂, Krasnodar Krai, Sochi, Adler distr., Estosadok vill., spring, 43.68° N, 40.27° E, 21.07.2024, I. Grichanov.

Distribution. Caucasus: Armenia, Georgia, Russia (Adygea, Dagestan, Karachay-Cherkessia, Krasnodar). Trans-Palaeartic species.

17. *Chrysotus suavis* Loew, 1857

Material examined. 1♂, Krasnodar Krai, Apsheronsk distr., Nizhegorodskaya stanitsa,

44.26° N, 39.92° E, 16.07.2024, I. Grichanov; 1♂, Krasnodar Krai, env. of Krasnodar, Krasnyi Kut forest park, 44.98° N, 39.04° E, 17.07.2024, I. Grichanov.

Distribution. Caucasus: Armenia, Azerbaijan, Georgia, Russia (Adygea, Alania, Kabardino-Balkaria, Krasnodar, Rostov). Trans-Palaeartic species.

18. *Diaphorus hoffmannseggii* Meigen, 1830

Material examined. 1♂, Krasnodar Krai, Tuapse distr., 2 km S Shabanovskii Pass, 44.48° N, 38.77° E, 9.07.2024, I. Grichanov.

Distribution. Caucasus: Russia (Krasnodar). Europe, Israel, Turkey.

19. *Diaphorus nigricans* Meigen, 1824

Material examined. 1♂, 1♀, Krasnodar Krai, Krasnodar, botanical garden of Kuban State University, forb meadow, 45°00'42", 16 N, 39°06'05" E, 30 m, 09.06.2022, Penchukova.

Distribution. Caucasus: Abkhazia, Russia (Krasnodar). Palaeartic, Afrotropical, Oriental, Nearctic and Neotropical Regions.

20. *Dolichopus brevipennis* Meigen, 1824

Material examined. 1♂, Adygea, Maikop distr., Caucasian Nature Reserve, Lago-Naki plateau, snowfield, 1900 m, 23.07.2016, V. Gladun.

Distribution. Caucasus: Russia (Adygea, Kabardino-Balkaria, Krasnodar). Holarctic species.

21. *Dolichopus brunneilineatus* Negrobov, 1976

Material examined. 1♂, 1♀, North Caucasus, Krasnodar Krai, Novorossiysk distr., Dyurso vill., Dyurso River, reed and sedge at banks, 44.682° N, 37.563° E, 6 m, 21–22.07.2017, O. Kosterin (in ethanol).

Distribution. Mongolia. First record from West Palaeartic. New for Russia, the Caucasus and Krasnodar Krai.

22. *Dolichopus calinotus* Loew, 1871

Material examined. 1♂, Krasnodar Krai, Primorsko-Akhtarsk distr., Yasenskaya Spit, 29.04.2010, S. Kustov.

Distribution. Caucasus: Russia (Rostov). Europe, Turkey, Kazakhstan, Kyrgyzstan. New for Krasnodar Krai.

23. *Dolichopus campestris* Meigen, 1824
Material examined. 1♂, Krasnodar Krai, Goryachy Klyuch distr., Fanagoriyskoye vill., pond, 44.52° N, 39.12° E, 8.07.2024, I. Grichanov.

Distribution. Caucasus: Armenia, Georgia, Russia (Adygea, Alania, Kabardino-Balkaria, Krasnodar). Trans-Palaeartic species.

24. *Dolichopus cilifemoratus* Macquart, 1827

Material examined. 3♂, Krasnodar Krai, Krasnodar, botanical garden of Kuban State University, 15.06.2010, V. Gladun; 1♂, Krasnodar Krai, Goryachy Klyuch distr., env. of Fanagoriyskoye vill., Chepsi River valley, 44°29'59" N, 39°04'42" E, 111 m, 29.07.2017, V. Gladun; 3♂, 1♀, Krasnodar Krai, Goryachy Klyuch distr., Fanagoriyskoye vill., Chepsi River, 44.51° N, 39.10° E, 5, 6.07.2024, I. Grichanov.

Distribution. Caucasus: Armenia, Georgia, Russia (Adygea, Dagestan, Karachay-Cherkessia, Krasnodar). Trans-Palaeartic species.

25. *Dolichopus claviger* Stannius, 1831

Material examined. 1♂, 1♀, Krasnodar Krai, Krymsk distr., env. of Neberdzhavskaya stanitsa, 22.05.2010, S. Kustov; 1♀, Krasnodar Krai, Goryachy Klyuch distr., env. of Oktyabrsky vill., Mokryi Sepsil River, 29.05.2013, S. Kustov, V. Gladun; 1♀, Krasnodar Krai, Apsheronsk distr., Kamyshevanova Polyana Nature Reserve, 900–1200 m, 13.06.2014, S. Kustov.

Distribution. Caucasus: Russia (Adygea, Alania, Kabardino-Balkaria, Karachay-Cherkessia, Krasnodar). Trans-Palaeartic species.

26. *Dolichopus griseipennis* Stannius, 1831

Material examined. 1♀, Krasnodar Krai, Krasnodar, botanical garden of Kuban State University, 15.06.2010, V. Gladun; 1♂, Krasnodar Krai, Krasnodar, park of 30th Anniversary of Victory, 21.05.2006, Drozdova; 1♀, Krasnodar Krai, Goryachy Klyuch distr., env. of Oktyabrsky vill., Mokryi Sepsil River, 29.05.2013, S. Kustov, V. Gladun; 1♀, Krasnodar Krai, Temryuk distr., shore of

Kiziltashsky and Tsokur limans, 07.06.2009, S. Kustov; 1♀, Krasnodar Krai, Kalininskaya distr., 3 km NW Severnyi khutor, Ponursky liman, 45°27'47" N, 38°33'16" E, 5 m, 02.10.2019, E. Tyshchenko, I. Tkachenko; 1♂, Krasnodar Krai, Apsheronsk distr., env. of Gornyi vill., 44°32'24" N, 39°35'48" E, 21.05.2017, S. Kustov; 3♂, Krasnodar Krai, env. of Krasnodar, Krasnodarsky forest park, 44.99° N, 39.08° E, 17.07.2024, I. Grichanov; 1♂, Adygea, Tahtamukai distr., Enem vill., 28.05.2017, S. Kustov.

Distribution. Caucasus: ?Armenia, Azerbaijan, Georgia, Russia (Adygea, Krasnodar). West Palaeartic species.

27. *Dolichopus latilimbatus* Macquart, 1827

Material examined. 1♂, Krasnodar Krai, Severskaya distr., env. of Lvovsky khutor, edge of rice paddy field, 28.04.2012, V. Gladun, S. Nesterenko; 7♂, 1♀, Krasnodar Krai, Anapa distr., Utrish Nature Reserve, env. of Sukko vill., Sukhoi Liman Lake, 44.753–755° N, 37.455–458° E, 294 m, 23.07.2017, O. Kosterin (in ethanol); 7♂, 1♀, Krasnodar Krai, Novorossiysk distr., Dyurso vill., Dyurso River, reed and sedge at banks, 44.682° N, 37.563° E, 6 m, 21–22.07.2017, O. Kosterin (in ethanol).

Distribution. Caucasus: Abkhazia, Azerbaijan, Russia (Karachay-Cherkessia, Krasnodar, Rostov). West and Central Palaeartic species.

28. *Dolichopus linearis* Meigen, 1824

Material examined. 1♂, Krasnodar Krai, Goryachy Klyuch distr., Fanagoriyskoye vill., Chepsi River, 44.51° N, 39.10° E, 5.07.2024, I. Grichanov.

Distribution. Caucasus: Georgia, Russia (Adygea, Krasnodar). Trans-Palaeartic species.

29. *Dolichopus nubilus* Meigen, 1824

Material examined. 1♀, Krasnodar Krai, Temryuk distr., env. of Priazovsky vill., 09.05.2010, S. Kustov; 1♂, Krasnodar Krai, Temryuk distr., eastern shore of Kurchansky liman, arid steppe, 13.05.2010, S. Kustov; 1♀, Krasnodar Krai, env. of Krasnodar, Krasnyi Kut forest park, 44°59'26" N, 39°01'20" E, 25 m,

02.05.2016, V. Gladun; 5♂, 3♀, Krasnodar Krai, env. of Krasnodar, Krasnyi Kut forest park, 44°58'32" N, 39°01'12" E, 19 m, 22.05.2016, V. Gladun; 1♀, Krasnodar Krai, env. of Krasnodar, Krasnyi Kut forest park, 44°58'43" N, 39°01'15" E, 20 m, 29.05.2016, V. Gladun; 3♂, 9♀, Krasnodar Krai, Anapa distr., Utrish Nature Reserve, env. of Sukko vill., Sukhoi Liman Lake, 44°45'15" N, 37°27'18" E, 302 m, 08.05.2016, S. Kustov, V. Gladun; 1♂, Adygea, Teuchezhsky distr., Tlyustenhabl aul, bank of the Kuban River, 02.05.2010, V. Gladun; 1♂, 1♀, Krasnodar Krai, env. of Krasnodar, Krasnyi Kut forest park, 44.98° N, 39.04° E, 17.07.2024, I. Grichanov; 1♂, Krasnodar Krai, Anapa distr., Utrish Nature Reserve, env. of Sukko vill., Sukhoi Liman Lake, 44.753-755° N, 37.455-458° E, 294 m, 23.07.2017, O. Kosterin (in ethanol); 2♂, 5♀, Krasnodar Krai, Novorossiysk distr., Dyurso vill., Dyurso River, reed and sedge at banks, 44.682° N, 37.563° E, 6 m, 21–22.07.2017, O. Kosterin (in ethanol).

Distribution. Armenia, Azerbaijan, Russia (Adygea, Krasnodar, Rostov). Trans-Palaearctic species.

30. *Dolichopus pennatus* Meigen, 1824

Material examined. 3♂♀, Krasnodar Krai, Apsheronsk distr., Kamyshanova Polyana Nature Reserve, 1200 m, 22–25.06.2013, S. Kustov.

Distribution. Caucasus: Georgia, Russia (Adygea, Alania, Chechnya, Kabardino-Balkaria, Karachay-Cherkessia, Krasnodar). Trans-Palaearctic species.

31. *Dolichopus plumipes* (Scopoli, 1763)

Material examined. 1♀, Krasnodar Krai, Sochi distr., Caucasian Nature Reserve, env. of Kardyvach Lake, 1800 m, 01.08.2010, S. Kustov; 4♂, 6♀, Sochi distr., Caucasian Nature Reserve, Achipse River upper stream, 43.72° N, 40.14° E, 26.09.2023, M. Koblova (in ethanol); 1♀, Adygea, Maikop distr., Caucasian Nature Reserve, Lago-Naki plateau, 1900 m, 18.07.2012, S. Kustov; 3♀, Adygea, Maikop distr., Caucasian Nature Reserve, Tybga Mt., 2020 m, 12–13.08.2009, S. Kustov, V. Gladun.

Distribution. Caucasus: Georgia, Russia (Adygea, Alania, Kabardino-Balkaria,

Karachay-Cherkessia, Krasnodar, Rostov). Mainly Holarctic species.

32. *Dolichopus plumitarsis* Fallén, 1823

Material examined. 1♂, Krasnodar Krai, Krasnodar, botanical garden of Kuban State University, 15.06.2010, V. Gladun.

Distribution. Caucasus: Russia (Karachay-Cherkessia, Krasnodar). Holarctic species.

33. *Dolichopus popularis* Wiedemann, 1817

Material examined. 1♂, Krasnodar Krai, Apsheronsk distr., Kamyshanova Polyana Nature Reserve, Olenya glade, 13.07.2013, V. Gladun; 1♂, Krasnodar Krai, Apsheronsk distr., Kamyshanova Polyana Nature Reserve, spring, 44.17° N, 40.00° E, 13.07.2024, I. Grichanov.

Distribution. Caucasus: Georgia, Russia (Adygea, Karachay-Cherkessia, Krasnodar). Europe, Siberia.

34. *Dolichopus salictorum* Loew, 1871

Material examined. 2♂, Krasnodar Krai, Mostovsky distr., env. of Gubskaya stanitsa, Dzhigitlyovka River, broadleaf forest, 44°21'25" N, 40°36'28" E, 502 m, 08.08.2020, V. Gladun; 1♀, Krasnodar Krai, Severskaya distr., env. of Thamaha vill., Adegaka River valley, oak and beech forest, 44°35'43.9" N, 38°53'04.29" E, 104 m, 30.04.2024, V. Gladun; 1♀, Krasnodar Krai, Goryachy Klyuch distr., env. of Oktyabrsky vill., river, 13.05.2012, S. Kustov; 6♂, 1♀, Adygea, Tahtamukai distr., Enem vill., 28.05.2017, S. Kustov.

Distribution. Caucasus: Russia (Krasnodar). Europe, Turkey, and Iran. New for Adygea.

35. *Dolichopus signifer* Haliday, 1832

Material examined. 1♀, Krasnodar Krai, Anapa distr., Utrish Nature Reserve, env. of Sukko vill., Sukhoi Liman Lake, 44°45'15" N, 37°27'18" E, 302 m, 08.05.2016, S. Kustov, V. Gladun; 2♀, Krasnodar Krai, Temryuk distr., env. of Priazovsky vill., 09.05.2010, S. Kustov; 1♂, 1♀, Krasnodar Krai, Shcherbinovsky distr., Glafirovskaya Spit, 04.06.2010, S. Kustov; 1♀, Krasnodar Krai, Goryachy Klyuch distr., env. of Oktyabrsky vill., Mokryi Sepsil River, 29.05.2013, S. Kustov, V. Gladun; 1♀, Adygea, Teuchezhsky distr., Tlyustenhabl

aul, bank of the Kuban River, 02.05.2010, V. Gladun; 2♀, Adygea, Tahtamukai distr., env. of Shapsugskoe Reservoir, 03.05.2010, V. Gladun.

Distribution. Caucasus: Armenia, Azerbaijan, Georgia, Russia (Chechnya, Kabardino-Balkaria, Krasnodar, Rostov). West Palaearctic species.

36. *Dolichopus strigipes* Verrall, 1875

Material examined. 2♂, Krasnodar Krai, Temryuk distr., Sennoi vill., shore of Tamansky Bay, 09.06.2013, S. Kustov.

Distribution. Europe, Morocco, Turkey. New for the Caucasus and Krasnodar Krai.

37. *Dolichopus unguatus* (Linnaeus, 1758)

Material examined. 1♀, Krasnodar Krai, Apsheronsk distr., Kamyshanova Polyana biostation, 13–19.07.2008, V. Gladun.

Distribution. Caucasus: Georgia, Russia (Adygea, Alania, Chechnya, Dagestan, Kabardino-Balkaria, Karachay-Cherkessia, Krasnodar). Trans-Palaearctic species.

38. *Guzeriplia viridana* Negrobov, 1978

Material examined. 1♂, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, Mezmai River, 44.20° N, 40.04° E, 14.07.2024, I. Grichanov.

Distribution. Caucasus: Russia (Adygea, Karachay-Cherkessia, Krasnodar).

39. *Gymnopternus aerosus* (Fallén, 1823)

Material examined. 1♀, Krasnodar Krai, Goryachy Klyuch distr., env. of Oktyabrsky vill., River, 13.05.2012, S. Kustov; 3♂, 1♀, Krasnodar Krai, Goryachy Klyuch distr., env. of Oktyabrsky vill., Mokryi Sepsil River, 29.05.2013, S. Kustov, V. Gladun; 1♀, Krasnodar Krai, Goryachy Klyuch distr., env. of Oktyabrsky vill., 18.05.2014, S. Kustov; 1♀, Krasnodar Krai, env. of Krasnodar, Krasnyi Kut forest park, 44°58'40" N, 39°01'21" E, 22 m, 13.06.2016, V. Gladun; 1♂, Krasnodar Krai, Apsheronsk distr., env. of Temnolesskaya stanitsa, broadleaf forest, Mezmai River, 44°10'50" N, 40°03'23" E, 1129 m, 23.07.2019, V. Gladun; 1♂, Krasnodar Krai, Belorechensk distr., env. of Verhnevedenevsky vill., riparian forest, road, 44°49'56" N, 39°48'14" E, 98 m,

07.05.2019, V. Gladun, E. Tyshchenko; 23♂, 4♀, Krasnodar Krai, Goryachy Klyuch distr., Fanagoriyskoye vill., Chepsi River, 44.51° N, 39.10° E, 5–7.07.2024, I. Grichanov; 3♂, Krasnodar Krai, Tuapse distr., 2 km S Shabanovskii Pass, 44.48° N, 38.77° E, 9.07.2024, I. Grichanov; 1♂, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, spring, 44.17° N, 40.00° E, 13.07.2024, I. Grichanov; 1♀, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, Mezmai River, 44.20° N, 40.05° E, 14.07.2024, I. Grichanov; 2♀, Krasnodar Krai, Sochi, Adler distr., Estosadok vill., brook, 43.69° N, 40.25° E, 19.07.2024, I. Grichanov; 1♂, Krasnodar Krai, Sochi, Adler distr., Estosadok vill., brook, 43.69° N, 40.23° E, 20.07.2024, I. Grichanov; 2♂, 4♀, Krasnodar Krai, Sochi, Adler distr., Estosadok vill., spring, 43.68° N, 40.27° E, 21.07.2024, I. Grichanov; 1♂, 3♀, Krasnodar Krai, Sochi, Caucasian Nature Reserve, env. of Krasnaya Polyana vill., 43.69° N, 40.18° E, 13.09.2023, M. Koblova (in ethanol); 1♂, Abkhazia: Sukhum distr., left bank of the Eastern Gumista River, env. of 1st area of Sukhum hydroelectric power station, stream of Svinaya Balka, 460 m, 27.06.2013, D. Zhrebilo.

Distribution. Caucasus: Abkhazia, Russia (Adygea, Alania, Karachay-Cherkessia, Krasnodar). Trans-Palaearctic species.

40. *Gymnopternus blankaartensis* (Pollet, 1991)

Material examined. 1♂, Russia, Krasnodar Krai, Gelendzhik distr., env. of Arkhipo-Osipovka vill., 44.356–365° N, 38.536–539° E, 13–266 m, 27.05.2018, O. Kosterin (in ethanol); ♂, Russia, Krasnodar Krai, Anapa distr., env. of Malyy Utrish vill., 44.69–72° N, 37.45–52° E, 5–64 m, 23–24.05.2018, O. Kosterin (in ethanol).

Distribution. Caucasus: Azerbaijan, Russia (Krasnodar). Western Palaearctic species.

41. *Gymnopternus celer* (Meigen, 1824)

Material examined. 5♂, Krasnodar Krai, Apsheronsk distr., Kamyshanova Polyana biostation, 13–19.07.2008, V. Gladun; 2♂, Krasnodar Krai, Apsheronsk distr., Kamyshanova Polyana Nature Reserve, Malyy

waterfall, river bank, 1135 m, 44°10'49" N, 40°03'22" E, 13–14.07.2017, V. Gladun; 1♂, Krasnodar Krai, Apsheronsk distr., right bank of the Tsitsa River, meadow, 22.05.2012, Nesterenko; 5♂, 1♀, Krasnodar Krai, Goryachy Klyuch distr., env. of Oktyabrsky vill., Mokryi Sepsil River, 29.05.2013, S. Kustov, V. Gladun; 3♂, 3♀, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, Mezmai River, 44.20° N, 40.05° E, 14.07.2024, I. Grichanov; 1♂, Krasnodar Krai, Sochi, Adler distr., Estosadok vill., brook, 43.69° N, 40.23° E, 20.07.2024, I. Grichanov.

Distribution. Caucasus: Russia (Krasnodar). Trans-Palaeartic species (except for the Far East).

42. *Gymnopternus silvestris* (Pollet, 1991)

Material examined. 1♂, Krasnodar Krai, Goryachy Klyuch distr., env. of Oktyabrsky vill., Mokryi Sepsil River, 29.05.2013, S. Kustov, V. Gladun; 5♂, 9♀, Krasnodar Krai, env. of Krasnodar, Krasnyi Kut forest park, 44°58'32" N, 39°01'12" E, 19 m, 22.05.2016, V. Gladun; 1♂, Krasnodar Krai, env. of Krasnodar, Krasnyi Kut forest park, 44°58'43" N, 39°01'15" E, 20 m, 29.05.2016, V. Gladun; 1♂, Krasnodar Krai, env. of Krasnodar, Krasnyi Kut forest park, 44°58'40" N, 39°01'21" E, 22 m, 13.06.2016, V. Gladun.

Distribution. Belgium, Czechia, France, Germany, Netherlands, Russia (Kaliningrad), Switzerland, Turkey, UK. New for the Caucasus and Krasnodar Krai.

43. *Hercostomus blepharopus* (Loew, 1871)

Material examined. 5♂, 2♀, Sochi, Sochi Natural Park, Khosta distr., env. of Izmaylovka vill., 1st Zmeikovsky waterfall, 43.63° N, 39.81° E, 17.09.2023, M. Koblova (in ethanol).

Distribution. Caucasus: Abkhazia, Russia (Krasnodar). Russia (Tatarstan), Tajikistan, Turkmenistan, Uzbekistan.

44. *Hercostomus chetifer* (Walker, 1849)

Material examined. 1♂, Krasnodar Krai, Apsheronsk distr., Kamyshanova Polyana Nature Reserve, Universitetskii waterfall, 995 m, 09.07.2009, S. Kustov; 1♀, Krasnodar Krai, Apsheronsk distr., env. of Guamka khutor, Kurdzhips River valley, spring, forest, 44°13'28" N, 39°54'15" E, 10.09.2017,

V. Gladun; 5♂, Krasnodar Krai, Novorossiysk distr., Utrish Nature Reserve, Mokraya crevice, 44°41'45" N, 37°30'59" E, 05.06.2013, M. Babichev, S. Kustov; 1♂, Krasnodar Krai, Goryachy Klyuch distr., env. of Oktyabrsky vill., 18.05.2014, S. Kustov; 1♂, Krasnodar Krai, Sochi, Adler distr., Estosadok vill., brook, 43.69° N, 40.25° E, 19.07.2024, I. Grichanov; 4♂, Krasnodar Krai, Sochi, Adler distr., Estosadok vill., brook, 43.69° N, 40.23° E, 20.07.2024, I. Grichanov; 1♂, Krasnodar Krai, Sochi, Adler distr., Railway Station Roza Khutor, spring, 43.67° N, 40.29° E, 21.07.2024, I. Grichanov; 1♂, 1♀, Krasnodar Krai, Sochi, Adler distr., env. of Krasnaya Polyana vill., 43.67° N, 40.19° E, 16–21.09.2024, M. Yanbulat; 2♂, 2♀, Abkhazia: Sukhum distr., left bank of the Eastern Gumista River, env. of the 1st area of Sukhum hydroelectric power station, stream of Svinaya Balka, 460 m, 27.06.2013, D. Zherebilo.

Distribution. Caucasus: Abkhazia, Armenia, Russia (Adygea, Chechnya, Krasnodar). West Palaeartic and Nearctic species. New for Abkhazia.

45. *Hercostomus conformis* (Loew, 1857)

Material examined. 1♂, 4♀, Krasnodar Krai, Apsheronsk distr., env. of Temnolesskaya stanitsa, Kamyshanova Polyana Nature Reserve, meadow, 44°09'47" N, 40°01'56" E, 1227 m, 12.07.2017, V. Gladun; 2♂, Krasnodar Krai, Apsheronsk distr., Ardova glade, 44°08'15" N, 40°03'24" E, 1454 m, 16.07.2017, V. Gladun; 1♂, Krasnodar Krai, Apsheronsk distr., Ardova glade, 1400 m, 08.07.2009, V. Gladun; 2♂, 3♀, Krasnodar Krai, Apsheronsk distr., Ardova glade, 1400 m, 08.07.2009, S. Kustov; 1♂, Krasnodar Krai, Apsheronsk distr., Kamyshanova Polyana Nature Reserve, 1220 m, 13.07.2016, V. Gladun; 1♂, 2♀, Krasnodar Krai, Apsheronsk distr., Kamyshanova Polyana Nature Reserve, 1300 m, 15.07.2016, V. Gladun; 3♀, Krasnodar Krai, Apsheronsk distr., Kamyshanova Polyana biostation, 13–19.07.2008, V. Gladun; 2♂, 1♀, Krasnodar Krai, Apsheronsk distr., Kamyshanova Polyana Nature Reserve, Olenya glade, 13.07.2013, V. Gladun; 1♂,

Krasnodar Krai, Apsheronsk distr., env. of Temnolesskaya stanitsa, Kamyshanova Polyana Nature Reserve, broadleaf forest, glade, 44°09'10" N, 40°02'21" E, 1284 m, 17.07.2019, V. Gladun; 2♀, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, 15.07.2015, V. Gladun; 4♂, 1♀, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, Bolshie glades, 09.07.2013, V. Gladun; 1♀, Krasnodar Krai, Sochi distr., Caucasian Nature Reserve, Kardyvach Lake, 1800 m, 01.08.2010, V. Gladun.

Distribution. Caucasus: Armenia, Russia (Adygea, Krasnodar, Ossetia). Europe and Turkey.

46. *Hercostomus fugax* (Loew, 1857)

Material examined. 1♂, Krasnodar Krai, Sochi distr., Caucasian Nature Reserve, env. of Kardyvach Lake, 1800 m, 01.08.2010, S. Kustov; 1♂, Adygea, Maikop distr., Caucasian Nature Reserve, Tybga Mt., 2500–2700 m, 31.07.2011, S. Kustov; 1♀, Adygea, Maikop distr., Caucasian Nature Reserve, Lago-Naki plateau, 1900 m, 18.07.2012, V. Gladun; 1♀, Adygea, Maikop distr., Caucasian Nature Reserve, Lago-Naki plateau, 1900 m, 20.07.2012, V. Gladun; 1♀, Adygea, Maikop distr., Caucasian Nature Reserve, Lago-Naki plateau, snowfield, 1900 m, 23.07.2016, V. Gladun.

Distribution. Caucasus: Azerbaijan, Georgia, Russia (Adygea, Karachay-Cherkessia, Krasnodar). Europe, Siberia.

47. *Hercostomus longiventris* (Loew, 1857)

Material examined. 1♂, Krasnodar Krai, Apsheronsk distr., Kamyshanova Polyana Nature Reserve, Malyi waterfall, river bank, 1135 m, 44°10'49" N, 40°03'22" E, 13–14.07.2017, V. Gladun; 1♂, Krasnodar Krai, Apsheronsk distr., Kamyshanova Polyana Nature Reserve, forest lake, 1180 m, 16.07.2018, V. Gladun; 1♂, Krasnodar Krai, Sochi distr., Caucasian Nature Reserve, env. of Krasnaya Polyana vill., 43.69° N, 40.18° E, 13.09.2023, M. Koblova.

Distribution. Caucasus: Georgia, Russia (Alania, Kabardino-Balkaria, Krasnodar). West Palaearctic species.

48. *Hercostomus nigriplantis* (Stannius, 1831)

Material examined. 1♂, Krasnodar Krai, env. of Krasnodar, Krasnyi Kut forest park, 44°58'32" N, 39°01'12" E, 19 m, 22.05.2016, V. Gladun; 5♂, 2♀, Krasnodar Krai, env. of Krasnodar, Krasnyi Kut forest park, 44°58'43" N, 39°01'15" E, 20 m, 29.05.2016, V. Gladun; 3♂, 3♀, Krasnodar Krai, env. of Krasnodar, Krasnyi Kut forest park, 44°58'40" N, 39°01'21" E, 22 m, 13.06, 19.06.2016, V. Gladun; 1♀, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, Malyi waterfall, 17.07.2015, V. Gladun.

Distribution. Caucasus: Armenia, Georgia, Russia (Adygea, Kabardino-Balkaria, Krasnodar). Europe, Siberia.

49. *Hercostomus sahlbergi* (Zetterstedt, 1838)

Material examined. 3♂, 1♀, Adygea, Maikop distr., Caucasian Nature Reserve, Tybga Mt., 2020 m, 12.08.2009, S. Kustov; 2♂, Adygea, Maikop distr., Caucasian Nature Reserve, Tybga Mt., 2020 m, 31.07.2011, V. Gladun, M. Babichev; 1♂, Karachay-Cherkessia, Teberda env., 2NT, G. Davidyan, 16.07.2021 (in ethanol); 1♂, Karachay-Cherkessia, Teberda env., 6NT, G. Davidyan, 20.07.2021 (in ethanol); 5♂, 4♀, Karachay-Cherkessia, Teberda env., 1NT, G. Davidyan, 23.07.2021 (in ethanol).

Distribution. Caucasus: Georgia, Russia (Adygea, Alania, Dagestan, Kabardino-Balkaria, Karachay-Cherkessia, Krasnodar). Trans-Palaearctic species.

50. *Hydrophorus balticus* (Meigen, 1824)

Material examined. 1♂, Adygea, Maikop distr., Caucasian Nature Reserve, Tybga Mt., 2020 m, 12.08.2009, S. Kustov; 1♀, Adygea, Maikop distr., Caucasian Nature Reserve, Tybga Mt., 2020 m, 13.08.2009, V. Gladun.

Distribution. Caucasus: Azerbaijan, Georgia, Russia (Adygea, Alania, Chechnya, Kabardino-Balkaria, Karachay-Cherkessia, Krasnodar). Trans-Palaearctic species; Afrotropical Region.

51. *Hydrophorus praecox* (Lehmann, 1822)

Material examined. 1♀, Krasnodar Krai, Vyselki distr., env. of Berezanskaya stanitsa, river bank, 20.05.2012, S. Kustov; 1♀, Krasnodar Krai, Apsheronsk distr., Kamyshanova Polyana Nature Reserve, 1200 m, 22–25.06.2013, S. Kustov; 1♀, Krasnodar Krai, Apsheronsk distr., env.

of Kamyshanova Polyana biostation, Bolshoy waterfall, 02.05.2014, S. Kustov; 5♀, Krasnodar Krai, Temryuk distr., env. of Priazovsky vill., near lake, 07.10.2012, S. Kustov; 1♀, Krasnodar Krai, Sochi, Adler distr., Achipse river mouth, 43.70° N, 40.27° E, 18.07.2024, I. Grichanov.

Distribution. Caucasus: Abkhazia, Georgia, Russia (Chechnya, Kabardino-Balkaria, Krasnodar, Stavropol). Palaearctic, Oriental, Afrotropical and Australasian Regions.

52. *Lamprochromus kowarzi* Negrobov et Tshalaja, 1988

Material examined. 1♀, Krasnodar Krai, Krasnodar, Karasunsky garden square, shore of Lake Karasun, 5:00 p.m., 20 °C, 10.10.2008, B. Volfov.

Distribution. Caucasus: Azerbaijan, Russia (Chechnya). Israel, Slovakia, UK (England). New for Krasnodar Krai.

53. *Liancalus virens* (Scopoli, 1763)

Material examined. 1♂, Krasnodar Krai, Gelendzhik distr., env. of Betta khutor, Betta River, 44°24'07" N, 38°24'18" E, 12.06.2013, V. Gladun; 1♀, Krasnodar Krai, Novorossiysk distr., Utrish Nature Reserve, Mokraya crevice, 44°41'45" N, 37°30'59" E, 05.06.2013, M. Babichev, S. Kustov; 1♀, Krasnodar Krai, Apsheronsk distr., Kamyshanova Polyana Nature Reserve, Gorelaya Balka River, 1100 m, 01.05.2015, S. Kustov; 2♂, Krasnodar Krai, Sochi distr., Caucasian Nature Reserve, Achipse River upper stream, 43.72° N, 40.14° E, 26.09.2023, M. Koblova (in ethanol); 1♀, Abkhazia, Gudauta distr., Bzyb River, S slope of Bagri-Yashta ridge, 450 m, 11.07.2013, D. Zhrebilo; 1♂, Crimea, Feodosia distr., env. of Kurortnoe vill., foot of Mt Echki-Dag, 120 m, 09.06.2016, S. Kustov, V. Gladun.

Distribution. Caucasus: Abkhazia, Armenia, Azerbaijan, Georgia, Russia (Chechnya, Kabardino-Balkaria, Krasnodar, Stavropol). West and Central Palaearctic species.

54. *Medetera diadema* (Linnaeus, 1767)

Material examined. 1♂, 1♀, Crimea, Bakhchisarai distr., env. of Peschanoye vill., on tree, 30.08.2017, B. Volfov.

Distribution. Caucasus: Abkhazia, Russia (Alania, Adygea, Chechnya, Krasnodar). Holarctic species.

55. *Medetera jacula* (Fallén, 1823)

Material examined. 1♂, Adygea, Maikop distr., Caucasian Nature Reserve, Tybga Mt., 2500–2700 m, 31.07.2011, S. Kustov; 1♂, Adygea, Maikop distr., Lago-Naki plateau, 44.06° N, 40.02° E, 15.07.2024, I. Grichanov.

Distribution. Caucasus: Armenia, Azerbaijan, Georgia, Russia (Adygea, Alania, Chechnya, Kabardino-Balkaria, Krasnodar, Rostov, Stavropol). West and Central Palaearctic species.

Notes. Some old records of this species from foothills of the Caucasus may belong to *Medetera meridionalis* Negrobov, 1967.

56. *Medetera lamprostomoides* (?) Negrobov, 1972

Material examined. 1♂, Krasnodar Krai, Krasnodar, Dalnyaya street, in apartment, 29.06.2023, B. Volfov; 1♂, Krasnodar Krai, Krasnodar, Molodezhny public garden, on Tilia tree, 06.06.2010, B. Volfov; 1♂, Krasnodar Krai, Krasnodar, Sunny Island Park, on oak tree, 2:00 p.m.–3:00 p.m., 13.06.2010, B. Volfov.

Distribution. Kazakhstan, Russia (Yakutia), Turkey (Agri, Kars). New for the Caucasus and Krasnodar Krai.

Notes. The identification of the Krasnodar material needs confirmation.

57. *Medetera media* Parent, 1925

Material examined. 1♂, 1♀, Krasnodar Krai, Krasnodar, Molodezhny public garden, on maple trees, 2:00 p.m.–3:30 p.m., 06.06.2010, B. Volfov; 1♂, Krasnodar Krai, Krasnodar, Karasunsky public garden, 5:00 p.m., 20 °C, 10.10.2008, B. Volfov; 1♂, Krasnodar Krai, env. of Krasnodar, Krasnyi Kut forest park, 44.98° N, 39.04° E, 17.07.2024, I. Grichanov; 12♂, 7♀, Crimea, Bakhchisarai distr., env. of Peschanoye vill., on trees, 30.08.2017, B. Volfov; 6♂, 5♀, Crimea, Bakhchisarai distr., env. of Peschanoye vill., on trees, 31.08.2017, B. Volfov.

Distribution. The species was known from Egypt, Iran, Kazakhstan, Morocco, Tunisia, and Turkmenistan. New for Russia, the Caucasus, Krasnodar Krai and Crimea. Old records of *Medetera flavipes* Meigen, 1824 from the Caucasus and Crimea may belong to this species.

58. *Medetera meridionalis* Negrobov, 1967

Material examined. 1♂, 2♀, Crimea, Bakhchisarai distr., env. of Peschanoye vill., on trees, 30.08.2017, B. Volfov; 1♂, Crimea, Bakhchisarai distr., env. of Peschanoye vill., on trees, 31.08.2017, B. Volfov.

Distribution. Russia (Crimea, Lugansk, Voronezh, Rostov, Volgograd, Penza, Orenburg, Altai and Krasnodar), Ukraine (Odessa, Poltava), Armenia, Azerbaijan, Georgia, Iran, Kazakhstan, Turkey (Kars).

59. *Medetera pallipes* (Zetterstedt, 1843)

Material examined. 7♂, Krasnodar Krai, Krasnodar, Molodezhny public garden, on maple tree, 2:00 p.m. – 3:30 p.m., 06.06.2010, B. Volfov; 5♀, Krasnodar Krai, Krasnodar, Sunny Island Park, on oak and birch trees, 2:00 p.m. – 4:00 p.m., 13.06.2010, B. Volfov.

Distribution. Caucasus: Georgia, Russia (Adygea, Chechnya, Kabardino-Balkaria, Krasnodar, Stavropol). West Palaearctic species.

60. *Medetera parenti* Stackelberg, 1925

Material examined. 1♂, Krasnodar Krai, Krasnodar, Sunny Island Park, on birch tree, 3:00 p.m. – 4:00 p.m., 13.06.2010, B. Volfov.

Distribution. Caucasus: Russia (Karachay-Cherkessia). Trans-Palaearctic species. New for Krasnodar Krai.

61. *Medetera petrophila* Kowarz, 1877

Material examined. 1♂, Adygea, Maikop distr., Caucasian Nature Reserve, Tybga Mt., 2500–2700 m, 31.07.2011, S. Kustov.

Distribution. Caucasus: Russia (Krasnodar, Rostov). West Palaearctic species. New for Adygea.

62. *Medetera truncorum* Meigen, 1824

Material examined. 7♂, 1♀, Krasnodar Krai, Krasnodar, Molodezhny public garden, on maple and Tilia trees, 2:00 p.m. – 3:30 p.m., 06.06.2010, B. Volfov; 1♂, 6♀, Krasnodar Krai, Krasnodar, Sunny Island Park, on birch trees, 3:00 p.m. – 4:00 p.m., 13.06.2010, B. Volfov; 1♂, Krasnodar Krai, Sochi, Adler distr., Achipse River mouth, 43.70° N, 40.27° E, 18.07.2024, I. Grichanov; 2♂, 4♀, Crimea, Bakhchisarai distr., env. of Peschanoye vill., on trees, 31.08.2017, B. Volfov.

Distribution. Caucasus: Azerbaijan, Russia (Chechnya, Krasnodar). Holarctic species.

63. *Micromorphus albipes* (Zetterstedt, 1843)

Material examined. 1♂, Krasnodar Krai, Krasnodar, Sunny Island Park, shore of Lake Staraya Kuban, 1:00 p.m. – 2:00 p.m., 13.06.2010, B. Volfov.

Distribution. Caucasus: Russia (Krasnodar). Trans-Palaearctic species.

64. *Nematoproctus distendens* (Meigen, 1824)

Material examined. 1♂, Krasnodar Krai, Goryachy Klyuch distr., env. of Fanagoriyskoye vill., 08.06.2024, V. Gladun.

Distribution. Caucasus: Russia (Karachay-Cherkessia). Austria, Belgium, Bosnia and Herzegovina, Czechia, France, Germany, Hungary, Italy, Netherlands, Romania, Russia (Leningrad, Mordovia, Voronezh), Serbia, Slovakia, Switzerland, UK, Ukraine (Kharkov). New for Krasnodar Krai.

65. *Nematoproctus praeseclus* Loew, 1869

Material examined. 1♂, Krasnodar Krai, Goryachy Klyuch distr., Fanagoriyskoye vill., Chepsi River, 44.51° N, 39.10° E, 5.07.2024, I. Grichanov.

Distribution. Austria, Belgium, France, Germany, Hungary, Poland, Czechia, Slovakia, ?Slovenia, Yugoslavia, Russia (Bryansk, Kursk, Krasnoyarsk, Leningrad), Ukraine. New for the Caucasus and Krasnodar Krai.

66. *Neurigona erichsoni* (Zetterstedt, 1843)

Material examined. 1♂, Krasnodar Krai, Apsheronsk distr., Kamyshanova Polyana Nature Reserve, 1050 m, 09.07.2009, S. Kustov; 1♂, Krasnodar Krai, env. of Krasnodar, Krasnyi Kut forest park, 44°58'40" N, 39°01'21" E, 22 m, 13.06.2016, V. Gladun; 1♂, Krasnodar Krai, Sochi, Adler distr., env. of Estosadok vill., brook, 43.69° N, 40.23° E, 20.07.2024, I. Grichanov.

Distribution. Caucasus: Russia (Adygea, Alania, Krasnodar). Europe, Turkey, and Iran.

67. *Neurigona pallida* (Fallén, 1823)

Material examined. 1♂, Krasnodar Krai, Goryachy Klyuch distr., env. of Oktyabrsky vill., Mokryi Sepsil River, 29.05.2013, S. Kustov, V. Gladun; 1♂, Krasnodar Krai,

Goryachy Klyuch distr., env. of Oktyabrsky vill., 15.05.2016, S. Kustov; 1♂, Krasnodar Krai, Anapa distr., Utrish Nature Reserve, 2 km E of Bolshoi Utrish vill., Vodopadnaya crevice, 30.05.2014, A. Kozhina.

Distribution. Caucasus: Georgia, Russia (Karachay-Cherkessia, Rostov). Europe from West to South Ural; East Russia (Tomsk, Khanty-Mansi). New for Krasnodar Krai.

68. *Neurigona pseudolongipes* Negrobov, 1987

Material examined. 1♂, Krasnodar Krai, Goryachy Klyuch distr., env. of Oktyabrsky vill., Mokryi Sepsil River, 29.05.2013, S. Kustov, V. Gladun.

Distribution. Caucasus: Abkhazia, Iran, Russia (Krasnodar, Adygea, Karachay-Cherkessia).

69. *Neurigona subcilipes* Negrobov et Fursov, 1988

Material examined. 1♂, Krasnodar Krai, Otradnaya distr., env. of Ilyich khutor, Kuva River, 44°04'12" N, 41°22'27" E, 720 m, 03.06.2018, S. Kustov; 1♂, Adygea, Maikop distr., Caucasian Nature Reserve, Tybga Mt., 1850–2000 m, 31.07.2011, V. Gladun.

Distribution. Caucasus: Russia (Adygea, Krasnodar).

70. *Poecilobothrus annulitarsis* Kazerani, Pollet, Khaghaninia, 2017

Material examined. 1♂, 1♀, Krasnodar Krai, env. of Krasnodar, Krasnyi Kut forest park, 44°58'32" N, 39°01'12" E, 19 m, 22.05.2016, V. Gladun; 1♂, Krasnodar Krai, env. of Krasnodar, Krasnyi Kut forest park, 44°58'40" N, 39°01'21" E, 22 m, 13.06.2016, V. Gladun; 2♀, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, Malyi waterfall, 16.07.2015, V. Gladun.

Distribution. Caucasus: Russia (Karachay-Cherkessia). Iran and Turkey. New for Krasnodar Krai.

Notes. Old records of *Poecilobothrus chrysozygos* Wiedemann, 1817 from the Caucasus and East Mediterranean countries may belong to this species.

71. *Poecilobothrus basilicus* (Loew, 1869)

Material examined. 1♂, 2♀, Krasnodar Krai, Temryuk distr., Sennoi vill., shore of Tamansky Bay, 09.06.2013, S. Kustov.

Distribution. Caucasus: Azerbaijan. Iran, Israel, Italy, Turkey. New for Russia and Krasnodar Krai.

72. *Poecilobothrus caucasicus* (Stackelberg, 1933)

Material examined. 1♀, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, Bolshie glades, 09.07.2013, V. Gladun; 1♂, Krasnodar Krai, Apsheronsk distr., Kamyshanova Polyana Nature Reserve, 28.08.2016, V. Gladun; 1♀, Krasnodar Krai, Apsheronsk distr., Kamyshanova Polyana Nature Reserve, Kurdzhips River, 900 m, 24.06.2013, S. Kustov; 1♀, Krasnodar Krai, Goryachy Klyuch distr., env. of Oktyabrsky vill., 18.05.2014, S. Kustov; 5♂, 1♀, Krasnodar Krai, Sochi distr., Caucasian Nature Reserve, Kardyvach Lake, 1800 m, 01.08.2010, S. Kustov, V. Gladun; 1♂, Krasnodar Krai, Sochi distr., Caucasian Nature Reserve, Kardyvach Lake, 1800 m, 02.08.2010, S. Kustov; 1♂, Krasnodar Krai, Sochi distr., Caucasian Nature Reserve, Mt. Aishkha, 1800–2200 m, 07.08.2004, A. Duka; 3♂, 4♀, Adygea, Maikop distr., Caucasian Nature Reserve, Lago-Naki plateau, snowfield, 1900 m, 18.07.2012, S. Kustov; 2♂, Adygea, Maikop distr., Lago-Naki plateau, Kamennoe More ridge, 25.07.2013, S. Kustov; 1♀, Adygea, Maikop distr., Caucasian Nature Reserve, Tybga Mt., 2020 m, 13.08.2009, V. Gladun; 10♂, 8♀, Adygea, Maikop distr., Caucasian Nature Reserve, Lago-Naki plateau, snowfield, 1900 m, 23.07.2016, V. Gladun; 1♂, Adygea, Maikop distr., Caucasian Nature Reserve, Lago-Naki plateau, meadow, 44°03'04" N, 40°01'33" E, 1881 m, 20.07.2017, V. Gladun; 6♂, 4♀, Adygea, Maikop distr., Uzurub Pass, left side of the Armyanka River valley, 43°59'59,4" N, 39°58'04,5" E, 1852 m, subalpine meadow, snowfield, 04.07.2024, V. Gladun; 8♂, 1♀, Adygea, Maikop distr., Lago-Naki plateau, 44.06° N, 40.02° E, 15.07.2024, I. Grichanov; 5♀, Krasnodar Krai, Sochi distr., Caucasian Nature Reserve, Achipse River upper stream, 43.72° N, 40.14° E, 26.09.2023,

M. Koblova (in ethanol); 1♀, Abkhazia: Sukhum distr., Bzybskii ridge, N-W slope of Mt. Dzyhva, source of the Kot-Kot River, 2100 m, 01.07.2013, D. Zhrebilo; 7♂, 8♀, Karachay-Cherkessia, Teberda env., 1NT, G. Davidyan, 23.07.2021 (in ethanol); 3♀, Karachay-Cherkessia, Teberda env., 4NT, G. Davidyan, 18.07.2021 (in ethanol); 1♂, 1♀, Karachay-Cherkessia, Teberda env., 2NT, G. Davidyan, 24.07.2021 (in ethanol).

Distribution. Caucasus: Abkhazia, Armenia, Georgia, Russia (Adygea, Alania, Chechnya, Kabardino-Balkaria, Karachay-Cherkessia, Krasnodar, Stavropol). Kyrgyzstan, Turkey.

73. *Poecilobothrus principalis* (Loew, 1861)

Material examined. 1♂, Krasnodar Krai, Novorossiysk distr., Dyurso vill., Dyurso River, reed and sedge at banks, 44.682° N, 37.563° E, 6 m, 21–22.07.2017, O. Kosterin (in ethanol).

Distribution. Caucasus: Russia (Adygea, Krasnodar). Austria, Belgium, Bulgaria, Czechia, France, Germany, Hungary, Israel, Italy, Netherlands, Poland, Romania, Spain, Turkey, UK, Ukraine.

74. *Poecilobothrus regalis* (Meigen, 1824)

Material examined. 2♂, Krasnodar Krai, Temryuk distr., shore of Kiziltashsky and Tsokur limans, 07.06.2009, S. Kustov; 3♂, Krasnodar Krai, Temryuk distr., env. of Veselovka vill., 02.06.2013, S. Kustov; 1♂, 1♀, Krasnodar Krai, Temryuk distr., Sennoi vill., shore of Tamansky Bay, 09.06.2013, S. Kustov; 5♂, 4♀, Krasnodar Krai, Dinskaya distr., 10 km N Vasyurinskaya stanitsa, bank of the First Kochety River, 22.05.2013, Nesterenko, V. Gladun; 1♀, Krasnodar Krai, Krasnodar, botanical garden of Kuban State University, 24–27.06.2005; 1♂, Krasnodar Krai, Krasnodar, botanical garden of Kuban State University, 15.06.2010, V. Gladun; 1♀, Krasnodar Krai, Krasnodar, env. of Chistyakovskaya Grove park, 39 m, 24.06.2020, S. Hilova; 1♂, Krasnodar Krai, Krasnodar, Sunny Island Park, shore of Lake Staraya Kuban, 1:00 p.m. – 2:00 p.m., 13.06.2010, B. Volfov; 2♂, Krasnodar Krai, Shcherbinovsky distr., env. of Glafirovka vill., windbreak, 04.06.2010, V. Gladun; 1♂, 1♀, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, 1240 m, 14.07.2016; 2♀, Adygea, Teuchezhsky distr., env. of Dzhidzhihabl aul, 22.05.2012, V. Gladun; 1♀,

Krasnodar Krai, Temryuk distr., Sennoi vill., shore of Tamansky Bay, 09.06.2013, S. Kustov; 4♂, 1♀, Krasnodar Krai, Anapa distr., env. of Supsekh vill., tiny forested brook above Lake Zmeinoye, 44.855° N 37.392° E, 169 m, 24.06.2019, O. Kosterin (in ethanol).

Distribution. Caucasus: Armenia, Azerbaijan, Georgia, Russia (Adygea, Chechnya, Crimea, Kabardino-Balkaria, Krasnodar, Rostov, Stavropol), South Ossetia. West and Central Palaearctic species.

75. *Poecilobothrus varicoloris* (Becker, 1917)

Material examined. 1♂, Krasnodar Krai, Goryachy Klyuch distr., env. of Oktyabrsky vill., Mokryi Sepsil River, 29.05.2013, S. Kustov, V. Gladun; 1♂, Krasnodar Krai, Apsheronsk distr., Kamyshanova Polyana Nature Reserve, 1260 m, 14.07.2016, V. Gladun; 1♂, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, 1150 m, 14.07.2011, M. Babichev; 1♂, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, Mezmai River, 28.09.2012, S. Kustov; 1♂, Krasnodar Krai, Apsheronsk distr., env. of Temnolesskaya stanitsa, broadleaf forest, Mezmai River, 44°10'50" N, 40°03'23" E, 1129 m, 23.07.2019, V. Gladun; 1♂, Krasnodar Krai, Apsheronsk distr., Kamyshanova Polyana Nature Reserve, Gorelaya Balka River, 27.09.2012, S. Kustov; 1♂, Krasnodar Krai, Apsheronsk distr., env. of Nezhnaya cave, 12.07.2011, Babichev; 1♂, Adygea, Maikop distr., env. of Guzeripl vill., Mountain Adygea Nature Park, broadleaf forest, 43°59'41" N, 39°51'20" E, 1537 m, 21.07.2023, V. Gladun; 1♂, 1♀, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, spring, 44.17° N, 40.00° E, 13.07.2024, I. Grichanov; 1♀, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, Mezmai River, 44.20° N, 40.04° E, 14.07.2024, I. Grichanov; 2♂, Krasnodar Krai, Sochi, Adler distr., env. of Estosadok vill., brook, 43.69° N, 40.25° E, 19.07.2024, I. Grichanov; 3♂, Krasnodar Krai, Sochi, Caucasian Nature Reserve, env. of Krasnaya Polyana vill., 43.69° N, 40.18° E, 13.09.2023, M. Koblova (in ethanol); 1♀, Krasnodar Krai, Sochi distr., Caucasian

Nature Reserve, Achipse River upper stream, 43.72° N, 40.14° E, 26.09.2023, M. Koblova (in ethanol); 4♂, 3♀, Krasnodar Krai, Sochi distr., Caucasian Nature Reserve, env. of Krasnaya Polyana vill., 43.69° N, 40.18° E, 13.09.2023, M. Koblova (in ethanol); 1♂, 2♀, Abkhazia, Gagra distr., 17 km SW Ritsa Lake, 43.35° N, 40.41° E, 23.09.2023, M. Koblova (in ethanol).

Distribution. Caucasus: Abkhazia, Armenia, Georgia, Russia (Adygea, Alania, Kabardino-Balkaria, Karachay-Cherkessia, Krasnodar, Stavropol). Turkey.

76. *Rhaphium antennatum* (Carlier, 1835)

Material examined. 1♂, Rostov Oblast, Orlovsky distr., env. of Runnyi vill., Starikova Balka River, 46°30'47", 16° N, 42°57'4", 8° E, 30.04.2013, S. Kustov.

Distribution. Caucasus: Russia (Stavropol). European species. New for Rostov Oblast.

77. *Rhaphium appendiculatum* Zetterstedt, 1849

Material examined. 2♂, Krasnodar Krai, Goryachy Klyuch distr., env. of Oktyabrsky vill., 25.04.2010, S. Kustov; 1♂, Krasnodar Krai, Goryachy Klyuch distr., env. of Oktyabrsky vill., river, 13.05.2012, S. Kustov; 2♂, Krasnodar Krai, Goryachy Klyuch distr., env. of Oktyabrsky vill., 18.05.2014, S. Kustov; 1♂, Krasnodar Krai, Apsheronsk distr., env. of Kamyschanova Polyana biostation, Mezmai River, 28.09.2012, S. Kustov; 1♂, Krasnodar Krai, Apsheronsk distr., env. of Kamyschanova Polyana biostation, Malyi waterfall, 16.07.2015, V. Gladun; 1♂, 1♀, Krasnodar Krai, Goryachy Klyuch distr., Fanagoriyskoye vill., Chepsi River, 44.51° N, 39.10° E, 5.07.6.07.2024, I. Grichanov; 2♀, Krasnodar Krai, Sochi, Adler distr., env. of Estosadok vill., spring, 43.68° N, 40.27° E, 19.07.2024, I. Grichanov; 1♂, Krasnodar Krai, Sochi, Adler distr., env. of Estosadok vill., brook, 43.69° N, 40.23° E, 20.07.2024, I. Grichanov; 1♀, Krasnodar Krai, Sochi, Adler distr., env. of Estosadok vill., spring, 43.68° N, 40.27° E, 21.07.2024, I. Grichanov.

Distribution. Caucasus: Abkhazia, Georgia, Russia (Adygea, Alania, Krasnodar). West Palaearctic species.

78. *Rhaphium caliginosum* Meigen, 1824

Material examined. 8♂, Krasnodar Krai, Krasnodar, Sunny Island Park, shore of Lake Staraya Kuban, 1:00 p.m. – 2:00 p.m., 13.06.2010, B. Volfov; 1♂, Krasnodar Krai, Krasnodar, botanical garden of Kuban State University, 13.04.2013, S. Kustov; 2♂, 4♀, Krasnodar Krai, env. of Krasnodar, Krasnodarsky forest park, 44.99° N, 39.08° E, 17.07.2024, I. Grichanov; 2♂, Krasnodar Krai, Sochi, Khosta distr., Vereshchaginka River, 43.57° N, 39.73° E, 24.09.2023, M. Koblova (in ethanol).

Distribution. Caucasus: Armenia, Azerbaijan, Russia (Adygea, Alania, Chechnya, Kabardino-Balkaria, Karachay-Cherkessia, Krasnodar, Rostov, Stavropol). West Palaearctic species, eastward to Krasnoyarsk.

79. *Rhaphium commune* (Meigen, 1824)

Material examined. 1♂, Krasnodar Krai, Severskaya distr., env. of Stavropolskaya stanitsa, 21.04.2009, V. Gladun.

Distribution. Caucasus: Russia (Adygea, Krasnodar). Holarctic species.

80. *Rhaphium nasutum* (Fallén, 1823)

Material examined. 1♂, Krasnodar Krai, env. of Krasnodar, Krasnyi Kut forest park, 44.98° N, 39.04° E, 17.07.2024, I. Grichanov.

Distribution. Holarctic species. New for the Caucasus and Krasnodar Krai.

81. *Rhaphium riparium* (Meigen, 1824)

Material examined. 1♂, Krasnodar Krai, Goryachy Klyuch distr., env. of Oktyabrsky vill., Mokryi Sepsil River, 29.05.2013, S. Kustov, V. Gladun; 1♂, Krasnodar Krai, Goryachy Klyuch distr., env. of Oktyabrsky vill., 15.05.2016, S. Kustov.

Distribution. Caucasus: Georgia, Russia (Karachay-Cherkessia, Krasnodar). Trans-Palaearctic species.

82. *Sciapus albifrons* (Meigen, 1830)

Material examined. 2♂, Krasnodar Krai, Krasnodar, Molodezhny public garden, in grass, 06.06.2010, B. Volfov; 1♂, Krasnodar Krai, Anapa distr., env. of Blagoveshchenskaya stanitsa, Bugazskaya Spit, 45°04'10" N, 37°03'24" E, 6 m, 07.06.2017, V. Gladun.

Distribution. Caucasus: Russia (Karachay-Cherkessia). Europe, Turkey, Siberia. New for Krasnodar Krai.

83. *Sciapus longulus* (Fallén, 1823)

Material examined. 1♂, Krasnodar Krai, Shcherbinovsky distr., env. of Glafirovka vill., windbreak, 04.06.2010, V. Gladun.

Distribution. Caucasus: Russia (Kabardino-Balkaria, Krasnodar, Rostov). Europe, Kyrgyzstan.

84. *Sciapus polozhentsevi* Negrobov, 1977

Material examined. 1♂, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, Bolshie glades, 09.07.2013, V. Gladun; 1♂, Krasnodar Krai, Goryachy Klyuch distr., env. of Oktyabrsky vill., 18.05.2014, S. Kustov; 2♂, Krasnodar Krai, Goryachy Klyuch distr., env. of Kutais vill., beech-hornbeam forest, 44°30'33" N, 39°18'23" E, 205 m, 04.06.2017, S. Kustov.

Distribution. Caucasus: Russia (Adygea, Krasnodar).

85. *Sybistroma discipes* (Germar, 1821)

Material examined. 1♂, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, Mezmai River, 44.20° N, 40.05° E, 14.07.2024, I. Grichanov.

Distribution. Caucasus: Azerbaijan, Russia (Alania). Europe, Iran, Turkey. New for Krasnodar Krai.

86. *Sybistroma obscurella* (Fallén, 1823)

Material examined. 1♂, Krasnodar Krai, Apsheronsk distr., Kamyshanova Polyana biostation, 13–19.07.2008, V. Gladun; 1♂, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, Malyi waterfall, 11.07.2013, V. Gladun; 1♂, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, Olenya glade, 13.07.2013, V. Gladun; 1♂, Krasnodar Krai, Apsheronsk distr., Kamyshanova Polyana Nature Reserve, 1300 m, 15.07.2016, V. Gladun; 2♂, Krasnodar Krai, Apsheronsk distr., Kamyshanova Polyana Nature Reserve, 1050 m, 09.07.2009, S. Kustov; 1♂, Krasnodar Krai, Apsheronsk distr., Kamyshanova Polyana Nature Reserve, Universitetskii waterfall, 995 m, 09.07.2009, S. Kustov; 1♂, Krasnodar Krai, Apsheronsk distr., env. of Guamka khutor, Kurdzhips River valley, spring, forest, 44°13'28" N, 39°54'15" E, 10.09.2017, V. Gladun; 1♂,

Krasnodar Krai, Apsheronsk distr., env. of Nezhnaya cave, 12.07.2011, M. Babichev; 1♂, 4♀, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, spring, 44.17° N, 40.00° E, 13.07.2024, I. Grichanov; 1♀, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, Mezmai River, 44.20° N, 40.04° E, 14.07.2024, I. Grichanov; 2♀, Krasnodar Krai, Sochi, Adler distr., env. of Estosadok vill., brook, 43.69° N, 40.25° E, 19.07.2024, I. Grichanov; 2♂, Krasnodar Krai, Sochi, Adler distr., env. of Estosadok vill., brook, 43.69° N, 40.23° E, 20.07.2024, I. Grichanov; 1♂, Krasnodar Krai, Sochi distr., Caucasian Nature Reserve, env. of Krasnaya Polyana vill., 43.69° N, 40.18° E, 13.09.2023, M. Koblova (in ethanol); 1♂, Abkhazia, Gudauta distr., Ritsa Relic National Park, Vodopadnaya River, Milk Waterfall, 43.48° N, 40.55° E, 23.09.2023, M. Koblova (in ethanol).

Distribution. Caucasus: Abkhazia, Armenia, Georgia, Russia (Adygea, Krasnodar). Europe and Turkey.

87. *Sybistroma transcaucasica* (Stackelberg, 1941)

Material examined. 1♂, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, 12–14.06.2004, S. Kustov; 1♂, Krasnodar Krai, Severskaya distr., env. of Mirnyi vill., 25.05.2006, S. Kustov; 2♂, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, Malyi waterfall, 16.07.2015, V. Gladun; 1♂, Krasnodar Krai, Goryachy Klyuch distr., env. of Oktyabrsky vill., 18.05.2014, S. Kustov.

Distribution. Caucasus: Abkhazia, Russia (Adygea, Krasnodar). Turkey (Bursa).

88. *Syntormon denticulatus* (Zetterstedt, 1843)

Material examined. 4♂, 1♀, Krasnodar Krai, Goryachy Klyuch distr., Fanagoriyskoye vill., Chepsi River, 44.51° N, 39.10° E, 5.07, 6.07.2024, I. Grichanov; 1♀, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, spring, 44.17° N, 40.00° E, 13.07.2024, I. Grichanov; 8♂, 4♀, Krasnodar Krai, Sochi, Adler distr., env. of Estosadok vill., brook, 43.69° N, 40.25° E, 19.07.2024,

I. Grichanov; 1♂, Krasnodar Krai, Sochi, Adler distr., env. of Estosadok vill., brook, 43.69° N, 40.23° E, 20.07.2024, I. Grichanov; 6♂, 2♀, Krasnodar Krai, Sochi, Adler distr., env. of Estosadok vill., spring, 43.68° N, 40.27° E, 21.07.2024, I. Grichanov; 4♂, 2♀, Krasnodar Krai, Anapa distr., Utrish Nature Reserve, env. of Sukko vill., Sukhoi Liman Lake, 44.753–755° N, 37.455–458° E, 294 m, 23.07.2017, O. Kosterin (in ethanol); 2♂, 1♀, Krasnodar Krai, Novorossiysk distr., Dyurso vill., Dyurso River, reed and sedge at banks, 44.682° N 37.563° E, 6 m, 21–22.07.2017, O. Kosterin (in ethanol).

Distribution. Caucasus: Abkhazia, Armenia, Azerbaijan, Russia (Adygea, Alania, Chechnya, Kabardino-Balkaria, Krasnodar, Stavropol). West and Central Palaearctic species.

89. *Syntormon fuscipes* (von Roser, 1840)

Material examined. 1♂, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, Mezmai River, 44.20° N, 40.04° E, 14.07.2024, I. Grichanov; 1♀, Krasnodar Krai, Sochi, Adler distr., env. of Estosadok vill., brook, 43.69° N, 40.25° E, 19.07.2024, I. Grichanov; 3♂, 2♀, Krasnodar Krai, Sochi, Adler distr., env. of Estosadok vill., spring, 43.68° N, 40.27° E, 21.07.2024, I. Grichanov.

Distribution. Caucasus: Abkhazia, Russia (Krasnodar). Europe and Turkey.

90. *Syntormon metathesis* (Loew, 1850)

Material examined. 1♂, Krasnodar Krai, Krasnodar, Sunny Island Park, shore of Lake Staraya Kuban, by water, 13.06.2010, B. Volfov.

Distribution. Caucasus: Russia (Krasnodar). Europe and Turkey.

91. *Syntormon pallipes* (Fabricius, 1794)

Material examined. 2♂, 1♀, Krasnodar Krai, Krasnodar, Karasunsky public garden, shore of Lake Karasun, 5:00 p.m., 20 °C, 10.10.2008, B. Volfov; 1♀, Krasnodar Krai, Krasnodar, Sunny Island Park, shore of Lake Staraya Kuban, 1:00 p.m. – 2:00 p.m., 13.06.2010, B. Volfov; 3♂, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, Malyi waterfall, 06.09.2014, S. Kustov; 1♂, 1♀, Krasnodar Krai, Apsheronsk distr., Kamyshanova Polyana Nature Reserve,

900–1200 m, 13.06.2014, S. Kustov; 1♂, 1♀, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, 1200 m, 04.06.2011, S. Kustov; 1♂, 2♀, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, Dlinnaya glade, 10.07.2013, V. Gladun; 1♂, Krasnodar Krai, Goryachy Klyuch distr., env. of Oktyabrsky vill., 15.05.2016, S. Kustov; 2♂, Krasnodar Krai, Goryachy Klyuch distr., env. of Oktyabrsky vill., 18.05.2014, S. Kustov; 4♂, Krasnodar Krai, Goryachy Klyuch distr., env. of Oktyabrsky vill., 14.04.2013, S. Kustov; 1♂, Krasnodar Krai, Goryachy Klyuch distr., env. of Oktyabrsky vill., 23.05.2010, S. Kustov; 1♂, Krasnodar Krai, Goryachy Klyuch distr., env. of Oktyabrsky vill., 19.04.2009, S. Kustov; 3♀, Krasnodar Krai, Anapa distr., Utrish Nature Reserve, env. of Sukko vill., Dolgaya Niva area, 07.05.2016, S. Kustov, V. Gladun; 1♂, Krasnodar Krai, Otradnaya distr., env. of Nadezhnaya stanitsa, 44°10'20" N, 41°26'38" E, 800 m, 02.06.2018, S. Kustov; 1♂, Krasnodar Krai, Severskaya distr., env. of Thamaha vill., 03.05.2016, S. Kustov; 1♂, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, fir forest, 23.06.2010, V. Gladun; 3♀, Krasnodar Krai, Sochi distr., env. of Tretya Rota vill., Zapadnyj Dagomys River, 23.04.2013, D. Zhrebilo; 1♀, Krasnodar Krai, Sochi distr., env. of Soloh-Aul vill., Nol Pass, 17.04.2013, D. Zhrebilo; 1♀, Krasnodar Krai, Tuapse distr., Mezetsu ridge, 09.05.2010, S. Nesterenko; 1♂, Krasnodar Krai, Anapa distr., Utrish Nature Reserve, env. of Sukko vill., Sukhoi Liman Lake, 44.753–755° N, 37.455–458° E, 294 m, 23.07.2017, O. Kosterin (in ethanol); 2♂, Krasnodar Krai, Novorossiysk distr., Dyurso vill., Dyurso River, reed and sedge at banks, 44.682° N, 37.563° E, 6 m, 21–22.07.2017, O. Kosterin (in ethanol); 1♂, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, spring, 44.17° N, 40.00° E, 13.07.2024, I. Grichanov; 1♂, Krasnodar Krai, env. of Kamyshanova Polyana biostation, Mezmai River, 44.20° N, 40.05° E, 14.07.2024, I. Grichanov; 1♀, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, Mezmai

River, 44.20° N, 40.04° E, 14.07.2024, I. Grichanov.

Distribution. Caucasus: Abkhazia, Armenia, Azerbaijan, Georgia, Russia (Adygea, Alania, Chechnya, Dagestan, Kabardino-Balkaria, Karachay-Cherkessia, Krasnodar, Rostov). Europe, North Africa, Asia (Afghanistan, Palaearctic and Oriental China, Iran, Iraq, Israel, Jordan, Kyrgyzstan, Tajikistan, Turkey, Uzbekistan).

92. *Syntormon zelleri* (Loew, 1850)

Material examined. 2♂, Krasnodar Krai, Sochi, Adler distr., env. of Krasnaya Polyana vill., 43.67° N, 40.19° E, 16–21.09.2024, M. Yanbulat.

Distribution. Caucasus: Abkhazia, Azerbaijan, Russia (Chechnya, Krasnodar). Europe, Iran, and Turkey.

93. *Tachytrechus genualis* Loew, 1857

Material examined. 2♂, Krasnodar Krai, Goryachy Klyuch distr., Fanagoriyskoye vill., Chepsi River, 44.51° N, 39.10° E, 5.07.2024, I. Grichanov; 1♂, Krasnodar Krai, Tuapse distr., 2 km S Shabanovskii Pass, 44.48° N, 38.77° E, 9.07.2024, I. Grichanov.

Distribution. Caucasus: Armenia, Russia (Adygea, Kabardino-Balkaria, Krasnodar). Europe and Turkey, Siberia, Japan and Taiwan.

94. *Tachytrechus notatus* (Stannius, 1831)

Material examined. 2♂, Krasnodar Krai, Goryachy Klyuch distr., Fanagoriyskoye vill., Chepsi River, 44.51° N, 39.10° E, 5.07.2024, I. Grichanov; 1♀, Krasnodar Krai, Tuapse distr., 2 km S Shabanovskii Pass, 44.48° N, 38.77° E, 9.07.2024, I. Grichanov; 1♂, Krasnodar Krai, Apsheronsk distr., env. of Krasnyi Dagestan khutor, 44.34° N, 39.95° E, 16.07.2024, I. Grichanov; 2♂, 1♀, Sochi, Khosta distr., Bytkha, beach, 43.55° N, 39.76° E, 12.09.2023, M. Koblova (in ethanol); ♂, Russia, Krasnodar Krai, Anapa distr., env. of Malyy Utrish vill., 44.69–72° N, 37.45–52° E, 5–64 m, 23–24.05.2018. O. Kosterin (in ethanol); 1♂, 1♀, Krasnodar Krai, Novorossiysk distr., Dyurso vill., Dyurso River, reed and sedge at banks, 44.682° N, 37.563° E, 6 m, 21–22.07.2017, O. Kosterin (in ethanol); 2♂, Krasnodar Krai,

Sochi, Adler distr., env. of Krasnaya Polyana vill., 43.67° N, 40.19° E, 16–21.09.2024, M. Yanbulat.

Distribution. Caucasus: Abkhazia, Armenia, Russia (Adygea, Chechnya, Crimea, Kabardino-Balkaria, Krasnodar). West and Central Palaearctic species.

95. *Telmaturgus simplicipes* (Becker, 1908)

Material examined. 1♂, 1♀, Krasnodar Krai, Goryachy Klyuch distr., Fanagoriyskoye vill., Chepsi River, 44.51° N, 39.10° E, 6.07.2024, I. Grichanov; 1♂, Krasnodar Krai, Sochi, Adler distr., env. of Estosadok vill., spring, 43.68° N, 40.27° E, 19.07.2024, I. Grichanov; 2♂, Krasnodar Krai, Sochi, Adler distr., env. of Estosadok vill., brook, 43.69° N, 40.23° E, 20.07.2024, I. Grichanov; 1♂, Krasnodar Krai, Sochi, Adler distr., Railway Station Roza Khutor, spring, 43.67° N, 40.29° E, 21.07.2024, I. Grichanov; 2♀, Krasnodar Krai, Gelendzhik distr., env. of Arkhipo-Osipovka vill., 44.356–365 N, 38.536–539° E, 13–266° m, 27.05.2018. O. Kosterin (in ethanol); 1♀, Russia, Krasnodar Krai, Anapa distr., env. of Malyy Utrish vill., 44.69–72° N, 37.45–52° E, 5–64 m, 23–24.05.2018, O. Kosterin (in ethanol).

Distribution. Caucasus: Abkhazia, Azerbaijan, Russia (Adygea, Krasnodar). Southern Palaearctic, Afrotropical, Oriental, and Australasian species.

Notes. This species was reported previously as *Sympycnus simplicipes* Becker, 1908.

96. *Teuchophorus calcaratus* (Macquart, 1827)

Material examined. 35♂, Krasnodar Krai, Goryachy Klyuch distr., Fanagoriyskoye vill., Chepsi River, 44.51° N, 39.10° E, 5, 6, 7.07.2024, I. Grichanov; 2♂, Krasnodar Krai, Tuapse distr., 2 km S Shabanovskii Pass, 44.48° N, 38.77° E, 9.07.2024, I. Grichanov; 2♂, Krasnodar Krai, Apsheronsk distr., env. of Kamyschanova Polyana biostation, Mezmai River, 44.20° N, 40.04° E, 14.07.2024, I. Grichanov.

Distribution. Caucasus: Azerbaijan, Georgia, Russia (Adygea, Alania, Kabardino-Balkaria, Krasnodar). Mainly West-Palaearctic species.

97. *Teuchophorus monacanthus* Loew, 1859

Material examined. 1♂, Krasnodar Krai, env. of Krasnodar, Krasnyi Kut forest park, 44°58'32" N, 39°01'12" E, 19 m, 22.05.2016, V. Gladun; 1♂, Krasnodar Krai, Tuapse distr., 2 km S Shabanovskii Pass, 44.48° N, 38.77° E, 9.07.2024, I. Grichanov.

Distribution. Caucasus: Abkhazia, Armenia, Azerbaijan, Georgia, Russia (Adygea, Chechnya, Kabardino-Balkaria, Krasnodar, Stavropol). West Palaearctic species.

98. *Teuchophorus spinigerellus* (Zetterstedt, 1843)

Material examined. 9♂, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, Mezmai River, 44.20° N, 40.04° E, 14.07.2024, I. Grichanov; 2♂, Krasnodar Krai, Sochi, Adler distr., env. of Estosadok vill., brook, 43.69° N, 40.23° E, 20.07.2024, I. Grichanov.

Distribution. Caucasus: Abkhazia, Azerbaijan, Russia (Adygea, Kabardino-Balkaria, Krasnodar, Stavropol). West and Central Palaearctic species.

99. *Thrypticus bellus* Loew, 1869

Material examined. 1♂, 1♀, Krasnodar Krai, Novorossiysk distr., Dyurso vill., Dyurso River, reed and sedge at banks, 44.682° N, 37.563° E, 6 m, 21–22.07.2017, O. Kosterin (in ethanol).

Distribution. Caucasus: Abkhazia, Armenia, Azerbaijan, Russia (Rostov). Palaearctic and Afrotropical Regions. New for Krasnodar Krai.

100. *Thrypticus smaragdinus* Gerstaecker, 1864

Material examined. 1♂, Krasnodar Krai, Temryuk distr., Sennoi vill., shore of Tamansky Bay, 09.06.2013, S. Kustov.

Distribution. Caucasus: Russia (Krasnodar, Rostov, Stavropol). Europe and Israel.

101. *Xanthochlorus fulvus* Negrobov, 1978

Material examined. 1♀, Krasnodar Krai, Apsheronsk distr., Kamyshanova Polyana biostation, brook, 1240 m, 07.07.2009, V. Gladun; 7♂, 4♀, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova

Polyana biostation, in blackberry thickets and fir forest, 23.06.2010, V. Gladun; 1♂, 1♀, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, Dlinnaya glade, 10.07.2013, V. Gladun; 1♀, Krasnodar Krai, Apsheronsk distr., env. of Kamyshanova Polyana biostation, Malyi waterfall, 17.07.2015, V. Gladun; 1♀, Krasnodar Krai, Apsheronsk distr., Kamyshanova Polyana biostation, 25.07.2009, S. Kustov; 1♀, Krasnodar Krai, Apsheronsk distr., Kamyshanova Polyana Nature Reserve, 900–1200 m, 13.06.2014, S. Kustov.

Distribution. Caucasus: Russia (Adygea, Alania, Chechnya, Kabardino-Balkaria, Krasnodar).

102. *Xanthochlorus luridus* Negrobov, 1978

Material examined. 1♂, Krasnodar Krai, Apsheronsk distr., env. of Azishskaya cave, 1500 m, 24.06.2013, S. Kustov; 1♀, Krasnodar Krai, Sochi, Adler distr., env. of Krasnaya Polyana vill., 43.67° N, 40.19° E, 16–21.09.2024, M. Yanbulat.

Distribution. Caucasus: Abkhazia, Russia (Adygea, Alania, Kabardino-Balkaria, Karachay-Cherkessia, Krasnodar).

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