

New records of Cylloceriinae, Microleptinae, Orthocentrinae and Oxytorinae species (Hymenoptera: Ichneumonidae) in the fauna of Russia

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Новые находки видов подсемейств Cylloceriinae, Microleptinae, Orthocentrinae и Oxytorinae (Hymenoptera: Ichneumonidae) в фауне России

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Abstract. As a result of the treatment of Zoological Institute RAS collections and own author's collections, an annotated species list of 75 ichneumon wasps from subfamilies Cylloceriinae, Microleptinae, Orthocentrinae and Oxytorinae was provided. Of those species, 18 have not been previously recorded on the territory of Russia, four species are listed for the first time for the European part of Russia, four species are new to the Eastern Palaearctic, and the rest are new regional findings. The generic name *Atabulus* Rossem, 1988 is synonymised with *Plectiscidea* Viereck, 1914 (*syn. nov.*). A new combination is given: *Plectiscidea (P.) faustus* (Rossem, 1988), **comb. nov.**

Key words. Hymenoptera, ichneumonid wasps, Russia, fauna, new records, species list.

Резюме. По результатам обработки коллекций Зоологического института РАН и собственных сборов автора приводится аннотированный список видов 75 наездников-ихневмонид из подсемейств Cylloceriinae, Microleptinae, Orthocentrinae и Oxytorinae. Из них 18 видов впервые приводятся для фауны России, 4 вида являются новыми для фауны европейской части России, 4 вида – впервые обнаружены в Восточной Палеарктике, остальные являются новыми региональными находками. Родовое название *Atabulus* Rossem, 1988 сведено в синонимы к *Plectiscidea* Viereck, 1914 (*syn. nov.*). Дано новая комбинация *Plectiscidea (P.) faustus* (Rossem, 1988), **comb. nov.**.

Ключевые слова. Hymenoptera, наездники-ихневмониды, Россия, фауна, новые находки, список видов.

Introduction

For a long time, three subfamilies presented here (Cylloceriinae, Microleptinae and Oxytorinae) were considered together within Microleptinae (Townes, 1971), while Orthocentrinae was established as a separate subfamily by Foerster (1869). The current concept of Orthocentrinae includes most of the genera comprising Townes's Orthocentrinae and Microleptinae, whereas subfamilies Cylloceriinae, Microleptinae and Oxytorinae are considered separately. These groups of ichneumonids studied insufficiently on the territory

of Russia. The main old data on their distribution there are presented in the works of Meyer (1934, 1936a, 1936b, 1936c). Since 1990-s these subfamilies are studied in Russia by author; the results were published partly in the series of articles (Humala, 1997, 2002, 2004, 2008, 2010, Humala et al., 2007, Humala, Polevoi, 2009, 2012, 2015, Polevoi, Humala, 2011, Jakovlev et al., 2014, etc.). These studies also resulted in monograph (Humala, 2003), and farther results of the ZIN collections treatment were included in the Key to the insects of the Russian Far East (Humala, 2007a, 2007b) and the Annotated Catalogue of the insects of the Russian Far East (Kasparyan et al., 2012). However, the fauna of these four subfamilies of ichneumonids in Russia is still inadequately studied, taking into account its huge territory, and requires much more attention in the future.

Materials and methods

For the present research collections stored in the Zoological Institute RAS (St Petersburg) were treated. Additional materials were obtained by the author during long-term entomological studies conducted by the Forest Research Institute KarRC RAS in Karelia and some adjacent territories of Murmansk Province ("Pasvik" and Laplandskiy Nature Reserves). All materials used for the present study are stored in the collections of the Zoological Institute RAS and Forest Research Institute KarRC RAS (Petrozavodsk) with few exceptions.

Notes of abbreviated names of biogeographical provinces of East Fennoscandia, where the territories of Karelia, Murmansk Province and part of Leningradskaya Province included, are given according to Heikinheimo and Raatikainen (1971) with additions by Kravchenko and Kuznetsov (2001). The Latin names of ichneumon wasps are given in alphabetic order according to the recent version of World Ichneumonoidea Catalogue (Taxapad: Yu et al., 2016) as well as distribution data. Following abbreviations are used in the text: EP – European part of Russia, MT – Malaise trap, WT – window trap, YPT – yellow pan trap, ZMHU – Zoological Museum of Helsinki University, ZMSC – Zoologische Staatssammlung München.

New species for Russia are marked with an asterisk (*); new species for the European part of Russia (EP) are marked with a plus (+); new species for the Eastern Palaearctic are marked with a hash (#).

Results

Subfamily Cylloceriinae

Cylloceria borealis (Roman, 1925)

Material examined. RUSSIA. Yamal-Nenets Autonomous Area: 95 km SE of Ratta, close to the mouth of Dyndovsky, Taz River, 63.136° N, 85.508°, 28.VII.1992, 1 female (D. Kasparyan leg.).

Cylloceria melancholica (Gravenhorst, 1820)

Material examined. RUSSIA. Novosibirsk Province: 50 km E of Iskitim, Yurmanka, 54.59° N, 84.09° E, 6.VIII.2017, 1 male (A. Humala leg.).

Rossemia longithorax Humala, 1997

Material examined. RUSSIA. Leningradskaya Province: 55 km S of St Petersburg, 3 km W of Krasnitsy, aspen forest, MT, 11–18.VII.2010, 1 female (D. Kasparyan leg.). GERMANY. Bayern, Lkr. GAP Grafenaschau, Im Gsott, Davallseggenried, 679 m, MT, 30.VI–14.VII.2013, 1 female (Doczkal leg.) (ZMSC).

Subfamily Microleptinae

Microleptes splendidulus Gravenhorst, 1829

Material examined. RUSSIA. Sverdlovskaya Province: Nizhny Tagil env., Chernostochinsk, sport base, 7.VIII.1970, 1 male (E. Potapova leg.).

Remarks. Earlier this species with Holarctic distribution was reported in EP from Karelia (Humala, Polevoi, 2015).

Subfamily Orthocentrinae

Tribe Helictini

Aniseres pallipes Foerster, 1871

Material examined. RUSSIA. Novosibirsk Province: 50 km E of Iskitim, Yurmanka, 54.59° N, 84.09° E, 6.VIII.2017, 2 females (A. Humala leg.). Republic of Sakha (Yakutia): Zhigansk, floodplain, 15.VII.1990, 1 female (D. Kasparyan leg.).

Aperileptus albipalpus (Gravenhorst, 1829)

Material examined. RUSSIA. Tver Province: Udomelsky District, 12–26.IX.2013 (Korobkov leg.). Krasnoyarsk Territory: Akademgorodok, birch forest, 28.VII.1988, 1 female (D. Kasparyan leg.).

Aperileptus infuscatus Foerster, 1871

Material examined. RUSSIA. Leningradskaya Province: 55 km S of St Petersburg, Krasnitsy 4 km W, aspen forest, MT, 12–21.VIII.2010, 1 female (D. Kasparyan leg.). Krasnoyarsk Territory: Akademgorodok, birch forest, 28.VII.1988, 1 female (D. Kasparyan leg.). Republic of Sakha (Yakutia): Zhigansk, larch taiga, 16.VII.1990, 1 female (D. Kasparyan leg.).

Aperileptus obscurus Humala, 2007

Material examined. RUSSIA. Republic of Karelia: Kol, 5 km NE of Lososinnoe, YPT, 9–12.VII.2012, 1 female (A. Humala leg.); Kroc, Muarlampi L., YPT, 25.VI–8.VII.2009, 1 male (Polevoi leg.); Kk, 2 km SW of Gridino, MT, 4.VII–9.VIII.2007, 1 female (A. Humala leg.); Kp, Pudozh District, 3 km SE of Prirechnyi, MT, 24.VI–13.VIII.2009, 1 male (A. Humala leg.). Yamal-Nenets Autonomous Area: Taz River, 40 km ESE of Ratta, 3.VIII.1992, 1 female (D. Kasparyan leg.); Taz River, 100 km SE of Ratta, 23.VII.1992, 1 female (D. Kasparyan leg.). CZECHIA. Bohemia South, Šumava Mts., Boubinský Prales Nature Reserve, light trap, 15–18.VIII.2006, 1 male (Jaroš and Spitzer leg.).

Aperileptus rossemi Jussila, 1994

Material examined. RUSSIA. Leningradskaya Province: Nizhnesvirsky Nature Reserve, Gumbaritsy surr., 31.VII.1994, 1 female (A. Humala leg.). Primorskiy Territory: Lazo District, SW slope of Sestra Mt., upper stream of Lukyanov Log, 25.VI.2008, 1 female (Yu. Sundukov leg.).

Aperileptus vanus Foerster, 1781

Material examined. RUSSIA. Tver Province: Udomelskiy District, 27.IX–16.X.2013, 1 male (Korobkov leg.). Chukotka Autonomous Area: 40 km SSW of Beringiyskiy, YPT, 14.VII.2012, 1 male (A. Stekolshchikov leg.).

Catastenus femoralis Foerster, 1871

Material examined. RUSSIA. Sakhalin Province: Sakhalin I., near Kholmsk Pass, 2.VII.1973, 1 male (D. Kasparyan leg.).

Dialipsis exilis Foerster, 1871

Material examined. RUSSIA. Nizhegorodskaya Province: biological station “Pustyn”, 29.VII.2015, 1 female (S. Belokobylskij leg.). Saratov Province: Saratov, 8.VI (M. Katkov leg.). Sverdlovskaya Province: Nizhny Tagil env., 24–26.VII.1971, 2 females (Sorokina leg.). Altai Territory: SE of Biysk, mixed forest, 6.VII.2007, 2 females, 1 male (A. Khalaim leg.); 8 km S of Biysk, Ust’-Katun’, pine forest, 7–8.VII.2007, 1 female (A. Khalaim leg.).

Entypoma robustum Foerster, 1871

Material examined: RUSSIA. Murmansk Province: Lim, Laplandskiy Nature Reserve, 4 km SE of Chunozero, pine forest, MT, 23.VI–28.VII.2014, 1 female (A. Humala leg.). Krasnodar Territory: Sochi, Lazarevskoe, forest, 5.IX.1981, 1 male (V. Tobias leg.). Zabaikalskiy Territory: Adrianovka, birch forest, 2.VIII.1975, 1 male (D. Kasparyan leg.). Khabarovsk Territory: Khekhtsir Mts, Levaya River, mixed forest, 28.VII.1983, 1 female (D. Kasparyan leg.). AZERBAIJAN. Zakatal’skiy Nature Reserve, Richuk Mt., oak and beech forest, 25.VIII.1982, 1 female (R. Dbar leg.).

Eusterinx (Eusterinx) argutula Foerster, 1871

Material examined. RUSSIA. Leningradskaya Province: Ik, Terijoki [=Zelenogorsk], 11.VII.1927, 1 male (W. Hellén leg.) (ZMHU); 2 km N of Pushkin, forest, 30.VII.1972, 3 males (D. Kasparyan leg.). Yamal-Nenets Autonomous Area: Krasnoselkup, forest, 11.VIII.1992, 2 females, 1 male (D. Kasparyan leg.). Altai Territory: 8 km S of Biysk, Ust’-Katun’, pine forest, 7–8.VII.2007, 1 female (A. Khalaim leg.).

***Eusterinx (Eusterinx) oligomera* Foerster, 1871**

Material examined. RUSSIA. Leningradskaya Province: 75 km N of St Petersburg, Sosnovo, MT, 11–17.VII.2009, 1 female (D. Kasparyan leg.). Yamal-Nenets Autonomous Area: Taz River, 20 km upstream of Ratta, 6.VIII.1992, 1 female (D. Kasparyan leg.). Altai Territory: 8 km S of Biysk, Ust'-Katun', pine forest, 7–8.VII.2007, 1 female (A. Khalaim leg.).

***Eusterinx (Eusterinx) subdola* Foerster, 1871**

Material examined. RUSSIA. Republic of Crimea: Verkhnyaya Kutuzovka, 26.VI.1978, 1 male (D. Kasparyan leg.).

***Eusterinx (Holomeristus) tenuicincta* (Foerster, 1871)**

Material examined. RUSSIA. Sverdlovskaya Province: Nizhny Tagil env., 1.VIII.1971, 1 female (E. Potapova leg.).

***Eusterinx (Ischyrracis) bispinosa* (Strobl, 1901)**

Material examined. RUSSIA. Leningradskaya Province: 55 km S of St Petersburg, 4 km W of Krasnitsy, aspen forest, MT, 11–18.VII.2010, 1 female (D. Kasparyan leg.).

***Eusterinx (Trestis) trichops* (Thomson, 1888)**

Material examined. RUSSIA. Chukotka Autonomous Area: 40 km SSW of Beringiyskiy, YPT, 6.VII.2012, 14–19.VII.2012, 5 females (A. Stekolshchikov leg.). MONGOLIA. Ara-Khangai Aymag: 48 km S of Tevshrulekh, 2–3.VII.1975, 1 female, 1 male (M. Kozlov leg.).

***Eusterinx (Trestis) trifasciata* (Ashmead, 1899)**

Material examined. RUSSIA. Murmansk Province: Lps, "Pasvik" Nature Reserve, Varlam I., 1 km SE, pine forest, MT, 10.VII–3.VIII.2007, 2 females (A. Humala leg.). Republic of Karelia: Kp, Pudozh District, 3 km SE of Prirechnyi, MT, 24.VI–13.VIII.2009, 1 female (A. Humala leg.). Krasnoyarsk Territory: SW Taimyr Peninsula, 85 km N of Norilsk, Ladan-nakh Lake, alder forest, pitfall trap, 4–15.VII.1999, 1 female (O. Makarova leg.).

***Helictes erythrostoma* (Gmelin, 1790)**

Material examined. RUSSIA. Krasnodar Territory: Sochi, Lazarevskoe, forest along stream, 24.IX.1988, 3 males (A. Humala leg.). Novosibirsk Province: 50 km E of Iskitim, Yurmanka, 54.59° N, 84.09° E, 6.VIII.2017, 1 male (A. Humala leg.).

***Megastylus (Megastylus) cruentator* Schiødte, 1838**

Material examined. JAPAN. Honshu I., Ibaraki Pref., 15 km NW of Kitabaraki, 28.VIII.1999, 1 female, 1 male (S. Belokobylskij leg.).

***Megastylus (Megastylus) flavopictus* (Gravenhorst, 1829)**

Material examined. RUSSIA. Kaliningrad Province: Curonian Spit (Kurshskaya kosa), 30th km, 23.VII.1990, 1 male (A. Manukyan leg.). Belgorod Province: "Les na Vorskle" Nature Reserve, Borisovka, 20.VI.2008, 1 female (D. Kasparyan leg.).

***Megastylus (Megastylus) orbitator* Schiødte, 1838**

Material examined. RUSSIA. Altai Territory: SE of Biysk, mixed forest, 6.VII.2007, 1 female (A. Khalaim leg.). MONGOLIA. Eastern Aymag: Khalkhin-Gol R., 33 km SE of somon Khalkh-Gol, 19.VII.1971, 1 female (M. Kozlov leg.).

***Megastylus (Dicolus) pectoralis* (Foerster, 1871)**

Material examined: MONGOLIA. Ara-Khangai Aymag: 48 km S of Tevshrulekh, 2–3.VII.1975, 4 females, 1 male (M. Kozlov leg.).

****Plectiscidea (Plectiscidea) capitosa* (Roman, 1909)**

Material examined. RUSSIA. Murmansk Province: Lps, "Pasvik" Nature Reserve, Varlam I., birch forest, 29.VII.2008, 1 female; Varlam I., 1 km SE, pine forest, MT, 10.VII–3.VIII.2007, 1 female (All A. Humala leg.); Komi Republic: Seida, 70 km SW of Vorkuta, 11 & 13.VII.1972, 2 females (D. Kasparyan leg.).

***Plectiscidea (P.) collaris* (Gravenhorst, 1829)**

Material examined. RUSSIA. Karachai-Cherkess Republic: Teberda Nature Reserve, M. Khatipara Mt., 2500 m, VII.1982, 1 female (R. Dbar leg.). Sverdlovskaya Province: Nizhny Tagil env., 2.VIII.1971, 1 female (Rubleva leg.). Yamal-Nenets Autonomous Area: Taz River, 75 km E of Ratta, 5.VIII.1992, 1 female (D. Kasparyan leg.); Ob' River, 8 km downstream

of Labytnangi, forest, 13.VII.1994, 1 female (D. Kasparyan leg.). *Altai Territory*: 8 km S of Biysk, Ust'-Katun', pine forest, 7–8.VII.2007, 1 female (A. Khalaim leg.). *Krasnoyarsk Territory*: Turukhansk, birch forest, 13.VII.1988, 1 female (D. Kasparyan leg.).

***Plectiscidea (P.) crassicornis* (Foerster, 1871)**

Material examined. RUSSIA. *Republic of Karelia*: *Kp*, Pudozh District, 3 km SE of Priechnyi, MT, 24.VI–13.VIII.2009, 1 female (A. Humala leg.). *Republic of Tatarstan*: Volzhsko-Kamsky Nature Reserve, 25 km W of Kazan, 13.IX.1975, 1 female (Khalidov leg.). *Yamal-Nenets Autonomous Area*: Taz River, 75 km E of Ratta, 5.VIII.1992, 1 female (D. Kasparyan leg.). MONGOLIA. *Central Aymag*: N slope of Bogdoul near Ulan-Bator, 22.VI.1967, 1 male (I. Kerzhner leg.).

***Plectiscidea (P.) faustus* (Rossem, 1988), comb. nov.**

Atabulus faustus Rossem, 1988.

Material examined. Holotype, 1 female. RUSSIA. *Yaroslavl Province*: Yaroslavl, 7–15.V.1895 (N. Kokujev leg.).

Remarks. This species was included by van Rossem in described new genus *Atabulus* (Rossem, 1988), although there are no differences allowing to separate it from *Plectiscidea* Viereck: the prepectal carina developed and upcurved ovipositor also could be found in some *Plectiscidea* species. So far, *Atabulus* Rossem, 1988 is a junior synonym of *Plectiscidea* Viereck, 1914 (*syn. nov.*).

***Plectiscidea (P.) posticata* (Foerster, 1871)**

Material examined. RUSSIA. *Leningradskaya Province*: 75 km N of St Petersburg, Sosnovo, MT, 26.VIII–1.IX.2009 & 2–8.IX.2009, 3 females (D. Kasparyan leg.).

***Plectiscidea (P.) undulata* Dasch, 1992**

Material examined. RUSSIA. *Kabardino-Balkaria Republic*: Terskol, S slope of Elbrus Mt., 2400 m, 16.VI.1972, 1 female (D. Kasparyan leg.). *Yamal-Nenets Autonomous Area*: Muzhi, 26.VIII.1972, 1 female (D. Kasparyan leg.).

***Plectiscidea (P.) zonata* (Gravenhorst, 1829)**

Material examined. RUSSIA. *Stavropol Territory*: Essentuki, Podkumok River, 3.X.1972, 1 male (W. Kuslitsky leg.). *Altai Territory*: 8 km S of Biysk, Ust'-Katun', pine forest, 7–8.VII.2007, 1 female (A. Khalaim leg.).

***Proclitus ardantis* Rossem, 1987**

Material examined. RUSSIA. *Yaroslavl Province*: Gedenovo, 16.VII.1916, 1 female (A. Shestakov leg.). *Republic of Sakha (Yakutia)*: 10 km SSW of Yakutsk, Rechevaya school, 2.VIII.1990, 1 female (D. Kasparyan leg.); Zhigansk, floodplain, 16.VII.1990, 1 female (D. Kasparyan leg.).

***Proclitus comes* (Haliday, 1838)**

Material examined. RUSSIA. *Republic of Sakha (Yakutia)*: Zhigansk, larch taiga, 16.VII.1990, 2 females (D. Kasparyan leg.). KYRGYZSTAN. Sary-Chelek Nature Reserve, Arkit, 1200 m, 24.VI.1979, 1 female (D. Kasparyan leg.).

***Proclitus fulvicornis* Foerster, 1871**

Material examined. RUSSIA. *Krasnodar Territory*: Sochi, Lazarevskoe, terraced slopes, 17, 20.IX.1975, 3 females (D. Kasparyan leg.); Sochi, Lazarevskoe, forest along stream, 16.IX.1988, 1 male (A. Humala leg.). *Karachai-Cherkess Republic*: Teberda Nature Reserve, Arkhyz, 2 & 5.VII.1976, 2 males (D. Kasparyan leg.).

***Proclitus fulvipectus* Foerster, 1871**

Material examined. RUSSIA. *Leningradskaya Province*: 55 km S of St Petersburg, Krasnitsy, 4.IX.1987, 2 females (D. Kasparyan leg.). *Republic of Crimea*: Nature Reserve Asport, floodplain of Alma River, 30.VI.1978, 1 male (D. Kasparyan leg.).

+*Proclitus heterocerus* (Thomson, 1888)

Material examined. RUSSIA. *Republic of Karelia*: *Kp*, Pudozh District, 3 km SE of Priechnyi, MT, 24.VI–13.VIII.2009, 1 female (A. Humala leg.).

***Proclitus paganus* (Haliday, 1838)**

Material examined. RUSSIA. *Primorskiy Territory*: Lazo District, SW slope of Sestra Mt., upper stream of Lukyanov Log, 25.VI.2008, 1 female (Yu. Sundukov leg.).

***Proclitus praetor* (Haliday, 1838)**

Material examined. RUSSIA. Altai Territory: Barnaul, pine forest, 8.VIII.2007, 1 female (A. Khalaim leg.). Republic of Sakha (Yakutia): 10 km SSW of Yakutsk, Mytakh River, forest, 3.VIII.1990, 1 female (D. Kasparyan leg.).

***Proeliator proprius* Rossem, 1982**

Material examined. RUSSIA. Yaroslavl Province: Gedenovo, 5.IX.1918, 1 male (A. Shestakov leg.);

+*Symplicis carinulata* Dasch, 1992

Material examined. RUSSIA. Murmansk Province: Lps, "Pasvik" Nature Reserve, Varlam I., 1 km SE, pine forest, MT, 3.VIII–10.X.2007, 2 females (A. Humala leg.).

+*Symplicis clipeator* (Lundbeck, 1897)

Material examined. RUSSIA. Murmansk Province: Lps, "Pasvik" Nature Reserve, Varlam I.. 1 km SE, pine forest, MT, 6.VI–10.VII.2007, 2 females, 2 males (A. Humala leg.). Krasnoyarsk Territory: SW Taimyr Peninsula, 85 km N of Norilsk, Ladannakh Lake, pitfall trap, 6–14.VII.1999, 1 male (O. Makarova leg.). AUSTRIA. Zederhaus, Lungau, 2100 m, 25–27.VII.1969, 1 male (E. Haeselbarth leg.) (ZSMC).

***Symplicis leucostoma* (Foerster, 1871)**

Material examined. RUSSIA. Leningradskaya Province: 75 km N of St Petersburg, Sosnovo, MT, 13–19.VIII.2009, 1 female (D. Kasparyan leg.); 44 km S of St Petersburg, Kobralovo-Semrino, 21.V.1983, 1 female (D. Kasparyan leg.).

Tribe Orthocentrini

***Batakamacrus subarcticus* Humala, 2010**

Material examined. RUSSIA. Leningradskaya Province: 75 km N of St Petersburg, Sosnovo, MT, 18–24.VII.2009, 1 female (D. Kasparyan leg.).

****Neurateles compressus* (Thomson, 1897)**

Material examined. RUSSIA. Murmansk Province: Lps, "Pasvik" Nature Reserve, Varlam I., 1 km SE, MT, 10.VII–3.VIII.2007, 1 female (A. Humala leg.); Lim, Laplandskiy Nature Reserve, 5 km W of Chunozero, spruce forest, MT, 28.V–20.IX.2014, 1 female (A. Humala leg.). Leningradskaya Province: Sosnovo, 75 km N of St Petersburg, MT, 27.VI–3.VII.2009, 1 female (D. Kasparyan leg.).

****Neurateles papyraceus* Ratzeburg, 1848**

Material examined. RUSSIA. Murmansk Province: Lps, "Pasvik" Nature Reserve, Varlam I., 1 km SE, pine forest, MT, 6.VI–10.VII.2007, 10 females (A. Humala leg.); Lim, Laplandskiy Nature Reserve, 2 km NE of Pusozero, MT, 20.VI–18.VII.2017, 1 female (A. Humala leg.).

***Orthocentrus asper* (Gravenhorst, 1829)**

Material examined. RUSSIA. Murmansk Province: Lps, "Pasvik" Nature Reserve, Varlam I., 1 km SE, pine forest, MT, 3.VIII–10.X.2007, 1 female and 1 male (A. Humala leg.); Lim, Laplandskiy Nature Reserve, 4 km SE of Chunozero, pine forest, MT, 26.VIII–21.IX.2014, 3 females (A. Humala leg.). Republic of Karelia: Vottovaara Mt., spruce forest, MT, 17.VI–17.VII.2008, 1 female (A. Humala leg.); Kl, Keljosaari I., 13.VI.2016, 1 male (A. Humala leg.); Kon, Unitsa River, mixed forest, 11.VIII.2018, 2 males (A. Humala leg.). Leningradskaya Province: 55 km S of St Petersburg, 4 km W of Krasnitsy, aspen forest, MT, 12–20.VII.2014, 1 female (D. Kasparyan leg.); 75 km N of St Petersburg, Sosnovo, MT, 29.VII–4.VIII.2009, 1 female (D. Kasparyan leg.). Astrakhan Province: Kharabali, floodplain forest, meadow, 18 & 20.VI.2004, 1 female (S. Belokobylskij leg.).

***Orthocentrus attenuatus* Holmgren, 1858**

Material examined. RUSSIA. Murmansk Province: Lps, "Pasvik" Nature Reserve, Varlam I., 1 km SE, pine forest, MT, 3.VIII–10.X.2007, 1 female (A. Humala leg.). Leningradskaya Province: 75 km N of St Petersburg, Sosnovo, MT, 25–28.VII.2009, 1 female (D. Kasparyan leg.).

***Orthocentrus frontator* (Zetterstedt, 1838)**

Material examined. RUSSIA. Murmansk Province: Lps, "Pasvik" Nature Reserve, Varlam I., 1 km SE, MT, 3.VIII–10.X.2007, 4 females (A. Humala leg.); Republic of Karelia: Kk, 2 km SW of Gridino, MT, 4.VII–9.VIII.2007, 1 female (A. Humala leg.).

***Orthocentrus fulvipes* Gravenhorst, 1829**

Material examined. RUSSIA. Leningradskaya Province: St Petersburg, 4.X.1917, 1 female (G. Jacobson leg.); St Petersburg suburbs, Mozhaiskoe, Dudergof Hills, forest, meadow, 13.VII.2005, 1 female (S. Belokobylskij leg.). Republic of Crimea: Karadag, Karagach Ridge, 7.V.1992, 1 female (D. Kasparyan leg.). Evreyskaya Autonomous Province: Radde, Malyi Khinchan Mts, forest along Amur River, 14.VII.2003, 1 female (S. Belokobylskij leg.). MONGOLIA. Central Aymag: N slope of Bogdoul near Ulan-Bator, 14.VII.1967, 1 male (V. Zaitsev leg.).

****Orthocentrus hirsutor* Aubert, 1969**

Material examined. RUSSIA. Republic of Karelia: Kon, Belaya Gora, pine forest, 16.VII.2002, 1 female (A. Humala leg.). Primorskiy Territory: Vladivostok, Russkiy I., 42.973° N, 131.888° E, 8.IX.2019, 1 female (E. Gorovaya leg.).

****Orthocentrus longicornis* Holmgren, 1858**

Material examined. RUSSIA. Murmansk Province: Lim, Laplandskiy Nature Reserve, 5 km W of Chunozero, spruce forest, MT, 28.V–20.IX.2014, 1 female (A. Humala leg.). Republic of Karelia: Kl, Valaam I., spruce forest, MT, 27.VII–2.VIII.2009, 1 female (A. Polevoi leg.); Kl, Ohvansaari I., 17.VII.2018, 1 male (A. Humala leg.).

+*Orthocentrus marginatus* Holmgren, 1858

Material examined. RUSSIA. Republic of Karelia: Kk, 2 km SW of Gridino, MT, 4.VII–9.VIII.2007, 1 female; Kon, Vottovaara Mt., spruce forest, MT, 17.VI–17.VII.2008, 1 female (all A. Humala leg.).

****Orthocentrus monilicornis* Holmgren, 1858**

Material examined. RUSSIA. Republic of Karelia: Kk, 2 km SW of Gridino, MT, 4.VII–9.VIII.2007, 1 female (A. Humala leg.).

****Orthocentrus orbitator* Aubert, 1963**

Material examined. RUSSIA. Republic of Karelia: Kk, 2 km SW of Gridino, MT, 4.VII–9.VIII.2007, 1 female; Kon, Belaya Gora, pine forest, 16.VII.2002, 1 female (all A. Humala leg.).

****Orthocentrus patulus* Holmgren, 1858**

Material examined. RUSSIA. Leningradskaya Province: Pushkin, Aleksandrovskiy Garden, 10.IX.1967, 1 female; 55 km S of St Petersburg, 4 km W of Krasnitsy, aspen forest, MT, 23.V–3.VI.2011, 1 female (all D. Kasparyan leg.).

****Orthocentrus petiolaris* Thomson, 1897**

Material examined. RUSSIA. Republic of Karelia: Kon, Vottovaara Mt., spruce forest, MT, 17.VI–17.VII.2008, 2 females (A. Humala leg.).

****Orthocentrus protervus* Holmgren, 1858**

Material examined. RUSSIA. Republic of Karelia: Kon, “Kivach” Nature Reserve, pine forest, MT, 3–4.VII.1989, 1 female (A. Humala leg.); Kon, “Kivach” Nature Reserve, WT on dead birch, 27.VIII–28.IX.2015, 4 females (A. Polevoi leg.). Leningradskaya Province: 75 km N of St Petersburg, MT, 2–8.IX.2009, 1 female (D. Kasparyan leg.).

***Orthocentrus radialis* Thomson, 1897**

Material examined. RUSSIA. Murmansk Province: Lps, “Pasvik” Nature Reserve, Varlam I., 1 km SE, MT, 3.VIII–10.X.2007, 2 females. Republic of Karelia: Kk, 2 km SW of Gridino, MT, 4.VII–9.VIII.2007, 1 female (all A. Humala leg.).

***Orthocentrus sannio* Holmgren, 1858**

Material examined. RUSSIA. Leningradskaya Province: 55 km S of St Petersburg, 4 km W of Krasnitsy, aspen forest, MT, 4–11.VII.2010, 1 female (D. Kasparyan leg.). Kostroma Province: 18 km SSE of Kostroma, recreation centre Volgar’, high grassed forest; 1 male (D. Kasparyan leg.). Novosibirsk Province: 50 km E of Iskitim, Yurmanka, 54.59° N, 84.09° E, 6.VIII.2017, 1 male (A. Humala leg.). Zabaikalskiy Territory: railway station Savinskiy, Ingoda, 14.VIII.1970, 1 male (D. Kasparyan leg.). Sakhalin Province: Kunashir I., Sernovodsk, 15–16.VII.1973, 4 females, 1 male (D. Kasparyan leg.).

***Orthocentrus winnertzii* Foerster, 1850**

Material examined. RUSSIA. Yamal-Nenets Autonomous Area: 50 km NW of Labytnangi, mountain tundra, 500 m, 18.VII.1994, 1 male (D. Kasparyan leg.); Taz River, 40 km ESE of Ratta, 3.VIII.1992, 1 male (D. Kasparyan leg.). Nizhegorodskaya Province: biological station “Pustyn”, 29.VII.2015, 1 male (S. Belokobylskij leg.). Astrakhan Province: Kharabali, floodplain forest, meadow, 18 & 20.VI.2004, 1 female (S. Belokobylskij leg.).

****Picrostigeus antennalis* Roman, 1909**

Material examined. RUSSIA. Republic of Karelia: Kp, Pudozh District, 3 km SE of Prirechnyi, MT, 24.VI–13.VIII.2009, 1 female (A. Humala leg.).

***Picrostigeus debilis* (Gravenhorst, 1829)**

Material examined. RUSSIA. Republic of Karelia: Kp, Pudozh District, 3 km SE of Prirechnyi, MT, 24.VI–13.VIII.2009, 1 female (A. Humala leg.).

****Picrostigeus obscurus* Horstmann, 1994**

Material examined. RUSSIA. Republic of Karelia: Kp, Pudozh District, 3 km SE of Prirechnyi, MT, 24.VI–13.VIII.2009, 1 female (A. Humala leg.).

#*Plectiscus callidulus* (Holmgren, 1858)

Material examined. RUSSIA. Murmansk Province: Lim, Laplandskiy Nature Reserve, 5 km W of Chunozero, spruce forest, MT, 28.V–20.IX.2014, 2 females (A. Humala leg.); Lps, “Pasvik” Nature Reserve, Varlam I., 1 km SE, pine forest, MT, 3.VIII–10.X.2007, 2 females (A. Humala leg.). Altai Territory: 8 km S of Biysk, Ust’-Katun’, pine forest, 7–8.VII.2007, 1 female (A. Khalaim leg.).

#*Plectiscus impurator* Gravenhorst, 1829

Material examined. RUSSIA. Murmansk Province: Lim, Laplandskiy Nature Reserve, Krasnaya Lambina, spruce forest, MT, 22.VI–20.VII.2017, 1 female (A. Humala leg.); Lps, “Pasvik” Nature Reserve, Varlam I., pine forest, MT, 6.VI–10.VII.2007, 1 female (A. Humala leg.). Republic of Karelia: Kon, Kizhskiy Reserve, Bukol’nikov I., 30.VII.2018, 1 female (A. Humala leg.). Yaroslavl Province: Yaroslavl, 21.X.1896, 1 female (N. Kokujev leg.). Altai Territory: 8 km S of Biysk, Ust’-Katun’, pine forest, 7–8.VII.2007, 9 females, 1 male; SE of Biysk, mixed forest, 6.VII.2007, 4 females, 1 male; Barnaul, pine forest, 8.VIII.2007, 2 females (all A. Khalaim leg.). MONGOLIA. Ara-Khangai Aymag: 48 km S of Tevshrulekh, 2–3.VII.1975, 2 females (M. Kozlov leg.).

***#*Plectiscus minutus* (Holmgren, 1858)**

Material examined. RUSSIA. Murmansk Province: Lim, Laplandskiy Nature Reserve, 5 km W of Chunozero, spruce forest, MT, 28.V–20.IX.2014, 1 female (A. Humala leg.); 2 km N of Chunozero, spruce forest, MT, 24.VII–1.VIII.2013, 1 female (A. Humala leg.); Lps, “Pasvik” Nature Reserve, Kalkupya Mt., birch forest, 30.VII–11.X.2007, 1 female (A. Humala leg.). Republic of Karelia: Kon, Kivach Nature Reserve, pine forest, 21.VI.2002, 1 female (A. Humala leg.). Arkhangelsk Province: Novaya Zemlya archipelago, Matochkin Shar, Nochuev stream, 31.VII–1.VIII.1925, 2 females (Vakulenko leg.). Yaroslavl Province: Gedenovo, 3.VII.1918, 1 male (A. Shestakov leg.). Sverdlovskaya Province: Nizhny Tagil env., Chernostochinsk, sport base, 29.VII.1970, 1 female (E. Potapova leg.). Yamal-Nenets Autonomous Area: Ob’ River, 8 km downstream of Labyt-nangi, forest, 11.VII.1994, 1 female (D. Kasparyan leg.). Krasnoyarsk Territory: SW Taimyr Peninsula, 85 km N of Norilsk, Ladannakh Lake, pitfall traps, 4–15.VII.1999 & 8–14.VII.1999, 2 females (O. Makarova leg.). Republic of Sakha (Yakutia): Terpey Cape, Laptev sea shore, 26.VII.1988, 2 females (K. Gorodkov leg.). MONGOLIA. Ara-Khangai Aymag: 48 km S of Tevshrulekh, 2–3.VII.1975, 1 male (M. Kozlov leg.); Khubsugulsky Aymag: 45 km E of Tsetserleg-somon, 1.VII.1968, 1 female (M. Kozlov leg.).

***Plectiscus ridibundus* Gravenhorst, 1829**

Material examined. RUSSIA. Murmansk Province: Lps, “Pasvik” Nature Reserve, Varlam I., 1 km SE, MT, 3.VIII–10.X.2007, 5 females, 5 males (A. Humala leg.); same locality, Kalkupya Mt. 30.VII–11.X.2007, 3 females, 2 males (A. Humala leg.).

***Stenomacrus celer* (Holmgren, 1858)**

Material examined. RUSSIA. Murmansk Province: Lps, “Pasvik” Nature Reserve, Varlam I., 1 km SE, MT, 10.VII–3.VIII.2007 & 3.VIII–10.X.2007, 2 females, 2 males (A. Humala leg.); Lps, “Pasvik” Nature Reserve, Kalkupya Mt., MT, 30.VII–11.X.2007, 1 male (A. Humala leg.); Lim, Laplandskiy Nature Reserve, 5 km W of Chunozero, spruce forest, MT, 28.V–20.IX.2014, 1 female; 4 km SE of Chunozero, pine forest, MT, 23.VI–28.VII.2014, 1 female; 2 km N of Chunozero, spruce forest, MT, 23.VI–28.VII.2014, 1 female (A. Humala leg.). Republic of Karelia: Kon, Kizhskiy Reserve, Bukol’nikov I., 30.VII.2018, 1 female (A. Humala leg.). Leningradskaya Province: Sosnovo, 75 km N of St Petersburg, MT, 23.VI–3.VII.2009, 1 female (D. Kasparyan leg.).

****Stenomacrus cubiceps* (Thomson, 1897)**

Material examined. RUSSIA. Murmansk Province: Kola Peninsula, Murmansk, near lake, 28.IX.1923, 1 female (V. Fridolin leg.).

**Stenomacrus curvicaudatus* (Brischke, 1871)

Material examined. RUSSIA. Leningradskaya Province: 55 km S of St Petersburg, 4 km W of Krasnitsy, aspen forest, MT, 3–10.VI.2012, 2 females (D. Kasparyan leg.).

**Stenomacrus laricis* (Haliaday, 1838)

Material examined. RUSSIA. Republic of Karelia: Kon: “Kivach” Nature Reserve, emergence tarp, 30.VI–11.VII.1992, 1 female (A. Humala leg.). Stavropol Territory: Essentuki, Podkumok River, 3 & 5.X.1972, 2 females (W. Kuslitsky leg.).

**Stenomacrus ungula* (Thomson, 1898)

Material examined. RUSSIA. Murmansk Province: Lps, “Pasvik” Nature Reserve, Varlam I., 1 km SE, pine forest, MT, 3.VIII–10.X.2007, 2 females (A. Humala leg.). Republic of Karelia: Kon, 2 km N of Vendyury, mixed forest, MT, 21–24.VI.2018, 1 female (A. Humala leg.). Yamal-Nenets Autonomous Area: 50 km NW of Labytnangi, forest along Sob’ River, 4.VII.1994, 1 female (D. Kasparyan leg.).

Subfamily Oxytorinae

**Oxytorus diceratops* Lee et Kasparyan, 2014

Material examined. RUSSIA. Primorskiy Territory: 20 km SE of Ussuriysk, Gornotayozhnoe, 19–20.V.1999, 10 females (M. Mikhailovskaya leg.).

#*Oxytorus luridator* (Gravenhorst, 1829)

Material examined. RUSSIA. Novosibirsk Province: 50 km E of Iskitim, Yurmanka, 54.59° N, 84.09° E, 6.VIII.2017, 1 female (A. Humala leg.).

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