

SPECIES OF STAPHYLINIDAE (COLEOPTERA) NEW TO THE FAUNA OF LITHUANIA

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Introduction

Rove beetles (Staphylinidae) is the largest beetle family in Lithuania. In the catalog of beetles of Lithuania (Tamutis *et al.*, 2011) 812 species of rove beetles were indicated. A further fifty species are listed in later sources (Ferenca *et al.*, 2011, 2016, Ivinskis *et al.*, 2013, 2014, 2015, 2017, Lekoveckaitė *et al.*, 2019, Monsevičius, 2013, Pacevičius, 2017, 2019, Tamutis, 2012). The article provides data on 22 species of rove beetles that are new to the fauna of Lithuania.

Material and Methods

The material was collected by the author of this paper during the period from 2002 to 2020 in Akmenė and Mažeikiai districts (northern Lithuania). The beetles were collected by sifting leaf-litter, moss, rotten wood, flood debris from littoral of riversides or pond banks, compost, dung, decaying mushrooms etc. The beetles from sifted substrates were extracted in thermoelectors.

The following sources were used to identify the species: Assing, 1998, 2009a, 2009b, Assing & Schülke, 2011, Assing & Vogel, 2019, Benick & Lohse, 1974, Brundin, 1944, 1953, Cuccodoro & Löbl, 1997, Franz & Besuchet, 1971, Gildenkov, 2015, Klimaszewski *et al.*, 2018, Lee & Ahn, 2018, Likovský, 1974, Lohse, 1974, Muona, 1991, Palm, 1970, Zerche, 1998.

Taxonomy of beetles follows that of the Catalogue of Palaearctic Coleoptera (Schülke & Smetana, 2015). Photos of the structures, important for the identification of the species, were made by the author. The material is deposited in the personal collection of the author.

List of localities

Locality	Administrative district	Coordinates (LAT, LONG)
Akmenė (1)	Akmenė district	56.25000, 22.73944
Akmenė (2)	Akmenė district	56.24639, 22.71750
Akmenė (3)	Akmenė district	56.25028, 22.73806
Akmenė (4)	Akmenė district	56.25500, 22.75889
Akmenė (5)	Akmenė district	56.24944, 22.73472
Akmenė II	Akmenė district	56.25583, 22.70194
Dabikinėlė (1)	Akmenė district	56.23417, 22.69722
Dabikinėlė (2)	Akmenė district	56.23750, 22.69889
Dabikinėlė (3)	Akmenė district	56.23778, 22.69917
Dabikinėlė (4)	Akmenė district	56.23889, 22.69972
Dabikinėlė (5)	Akmenė district	56.23917, 22.70000
Dabikinėlė (6)	Akmenė district	56.24000, 22.70361

Dabikinėlė (7)	Akmenė district	56.23806, 22.69917
Dabikinėlė (8)	Akmenė district	56.24139, 22.70944
Dabikinėlė (9)	Akmenė district	56.24111, 22.70861
Kadagiai (1)	Akmenė district	56.23639, 22.72083
Kadagiai (2)	Akmenė district	56.24194, 22.71472
Kadagiai (3)	Akmenė district	56.24166, 22.71361
Kadagiai (4)	Akmenė district	56.24166, 22.71333
Kadagiai (5)	Akmenė district	56.24166, 22.71083
Kadagiai (6)	Akmenė district	56.24278, 22.71694
Kamanos Nat. R. (1)	Akmenė district	56.25861, 22.62667
Kamanos Nat. R. (2)	Akmenė district	56.25722, 22.62917
Kamanos Nat. R. (3)	Akmenė district	56.26389, 22.65722
Padvarėlių miškas f. (1)	Akmenė district	56.24556, 22.67722
Padvarėlių miškas f. (2)	Akmenė district	56.24889, 22.67722
Padvarėlių miškas f. (3)	Akmenė district	56.24889, 22.67417
Padvarėlių miškas f. (4)	Akmenė district	56.24833, 22.67694
Padvarėlių miškas f. (5)	Akmenė district	56.25611, 22.68556
Padvarėlių miškas f. (6)	Akmenė district	56.26056, 22.67861
Padvarėlių miškas f. (7)	Akmenė district	56.24944, 22.68889
Pakabučiai	Akmenė district	56.25139, 22.66389
Pavirvytė	Mažeikiai district	56.18056, 22.53056
Renavas (1)	Mažeikiai district	56.24083, 22.05889
Renavas (2)	Mažeikiai district	56.23278, 22.07083
Skretiškė (1)	Akmenė district	56.23444, 22.69695
Skretiškė (2)	Akmenė district	56.23472, 22.69695
Skretiškė (3)	Akmenė district	56.23250, 22.69250
Skretiškė (4)	Akmenė district	56.22889, 22.68778
Viliošiai (1)	Akmenė district	56.20917, 22.62722
Viliošiai (2)	Akmenė district	56.20945, 22.62750
Viliošiai (3)	Akmenė district	56.22611, 22.66806
Viliošiai (4)	Akmenė district	56.21000, 22.62694
Viliošiai (5)	Akmenė district	56.22667, 22.67945
Viliošiai (6)	Akmenė district	56.22667, 22.68167
Viliošių miškas f. (1)	Akmenė district	56.22639, 22.67000
Viliošių miškas f. (2)	Akmenė district	56.22778, 22.68694
Žerkščiai	Akmenė district	56.17333, 22.69583

List of species

PROTEININAE

Megarthrus nitidulus Kraatz, 1858 (Fig. 1)

Renavas, 21 08 2018, 1 spec., in decaying organic matter; Viliošių miškas f. (2), 06 08 2015, 4 spec., in decaying mushrooms.

Comments. This species is distributed throughout most of the Palaearctic region (Cuccodoro & Löbl, 1997). Known from Latvia, Estonia (Silfverberg, 2010), Poland (Kubisz & Melke, 1993).

ALEOCHARINAE

***Aleochara grandeguttata* Assing, 2009** (Fig. 2)

Akmenė (2), 14 12 2018, 1♂; Kamanos Nat. R. (1), 01 07 2002, 1♂. In decaying organic matter.

Comments. This species was described on material from Hungary, Turkey and Armenia (Assing, 2009a). Known also from Romania and Ukraine (Assing, 2011a, 2018a). According to V.B. Semenov *et al* (2015) *Aleochara grandeguttata* is widely distributed and known from Austria, Slovakia, Moldavia, Belarus, European Russia, North Ural, West and East Siberia.

***Aleochara peeziana* Lohse, 1961** (Fig. 4)

Dabikinėlė (2), 22 12 2019, 1♂; Dabikinėlė (3), 26 12 2019, 1♂1♀; Dabikinėlė (4), 18 10 2019, 1♂; Dabikinėlė (5), 1♀; Skretiškė (2), 17 12 2019, 1♀, in cow dung.

Comments. This species is known from Armenia, Austria, Czech Republic, Denmark, Finland, Germany, Italy, Norway, Poland, Slovakia, Slovenia, Sweden, Switzerland (Schülke & Smetana, 2015), Russia (Kaliningrad) (Assing, 2009a).

***Oxypoda nigrocincta* Mulsant & Rey, 1875** (Fig. 5)

Kadagiai (2), 20 09 2019, 1♂2♀, in leaf-litter of riverside overgrown by *Salix* scrubs.

Comments. Known from Austria, Belgium, Bosnia Herzegovina, Croatia, Czech Republic, France, Great Britain, Germany, Italy, Slovakia (Schülke & Smetana, 2015), Russia (Moscow Province) (Semenov, 2008).

***Oxypoda soror* C.G. Thomson, 1855** (Fig. 3)

Akmenė (3), 27 09 2019, 2♀, in decaying mushrooms.

Comments. This species is widespread in Europe, but rare (Assing, 2018b). Known from Latvia, Estonia (Silfverberg, 2010), Belarus (Solodovnikov, 2012), Poland (Burakowski *et al.*, 1981).

***Meotica filiformis* (Motschulsky, 1860)** (Fig. 6)

Akmenė (5), 03 03 2019, 1♂; Dabikinėlė (7), 1♂; Kamanos Nat. R. (3), 06 04 2019, 2♂; Padvarėlių miškas f. (3), 01 11 2019, 1♀; Renavas (2), 21 11 2019, 1♀; Skretiškė (1), 22 12 2019, 1♀; Skretiškė (3), 11 11 2019, 1♀; Viliošiai (5), 20 04 2019, 2♂; Viliošiai (6), 11 11 2019, 1♂. Habitat: leaf-litter in riverine scrubs, mixed deciduous and coniferous forests, mixed swamp forests.

Comments. Confirmed distribution are Norway, Sweden, Finland, Denmark, British Isles, Spain, France, Belgium, Germany, Switzerland, Austria, Czech Republic, Ukraine (Assing & Vogel, 2019). Also it was reported from Latvia, Estonia (Silfverberg, 2010), Belarus (Alexandrovich *et al.* 1996), Poland (Renner & Messutat, 2007).

***Dilacra luteipes* (Erichson, 1837)** (Fig. 7)

Pavirvytė, 07 07 2013, 1♀, sifted from drift material of river margin.

Comments. This species is widespread in West Palaearctic. Known from the neighbouring countries: Estonia (Silfverberg, 1910), Belarus (Aleksandrovich *et al.*, 1996), Poland (Burakowski *et al.*, 1981).

***Dochmonota clancula* (Erichson, 1837)** (Fig. 8)

Dabikinėlė (6), 13 11 2019, 1♀; Kadagiai (1), 24 04 2019, 1♂; Kamanos Nat. R. (2), 07 09 2014, 1♂; Padvarėlių miškas f. (2), 16 02 2020, 1♂; Viliošiai (1), 10 09 2014, 1♀; Viliošiai (2), 09 07 2014, 1♂; Viliošiai (3), 13 12 2019, 1♂; Viliošiai (4), 20 02 2020, 2♀. Habitat: leaf-litter in riverine and fen scrubs, deciduous forests, *Alnus* swamp forests, leaf-litter near the margins of pond.

Comments. Europaen-Siberian species. Known from the neighbouring countries: Estonia, Latvia (Silfverberg, 2010), Belarus (Derunkov & Melke, 2001), Poland (Burakowski *et al.*, 1981).

***Philhygra tmolosensis* (Bernhauer, 1940)** (Fig. 9)

Dabikinėlė (8), 16 03 2020, 1♂, in leaf-litter in a mixed forest near a seasonally flooded meadow.

Comments. This species is known from Austria, Czech Republic, Denmark, Germany, Hungary, Sweden, Turkey (Schülke & Smetana, 2015). Also it was reported from Belarus (Aleksandrowich *et al.*, 1996) and Russia (Moscow province) (Semenov, 2008).

***Atheta boreella* Brundin, 1948** (Fig. 10)

Viliošių miškas f. (1), 01 08 2015, 1♂, on carrion; Viliošių miškas f. (2), 06 08 2015, 1♂, in decaying mushrooms.

Comments. This species was reported from many countries in North and Central Europe and Mongolia. There are four records from Poland (Plewa *et al.*, 2019).

***Atheta picipennoides* Hanssen, 1932** (Fig. 11)

Dabikinėlė (2), 20 12 2019, 1♂, in cow dung.

Comments. This species was reported from Austria, Central and North European Russia, Estonia, Norway, Sweden (Schülke & Smetana, 2015), Finland (Rassi *et al.*, 2015).

***Atheta fungivora* (Thomson, 1867)** (Fig. 13)

Akmenė (3), 09 09 2018, 2♂, in decaying mushrooms.

Comments. This rare species is widely distributed in Europe and North Africa. It was reported from Kampinos National Park in Poland (Sawoniewicz, 2013).

***Trichiusa immigrata* Lohse, 1984** (Fig. 14)

Akmenė (1), 10 10 2016, 5 spec., 16 08 2018, 1 spec., 10 10 2019, 1 spec.; Akmenė II, 26 10 2018, 3 spec., 29 03 2019, 2 spec., 21 04 2019, 12 spec.; Dabikinėlė (2), 26 10 2019, 1 spec.; Padvarėlių miškas f. (7), 11 04 2019, 1 spec.; Pakabučiai, 14 10 2018, 1 spec.; Renavas, 21 08 2018, 28 spec. Habitat: synantropic habitats (compost, heaps of straw, haystacks) also in cow dung.

Comments. Invasive species originating from North America (Ødegaard, 1999). The first European specimens were found in 1975 ((Lohse & Lucht, 1989). Currently known from most European countries. From neighboring countries recorded from Poland (Melke, 1996) and Belarus (Derunkov, 2016).

***Acrotona pseudotenera* (Cameron, 1933)** (Fig. 15)

Akmenė (1), 16 08 2018, 2♂1♀, 12 09 2018, 1♀, 14 02 2019, 7 spec., 04 03 2019, 1♀, 10 10 2019, 2♂1♀; Akmenė II, 19 02 2019, 1♂1♀, 21 04 2019, 1♀; Dabikinėlė (1), 19 04 2019, 1♂; Padvarėlių miškas f. (1), 16 02 2020, 1♂; Pakabučiai, 14 04 2019, 1♀; Skretiškė (1), 22 12 2019, 1♂1♀. Habitat: compost, decaying grain, haystacks, heaps of straw, cow dung.

Comments. Alien species originating from Far East (Ødegaard, 1999). In Europe it was first found in 1988 in Finland (Ødegaard, 1999) and it is also known from Austria, Belgium, Belarus, Czech Republic, Denmark, Finland, Germany, Norway, Slovakia, Switzerland, Central European Russia (Schülke & Smetana, 2015), Poland (Renner & Messutat, 2007).

***Oligota parva* Kraatz, 1862** (Fig. 12)

Padvarėlių miškas f. (5), 16 11 2019, 6 spec.: Padvarėlių miškas f. (6), 29 09 2018, 4

spec., 15 11 2018, 4 spec.; Renavas (1), 21 08 2018, 1 spec. Habitat: decaying grain and other decaying organic matter.

Comments. This species probably introduced from South America in nineteenth century (Ødegaard, 1999). Cosmopolitan species widely distributed in Europe. In neighboring countries recorded from Estonia (Silfverberg, 2010), Poland (Burakowski *et al.*, 1981), Belarus (Solodovnikov, 2012).

OXYTELINAE

***Carpelimus lindrothi* (Palm, 1947)** (Fig. 16)

Padvarėlių miškas f. (2), 19 06 2019, 1♂, in leaf-litter in a *Pinus sylvestris* bog forest.

Comments. Palaearctic species. Known from neighbouring countries: Latvia, Estonia (Silfverberg, 2010), Poland (Renner & Messutat, 2007), Belarus (Gildenkov, 2015).

SCYDMAENINAE

***Neuraphes carinatus* (Mulsant & Rey, 1861)** (Fig. 17)

Žerkščiai, 12 05 2013, 1♀, in leaf-litter of deciduous forest.

Comments. This species is distributed in Central Europe and Central European Russia (Nikitsky & Legalov, 2016). In neighbouring countries recorded from Estonia (Silfverberg, 2010) and Poland (Burakowski *et al.*, 1978).

PSEUDOPSINAE

***Pseudopsis sulcata* Newman, 1834** (Fig. 18)

Akmenė (4), 17 02 2020, 1 spec., in decaying organic matter.

Comments. Rare West Palaearctic species (Zerche, 1992). Known from Poland (Burakowski *et al.*, 1979).

PAEDERINAE

***Pseudomedon obscurellus* (Erichson, 1840)** (Fig. 21)

Akmenė (1), 10 10 2019, 1♀, in decaying organic matter.

Comments. This species is distributed in the Western Palaearctic region (from Madeira, Northwest Africa, and the Iberian Peninsula eastwards to the Turkey and the Caucasus region) (Assing, 2009b). In neighbouring countries recorded from Latvia (Silfverberg, 2010), Estonia (Roosileht, 2015), Belarus (Solodovnikov, 2010), Poland (Burakowski *et al.*, 1979).

***Pseudomedon obsoletus* (Nordmann, 1837)** (Fig. 20)

Kadagiai (1), 24 04 2019, 1♀, in leaf-litter at the edge of a pond.

Comments. This species is known from the Western Palaearctic region (including Middle Asia), from the Iberian peninsula eastwards to Kazakhstan (Assing, 2009b). In neighbouring countries recorded from Latvia (Silfverberg, 2010), Estonia (Roosileht, 2015), Belarus (Solodovnikov, 2010), Poland (Burakowski *et al.*, 1979).

***Tetartopeus zetterstedti* (Rye, 1872)** (Fig. 19)

Dabikinėlė (6), 13 11 2019, 4♂2♀; Dabikinėlė (8), 16 03 2020, 2♀; Dabikinėlė (9), 13 04 2020, 1♀; Kadagiai (2), 20 09 2019, 1♀; Kadagiai (3), 16 04 2019, 1♂3♀; Kadagiai (4), 13 10 2019, 2♀; Kadagiai (5), 01 02 2020, 1♀; Kadagiai (6), 18 04 2020, 1♀; Skretiškė (4), 13 02 2020, 1♂1♀. Habitat: seasonally flooded meadows, leaf-litter in riverine *Salix* scrubs, flood debris along a river margin.

Comments. North Palaearctic species. It is distributed from France, the British Isles, and Scandinavia to Russian Far East (Assing, 2011b). Known from Latvia, Estonia (Silfverberg, 2010), Kaliningrad (Russia), Poland (Burakowski *et al.*, 1979).

STAPHYLININAE

***Gauropterus fulgidus* (Fabricius, 1787)** (Fig. 22)

Akmenė (1), 31 12 2016, 1 spec.; Akmenė (4), 18 09 2018, 2 spec. Habitat: decaying organic matter.

Comments. Widespread Palearctic species. In neighboring countries recorded from Latvia, Estonia (Silfverberg, 2010), Belarus (Solodovnikov, 2010), Poland (Burakowski *et al.*, 1980).

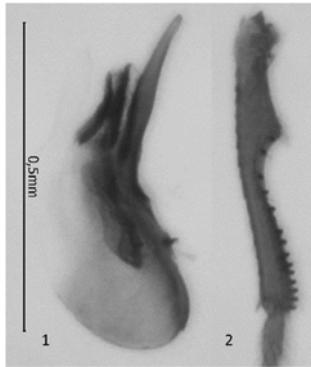


Fig. 1. *Megarthrus nitidulus*: aedeagus lateral (1), ♂ metatibia (2)

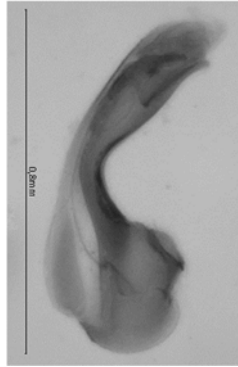


Fig. 2. *Aleochara grandeguttata*: aedeagus lateral

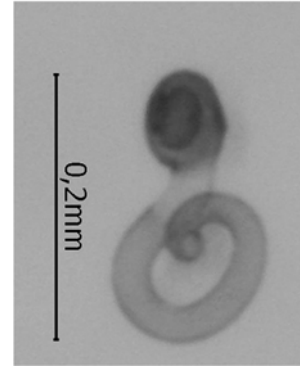


Fig. 3. *Oxypoda soror*: spermatheca

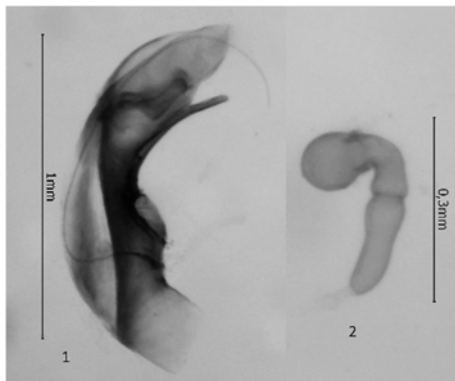


Fig. 4. *Aleochara peeziana*: aedeagus lateral (1), spermatheca (2)

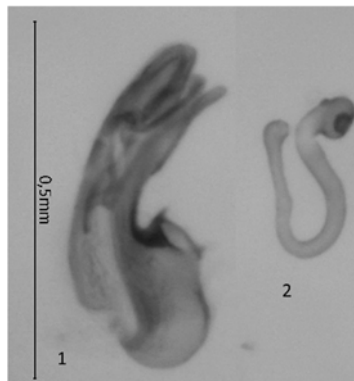


Fig. 5. *Oxypoda nigrocincta*: aedeagus lateral (1), spermatheca (2)

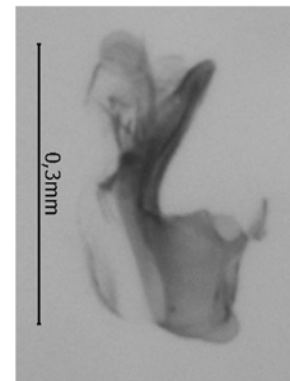


Fig. 6. *Meotica filiformis*: aedeagus lateral

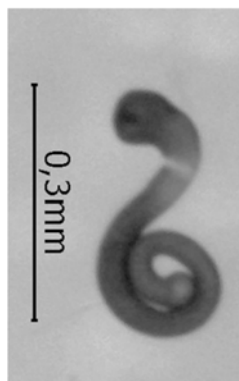


Fig. 7. *Dilacra luteipes*: spermatheca

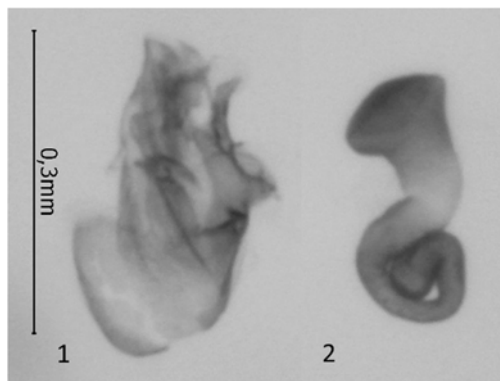


Fig. 8. *Dochmonota clancula*: aedeagus lateral (1), spermatheca (2)

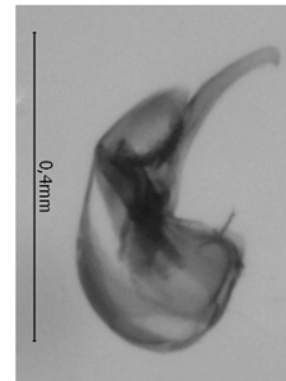


Fig. 9. *Philhygra tmolosensis*: aedeagus lateral

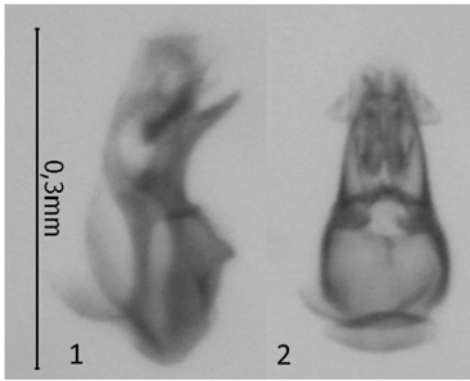


Fig. 10. *Atheta boreella*: aedeagus lateral (1) and ventral (2)

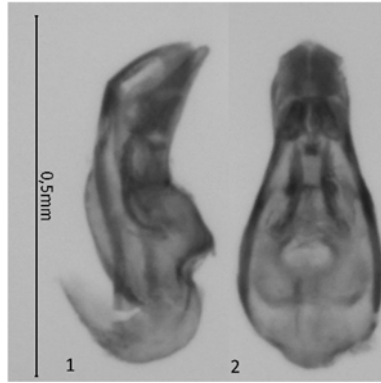


Fig. 11. *Atheta picipennoides*: aedeagus lateral (1) and dorsal (2)

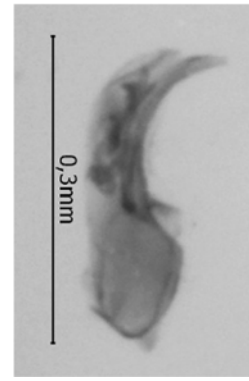


Fig. 12. *Oligota parva*: aedeagus lateral

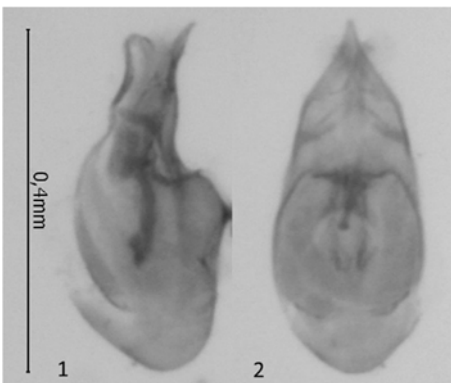


Fig. 13. *Atheta fungivora*: aedeagus lateral (1) and ventral (2)

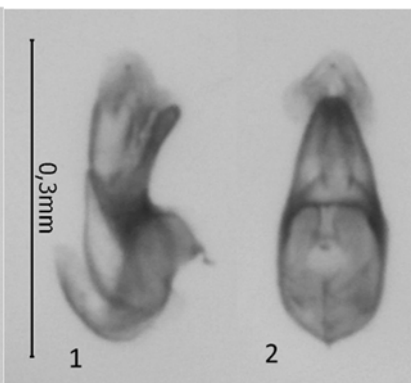


Fig. 14. *Trichiusa immigrata*: aedeagus lateral (1) and ventral (2)

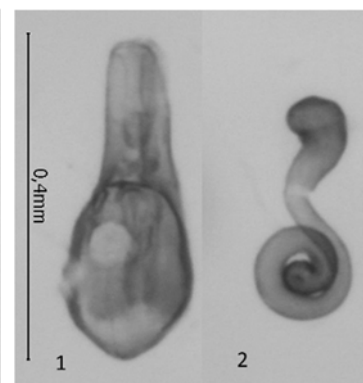


Fig. 15. *Acrotona pseudotenera*: aedeagus ventral (1), spermatheca (2)

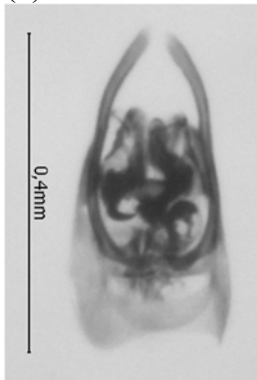


Fig. 16. *Carpelimus lindrothi*: aedeagus ventral



Fig. 17. *Neuraphes carinatus*: habitus



Fig. 18. *Pseudopsis sulcata*: habitus

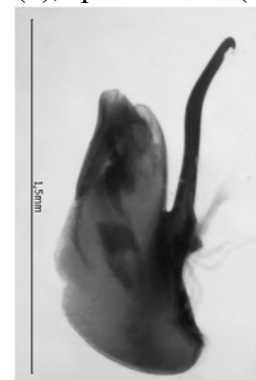


Fig. 19. *Tetartopeus zetterstedti*: aedeagus lateral



Fig. 20. *Pseudomedon obsoletus*: habitus

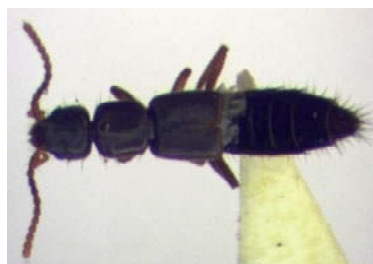


Fig. 21. *Pseudomedon obscurellus*: habitus



Fig. 22. *Gauropterus fulgidus*: habitus

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Naujos Lietuvos faunos trumpasparnių vabalų (Coleoptera, Staphylinidae) rūšys

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