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Longhorn beetles (Coleoptera: Cerambycidae) in Sakar Mountains, Bulgaria

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Abstract. A list of 70 species of the family Cerambycidae (Coleoptera) from the Bulgarian part of Sakar Mountains was prepared based on literature and new data. During the field studies conducted by the authors, 66 species of the family were collected and identified. Of these 49 are reported as new for the study area and for another 17 species new distributional data from the territory of the mountains are presented. Among the species of particular interest in terms of their distribution are *Pedostrangalia verticalis* (Germar, 1822), *Stenurella bifasciata bifasciata* (O. F. Müller, 1776), *Stictoleptura pallens* (Brullé, 1832), *Cortodera differens magdae* Danilevsky, 2012, *Agapanthia villosoviridescens gazanchidisi* Lazarev, 2021, *Oxylia duponchelii* (Brullé, 1832), *Phytoecia affinis tuerki* Ganglbauer, 1884 and *Phytoecia pustulata pustulata* (Schrank, 1776). The species *Cerambyx cerdo cerdo* Linnaeus, 1758 and *Morimus asper funereus* Mulsant, 1863 are included in the Directive 92/43/EEC on the conservation of natural habitats and wild fauna and flora.

Key words: Cerambycidae, distribution, Bulgaria, Sakar Mountains

Introduction

Sakar is a small mountain with hilly and low mountainous terrain (the highest peak is Vishegrad Peak, 856 m a.s.l.), located between the valleys of Maritsa and Tundzha Rivers in the South-East end of the Balkan Peninsula (Bulgaria and Türkiye) (Tzankov *et al.* 2017).

Special studies of the species composition of the family Cerambycidae (Coleoptera) in the Bulgarian part of Sakar Mountains have not been conducted so far. Records of a total of 21 species of the family from the territory of Sakar Mountains can be found in the publications of Kantardjieva-Minkova (1957), Angelov (1967), Ganev (1986), Bringmann (1995), Doychev & Georgiev (2004), Georgiev *et al.* (2005b), Siering *et al.* (2013), Doychev *et al.* (2017, 2018), Rapuzzi *et al.* (2020), Lazarev (2021, 2022), Kostova *et al.* (2023) and Gradinarov & Petrova (2023, 2024a, b).

In this work we present a species list of the family Cerambycidae for the Bulgarian part of Sakar Mountains, prepared with the available literature data and a new data, obtained from our field studies in the area. Species of special interest in terms of their distribution in Bulgaria are illustrated with original photographs.

Materials and Methods

The new material from Sakar Mountains was collected by the authors in the period 2016 – 2024, mainly by hand. Light trapping (portable lamps with 8W black and white tubes, powered by 12V battery), pitfall traps with propylene glycol, wine traps and net sweeping were used as additional collecting methods.

The higher classification of Cerambycidae, used in the preparation of the species list, follows that in Danilevsky (2020a). Species new to the study area are given with an asterisk. The pictures of the habitats and those of the beetles in natural environment were taken with digital cameras Canon PowerShot SX420 IS or Canon EOS 250D (Figs 9 – 11; 18 – 19). The pictures of prepared specimens were taken with Olympus SZ61 stereomicroscope, equipped with Canon EOS 2000D digital camera. The collected specimens are preserved in the Zoological Collection of Sofia University "St. Kliment Ohridski", Faculty of Biology (BFUS). Data on all specimens are digitized in the collection database.

Results and Discussion

List of species

Family Cerambycidae Latreille, 1802

Subfamily Prioninae Latreille, 1802

Tribe Aegosomatini J. Thomson, 1861

***Aegosoma scabricorne* (Scopoli, 1763)**

New data: W of Ustrem Vill., 42°01.411′N 26°27.159′E, 98 m a.s.l., riverine forest, 15.vii.2020, 1 ♂ (BFUS-CER000015), on a trunk of *Juglans regia* L., Y. Petrova leg.; W of Ustrem Vill., 42°01.450′N 26°27.093′E, 101 m a.s.l., riverine vegetation, 22.vii.2021, 1 ♂ (BFUS-CER000016), on a trunk of *Salix* sp., D. Gradinarov leg.

Tribe Prionini Latreille, 1802

***Prionus coriarius* (Linnaeus, 1758)**

New data: W of Ustrem Vill., 42°01.449′N 26°27.084′E, 101 m a.s.l., riverine vegetation, 12.vii.2020, 1 ♂ (BFUS-CER000017), at light (white & UV), D. Gradinarov leg.

Subfamily Lepturinae Latreille, 1802

Tribe Lepturini Latreille, 1802

***Alosterna tabacicolor tabacicolor* (De Geer, 1775)**

New data: Planinovo Vill., 41°57.493′N 26°22.783′E, 394 m a.s.l., 07.vi.2020, 1 ♂ (BFUS-CER000018), Y. Petrova leg.; SE of Knyazhevo Vill., 42°06.017′N 26°30.362′E, 102 m a.s.l., dirt road, riverine vegetation and xerothermic grasslands (Fig. 18 C), 28.vi.2022, 1 ♀ (BFUS-CER000019), D. Gradinarov & Y. Petrova leg.

***Anastrangalia dubia dubia* (Scopoli, 1763)**

New data: W of Ustrem Vill., 42°01.357′N 26°26.900′E, 104 m a.s.l., riverine vegetation, agricultural field boundaries (Fig. 9 B), 02.vii.2022, 1 ♀ (BFUS-CER000020), D. Gradinarov leg.; SE of Glavan Vill., 42°01.193′N 26°09.861′E, 647 m a.s.l., mixed forest with oak and black pine, forest glades (Fig. 9 E), 26.vi.2023, 1 ♀ (BFUS-CER000021), D. Gradinarov leg.

***Pachytodes erraticus* (Dalman, 1817)**

New data: SW of Kostur Vill., 41°57.192′N 26°15.080′E, 399 m a.s.l., roadside vegetation, oak forest, 09.vi.2020, 5 ♂♂ (BFUS-CER000022 – BFUS-CER000026), 2 ♀♀ (BFUS-CER000027, BFUS-CER000028), D. Gradinarov & Y. Petrova leg.; SW of Kostur Vill.,

41°57.199′N 26°15.032′E, 404 m a.s.l., roadside vegetation, oak forest, 26.v.2023, 1 ♂ (BFUS-CER000029), 1 ♀ (BFUS-CER000030), D. Gradinarov leg.; the same data, 1 ♂ (BFUS-CER000031), 1 ♀ (BFUS-CER000032), Y. Petrova leg.; SE of Glavan Vill., 42°01.865′N 26°08.765′E, 630 m a.s.l., forest glades, oak forest, 09.vi.2020, 1 ♂ (BFUS-CER000033), D. Gradinarov & Y. Petrova leg.; SE of Glavan Vill., 42°01.193′N 26°09.861′E, 647 m a.s.l., mixed forest with oak and black pine, forest glades (Fig. 9 E), 26.vi.2023, 1 ♂ (BFUS-CER000034), 1 ♀ (BFUS-CER000035), D. Gradinarov leg.; NE of Balgarska Polyana Vill., 42°02.399′N 26°12.569′E, 420 m a.s.l., roadside meadows (Fig. 9 C), 12.v.2024, 1 ♀ (BFUS-CER000036), Y. Petrova leg.

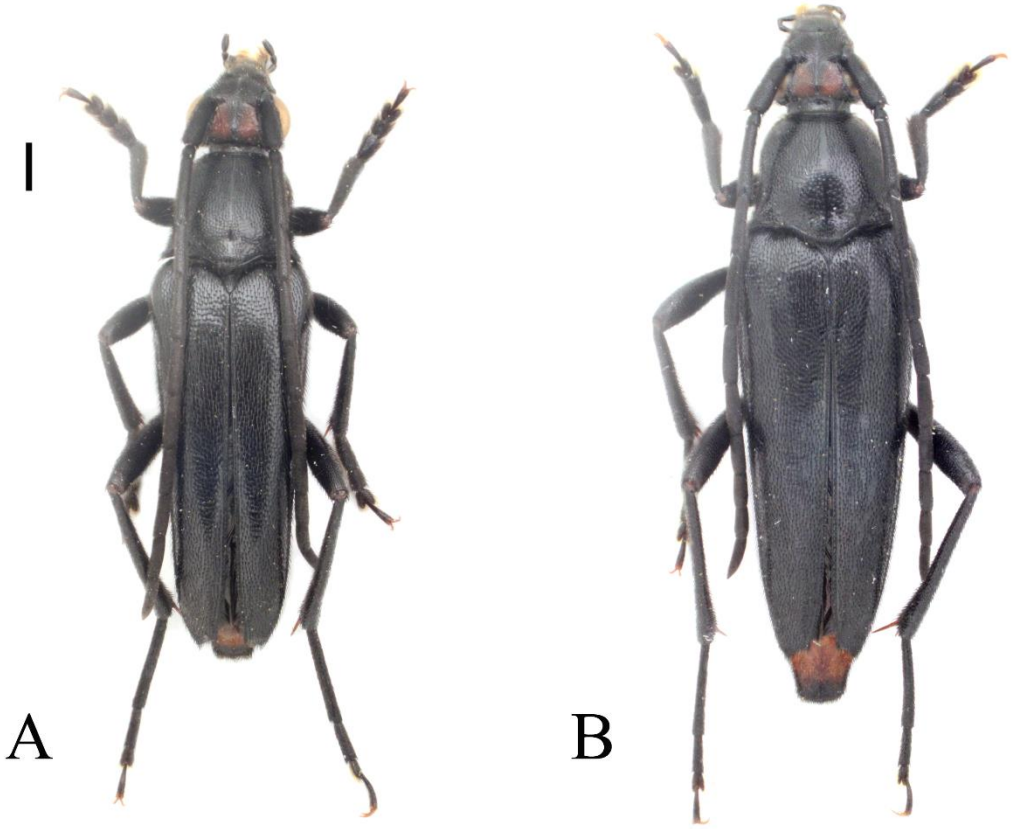

Fig. 1. *Pedostrangalia verticalis*, Glavan locality, Sakar Mts, 26.v.2019. A – male (BFUS-CER000041); B – female (BFUS-CER000043). Scale bar: 1 mm.

******Pedostrangalia* **(***Neosphenalia***)** ***verticalis*** **(Germar, 1822)** (Fig. 1)

New data: SW of Kostur Vill., 41°57.206′N 26°15.051′E, 405 m a.s.l., forest glades, oak forest, 18.v.2016, 1 ♀ (BFUS-CER000037), D. Gradinarov & Y. Petrova leg.; SW of Kostur Vill., 41°58.018′N 26°16.824′E, 437 m a.s.l., meadows, oak forest, 18.v.2016, 1 ♀ (BFUS-CER000038), D. Gradinarov & Y. Petrova leg.; SW of Kostur Vill., 41°57.199′N 26°15.032′E, 404 m a.s.l., roadside vegetation, oak forest, 26.v.2023, 1 ♂ (BFUS-CER000039), Y. Petrova leg.; NW of Yerusalimovo Vill., 41°53.913′N 26°05.529′E, 140 m a.s.l., xerothermic vegetation, 26.v.2023, 1 ♂ (BFUS-CER000040), Y. Petrova leg.; 5 km SE of Glavan Vill., 42°01.825′N 26°08.743′E, 620 m a.s.l., forest glades, oak forest, 26.v.2019, 2 ♂♂ (BFUS-CER000041, BFUS-CER000042), 1 ♀ (BFUS-CER000043), Y. Petrova leg.

Notes: The known range of *P. verticalis* in Bulgaria covers the southern regions of the country (Joakimov 1904, Roubal 1931, Heyrovský 1931, Kantardjiewa-Minkova 1932, Ganev 1984, Simandl 2002, Rapuzzi & Georgiev 2007, Georgiev *et al.* 2015, Gradinarov *et*

al. 2020). In Sakar Mountains, its distribution seems to be limited to the remnants of xerothermic oak forests.

******Pseudovadonia livida setosa* **Danilevsky, 2013** (Fig. 2)

New data: SW of Kostur Vill., 41°57.333′N 26°15.281′E, 395 m a.s.l., forest glades, oak forest, 18.v.2016, 5 ♂♂ (BFUS-CER000044 – BFUS-CER000048), 2 ♀♀ (BFUS-CER000049, BFUS-CER000050), D. Gradinarov & Y. Petrova leg.; SW of Kostur Vill., 41°58.018′N 26°16.824′E, 437 m a.s.l., meadows, oak forest, 18.v.2016, 2 ♀♀ (BFUS-CER000051, BFUS-CER000052), D. Gradinarov & Y. Petrova leg.; SW of Kostur Vill., 41°57.192′N 26°15.080′E, 399 m a.s.l., roadside vegetation, oak forest, 09.vi.2020, 1 ♂ (BFUS-CER000053), D. Gradinarov & Y. Petrova leg.; SE of Glavan Vill., 42°01.821′N 26°08.758′E, 627 m a.s.l., forest glades, oak forest, 19.v.2016, 2 ♂♂ (BFUS-CER000054, BFUS-CER000055), 1 ♀ (BFUS-CER000056), D. Gradinarov & Y. Petrova leg.; SE of Glavan Vill., 42°01.787′N 26°08.720′E, 627 m a.s.l., meadows and forest glades, oak forest, 09.vi.2020, 3 ♂♂ (BFUS-CER000057 – BFUS-CER000059), D. Gradinarov leg.; 2 km NE of Balgarska Polyana Vill., 42°00.856′N 26°11.307′E, 538 m a.s.l., roadside verges, 25.v.2019, 1 ♂ (BFUS-CER000060), 2 ♀♀ (BFUS-CER000061, BFUS-CER000062), D. Gradinarov & Y. Petrova leg.; 1 km NE of Balgarska Polyana Vill., 42°02.369′N 26°12.534′E, 415 m a.s.l., roadside verges, 26.v.2019, 1 ♂ (BFUS-CER000063), Y. Petrova & D. Gradinarov leg.; Planinovo Vill., 41°57.493′N 26°22.783′E, 394 m a.s.l., 07.vi.2020, 3 ♂♂ (BFUS-CER000064 – BFUS-CER000066), 1 ♀ (BFUS-CER000067), Y. Petrova leg.; W of Ustrem Vill., 42°01.449′N 26°27.037′E, 102 m a.s.l., riverine meadows, 08.vi.2020, 1 ♂ (BFUS-CER000068), D. Gradinarov leg.; W of Ustrem Vill., 42°01.447′N 26°27.085′E, 96 m a.s.l., riverine vegetation, 24.v.2023, 2 ♂♂ (BFUS-CER000069, BFUS-CER000070), D. Gradinarov leg.; W of Ustrem Vill., 42°01.354′N 26°26.904′E, 106 m a.s.l., riverine vegetation, poplar and alder trees, 23.vi.2023, 1 ♂ (BFUS-CER000071), D. Gradinarov leg.; SE of Knyazhevo Vill., 42°06.017′N 26°30.362′E, 102 m a.s.l., dirt road, riverine vegetation and xerothermic grasslands (Fig. 18 C), 07.vi.2020, 2 ♀♀ (BFUS-CER000072, BFUS-CER000073), D. Gradinarov & Y. Petrova leg.; 1,5 km N of Sakartsi Vill., 42°03.696′N 26°17.567′E, 365 m a.s.l., roadside verges and meadows, 07.v.2024, 4 ♂♂ (BFUS-CER000074 – BFUS-CER000077), 2 ♀♀ (BFUS-CER000078, BFUS-CER000079), on *Matricaria* sp., D. Gradinarov & Y. Petrova leg.; 4 km NE of Izvorovo Vill., 41°59.526′N 26°10.866′E, 577 m a.s.l., roadside vegetation, 26.v.2019, 1 ♂ (BFUS-CER000080), D. Gradinarov & Y. Petrova leg.; W of Branitsa Vill., 42°00.466′N 26°04.582′E, 386 m a.s.l., dirt road, meadows, 20.v.2023, 1 ♀ (BFUS-CER000081), Y. Petrova leg.; NW of Yerusalimovo Vill., 41°53.913′N 26°05.529′E, 140 m a.s.l., xerothermic vegetation, 26.v.2023, 1 ♂ (BFUS-CER000082), 6 ♀♀ (BFUS-CER000083 – BFUS-CER000088), D. Gradinarov leg.

Notes: *Pseudovadonia livida* (Fabricius, 1777) is widespread in Bulgaria (Migliaccio *et al.* 2007), and in a number of the regions it is represented by the subspecies *P. livida setosa* (Danilevsky 2013, Gradinarov & Petrova 2019, 2020, Georgiev *et al.* 2019). At the same time, the nominative subspecies is also listed for the country in the Catalogue of Palaearctic Coleoptera (Danilevsky 2020b) and has been reported in recent faunistic surveys within the range of *P. livida setosa* (Georgiev, 2020, Georgiev *et al.* 2018, 2022). The taxonomic structure of this species in Bulgaria needs to be clarified.

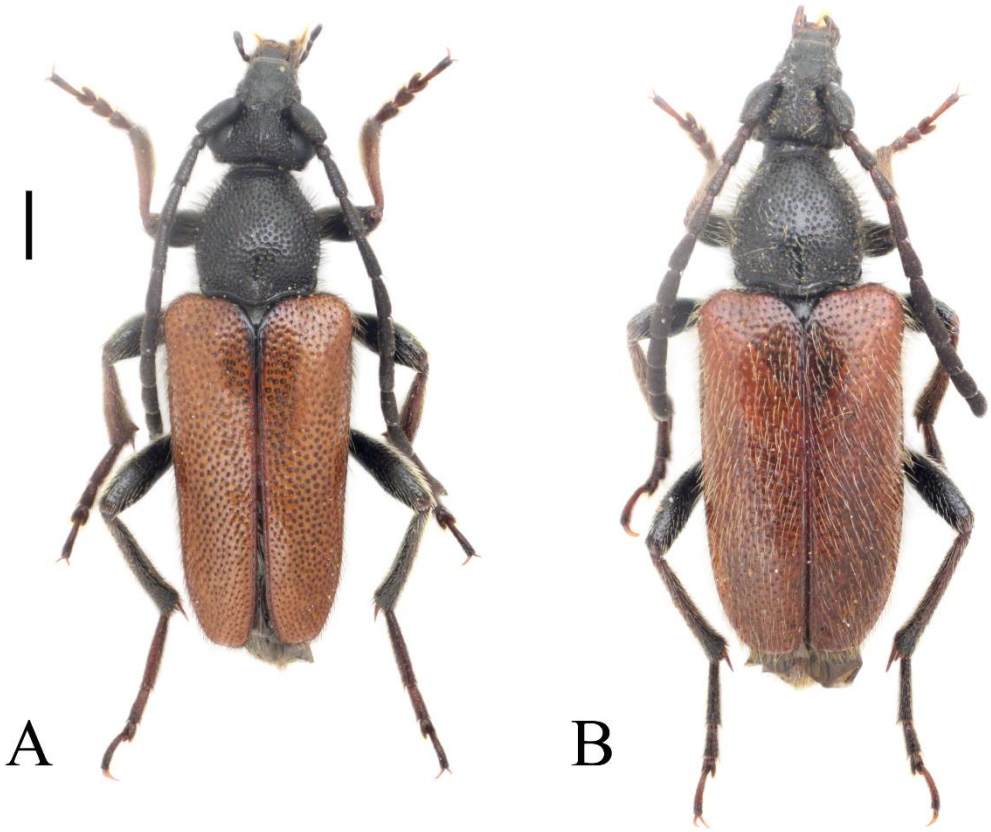

Fig. 2. *Pseudovadonia livida setosa* from Sakar Mts. A – male, Ustrem locality, 24.v.2023 (BFUS-CER000070); B – female, Knyazhevo locality, 07.vi.2020 (BFUS-CER000072). Scale bar: 1 mm.

***Rutpela maculata maculata* (Poda von Neuhaus, 1761)**

New data: 2 km SE of Topolovgrad, 42°03.644'N 26°20.502'E, 426 m a.s.l., meadows, pine and oak forest, 18.vii.2017, 1 ♀ (BFUS-CER000089), Y. Petrova leg.; SE of Glavan Vill., 42°01.865′N 26°08.765′E, 630 m a.s.l., forest glades, oak forest, 09.vi.2020, 1 ♂ (BFUS-CER000090), Y. Petrova leg.; the same data, 1 ♂ (BFUS-CER000091), D. Gradinarov & Y. Petrova leg.; SE of Glavan Vill., 42°01.787′N 26°08.720′E, 627 m a.s.l., meadows and forest glades, oak forest, 09.vi.2020, 1 ♂ (BFUS-CER000092), D. Gradinarov leg.; SE of Glavan Vill., 42°01.193′N 26°09.861′E, 647 m a.s.l., mixed forest with oak and black pine, forest glades (Fig. 9 E), 26.vi.2023, 1 ♀ (BFUS-CER000093), D. Gradinarov leg.

***Stenurella* (*Nigrostenurella*) *nigra nigra* (Linnaeus, 1758)**

Literature data: Topolovgrad (Siering *et al.* 2013: 233).

New data: 5 km SE of Glavan Vill., 42°01.825′N 26°08.743′E, 620 m a.s.l., forest glades, oak forest, 26.v.2019, 1 ♀ (BFUS-CER000094), Y. Petrova leg.; SW of Kostur Vill., 41°57.199′N 26°15.032′E, 404 m a.s.l., roadside vegetation, oak forest, 26.v.2023, 1 ♂ (BFUS-CER000095), Y. Petrova leg.; the same data, 1 ♀ (BFUS-CER000096), D. Gradinarov leg.

***Stenurella* (*Priscostenurella*) *bifasciata bifasciata* (O. F. Müller, 1776)** (Fig. 3 A)

Literature data: vicinity of Ustrem Vill. (Gradinarov & Petrova 2024b: 120).

New data: SW of Kostur Vill., 41°57.333′N 26°15.281′E, 395 m a.s.l., forest glades, oak forest, 18.v.2016, 1 ♂ (BFUS-CER000097), D. Gradinarov & Y. Petrova leg.; SW of Kostur Vill., 41°57.158′N 26°14.817′E, 390 m a.s.l., roadside vegetation next to vineyards,

18.vii.2017, 3 ♂♂ (BFUS-CER000098 – BFUS-CER000100), Y. Petrova leg.; SW of Kostur Vill., 41°57.192′N 26°15.080′E, 399 m a.s.l., roadside vegetation, oak forest, 09.vi.2020, 1 ♀ (BFUS-CER000101), D. Gradinarov & Y. Petrova leg.; 2 km SE of Topolovgrad, 42°03.644'N 26°20.502'E, 426 m a.s.l., meadows, pine and oak forest, 18.vii.2017, 2 ♂♂ (BFUS-CER000102, BFUS-CER000103), 1 ♀ (BFUS-CER000104), Y. Petrova leg.; SE of Knyazhevo Vill., 42°06.017′N 26°30.362′E, 102 m a.s.l., dirt road, riverine vegetation and xerothermic grasslands (Fig. 18 C), 07.vi.2020, 1 ♀ (BFUS-CER000105), D. Gradinarov & Y. Petrova leg.; NW of Ustrem Vill., 42°01.435′N 26°26.882′E, 110 m a.s.l., meadows, 22.vii.2021, 1 ♀ (BFUS-CER000106), on Apiaceae, D. Gradinarov leg.; W of Ustrem Vill., 42°01.377′N 26°26.908′E, 103 m a.s.l., riverine vegetation, alfalfa field boundaries, 29.vi.2022, 2 ♂♂ (BFUS-CER000107, BFUS-CER000108), 2 ♀♀ (BFUS-CER000109, BFUS-CER000110), D. Gradinarov leg.; SE of Ustrem Vill., the road to Radovets Vill., 41°58.452′N 26°28.994′E, 207 m a.s.l., meadows, mixed deciduous forest with oak, 12.vii.2020, 1 ♀ (BFUS-CER000111), Y. Petrova leg.; SE of Ustrem Vill., the road to Radovets Vill., 41°58.234′N 26°28.989′E, 213 m a.s.l., roadside verges, 16.vii.2020, 1 ♂ (BFUS-CER000112), 1 ♀ (BFUS-CER000113), on Apiaceae, Y. Petrova leg.; SE of Ustrem Vill., the road to Radovets Vill., 41°58.563′N 26°29.026′E, 203 m a.s.l., meadows, edge of oak forest (Fig. 9 D), 23.vii.2021, 1 ♂ (BFUS-CER000114), 3 ♀♀ (BFUS-CER000115 – BFUS-CER000117), D. Gradinarov leg.; the same data, 1 ♀ (BFUS-CER000118), Y. Petrova leg.; SE of Ustrem Vill., the road to Radovets Vill., 41°58.518′N 26°29.013′E, 203 m a.s.l., meadows, edge of oak forest, 30.vi.2022, 3 ♂♂ (BFUS-CER000119 – BFUS-CER000121), 4 ♀♀ (BFUS-CER000122 – BFUS-CER000125), on Apiaceae, Y. Petrova leg.; the same data, 3 ♂♂ (BFUS-CER000126 – BFUS-CER000128), 4 ♀♀ (BFUS-CER000129 – BFUS-CER000132), on Apiaceae, D. Gradinarov leg.; SE of Glavan Vill., 42°01.865′N 26°08.765′E, 630 m a.s.l., forest glades, oak forest, 09.vi.2020, 1 ♀ (BFUS-CER000133), Y. Petrova leg.; the same data, 1 ♀ (BFUS-CER000134), D. Gradinarov & Y. Petrova leg.; SE of Glavan Vill., 42°01.193′N 26°09.861′E, 647 m a.s.l., mixed forest with oak and black pine, forest glades (Fig. 9 E), 26.vi.2023, 2 ♂♂ (BFUS-CER000135, BFUS-CER000136), 4 ♀♀ (BFUS-CER000137 – BFUS-CER000140), D. Gradinarov leg.; the same data, 1 ♀ (BFUS-CER000141), Y. Petrova leg.

Notes: In the Catalogue of Palaearctic Coleoptera (Danilevsky 2020b) the species *S. bifasciata* is represented in Bulgaria only by the subspecies *S. bifasciata intermedia* Holzschuh, 2006 (described from Greece), which is characterized by considerably reduced black elytral design in females (Danilevsky 2011). However, *S. bifasciata intermedia* is only known from South-West Bulgaria – the southern parts of Struma and Mesta River valleys (Danilevsky 2011). In all other studied by us regions of the country, including Sakar Mountains, females of *S. bifasciata* have well developed black elytral design, which we consider to be the nominative subspecies *S. bifasciata bifasciata* (Gradinarov & Petrova 2019, 2020).

******Stenurella* **(***Priscostenurella***)** ***septempunctata septempunctata*** **(Fabricius, 1793)**

New data: Sremski prolom Gorge, NE of Srem Vill., 42°04.143′N 26°30.495′E, 98 m a.s.l., roadside vegetation, 07.vi.2020, 1 ♀ (BFUS-CER000142), on *Centaurea* sp., D. Gradinarov & Y. Petrova leg.; W of Ustrem Vill., 42°01.377′N 26°26.908′E, 103 m a.s.l., riverine vegetation, alfalfa field boundaries, 29.vi.2022, 1 ♀ (BFUS-CER000143), D. Gradinarov leg.; W of Ustrem Vill., 42°01.357′N 26°26.900′E, 104 m a.s.l., riverine vegetation, agricultural field boundaries (Fig. 9 B), 01.vii.2022, 1 ♂ (BFUS-CER000144), D. Gradinarov leg.; SE of Ustremski Manastir Monastery, 42°01.608′N 26°26.059′E, 121 m a.s.l., dirt road, meadows next to an oak forest, 30.vi.2022, 1 ♀ (BFUS-CER000145), D. Gradinarov leg.; SE of Glavan Vill., 42°01.787′N 26°08.720′E, 627 m a.s.l., meadows and forest glades, oak forest, 09.vi.2020, 1 ♂ (BFUS-CER000146), 1 ♀ (BFUS-CER000147), D.

Gradinarov leg.; SW of Kostur Vill., 41°57.192′N 26°15.080′E, 399 m a.s.l., roadside vegetation, oak forest, 09.vi.2020, 1 ♂ (BFUS-CER000148), D. Gradinarov & Y. Petrova leg.

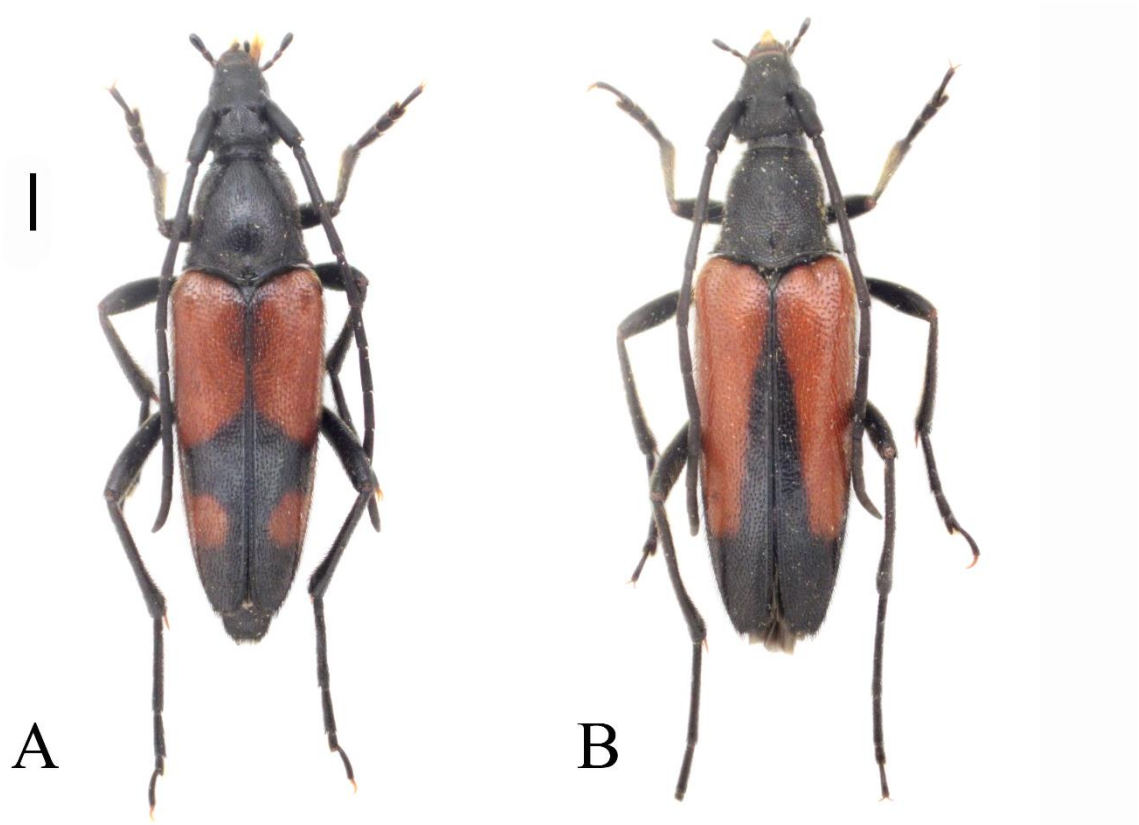

Fig. 3. Females of *Stenurella* spp. from Sakar Mts. A – *Stenurella bifasciata bifasciata*, Knyazhevo locality, 07.vi.2020 (BFUS-CER000105); B – *Stenurella melanura samai*, Glavan locality, 26.vi.2023 (BFUS-CER000152). Scale bar: 1 mm.

***Stenurella* (*Stenurella*) *melanura samai* Rapuzzi, 1995** (Fig. 3 B)

New data: W of Ustrem Vill., 42°01.449′N 26°27.037′E, 102 m a.s.l., riverine meadows, 08.vi.2020, 1 ♂ (BFUS-CER000149), D. Gradinarov leg.; SE of Ustrem Vill., the road to Radovets Vill., 41°58.518′N 26°29.013′E, 203 m a.s.l., meadows, edge of oak forest, 30.vi.2022, 1 ♀ (BFUS-CER000150), on Apiaceae, D. Gradinarov leg.; SE of Glavan Vill., 42°01.193′N 26°09.861′E, 647 m a.s.l., mixed forest with oak and black pine, forest glades (Fig. 9 E), 26.vi.2023, 1 ♂ (BFUS-CER000151), 1 ♀ (BFUS-CER000152), Y. Petrova leg.; the same data, 1 ♀ (BFUS-CER000153), D. Gradinarov leg.

Notes: In Bulgaria, the taxon *S. melanura samai* has been recorded from a number of localities in the south-eastern and the central parts of the country (Rapuzzi & Georgiev 2007, Georgiev *et al.* 2018, Gradinarov & Petrova 2020) and differs from the nominative subspecies in particular by the gold pubescence on the elytra, legs, pronotum base and antennae (Rapuzzi 1995).

***Stictoleptura* (*Maculileptura*) *pallens* (Brullé, 1832)** (Fig. 4)

New data: 4 km NE of Izvorovo Vill., 41°59.526′N 26°10.866′E, 577 m a.s.l., roadside vegetation, 26.v.2019, 6 ♂♂ (BFUS-CER000154 – BFUS-CER000159), 3 ♀♀ (BFUS-CER000160 – BFUS-CER000162), D. Gradinarov & Y. Petrova leg.; NE of Izvorovo Vill., 41°59.077'N 26°09.873'E, 496 m a.s.l., meadows and shrubs near a roadside water tap (Fig. 10 B), 08.v.2024, 1 ♂ (BFUS-CER000163), D. Gradinarov & Y. Petrova leg.; SE of Glavan

Vill., 42°01.143'N 26°09.781'E, 646 m a.s.l., dry roadside meadows next to mixed forest with oak and black pine, 11.v.2024, 1 ♂ (BFUS-CER000164), 1 ♀ (BFUS-CER000165), Y. Petrova leg.; NE of Balgarska Polyana Vill., 42°02.399′N 26°12.569′E, 420 m a.s.l., roadside meadows (Fig. 9 C), 12.v.2024, 1 ♂ (BFUS-CER000166), Y. Petrova leg.

Notes: *Stictoleptura pallens* is distributed in Southeastern Europe and Asian Türkiye (Danilevsky 2020b). In Bulgaria, it is recorded mainly from the southern parts of the country (Migliaccio *et al.* 2007).

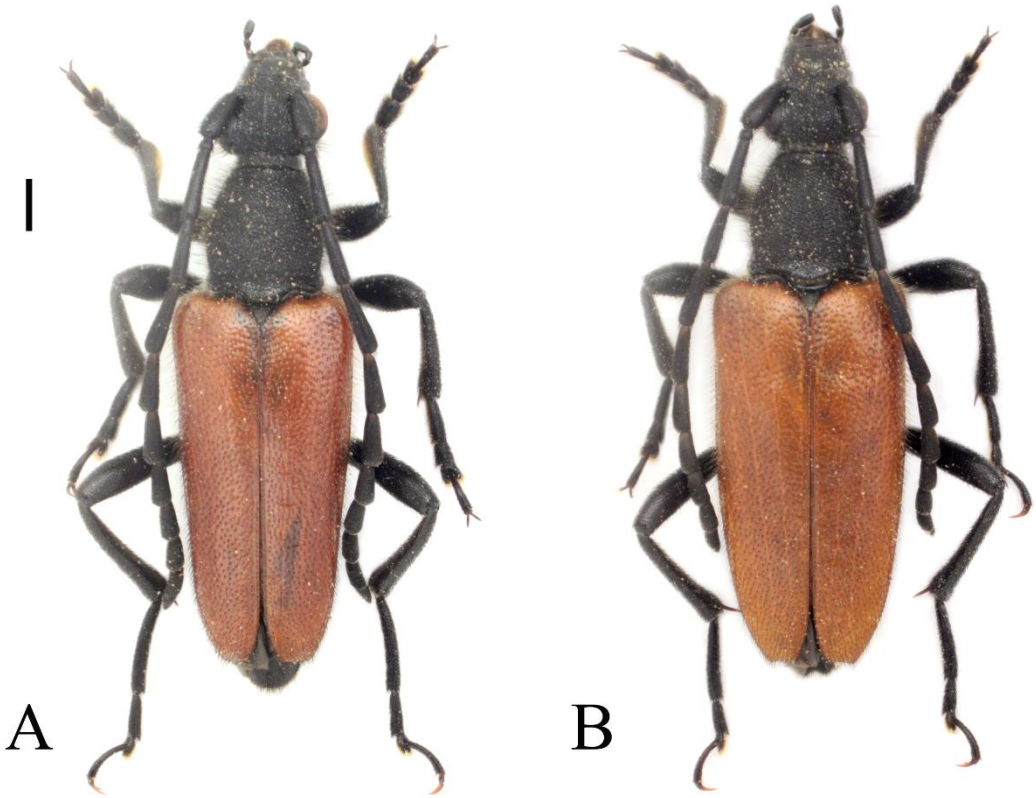

Fig. 4. *Stictoleptura pallens*, Glavan locality, Sakar Mts, 11.v.2024. A – male (BFUS-CER000164); B – female (BFUS-CER000165). Scale bar: 1 mm.

***Stictoleptura* (*Paracorymbia*) *fulva* (De Geer, 1775)**

Literature data: vicinity of Ustrem Vill. (Gradinarov & Petrova 2024b: 120).

New data: SW of Kostur Vill., 41°57.158′N 26°14.817′E, 390 m a.s.l., roadsive vegetation next to vineyards, 18.vii.2017, 1 ♂ (BFUS-CER000167), Y. Petrova leg.; 2 km SE of Topolovgrad, 42°03.644'N 26°20.502'E, 426 m a.s.l., meadows, pine and oak forest, 18.vii.2017, 2 ♂♂ (BFUS-CER000168, BFUS-CER000169), 8 ♀♀ (BFUS-CER000170 – BFUS-CER000177), Y. Petrova leg.; SE of Ustrem Vill., the road to Radovets Vill., 41°58.234′N 26°28.989′E, 213 m a.s.l., roadside verges, 16.vii.2020, 1 ♂ (BFUS-CER000178), 2 ♀♀ (BFUS-CER000179, BFUS-CER000180), on Apiaceae, Y. Petrova leg.; SE of Ustrem Vill., the road to Radovets Vill., 41°58.518′N 26°29.013′E, 203 m a.s.l., meadows, edge of oak forest, 30.vi.2022, 5 ♂♂ (BFUS-CER000181 – BFUS-CER000185), 6 ♀♀ (BFUS-CER000186 – BFUS-CER000191), on Apiaceae, Y. Petrova leg.; the same data, 5 ♂♂ (BFUS-CER000192 – BFUS-CER000196), 4 ♀♀ (BFUS-CER000197 – BFUS-CER000200), on Apiaceae, D. Gradinarov leg.; W of Ustrem Vill., 42°01.377′N 26°26.908′E, 103 m a.s.l., riverine vegetation, alfalfa field boundaries, 29.vi.2022, 1 ♀ (BFUS-CER000201), D. Gradinarov leg.; W of Ustrem Vill., 42°01.324′N 26°27.004′E, 103 m a.s.l., riverine vegetation, agricultural field boundaries,

03.vii.2022, 1 ♂ (BFUS-CER000202), 1 ♀ (BFUS-CER000203), D. Gradinarov leg.; Ustrem Vill., 42°01.339′N 26°27.388′E, 101 m a.s.l., house yard, 23.vi.2023, 1 ♂ (BFUS-CER000204), D. Gradinarov leg.

***Stictoleptura* (*Stictoleptura*) *cordigera cordigera* (Fuessly, 1775)**

New data: SE of Ustrem Vill., the road to Radovets Vill., 41°58.518′N 26°29.013′E, 203 m a.s.l., meadows, edge of oak forest, 30.vi.2022, 2 ♂♂ (BFUS-CER000205, BFUS-CER000206), 1 ♀ (BFUS-CER000207), on Apiaceae, D. Gradinarov leg.; W of Ustrem Vill., 42°01.374′N 26°26.975′E, 104 m a.s.l., riverine vegetation, agricultural field boundaries, 02.vii.2022, 1 ♀ (BFUS-CER000208), on Apiaceae, D. Gradinarov leg.

***Strangalia attenuata* (Linnaeus, 1758)**

New data: SE of Ustrem Vill., the road to Radovets Vill., 41°58.518′N 26°29.013′E, 203 m a.s.l., meadows, edge of oak forest, 30.vi.2022, 1 ♀ (BFUS-CER000209), Y. Petrova leg.; SE of Glavan Vill., 42°01.193′N 26°09.861′E, 647 m a.s.l., mixed forest with oak and black pine, forest glades (Fig. 9 E), 26.vi.2023, 1 ♀ (BFUS-CER000210), D. Gradinarov leg.

***Vadonia unipunctata unipunctata* (Fabricius, 1787)** (Fig. 5)

New data: SW of Hlyabovo Vill., 42°03.120′N 26°13.633′E, 376 m a.s.l., meadows, 17.v.2016, 1 ♀ (BFUS-CER000211), Y. Petrova leg.; 1 km NE of Balgarska Polyana Vill., 42°02.369′N 26°12.534′E, 415 m a.s.l., roadside verges, 26.v.2019, 8 ♂♂ (BFUS-CER000212 – BFUS-CER000219), 1 ♀ (BFUS-CER000220), D. Gradinarov & Y. Petrova leg.; NE of Balgarska Polyana Vill., 42°02.399′N 26°12.569′E, 420 m a.s.l., roadside meadows (Fig. 9 C), 12.v.2024, 1 ♂ (BFUS-CER000221), Y. Petrova leg.; 4 km NE Izvorovo Vill., 41°59.526′N 26°10.866′E, 577 m a.s.l., roadside vegetation, 26.v.2019, 1 ♂ (BFUS-CER000222), 1 ♀ (BFUS-CER000223), D. Gradinarov & Y. Petrova leg.; SE of Glavan Vill., 42°01.821′N 26°08.758′E, 627 m a.s.l., forest glades, oak forest, 19.v.2016, 1 ♂ (BFUS-CER000224), 1 ♀ (BFUS-CER000225), D. Gradinarov & Y. Petrova leg.; 5 km SE of Glavan Vill., 42°01.825′N 26°08.743′E, 620 m a.s.l., forest glades, oak forest, 26.v.2019, 2 ♂♂ (BFUS-CER000226, BFUS-CER000227), 1 ♀ (BFUS-CER000228), Y. Petrova leg.; SE of Glavan Vill., 42°01.787′N 26°08.720′E, 627 m a.s.l., meadows and forest glades, oak forest, 09.vi.2020, 4 ♂♂ (BFUS-CER000229 – BFUS-CER000232), 2 ♀♀ (BFUS-CER000233, BFUS-CER000234), D. Gradinarov leg.; SE of Glavan Vill., 42°01.143′N 26°09.781′E, 646 m a.s.l., dry roadside meadows next to mixed forest with oak and black pine, 26.vi.2023, 2 ♂♂ (BFUS-CER000235, BFUS-CER000236), 3 ♀♀ (BFUS-CER000237 – BFUS-CER000239), D. Gradinarov leg.; the same locality, 11.v.2024, 1 ♂ (BFUS-CER000240), Y. Petrova leg.; W of Ustrem Vill., 42°01.357′N 26°26.900′E, 104 m a.s.l., riverine vegetation, agricultural field boundaries (Fig. 9 B), 01.vii.2022, 1 ♂ (BFUS-CER000241), on Apiaceae, D. Gradinarov leg.; the same locality, 02.vii.2022, 1 ♂ (BFUS-CER000242), D. Gradinarov leg.

Notes: Three subspecies of *V. unipunctata* have been recorded from Bulgaria: *V. unipunctata unipunctata*, *V. unipunctata bulgarica* Vartanis & Resl, 2023 and *V. unipunctata makedonica* Holzschuh, 1989 (Vartanis & Resl 2023, Gradinarov & Petrova 2024a). The population of *V. unipunctata* from Sakar Mountains belongs to the nominative subspecies.

Tribe Rhagiini Kirby, 1837

***Brachyta* (*Fasciobrachyta*) *balcanica* Hampe, 1871**

Literature data: Sakar balkan [= Sakar Mts] (Kantardjieva-Minkova 1957: 542, as *Evodinus balcanicus* Hampe); Sakar Mts (Rapuzzi *et al.* 2020: 904) [without exact localities].

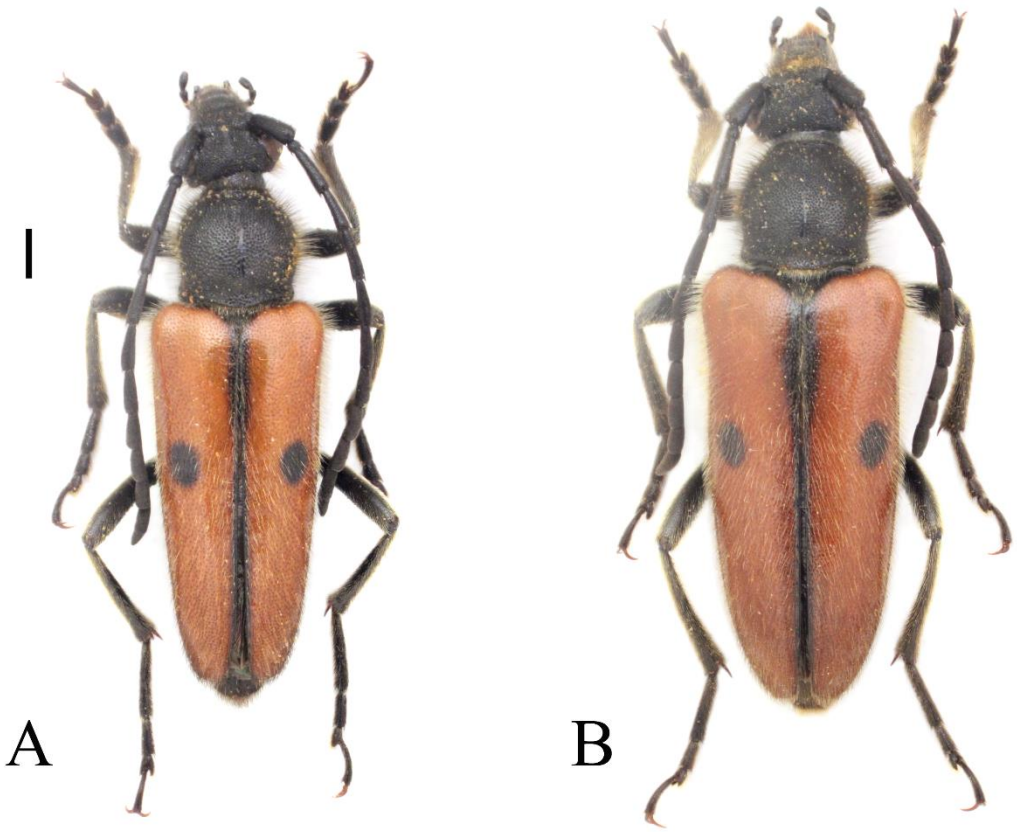

Fig. 5. *Vadonia unipunctata unipunctata*, Glavan locality, Sakar Mts, 09.vi.2020. A – male (BFUS-CER000230); B – female (BFUS-CER000234). Scale bar: 1 mm.

***Cortodera differens magdae* Danilevsky, 2012** (Fig. 6)

Literature data: Sakar (Kantardjieva-Minkova 1957: 544, as *Cortodera discolor* Fairm.) [without exact locality].

New data: 5 km SE of Glavan Vill., 42°01.825′N 26°08.743′E, 620 m a.s.l., forest glades, oak forest, 26.v.2019, 5 ♂♂ (BFUS-CER000243 – BFUS-CER000247), 3 ♀♀ (BFUS-CER000248 – BFUS-CER000250), on *Centaurea* sp., Y. Petrova leg.; S of Ustrem Vill., the road to Radovets Vill., 42°00.782′N 26°27.879′E, 153 m a.s.l., xerothermic vegetation with *Paliurus spina-christi* Mill., hillside (Fig. 18 B), 01.v.2021, 2 ♂♂ (BFUS-CER000251, BFUS-CER000252), on *Centaurea* sp., Y. Petrova leg.; SE of Glavan Vill., 42°01.193′N 26°09.861′E, 647 m a.s.l., mixed forest with oak and black pine, forest glades (Fig. 9 E), 24.v.2023, 2 ♂♂ (BFUS-CER000253, BFUS-CER000254), 1 ♀ (BFUS-CER000255), D. Gradinarov & Y. Petrova leg.

Notes: This taxon has been reported several times from Bulgaria as *C. discolor* Fairmaire 1866 (Kantardjieva-Minkova 1957, Angelov 1995, Georgiev *et al.* 2005a, Migliaccio *et al.* 2007). According to Georgiev *et al.* (2005a) the species is very rare in Bulgaria, with known localities from Sakar Mts, Burgas and Asenovgrad. The Asenovgrad locality was not included in the list of known localities for this species in Bulgaria in the review of rare species of Migliaccio *et al.* (2007). *Cortodera discolor* var. *differens* Pic, 1898, was elevated to species rank by Özdikmen & Turgut (2008) as *C. differens* Pic, 1898 with distribution in Greece and Türkiye. In 2010, *C. differens* was recorded from Romanian Dobrudzha (Dascălu 2010). Later Danilevsky (2012) describes the subspecies *C. differens magdae* Danilevsky, 2012 for the populations of the species from Romania, Bulgaria and European Türkiye based on materials from Slanchev Bryag, Black Sea Coast of Bulgaria (type locality) and

European Türkiye. This taxon does not seem to be rare in Sakar Mountains, being commonly found on inflorescences of *Centaurea* spp. (Asteraceae).

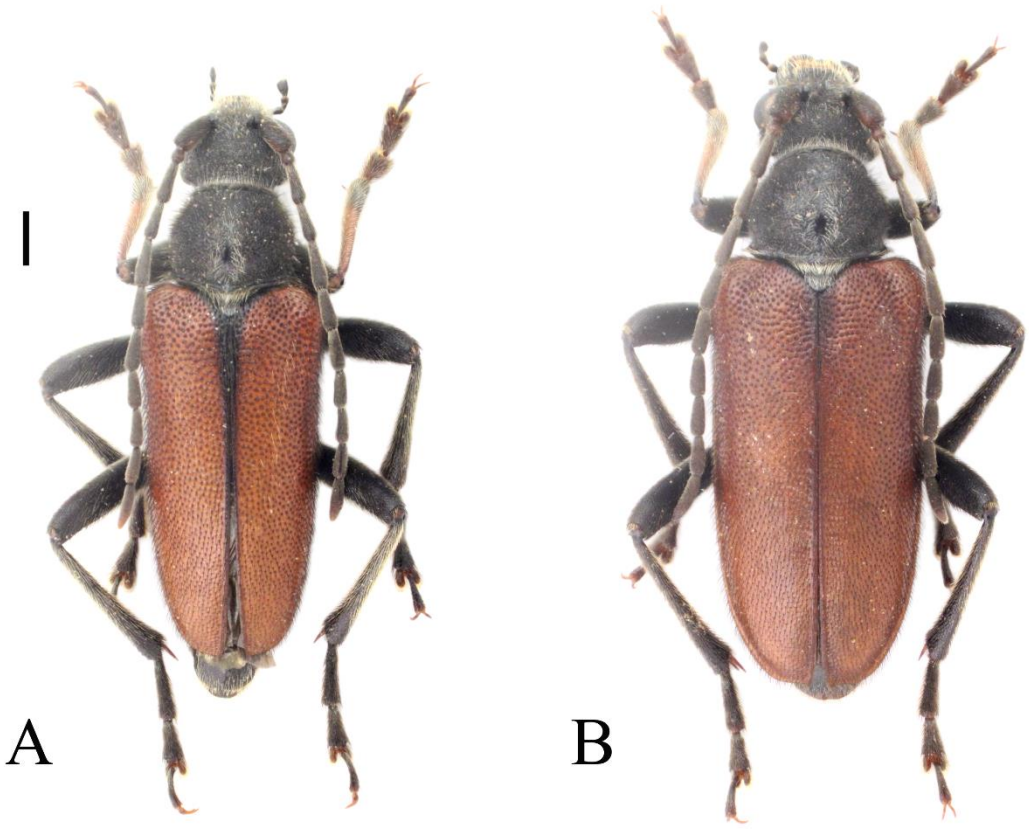

Fig. 6. *Cortodera differens magdae* from Sakar Mts. A – male, the road Ustrem – Radovets, 01.v.2021 (BFUS-CER000252); B – female, Glavan locality, 26.v.2019 (BFUS-CER000248). Scale bar: 1 mm.

***Cortodera flavimana flavimana* (Waltl, 1838)** (Fig. 7; Fig. 11 A)

Literature data: Topolovgrad (Siering *et al.* 2013: 235).

New data: W of Ustrem Vill., 42°01.453′N 26°27.053′E, 108 m a.s.l., riverine vegetation (Fig. 9 A), 01.v.2021, 7 ♂♂ (BFUS-CER000256 – BFUS-CER000262), 4 ♀♀ (BFUS-CER000263 – BFUS-CER000266), on *Ranunculus* sp., D. Gradinarov leg.; W of Ustrem Vill., 42°01.447′N 26°27.085′E, 96 m a.s.l., riverine vegetation, 24.v.2023, 3 ♂♂ (BFUS-CER000267 – BFUS-CER000269), on *Ranunculus* sp., D. Gradinarov leg.; SW of Balgarska Polyana Vill., 42°01.350′N 26°11.582′E, 478 m a.s.l., roadside verges, 06.v.2021, 1 ♂ (BFUS-CER000270), on *Ranunculus* sp., Y. Petrova leg.; W of Branitsa Vill., 42°00.466′N 26°04.582′E, 386 m a.s.l., dirt road, meadows, 20.v.2023, 1 ♂ (BFUS-CER000271), on *Ranunculus* sp., Y. Petrova leg.; SW of Kostur Vill., 41°57.199′N 26°15.032′E, 404 m a.s.l., roadside vegetation, oak forest, 26.v.2023, 1 ♂ (BFUS-CER000272), on *Ranunculus* sp., Y. Petrova leg.

Notes: In Sakar Mountains, *C. flavimana flavimana* is often found in habitats with higher humidity, on flowers of *Ranunculus* spp.

***Dinoptera collaris* (Linnaeus, 1758)** (Fig. 11 B)

Literature data: near Topolovgrad (Siering *et al.* 2013: 235).

New data: SW of Kostur Vill., 41°58.018′N 26°16.824′E, 437 m a.s.l., meadows, oak forest, 18.v.2016, 1 ♂ (BFUS-CER000273), D. Gradinarov & Y. Petrova leg.; SE of Glavan

Vill., 42°01.865′N 26°08.765′E, 630 m a.s.l., forest glades, oak forest, 09.vi.2020, 1 ♂ (BFUS-CER000274), D. Gradinarov & Y. Petrova leg.; W of Ustrem Vill., 42°01.434′N 26°27.096′E, 103 m a.s.l., meadows and shrubs, 04.v.2021, 2 ♂♂ (BFUS-CER000275, BFUS-CER000276), 1 ♀ (BFUS-CER000277), on *Crataegus monogyna* Jacq., D. Gradinarov leg.; W of Ustrem Vill., 42°01.400′N 26°27.152′E, 93 m a.s.l., riverine vegetation, agricultural field boundaries, 08.v.2024, 1 ♀ (BFUS-CER000278), on grasses, D. Gradinarov leg.; NE of Balgarska Polyana Vill., 42°02.399′N 26°12.569′E, 420 m a.s.l., roadside meadows (Fig. 9 C), 12.v.2024, 2 ♂♂ (BFUS-CER000279, BFUS-CER000280), Y. Petrova leg.

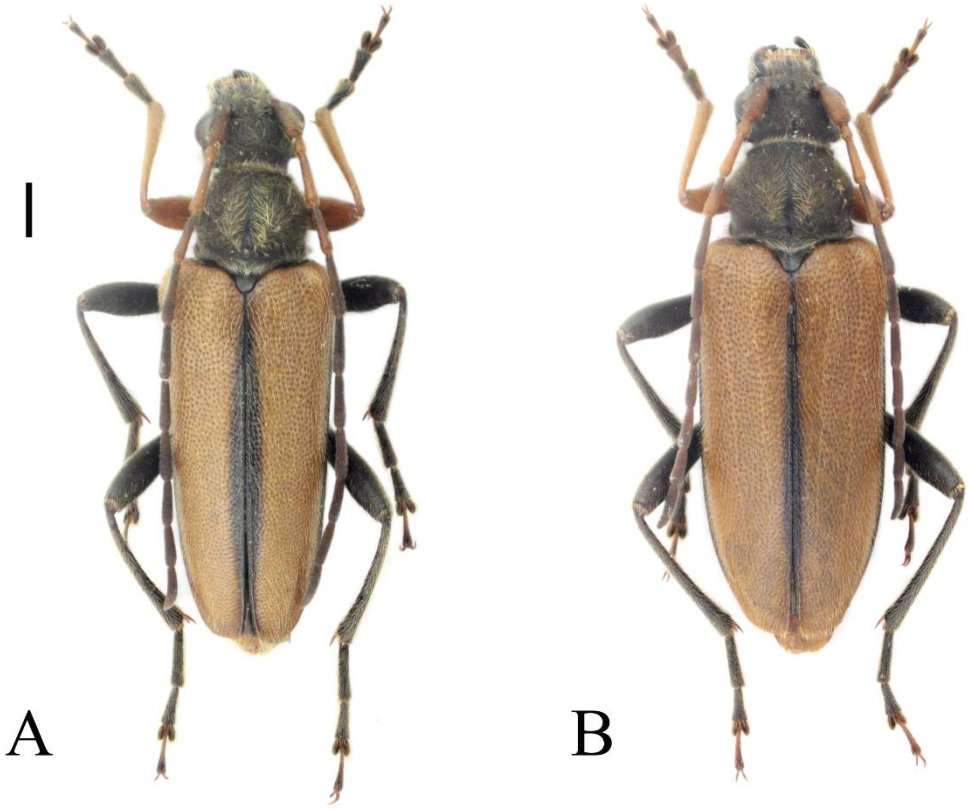

Fig. 7. *Cortodera flavimana flavimana*, Ustrem locality, Sakar Mts, 01.v.2021. A – male (BFUS-CER000260); B – female (BFUS-CER000263). Scale bar: 1 mm.

Subfamily Spondylidinae Audinet-Serville, 1832

Tribe Asemini J. Thomson, 1861

***Arhopalus ferus* (Mulsant, 1839)**

Literature data: South-east of Topolovgrad; Pastrogor Vill.; Balgarska polyana Vill. (Doychev & Georgiev 2004: 169, as *Arhopalus ferus* (Pic, 1891) [sic!]).

New data: S of Topolovgrad, in front of the "Sakar" hotel, 42°04.390'N 26°19.833'E, 428 m a.s.l., near a pine forest, after rain, 18.vii.2017, 1 ♂ (BFUS-CER000281), Y. Petrova leg.; NW of Ustrem Vill., 42°01.473′N 26°26.756′E, 120 m a.s.l., edge of pine forest, 02.vii.2022 – 03.ix.2022, 1 ♀ (BFUS-CER000282), pitfall traps, D. Gradinarov leg.

***Arhopalus rusticus rusticus* (Linnaeus, 1758)**

New data: 1,5 km NE of Balgarska Polyana Vill., 42°02.423′N 26°12.666′E, 420 m a.s.l., roadside verges, 17.vii.2017, 1 ♀ (BFUS-CER000283), Y. Petrova leg.; SE of Ustrem

Vill., the road to Radovets Vill., 41°58.353′N 26°28.995′E, 212 m a.s.l., near a cutting area, mixed forest, 30.vi.2022, 1 ♂ (BFUS-CER000284), under peeled pine bark, found dead, D. Gradinarov & Y. Petrova leg.

Subfamily Cerambycinae Latreille, 1802

Tribe Callichromatini Swainson & Shuckard, 1840

***Aromia moschata moschata* (Linnaeus, 1758)**

New data: W of Ustrem Vill., 42°01.406′N 26°27.165′E, 93 m a.s.l., riverine vegetation, 30.vi.2022, 1 ♀ (BFUS-CER000285), on a trunk of *Salix* sp., D. Gradinarov leg.

Tribe Callidiini Kirby, 1837

***Phymatodes* (*Phymatodes*) *testaceus* (Linnaeus, 1758)**

New data: Ustrem Vill., 42°01.334'N 26°27.383'E, 95 m a.s.l., house yard, 23.vi.2023, 1 ♀ (BFUS-CER000286), at light (white & UV), Y. Petrova & D. Gradinarov leg.; the same locality, 11.v.2024, 1 ♂ (BFUS-CER000287), at light, D. Gradinarov leg.; Ustrem Vill., 42°01.342'N 26°27.397'E, 95 m a.s.l., on the street, 07.v.2024, 1 ♀ (BFUS-CER000288), found dead, D. Gradinarov & Y. Petrova leg.

***Pyrrhidium sanguineum* (Linnaeus, 1758)**

New data: Ustrem Vill., 42°01.339′N 26°27.388′E, 101 m a.s.l., house yard, 02.v.2021, 1 ♀ (BFUS-CER000289), D. Gradinarov leg.; the same locality, 04.v.2021, 1 ♀ (BFUS-CER000290), D. Gradinarov leg.

Tribe Cerambycini Latreille, 1802

***Cerambyx* (*Cerambyx*) *cerdo cerdo* Linnaeus, 1758**

Literature data: South of Balgarska polyana Vill. (Doychev *et al.* 2017: 515).

New data: W of Branitsa Vill., 42°00.510′N 26°04.634′E, 391 m a.s.l., oak forest (Fig. 10 C), 20.vii.2021 – 25.vii.2021, 1 ♂ (BFUS-CER000291), 1 ♀ (BFUS-CER000292), wine trap, D. Gradinarov & Y. Petrova leg.; W of Branitsa Vill., 42°00.509′N 26°04.623′E, 396 m a.s.l., oak forest (Fig. 10 C), 20.vii.2021 – 25.vii.2021, 2 ♂♂ (BFUS-CER000293, BFUS-CER000294), wine trap, D. Gradinarov & Y. Petrova leg.

Notes: The species *Cerambyx cerdo* is included in Annexes II and IV of the Directive 92/43/EEC on the conservation of natural habitats and of wild fauna and flora (Council of Europe 1992).

***Cerambyx* (*Cerambyx*) *nodulosus nodulosus* Germar, 1817**

New data: SE of Ustrem Vill., the road to Radovets Vill., 41°58.419′N 26°28.982′E, 215 m a.s.l., dirt road, mixed deciduous forest with oak, 12.vii.2020 – 16.vii.2020, 1 ♂ (BFUS-CER000295), wine trap, D. Gradinarov & Y. Petrova leg.

***Cerambyx* (*Cerambyx*) *welensii welensii* (Küster, 1845)**

New data: W of Branitsa Vill., 42°00.509′N 26°04.623′E, 396 m a.s.l., oak forest (Fig. 10 C), 20.vii.2021 – 25.vii.2021, 1 ♀ (BFUS-CER000296), wine trap, D. Gradinarov & Y. Petrova leg.

***_Cerambyx_ (_Microcerambyx_) _scopolii scopolii_ Fuessly, 1775**

New data: SE of Glavan Vill., 42°01.821′N 26°08.758′E, 627 m a.s.l., forest glades, oak forest, 19.v.2016, 1 ♂ (BFUS-CER000297), Y. Petrova leg.; W of Ustrem Vill., 42°01.453′N 26°27.058′E, 100 m a.s.l., riverine meadows, walnut trees (*Juglans regia* L.), 03.v.2021, 1 ♂ (BFUS-CER000298), on grasses, D. Gradinarov leg.; W of Ustrem Vill., 42°01.434′N 26°27.096′E, 103 m a.s.l., meadows and shrubs, 04.v.2021, 2 ♂♂ (BFUS-CER000299, BFUS-CER000300), on *Crataegus monogyna* Jacq., D. Gradinarov leg.

Tribe Clytini Mulsant, 1839

***_Chlorophorus figuratus_ (Scopoli, 1763)**

New data: SW of Kostur Vill., 41°57.206′N 26°15.051′E, 405 m a.s.l., forest glades, oak forest, 18.v.2016, 1 ♂ (BFUS-CER000301), D. Gradinarov & Y. Petrova leg.; the same locality, 19.v.2016, 1 ♂ (BFUS-CER000302), D. Gradinarov & Y. Petrova leg.; SW of Kostur Vill., 41°57.199′N 26°15.032′E, 404 m a.s.l., roadside vegetation, oak forest, 26.v.2023, 1 ♂ (BFUS-CER000303), D. Gradinarov leg.; the same data, 1 ♂ (BFUS-CER000304), D. Gradinarov & Y. Petrova leg.; SE of Glavan Vill., 42°01.865′N 26°08.765′E, 630 m a.s.l., forest glades, oak forest, 09.vi.2020, 2 ♂♂ (BFUS-CER000305, BFUS-CER000306), 1 ♀ (BFUS-CER000307), D. Gradinarov & Y. Petrova leg.; the same data, 1 ♂ (BFUS-CER000308), Y. Petrova leg.

***_Chlorophorus sartor_ (O. F. Müller, 1766)**

New data: SE of Ustrem Vill., the road to Radovets Vill., 41°58.452′N 26°28.994′E, 207 m a.s.l., meadows, mixed deciduous forest with oak, 12.vii.2020, 1 ♂ (BFUS-CER000309), Y. Petrova leg.; SE of Ustrem Vill., the road to Radovets Vill., 41°58.563′N 26°29.026′E, 203 m a.s.l., meadows, edge of oak forest (Fig. 9 D), 23.vii.2021, 1 ♀ (BFUS-CER000310), D. Gradinarov leg.; the same data, 1 ♀ (BFUS-CER000311), Y. Petrova leg.; NW of Ustrem Vill., 42°01.435′N 26°26.882′E, 107 m a.s.l., meadows, 14.vii.2020, 3 ♀♀ (BFUS-CER000312 – BFUS-CER000314), on Apiaceae, D. Gradinarov leg.; W of Ustrem Vill., 42°01.324′N 26°27.004′E, 103 m a.s.l., riverine vegetation, agricultural field boundaries, 03.vii.2022, 1 ♂ (BFUS-CER000315), D. Gradinarov leg.; Maritsa Riv. Valley, NW of Rogozinovo Vill., left bank of Maritsa Riv., 41°55.615′N 25°56.098′E, 75 m a.s.l., riverine vegetation (Fig. 10 A), 20.vii.2021, 1 ♀ (BFUS-CER000316), on Apiaceae, D. Gradinarov leg.

***_Chlorophorus varius varius_ (O. F. Müller, 1766)**

New data: SW of Kostur Vill., 41°57.158′N 26°14.817′E, 390 m a.s.l., roadsive vegetation next to vineyards, 18.vii.2017, 1 ♂ (BFUS-CER000317), 1 ♀ (BFUS-CER000318), Y. Petrova leg.; 2 km SE of Topolovgrad, 42°03.644'N 26°20.502'E, 426 m a.s.l., meadows, pine and oak forest, 18.vii.2017, 1 ♂ (BFUS-CER000319), Y. Petrova leg.; S of Topolovgrad, 41°59.823'N 26°19.483'E, 778 m a.s.l., meadows, deciduous forest, 27.vii.2024, 1 ♂ (BFUS-CER000320), on *Eryngium* sp., D. Gradinarov leg.; Ustrem Vill., 42°01.342′N 26°27.397′E, 101 m a.s.l., street side, ruderal vegetation, 11.vii.2020, 4 ♂♂ (BFUS-CER000321 – BFUS-CER000324), on Apiaceae, D. Gradinarov leg.; NW of Ustrem Vill., 42°01.435′N 26°26.882′E, 107 m a.s.l., meadows, 14.vii.2020, 4 ♂♂ (BFUS-CER000325 – BFUS-CER000328), on Apiaceae, D. Gradinarov leg.; the same locality, 22.vii.2021, 2 ♂♂ (BFUS-CER000329 – BFUS-CER000330), on Apiaceae, D. Gradinarov leg.; SE of Ustrem Vill., the road to Radovets Vill., 41°58.452′N 26°28.994′E, 207 m a.s.l., meadows, mixed deciduous forest with oak, 12.vii.2020, 1 ♂ (BFUS-CER000331), Y. Petrova leg.; SE of Ustrem Vill., the road to Radovets Vill., 41°58.563′N 26°29.026′E, 203 m a.s.l., meadows, edge of oak forest (Fig. 9 D), 23.vii.2021, 1 ♂ (BFUS-CER000332), 2 ♀♀ (BFUS-CER000333, BFUS-CER000334), on Apiaceae, D. Gradinarov leg.; the same data, 2 ♂♂ (BFUS-CER000335, BFUS-CER000336),

2 ♀♀ (BFUS-CER000337, BFUS-CER000338), on Apiaceae, Y. Petrova leg.; SE of Ustrem Vill., the road to Radovets Vill., 41°58.518′N 26°29.013′E, 203 m a.s.l., meadows, edge of oak forest, 30.vi.2022, 2 ♀♀ (BFUS-CER000339, BFUS-CER000340), D. Gradinarov leg.; SW of Balgarska Polyana Vill., 42°01.335′N 26°11.535′E, 485 m a.s.l., meadows, wild plum trees, 11.vii.2020, 1 ♂ (BFUS-CER000341), on Apiaceae, D. Gradinarov leg.; SE of Knyazhevo Vill., 42°06.017′N 26°30.362′E, 102 m a.s.l., dirt road, riverine vegetation and xerothermic grasslands (Fig. 18 C), 02.vii.2022, 1 ♂ (BFUS-CER000342), Y. Petrova leg.; W of Branitsa Vill., 42°00.466′N 26°04.582′E, 386 m a.s.l., dirt road, meadows, 23.vii.2023, 1 ♀ (BFUS-CER000343), on Apiaceae, Y. Petrova leg.

***Clytus* (*Clytus*) *rhamni temesiensis* (Germar, 1824)**

New data: Planinovo Vill., 41°57.493′N 26°22.783′E, 394 m a.s.l., 07.vi.2020, 1 ♀ (BFUS-CER000344), Y. Petrova leg.; SW of Ustrem Vill., 42°00.949′N 26°27.022′E, 154 m a.s.l., dry meadows, 07.vi.2020, 1 ♀ (BFUS-CER000345), D. Gradinarov leg.; SE of Ustrem Vill., the road to Radovets Vill., 41°59.698′N 26°28.570′E, 197 m a.s.l., roadside vegetation, 08.vi.2020, 2 ♂♂ (BFUS-CER000346, BFUS-CER000347), D. Gradinarov & Y. Petrova leg.; SE of Glavan Vill., 42°01.865′N 26°08.765′E, 630 m a.s.l., forest glades, oak forest, 09.vi.2020, 4 ♂♂ (BFUS-CER000348 – BFUS-CER000351), 2 ♀♀ (BFUS-CER000352, BFUS-CER000353), D. Gradinarov & Y. Petrova leg.; the same data, 2 ♂♂ (BFUS-CER000354, BFUS-CER000355), 1 ♀ (BFUS-CER000356), Y. Petrova leg.; SE of Glavan Vill., 42°01.787′N 26°08.720′E, 627 m a.s.l., meadows and forest glades, oak forest, 09.vi.2020, 1 ♂ (BFUS-CER000357), D. Gradinarov leg.; SE of Glavan Vill., 42°01.193′N 26°09.861′E, 647 m a.s.l., mixed forest with oak and black pine, forest glades (Fig. 9 E), 26.vi.2023, 3 ♂♂ (BFUS-CER000358 – BFUS-CER000360), 1 ♀ (BFUS-CER000361), Y. Petrova leg.; the same data, 1 ♀ (BFUS-CER000362), D. Gradinarov leg.; SW of Kostur Vill., 41°57.192′N 26°15.080′E, 399 m a.s.l., roadside vegetation, oak forest, 09.vi.2020, 1 ♂ (BFUS-CER000363), 4 ♀♀ (BFUS-CER000364 – BFUS-CER000367), D. Gradinarov & Y. Petrova leg.; SW of Kolarovo Vill., 41°57.983'N 26°01.063'E, 190 m a.s.l., roadside vegetation, 11.v.2024, 1 ♂ (BFUS-CER000368), 1 ♀ (BFUS-CER000369), on Rosa sp., Y. Petrova leg.; N of Yerusalimovo Vill., 41°54.303′N 26°06.074′E, 174 m a.s.l., dirt road, xerothermic grasslands, 11.v.2024, 1 ♂ (BFUS-CER000370), Y. Petrova leg.

***Echinocerus floralis aulicus* (Laicharting, 1784)** (Fig. 8; Fig. 11 C)

Literature data: South of Pusstrogor Vill. [= Pastrogor Vill.], East of Knyazhevo Vill. (Lazarev 2022: 206); vicinity of Ustrem Vill. (Gradinarov & Petrova 2024b: 120, as *Echinocerus floralis* (Pallas, 1773)).

New data: SW of Ustrem Vill., 42°00.949′N 26°27.022′E, 154 m a.s.l., dry meadows, 07.vi.2020, 3 ♀♀ (BFUS-CER000371 – BFUS-CER000373), D. Gradinarov leg.; W of Ustrem Vill., 42°01.449′N 26°27.037′E, 102 m a.s.l., riverine meadows, 08.vi.2020, 4 ♀♀ (BFUS-CER000374 – BFUS-CER000377), D. Gradinarov leg.; W of Ustrem Vill., 42°01.435′N 26°26.882′E, 107 m a.s.l., meadows, 14.vii.2020, 2 ♀♀ (BFUS-CER000378, BFUS-CER000379), on Apiaceae, D. Gradinarov leg.; W of Ustrem Vill., 42°01.377′N 26°26.908′E, 103 m a.s.l., riverine vegetation, alfalfa field boundaries, 29.vi.2022, 7 ♂♂ (BFUS-CER000380 – BFUS-CER000386), 16 ♀♀ (BFUS-CER000387 – BFUS-CER000402), D. Gradinarov leg.; W of Ustrem Vill., 42°01.434′N 26°26.828′E, 107 m a.s.l., meadows, 23.vi.2023, 1 ♂ (BFUS-CER000403), D. Gradinarov leg.; SE of Ustrem Vill., the road to Radovets Vill., 41°59.698′N 26°28.570′E, 197 m a.s.l., roadside vegetation, 08.vi.2020, 2 ♂♂ (BFUS-CER000404, BFUS-CER000405), D. Gradinarov & Y. Petrova leg.; SE of Ustrem Vill., the road to Radovets Vill., 41°59.614′N 26°28.493′E, 188 m a.s.l., meadows, 08.vi.2020, 1 ♂ (BFUS-CER000406), 1 ♀ (BFUS-CER000407), D. Gradinarov & Y. Petrova leg.; SE of Ustrem Vill., the road to Radovets Vill., 41°58.518′N 26°29.013′E, 203 m a.s.l., meadows, edge of

oak forest, 30.vi.2022, 2 ♂♂ (BFUS-CER000408, BFUS-CER000409), 2 ♀♀ (BFUS-CER000410, BFUS-CER000411), Y. Petrova leg.; NE of Planinovo Vill., 41°57.707′N 26°22.943′E, 414 m a.s.l., dirt road, meadows, 07.vi.2020, 3 ♂♂ (BFUS-CER000412 – BFUS-CER000414), 1 ♀ (BFUS-CER000415), Y. Petrova leg.; SE of Knyazhevo Vill., 42°06.017′N 26°30.362′E, 102 m a.s.l., dirt road, riverine vegetation and xerothermic grasslands (Fig. 18 C), 28.vi.2022, 1 ♂ (BFUS-CER000416), Y. Petrova leg.; E of Mramor Vill., 42°02.647′N 26°25.437′E, 190 m a.s.l., roadside vegetation, near fields with lavender, 21.vi.2023, 1 ♀ (BFUS-CER000417), D. Gradinarov leg.; SW of Sinapovo Vill., 42°06.900′N 26°24.767′E, 221 m a.s.l., meadows, edge of oak forest, 22.vi.2023, 1 ♂ (BFUS-CER000418), D. Gradinarov & Y. Petrova leg.; SW of Kostur Vill., 41°57.192′N 26°15.080′E, 399 m a.s.l., roadside vegetation, oak forest, 09.vi.2020, 1 ♂ (BFUS-CER000419), 2 ♀♀ (BFUS-CER000420, BFUS-CER000421), D. Gradinarov & Y. Petrova leg.

Notes: According to Lazarev (2022), the nominative subspecies of *E. floralis* (Pallas, 1773) is distributed along steppe zone of Ukraine, Russia and Kazakhstan. All known populations of the species in Bulgaria belong to the subspecies *E. floralis aulicus* (Lazarev 2022).

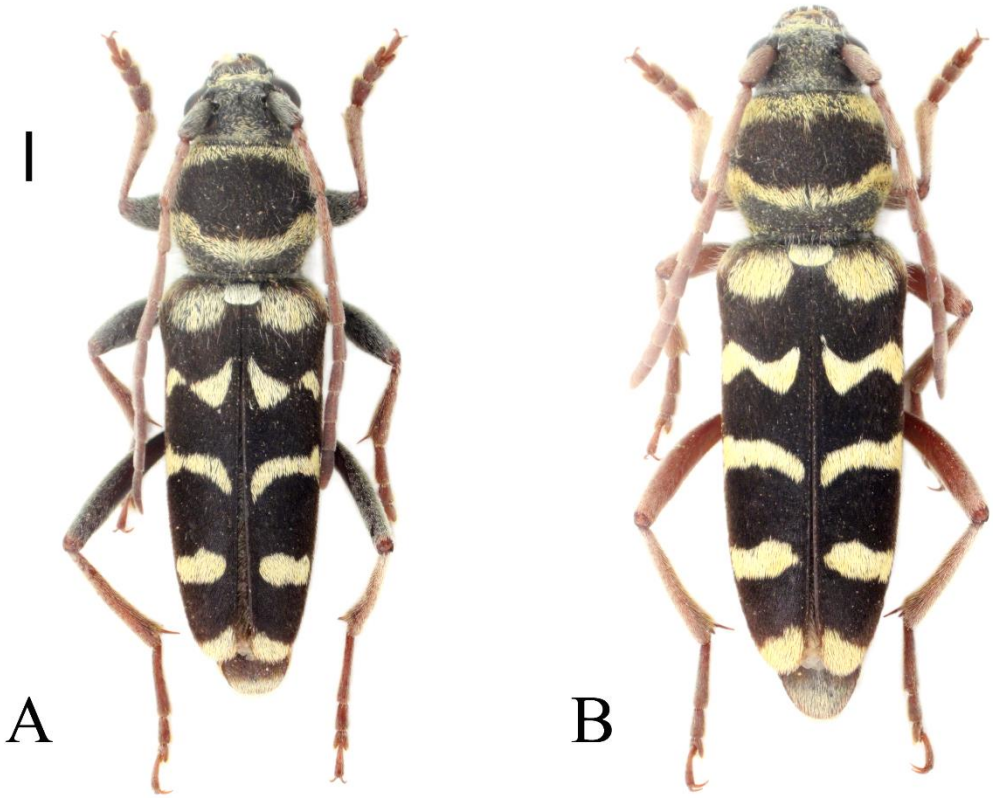

Fig. 8. *Echinocerus floralis aulicus*, Ustrem locality, Sakar Mts. A – male, 29.vi.2022 (BFUS-CER000384); B – female, 14.vii.2020 (BFUS-CER000378). Scale bar: 1 mm.

***Plagionotus arcuatus arcuatus* (Linnaeus, 1758)**

New data: Ustrem Vill., 42°01.369′N 26°27.385′E, 94 m a.s.l., street side, 07.vi.2020, 1 ♂ (BFUS-CER000422), on oak firewood, D. Gradinarov leg.

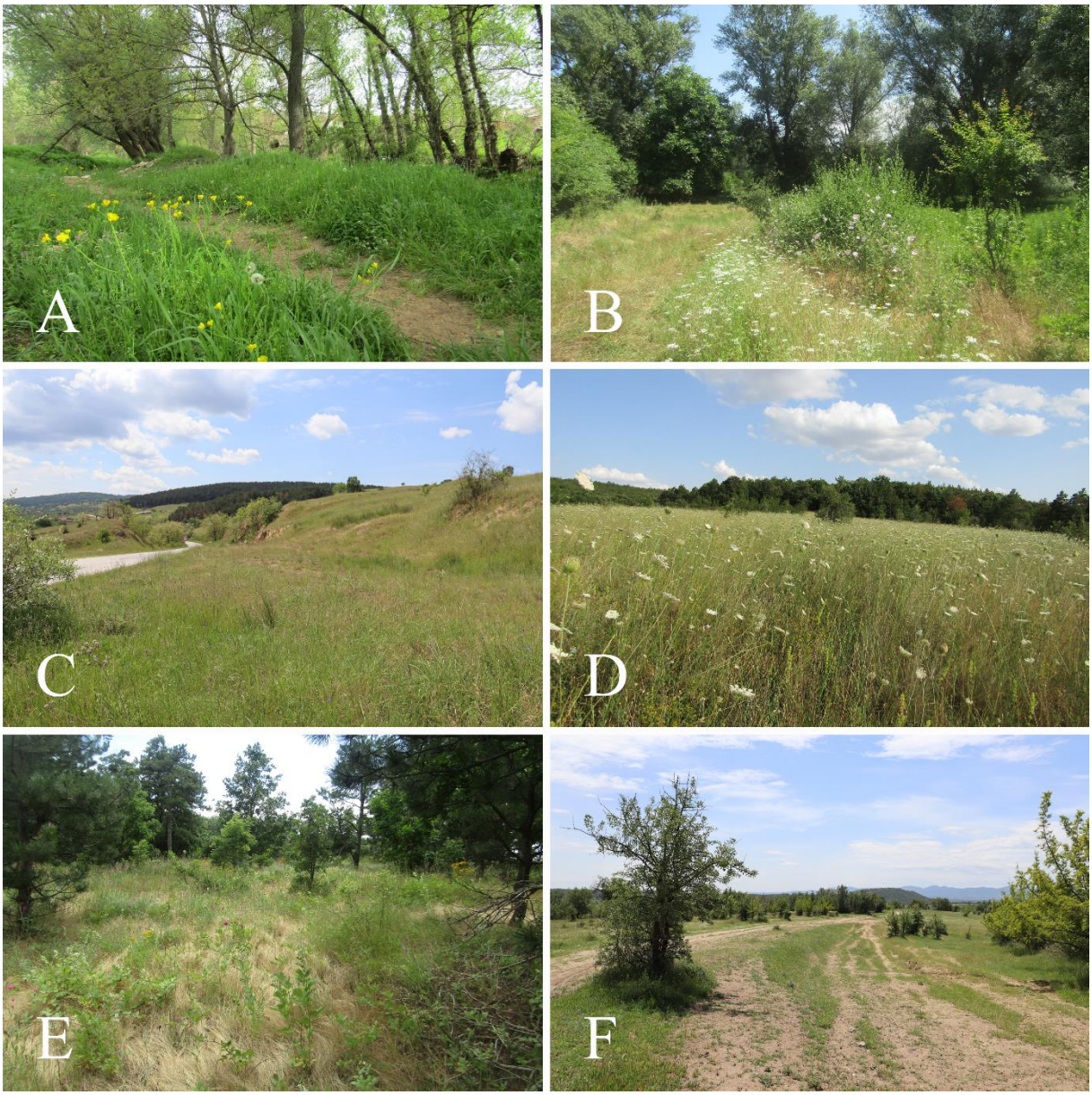

Fig. 9. Habitats of some species of Cerambycidae in Sakar Mts. A – riverine vegetation W of Ustrem Village, 01.v.2021, habitat of *Cortodera flavimana*; B – riverine vegetation W of Ustrem Village, 01.vii.2022, habitat of *Anastrangalia dubia*, *Stenurella septempunctata*, *Vadonia unipunctata*, *Agapanthia villosoviridescens gazanchidisi* and *Phytoecia affinis tuerki*; C – roadside meadows NE of Balgarska Polyana Village, 12.v.2024, habitat of *Pachytodes erraticus*, *V. unipunctata*, *A. maculicornis* e.g.; D – meadows SE of Ustrem Vill., the road to Radovets Vill., 23.vii.2021, habitat of *S. bifasciata*, *Chlorophorus sartor* and *Ch. varius*; E – mixed forest with oak and black pine SE of Glavan Village, 26.vi.2023, habitat of *A. dubia*, *Rutpela maculata*, *S. melanura samai*, *Strangalia attenuata*, *C. differens magdae*, *Calamobius filum* e.g.; F – roadside vegetation SW of Yerusalimovo Village, 11.v.2024, habitat of *Callimus femoratus* and *Ph. pubescens*.

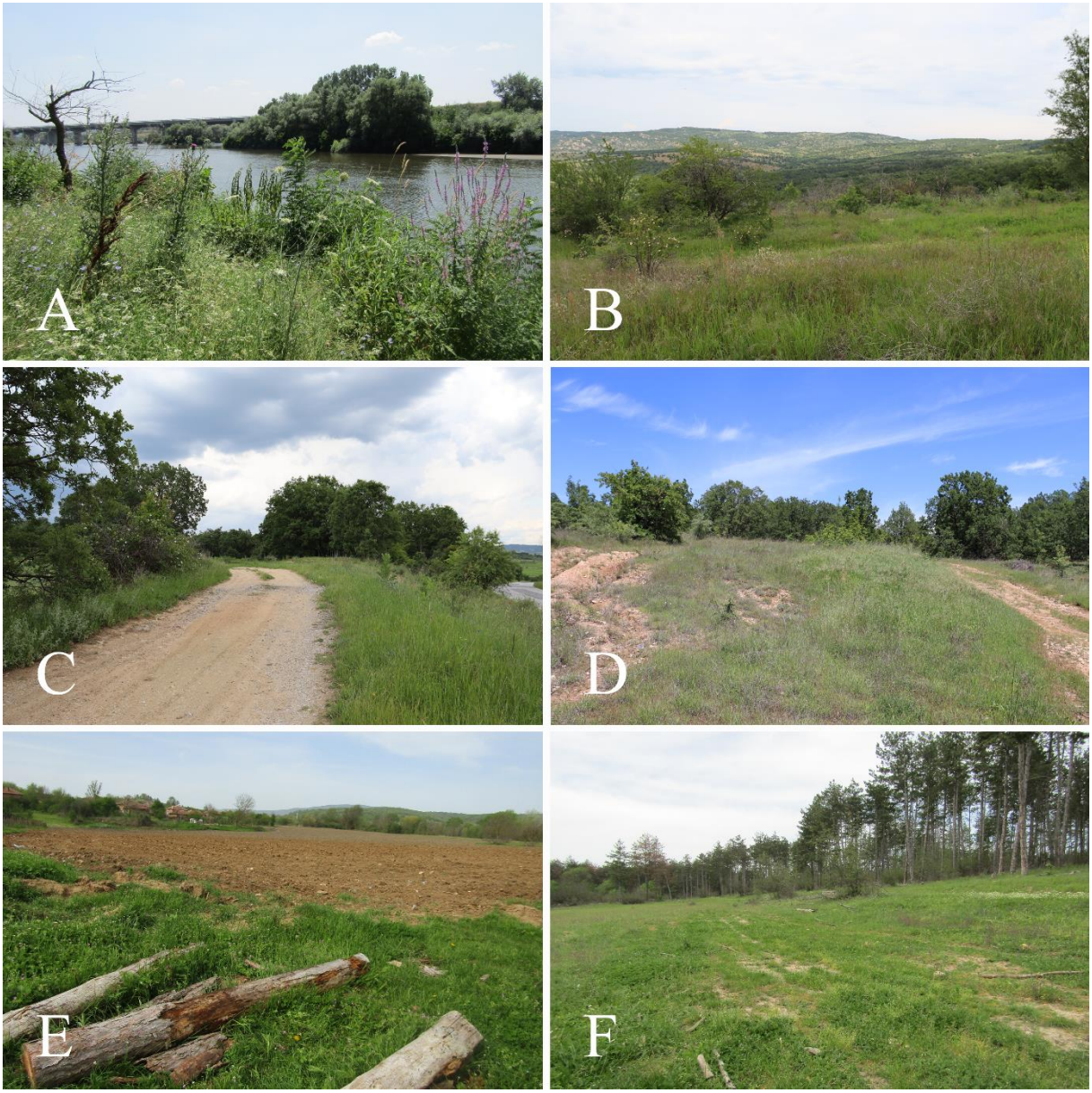

Fig. 10. Habitats of some species of Cerambycidae in Sakar Mts. A – riverine vegetation NW of Rogozinovo Village, left bank of Maritsa River, 20.vii.2021, habitat of *Chlorophorus sartor* and *Stenopterus rufus*; B – meadows and shrubs NE of Izvorovo Village, 08.v.2024, habitat of *Stictoleptura pallens*, *S. rufus*, *Callimoxys gracilis*, *Agapanthia cardui*, *A. boeberi cynarae*, *A. violacea* and *Phytoecia pubescens*; C – edge of oak forest W of Branitsa Village, 12.v.2024, habitat of *Cerambyx cerdo* and *C. welensii*; D – xerothermic grasslands SE of Kolarovo Village, 11.v.2024, habitat of *Callimus femoratus*, *Calamobius filum* and *Dorcadion aethiops*; E – agricultural field boundaries W of Ustrem Village, 01.v.2021, habitat of *D. tauricum* and *Neodorcadion bilineatum*; F – meadows NW of Ustrem Village, 03.v.2021, habitat of *D. pedestre*.

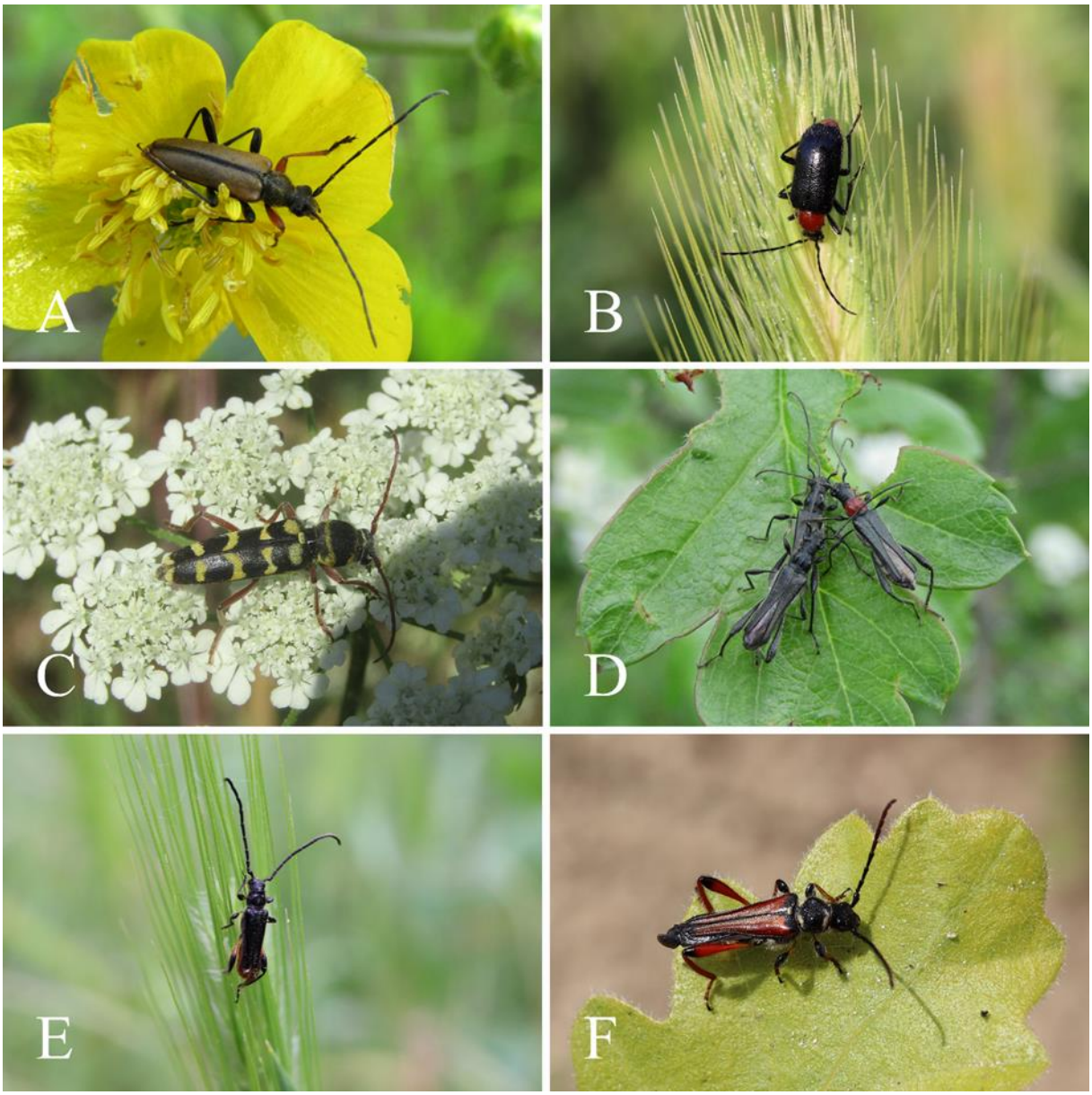

Fig. 11. Species of Cerambycidae (Lepturinae, Cerambycinae) in natural environment in Sakar Mts. A – *Cortodera flavimana flavimana* on *Ranunculus* sp., W of Ustrem Village, 01.v.2021; B –*Dinoptera collaris* on *Hordeum* sp., W of Ustrem Village, 08.v.2024; C – *Echinocerus floralis aulicus* on *Torilis arvensis* (Huds.) Link, W of Ustrem Village, 03.vii.2022; D – *Callimoxys gracilis* on *Crataegus monogyna,* SE of Ustrem Village, 04.v.2021; E – *Callimus femoratus* on *Hordeum* sp., Ustrem Village, 08.v.2024; F – *Stenopterus rufus* on sapling of *Quercus* sp., NE of Izvorovo Village, 08.v.2024.

Tribe Graciliini Mulsant, 1839

***Axinopalpis gracilis gracilis* (Krynicki, 1832)**

New data: Ustrem Vill., 42°01.334'N 26°27.383'E, 95 m a.s.l., house yard, 23.vi.2023, 1 ♂ (BFUS-CER000423), at light (white & UV), D. Gradinarov & Y. Petrova leg.

Tribe Hesperophanini Mulsant, 1839

***Stromatium auratum* (Böber, 1793)**

New data: Ustrem Vill., 42°01.339′N 26°27.388′E, 101 m a.s.l., house yard, 12.vii.2020, 1 ♂ (BFUS-CER000424), at light, D. Gradinarov leg.

***Trichoferus fasciculatus fasciculatus* (Faldermann, 1837)**

New data: Ustrem Vill., 42°01.334'N 26°27.383'E, 95 m a.s.l., house yard, 01.ix.2023 – 11.ix.2023, 1 ♀ (BFUS-CER000425), found dead, Y. Petrova leg.

***Trichoferus pallidus* (Olivier, 1790)**

New data: Ustrem Vill., 42°01.339′N 26°27.388′E, 101 m a.s.l., in a house, 21.vii.2021, 1 ♂ (BFUS-CER000426), D. Gradinarov leg.

Tribe Hylotrupini Rose, 1983

***Hylotrupes bajulus* (Linnaeus, 1758)**

New data: SE of Ustrem Vill., the road to Radovets Vill., 41°58.353′N 26°28.995′E, 212 m a.s.l., near a cutting area, mixed forest, 30.vi.2022, 1 ♂ (BFUS-CER000427), 1 ♀ (BFUS-CER000428), under peeled pine bark and pine logs, D. Gradinarov & Y. Petrova leg.

Tribe Purpuricenini J. Thomson, 1861

***Purpuricenus budensis* (Götz, 1783)**

New data: SE of Ustrem Vill., the road to Radovets Vill., 41°58.234′N 26°28.989′E, 213 m a.s.l., roadside verges, 16.vii.2020, 12 ♂♂ (BFUS-CER000429 – BFUS-CER000440), 6 ♀♀ (BFUS-CER000441 – BFUS-CER000446), on Apiaceae, Y. Petrova leg.; SE of Ustrem Vill., the road to Radovets Vill., 41°58.518′N 26°29.013′E, 203 m a.s.l., meadows, edge of oak forest, 30.vi.2022, 1 ♀ (BFUS-CER000447), Y. Petrova leg.; SE of Knyazhevo Vill., 42°06.017′N 26°30.362′E, 102 m a.s.l., dirt road, riverine vegetation and xerothermic grasslands (Fig. 18 C), 28.vi.2022, 1 ♂ (BFUS-CER000448), Y. Petrova leg.

Tribe Stenopterini Gistel, 1848

***Callimoxys gracilis* (Brullé, 1832)** (Fig. 11 D)

Literature data: Izvorovo Vill. (Georgiev *et al.* 2005b: 133); near Topolovgrad (Siering *et al.* 2013: 240); northeast of Lyubimets (Doychev *et al.* 2018: 51, as *Callimoxys gracilis* (Kraatz, 1863) [sic!]).

New data: W of Ustrem Vill., 42°01.453′N 26°27.058′E, 100 m a.s.l., riverine meadows, walnut trees (*Juglans regia* L.), 03.v.2021, 1 ♂ (BFUS-CER000449), 2 ♀♀ (BFUS-CER000450, BFUS-CER000451), on grasses, D. Gradinarov leg.; W of Ustrem Vill., 42°01.434′N 26°27.096′E, 103 m a.s.l., meadows and shrubs, 04.v.2021, 13 ♂♂ (BFUS-CER000452 – BFUS-CER000464), 3 ♀♀ (BFUS-CER000465 – BFUS-CER000467), on *Crataegus monogyna* Jacq., D. Gradinarov leg.; SE of Ustrem Vill., the road to Radovets Vill., 41°58.346′N 26°28.966′E, 218 m a.s.l., roadside verges, edge of oak forest, 05.v.2021, 3 ♀♀ (BFUS-CER000468 – BFUS-CER000470), Y. Petrova leg.; SW of Sinapovo Vill., 42°06.900′N 26°24.767′E, 221 m a.s.l., meadows, edge of oak forest, 24.v.2023, 3 ♂♂ (BFUS-CER000471 – BFUS-CER000473), 2 ♀♀ (BFUS-CER000474, BFUS-CER000475), D. Gradinarov leg.; SW of Kostur Vill., 41°57.199′N 26°15.032′E, 404 m a.s.l., roadside vegetation, oak forest, 26.v.2023, 3 ♀♀ (BFUS-CER000476 – BFUS-CER000478), D. Gradinarov leg.; NW of Yerusalimovo Vill., 41°53.913′N 26°05.529′E, 140 m a.s.l., xerothermic vegetation, 26.v.2023, 1 ♂ (BFUS-CER000479), Y. Petrova leg.; W of Branitsa Vill., 42°00.502'N 26°04.615'E, 386 m a.s.l., roadside vegetation, edge of oak forest, 27.v.2023, 1 ♀ (BFUS-CER000480), Y. Petrova leg.; NE of Izvorovo Vill., 41°59.077'N

26°09.873'E, 496 m a.s.l., meadows and shrubs near a roadside water tap (Fig. 10 B), 08.v.2024, 1 ♀ (BFUS-CER000481), D. Gradinarov & Y. Petrova leg.

***Callimus* (*Lampropterus*) *femoratus* (Germar, 1824)** (Fig. 12; Fig. 11 E)

New data: SE of Glavan Vill., 42°01.787′N 26°08.720′E, 627 m a.s.l., meadows and forest glades, oak forest, 09.vi.2020, 1 ♂ (BFUS-CER000482), 1 ♀ (BFUS-CER000483), at flight, D. Gradinarov leg.; SE of Glavan Vill., 42°01.193′N 26°09.861′E, 647 m a.s.l., mixed forest with oak and black pine, forest glades (Fig. 9 E), 26.vi.2023, 1 ♂ (BFUS-CER000484), D. Gradinarov leg.; SE of Ustrem Vill., the road to Radovets Vill., 41°58.234′N 26°28.989′E, 213 m a.s.l., roadside verges, 16.vii.2020, 1 ♂ (BFUS-CER000485), on Apiaceae, Y. Petrova leg.; Ustrem Vill., 42°01.334'N 26°27.383'E, 95 m a.s.l., house yard, 24.v.2023, 1 ♂ (BFUS-CER000486), D. Gradinarov leg.; Ustrem Vill., 42°01.339′N 26°27.388′E, 101 m a.s.l., house yard, 22.vi.2023 – 23.vi.2023, 3 ♂♂ (BFUS-CER000487 – BFUS-CER000489), on window, D. Gradinarov leg.; Ustrem Vill., 42°01.342′N 26°27.397′E, 101 m a.s.l., street side, ruderal vegetation, 08.v.2024, 1 ♂ (BFUS-CER000490), on *Hordeum* sp., D. Gradinarov leg.; SW of Sinapovo Vill., 42°06.900′N 26°24.767′E, 221 m a.s.l., meadows, edge of oak forest, 22.vi.2023, 1 ♂ (BFUS-CER000491), D. Gradinarov & Y. Petrova leg.; N of Yerusalimovo Vill., 41°54.303′N 26°06.074′E, 174 m a.s.l., roadsive vegetation, 26.v.2023, 1 ♂ (BFUS-CER000492), D. Gradinarov leg.; SW of Yerusalimovo Vill., 41°53.542'N 26°05.698'E, 117 m a.s.l., roadside vegetation, pasture (Fig. 9 F), 11.v.2024, 1 ♂ (BFUS-CER000493), 1 ♀ (BFUS-CER000494), net sweeping, D. Gradinarov leg.; SE of Kolarovo Vill., 41°57.795'N 26°02.301'E, 190 m a.s.l., xerothermic grasslands, edge of oak forest (Fig. 10 D), 11.v.2024, 1 ♂ (BFUS-CER000495), net sweeping, D. Gradinarov leg.

Notes: This species appears to be common in Sakar Mountains. Both examined female specimens have black pronotum coloration.

***Stenopterus rufus rufus* (Linnaeus, 1767)** (Fig. 11 F)

New data: SW of Kostur Vill., 41°58.018′N 26°16.824′E, 437 m a.s.l., meadows, oak forest, 18.v.2016, 1 ♀ (BFUS-CER000496), D. Gradinarov & Y. Petrova leg.; SW of Kostur Vill., 41°57.192′N 26°15.080′E, 399 m a.s.l., roadside vegetation, oak forest, 09.vi.2020, 1 ♀ (BFUS-CER000497), D. Gradinarov & Y. Petrova leg.; SW of Ustrem Vill., 42°00.949′N 26°27.022′E, 154 m a.s.l., dry meadows, 07.vi.2020, 1 ♀ (BFUS-CER000498), D. Gradinarov leg.; W of Ustrem Vill., 42°01.377′N 26°26.908′E, 103 m a.s.l., riverine vegetation, alfalfa field boundaries, 29.vi.2022, 1 ♂ (BFUS-CER000499), D. Gradinarov leg.; SE of Ustrem Vill., the road to Radovets Vill., 41°59.698′N 26°28.570′E, 197 m a.s.l., roadside vegetation, 08.vi.2020, 1 ♀ (BFUS-CER000500), D. Gradinarov & Y. Petrova leg.; SE of Ustrem Vill., the road to Radovets Vill., 41°58.518′N 26°29.013′E, 203 m a.s.l., meadows, edge of oak forest, 30.vi.2022, 1 ♂ (BFUS-CER000501), 1 ♀ (BFUS-CER000502), D. Gradinarov leg.; the same data, 1 ♀ (BFUS-CER000503), Y. Petrova leg.; SE of Knyazhevo Vill., 42°06.017′N 26°30.362′E, 102 m a.s.l., dirt road, riverine vegetation and xerothermic grasslands (Fig. 18 C), 07.vi.2020, 2 ♂♂ (BFUS-CER000504, BFUS-CER000505), 2 ♀♀ (BFUS-CER000506, BFUS-CER000507), D. Gradinarov & Y. Petrova leg.; 1,5 km N of Sakartsi Vill., 42°03.696′N 26°17.567′E, 365 m a.s.l., roadside verges and meadows, 07.v.2024, 1 ♀ (BFUS-CER000508), on *Matricaria* sp., D. Gradinarov & Y. Petrova leg.; SE of Glavan Vill., 42°01.865′N 26°08.765′E, 630 m a.s.l., forest glades, oak forest, 09.vi.2020, 1 ♂ (BFUS-CER000509), 2 ♀♀ (BFUS-CER000510, BFUS-CER000511), D. Gradinarov & Y. Petrova leg.; the same data, 1 ♀ (BFUS-CER000512), Y. Petrova leg.; SE of Glavan Vill., 42°01.787′N 26°08.720′E, 627 m a.s.l., meadows and forest glades, oak forest, 09.vi.2020, 2 ♂♂ (BFUS-CER000513, BFUS-CER000514), 3 ♀♀ (BFUS-CER000515 – BFUS-CER000517), D. Gradinarov leg.; SE of Glavan Vill., 42°01.193′N 26°09.861′E, 647 m a.s.l., mixed forest with oak and black pine, forest glades (Fig. 9 E), 26.vi.2023, 1 ♂ (BFUS-CER000518), Y. Petrova

leg.; the same data, 1 ♀ (BFUS-CER000519), D. Gradinarov leg.; NE of Izvorovo Vill., 41°59.077'N 26°09.873'E, 496 m a.s.l., meadows and shrubs near a roadside water tap (Fig. 10 B), 08.v.2024, 2 ♀♀ (BFUS-CER000520, BFUS-CER000521), D. Gradinarov & Y. Petrova leg.; Maritsa Riv. Valley, NW of Rogozinovo Vill., left bank of Maritsa Riv., 41°55.615′N 25°56.098′E, 75 m a.s.l., riverine vegetation (Fig. 10 A), 20.vii.2021, 1 ♀ (BFUS-CER000522), on Apiaceae, D. Gradinarov leg.; N of Yerusalimovo Vill., 41°54.303′N 26°06.074′E, 174 m a.s.l., roadsive vegetation, 26.v.2023, 3 ♂♂ (BFUS-CER000523 – BFUS-CER000525), 2 ♀♀ (BFUS-CER000526, BFUS-CER000527), D. Gradinarov leg.

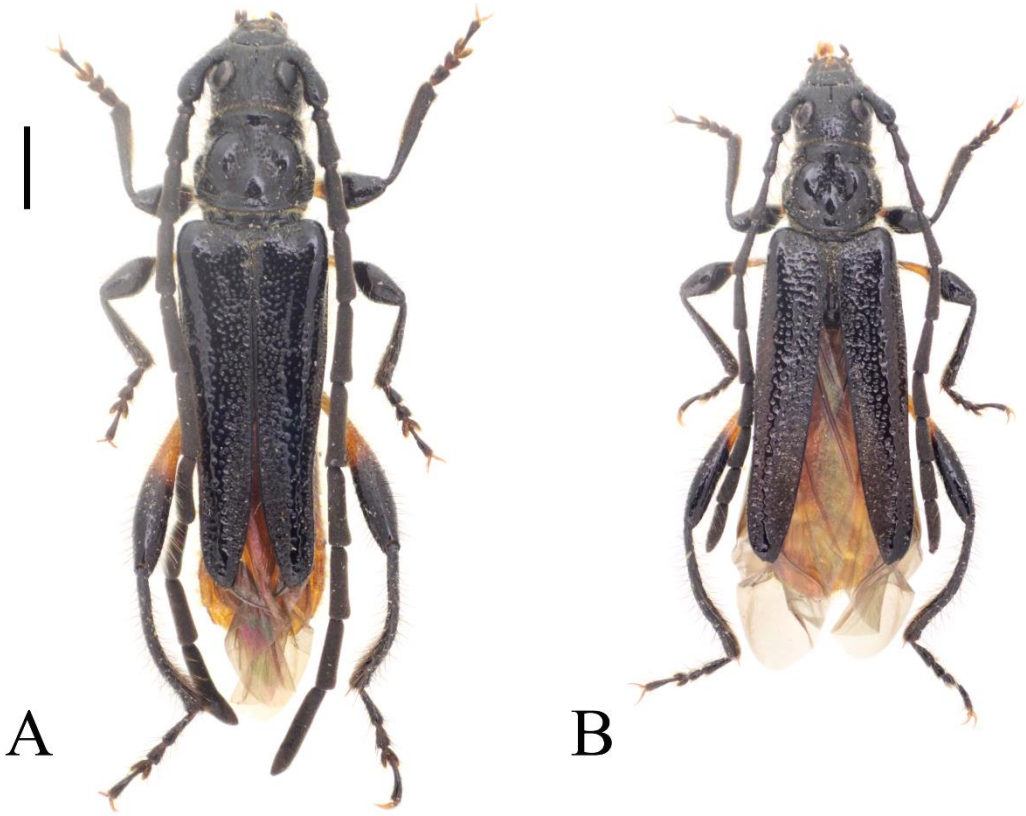

Fig. 12. *Callimus femoratus*, Yerusalimovo locality, Sakar Mts, 11.v.2024. A – male (BFUS-CER000493); B – female (BFUS-CER000494). Scale bar: 1 mm.

Subfamily Lamiinae Latreille, 1825

Tribe Agapanthiini Mulsant, 1839

***Agapanthia* (*Agapanthia*) *cardui* (Linnaeus, 1767)** (Fig. 19 A)

Literature data: [Sakar Mts] (Bringmann 1995: 70, as *Agapanthia pannonica* Kratochvil, 1985) [map].

New data: SE of Ustrem Vill., the road to Radovets Vill., 41°59.698′N 26°28.570′E, 197 m a.s.l., roadside vegetation, 08.vi.2020, 1 ♀ (BFUS-CER000528), D. Gradinarov & Y. Petrova leg.; SE of Ustrem Vill., the road to Radovets Vill., 41°58.346′N 26°28.966′E, 218 m a.s.l., roadside verges, edge of oak forest, 05.v.2021, 1 ♂ (BFUS-CER000529), D. Gradinarov & Y. Petrova leg.; Ustrem Vill., 42°01.342'N 26°27.397'E, 95 m a.s.l., side of the street, 07.v.2024, 1 ♀ (BFUS-CER000530), on *Silybum marianum* (L.) Gaertn., D. Gradinarov leg.; NE of Planinovo Vill., 41°59.146′N 26°24.382′E, 281 m a.s.l., roadside vegetation, edge of oak forest, 03.v.2021, 1 ♂ (BFUS-CER000531), Y. Petrova leg.; the road between Ustrem and

Planinovo Vill., 03.v.2021, 1 ♂ (BFUS-CER000532), Y. Petrova leg.; SE of Knyazhevo Vill., 42°06.017′N 26°30.362′E, 102 m a.s.l., dirt road, riverine vegetation and xerothermic grasslands (Fig. 18 C), 07.vi.2020, 2 ♂♂ (BFUS-CER000533, BFUS-CER000534), D. Gradinarov & Y. Petrova leg.; the same locality, 03.v.2021, 1 ♂ (BFUS-CER000535), 2 ♀♀ (BFUS-CER000536, BFUS-CER000537), on Asteraceae, D. Gradinarov & Y. Petrova leg.; SW of Kostur Vill., 41°57.192′N 26°15.080′E, 399 m a.s.l., roadside vegetation, oak forest, 09.vi.2020, 1 ♀ (BFUS-CER000538), D. Gradinarov & Y. Petrova leg.; SW of Kostur Vill., 41°57.199′N 26°15.032′E, 404 m a.s.l., roadside vegetation, oak forest, 26.v.2023, 1 ♂ (BFUS-CER000539), 2 ♀♀ (BFUS-CER000540, BFUS-CER000541), Y. Petrova leg.; the same data, 1 ♀ (BFUS-CER000542), D. Gradinarov leg.; the same data, 1 ♀ (BFUS-CER000543), D. Gradinarov & Y. Petrova leg.; SE of Glavan Vill., 42°01.865′N 26°08.765′E, 630 m a.s.l., forest glades, oak forest, 09.vi.2020, 1 ♂ (BFUS-CER000544), 1 ♀ (BFUS-CER000545), Y. Petrova leg.; SE of Glavan Vill., 42°01.787′N 26°08.720′E, 627 m a.s.l., meadows and forest glades, oak forest, 09.vi.2020, 1 ♀ (BFUS-CER000546), D. Gradinarov leg.; SE of Glavan Vill., 42°01.193′N 26°09.861′E, 647 m a.s.l., mixed forest with oak and black pine, forest glades (Fig. 9 E), 24.v.2023, 2 ♂♂ (BFUS-CER000547, BFUS-CER000548), 1 ♀ (BFUS-CER000549), D. Gradinarov & Y. Petrova leg.; the same locality, 26.vi.2023, 1 ♂ (BFUS-CER000550), D. Gradinarov leg.; SE of Glavan Vill., 42°01.791'N 26°08.744'E, 616 m a.s.l., dry meadows next to an oak forest, 11.v.2024, 1 ♀ (BFUS-CER000551), D. Gradinarov & Y. Petrova leg.; W of Branitsa Vill., 42°00.466′N 26°04.582′E, 386 m a.s.l., dirt road, meadows, 20.v.2023, 2 ♂♂ (BFUS-CER000552, BFUS-CER000553), 4 ♀♀ (BFUS-CER000554 – BFUS-CER000557), on Asteraceae, Y. Petrova leg.; NE of Izvorovo Vill., 41°59.077'N 26°09.873'E, 496 m a.s.l., meadows and shrubs near a roadside water tap (Fig. 10 B), 08.v.2024, 2 ♂♂ (BFUS-CER000558, BFUS-CER000559), D. Gradinarov & Y. Petrova leg.; NW of Yerusalimovo Vill., 41°53.913′N 26°05.529′E, 140 m a.s.l., xerothermic vegetation, 26.v.2023, 1 ♂ (BFUS-CER000560), 1 ♀ (BFUS-CER000561), Y. Petrova leg.; the same data, 1 ♀ (BFUS-CER000562), D. Gradinarov leg.

***Agapanthia* (*Epoptes*) *boeberi cynarae* (Germar, 1817)** (Fig. 19 B)

Literature data: [Sakar Mts] (Bringmann 1995: 70, as *Agapanthia cynarae* (Germar, 1817)) [map].

New data: SW of Kostur Vill., 41°57.206′N 26°15.051′E, 405 m a.s.l., forest glades, oak forest, 19.v.2016, 1 ♀ (BFUS-CER000563), D. Gradinarov & Y. Petrova leg.; Maritsa Riv. Valley, N of Lyubimets, left bank of Maritsa Riv., 41°52.064′N 26°05.046′E, 64 m a.s.l., riverine vegetation, 24.v.2021, 1 ♂ (BFUS-CER000564), on *Anchusa procera* Bess., D. Gradinarov leg.; W of Branitsa Vill., 42°00.466′N 26°04.582′E, 386 m a.s.l., dirt road, meadows, 20.v.2023, 1 ♂ (BFUS-CER000565), 2 ♀♀ (BFUS-CER000566, BFUS-CER000567), on Asteraceae, Y. Petrova leg.; NE of Izvorovo Vill., 41°59.077'N 26°09.873'E, 496 m a.s.l., meadows and shrubs near a roadside water tap (Fig. 10 B), 08.v.2024, 2 ♂♂ (BFUS-CER000568, BFUS-CER000569), 2 ♀♀ (BFUS-CER000570, BFUS-CER000571), on *Carduus candicans* Waldst. & Kit., D. Gradinarov & Y. Petrova leg.; SE of Glavan Vill., 42°01.791'N 26°08.744'E, 616 m a.s.l., dry meadows next to an oak forest, 11.v.2024, 1 ♀ (BFUS-CER000572), D. Gradinarov & Y. Petrova leg.

***Agapanthia* (*Epoptes*) *dahli dahli* (C. F. W. Richter, 1820)**

Literature data: [Sakar Mts] (Bringmann 1995: 70) [map].

New data: SE of Knyazhevo Vill., 42°06.017′N 26°30.362′E, 102 m a.s.l., dirt road, riverine vegetation and xerothermic grasslands (Fig. 18 C), 07.vi.2020, 1 ♂ (BFUS-CER000573), D. Gradinarov & Y. Petrova leg.; the same locality, 02.vii.2022, 1 ♀ (BFUS-CER000574), Y. Petrova leg.; SE of Ustrem Vill., the road to Radovets Vill., 41°59.698′N 26°28.570′E, 197 m a.s.l., roadside vegetation, 08.vi.2020, 2 ♀♀ (BFUS-CER000575, BFUS-

CER000576), D. Gradinarov & Y. Petrova leg.; E of Oreshnik Vill., 42°04.100′N 26°23.179′E, 278 m a.s.l., roadside verges, 09.vi.2020, 4 ♂♂ (BFUS-CER000577 – BFUS-CER000580), Y. Petrova leg.; the same data, 1 ♂ (BFUS-CER000581), 2 ♀♀ (BFUS-CER000582, BFUS-CER000583), D. Gradinarov & Y. Petrova leg.; E of Oreshnik Vill., 42°04.155′N 26°23.043′E, 280 m a.s.l., dry meadows, ruderal vegetation, 21.vi.2023, 1 ♂ (BFUS-CER000584), 1 ♀ (BFUS-CER000585), D. Gradinarov leg.; E of Srem Vill., 42°02.973′N 26°28.314′E, 89 m a.s.l., dirt road, grasslands, 28.vi.2022, 1 ♀ (BFUS-CER000586), D. Gradinarov & Y. Petrova leg.

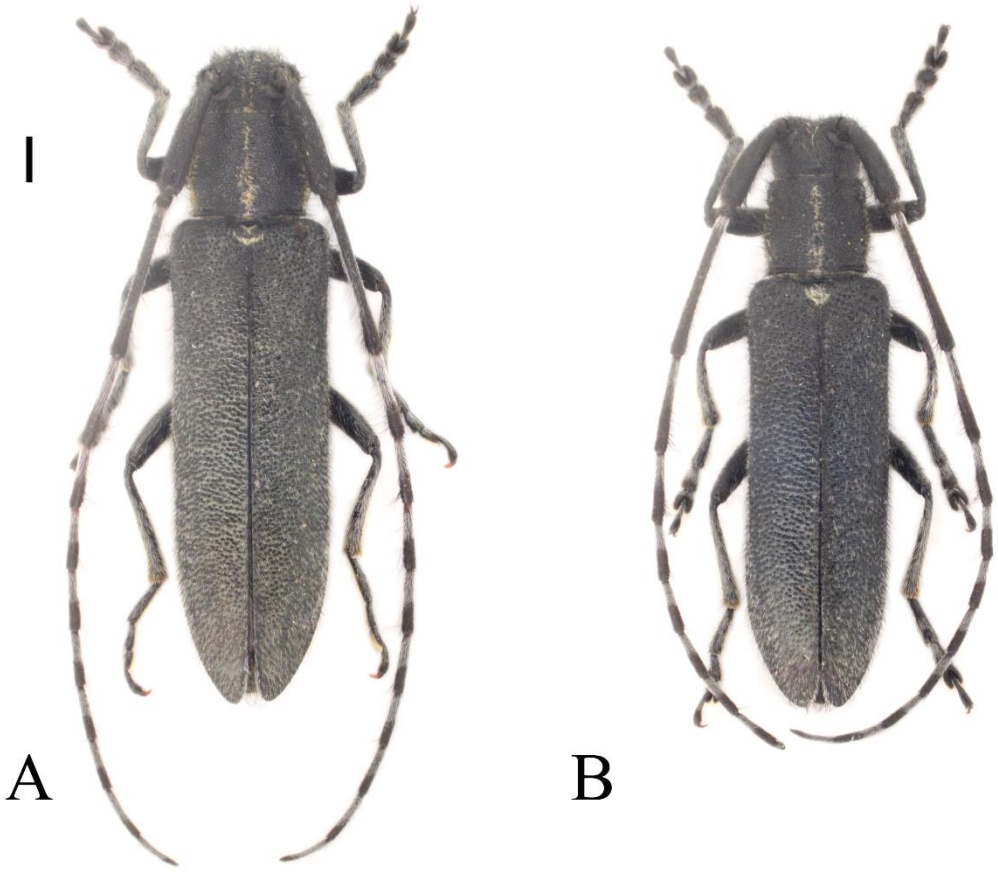

Fig. 13. *Agapanthia villosoviridescens gazanchidisi*, Ustrem locality, Sakar Mts, 01.vii.2022. A – male (BFUS-CER000588); B – female (BFUS-CER000589). Scale bar: 1 mm.

***Agapanthia* (*Epoptes*) *villosoviridescens gazanchidisi* Lazarev, 2021** (Fig. 13)

Literature data: East of Knyazhevo Vill. (Lazarev, 2021: 32, as *Agapanthia gazanchidisi* Lazarev 2021).

New data: SE of Knyazhevo Vill., 42°06.017′N 26°30.362′E, 102 m a.s.l., dirt road, riverine vegetation and xerothermic grasslands (Fig. 18 C), 07.vi.2020, 1 ♂ (BFUS-CER000587), D. Gradinarov & Y. Petrova leg.; W of Ustrem Vill., 42°01.357′N 26°26.900′E, 104 m a.s.l., riverine vegetation, agricultural field boundaries (Fig. 9 B), 01.vii.2022, 1 ♂ (BFUS-CER000588), 1 ♀ (BFUS-CER000589), on Apiaceae, D. Gradinarov leg.

Notes: The species *Agapanthia gazanchidisi* Lazarev, 2021 was described by Lazarev from Greece and Bulgaria (Lazarev 2021). Later, the same author downgraded this taxon to subspecies of *A. villosoviridescens* (Lazarev 2024). According to Lazarev (2021), the new taxon is characterized by poor development of dorsal pubescence end as well as by the genital morphology. The formerly published as *A. villosoviridescens* (De Geer, 1775) specimens from Strandzha Mts (Georgiev *et al.* 2018), Vrachanska Planina Mts (Gradinarov

& Petrova 2019), Belasitsa Mts (Georgiev *et al.* 2019) and Sarnena Sredna Gora Mts (Gradinarov & Petrova 2020), currently deposited in BFUS Collection (BFUS-CER000777 – BFUS-CER000786), belong to *A. villosoviridescens gazanchidisi* as well. According to Lazarev (2021), the host plant of *A. villosoviridescens gazanchidisi* in Greece is *Melilotus* sp. (Fabaceae), but in Bulgaria this taxon is often found on stems and leaves of Apiaceae (Gradinarov, unpublished data).

***Agapanthia* (*Homoblephara*) *maculicornis maculicornis* (Gyllenhal, 1817)**

Literature data: Srem Vill. (Bringmann *et al.* 2005: 61); north of Sakartsi Vill.; south of Ustrem Vill.; southeast of Glavan Vill. (Gradinarov & Petrova 2023: 2).

New data: SE of Glavan Vill., 42°01.791'N 26°08.744'E, 616 m a.s.l., dry meadows next to an oak forest, 11.v.2024, 1 ♂ (BFUS-CER000590), D. Gradinarov & Y. Petrova leg.; SE of Glavan Vill., 42°01.143'N 26°09.781'E, 646 m a.s.l., dry roadside meadows next to mixed forest with oak and black pine, 11.v.2024, 2 ♂♂ (BFUS-CER000591, BFUS-CER000592), on *Tragopogon* sp., Y. Petrova leg.; NE of Balgarska Polyana Vill., 42°02.399′N 26°12.569′E, 420 m a.s.l., roadside meadows (Fig. 9 C), 12.v.2024, 1 ♀ (BFUS-CER000593), Y. Petrova leg.

******Agapanthia* (*Smaragdula*) *violacea* (Fabricius, 1775)**

New data: 5 km SE of Glavan Vill., 42°01.825′N 26°08.743′E, 620 m a.s.l., forest glades, oak forest, 26.v.2019, 1 ♂ (BFUS-CER000594), 1 ♀ (BFUS-CER000595), Y. Petrova leg.; SE of Glavan Vill., 42°01.865′N 26°08.765′E, 630 m a.s.l., forest glades, oak forest, 09.vi.2020, 2 ♂♂ (BFUS-CER000596, BFUS-CER000597), Y. Petrova leg.; the same data, 1 ♀ (BFUS-CER000598), D. Gradinarov & Y. Petrova leg.; SE of Glavan Vill., 42°01.787′N 26°08.720′E, 627 m a.s.l., meadows and forest glades, oak forest, 09.vi.2020, 1 ♂ (BFUS-CER000599), D. Gradinarov leg.; SE of Glavan Vill., 42°01.193′N 26°09.861′E, 647 m a.s.l., mixed forest with oak and black pine, forest glades (Fig. 9 E), 24.v.2023, 1 ♀ (BFUS-CER000600), D. Gradinarov & Y. Petrova leg.; SE of Glavan Vill., 42°01.791'N 26°08.744'E, 616 m a.s.l., dry meadows next to an oak forest, 11.v.2024, 1 ♀ (BFUS-CER000601), D. Gradinarov & Y. Petrova leg.; SE of Knyazhevo Vill., 42°06.017′N 26°30.362′E, 102 m a.s.l., dirt road, riverine vegetation and xerothermic grasslands (Fig. 18 C), 07.vi.2020, 2 ♂♂ (BFUS-CER000602, BFUS-CER000603), 3 ♀♀ (BFUS-CER000604 – BFUS-CER000606), D. Gradinarov & Y. Petrova leg.; the same locality, 03.v.2021, 1 ♂ (BFUS-CER000607), on Asteraceae, D. Gradinarov & Y. Petrova leg.; Sremski prolom Gorge, NE of Srem Vill., 42°04.143′N 26°30.495′E, 98 m a.s.l., roadside vegetation, 07.vi.2020, 1 ♂ (BFUS-CER000608), 1 ♀ (BFUS-CER000609), on *Centaurea* sp., D. Gradinarov & Y. Petrova leg.; SE of Ustrem Vill., the road to Radovets Vill., 41°59.698′N 26°28.570′E, 197 m a.s.l., roadside vegetation, 08.vi.2020, 2 ♂♂ (BFUS-CER000610, BFUS-CER000611), D. Gradinarov & Y. Petrova leg.; SE of Ustrem Vill., the road to Radovets Vill., 41°58.346′N 26°28.966′E, 218 m a.s.l., roadside verges, edge of oak forest, 05.v.2021, 2 ♂♂ (BFUS-CER000612, BFUS-CER000613), 4 ♀♀ (BFUS-CER000614 – BFUS-CER000617), D. Gradinarov & Y. Petrova leg.; NE of Planinovo Vill., 41°59.146′N 26°24.382′E, 281 m a.s.l., roadside vegetation, edge of oak forest, 03.v.2021, 3 ♀♀ (BFUS-CER000618 – BFUS-CER000620), Y. Petrova leg.; the road between Ustrem and Planinovo Vill., 03.v.2021, 1 ♀ (BFUS-CER000621), Y. Petrova leg.; Ustrem Vill., 42°01.342′N 26°27.397′E, 101 m a.s.l., street side, ruderal vegetation, 08.v.2024, 1 ♀ (BFUS-CER000622), D. Gradinarov leg.; SE of Sinapovo Vill., 42°07.166′N 26°28.382′E, 116 m a.s.l., riverine meadows, 24.v.2023, 1 ♂ (BFUS-CER000623), Y. Petrova leg.; Maritsa Riv. Valley, N of Lyubimets, left bank of Maritsa Riv., 41°52.064′N 26°05.046′E, 64 m a.s.l., riverine vegetation, 24.v.2021, 1 ♂ (BFUS-CER000624), on *Anchusa procera* Bess., D. Gradinarov leg.; NE of Izvorovo Vill., 41°59.077'N 26°09.873'E, 496 m a.s.l., meadows and shrubs near a roadside water tap (Fig. 10 B), 08.v.2024, 2 ♂♂ (BFUS-

CER000625, BFUS-CER000626), 2 ♀♀ (BFUS-CER000627, BFUS-CER000628), D. Gradinarov & Y. Petrova leg.; SW of Kostur Vill., 41°57.199′N 26°15.032′E, 404 m a.s.l., roadside vegetation, oak forest, 26.v.2023, 1 ♀ (BFUS-CER000629), D. Gradinarov leg.

***Agapanthiola leucaspis* (Steven, 1817)**

New data: Maritsa Riv. Valley, SW of Yerusalimovo Vill., 41°52.106′N 26°05.108′E, 72 m a.s.l., roadside vegetation, 24.v.2021, 2 ♂♂ (BFUS-CER000630, BFUS-CER000631), 3 ♀♀ (BFUS-CER000632 – BFUS-CER000634), on *Cichorium intybus L.*, D. Gradinarov leg.; W of Branitsa Vill., 42°00.466′N 26°04.582′E, 386 m a.s.l., dirt road, meadows, 20.v.2023, 1 ♂ (BFUS-CER000635), 1 ♀ (BFUS-CER000636), Y. Petrova leg.; NW of Srem Vill., 42°03.772′N 26°28.530′E, 84 m a.s.l., dirt road, riverine vegetation, 22.vi.2023, 1 ♂ (BFUS-CER000637), 1 ♀ (BFUS-CER000638), on *Cichorium intybus* L., D. Gradinarov leg.

***Calamobius filum* (Rossi, 1790)**

New data: W of Ustrem Vill., 42°01.419′N 26°26.978′E, 101 m a.s.l., riverine meadows, next to agricultural fields, 25.vi.2023, 1 ♀ (BFUS-CER000639), on grasses, D. Gradinarov leg.; SE of Glavan Vill., 42°01.193′N 26°09.861′E, 647 m a.s.l., mixed forest with oak and black pine, forest glades (Fig. 9 E), 26.vi.2023, 6 ♂♂ (BFUS-CER000640 – BFUS-CER000645), 3 ♀♀ (BFUS-CER000646 – BFUS-CER000648), net sweeping, D. Gradinarov leg.; SE of Kolarovo Vill., 41°57.795'N 26°02.301'E, 190 m a.s.l., xerothermic grasslands, edge of oak forest (Fig. 10 D), 11.v.2024, 1 ♀ (BFUS-CER000649), net sweeping, D. Gradinarov leg.

Apodasyini Lacordaire, 1872

***Anaesthetis testacea testacea* (Fabricius, 1781)**

New data: W of Ustrem Vill., 42°01.354′N 26°26.904′E, 106 m a.s.l., riverine vegetation, poplar and alder trees, 23.vi.2023, 1 ♂ (BFUS-CER000650), found dead on grasses, D. Gradinarov leg.

Tribe Dorcadionini Swainson, 1840

***Dorcadion* (*Carinatodorcadion*) *aethiops aethiops* (Scopoli, 1763)** (Fig. 14)

Literature data: Dripchevo Vill. (Ganev 1986: 311).

New data: SE of Dripchevo Vill., 41°57.773′N 26°13.602′E, 406 m a.s.l., meadows and shrubs, 18.v.2016, 1 ♂ (BFUS-CER000651), dead on the road, D. Gradinarov & Y. Petrova leg.; 1 km SW of Kostur Vill., 41°58.057′N 26°16.496′E, 437 m a.s.l., riverine forest, 26.v.2019, 1 ♀ (BFUS-CER000652), on the ground, D. Gradinarov leg.; NW of Ustrem Vill., 42°01.464′N 26°26.663′E, 124 m a.s.l., pasture, 04.v.2021, 1 ♂ (BFUS-CER000653), on the ground, D. Gradinarov leg.; SE of Ustremski Manastir Monastery, 42°01.608′N 26°26.059′E, 121 m a.s.l., dirt road, meadows next to an oak forest, 30.vi.2022, 1 ♀ (BFUS-CER000654), on the ground, D. Gradinarov leg.; SE of Glavan Vill., 42°01.791'N 26°08.744'E, 616 m a.s.l., dry meadows next to an oak forest, 11.v.2024, 1 ♂ (BFUS-CER000655), on the ground, D. Gradinarov & Y. Petrova leg.; SE of Kolarovo Vill., 41°57.795'N 26°02.301'E, 190 m a.s.l., xerothermic grasslands, edge of oak forest (Fig. 10 D), 11.v.2024, 1 ♂ (BFUS-CER000656), 3 ♀♀ (BFUS-CER000657 – BFUS-CER000659), on the ground, D. Gradinarov leg.

Notes: Two subspecies of *D. aethiops* (Scopoli, 1763) have been described from Bulgaria: *D. aethiops strumense* Danilevsky, 2014 from Drangovo Village (Petrich Municipality) and Gotse Delchev environs, and *D. aethiops asenovi* Danilevsky, 2014 from Asenovgrad environs (Danilevsky 2014). Both subspecies differ in particular from the

nominative subspecies by their much finer elytral punctation (Danilevsky 2014). In all examined specimens from Sakar Mountain, the punctation of the elytra is relatively well developed and we consider them to belong to the nominative subspecies.

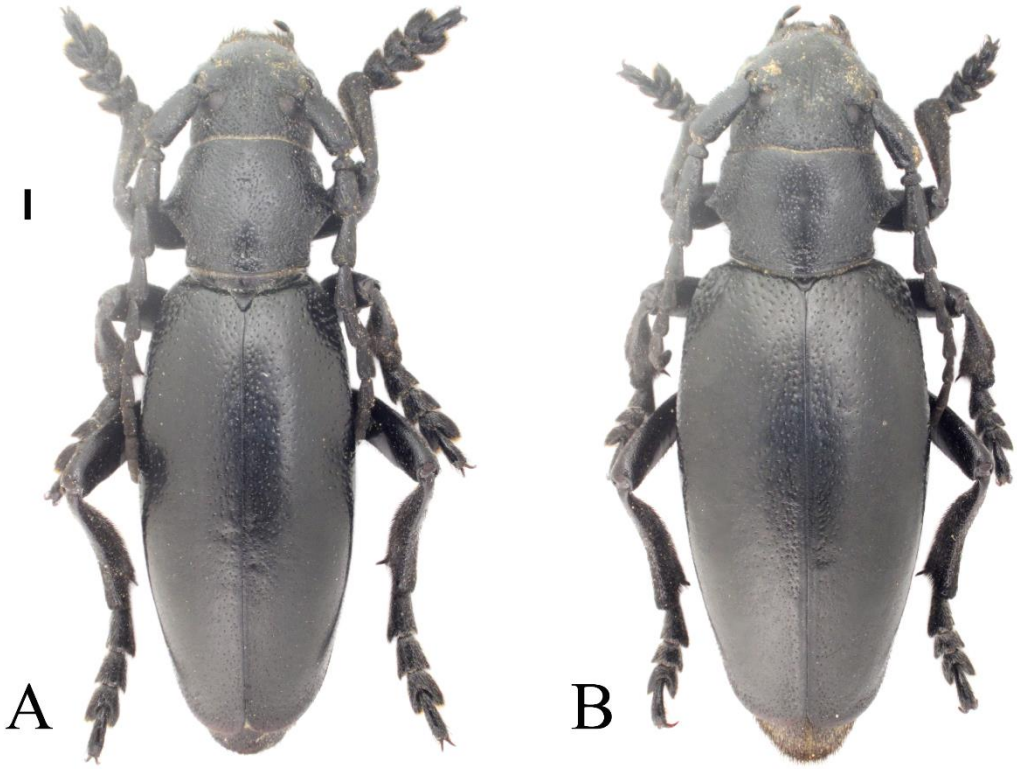

Fig. 14. *Dorcadion aethiops aethiops*, Kolarovo locality, Sakar Mts, 11.v.2024. A – male (BFUS-CER000656); B – female (BFUS-CER000657). Scale bar: 1 mm.

***Dorcadion* (*Cribridorcadion*) *pedestre pedestre* (Poda von Neuhaus, 1761)**

New data: Planinovo Vill., 41°57.493′N 26°22.783′E, 394 m a.s.l., 07.vi.2020, 1 ♂ (BFUS-CER000660), Y. Petrova leg.; NW of Ustrem Vill., 42°01.556′N 26°26.979′E, 119 m a.s.l., dirt road, meadows next to a pine forest (Fig. 10 F), 03.v.2021, 4 ♂♂ (BFUS-CER000661 – BFUS-CER000664), 2 ♀♀ (BFUS-CER000665, BFUS-CER000666), on the ground, D. Gradinarov leg.; NW of Ustrem Vill., 42°01.467′N 26°26.778′E, 111 m a.s.l., dirt road, meadows, 03.v.2021, 1 ♂ (BFUS-CER000667), 1 ♀ (BFUS-CER000668), on the ground, D. Gradinarov leg.; NW of Ustrem Vill., 42°01.464′N 26°26.663′E, 124 m a.s.l., pasture, 04.v.2021, 6 ♂♂ (BFUS-CER000669 – BFUS-CER000674), on the ground, D. Gradinarov leg.; S of Ustrem Vill., the road to Radovets Vill., 42°00.750′N 26°27.928′E, 162 m a.s.l., xerothermic vegetation, with *Paliurus spina-christi* Mill., hillside (Fig. 18 B), 05.v.2021, 9 ♂♂ (BFUS-CER000675 – BFUS-CER000683), 1 ♀ (BFUS-CER000684), on the ground, D. Gradinarov & Y. Petrova leg.; SE of Ustremski Manastir Monastery, 42°01.608′N 26°26.059′E, 121 m a.s.l., dirt road, meadows next to an oak forest, 30.vi.2022, 2 ♂♂ (BFUS-CER000685, BFUS-CER000686), on the ground, D. Gradinarov & Y. Petrova leg.; S of Sinapovo Vill., 42°06.757′N 26°27.688′E, 203 m a.s.l., roadside vegetation, boundaries of agricultural fields, 13.iv.2023, 1 ♂ (BFUS-CER000687), on the ground, D. Gradinarov & Y. Petrova leg.; E of Mramor Vill., 42°02.647′N 26°25.437′E, 190 m a.s.l., roadside vegetation, near fields with lavender, 21.vi.2023, 1 ♂ (BFUS-CER000688), on the ground, D. Gradinarov leg.; 1,5 km N of Sakartsi Vill., 42°03.696′N 26°17.567′E, 365 m a.s.l., roadside verges and

meadows, 07.v.2024, 1 ♂ (BFUS-CER000689), on the ground, D. Gradinarov & Y. Petrova leg.

***Dorcadion* (*Cribridorcadion*) *tauricum tauricum* Waltl, 1838** (Fig. 19 C)

New data: W of Ustrem Vill., 42°01.372′N 26°27.206′E, 98 m a.s.l., meadows, agricultural field boundaries (Fig. 10 E), 01.v.2021, 2 ♂♂ (BFUS-CER000690, BFUS-CER000691), 3 ♀♀ (BFUS-CER000692 – BFUS-CER000694), under pine logs and peeled pine bark on the ground, D. Gradinarov leg.; the same locality, 05.v.2021, 1 ♂ (BFUS-CER000695), 1 ♀ (BFUS-CER000696), under lumps of soil, D. Gradinarov leg.; Ustrem Vill., 42°01.299′N 26°27.296′E, 101 m a.s.l., 04.v.2021, 1 ♀ (BFUS-CER000697), on the street, D. Gradinarov leg.; S of Sinapovo Vill., 42°06.757′N 26°27.688′E, 203 m a.s.l., roadside vegetation, boundaries of agricultural fields, 13.iv.2023, 1 ♂ (BFUS-CER000698), on the ground, D. Gradinarov & Y. Petrova leg.; SW of Kostur Vill., 41°57.199′N 26°15.032′E, 404 m a.s.l., roadside vegetation, oak forest, 26.v.2023, 1 ♀ (BFUS-CER000699), dead on the road, Y. Petrova leg.

***Neodorcadion bilineatum* (Germar, 1824)**

New data: NE of Planinovo Vill., 41°59.449′N 26°24.943′E, 289 m a.s.l., on the road, 14.vii.2020, 1 ♂ (BFUS-CER000713), on the road, D. Gradinarov & Y. Petrova leg.; W of Ustrem Vill., 42°01.372′N 26°27.206′E, 98 m a.s.l., meadows, agricultural field boundaries (Fig. 10 E), 01.v.2021, 2 ♂♂ (BFUS-CER000700, BFUS-CER000701), 4 ♀♀ (BFUS-CER000702 – BFUS-CER000705), under peeled pine bark on the ground, D. Gradinarov leg.; the same locality, 05.v.2021, 4 ♂♂ (BFUS-CER000706 – BFUS-CER000709), 2 ♀♀ (BFUS-CER000710, BFUS-CER000711), under lumps of soil, D. Gradinarov leg.; NW of Ustrem Vill., 42°01.467′N 26°26.778′E, 111 m a.s.l., dirt road, meadows, 03.v.2021, 1 ♀ (BFUS-CER000712), on the ground, D. Gradinarov leg.

Tribe Exocentrini Pascoe, 1864

***Exocentrus lusitanus* (Linnaeus, 1767)**

Literature data: Sakar Mts (Angelov 1967: 124) [without exact locality].

***Exocentrus punctipennis punctipennis* Mulsant & Guillebeau, 1856**

Literature data: Sakar Mts (Angelov 1967: 125) [without exact locality].

Tribe Lamiini Latreille, 1825

***Morimus asper funereus* Mulsant, 1862** (Fig. 19 E)

Literature data: Balgarska polyana Vill.; Hlyabovo Vill.; Kostur Vill.; Planinovo Vill.; Sakartsi Vill. (Kostova *et al.* 2023).

New data: SE of Ustremski Manastir Monastery, 42°01.624′N 26°26.091′E, 131 m a.s.l., open oak forest, 30.vi.2022, 1 ♂ (BFUS-CER000714), 1 ♀ (BFUS-CER000715), on an oak trunk, D. Gradinarov & Y. Petrova leg.; SE of Glavan Vill., 42°01.040'N 26°10.463'E, 624 m a.s.l., edge of oak forest (Fig. 18 A), 11.v.2024, 1 ♂ (BFUS-CER000716), on a fallen oak trunk, D. Gradinarov & Y. Petrova leg.; the same data, 1 ♀ (BFUS-CER000717), on the road, D. Gradinarov & Y. Petrova leg.

Notes: *Morimus asper funereus* is included in Annex II of the Directive 92/43/EEC on the conservation of natural habitats and of wild fauna and flora (Council of Europe 1992).

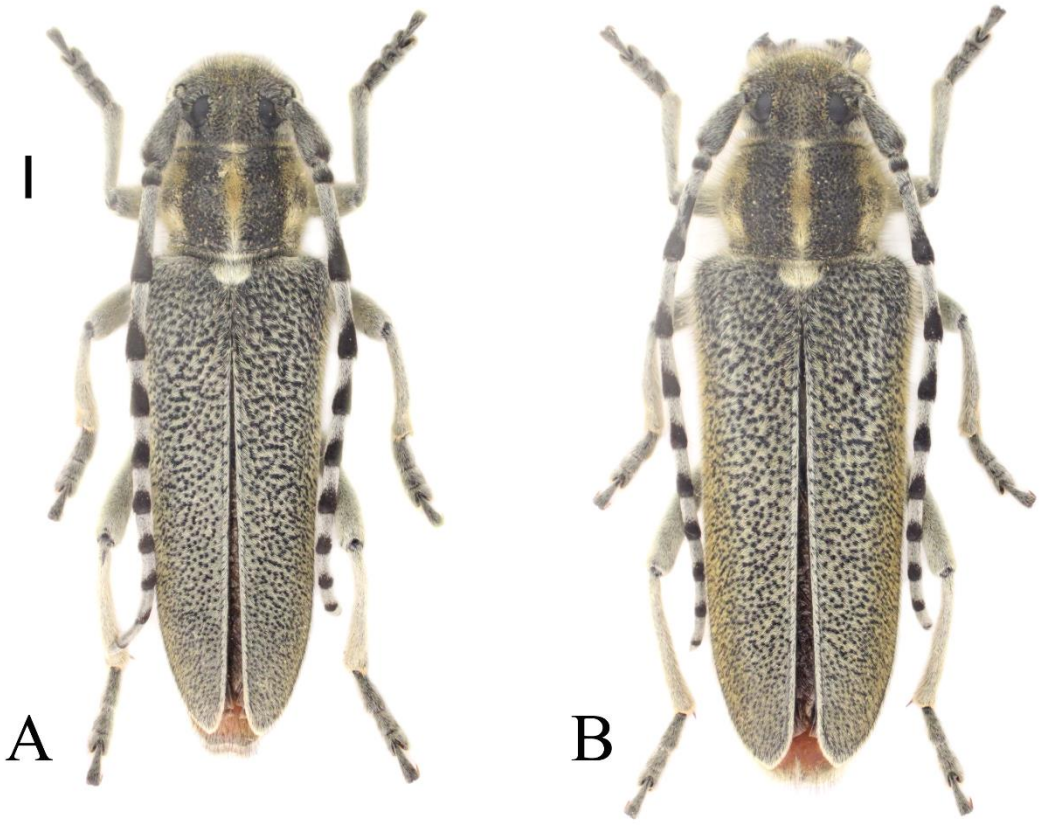

Fig. 15. *Oxylia duponchelii*, Balgarin locality, Sakar Mts, 25.vi.2023. A – male (BFUS-CER000721); B – female (BFUS-CER000722). Scale bar: 1 mm.

Tribe Phytoeciini Mulsant, 1839

***Oxylia duponchelii* (Brullé, 1832)** (Fig. 15; Fig. 19 D)

New data: E of Oreshnik Vill., 42°04.155′N 26°23.043′E, 280 m a.s.l., dry meadows, ruderal vegetation, 21.vi.2023, 1 ♂ (BFUS-CER000718), on *Anchusa azurea* Miller, D. Gradinarov leg.; SE of Knyazhevo Vill., 42°06.009′N 26°30.382′E, 105 m a.s.l., dirt road, riverine vegetation and xerothermic grasslands, 22.vi.2023, 1 ♀ (BFUS-CER000719), on *Echium italicum* L., D. Gradinarov leg.; N of Sakartsi Vill., 42°03.005′N 26°17.571′E, 400 m a.s.l., dry meadows (Fig. 18 D), 25.vi.2023, 1 ♂ (BFUS-CER000720), on *Echium italicum* L., D. Gradinarov leg.; NE of Balgarin Vill., 41°57.703′N 25°58.977′E, 223 m a.s.l., roadside vegetation, 25.vi.2023, 1 ♂ (BFUS-CER000721), 1 ♀ (BFUS-CER000722), on *Echium italicum* L., D. Gradinarov leg.

Notes: The Balkan endemic species *O. duponchelii* in Bulgaria has been reported mainly from the southern regions of the country (Migliaccio *et al.* 2007; Gradinarov *et al.* 2020). The host plant of this species appears to be *E. italicum* (Georgiev *et al.* 2005b) and the finding of a single specimen on *A. azurea* in the present study is rather accidental. The species seems not to be rare in Sakar Mountains, as it was found in four localities within several consecutive days of targeted searching.

***Phytoecia* (*Musaria*) *affinis tuerki* Ganglbauer, 1884** (Fig. 16; Fig. 19 F)

New data: SE of Knyazhevo Vill., 42°06.017′N 26°30.362′E, 102 m a.s.l., dirt road, riverine vegetation and xerothermic grasslands (Fig. 18 C), 07.vi.2020, 1 ♂ (BFUS-CER000723), D. Gradinarov & Y. Petrova leg.; near Ustremski Manastir Monastery, 42°01.814′N 26°25.947′E, 118 m a.s.l., riverine vegetation, 24.vii.2021, 2 ♂♂ (BFUS-

CER000724, BFUS-CER000725), 1 ♀ (BFUS-CER000726), on *Chaerophyllum byzantinum* Boiss., Y. Petrova leg.; W of Ustrem Vill., 42°01.357′N 26°26.900′E, 104 m a.s.l., riverine vegetation, agricultural field boundaries (Fig. 9 B), 01.vii.2022, 3 ♂♂ (BFUS-CER000727 – BFUS-CER000729), 3 ♀♀ (BFUS-CER000730 – BFUS-CER000732), on *Chaerophyllum byzantinum* Boiss., D. Gradinarov leg.; the same locality, 02.vii.2022, 4 ♂♂ (BFUS-CER000733 – BFUS-CER000736), 1 ♀ (BFUS-CER000737), on *Chaerophyllum byzantinum* Boiss., D. Gradinarov leg.; W of Ustrem Vill., 42°01.324′N 26°27.004′E, 103 m a.s.l., riverine vegetation, agricultural field boundaries (Fig. 18 F), 03.vii.2022, 2 ♂♂ (BFUS-CER000738, BFUS-CER000739), on *Chaerophyllum byzantinum* Boiss., D. Gradinarov leg.

Notes: In Bulgaria this subspecies of *Ph. affinis* (Harrer, 1784) has been recorded only in the most South-Eastern regions of the country (Bringmann 1998, as *Ph. Tuerki*, Georgiev *et al.* 2015, as *Ph. Tuerki*, Georgiev *et al.* 2018). The two specimens from Zidarovo Village (Strandzha Mts), reported by Georgiev *et al.* (2018) as *Ph. affinis affinis*, actually also belong to the subspecies *Ph. affinis tuerki* (BFUS Collection, examined specimens BFUS-CER000787 and BFUS-CER000788). This subspecies appears to be common in Strandzha and Sakar Mts, and in these regions its range does not overlap that of the nominative subspecies. In Sakar Mountains *Ph. affinis tuerki* is found almost exclusively on *Ch. byzantinum* (Apiaceae), which appears to be its host plant.

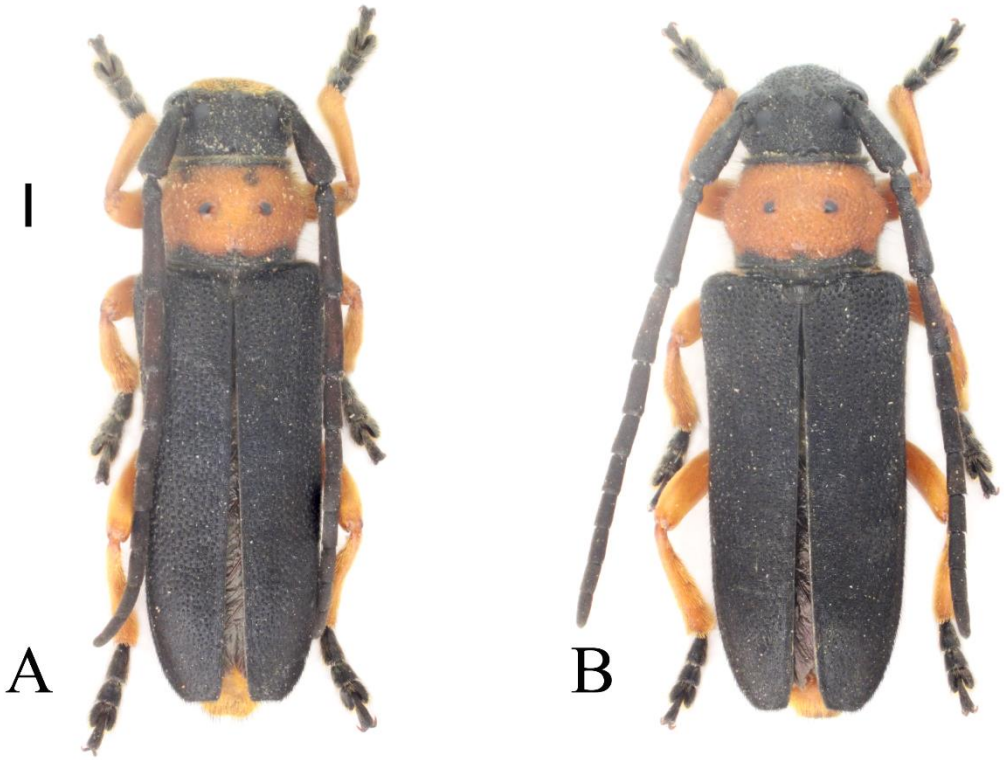

Fig. 16. *Phytoecia affinis tuerki*, Ustrem locality, Sakar Mts, 01.vii.2022. A – male (BFUS-CER000729); B – female (BFUS-CER000732). Scale bar: 1 mm.

***Phytoecia* (*Opsilia*) *coerulescens coerulescens* (Scopoli, 1763)**

New data: SE of Knyazhevo Vill., 42°06.017′N 26°30.362′E, 102 m a.s.l., dirt road, riverine vegetation and xerothermic grasslands (Fig. 18 C), 07.vi.2020, 1 ♂ (BFUS-CER000740), 1 ♀ (BFUS-CER000741), D. Gradinarov & Y. Petrova leg.; the same locality, 24.v.2023, 1 ♂ (BFUS-CER000742), D. Gradinarov & Y. Petrova leg.; SE of Knyazhevo Vill., 42°06.009′N 26°30.382′E, 105 m a.s.l., dirt road, riverine vegetation and xerothermic grasslands, 22.vi.2023, 1 ♂ (BFUS-CER000743), D. Gradinarov leg.; E of Oreshnik Vill.,

42°04.100′N 26°23.179′E, 278 m a.s.l., roadside verges, 09.vi.2020, 1 ♂ (BFUS-CER000744), 1 ♀ (BFUS-CER000745), D. Gradinarov & Y. Petrova leg.; W of Ustrem Vill., 42°01.434′N 26°26.828′E, 107 m a.s.l., meadows, 23.vi.2023, 1 ♂ (BFUS-CER000746), 1 ♀ (BFUS-CER000747), D. Gradinarov leg.; N of Sakartsi Vill., 42°03.005′N 26°17.571′E, 400 m a.s.l., dry meadows (Fig. 18 D), 25.vi.2023, 1 ♂ (BFUS-CER000748), 1 ♀ (BFUS-CER000749), on *Echium italicum* L., D. Gradinarov leg.; Maritsa Riv. Valley, N of Lyubimets, left bank of Maritsa Riv., 41°52.064′N 26°05.046′E, 64 m a.s.l., riverine vegetation, 24.v.2021, 1 ♂ (BFUS-CER000750), 2 ♀♀ (BFUS-CER000751, BFUS-CER000752), on *Anchusa procera* Bess., D. Gradinarov leg.; N of Yerusalimovo Vill., 41°54.303′N 26°06.074′E, 174 m a.s.l., roadsive vegetation, 26.v.2023, 1 ♀ (BFUS-CER000753), D. Gradinarov leg.

******Phytoecia* (*Phytoecia*) *caerulea caerulea* (Scopoli, 1772)**

New data: SE of Ustrem Vill., the road to Radovets Vill., 41°58.346′N 26°28.966′E, 218 m a.s.l., roadside vegetation, 01.v.2021, 1 ♂ (BFUS-CER000754), on *Lepidium* sp., D. Gradinarov & Y. Petrova leg.; the same locality, 05.v.2021, 1 ♂ (BFUS-CER000755), D. Gradinarov & Y. Petrova leg.; NE of Planinovo Vill., 41°58.536′N 26°23.316′E, 347 m a.s.l., roadside verges, 02.v.2021, 1 ♂ (BFUS-CER000756), 2 ♀♀ (BFUS-CER000757, BFUS-CER000758), on Brassicaceae, Y. Petrova leg.; NE of Planinovo Vill., 41°58.568′N 26°23.199′E, 341 m a.s.l., meadows, edge of oak forest, 02.v.2021, 1 ♂ (BFUS-CER000759), on *Barbarea* sp., D. Gradinarov leg.

******Phytoecia* (*Phytoecia*) *pubescens* Pic, 1895** (Fig. 17)

New data: SE of Knyazhevo Vill., 42°06.017′N 26°30.362′E, 102 m a.s.l., dirt road, riverine vegetation and xerothermic grasslands (Fig. 18 C), 07.vi.2020, 1 ♂ (BFUS-CER000760), 1 ♀ (BFUS-CER000761), on Apiaceae, D. Gradinarov & Y. Petrova leg.; SE of Knyazhevo Vill., 42°06.015′N 26°30.349′E, 100 m a.s.l., riverine grasslands, 07.vi.2020, 1 ♂ (BFUS-CER000762), on Apiaceae, D. Gradinarov & Y. Petrova leg.; SW of Yerusalimovo Vill., 41°53.542'N 26°05.698'E, 117 m a.s.l., roadside vegetation, pasture (Fig. 9 F), 11.v.2024, 1 ♂ (BFUS-CER000763), net sweeping, D. Gradinarov leg.; NE of Izvorovo Vill., 41°59.077'N 26°09.873'E, 496 m a.s.l., meadows and shrubs near a roadside water tap (Fig. 10 B), 08.v.2024, 1 ♂ (BFUS-CER000764), D. Gradinarov & Y. Petrova leg.; SW of Hlyabovo Vill., 42°03.102'N 26°13.591'E, 383 m a.s.l., roadside grasslands (Fig. 18 E), 12.v.2024, 1 ♂ (BFUS-CER000765), 1 ♀ (BFUS-CER000766), D. Gradinarov & Y. Petrova leg.

Notes: In Bulgaria, the species is common along the southern Black Sea Coast and in Strandzha Mts (Heyrovsky 1940, as *Ph. manicata* Rehe. v. *pubescens* Pic, Simandl 2002, as *Ph. glaphyra* Pic, Georgiev & Stojanova 2003, Georgiev *et al.* 2015, 2018). It seems that the species is not rare in Sakar Mountains either.

******Phytoecia* (*Phytoecia*) *pustulata pustulata* (Schrank, 1776)**

New data: E of Oreshnik Vill., 42°04.100′N 26°23.179′E, 278 m a.s.l., roadside verges, 09.vi.2020, 1 ♂ (BFUS-CER000767), 1 ♀ (BFUS-CER000768), D. Gradinarov & Y. Petrova leg.; W of Ustrem Vill., 42°01.453′N 26°27.058′E, 100 m a.s.l., riverine meadows, walnut trees (*Juglans regia* L.), 03.v.2021, 1 ♂ (BFUS-CER000769), 1 ♀ (BFUS-CER000770), on *Achillea* sp., D. Gradinarov leg.; the same data, 1 ♀ (BFUS-CER000771), on Brassicaceae, D. Gradinarov leg.; NW of Yerusalimovo Vill., 41°53.913′N 26°05.529′E, 140 m a.s.l., xerothermic vegetation, 26.v.2023, 1 ♂ (BFUS-CER000772), Y. Petrova leg.; SE of Glavan Vill., 42°01.791'N 26°08.744'E, 616 m a.s.l., dry meadows next to an oak forest, 11.v.2024, 1 ♂ (BFUS-CER000773), D. Gradinarov & Y. Petrova leg.

******Phytoecia* (*Phytoecia*) *virgula virgula* (Charpentier, 1825)**

New data: NW of Yerusalimovo Vill., 41°53.913′N 26°05.529′E, 140 m a.s.l., xerothermic vegetation, 26.v.2023, 1 ♀ (BFUS-CER000774), D. Gradinarov leg.; SW of Kostur Vill., 41°57.199′N 26°15.032′E, 404 m a.s.l., roadside vegetation, oak forest, 26.v.2023, 1 ♀ (BFUS-CER000775), D. Gradinarov & Y. Petrova leg.

***Pilemia* (*Pseudopilemia*) *hirsutula hirsutula* (G. F. Frölich, 1793)**

New data: SE of Sinapovo Vill., 42°07.166′N 26°28.382′E, 116 m a.s.l., riverine meadows, 24.v.2023, 1 ♂ (BFUS-CER000776), Y. Petrova leg.

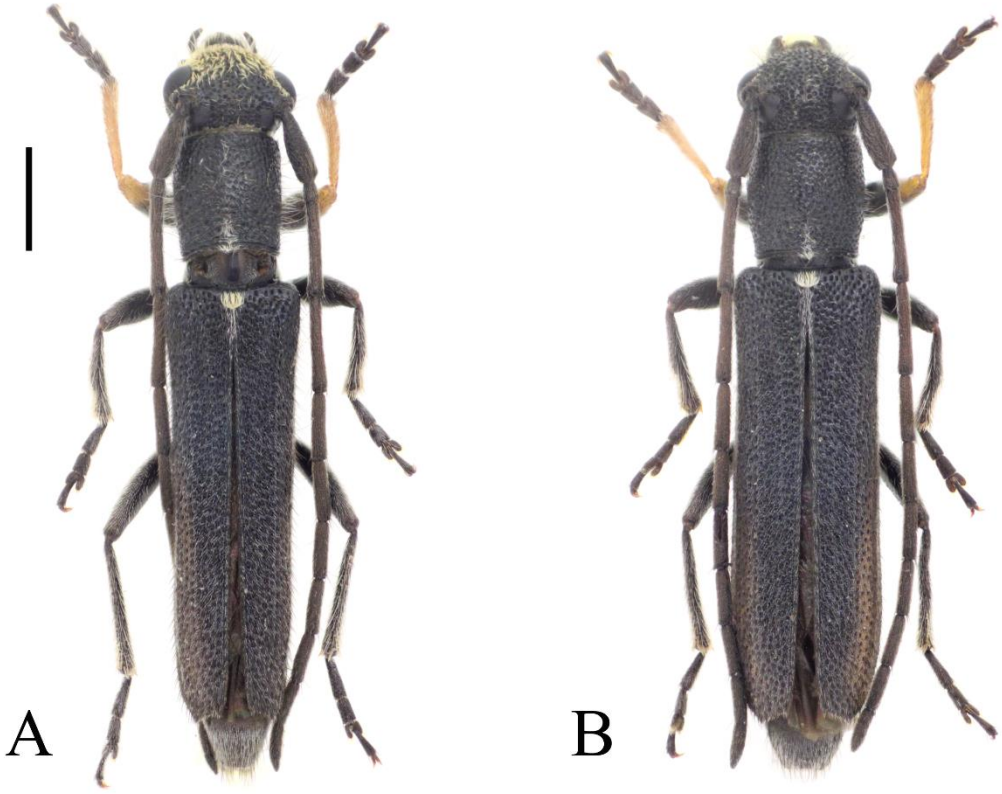

Fig. 17. *Phytoecia pubescens*, Hlyabovo locality, Sakar Mts, 12.v.2024. A – male (BFUS-CER000765); B – female (BFUS-CER000766). Scale bar: 1 mm.

Tribe Pogonocherini Mulsant, 1839

***Pogonocherus perroudi perroudi* Mulsant, 1839**

Literature data: between Cherepovo and Balgarska poliana Villages; near Pastrogor Vill. (Georgiev *et al.* 2005b: 134).

During our field research, 66 species of the Cerambycidae family were collected and identified. Of these, 49 are reported for the first time for the territory of Sakar Mountains. Four species (*Brachyta balcanica*, *Exocentrus lusitanus*, *E. punctipennis punctipennis* and *Pogonocherus perroudi perroudi*) are included in the species list only from literature data. Thus, the number of known species for the mountain is currently 70. This number is smaller than those reported for Sarnena Sredna Gora Mountains (98 species) (Gradinarov & Petrova 2020) and the Bulgarian part of Strandzha Mountains (136 species and subspecies) (Georgiev *et al.* 2018), the subject of special studies on the longhorn beetles in the recent years. Undoubtedly, the number of Cerambycidae species from the mountain is greater and further studies of the species composition are desirable.

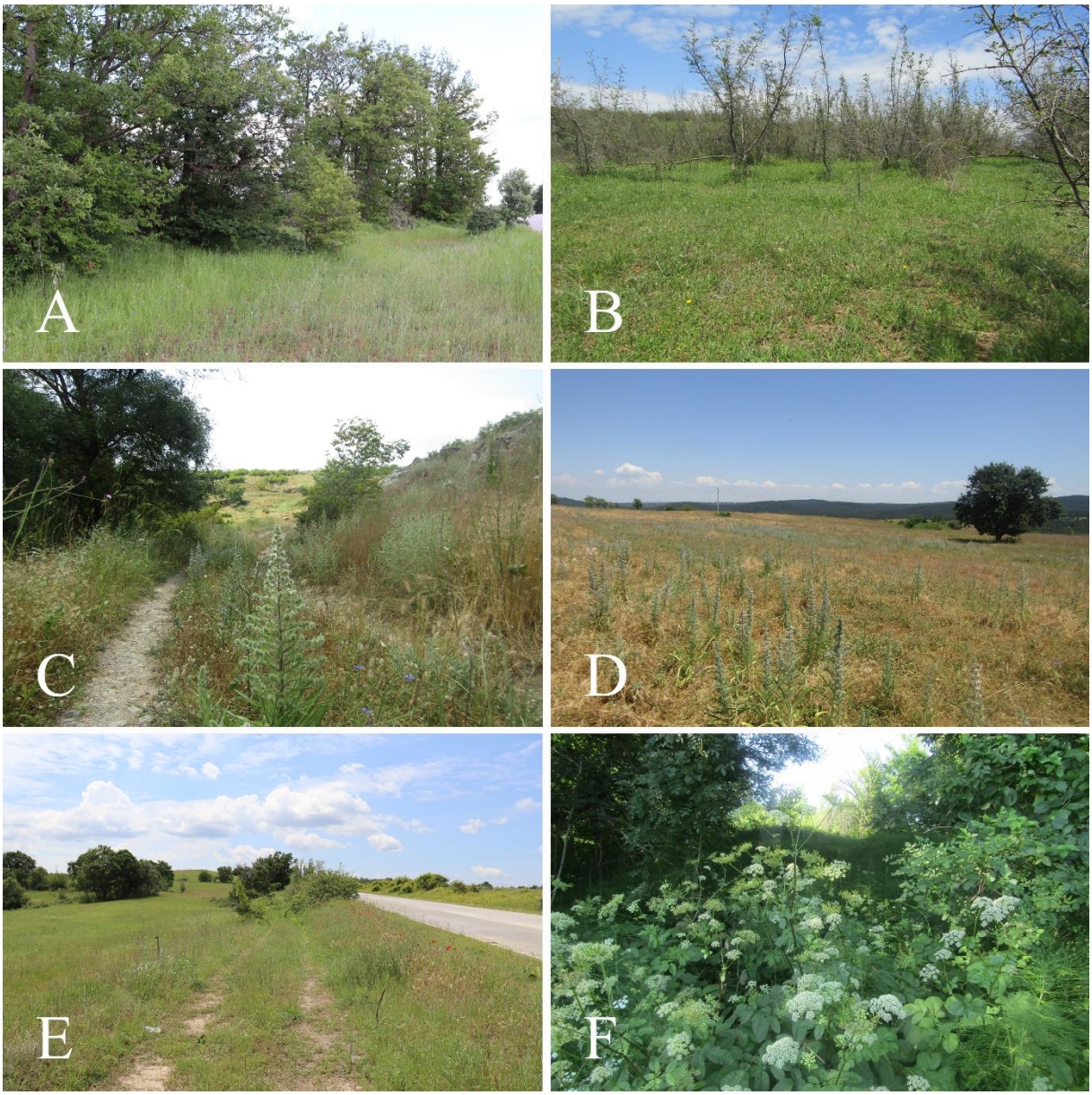

Fig. 18. Habitats of some species of Cerambycidae in Sakar Mts. A – edge of oak forest SE of Glavan Village, 11.v.2024, habitat of *Morimus asper funereus*; B – xerothermic vegetation with *Paliurus spina-christi* S of Ustrem Village, 05.v.2021, habitat of *Cortodera differens magdae* and *Dorcadion pedestre pedestre*; C – riverine vegetation and xerothermic grasslands SE of Knyazhevo Village, 22.vi.2023, habitat of *Alosterna tabacicolor*, *Pseudovadonia livida setosa*, *Agapanthia cardui*, *A. dahli*, *A. villosoviridescens gazanchidisi*, *A. violacea*, *Oxylia duponchelii*, *Phytoecia coerulescens*, *Ph. pubescens* e.g.; D – dry meadows with *Echium italicum* N of Sakartsi Village, 25.vi.2023, habitat of *O. duponchelii* and *Ph. coerulescens*; E – roadside grasslands SW of Hlyabovo Village, 12.v.2024, habitat of *Ph. pubescens*; F – riverine vegetation with *Chaerophyllum byzantinum* W of Ustrem Village, 03.vii.2022, habitat of *Ph. affinis tuerki*.

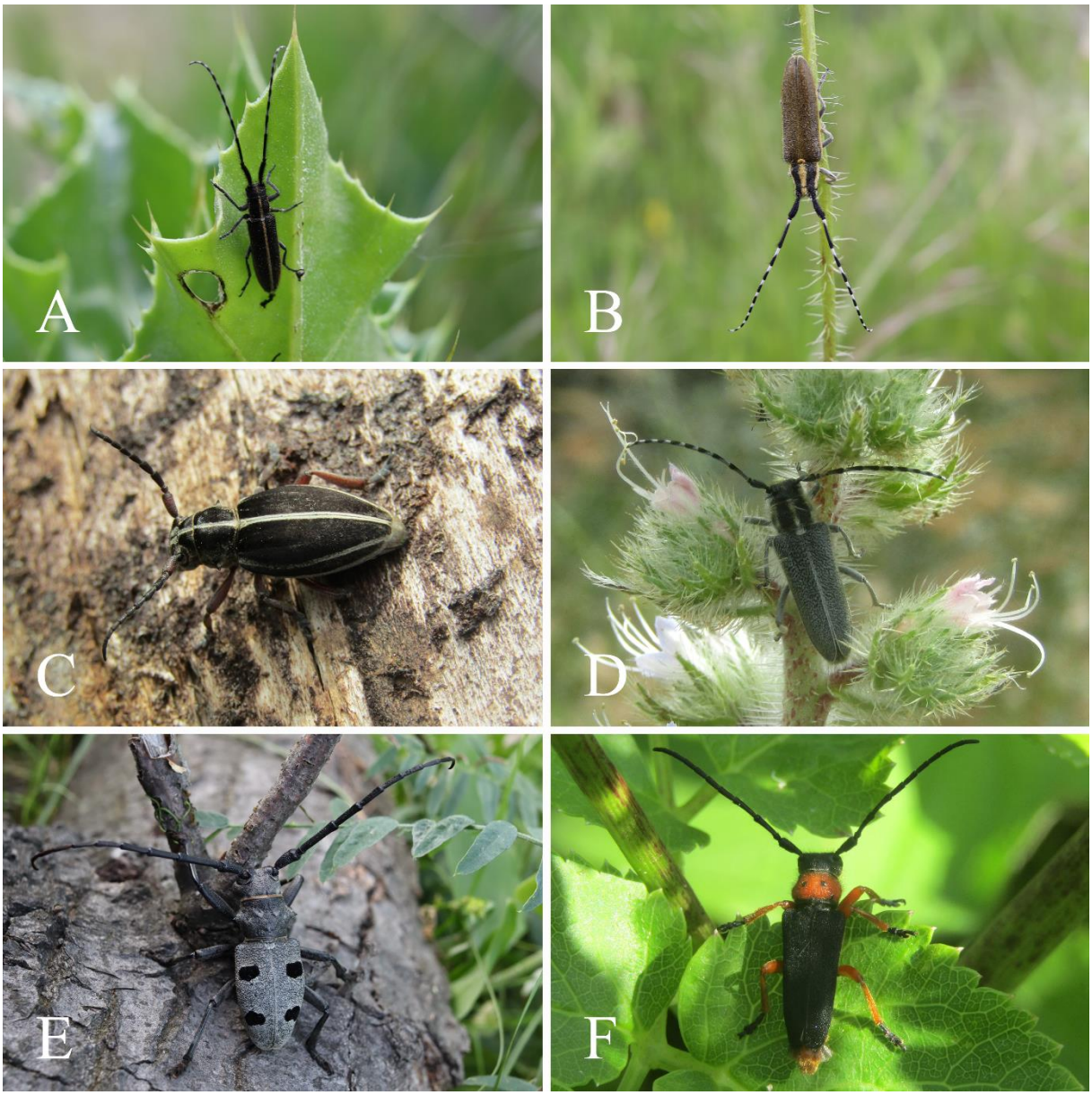

Fig. 19. Species of Cerambycidae (Lamiinae) in natural environment in Sakar Mts. A – *Agapanthia cardui* on *Silybum marianum*, Ustrem Village, 07.v.2024; B – *Agapanthia boeberi cynarae* on stem of *Papaver* sp., NE of Izvorovo Village, 08.v.2024; C – *Dorcadion tauricum tauricum* on pine log on the ground, W of Ustrem Village, 01.v.2021; D – *Oxylia duponcheli* on *Echium italicum*, SE of Knyazhevo Village, 22.vi.2023; E – *Morimus asper funereus* on trunk of *Quercus* sp., SE of Glavan Village, 11.v.2024; *Phytoecia affinis tuerki* on *Chaerophyllum byzantinum*, SE of Ustrem Village, 02.vii.2022.

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