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SECOND CONTRIBUTION TO KNOWLEDGE OF LONGHORN BEETLES (COLEOPTERA: CERAMBYCIDAE) FROM MT. FRUŠKA GORA

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ABSTRACT: Determinated of new longhorn beetle material (Coleoptera: Cerambycidae) collected on Mt. Fruška Gora during the period of 2002 - 2005 has shown the presence of 29 species and three subspecies. Of that number, one species is new to the Serbian fauna, seven species or subspecies are registered for the first time for Mt. Fruška Gora, three species are Balkan endemics, and 10 species or subspecies are rare in Serbia. The presence of *Icosium tomentosum atticum* Ganglbauer, 1881 in Serbia is confirmed by this entomological investigation.

KEY WORDS: Cerambycidae, endemic and rare species, Balkan Mt. Fruška Gora

INTRODUCTION

Mount Fruška Gora is in many respects (geomorphological, faunistic, floristic, etc.) a special mountain massif. It is cut off from the rest of the Dinarid system and is surrounded by lowland.

Since the 1950's a few researchers investigated the mountain's entomofauna (ADAMOVIĆ, 1950, 1965; MIKŠIĆ, 1963; ILIĆ, 2005; PIL and STOJANOVIĆ, 2005a, b).

Until now 126 cerambycid species were registered on this massif. That number includes some species which were there noted for the first time for Serbia, as well as rare and endemic species.

MATERIAL AND METHODS

Material was collected on field trips on Mt. Fruška Gora during the period of 2002 - 2005.

This material was determinated using a key constructed by U. BENSE (1995).

Data on distribution and bionomy were summarized and analyzed. The presence of taxa in Serbia is given in part according to ALTHOFF and DANILEVSKI (1997).

RESULTS

The 29 species and three subspecies registered on Mt. Fruška Gora are indicated below.

Familia CERAMBYCIDAE
Subfam. LEPTURINAE
Tribus Rhagiini

1. *Dinoptera collaris* (Linnaeus, 1758)
New data: Mt. Fruška Gora: Iriški venac, 01.06.2003, 1♂,1♀ upisati simbole; Čortanovci, 20.05.2004, 1♂, 1♀)

2. *Rhagium* (*Megarhagium*) *sycophanta* (Schrank, 1781)
New data: Mt. Fruška Gora: Osovlje, 14.06.2005, 1♀)

Tribus Lepturini

3. *Alosterna tabacicolor* (Degeer, 1775)
New data: Mt. Fruška Gora: Ledinci, 05.06.2002, 1♂; Iriški venac, 01.06.2003, 2♂s, 2♀s

4. *Anoplodera rufipes* (Schrank, 1783)
New data: Mt. Fruška Gora: Iriški venac, 01.06.2003, 1♀

5. *Anoplodera sexguttata* (Fabricius, 1775)
New data: Mt. Fruška Gora: Paragovo, 21.07.2005, 1♂, 1♀

6. *Cortodera flavimana* (Waltl, 1838)
New data: Mt. Fruška Gora: Iriški venac, 01.06.2003, 4♂, 3♀

7. *Cortodera villosa* Heyden, 1876
New data: Mt. Fruška Gora: Iriški venac, 01.06.2003, 1♀

Leptura aurulenta (Fabricius, 1792)
New data: Mt. Fruška Gora: Stražilovo, 14.07.2005, 1♀; Paragovo, 21.07.2005, 1♂; Iriški venac, 25.08.2005, 1♀

8. *Lepturalia nigripes* (Degeer, 1775)
New data: Mt. Fruška Gora: Stražilovo, 14.07.2005, 1♂; Osovlje-Letenka, 27.07.2005, 3♂, 2♀

9. *Pachytodes cerambyciformis* (Schrank, 1781)
New data: Mt. Fruška Gora: Stražilovo, 14.07.2005, 1♀

10. *Pachytodes erraticus* (Dalman, 1817)
New data: Mt. Fruška Gora: Paragovo, 21.07.2005, 1♂, 1♀; Osovlje-Letenka, 27.07.2005, 1♀

11. *Rutpela maculata* Poda, 1761
New data: Mt. Fruška Gora: Paragovo, 21.07.2005, 3♂

12. *Stenurella bifasciata* (Müller, 1776)
New data: Mt. Fruška Gora: Iriški venac, 01.06.2003, 1♀; Paragovo, 21.07.2005, 1♂, 2♀

13. *Vadonia hirsuta* (Daniel et Daniel,1891)
New data: Mt. Fruška Gora: Iriški venac, 01.06.2003, 1♂, 1♀

14. *Vadonia insidiosa* Holzschuh, 1984
New data: Mt. Fruška Gora: Ledinci, 05.06.2002, 1♂, 1♀; Kurjakovac, 14.06.2005, 3♂, 1♀

15. *Vadonia steveni* (Sperk, 1835)
New data: Mt. Fruška Gora: Iriški venac, 01.06.2003, 1♀

16. *Vadonia unipunctata unipunctata* (Fabricius, 1787)
New data: Mt. Fruška Gora: Kurjakovac, 14.06.2005, 3♂, 1♀

Subfam. CERAMBYCINAE
Tribus Achrysonini

17. *Icosium tomentosum atticum* Ganglbauer, 1881
New data: Mt. Fruška Gora: Osovlje, 14.06.2005, 1♂

Tribus Graciliini

18. *Axinopalpis gracilis gracilis* (Krynicki, 1832)
New data: Mt. Fruška Gora: Osovlje, 14.06.2005, 1♂, 1♀

Tribus Clytini

19. *Clytus arietis* (Linnaeus, 1758)
New data: Mt. Fruška Gora: Iriški venac, 01.06.2003, 1♂, 1♀

20. *Neoclytus acuminatus* (Fabricius, 1775)
New data: Mt. Fruška Gora: Iriški venac, 01.06.2003, 1♂

21. *Plagionotus arcuatus* (Linnaeus, 1758)
New data: Mt. Fruška Gora: Ledinci, 05.06.2002, 2♂, 1♀

22. *Plagionotus floralis* (Pallas, 1773)
New data: Mt. Fruška Gora: Ledinci, 05.06.2002, 2♂, 1♀; Stražilovo, 14.07.2005, 3♂, 2♀

Subfam. LAMIINI
Tribus Acanthocinini

23. *Leiopus nebulosus* (Linnaeus, 1758)
New data: Mt. Fruška Gora: Osovlje-Letenka, 14.06.2005, 1♂, 1♀; 27.07.2005, 2♂, 1♀

24. *Exocentrus adspersus* Mulsant, 1846
New data: Mt. Fruška Gora: Iriški venac, 01.06.2003, 3♂, 1♀; Ledinci, 10.06.2004, 1♂, 1♀; Osovlje, 14.06.2005, 1♂, 1♀

25. *Exocentrus lusitanus* (Linnaeus, 1767)
New data: Mt. Fruška Gora: Ledinci, 23.05.2002, 7♂, 7♀; 07.06.2002, 1♂, 1♀; 15.06.2002, 1♂

26. *Exocentrus punctipennis* Mulsant et Guillebeau, 1856
New data: Mt. Fruška Gora: Ledinci, 10.06.2004, 1♂, 1♀; Osovlje-Letenka, 27.07.2005, 7♂, 8♀

Tribus Acanthoderini

27. *Aegomorphus krüperi* Kraatz, 1859
New data: Mt. Fruška Gora: Osovlje-Letenka, 27.07.2005, 5♂, 1♀

Tribus Rhodopini

28. *Anaesthetis testacea* Fabricius, 1781
New data: Mt. Fruška Gora: Ledinci, 10.06.2004, 1♂

Tribus Saperdini

29. *Saperda octopunctata* (Scopoli, 1792)
New data: Mt. Fruška Gora: Osovlje, 14.06.2005, 1♂

30. *Stenostola ferrea* (Schrank, 1776)
New data: Mt. Fruška Gora: Osovlje, 14.06.2005, 2♂

Tribus Agapanthiini

31. *Agapanthia villosoviridescens* (Degeer, 1775)
New data: Mt. Fruška Gora: Iriški venac, 01.06.2003, 1♂

DISCUSSION AND CONCLUSIONS

Determination of new longhorn beetle material (Coleoptera: Cerambycidae) from Mt. Fruška Gora revealed the presence of 29 species and three subspecies from three subfamilies and 10 tribes.

One species is recorded as **new to the fauna of Serbia**: *Vadonia insidiosa* Holzschuh, 1984. Until now, *Vadonia insidiosa* Holzschuh, 1984 was recorded only from Greece. This species differs from the similar *Vadonia aspoeckorum* Holzschuh, 1975 in the specific shape of the top of the penis, which is with a distinct swelling (Fig. 1).

The case of *Icosium tomentosum atticum* Ganglbauer, 1881 is very confusing. ALTHOFF and DANILEVSKI (1997) indicate its presence in Serbia, but do not give a precise locality. According to BENSE (1995), this species is present along the Croatian Adriatic coast, as well as in Montenegro and Greece. To judge from the Fauna Europaea site, this species is recorded in the following places:

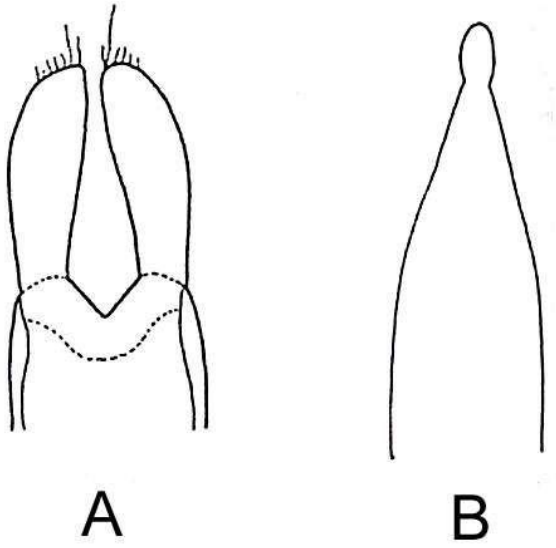

Fig. 1. Shape of parameres (A) and penis (B) of *Vadonia insidiosa* Holzschuh, 1984 (after BENSE, 1995).

Bosnia and Herzegovina, Crete, Croatia, Cyprus, the Dodecanese Islands, the French mainland, the Greek mainland, the Italian mainland, Malta and Yugoslavia (including Serbia, Kosovo, Vojvodina, and Montenegro). Also, ALTHOFF and DANILEVSKI (1997) in their explanation of abbreviations of European countries and territories considered in the checklist of longhorn beetles of Europe omit Montenegro, either as a separate territory or in union with Serbia. According to ILIĆ (2005) the record of this species in Serbia is suspicious. As its distribution is Mediterranean it may be the case that the given species was recorded in Montenegro until now and can be considered a new species for the Serbian fauna. In any case, our find is a confirmation of its presence in Serbia. The species develops on conifers (Cupressaceae: *Juniperus, Cupressus, Thuja, Callitrix*). MIKŠIĆ and GEORGIJEVIĆ (1973) recorded development on *Juniperus oxycedrus, J. lycea*, and *J. phoenicea*. The life-cycle lasts two years. Larvae feed under bark at first, later on dead or moribund hosts. Adults can be found in June and July. It is a nocturnal and crepuscular species. Mimicry of this species is very common.

Six species and one subspecies are recorded for the first time for Mt. Fruška Gora: *Anoplodera rufipes* (Schrank, 1783), *Anoplodera sexguttata* (Fabricius, 1775), *Cortodera flavimana* (Waltl, 1838), *Cortodera villosa* Heyden, 1876, *Axinopalpis gracilis gracilis* (Krynicki, 1832), *Leiopus nebulosus* (Linnaeus, 1758) and *Exocentrus punctipennis* Mulsant & Guillebeau, 1856.

Eight species and two subspecies that are rare in our country were recorded: *Lepturalia nigripes* (Degeer, 1775), *Vadonia steveni* (Sperk, 1835), *Vadonia unipunctata unipunctata* (Fabricius, 1787), *Axinopalpis gracilis gracilis* (Krynicki, 1832), *Exocentrus lusitanus* (Linnaeus, 1767), *Exocentrus punctipennis* Mulsant & Guillebeau, 1856, *Aegomorphus krüperi* Kraatz, 1859, *Anaesthetis testacea* Fabricius, 1781, *Saperda octopunctata* (Scopoli, 1792), and *Stenostola ferrea* (Schrank, 1776).

Some endemic species, predomonantly Balkan endemics, were noticed here: *Vadonia hirsuta* (Daniel & Daniel, 1891), *Vadonia insidiosa* Holzschuh, 1984 and *Aegomorphus krüperi* Kraatz, 1859. Some of them were registered at only one locality or in only one Balkan state, e.g., *Vadonia hirsuta* (Daniel & Daniel, 1891) in Romania (Dobruja) or *Vadonia insidiosa* Holzschuh, 1984 in Greece.

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ДРУГИ ПРИЛОГ ПОЗНАВАЊУ СТРИЖИБУБА (COLEOPTERA: CERAMBYCIDAE) НА ФРУШКОЈ ГОРИ

Н. Пил и Д. Стојановић

И З В О Д

Детерминацијом материјала сакупљеног током 2002-2005. године на Фрушкој гори утврђен је број од 29 врста и три подврсте стрижибуба (Coleoptera: Cerambycidae) из три подфамилије и 10 трибуса.

Vadonia insidiosa Holzschuh, 1984 је нова врста за фауну Србије.

Потврђено је присуство *Icosium tomentosum atticum* Ganglbauer, 1881, у Србији.

Шест врста и једна подврста по први пут су регистроване на Фрушкој гори: *Anoplodera rufipes* (Schrank, 1783), *Anoplodera sexguttata* (Fabricius, 1775), *Cortodera flavimana* (Waltl, 1838), *Cortodera villosa* Heyden, 1876, *Axinopalpis gracilis gracilis* (Krynicki, 1832), *Leiopus nebulosus* (Linnaeus, 1758), *Exocentrus punctipennis* Mulsant et Guillebeau, 1856.

Нађена су три балканска ендемита: *Vadonia hirsuta* (Daniel et Daniel, 1891), *Vadonia insidiosa* Holzschuh, 1984 и *Aegomorphus krüperi* Kraatz, 1859.

Утврђено је осам ретких врста и две подврсте: *Lepturalia nigripes* (Degeer, 1775), *Vadonia steveni* (Sperk, 1835), *Vadonia unipunctata unipunctata* (Fabricius, 1787), *Axinopalpis gracilis gracilis* (Krynicki, 1832), *Exocentrus lusitanus* (Linnaeus, 1767), *Exocentrus punctipennis* Mulsant et Guillebeau, 1856, *Aegomorphus krüperi* Kraatz, 1859, *Anaesthetis testacea* Fabricius, 1781, *Saperda octopunctata* (Scopoli, 1792), *Stenostola ferrea* (Schrank, 1776).

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