

CONTRIBUTION TO THE KNOWLEDGE OF THE FAUNA OF BARK BEETLES (COLEOPTERA: CURCULIONIDAE: SCOLYTINAE) ON DECIDUOUS WOODY PLANTS IN SERBIA

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Abstract

Not much information has been published on the distribution and hosts of bark beetles on deciduous woody plants in Serbia. The present paper gives the localities and hosts in Serbia for 23 species of these insects belonging to 10 genera and seven tribes.

KEY WORDS: Curculionidae, Scolytinae, deciduous woody plants

Introduction

Bark beetles are small insects (0.5-12 mm) that usually develop under the bark or in the wood of various woody plants. Although they have been studied to some extent in Serbia to date (Živojinović, 1950, 1954, 1960, 1961; Tomić, 1957; Živojinović & Živojinović, 1969; Radonjić & Tomić, 1995; Roganović, 2003; Marković, 2013), it cannot be said that they have as yet been the subject of detailed faunistic investigation. Among other reasons, this is because the bark beetles of deciduous woody plants have still been very little studied in Serbia. Thus, we still do not know all the species of bark beetles present on these plants in Serbia, the regions of the country where they are distributed, or the species of plants on which they are found.

To add to the available information on the fauna, distribution and hosts of bark beetles on deciduous woody plants in Serbia, this group of insects has been investigated in our country over the past 20 years and more.

Many new facts about them were learned in these investigations and some of the obtained data have already been published (Marković & Stojanović, 1997a, 1997b, 1997c, 1999, 2000a, 2000b, 2000c, 2003, 2011, 2012, 2014; Marković, 2005; Marković *et al.*, 1997; Stojanović & Marković, 2001, 2007). However, not much information on their distribution and hosts gathered in the given investigations has been published to date. Some of this information will be presented in this paper.

Material and Methods

The data presented here were obtained during the period of collecting from 1991 to 2014 at 75 localities in Serbia. Usually by the method of following a planned itinerary, trunks were found that were inhabited by adults, larvae or pupae of bark beetles. Bark from the affected parts of the trunks was removed with a knife. If an imago was found under the bark, it was put in a glass bottle and killed by ether. If larvae or pupae were found under the bark or in the wood, 30-50-cm-long pieces of wood were cut off from the affected parts of the trunk and brought to the laboratory, where they were put in wooden photoelectors in order to obtain bark beetle imagoes. The photoelectors were examined daily during the period of imago flight. Emerging bark beetle imagoes were collected, killed by ether, prepared and identified using the keys of Balachowsky (1949), Stark (1952), Karaman (1971), and Pfeffer (1995).

In addition to bark beetle imagoes obtained as described above, a certain number of imagoes were captured in a catcher or in a Malaise trap during the collection of other groups of insects.

All of the obtained and captured imagoes of bark beetles are housed in the insect collection of the Department of Forest Protection of Belgrade University's Faculty of Forestry.

Results and Discussion

For us in Serbia, deciduous trees are highly significant because they are extensively represented in our forests, parks and tree-rows. It is speculated that about 40 to 45 species of bark beetles develop on them, of which 35 species have been found to date (Marković & Stojanović, 1997a, 1997b, 1997c, 1999, 2000a, 2014). Unfortunately, although they are constant species that have for the most part long been known in Serbia, very few data, even for species that are known to be widely distributed in Serbia, have been published on their localities and hosts in our country.

In the course of our investigation, we gathered a fairly large body of new information on the distribution and hosts of bark beetles on deciduous woody plants in Serbia. In the list given below, our previously unpublished data on the range and distribution of these insects is given for 23 species belonging to 10 genera and 7 tribes (*Scolytus* Geoffroy 1762, 10 species; *Ernoporicus* Berger 1916, 2; *Hylesinus* Fabricius 1801, 2; *Taphrorychus* Eichhoff 1878, 2; *Xyleborus* Eichhoff 1864, 2; *Ernoporus* Thomson 1859, 1; *Pteleobius* Bedel 1888, 1; *Trypodendron* Stephens 1830, 1; *Xyleborinus* Reitter 1913, 1; and *Xylocleptes* Ferrari 1867, 1). Not included in this list are species of the genus *Trypophloeus* Fairmaire 1868, which we recorded on deciduous trees at a number of localities in Serbia, but which owing to certain difficulties we have unfortunately not yet been able to identify.

All of the listed species of bark beetles are for the most part widely distributed on the Balkan Peninsula and had been found in Serbia before the outset of our research (Marković & Stojanović, 1997b; Pfeffer, 1995). The

majority of them are common species in Serbia. For this reason, it is quite surprising that they were very rarely mentioned in previous papers dealing with the bark beetle fauna of Serbia. It is probable that the insects in question were very little studied in Serbia prior to our investigations because they are bark beetles of deciduous tree species that are rarer and economically less important than coniferous hosts.

In the list that follows, taxa are arranged in alphabetical order. For each species in the list, we give the localities, dates and hosts on which they were found, together with the number of imagoes collected, obtained or caught.

List of bark beetle taxa recorded on deciduous woody plants in Serbia

Tribe Cryphalini Lindemann, 1876

Genus *Ernoporicus* Berger, 1916

E. caucasicus (Lindemann, 1876)

Mt. Avala 3.9.2005, *Tilia* sp. 1 ex.

E. fagi (Fabricius, 1798)

Aleksinac: Bovan Lake – Osoja 2.5.1996, *Fagus moesiaca* (K. Malý) Czeczott 10 ex.; Belgrade: Dedinje – Hajd Park 2.9.2001, *Tilia cordata* Mill. 1 ex., Veliki Mokri Lug – Stepin Gaj 14.5.1997, *Tilia* sp. 1 ex.; Sokobanja: Očno 10.8.1996, *Tilia* sp. 5 ex.

Genus *Ernoporus* Thomson, 1859

E. tilliae (Panzer, 1793)

Mt. Avala 30.6.1992, *Tilia* sp. 46 ex., 3.6.2005, *Tilia* sp. 8 ex.; Belgrade: Boljevci 17.5.1997, *Tilia* sp. 2 ex., Grocka 12.6.2004, 1 ex. in flight, Košutnjak 11.6.1991, *Hibiscus* sp. 47 ex., 12.3.1993, 18. ex., Topčider Park 6.5.1993, *Hibiscus* sp. 8 ex., Topčider Cemetery 11.6.1991, *Hibiscus* sp. 1 ex., Vinča 10.5.1998, 2 ex. in flight; Obrenovac: Draževac 22.5.1992, *Tilia* sp. 8 ex.

Tribe Dryocoetini Lindemann, 1876

Genus *Xylocleptes* Ferrari, 1867

X. bispinus (Duftschmid, 1825)

Aleksinac: Brđanka 3.1.1994, *Clematis vitalba* L. 4 ex., Logorište 25.9.1993, *C. vitalba* 10 ex., Rujevica 28.1.1994, *C. vitalba* 9 ex., Vakup – Paniče 28.1.1994, *C. vitalba* 1 ex.; Arandelovac: the village of Banja – Zmajevac 28.4.1992, 1 ex. in flight; Belgrade: Banovo Brdo 20.8.2001, *C. vitalba* 1 ex., the Gazela Bridge vicinity 18.3.1996, *C. vitalba* 17 ex., Košutnjak 11.2.1993, *C. vitalba* 10 ex., 2.2.1996, *C. vitalba* 7 ex., Neimar 25.4.1996, 1 ex. in flight, Progar – Bojčin Forest 10.4.1994, 1 ex. in flight, 27.7.1995, *C. vitalba* 9 ex., Topčider Park 26.4.1997, *C. vitalba* 7 ex., Veliki Mokri Lug – Stepin Gaj 7.3.1993, *C. vitalba* 4 ex., 11.5.1997, 2 ex. in flight; Bor: Selište 23.9.1993, *C. vitalba* 6 ex.; Goč: Gvozdac 6.5.2001, *C. vitalba* 1 ex.; Indija: Stari Slankamen – Koševac 11.4.2009, 2 ex. in flight; Smederevska Palanka: Mikulja 25.10.1994, *C. vitalba* 16 ex.

Tribe Hylesinini Erichson, 1836

Genus *Hylesinus* Fabricius, 1801*H. fraxini* (Panzer, 1779)

Aleksinac: Bovan Lake – Osoja 2.5.1996, *Fraxinus* sp. 5 ex.; Mt. Avala 9.4.1996, 1 ex. in flight, 29.4.2005, *Fraxinus* sp. 9 ex.; Belgrade: Ada Ciganlija 12.7.1995, *Fraxinus* sp. 2 ex., 13.7.1995, *Fraxinus* sp. 21 ex., 3.2.1996, *Fraxinus* sp. 3 ex., 19.4.1997, 1 ex. in flight, Banovo Brdo 7.8.1995, 1 ex. in flight, Boljevci – Crni Lug 28.2.1998, *Fraxinus* sp. 15 ex., Grocka – Begaljica 9.9.1997, *Fraxinus* sp. 5 ex., Košutnjak 21.2.1992, *Fraxinus* sp. 3 ex., 15.4.1994, *Fraxinus* sp. 21 ex., 4.3.1995, *Fraxinus* sp. 19 ex., 13.3.1995, 1 ex. in flight, 12.4.1996, 2 ex. in flight, 13.3.1997, *Fraxinus* sp. 9 ex., 19.6.2005, *Fraxinus* sp. 11 ex., Topčider Park 4.5.1997, *Fraxinus* sp. 4 ex., Veliki Mokri Lug – Stepin Gaj 22.6.1996, *F. pennsylvanica* Marshall 12 ex., 11.5.1997, *Fraxinus* sp. 5 ex., 4.7.1997, *F. pennsylvanica* 408 ex.; Bogatić: Belotić 20.5.1997, *Fraxinus* sp. 10 ex.; Mladenovac: Markovac 28.3.1994, *Fraxinus* sp. 12 ex.; Obrenovac: Zabran Forest 6.3.1998, *Fraxinus* sp. 11 ex.; Srem Forests 3.7.1992, *Fraxinus* sp. 9 ex.

H. toranio (Danthoine, 1788)

Aleksinac: Brđanka 26.8.1995, *Fraxinus* sp. 3 ex., 5.7.1996, *Fraxinus* sp. 14 ex., 14.8.1996, *F. ornus* L. 6 ex., Lipovac 14.3.1997, *F. ornus* 3 ex., Rujevica 17.8.1994, *Fraxinus* sp. 7 ex., Vakup – Paniče 6.7.1996, *Fraxinus* sp. 6 ex.; Mt. Avala 29.4.2005, *Fraxinus* sp. 27 ex., 6.7.2014, *Fraxinus* sp. 13 ex.; Belgrade: Ada Ciganlija 3.2.1996, *Fraxinus* sp. 7 ex., Banovo Brdo 30.8.1994, *Fraxinus* sp. 1 ex., 7.8.2001, *Syringa vulgaris* L. 1 ex., 3.4.2003, *F. pennsylvanica* 53 ex., Košutnjak 1.8.1994, *Fraxinus* sp. 13 ex., 22.8.1997, *F. lanceolata* Borkh. 16 ex., 3.4.2003, *Fraxinus* sp. 64 ex., 11.4.2003, *F. angustifolia* Vahl 9 ex., 30.4.2005, *Fraxinus* sp. 111 ex., Lipovica Forest 1993, *Fraxinus* sp. 52 ex., 19.3.1996, *Fraxinus* sp. 36 ex., 22.7.1996, *Fraxinus* sp. 2 ex., 22.7.1997, *Fraxinus* sp. 11 ex., Ralja – Trešnja 21.3.1993, *Fraxinus* sp. 4 ex., Ušće 14.9.1997, *F. lanceolata* 2 ex., Veliki Mokri Lug – Stepin Gaj 22.6.1996, *Fraxinus* sp. 7 ex., 11.11.1996, *Fraxinus* sp. 44 ex., 4.7.1997, *F. pennsylvanica* 37 ex., 4.7.1997, *Fraxinus* sp. 1 ex.; Obrenovac: Draževac 19.7.1995, Malaise trap 4 ex., Mala Moštanica 3.5.1997, *F. excelsior* L. 1 ex., Mala Moštanica – Žuto Brdo 14.4.2007, 1 ex. in flight; Mt. Rudnik: Cvijićev Vrh Peak 4.8.2012, 1 ex. in flight; Smederevska Palanka: Mikulja 25.10.1994, *Fraxinus* sp. 1,164 ex.; Soko Banja 8.10.1996, *Fraxinus* sp. 13 ex., Očno 8.10.1996, *Fraxinus* sp. 36 ex., Mt. Ozren 8.10.1996, *F. lanceolata* 5 ex.

Genus *Pteleobius* Bedel, 1888*P. vittatus* (Fabricius, 1787)

Belgrade: Veliki Mokri Lug – Stepin Gaj 4.7.1997, *Ulmus* sp. 221 ex., Veliko Selo 1.5.2010, 1 ex. in flight; Obrenovac: Zabran Forest 6.3.1998, *Ulmus* sp. 3 ex.

Tribe Scolytini Latreille, 1807

Genus *Scolytus* Geoffroy, 1762*S. carpini* (Ratzeburg, 1837)

Mt. Avala 4.8.1994, *Carpinus betulus* L. 2 ex., 29.4.2005, *C. betulus* 1 ex.; Belgrade: Košutnjak 30.8.1994, *C. betulus* 73 ex., 3.1995, *C. betulus* 64 ex., 15.5.1996, *C. betulus* 4 ex., 1996, *C. betulus* 5 ex., 20.4.2003, *C.*

betulus 6 ex., Lipovica Forest 2.8.1994, *C. betulus* 39 ex., Veliki Mokri Lug – Stepin Gaj 22.6.1996, *Corylus colurna* L. 7 ex.

S. ensifer Eichhoff, 1881

Belgrade: Progar – Bojčin Forest 10.4.1994, *Ulmus* sp. 6 ex.; Mt. Kosmaj 16.1.1996, *Ulmus* sp. 41 ex.; Obrenovac: Zabran Forest 7.3.1998, *Ulmus* sp. 16 ex.

S. intricatus (Ratzeburg, 1837)

Đerdap National Park: Zlatica – Kamenica 7.5.1993, *Quercus petraea* (Matt.) Liebl. 1 ex.; Belgrade: Veliki Mokri Lug – Stepin Gaj 21.7.2012, *Quercus* sp. 2 ex.

S. kirschii Skalitzky, 1876

Aleksinac: Donji Adrovac 13.8.1996, *Ulmus* sp. 11 ex., Vakup 14.8.1997, *Ulmus* sp. 1 ex.; Belgrade: Progar – Bojčin Forest 17.4.1994, *Ulmus* sp. 4 ex.

S. mali (Bechstein, 1805)

Belgrade: Banovo Brdo 15.8.1995, *Sorbus torminalis* (L.) Crantz 2 ex., Veliki Mokri Lug – Stepin Gaj 3.7.1993, *S. scandica*(L.) Fr. 4 ex.

S. multistriatus (Marsham, 1802)

Aleksinac: Vakup 30.4.1996, *Ulmus* sp. 7 ex.; Mt. Avala 3.6.2005, *Ulmus* sp. 6 ex.; Belgrade: Ada Ciganlija 3.2.1996, *Ulmus* sp. 6 ex., 19.4.1997, *Ulmus* sp. 6 ex., 18.2.2001, *Ulmus* sp. 584 ex., Banovo Brdo 24.3.2003, *Ulmus* sp. 15 ex., Čubura 10.3.1996, *Ulmus* sp. 5 ex., Košutnjak 21.2.1992, *Ulmus* sp. 45 ex., 18.2.1993, *Ulmus* sp. 1 ex., 19.2.1993, *Ulmus* sp. 10 ex., 10.3.1997, *Ulmus* sp. 16 ex., Progar – Bojčin Forest 27.7.1995, *Ulmus* sp. 5 ex., 14.2.1998, *Ulmus* sp. 1 ex.; Mt. Kosmaj 15.3.1995, *Ulmus* sp. 80 ex., 16.1.1996, *Ulmus* sp. 830 ex.; Niš: Kamenički Vis 18.8.2013, *U. minor* Mill. 1 ex.; Obrenovac: Draževac 11.6.1993, Malaise trap 3 ex., 16.6.1993, Malaise trap 1 ex., 20.7.1993, Malaise trap 1 ex.; Ražanj: Bukovik 10.8.2013, 1 ex.

S. pygmaeus (Fabricius, 1787)

Aleksinac: Rujevica 26.8.2010, *Ulmus* sp. 11 ex.; Belgrade: Ada Ciganlija 20.3.2003, *U. montana* With. 5 ex., Banovo Brdo 24.3.2003, *Ulmus* sp. 29 ex., Košutnjak 3.2.1996, *Ulmus* sp. 1 ex., Progar – Bojčin Forest 17.4.1994, *Ulmus* sp. 374 ex., 23.8.1997, *U. minor* 5 ex.; Mladenovac: Popović 8.8.1997, 1 ex. in flight; Niš: Kamenički Vis 18.8.2013, *U. minor* 4 ex.; Obrenovac: Zabran Forest 7.3.1998, *U. minor* 13 ex.

S. ratzeburgii Janson, 1856

Goč: Cvetne Livade 10.5.2002, *Betula pendula* Roth 5 ex.

S. rugulosus (Müller, 1818)

Aleksinac: Aleksinac mine 25.8.2001, *Prunus avium* L. 12 ex., Bobovište 20.5.1996, *P. domestica* L. 12 ex., Brđanka 26.9.1995, *P. domestica* 110 ex., Logorište *P. domestica* 25.9.1993, 6 ex., Mikro Naselje 19.9.1993, *P. domestica* 24 ex., Vakup 27.1.1994, *Pyrus communis* L. 19 ex., 28.6.1994, 7 ex.; Mt. Avala 1.11.1995, *P. avium* 24 ex.; Belgrade: Banovo Brdo 15.3.1994, *Prunus laurocerasus* L. 15 ex., 7.8.1995, 1 ex. in flight, Dedinje – Hajd Park 2.9.2001, *P. laurocerasus* 1 ex., 2.9.2001, *Malus* sp. 6 ex., Grocka – Begaljica 9.9.1997,

1 ex. in flight, 9.9.1997, *Persica vulgaris* Mill. 6 ex., Grocka – Dražanj 15.6.2002, 1 ex. in flight, Grocka – Vrčin 12.7.2003, 2 ex. in flight, Košutnjak 16.4.1994, *P. domestica* 64 ex., Lipovica Forest 19.3.1996, *S. torminalis* 7 ex., Progar – Bojčin Forest 10.4.1994, *Prunus* sp. 96 ex., Resnik 25.8.1996, *P. communis* 2 ex., Surčin 1997, 59 ex., Topčider Park 6.4.1993, *P. avium* 54 ex., 6.4.1993, *Prunus* sp. 8 ex., Veliki Mokri Lug – Stepin Gaj 7.3.1993, *Prunus* sp. 25 ex., 3.7.1993, *S. scandica* 58 ex., 22.6.1996, *Sorbus* sp. 7 ex., 30.4.2001, 1 ex. in flight, Vinča 25.7.1992, *Prunus cerasus* L. 4 ex., 25.7.1992, 4 ex.; Bor: Šarbanovac – Selište 23.6.1993, *P. domestica* 3 ex.; Mt. Fruška Gora 15.5.2001, *P. domestica* 9 ex.; Indija: Maradić – Krušedol 17.8.2013, 1 ex. in flight; Mt. Kosmaj 15.4.1994, *P. domestica* 87 ex., 16.1.1996, *P. domestica* 34 ex.; Kruševac: Naupare 9.10.1993, *Malus domestica* Borkh. 9 ex.; Mladenovac: Markovac 4.4.1994, *P. communis* 90 ex.; Obrenovac: Draževac 15.6.1991, Malaise trap 1 ex., 3.6.1993, Malaise trap 23 ex., 11.6.1993, Malaise trap 8 ex., 16.6.1993, Malaise trap 4 ex., 20.7.1993, Malaise trap 4 ex., 2.8.1993, Malaise trap 19 ex., 12.8.1993, Malaise trap 3 ex., 7.7.1994, Malaise trap 4 ex., 19.7.1995, Malaise trap 5 ex., 23.8.1995, Malaise trap 1 ex., 7.8.1997, Malaise trap 3 ex., Mala Moštanica 13.9.1997, 1 ex. in flight, 13.9.1997, *P. avium* 9 ex.; Smederevska Palanka: Mikulja 25.10.1994, *P. domestica* 84 ex.; Stara Pazova: Surduk 27.6.1998, 3 ex. in flight.

S. scolytus (Fabricius, 1775)

Belgrade: Ada Ciganlija 3.2.1996, *Ulmus* sp. 5 ex., 4.5.1996, *Ulmus* sp. 2 ex., 19.4.1997, *Ulmus* sp. 2 ex., 18.2.2001, *Ulmus* sp. 49 ex., Progar – Bojčin Forest 14.2.1998, *Ulmus* sp. 5 ex., Veliki Mokri Lug – Stepin Gaj 9.3.2014, *Ulmus* sp. 18 ex.; Niš: Kamenički Vis 18.8.2013, *U. minor* 1 ex.; Obrenovac: Zabran Forest 7.3.1998, *Ulmus* sp. 9 ex.

Tribe Taphrorychini Reitter, 1913

Genus *Taphrorychus* Eichhoff, 1878

T. bicolor (Herbst, 1793)

Mt. Avala 4.9.2005, *F. moesiaca* 52 ex., 8.12.2013, *F. moesiaca* 7 ex.; Belgrade: Košutnjak 19.3.1995, 3 ex. in flight, 12.5.1995, 1 ex. in flight, Progar – Bojčin Forest 22.4.1996, 1 ex. in flight; Debeli Lug 31.3.1994, *F. moesiaca* 129 ex.; Mt. Venčac 26.3.1994, *F. moesiaca* 7 ex.

T. villifrons (Dufour, 1843)

Aleksinac: Bovan Lake – Osoja 29.9.1992, *Quercus cerris* L. 7 ex., 19.7.1995, *Q. cerris* 123 ex., 2.5.1996, *Q. cerris* 5 ex., Dobrujevac 14.3.1997, *Q. cerris* 11 ex., Stanci 15.3.1997, *Q. cerris* 4 ex., Vakup 30.9.1996, *Q. frainetto* Ten. 2 ex.; Mt. Avala 4.8.1994, *Q. petraea* 4 ex., 25.7.1995, *Q. petraea* 2 ex., 28.7.1996, *Q. petraea* 1 ex.; Belgrade: Barajevo – lake vicinity 1.6.2002, 1 ex. in flight, Boljevci – Crni Lug 7.7.1998, 1 ex. in flight, Košutnjak 13.8.1992, *Q. virgiliana* (Ten.) Ten. 1 ex., 22.7.1993, *Q. cerris* 6 ex., 1.8.1994, *Q. cerris* 2 ex., 17.7.1995, *Q. cerris* 27 ex., Lipovica Forest 2.8.1994, *Q. cerris* 30 ex., 5.5.1995, *Q. cerris* 3 ex., 17.7.1995, *Q. cerris* 27 ex., 22.7.1995, *Q. cerris* 30 ex., Progar – Bojčin Forest 5.8.1994, *Q. cerris* 3 ex.; Mt. Fruška Gora 28.3.1998, *Q. cerris* 1 ex.; Jagodina: Lipar 17.5.1997, *Q. cerris* 1 ex.; Mt. Kosmaj 10.1.1993, *Q. cerris* 21 ex., 31.1.1993, *Q. cerris* 2 ex., 1.9.1993, *Q. cerris* 23 ex., 15.3.1994, *Q. cerris* 1 ex., 7.8.1994, *Q. cerris* 13 ex., 19.7.1995, *Q. cerris* 62 ex.; Lapovo: Rogot 17.5.1997, *Q. cerris* 1 ex.; Majdanpek: Debeli Lug 31.3.1994, *Q. petraea* 3 ex.; Mionica: Bogovađa 8.4.1994, *Q. cerris* 27 ex., 8.4.1994, *Q. frainetto* 2 ex.; Mladenovac: Markovac 4.4.1994, *Q. robur* L. 1 ex.; Obrenovac: Mala Moštanica 28.7.1996, *Q. cerris* 45 ex., 3.5.1997, 1 ex. in flight; Stepojevac: Borački Gaj 9.4.1993, *Q. cerris* 20 ex.; Topola: Donja Trnava 12.4.1997, *Q. cerris* 3

ex.; Valjevo: Carić 15.4.1993, *Q. frainetto* 15 ex., Pećina Park 15.4.1993, *Q. cerris* 2 ex.; Mt. Venčac 26.3.1994, *Q. frainetto* 1 ex.

Tribe Xyleborini LeConte, 1876

Genus *Xyleborinus* Reitter, 1913

X. saxeseni (Ratzeburg, 1837)

Belgrade: Košutnjak 9.3.1994, *C. betulus* 3 ex., 4.3.1995, *C. betulus* 3 ex., 6.3.1995, *C. betulus* 11 ex., 19.3.1995, *C. betulus* 1 ex., Progar – Bojčin Forest 22.4.1996, 1 ex. in flight, 23.8.1997, *Acer campestre* L. 1 ex., Surčin 23.8.1997, 2 ex.; Obrenovac: Mala Moštanica 3.8.1994, *Q. robur* 1 ex.

Genus *Xyleborus* Eichhoff, 1864

X. dispar (Fabricius, 1792)

Aleksinac: Bovan Lake – Osoja 7.7.1996, *Q. frainetto* 9 ex.; Belgrade: Lipovica Forest 22.7.1996, *Fraxinus* sp. 1 ex.; Užice: Gorjani 22.7.2001, *Acer* sp. 2 ex.; Obrenovac: Mala Moštanica 3.8.1994, *Q. robur* 5 ex.

X. dryographus (Ratzeburg, 1837)

Obrenovac: Draževac 2.8.1993, Malaise trap 1 ex.

Tribe Xyloterini Lindemann, 1876

Genus *Trypodendron* Stephens, 1830

T. signatum (Fabricius, 1787)

Đerdap National Park: Zlatica 27.3.1992, *F. moesiaca* 1 ex.

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ПРИЛОГ ПОЗНАВАЊУ ФАУНЕ СИПАЦА
(COLEOPTERA: CURCULIONIDAE: SCOLYTINAE)
ЛИШЋАРСКИХ ДРВЕНАСТИХ ВРСТА У СРБИЈИ

ЧЕДОМИР МАРКОВИЋ и АЛЕКСАНДАР СТОЈАНОВИЋ

Извод

Лишћарске дрвенасте врсте су за Србију јако важне пошто су у шумама, парковима и дрворедима пуно заступљене. Предпоставља се да се на њима код нас развија око 40 до 45 врста сипаца од којих је 35 врста већ пронађено. Нажалост, иако су те констатоване врсте већином у Србији још одавно познате још увек има јако мало публикованих података о локалитетима и домаћинима на којима су оне код нас утврђене. Због тога су у овом раду за 23 лишћарске врсте сипаца наведени локалитети и домаћини на којима су оне у Србији пронађене.

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