

CONTRIBUTION TO THE KNOWLEDGE OF THE SPIDER FAUNA (ARACHNIDA, ARANEAE) ON THE FRUŠKA GORA MT.

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Abstract

Based on the collected materials and literature findings, a total of 220 spider species are established in the territory of the Fruška Gora Mountain. In this paper 93 species represent new findings for the investigated area, while 17 of them such as *Eresus moravicus* Rezač, 2008, *Steatoda paykulliana* (Walckenaer, 1805), *Heterotheridion nigrovariegatum* Simon, 1873, *Donacochara speciosa* (Thorell 1875), *Neottiura suaveolens* (Simon, 1879), *Saloca diceros* (O.P.-Cambridge, 1871), *Minicia marginella* (Wider, 1834), *Tetragnatha striata* L. Koch 1862, *Larinioides suspicax* (O.P.-Cambridge 1876), *Dictyna civica* (Linnaeus, 1758), *Clubiona pseudoneglecta* Wunderlich, 1994, *Gnaphosa opaca* Herman 1879, *Philodromus marmoratus* Kulczynski 1891, *Ozyptila scabricula* (Westring 1851), *Leptorchestes berlinensis* (C.L. Koch, 1846), *Pseudeuophrys obsoleta* (Simon, 1868) and *Synageles hilarulus* (C.L. Koch, 1851) represent new records for the Serbian spiders fauna. In the manuscript, some new and previous interesting findings are discussed, and some revision of literature data is done.

KEY WORDS: spiders, new data, Fruška Gora, Serbia

Introduction

Fruška Gora is a south Pannonian Island Mountain with the modest dimensions of approximately 80 km long by 15 km wide. The highest peak is Crveni čot at 539 m. The northern and eastern boundaries of the mountain are marked by the Danube alluvial plain, while the south and west boundary is the Srem loess plateau. Geologists consider the Fruška Gora Mountain to be the final part of the eastern Alps, or Dinarides mountain chain. Despite a relatively small surface, only 815,6 km², Fruška Gora has a very rich hydrological underground and surface network. Some springs are even thermal and healing. However, all 15 lakes are artificial (MARKOVIĆ, 2007). With the desire to preserve remarkable geological, biological, cultural and

historical values, one part of Fruška Gora Mt. with a total surface of 225.18 km² was proclaimed a National Park in 1960 (JOSIĆ & MATIĆ, 2007).

Studies of the spider fauna on Fruška Gora began with CHYZER & KULCZYŃSKI in 1897, and the data about the collected species at the locality of Vrdnik and Ruma were incorporated into the Hungarian fauna (in DELTSHEV *et al.*, 2003). Many years later in 1944, Šilhavy during his research on the family Thomisidae found *Cozyptila blackwalli* (Simon, 1875) on this mountain, but didn't specify the exact location (in DELTSHEV *et al.*, 2003). SISOJEVIĆ & MILLER (1978) established 78 species from 16 families at the locality Iriški venac and that was the first significant result for this area. All available data were summarized in the Catalog of the Yugoslavian fauna (NIKOLIĆ & POLENEC, 1981), and for *Salticus mutabilis* Lucas 1846 it was noted that it was recorded on Fruška Gora, but without an exact locality. TOMIĆ & GRBIĆ (2008) offered the most recent published data for the Fruška Gora Mountain, with a total of 121 spider species from 28 families.

However, information about spiders on the Fruška Gora Mountain is still very poor. Therefore the aim of this paper is to establish a comprehensive list of species as a good basis for future faunistic and ecological studies, and for successful protection and conservation measures.

Material and Methods

The material presented here was collected at several localities from 2005 to 2009 (Fig. 1), with seasonal collection periods from April to November. The fieldwork was a part of day-to-day service control of the protected area of the National Park, and new and preliminary investigation of the territories that are not currently in the protection zone. The aim of the fieldwork was to gather more knowledge about the arachnofauna of the site.

Different standard collection methods were applied: sweeping, beating and pitfall traps. Traps were set at the localities of Komesarovac, Andrevlje, Iriški venac, Paragovo and Papratski do and emptied several times. Some material was collected by hand. Everything was fixed in 70 % ethanol and preserved in the author's private collection.

Habitats of the investigated localities can be divided into several categories:

1. moist habitats along the Danube, streams and artificial accumulations: loc. Medješ, Ledinci, Čerević-Dunav, Bruje lake, Vranješ lake, Beočin-Dunav; Dumbovački rit, Koruška;
2. meadow-steppes: loc. Komesarovac, Glavica, Čerević - ciglana, Koševac, Banstol
3. dry meadow with low vegetation: loc. Neradin, Krušedol
4. mesophilic meadow: Brankovac;
5. deciduous woodland and forest edges (beech forest and oak-hornbeam forest with large participation of lime, in the different stages of degradation): loc. Papratski do [*Tilio – Fagetum submontanum* (BUTORAC, 2007)], Iriški Venac, Letenka, Stražilovo, Vorovo, Popovica, Andrevlje, Paragovo, Testera, Vrdnik, Ravne, Čortanovci, Ležimir [*Rusco - Quercu – Carpinetum* (BUTORAC, 2007)];
6. anthropogenic habitats (settlements, quarries, areas beside roads): loc. Sremska Kamenica, Petrovaradin, Krčedin, Rakovac.

Nomenclature and data concerning general distribution follow PLATNICK (2010).

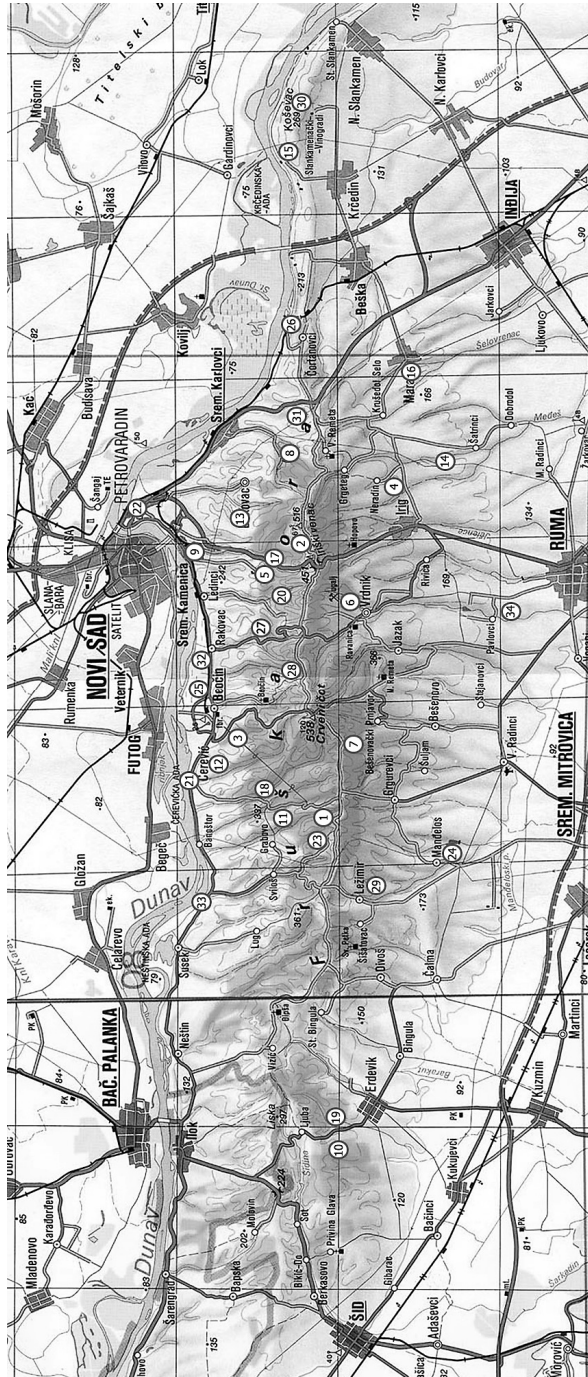


Figure 1. Map of Fruška Gora with investigated localities:

- 1 - Papratski Do, 2 - Irški venac, 3 - Komesarovac, 4 - Neradin, 5 - Popovica, 6 - Vrdnik, 7 - Letenka, 8 - Stražlovo, 9 - Sremska Kamenica, 10 - Vorovo, 11 - Andrevije, 12 - Čerević-cigjana, 13 - Glavica, 14 - Medješ, 15 - Krčedin, 16 - Medjedol, 17 - Paragovo, 18 - Testera, 19 - Bruje lake, 20 - Ledinci, 21 - Čerević-Dunav, 22 - Petrovaradin, 23 - Ravne, 24 - Vranješ lake, 25 - Beočin-Dunav, 26 - Čortanovci, 27 - Rakovac, 28 - Brankovac, 29 - Ležimir, 30 - Koševec, 31 - Banstol, 32 - Dumbovački rit, 33 - Koruska, 34 - Ruma.

Results and Discussion

Among the species recovered in this collecting campaign, 93 represent new findings for the territory of Fruška Gora Mt. These species are classified in 21 families: Dysderidae (3), Mimetidae (1), Eresidae (1), Uloboridae (1), Therididae (11), Linyphiidae (14), Tetragnathidae (4), Araneidae (4), Lycosidae (15), Pisauridae (1), Oxyopidae (1), Agelenidae (2), Hahniidae (1), Dictynidae (2), Amaurobiidae (2), Liocranidae (1), Clubionidae (1), Corinnidae (1), Gnaphosidae (6), Philodromidae (2), Thomisidae (7) and Salticidae (12) (see Tab. I).

17 species represent new records for Serbian fauna: *Eresus moravicus* Rezač, 2008, *Steatoda paykulliana* (Walckenaer, 1805), *Heterotheridion nigrovariegatum* Simon, 1873, *Donacochara speciosa* (Thorell 1875), *Neottiura suaveolens* (Simon, 1879), *Saloca diceros* (O. P. - Cambridge, 1871), *Minicia marginella* (Wider, 1834), *Tetragnatha striata* L. Koch 1862, *Larinioides suspicax* (O. P. - Cambridge 1876), *Dicyna civica* (Linnaeus, 1758), *Clubiona pseudoneglecta* Wunderlich, 1994, *Gnaphosa opaca* Herman 1879, *Philodromus marmoratus* Kulczynski 1891, *Ozyptila scabricula* (Westring 1851), *Leptorchestes berlinensis* (C.L. Koch, 1846), *Pseudeuophrys obsoleta* (Simon, 1868) and *Synageles hilarulus* (C.L. Koch, 1851).

Although the number of new findings seems large, the arachofauna of Serbia is poorly explored. All these species have already been recorded in surrounding countries (VAN HELSDINGEN, 2004), thus their presence in Serbia is not unexpected.

A specific situation with species *Eresus moravicus* should be noted. In the study of the European genus *Eresus*, (REZAČ *et al.*, 2008) three species were established: *E. kollari*, *E. moravicus* and *E. sandaliatus*. The older name *E. cinnaberinus* is considered a *nomen dubium*. According to data given by DELTSHEV *et al.* (2003) *E. cinnaberinus* s.l. was marked in Serbia in 1907, 1929 and 1936. But since the revision of the genus didn't include material from our country, nor do we have any comparative old original collections, it could be possible that the previous data also refers to *E. moravicus* or maybe *E. kollari*.

There is a similar situation in the case of *Larinioides suspicax* and *L. cornutus*. According to THALER (1974) *L. cornutus* is a somewhat northern species, while *L. suspicax* is rather a southern one. But the actual distribution of those two species is still not clear. The interpretation of some old records of *L. cornutus* in south Serbia collected in 1907, 1929 and 1936 (DELTSHEV *et al.*, 2003) is now different. Both *Larinioides* species could be present, but without any old original collection this cannot be determined.

The species *Cozyptila blackwalli* (Simon, 1875) was found on Iriški venac (1♂ Iriški venac 30.09.09.). This is the first confirmed record, since no precise locality was given by Šilhavy in 1944 (in DELTSHEV *et al.*, 2003).

Probably the most interesting records are *Tenuiphantes floriana* (van Helsdingen, 1977) and *Philodromus marmoratus* Kulczynski 1891. Both species are very rare. According to PLATNICK (2010) their global distribution includes only a few countries (Tab. II).

During the literature review we found that TOMIĆ & GRBIĆ (2008) overlooked 6 species found at some locality outside the protected zone. Those are *Incestophantes crucifer* (Menge, 1866), *Oedothorax agrestis* (Blackwall, 1853), *Phrurolithus festinus* (C.L. Koch, 1835), *Heriaeus hirtus* (Latreille, 1819), *Heliophanus flavipes* (Hahn, 1832) and *Phintella castriesiana* (Grube, 1861), all found by Chyzer and Kulczynski in 1897 at the locality of Ruma (in DELTSHEV *et al.*, 2003). This increases the total number of recorded species from Fruška Gora Mountain to 220. An updated list of all recorded species is presented in Tab. II.

Table I. List of new recorded spider species on the Fruška Gora Mountain.

| Families / Species | Localities |
|--|--|
| Dysderidae | |
| <i>Dasumia canestrini</i> (L. Koch, 1876) | Papratski do (3♀, 19.7.07; 1♂, 6.11.07; 1♂, 10.7.07) |
| <i>Dysdera ninnii</i> Canestrini, 1868 | Iriški venac (1♀, 20.09.08) |
| <i>Harpactea rubicunda</i> (C.L.Koch, 1838) | Komesarovac (1♂, 8.10.09) |
| Mimetidae | |
| <i>Ero tuberculata</i> (De Geer, 1778) | Neradin (1♂, 2.09.09) |
| Eresidae | |
| <i>Eresus moravicus</i> Rezač 2007 | Komesarovac (1♂, 7.05.08), Popovica (1♂, 12.05.08), Vrdnik (1♂, 1.06.07) |
| Uloboridae | |
| <i>Hyptiotes paradoxus</i> (C.L. Koch, 1834) | Letenka (1♀, 6.07.08) |
| Therididae | |
| <i>Asagena phalerata</i> (Panzer, 1801) | Medješ (1♀, 12.09.08), Komesarovac (1♂, 9.06.09) |
| <i>Heterotheridion nigrovariegatum</i> Simon, 1873 ** | Popovica (2♂, 25.6.05), Komesarovac (1♀, 20.07.07), Popovica (1♀, 11.06.09) |
| <i>Episinus truncatus</i> Latreille, 1809 | Sremska Kamenica (1♀, 14.07.08), Vorovo (1♂, 9.07.08) |
| <i>Enoplognatha latimana</i> Hippa & Oksala, 1982 | Komesarovac (1♀, 10.7.07; 1♂, 20.6.07) |
| <i>Neottiura suaveolens</i> (Simon, 1879) ** | Andrevlje (1♀, 7.07.09), Komesarovac (1♀, 9.06.09), Čerević (1♂, 3.07.09) |
| <i>Neottiura bimaculata</i> (Linnaeus, 1767) | Popovica (1♂, 21.05.05) |
| <i>Parasteatoda tepidariorum</i> (C. L. Koch, 1841) | Stražilovo (1♂, 3♀, 8.09.09) |
| <i>Philoneta impressa</i> L. Koch 1881 | Krušedol (2♂, 3♀, 12.06.09) |
| <i>Robertus lividus</i> (Blackwall, 1836) | Glavica (1♀, 21.12.08) |
| <i>Steatoda albomaculata</i> (De Geer, 1778) | Krčedin-kamenolom (2♀, 23.06.09) |
| <i>Steatoda paykulliana</i> (Walckenaer, 1805) ** | Komesarovac (1♂, 5.10.07; 2♂, 1♀, 6.11.07; 1♀, 18.07.09; 1♀, 29.07.09) |
| Linyphiidae | |
| <i>Diplostyla concolor</i> (Wider, 1834) | Popovica (1♀, 8.10.05), Papratski do (1♀, 1♂, 19.7.07), Andrevlje (2♀, 3♂, 17.8.08; 3♀, 3♂, 11.09.08), Paragovo (4♂, 7.08.08), Letenka (1♀, 6.07.08) |
| <i>Tenuiphantes floriana</i> (van Helsdingen, 1977) | Papratski do (1♀, 5.10.07), Popovica (1♂, 19.11.05; 1♀, 8.10.05; 4♂, 1♀, 23.11.07), Glavica (1♀, 10.11.05), Testera (1♀, 2.07.08) |
| <i>Microneta viaria</i> (Blackwall, 1841) | Popovica (2♂, 8.10.05), Popovica (1♂, 19.11.05), Andrevlje (1♀, 17.08.08) |
| <i>Bathyphantes gracilis</i> (Blackwall, 1841) | Popovica (1♂, 21.05.05) |
| <i>Centromerus sylvaticus</i> (Blackwall, 1841) | Andrevlje (1♀, 11.09.08) |
| <i>Dicymbium nigrum</i> (Blackwall, 1834) | Andrevlje (2♀, 11.09.08) |
| <i>Donacochara speciosa</i> (Thorell, 1875) ** | Bruje jezero (1♀, 18.7.09) |
| <i>Diplocephalus foraminifer</i> (O. P.-Cambridge, 1875) | Andrevlje (1♂, 17.08.08), Stražilovo (1♂, 18.03.09) |
| <i>Erigone dentipalpis</i> (Wider, 1834) | Andrevlje (1♂, 17.08.08) |
| <i>Neriene radiata</i> (Walckenaer, 1842) | Popovica (1♀, 26.6.05) |
| <i>Minicia marginella</i> (Wider, 1834) ** | Krčedin-kamenolom (7♂, 3♀, 12.05.09), Komesarovac (2♀, 2.05.09) |
| <i>Microlinyphia pusilla</i> (Sundevall 1830) | Čerević-ciglana (1♀, 3.07.09) |
| <i>Saloca dicerus</i> (O. P.-Cambridge, 1871) ** | Glavica (3♀, 1♂, 21.12.08) |
| <i>Walckenaeria simplex</i> Chyzer, 1894 | Popovica (1♀, 1♂, 8.10.05) |

| Families / Species | Localities |
|---|--|
| (Table I – continued) | |
| Tetragnathidae | |
| <i>Metellina merianae</i> (Scopoli 1763) | Petrovaradin (2♀, 15.10.08) |
| <i>Pachygnatha degeeri</i> Sundevall, 1830 | Čerević-Dunav (1♀, 3.07.09) |
| <i>Tetragnatha montana</i> Simon, 1874 | Ledinci (1♀, 20.7.07) |
| <i>Tetragnatha striata</i> L. Koch 1862 ** | Bruje lake (1♂, 18.07.09) |
| Araneidae | |
| <i>Agalenatea redii</i> (Scopoli, 1763) | Vrdnik (1♀, 24.10.05; 1♀, 25.05.07), Komesarovac (1♀, 18.05.09) |
| <i>Araneus quadratus</i> Clerck, 1757 | Komesarovac (1♀, 21.9.07), Papratski do (1♀, 7.10.06) |
| <i>Hypsosinga pygmaea</i> (Sundevall 1831) | Andrevlje (3♀, 7.07.09), Čerević (1♀, 1♂, 3.07.09) |
| <i>Larinioides suspicax</i> (O. P.-Cambridge 1876) ** | Medješ (2♀, 12.09.08) |
| Lycosidae | |
| <i>Alopecosa accentuata</i> (Latreille, 1817) | Popovica (1♀, 7.03.07) |
| <i>Alopecosa mariae</i> (Dahl, 1908) | Komesarovac (1♂, 6.11.07), Glavica (4♂, 26.10.05; 1♂, 10.11.05) |
| <i>Alopecosa trabalis</i> (Clerck 1757) | Komesarovac (2♂, 12.05.09) |
| <i>Arctosa maculata</i> (Hahn, 1822) | Andrevlje (2♂, 21.9.06; 1♀, 11.09.08; 1♀, 13.04.09) |
| <i>Aulonia albimana</i> (Walckenaer, 1805) | Krčedin-kamenolom (1♀, 23.06.09), Komesarovac (1♂, 18.07.09; 2♀, 17.10.09) |
| <i>Hogna radiata</i> (Latreille, 1817) | Ravne (2♀, 9.10.08), Komesarovac (2♀, 29.07.09) |
| <i>Pardosa agrestis</i> (Westring, 1861) | Čerević (2♂, 3.7.09) |
| <i>Pardosa amentata</i> (Clerck, 1757) | Vorovo (1♀, 29.07.08) |
| <i>Pardosa alacris</i> (C.L. Koch, 1833) | Vrdnik (9♂, 22.05.04) |
| <i>Pardosa hortensis</i> (Thorell, 1872) | Andrevlje (1♀, 31.07.08), Krčedin (1♀, 23.06.09), Vranješ lake (1♀, 27.08.09) |
| <i>Pardosa monticola</i> (Clerck, 1757) | Medješ (1♀, 12.09.08), Čerević (1♀, 3.07.09) |
| <i>Pardosa prativaga</i> L.Koch, 1870 | Beočin-Dunav (3♀, 24.06.09), Čerević-Dunav (2♀, 3.07.09) |
| <i>Pirata latitans</i> (Blackwall, 1841) | Ledinci (3♀, 20.7.07) |
| <i>Pirata knorri</i> (Scopoli, 1763) | Ledinci (1♀, 4.10.07), Andrevlje (1♀, 21.9.06; 1♀, 11.09.08), Paragovo (3♀, 1♂, 7.07.08; 1♀, 1.09.08; 2♀, 6.07.08) |
| <i>Xerolycosa miniata</i> (C.L. Koch, 1834) | Komesarovac (1♂, 18.07.09) |
| Pisauridae | |
| <i>Dolomedes fimbriatus</i> (Clerck, 1757) | Vorovo (1♀, 29.07.08) |
| Oxyopidae | |
| <i>Oxyopes lineatus</i> Letreille, 1806 | Krušedol (6♂, 3♀, 12.06.09), Neradin (1♂, 1♀, 12.06.09) |
| Agelenidae | |
| <i>Agelena labyrinthica</i> (Clerck, 1757) | Paragovo (1♀, 16.7.07) |
| <i>Malthonica silvestris</i> (L. Koch, 1872) | Andrevlje (1♂, 17.08.08; 3♀, 31.07.08) |
| Hahniidae | |
| <i>Hahnia pusilla</i> C.L. Koch, 1841 | Glavica (1♂, 1♀, 21.12.08) |
| Dictynidae | |
| <i>Cicurina cicur</i> (Fabricius, 1793) | Paragovo (1♀, 20.9.07), Čortanovci (1♀, 16.11.06), Popovica (3♂, 19.11.05) |
| <i>Dictyna civica</i> (Lucas, 1850) ** | Sremska Kamenica (1♀, 1♂, 2.06.09) |

| Families / Species | Localities |
|--|---|
| (Table I – continued) | |
| Amaurobiidae | |
| <i>Amaurobius ferox</i> (Walckenaer, 1830) | Rakovac (1♀, 13.10.08), Sremska Kamenica (1♂, 23.11.08) |
| <i>Eurocoelotes falciger</i> (Kulczynski, 1897) | Papratski do (2♂, 5.10.07) |
| Liocranidae | |
| <i>Agroeca cuprea</i> Menge, 1873 | Glavica (1♂, 26.10.08.) |
| Clubionidae | |
| <i>Clubiona pseudoneglecta</i> Wunderlich, 1994 ** | Popovica (4♀, 1♂, 25.06.05; 1♀, 23.07.05), Komesarovac (3♀, 20.06.07), Brankovac (1♀, 3.07.08), Ležimir (1♀, 30.06.06), Čerević (2♀, 3.07.09) |
| Corinnidae | |
| <i>Cetonana laticeps</i> (Canestrini, 1868) | Ležimir (1♀, 22.05.06) |
| Gnaphosidae | |
| <i>Drassyllus praeficus</i> (L. Koch, 1866) | Komesarovac (3♂, 9.06.09) |
| <i>Gnaphosa opaca</i> Herman, 1879 ** | Komesarovac (1♀, 12.05.09) |
| <i>Trachyzelotes pedestris</i> (C.L. Koch, 1837) | Komesarovac (1♂, 18.07.09) |
| <i>Zelotes gracilis</i> (Canestrini, 1868) | Komesarovac (2♀, 1♂, 27.06.09) |
| <i>Zelotes oblongus</i> (C.L. Koch 1833) | Beočin (1♀, 26.9.07) |
| <i>Zelotes erebeus</i> (Thorell, 1871) | Glavica (1♀, 26.10.05), Komesarovac (1♀, 24.09.09) |
| Philodromidae | |
| <i>Philodromus marmoratus</i> Kulczynski 1891 ** | Neradin (1♀, 12.06.08) |
| <i>Thanatus arenarius</i> L.Koch, 1872 | Koševac (1♀, 21.05.09) |
| Thomisidae | |
| <i>Ozyptila atomaria</i> (Panzer, 1801) | Glavica (1♀, 26.10.05), Komesarovac (2♀, 24.09.09) |
| <i>Ozyptila simplex</i> (O. P.-Cambridge, 1862) | Čerević (2♂, 3.07.09) |
| <i>Ozyptila scabricula</i> (Westring, 1851) ** | Komesarovac (1♀, 18.7.09) |
| <i>Xysticus kochi</i> Thorell, 1872 | Popovica (2♂, 9♀, 21.5.05; 1♀, 26.5.05; 4♀, 25.06.05) |
| <i>Xysticus acerbus</i> Thorell, 1872 | Popovica (1♀, 21.5.05) |
| <i>Xysticus kempeleni</i> Thorell, 1872 | Popovica (1♀, 21.5.05) |
| <i>Xysticus striatipes</i> L. Koch, 1870 | Banstol (4♂, 8.09.09), Neradin (1♂, 2.09.09) |
| Salticidae | |
| <i>Carrhotus xanthogramma</i> (Latreille, 1819) | Vrdnik (1♂, 25.05.07) |
| <i>Evarcha falcata</i> (Clerck, 1757) | Vorovo (1♂, 29.07.08), Ravne (1♂, 9.10.08), Popovica (1♂, 11.06.09), Kamenički park (1♀, 12.04.09) |
| <i>Leptorchestes berolinensis</i> (C.L. Koch, 1846) ** | Koruška (1♂, 15.7.07), Ležimir (1♀, 30.6.06), Bukovac (1♀, 12.06.08), Vorovo (1♀, 7.06.08) |
| <i>Marpissa radiata</i> (Grube, 1859) | Dumbovački rit (1♀, 17.04.08) |
| <i>Myrmarachne formicaria</i> (De Geer, 1778) | Popovica (1♀, 25.06.09) |
| <i>Neon reticulatus</i> (Blackwall, 1853) | Andrevlje (1♀, 7.07.09) |
| <i>Philaeus chrysops</i> Poda, 1761 | Komesarovac (1♀, 2.05.09), Krčedin-kamenolom (2♂, 12.05.09), Koševac (2♂, 21.05.09) |

| Families / Species | Localities |
|--|--|
| (Table I – continued) | |
| <i>Pseudonophrys obsoleta</i> (Simon, 1868) ** | Beočin (1♀, 3.07.08), Krčedin (1♀, 12.05.09) |
| <i>Pellenes nigrociliatus</i> (L.Koch, 1875) | Krčedin-kamenolom (1♀, 12.05.09) |
| <i>Sitticus floricola</i> (C.L. Koch, 1837) | Dumbovački rit (1♀, 27.05.08) |
| <i>Synageles hilarulus</i> (C.L.Koch, 1846) ** | Komesarovac (2♀, 9.06.09) |
| <i>Synageles venator</i> (Lucas, 1836) | Komesarovac (1♀, 20.6.07) |

** New data for Serbian fauna

Table II. An updated list of all 220 spider species found on the Fruška Gora Mountain.

| Families / species | Data source | | | | | Distribution |
|---|----------------------------------|---------------------------------|-------------------------------------|----------------------------|------------------|--|
| | CHYZER & KULCZYNSKI (1897) | SISOJEVIĆ & MILLER (1978) | DELTSHEV <i>et al.</i> (2003) | TOMIĆ & GRBIĆ (2008) | Present study | |
| Atypidae | | | | | | |
| <i>Atypus piceus</i> (Sulzer, 1776) | | | | x | | Europe to Moldavia, Iran |
| Nemesidae | | | | | | |
| <i>Nemesia pannonica</i> Herman, 1879 | | | | x | | Eastern Europe |
| Scytodidae | | | | | | |
| <i>Scytodes thoracica</i> (Latreille, 1802) | | | | x | | Holarctic, Pacific Is. |
| Segestriidae | | | | | | |
| <i>Segestria bavarica</i> C.L. Koch, 1843 | | x | x | x | | Europe to Azerbaijan |
| Dysderidae | | | | | | |
| <i>Dasumia canestrini</i> (L. Koch, 1876) | | | | | x | Southern Europe |
| <i>Dysdera ninnii</i> Canestrini, 1868 | | | | | x | Central, Southern Europe to Ukraine |
| <i>Dysdera longirostris</i> Doblaka, 1853 | x | x | x | x | | Eastern Europe to Ukraine |
| <i>Harpactea hombergi</i> (Scopoli, 1763) | | x | x | x | | Europe to Ukraine |
| <i>Harpactea saeva</i> (Herman, 1879) | | | | x | | Eastern Europe |
| <i>Harpactea rubicunda</i> (C.L.Koch, 1838) | | | | | x | Europe to Georgia |
| Mimetidae | | | | | | |
| <i>Ero aphana</i> (Walckenaer, 1802) | | | | x | | Palaearctic |
| <i>Ero tuberculata</i> (De Geer, 1778) | | | | | x | Palaearctic |

| Families / species | Data source | | | | | Distribution (Table II – continued) |
|---|----------------------------|---------------------------|-------------------------------|----------------------|---------------|--|
| | CHYZER & KULCZYNSKI (1897) | SISOJEVIĆ & MILLER (1978) | DELTSHEV <i>et al.</i> (2003) | TOMIĆ & GRBIĆ (2008) | Present study | |
| Eresidae | | | | | | |
| <i>Eresus moravicus</i> Rezač 2007 | | | | | x | Austria, Hungary, Czech Rep., Slovakia |
| Oecobiidae | | | | | | |
| <i>Oecobius maculatus</i> Simon, 1870 | | | | x | | Mediterranean to Azerbaijan |
| Uloboridae | | | | | | |
| <i>Uloborus walckenaerius</i> Latreille, 1806 | x | | x | x | | Palaearctic |
| <i>Hyptiotes paradoxus</i> (C.L. Koch, 1834) | | | | | x | Palaearctic |
| Theridiidae | | | | | | |
| <i>Achaearanea lunata</i> (Clerck, 1757) | | x | x | x | | Palaearctic |
| <i>Asagena phalerata</i> (Panzer, 1801) | | | | | x | Palaearctic |
| <i>Dipoena melanogaster</i> (C.L. Koch, 1837) | x | x | x | x | | Europe, North Africa to Azerbaijan |
| <i>Enoplognatha ovata</i> (Clerck, 1757) | | x | x | x | | Holarctic |
| <i>Enoplognatha latimana</i> Hippa & Oksala, 1982 | | | | | x | Holarctic |
| <i>Enoplognatha thoracica</i> (Hahn, 1833) | x | x | x | x | | Holarctic |
| <i>Episinus angulatus</i> (Blackwall, 1836) | | x | x | x | | Europe to Russia |
| <i>Episinus truncatus</i> Latreille, 1809 | | | | | x | Palaearctic |
| <i>Heterotheridion nigrovariegatum</i> Simon, 1873 | | | | | x | Palaearctic |
| <i>Neottiura suaveolens</i> (Simon, 1879) | | | | | x | Europe, Russia |
| <i>Neottiura bimaculata</i> (Linnaeus, 1767) | | | | | x | Holarctic |
| <i>Parasteatoda tepidariorum</i> (C. L. Koch, 1841) | | | | | x | Cosmopolitan |
| <i>Platnickina tincta</i> (Walckenaer, 1802) | x | | x | x | | Holarctic |
| <i>Philloneta impressa</i> L. Koch 1881 | | | | | x | Holarctic |
| <i>Theridion melanurum</i> Hahn, 1831 | | x | x | x | | Holarctic, Azores |
| <i>Theridion mystaceum</i> L. Koch, 1870 | | x | x | x | | Palaearctic |
| <i>Theridion pinastri</i> L. Koch, 1872 | | x | x | x | | Palaearctic |
| <i>Theridion varians</i> Hahn, 1833 | x | x | x | x | | Holarctic |
| <i>Robertus lividus</i> (Blackwall, 1836) | | | | | x | Holarctic |
| <i>Steatoda albomaculata</i> (De Geer, 1778) | | | | | x | Cosmopolitan |
| <i>Steatoda paykulliana</i> (Walckenaer, 1805) | | | | | x | Europe, Mediterranean to Central Asia |
| Linyphiidae | | | | | | |
| <i>Abacoproeces saltuum</i> (L. Koch, 1872) | | x | x | x | | Palaearctic |
| <i>Bathyphantes gracilis</i> (Blackwall, 1841) | | | | | x | Holarctic |
| <i>Centromerus sylvaticus</i> (Blackwall, 1841) | | | | | x | Holarctic |

| Families / species | Data source | | | | | Distribution (Table II – continued) |
|--|----------------------------|---------------------------|-------------------------------|----------------------|---------------|---|
| | CHYZER & KULCZYNSKI (1897) | SISOJEVIĆ & MILLER (1978) | DELTSHEV <i>et al.</i> (2003) | TOMIĆ & GRBIĆ (2008) | Present study | |
| Linyphiidae | | | | | | |
| <i>Donacochara speciosa</i> (Thorell, 1875) | | | | | x | Europe to Central Asia |
| <i>Dismodicus elevatus</i> (C.L. Koch, 1838) | x | | x | x | | Palearctic |
| <i>Dicymbium nigrum</i> (Blackwall, 1834) | | | | | x | Palearctic |
| <i>Diplostyla concolor</i> (Wider, 1834) | | | | | x | Holarctic |
| <i>Diplocephalus foraminifer</i> (O. P.-Cambridge, 1875) | | | | | x | Europe |
| <i>Drapetisca socialis</i> (Sundevall, 1833) | | x | x | x | | Palearctic |
| <i>Entelecara acuminata</i> (Wider, 1834) | | x | x | x | | Holarctic |
| <i>Erigone dentipalpis</i> (Wider, 1834) | | | | | x | Holarctic |
| <i>Frontinella frutetorum</i> (C.L. Koch, 1834) | | x | x | x | | Palearctic |
| <i>Incestophantes crucifer</i> (Menge, 1866) | x | | x | | x | Palearctic |
| <i>Linyphia hortensis</i> Sundevall, 1830 | | x | x | x | | Palearctic |
| <i>Linyphia triangularis</i> (Clerck, 1757) | | x | x | x | | Palearctic, USA (introduced) |
| <i>Meioneta fuscipalpa</i> (C.L. Koch, 1836) | | x | x | x | | Palearctic |
| <i>Microlinyphia pusilla</i> (Sundevall 1830) | | | | | x | Holarctic |
| <i>Microneta viaria</i> (Blackwall, 1841) | | | | | x | Holarctic |
| <i>Minicia marginella</i> (Wider, 1834) | | | | | x | Palearctic |
| <i>Neriere peltata</i> (Wider, 1834) | | x | x | x | | Greenland, Palearctic |
| <i>Neriere radiata</i> (Walckenaer, 1842) | | | | | x | Holarctic |
| <i>Oedothorax agrestis</i> (Blackwall, 1853), | x | | x | | x | Palearctic |
| <i>Pelecopsis elongata</i> (Wider, 1834) | | x | x | x | | Europe, Russia |
| <i>Porhomma microphthalmum</i> (O.P.-Cambridge, 1871) | | x | x | x | | Palearctic |
| <i>Saloca diceros</i> (O. P.-Cambridge, 1871) | | | | | x | Europe |
| <i>Tenuiphantes flavipes</i> (Blackwall, 1854) | x | | x | x | x | Palearctic |
| <i>Tenuiphantes floriana</i> (van Helsdingen, 1977) | | | | | x | Romania, Bulgaria, Serbia |
| <i>Tenuiphantes tenuis</i> (Blackwall, 1852) | x | x | x | x | | Europe, North Africa, Iran, Afghanistan |
| <i>Trichoncoides piscator</i> (Simon, 1884) | | x | x | x | | Palearctic |
| <i>Trichoncus affinis</i> Kulczyński, 1894 | x | | x | x | | Palearctic |
| <i>Walckenaeria simplex</i> Chyzer, 1894 | | | | | x | Central, Eastern Europe |
| Tetragnathidae | | | | | | |
| <i>Metellina merianae</i> (Scopoli 1763) | | | | | x | Europe to Georgia |
| <i>Metellina segmentata</i> (Clerck, 1757) | | x | x | x | | Palearctic, Canada (introduced) |
| <i>Pachygnatha degeeri</i> Sundevall, 1830 | | | | | x | Palearctic |
| <i>Tetragnatha montana</i> Simon, 1874 | | | | | x | Palearctic |

| Families / species | Data source | | | | | Distribution (Table II – continued) |
|--|----------------------------------|---------------------------------|-------------------------------------|----------------------------|------------------|--|
| | CHYZER & KULCZYNSKI (1897) | SISOJEVIĆ & MILLER (1978) | DELTSHEV <i>et al.</i> (2003) | TOMIĆ & GRBIĆ (2008) | Present study | |
| Tetragnathidae | | | | | | |
| <i>Tetragnatha nigrita</i> Lendl, 1886 | x | | x | x | | Paelearctic |
| <i>Tetragnatha striata</i> L. Koch 1862 | | | | | x | Europe to Kazakhstan |
| Araneidae | | | | | | |
| <i>Agalenatea redii</i> (Scopoli, 1763) | | | | | x | Paelearctic |
| <i>Araneus angulatus</i> Clerck, 1757 | | | | x | | Paelearctic |
| <i>Araneus diadematus</i> Clerck, 1757 | | x | x | x | | Holarctic |
| <i>Araneus quadratus</i> Clerck, 1757 | | | | | x | Paelearctic |
| <i>Araniella cucurbitina</i> (Clerck, 1757) | | x | x | x | | Paelearctic |
| <i>Araniella displicata</i> (Hentz, 1847) | | x | x | x | | Holarctic |
| <i>Araniella inconspicua</i> (Simon, 1874) | | x | x | x | | Paelearctic |
| <i>Argiope bruennichi</i> (Scopoli, 1772) | | | | x | | Paelearctic |
| <i>Argiope lobata</i> (Pallas, 1772) | x | | x | x | | Old World |
| <i>Cercidia prominens</i> (Westring, 1851) | | | | x | | Holarctic |
| <i>Cyclosa conica</i> (Pallas, 1772) | | x | x | x | | Holarctic |
| <i>Gibbaranea bituberculata</i> (Walckenaer, 1802) | | x | x | x | | Paelearctic |
| <i>Hypsosinga sanguinea</i> (L.C.Koch, 1844) | | | | x | | Paelearctic |
| <i>Hypsosinga pygmaea</i> (Sundevall 1831) | | | | | x | Holarctic |
| <i>Larinioides patagiatus</i> (Clerck, 1757) | | x | x | x | | Holarctic |
| <i>Larinioides suspicax</i> (O. P.-Cambridge 1876) | | | | | x | Europe to Central Asia |
| <i>Mangora acalypha</i> (Walckenaer, 1802) | | x | x | x | | Paelearctic |
| <i>Nuctenea umbratica</i> (Clerck, 1757) | | x | x | x | | Europe to Azerbaijan |
| <i>Stroemiellus stroemi</i> (Thorell, 1870) | x | | x | x | | Paelearctic |
| Lycosidae | | | | | | |
| <i>Alopecosa accentuata</i> (Latreille, 1817) | | | | | x | Paelearctic |
| <i>Alopecosa mariae</i> (Dahl, 1908) | | | | | x | Paelearctic |
| <i>Alopecosa trabalis</i> (Clerck 1757) | | | | | x | Europe to Central Asia |
| <i>Arctosa cinerea</i> (Fabricius, 1777) | | | | x | | Paelearctic, Congo |
| <i>Arctosa maculata</i> (Hahn, 1822) | | | | | x | Europe, Russia |
| <i>Aulonia albimana</i> (Walckenaer, 1805) | | | | | x | Paelearctic |
| <i>Hogna radiata</i> (Latreille, 1817) | | | | | x | Central Europe to Central Asia, Central Africa |
| <i>Pardosa agrestis</i> (Westring, 1861) | | | | | x | Paelearctic |
| <i>Pardosa amentata</i> (Clerck, 1757) | | | | | x | Europe, Russia |
| <i>Pardosa alacris</i> (C.L. Koch, 1833) | | | | | x | Europe, Russia |
| <i>Pardosa hortensis</i> (Thorell, 1872) | | | | | x | Holarctic |

| Families / species | Data source | | | | | Distribution (Table II – continued) |
|--|----------------------------|---------------------------|-------------------------------|----------------------|---------------|---|
| | CHYZER & KULCZYNSKI (1897) | SISOJEVIĆ & MILLER (1978) | DELTSHEV <i>et al.</i> (2003) | TOMIĆ & GRBIĆ (2008) | Present study | |
| Lycosidae | | | | | | |
| <i>Pardosa lugubris</i> (Walckenaer, 1802) | | x | x | x | | Palaearctic |
| <i>Pardosa monticola</i> (Clerck, 1757) | | | | | x | Palaearctic |
| <i>Pardosa prativaga</i> L.Koch, 1870 | | | | | x | Europe, Russia |
| <i>Pirata latitans</i> (Blackwall, 1841) | | | | | x | Europe to Azerbaijan |
| <i>Pirata knorri</i> (Scopoli, 1763) | | | | | x | Palaearctic |
| <i>Pirata piraticus</i> (Clerck, 1757) | | | | x | | Holarctic |
| <i>Trochosa terricola</i> Thorell, 1856 | | | | x | | Holarctic |
| <i>Xerolycosa miniata</i> (C.L. Koch, 1834) | | | | | x | Palaearctic |
| Pisauridae | | | | | | |
| <i>Dolomedes fimbriatus</i> (Clerck, 1757) | | | | | x | Palaearctic |
| <i>Pisaura mirabilis</i> (Clerck, 1757) | | | | x | | Palaearctic |
| Oxyopidae | | | | | | |
| <i>Oxyopes lineatus</i> Letreile, 1806 | | | | | x | Palaearctic |
| Zoridae | | | | | | |
| <i>Zora nemoralis</i> (Blackwall, 1861) | | x | x | x | | Palaearctic |
| Agelenidae | | | | | | |
| <i>Allagelena gracilens</i> C.L. Koch, 1841 | | x | x | x | | Central Europe, Mediterranean to Central Asia |
| <i>Agelena labyrinthica</i> (Clerck, 1757) | | | | | x | Palaearctic |
| <i>Histoipona torpida</i> (C.L. Koch, 1837) | x | | x | x | | Europe, Russia |
| <i>Malthonica campestris</i> C.L. Koch, 1834 | | x | x | x | | Europe to Azerbaijan |
| <i>Malthonica silvestris</i> (L. Koch, 1872) | | | | | x | Europe, Russia |
| Hahniidae | | | | | | |
| <i>Hahnia pusilla</i> C.L. Koch, 1841 | | | | | x | Europe, Russia |
| Dictynidae | | | | | | |
| <i>Dictyna civica</i> (Lucas, 1850) | | | | | x | Europe to Central Asia |
| <i>Dictyna latens</i> (Fabricius, 1775) | x | | x | x | | Europe to Central Asia |
| <i>Cicurina cicur</i> (Fabricius, 1793) | | | | | x | Europe to Central Asia |
| <i>Lathys humilis</i> (Blackwall, 1855) | | x | x | x | | Palaearctic |
| <i>Nigma flavescens</i> (Walckenaer, 1830) | | x | x | x | | Palaearctic |

| Families / species | Data source | | | | | Distribution (Table II – continued) |
|--|----------------------------|---------------------------|-------------------------------|----------------------|---------------|--|
| | CHYZER & KULCZYNSKI (1897) | SISOJEVIĆ & MILLER (1978) | DELTSHEV <i>et al.</i> (2003) | TOMIĆ & GRBIĆ (2008) | Present study | |
| Amaurobiidae | | | | | | |
| <i>Amaurobius ferox</i> (Walckenaer, 1830) | | | | | x | Holarctic |
| <i>Eurocoelotes falciger</i> (Kulczynski, 1897) | | | | | x | Eastern Europe |
| <i>Eurocoelotes inermis</i> (L.Koch, 1855) | | | | x | | Europe |
| <i>Urocoras longispinus</i> (Kulczynski, 1897) | | | | x | | Central, Eastern Europe |
| Miturgidae | | | | | | |
| <i>Cheiracanthium elegans</i> Thorell, 1875 | | x | x | x | | Europe to Central Asia |
| <i>Cheiracanthium punctorium</i> (Villers, 1789) | | | | x | | Europe to Central Asia |
| Anyphaenidae | | | | | | |
| <i>Anyphaena accentuata</i> (Walckenaer, 1802) | | x | x | x | | Europe to Central Asia |
| Liocranidae | | | | | | |
| <i>Agroeca cuprea</i> Menge, 1873 | | | | | x | Europe to Central Asia |
| <i>Agroeca brunnea</i> (Blackwall, 1833) | | x | x | x | | Paleartic |
| <i>Liocranum rupicola</i> (Walckenaer, 1830) | | x | x | x | | Europe, Russia |
| <i>Sagana rutilans</i> (Thorell, 1875) | | x | x | x | | Europe to Georgia |
| Clubionidae | | | | | | |
| <i>Clubiona caerulescens</i> L. Koch, 1867 | | x | x | x | | Paleartic |
| <i>Clubiona comta</i> C.L. Koch, 1839 | | x | x | x | | Europe, Russia, North Africa |
| <i>Clubiona lutescens</i> Westring, 1851 | | x | x | x | | Holarctic |
| <i>Clubiona marmorata</i> L. Koch, 1866 | | x | x | x | | Europe |
| <i>Clubiona pseudoneglecta</i> Wunderlich, 1994 | | | | | x | Europe to Central Asia |
| <i>Clubiona terrestris</i> Westring, 1851 | | x | x | x | | Europe |
| Corinnidae | | | | | | |
| <i>Cetonana laticeps</i> (Canestrini, 1868) | | | | | x | Europe, Russia |
| <i>Phrurolithus festivus</i> (C.L. Koch, 1835), | x | | x | | x | Paleartic |
| Zodariidae | | | | | | |
| <i>Zodarion germanicum</i> (C.L. Koch, 1837) | x | x | x | x | | Europe |
| Gnaphosidae | | | | | | |
| <i>Aphantaux cincta</i> (L. Koch, 1866) | x | | x | x | | Europe, North Africa, Israel |
| <i>Aphantaux trifasciata</i> Simon, 1878 | x | | x | x | | Paleartic |

| Families / species | Data source | | | | | Distribution (Table II – continued) |
|--|----------------------------|---------------------------|-------------------------------|----------------------|---------------|--|
| | CHYZER & KULCZYNSKI (1897) | SISOJEVIĆ & MILLER (1978) | DELTSHEV <i>et al.</i> (2003) | TOMIĆ & GRBIĆ (2008) | Present study | |
| Gnaphosidae | | | | | | |
| <i>Drassodes lapidosus</i> (Walckenaer, 1802) | | x | x | x | | Palaearctic |
| <i>Drassyllus praeficus</i> (L. Koch, 1866) | | | | | x | Europe to Central Asia |
| <i>Echemus angustifrons</i> (Westring, 1861) | | x | x | x | | Europe to Central Asia |
| <i>Gnaphosa opaca</i> Herman, 1879 | | | | | x | Europe to Central Asia |
| <i>Haplodrassus silvestris</i> (Blackwall, 1833) | | x | x | x | | Palaearctic |
| <i>Micaria formicaria</i> (Sundevall, 1831) | x | | x | x | | Palaearctic |
| <i>Nomisia exornata</i> (C.L. Koch, 1839) | x | | x | x | | Europe to Central Asia |
| <i>Phaeoedus braccatus</i> (L. Koch, 1866) | | x | x | x | | Palaearctic |
| <i>Scotophaeus blackwalli</i> (Thorell, 1871) | | x | x | x | | Cosmopolitan |
| <i>Scotophaeus scutulatus</i> (L. Koch, 1866) | | x | x | x | | Europe to Central Asia, Algeria |
| <i>Trachyzelotes pedestris</i> (C.L. Koch, 1837) | | | | | x | Europe to Azerbaijan |
| <i>Zelotes erebeus</i> (Thorell, 1871) | | | | | x | Europe to Georgia |
| <i>Zelotes gracilis</i> (Canestrini, 1868) | | | | | x | Europe, Russia |
| <i>Zelotes oblongus</i> (C.L. Koch 1833) | | | | | x | Europe |
| <i>Zelotes subterraneus</i> (C.L. Koch, 1833) | | x | x | x | | Palaearctic |
| Sparassidae | | | | | | |
| <i>Micrommata virescens</i> (Clerck, 1757) | | x | x | x | | Palaearctic |
| Philodromidae | | | | | | |
| <i>Philodromus aureolus</i> (Clerck, 1757) | | x | x | x | | Palaearctic |
| <i>Philodromus dispar</i> Walckenaer, 1826 | | x | x | x | | Europe to Central Asia |
| <i>Philodromus emarginatus</i> (Schrank, 1803) | | x | x | x | | Palaearctic |
| <i>Philodromus marmoratus</i> Kulczynski 1891 | | | | | x | Austria, Rep. Czech, Bulgaria, Ukraine |
| <i>Philodromus rufus</i> Walckenaer, 1826 | | x | x | x | | Holarctic |
| <i>Thanatus arenarius</i> L.Koch, 1872 | | | | | x | Europe to Iran |
| <i>Thanatus sabulosus</i> (Menge, 1875) | x | | x | x | | Palaearctic |
| <i>Tibellus oblongus</i> (Walckenaer, 1802) | | | | x | | Holarctic |
| Thomisidae | | | | | | |
| <i>Cozyptila blackwalli</i> Simon, 1875 | | | x | x | x | Palaearctic |
| <i>Diaea dorsata</i> (Fabricius, 1777) | | x | x | x | | Palaearctic |
| <i>Diaea livens</i> Simon 1876 | | | | x | | USA, Central Europe to Azerbaijan |

| Families / species | Data source | | | | | Distribution (Table II – continued) |
|--|----------------------------|---------------------------|-------------------------------|----------------------|---------------|--|
| | CHYZER & KULCZYNSKI (1897) | SISOJEVIĆ & MILLER (1978) | DELTSHEV <i>et al.</i> (2003) | TOMIĆ & GRBIĆ (2008) | Present study | |
| Thomisidae | | | | | | |
| <i>Ebrechtella tricuspidata</i> (Fabricius, 1775) | | | | x | | Palearctic |
| <i>Heriæus hirtus</i> (Latreille, 1819), | x | | x | | x | Europe to Georgia |
| <i>Misumena vatia</i> (Clerck, 1757) | | x | x | x | | Holarctic |
| <i>Ozyptila atomaria</i> (Panzer, 1801) | | | | | x | Palearctic |
| <i>Ozyptila simplex</i> (O. P.-Cambridge, 1862) | | | | | x | Palearctic |
| <i>Ozyptila scabricula</i> (Westring, 1851) | | | | | x | Palearctic |
| <i>Pistius truncatus</i> (Pallas, 1772) | | x | x | x | | Palearctic |
| <i>Runcinia grammica</i> (C.L. Koch, 1837) | x | | x | x | | Palearctic, St. Helena, South Africa |
| <i>Synaema globosum</i> (Fabricius, 1775) | | | | x | | Palearctic |
| <i>Thomisus onustus</i> Walckenaer, 1805 | | | | x | | Palearctic |
| <i>Tmarus piger</i> (Walckenaer, 1802) | | x | x | x | | Palearctic |
| <i>Tmarus stellio</i> Simon, 1875 | | x | x | x | | Palearctic |
| <i>Xysticus acerbus</i> Thorell, 1872 | | | | | x | Europe to Central Asia |
| <i>Xysticus bifasciatus</i> C.L. Koch, 1837 | x | | x | x | | Palearctic |
| <i>Xysticus lanio</i> C.L. Koch, 1835 | | x | x | x | | Palearctic |
| <i>Xysticus embriki</i> Kolosváry, 1935 | | x | x | x | | Austria, Greece to Kazakhstan |
| <i>Xysticus luctator</i> L. Koch, 1870 | | x | x | x | | Palearctic |
| <i>Xysticus kochi</i> Thorell, 1872 | | | | | x | Europe, Mediterranean to central Asia |
| <i>Xysticus kempeleni</i> Thorell, 1872 | | | | | x | Europe to Central Asia |
| <i>Xysticus ninnii</i> Thorell, 1872 | x | | x | x | | Palearctic |
| <i>Xysticus striatipes</i> L. Koch, 1870 | | | | | x | Palearctic |
| Salticidae | | | | | | |
| <i>Ballus chalybeius</i> (Walckenaer, 1802) | | x | x | x | | Europe, North Africa to Central Asia |
| <i>Carrhotus xanthogramma</i> (Latreille, 1819) | | | | | x | Palearctic |
| <i>Evarcha arcuata</i> (Clerck, 1757) | | | | x | | Palearctic |
| <i>Evarcha falcata</i> (Clerck, 1757) | | | | | x | Palearctic |
| <i>Heliophanus cupreus</i> (Walckenaer, 1802) | | x | x | x | | Palearctic |
| <i>Heliophanus flavipes</i> (Hahn, 1832) | x | | x | | x | Palearctic |
| <i>Leptorchestes berlinensis</i> (C.L. Koch, 1846) | | | | | x | Europe to Turkmenistan |
| <i>Macaroeris nidicolens</i> (Walckenaer, 1802) | | x | x | x | | Europe to Central Asia |
| <i>Marpissa muscosa</i> (Clerck, 1757) | | x | x | x | | Palearctic |
| <i>Marpissa radiata</i> (Grube, 1859) | | | | | x | Palearctic |

| Families / species | Data source | | | | | Distribution (Table II – continued) |
|--|----------------------------|---------------------------|-------------------------------|----------------------|---------------|--|
| | CHYZER & KULCZYNSKI (1897) | SISOJEVIĆ & MILLER (1978) | DELTSHEV <i>et al.</i> (2003) | TOMIĆ & GRBIĆ (2008) | Present study | |
| <i>Salticidae</i> | | | | | | |
| <i>Myrmarachne formicaria</i> (De Geer, 1778) | | | | | x | Palaearctic, USA (introduced) |
| <i>Neon reticulatus</i> (Blackwall, 1853) | | | | | x | Holarctic |
| <i>Pellenes nigrociliatus</i> (L.Koch, 1875) | | | | | x | Palaearctic |
| <i>Philaeus chrysops</i> Poda, 1761 | | | | | x | Palaearctic |
| <i>Phintella castriesiana</i> (Grube, 1861) | x | | x | | x | Palaearctic |
| <i>Pseudeuophrys erratica</i> (Walckenaer, 1826) | | x | x | x | | Palaearctic, USA (introduced) |
| <i>Pseudenophrys obsoleta</i> (Simon, 1868) | | | | | x | Palaearctic |
| <i>Pseudicius encarpatus</i> (Walckenaer, 1802) | | x | x | x | | Europe to Central Asia |
| <i>Salticus mutabilis</i> Lucas, 1846 | | | x | x | | Europe, Azores, Georgia, Argentina |
| <i>Salticus zebraneus</i> (C.L. Koch, 1837) | | x | x | x | | Palaearctic |
| <i>Sitticus floricola</i> (C.L. Koch, 1837) | | | | | x | Palaearctic |
| <i>Synageles hilarulus</i> (C.L.Koch, 1846) | | | | | x | Palaearctic |
| <i>Synageles venator</i> (Lucas, 1836) | | | | | x | Palaearctic |
| Total number of recorded spider species per publication | 30 | 78 | 104 | 121 | 100 | |
| | 1897 | 1978 | 2003 | 2008 | 2010 | |
| Cumulative numbers of recorded spider species over years | 30 | 72 | 98 | 121 | 220 | |

Conclusion

The arachnological investigation of the Fruška Gora Mt. is still far from complete. A total of 220 species of spiders have been recorded (Tab. II). This work reveals high species richness although numerous habitats have still not been explored, and most of the captures are not based on an extensive scientific inventory. Some localities and species should probably be subject to protection and conservation measures. This will be a focus of our further investigations.

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ДОПРИНОС ПОЗНАВАЊУ ФАУНЕ ПАУКОВА (ARACHNIDA, ARANEAE) ПЛАНИНЕ ФРУШКЕ ГОРЕ

ГОРДАНА ГРБИЋ и ДРАГИША САВИЋ

Извод

На основу сакупљеног материјала и литературних података на територији Фрушке горе установљено је 220 врста паукова. У овом раду 93 врсте представљају нове налазе за истраживано подручје, док 17 врста као што су *Eresus moravicus* Rezač, 2008, *Steatoda paykulliana* (Walckenaer, 1805), *Heterotheridion nigrovariegatum* Simon, 1873, *Donacochara speciosa* (Thorell 1875), *Neottura suaveolens* (Simon, 1879), *Saloca diceros* (O.P. - Cambridge, 1871), *Minicia marginella* (Wider, 1834), *Tetragnatha striata* L. Koch 1862, *Larinioides suspicax* (O.P. - Cambridge 1876), *Dyctina civica* (Linnaeus, 1758), *Clubiona pseudoneglecta* Wunderlich, 1994, *Gnaphosa opaca* Herman 1879, *Philodromus marmoratus* Kulczynski 1891, *Ozyptila scabricula* (Westring 1851), *Leptorchestes berlinensis* (C.L. Koch, 1846), *Pseudeuophrys obsoleta* (Simon, 1868) и *Synageles hilarulus* (C.L. Koch, 1851) представљају нове налазе за фауну Србије.

У раду су дискутовани неки стари и нови интересантни налази, и урађена је ревизија старих литературних података.

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