

DISTRIBUTION OF SPECIES OF TRIBE AGATHIDIINI FROM THE TERRITORY OF FORMER YUGOSLAVIA (COLEOPTERA, LEIODIDAE: LEIODINAE)

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This paper presents data for all the species of tribe Agathidiini known from the territory of former Yugoslavia. The studied material was collected by the authors or loaned from colleagues from Zemun, Belgrade, Kragujevac and Novi Sad, and the material from the collection of Mr. Jon Cooter (England) and National Museum of Natural History (Budapest). Data from literature is also used. 32 species from four genera are recognised. The catalogue of all these species and maps of their distribution on the territory of former Yugoslavia is shown.

KEY WORDS: Coleoptera, Agathidiini, distribution, former Yugoslavia.

INTRODUCTION

The tribe Agathidini Westwood, 1838 (Leiodidae: Leiodinae) contains nine genera, four of which *Anisotoma* Panzer, 1797, *Amphicyllis* Erichson, 1845, *Liodopria* Reitter, 1909, and *Agathidium* Panzer, 1797, (which numerically has the most species (ANGELINI, 1995)) occur in the former territory of Yugoslavia.

The studied area was very interesting for entomologists in the past, and few species new to science were described from Croatia (*Agathidium nudum* Hampe, 1870; *A. aglyptoides* Reitter, 1884; *A. pseudopallidum* Hlisnikovski, 1964), Bosnia and Slovenia (*A. montemurroi* Angelini & De Marzo, 1985) and Serbia (*A. rambouseki* Hlisnikovski, 1964).

All species mentioned most likely have a primary association (*Agathidium*)

or obligate association (*Anisotoma*) with myxomycetes (LAWRENCE & NEWTON, 1980). Our knowledge of the habits and biology of the Leiodinae has been summarized by NEWTON (1984).

32 species from the tribe Agathidini from former Yugoslavia are recognized, based on the data from literature, the material from private and museum collections and material collected as part of this study. For comparison, PEEZ (1971) records 29 species from central Europe, and Cooter (1996) 17 species from Great Britain.

MATERIAL AND METHODS

The studied material was collected by barber-traps, with 9 % alcohol vinegar as an attractant, which was checked every 2 to 3 weeks.

A small number of species were collected by inspecting potential substrate (logs, stumps, fungoid bark, piles of leaves, roots of ferns and decaying vegetable material), by sifting and putting in extractors or Tullgren funnels. Sweeping also produced a number of species and other were found under rocks.

Significant data for this paper were obtained by examining the collection of the National Museum of Natural History of Budapest (TMB). Material being loaned by Dr. Otto MERKL. Mr. J. COOTER (England), late Prof. Dr. Guido NONVEILLER (Serbia), sent us data from their private collections, as did many other colleagues.

Included in this paper are records previously published in entomological literature.

RESULTS AND DISCUSSION

1. Genus *Anisotoma* Panzer, 1797

1. *Anisotoma orbicularis* (Herbst, 1792)

General distribution.- Palaearctic (WHEELER, 1979: 275). Europe, Caucasus, Turkey and Iran (ANGELINI, 1989: 584).

Data from literature.- REITTER (1885: 203): Bosnia.

Examined material.- Bosnia: Mts. Majeвица, 1 ♀ (*Zoufal*), TMB. - Stambulčić, 2 ♀ (*Zoufal*), TMB. - Zavidovići, 04.04.1914, 1 ♀ (*Kendi*); 17.05.1914, 1 ♀ (*Kendi*), TMB. - Mts. Ivan, 8 ♀ (*Apfelbeck*), TMB. - Mts. Igman, 1 ♂, 2 ♀ (*Apfelbeck*), TMB. - Mts. Zvijezda, 14-18.07.1930, 1 ex (*Fodor*), TMB. - Pazarić, 16.10.1929, 1 ex (*Fodor*), TMB. - Pazarić, village Krupa, 07.11.1933, 1 ex (*Fodor*); 28.11.1934, 1 ex (*Fodor*), TMB. - Pazarić, Zovik, 21.07.1937, 4 ex (*Fodor*), TMB.

- Sarajevo, Lukavac, 18.03.1930, 1 ex (*Fodor*), TMB. - Mts. Trebević, 1 ♀ (*Apfelbeck*); 08.1929, 1 ♀ (*Fodor*), TMB. - Jajce, 05.11.1934, 1 ex (*Fodor*), TMB. - Mts. Čemernica, 1 ex (*Grabowski*), TMB. **Vojvodina:** Banat, Vršac, Vršacki breg, 01.03.1989, 1 ♂ (*Ilić*). - Jurići, 09.-20.06.1915, 1 ex (*Fodor*), TMB. **Serbia:** Mts. Radan, Sokolovica-Bačije, 1100 m, 17.05-17.06.1989, 1 ♂, 1 ♀ (*Pavičević & Popović*). - Mts. Murtenica, 1200 m, 07-30.06.1996, 2 ♀ (*Pavičević & Popović*). - Valley of Resava river, Suvaja crag, 24.07.1997, 1 ♀ (*Pavičević & Karaman*). - Mts. Homoljske, Ceremošnja, 600 m, 06.06-15.07.1998, 1 ♂ (*Ilić*). - Mts. Svrljiške, Ribarska korita, 850 m, 08.06-11.07.1998, 2 ♂, 2 ♀ (*Stevanović & Popović*). - Mts. Stara, Jablanica, 770 m, 29.04.2002, 1 ♀ (*Hlavač*). **Montenegro:** Mts. Bjela Gora, Grahovo, 1300 m, 1929, 1 ex (*Fodor*), TMB. - Mts. Durmitor, Crno jezero, 1400 m, 26.06.1958, 2 ♂ (*Kaszab & Szekessy*), TMB. - Krivošije, 1 ♂, 4 ♀ (*Paganetti*), TMB. **Macedonia:** Mts. Šara, 07.07.1935, 6 ex (*Fodor*), TMB. - Mts. Šara, Ljuboten, 04.-18.07.1935, 12 ex (*Fodor*), TMB.

2. *Anisotoma castanea* (Herbst, 1792)

General distribution.- Europe (PEEZ, 1971: 260; WHEELER, 1979: 272), while ANGELINI *et al.* (1993: 95) add Siberia and Japan.

Data from literature.- REITTER (1885: 203): Bosnia.

Examined material.- **Bosnia:** Zavidovići, 07.06.1904, 1 ♂ (*Kendi*); 20.06.1909, 1 ♀ (*Kendi*); 10.1912, 1 ♀ (*Kendi*), TMB. - Mts. Majevica, 2 ♀ (*Zoufal*), TMB. **Montenegro:** Mts. Bjela Gora, Grahovo, 1300 m, 1929, 1 ♀ (*Fodor*), TMB. - Krivošije, 2 ♀ (*Paganetti*), TMB. - Herceg Novi, 1 ♂ (*Apfelbeck*), TMB. - Mts. Durmitor, Crno jezero, 1400 m, 26.07.1958, 1 ♀ (*Kaszab & Szekessy*), TMB.

3. *Anisotoma humeralis* (Fabricius, 1792)

General distribution.- North America and Europe (WHEELER, 1979: 292). Europe, central Asia (PEEZ, 1971: 260) and Caucasus (ANGELINI, *et al.*, 1993: 95)

Data from literature.- REITTER (1885: 203): Bosnia. ANGELINI (1988b: 307): Istra (*Springer*).

Examined material.- **Bosnia:** Pazarić, 15.10.1929, 1 ♂ (*Fodor*); 1 ♂ (*Apfelbeck*), TMB. - Pazarić, Zovik, 21.05.1937, 5 ♂, 4 ♀ (*Fodor*), TMB. - Mts. Igman, 08.08.1933, 1 ♂ (*Fodor*), TMB. - Sarajevo, 2 ♂, 1 ♀ (*Apfelbeck*), TMB. - Mts. Ivan, 1 ♂, 4 ♀ (*Apfelbeck*), TMB. **Vojvodina:** Srem, Morović, Jamena, 14-28.05.1997, 1 ♀ (*Pavičević*); 21.07.1997, 1 ♀ (*Pavičević*). - Fruška Gora, Stražilovo, 30.05.-26.06.1998, 1 ♀ (*Ilić*). **Serbia:** Mts. Radan, Sokolovica-Bačije, 1100 m, 17.05-17.06.1989, 3 ♂, 2 ♀ (*Pavičević & Popović*). - Ovčarsko-Kablarška creg, Ovčar Banja, Debela gora, 600 m, 16.04-19.05.1995, 1 ♂, 2 ♀ (*Nonveiller & Pavičević*). - Mts. Šara, Gužbaba, 2300 m, 02.07.1997, 1 ♂ (*Stevanović*). - Valley of Resava river, Suvaja creg, 04.07.1997, 1 ♂ (*Pavičević*). - Mts. Babička Gora, Gmitrov kladenac, 800 m, 03.08.1999, 1 ♂ (*Stevanović*). **Montenegro:** Mts. Bjela Gora, Grahovo, 1300 m, 1929, 1 ♀ (*Fodor*), TMB. - Mts. Durmitor, Valley of Sušica river, 07-27.07.1933, 1 ♀ (*Fodor*). - Mts. Durmitor, Zminje jezero, 1400 m, 03.07.1958, 1 ♂ (*Fodor & Szekessy*), TMB. **Macedonia:** Mts. Šara,

Ljuboten, 04-18.07.1935, 2 ♀ (*Fodor*), TMB.

2. Genus *Amphicyllis* Erichson, 1845

4. *Amphicyllis globiformis* (Sahlberg, 1833)

General distribution.- Europe, Caucasus and Japan (ANGELINI, *et al.*, 1993: 95).

Data from literature.-NOVAK (1952): Croatia: Mts. Velebit-Paklenica - ANGELINI & DE MARZO (1985: 15): Former Yugoslavia. - ANGELINI (1988b: 306): Slovenia: Šenpeter (*Springer*), Vremščica (*Springer*), Kras-?Orlek (*Springer*).

Examined material.- **Slovenia:** Ljubljana, 1ex (*Grabowski*), TMB. **Bosnia:** Sarajevo, 1ex (*Apfelbeck*), TMB. - Sarajevo, Pale, 12.1934, 2ex (*Fodor*), TMB. - Mts. Trebević, 2ex (*Apfelbeck*); 1ex (*Gender*), TMB. - Mts. Majevica, 2ex (*Zoufal*), TMB. **Herzegovina:** Mostar, 2 ♀ (*Grabowski*), TMB. - Ljubinja, 1ex (*Matzenauer*); 4ex (*Grabowski*), TMB. - Jablanica, 2ex (*Paganetti*), TMB. **Serbia:** Mts. Kosmaj, 03.03.1983, 1 ♂, 1 ♀ (*Nonveiller*). - Mts. Murtenica, 1200 m, 07-30.06.1996, 1 ♂ (*Pavičević & Popović*). - Mts. Bukovi, 800 m, 01.06.1997, 1 ♀ (*Ilić*). - Mts. Šara, Durlov potok, 1500 m, 21-30.07.1995, 3 ♀ (*Pavičević*); Čop, 1200 m, 27.06-16.07.1995, 1 ♀ (*Pavičević & Popović*). - Mts. Šara, Gužbaba, 2300 m, 02.07.1997, 1 ♂ (*Stevanović*); Prevalac, 1550 m, 11.06-16.06.1997, 1 ♂ (*Ilić*). - Piroć, Zvonačka banja, Prskalo, 520 m, 28.04.2002, 2 ♂, 3 ♀ (*Jaszay*). - Mts. Vidlič, Prevoj, 900 m, 30.04.2002, 1 ♀ (*Hlavač*); Vzganica, 1100 m, 2 ♀ (*Hlavač*). **Montenegro:** Krivošije, 1ex (*Paganetti*), TMB. - Mts. Durmitor, jezero Sušice, 12-24.07.1933, 1 ♂ (*Fodor*), TMB. - Krivošije, Knezlaz, 600 m, 01.05-02.07.1997, 3 ♂ (*Pavičević & Popović*). **Macedonia:** Mts. Šara, Ljuboten, 04.-18.07.1935, 1 ♀ (*Fodor*); Popova Šapka, 26.07.1935, 1 ♂ (*Fodor*), TMB. - Mts. Buševa, Kruševo, 14.08.1989, 1 ♂ (*I. Karaman*). - Mts. Skopska Crna Gora, Creševo, 04.05.1997, 1 ♂ (*Podlussany & Rozner*), TMB. - Prilep, Volkovo, 06.05.1997, 1 ♀ (*Podlussany & Rozner*), TMB. - Mts. Skopska Crna Gora, 1400-

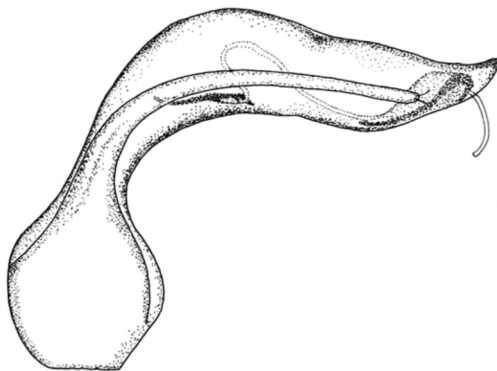


Fig. 1. *Anisotoma orbicularis* (Herbst, 1972) (♂, Serbia, Mts. Radan): aedeagus lateral.

1500 m, 28.05.1998, 1 ♂ (*Orosz*), TMB.

5. *Amphicyllis globus* (Fabricius, 1792)

General distribution.- Europe, Caucasus (PEEZ, 1971: 261; ANGELINI & DE MARZO, 1985: 16) and central Asia (ANGELINI, *et al.*, 1993: 95).

Data from literature.- ANGELINI (1988b: 307): Slovenia: Plave (*Springer*).

Examined material.- Slovenia: Ljubljana, 1 ex (*Grabowski*), TMB. **Bosnia:** Mokre poljane, 1 ♂ (*Zoufal*), TMB. - Mts. Igman, 4 ex (*Apfelbeck*); 05.11.1929, 1 ♂ (*Fodor*), TMB. - Sarajevo, 4 ex (*Apfelbeck*), TMB. - Sarajevo, Pale, 12.1934, 1 ex (*Fodor*), TMB. - Pazarić, Village Krupa, 1 ex (*Apfelbeck*); 07.09.1935, 3 ex (*Fodor*), TMB. - Mts. Ivan, 1 ex (*Apfelbeck*), TMB. - Vareš, Rajtov Han, 25.11.1935, 3 ex (*Fodor*), TMB. **Herzegovina:** Bileća, 1 ♀ (*Apfelbeck*), TMB. **Serbia:** Mts. Radan, Sokolovica-Bačije, 1100 m, 17.05-17.06.1989, 1 ♀ (*Pavičević & Popović*). - Mts. Šara, Čop, 1200 m, 27.06-16.07.1995, 1 ♂, 3 ♀ (*Pavičević & Popović*); Durlov potok, 1500 m, 21.07-30.07.1995, 1 ♀ (*Pavičević*). - Mts. Murtenica, 1200 m, 07-30.06.1996, 1 ♂ (*Pavičević & Popović*). - Svilajnac, Bačica, 600 m, 06.1996, 4 ♂, 4 ♀ (*Ilić*). - Valjevo, canyon Lastva river, 23.07.1997, 1 ♂, 1 ♀ (*Ilić*). - Valley of Resava river, Suvaja creg, 24.07.1997, 2 ♀ (*Pavičević & Karaman*). - Mts. Suva, Devojački grob, 1400 m, 18.07.1999, 1 ♀ (*Stevanović*). - Mts. Kamenički Vis, Popšica, 550 m, 17.06.2001, 1 ♀ (*Pavičević & Stevanović*). - Pirot, Zvonačka banja, Prskalo, 520 m, 28.04.2002, 1 ♀ (*Hlavač*); 2 ♀ (*Jaszay*). - Mts. Vidlič, Vzganica, 1100 m, 30.04.2002, 1 ♀ (*Hlavač*). - Dimitrovgrad, Petrlaš, 780 m, 02.05.2002, 1 ♂, 2 ♀ (*Hlavač*). **Montenegro:** Zelenika, 4 ex, TMB. - Herceg Novi, 1 ex (*Apfelbeck*), TMB. - Grahovo, Bjele vode, 1929, 1 ♂ (*Fodor*), TMB. **Macedonia:** Mts. Buševa, Kruševo, 14.08.1989, 1 ♂ (*I. Karaman*).

3. Genus *Liodopria* Reitter, 1909

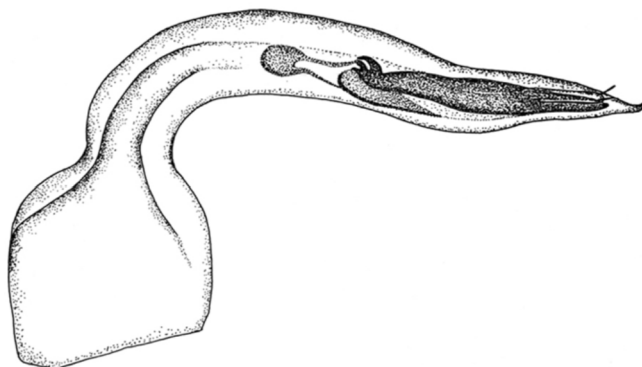


Fig. 2. *Anisotoma humeralis* (Fabricius, 1792) (♂, Serbia, Mts. Šar): aedeagus lateral.

6. *Liodopria serricornis* (Gyllenhal, 1813)**General distribution.-** North and central Europe (PEEZ, 1971: 261).**Data from literature.-** We found no data from the territory of former Yugoslavia for this species.**Examined material.- Montenegro:** Mts. Durmitor, Sušičko jezero, 1100 m, 22.07.1954, 1 ♀ (*Mrkić*).4. Genus *Agathidium* Panzer, 1797subgenus *Cyphocele* C.G. Thomson, 18597. *Agathidium (Cyphocele) discoideum* Erichson, 1845**General distribution.-** Europe, eastern Siberia, Mongolia (ANGELINI, 1995: 452).**Data from literature.-** ANGELINI (1995: 48): Croatia: Ludbreg, Plitvice. Bosnia: Jajce, Sarajevo, Mts. Bjelašnica (*Matzenauer*). Montenegro: Krivošije.**Examined material.- Bosnia:** Jajce, Jezero, 1902, 1 ♂ (*Apfelbeck*), TMB. - Mts. Radova, 23.07.1930, 1 ♀ (*Fodor*), TMB.8. *Agathidium (Cyphocele) nigrinum* Sturm, 1807**General distribution.-** Europe (ANGELINI, 1995: 452).**Data from literature.-** ANGELINI (1988b: 311): Slovenia: Slavník (*Springer*), Šenpeter (*Springer*), Kras. ANGELINI (1995: 62): Slovenia: Pokljuka, Šenpeter, Slavník, Štajerska. Istra: Učka. Croatia: Pakrac. Bosnia: Zavidovići, Bjeljina, ridge Makljen, Mts. Bjelašnica. Herzegovina. Serbia: Predejane, Kučaj.**Examined material.- Bosnia:** Mts. Bjelašnica, 1900, 1 ex (*Diener*), TMB. - Zavidovići, 24.10.19113, 1 ♂ (*Kendi*), TMB. - Goražde, 10.1928, 2 ex (*Fodor*), TMB. **Herzegovina:** 1 ex, without more detailed data (*Reitter*), TMB. **Vojvodina:** Srem, Surčin, 24.05.1955, 1 ♀ (*Nonveiller*). **Macedonia:** Skopje, Orhanić, 1 ♀ (without data and collector), TMB.subgenus *Neoceble* Gozis, 18869. *Agathidium (Neoceble) haemorrhoum* Erichson, 1845

This species occurs in central Europe and the Caucasus (ANGELINI, 1995: 454). From the present study area ANGELINI (1988b: 312 and 1995: 88) mentions it from Slovenia: ?Nebresina and Podgorje.

We have not had an opportunity to study this species.

10. *Agathidium (Neoceble) pseudopallidum* Hlisnikovski, 1964**General distribution -** Italy, former Yugoslavia, Greece, Bulgaria, Rumania, Hungary, Czech and Slovak Republics, western Ukraine (ANGELINI, 1995: 456).

Data from literature.- HLISNIKOVSKY (1964:106) and ANGELINI (1988b: 312): Croatia: Plitvice. - ANGELINI (1995: 92): Croatia: Plitvice, Slavonija, Ludbreg, Zagreb Bosnia: Višegrad, Sarajevo-Hum, Čelić, Mts. Bjelašnica, Mts. Majevica. Herzegovina: Jablanica, Ljubinje. Montenegro: Herceg Novi, Mts. Mokra Gora-Murino. Macedonia: Skopje-Orhanić.

Examined material.- Bosnia: Sarajevo, Hum, 01.10.1935, 1 ♂ (*Fodor*), TMB. **Herzegovina:** "Ercegovina", 1 ex, without more detailed data (*Reitter*), TMB. - Domanovići, 1 ♂ (*Hensch*), TMB. - Jablanica, 1 ♂ (*Apfelbeck*), TMB. **Serbia:** Mts. Kosmaj, 03.03.1983, 4 ♂; 24.04.1985, 1 ♀ (*Nonveiller*). - Mts. Rudnik, Donja Šatornja, 19.05.1985, 1 ♂ (*Nonveiller & Pavičević*); 08.05.1998, 1 ♀ (*Nonveiller & Pavičević*); 16.03-18.05.1998, 1 ♂ (*Nonveiller & Pavičević*). - Mts. Rudnik, Ostrovnica, 13.07.1997, 1 ♂ (*Pešić*); Ramački visovi, 26.01.1997, 1 ♂, 2 ♀ (*Pešić*). - Ovčarsko-Kablarska crag, "Preobraženje" monastery, 600 m, 30.04-24.05.1996, 1 ♂, 2 ♀ (*Ilić*). - Kragujevac, Žeželj, 470 m, 02.01.1996, 1 ♂, 1 ♀ (*Pešić*). - Mts. Homoljske, Ceremošnja, 600 m, 12.07.1997, 2 ♀ (*Ilić*); 09.07.1998, 1 ♂ (*Pavičević*). - Mts. Jastrebac, Mala ravan, 18.04.1998, 1 ♂ (*Pešić*). - Mts. Suva, Preslap-Duga lokva, 1100 m, 16.06-17.07.2001, 3 ♀ (*Stevanović, Pavičević & Popović*). - Mts. Svrljiške, Beloinjska korita, 950 m, 19.07.2001, 1 ♂ (*Stevanović*). - Mts. Stara, Dojkinci, 850 m, 29.04.2002, 1 ♀ (*Stevanović & Pavičević*). **Macedonia:** Mts. Skopska Crna Gora, "Sveti Ilija" monastery, 29.04.1972, 2 ♀ (*Podlussany & Rozner*), TMB.

11. *Agathidium (Neoceleble) varians varians* Beck, 1817

General distribution.- Europe (ANGELINI, 1995: 456).

Data from literature.- HLISNIKOVSKY (1964: 86): Croatia: Skrad. Bosnia: Čelić, Mts. Majevica. Vojvodina: Fruška gora. Montenegro: Krivošije-Radostak. - ANGELINI (1995: 98): Slovenia: Koruška, Štajerska. Croatia: Zagreb. Bosnia: Sarajevo-Hum, ridge Makljen. Herzegovina. Vojvodina: Ruma. Montenegro: Herceg Novi.

Examined material.- Serbia: Mts. Vidlič, Prevoj, 900 m, 30.04.2002, 1 ♀ (*Hlavač*).

12. *Agathidium (Neoceleble) aglyptoides* Reitter, 1884

This species occurs in Italy and former Yugoslavia (ANGELINI, 1995: 452). ANGELINI (1986: 148) mentions it from the study area: Croatia: Ljesko; and then he adds Bosnia: Stambulčić, Sarajevo-Pale. Montenegro: Mts. Bjela Gora-Grahovo (ANGELINI, 1995: 136).

We have not found this species in the examined material.

13. *Agathidium (Neoceleble) brisouti* Reitter, 1884

General distribution.- Central, western Caucasus, central and eastern Europe (ANGELINI, 1995: 453).

Data from literature.- ANGELINI (1988a: 11): Bosnia: Mts. Majevica (*Schalberg*). - ANGELINI (1995: 152): Dalmatia. Bosnia: Mts. Ivan, Herzegovina: Domanovići (*Mensch*), Jablanica. Montenegro: Krivošije, Herceg Novi, Mts. Bjela Gora-Grahovo, Topla. Macedonia: Skopje-Orhanić.

Examined material.- Bosnia: Mts. Ivan, 1ex (*Reitter*), TMB. **Herzegovina:** Jablanica, 2♂, 1♀ (*Reitter*), TMB. - Domanovići, 2ex (*Hensch*), TMB. **Montenegro:** Herceg Novi, 4♂, 1♀ (*Apfelbeck*), TMB. - Mts. Bjela Gora, Grahovo, 1300 m, 1929, 1ex (*Fodor*), TMB.

14. *Agathidium (Neoceble) plagiatum* (Gyllenhal, 1810)

General distribution.- Europe, Turkey, central Iran, Caucasus (ANGELINI, 1995: 455).

Data from literature.- REITTER (1885: 203): Bosnia. - ANGELINI (1995: 168): Slovenia: Hvozdnica. Croatia: Ludbreg, Plitvice, Pakrac. Bosnia: Mts. Ivan, Mts. Jahorina, Pazarić. Herzegovina: Bileća. Vojvodina: Ruma. Montenegro: Mts. Durmitor-Zminje jezero, Krivošije.

Examined material.- Bosnia: Pazarić, village Krupa, 15.06.1936, 1ex (*Fodor*), TMB. - Pazarić, Zovik, 21.05.1937, 3ex (*Fodor*), TMB. - Mts. Ivan, 1♀ (*Apfelbeck*), TMB. **Montenegro:** Mts. Durmitor, valley of Sušica river, 07-27.07.1935, 1ex (*Fodor*); Zminje jezero, 03.07.1958, 1ex (*Kaszab & Szekessy*), TMB. **Macedonia:** Prilep, Volkovo, 06.05.1997, 2♂ (*Podlussany*), TMB

15. *Agathidium (Neoceble) confusum* Brisout, 1863

General distribution.- Europe, Caucasus, Siberia, Mongolia, Japan (ANGELINI, 1995: 453).

Data from literature.- ANGELINI (1995: 182-183): Slovenia: Pokljuka, Pohorje. Croatia: Plitvice (*F. Tax*). Bosnia: Stambulčić.

Examined material.- Croatia: "Croatia", 1♀, without more detailed data, TMB.

16. *Agathidium (Neoceble) rotundatum rotundatum* (Gyllenhal, 1872)

This species occurs in Europe, Algeria and Azerbaijan (ANGELINI, 1995: 456). For the territory of former Yugoslavia ANGELINI (1995: 193) mentions it from Slovenia (Bistrica and Podbilca) and Croatia.

We have not found this species in the material examined.

17. *Agathidium (Neoceble) nudum* Hampe, 1870

General distribution.- France, Czech and Slovak Republics, Austria, Italy, Hungary, Romania, former Yugoslavia, Azerbaijan, Georgia (ANGELINI, 1995: 455).

Data from literature.- REITTER (1879: 50): Bosnia: Ljeskovac. - ANGELINI (1988a: 13): Montenegro: Mts. Maglić (*Obenberger*) - ANGELINI (1995: 200): Slovenia: Podbilca, Lomnica. Croatia: ridge Makljen, Mts. Bjelašnica. Herzegovina: Bileća-Ubli. Montenegro: Mts. Bjela Gora-Grahovo; Mts. Durmitor-Zminje jezero; Krivošije.

Examined material.- Bosnia: Sarajevo, Mts. Trebević, 08.1929, 2♂ (*Fodor*), TMB. - Hill Trešnjevnik, 26.07.1938, 1ex (*Fodor*), TMB. **Herzegovina:** Mts. Čvrstica, 14-15.07.1931, 1♂ (*Fodor*), TMB. **Vojvodina:** Fruška gora, cave in village Grgurevci, 22.03.1997, 1♀ (*I. Karaman*). **Serbia:** Valley of Resava river, Suvaja creg, 22.09.2001, 1♀ (*Pavićević*). **Montenegro:** Mts. Bjela Gora,

Grahovo, 1300 m, 1929, 5ex (*Fodor*), TMB. - Mts. Durmitor, Zminje jezero, 03.07.1958, 1 ♀ (*Kaszab & Szekessy*), TMB.

18. *Agathidium (Neoceble) nigripenne* (Fabricius, 1792)

General distribution.- Europe, Caucasus (ANGELINI, 1995: 455).

Data from literature.- ANGELINI (1988b: 321): Slovenia: Julijske Alpi- Mts. Nanos (*Springer*). - ANGELINI (1995: 208): Slovenia: Julijske Alpi- Mts. Nanos, Ljubljana. Croatia: Delnice, Kapela, Ludbreg, Plitvice, Slavonija, Mts. Risnjak. Bosnia: Mts. Ivan, Zavidovići, Mts. Bjelašnica, Mokre poljane, ridge Makljen. Montenegro: Mts. Bjela Gora-Grahovo.

Examined material.- **Bosnia:** Zavidovići, 07.06.1912, 1ex (*Kendi*), TMB. - Sarajevo, river Miljacka, 29.11.1937, 1ex (*Fodor*), TMB. - Mts. Radoš, 1937, 1 ♀ (*Winneguth*), TMB. - Mokre poljane, 2ex (*Zoufal*), TMB.

19. *Agathidium (Neoceble) mandibulare* Sturm, 1807

General distribution.- Europe, Caucasus (ANGELINI, 1995: 454).

Data from literature.- REITTER (1885: 203): Bosnia. - ANGELINI (1988b: 326): Slovenia: Julijske Alpi-Mts. Nanos (*Springer*), Ivomir (*Springer*), Šenpeter (*Springer*). - ANGELINI (1995: 212): Slovenia: Hrušica-Javornik, Julijske Alpi-Mts. Nanos, Šenpeter, Slavnik. Istra: Učka. Dalmatia: Biokovo. Croatia: Kijevo-Vrlika, Ludbreg, Slavonija, Pakrac. Bosnia: Hill Trešnjevnik, Mts. Bjelašnica, Stambulčić, Sarajevo, Mts. Trebević, Mts. Igman, Mts. Majeвица, ridge Makljen, Mts. Radova, Mts. Čemernica. Herzegovina: Stolac, Mts. Volujak, Mts. Čvrstica. Montenegro: Krivošije, Mts. Durmitor, Mts. Komovi. Macedonia.

Examined material.- **Croatia:** Kijevo, Vrlika, 03.10.1933, 1 ♀ (*Fodor*), TMB. **Bosnia:** Stambulčić, 1 ♂, 1 ♀ (*Zoufal*), TMB. - Bosnia, 1 ♂, without more detailed data (*Bokor*), TMB. - Sarajevo, 1 ♀ (*Apfelbeck*), TMB. - Sarajevo, Mts. Trebević, 06.07.1931, 1 ♀ (*Fodor*), TMB. - Mts. Bjelašnica, 1900, 2 ♀ (*Diener*), TMB. - Hill Trešnjevnik, 26.07.1938, 1 ♀ (*Fodor*), TMB. **Herzegovina:** Mts. Čvrstica, 14-15.07.1931, 1 ♂ (*Fodor*), TMB. **Serbia:** Mts. Šara, Čop, 1200 m, 25.07.1995, 1 ♂ (*Pavičević & Popović*); Gužbaba, 2300 m, 02.07.1997, 1 ♀ (*Stevanović*). - Mts. Goč, Dobro vodo, 940 m, 16.09.1989, 1 ♂ (*Pavičević*).

20. *Agathidium (Neoceble) bescidicum* Reitter, 1884

This species occurs in Germany, Hungary, Poland, Russia, Ukraine, Czech and Slovak Republics, former Yugoslavia and Greece (ANGELINI, 1995: 453). From the study area ANGELINI (1995: 214) mentions from Slovenia: Podbilca.

We have not found this species in the material examined.

21. *Agathidium (Neoceble) marginatum* Sturm, 1807

The species occurs in Europe, Algeria, Turkey, Syria, Iran, Kazakhstan, Kyrgyzstan, Mongolia, Siberia and Caucasus (ANGELINI, 1995: 454). From the study area ANGELINI (1988b: 326) mentions: Slovenia: Vremščica (*Springer*) and Istra: Slavnik (*Springer*), Mts. Nanos (*Springer*) and then he adds Slovenia: Bled. Istra: Učka. Serbia. Montenegro: Mts. Durmitor (ANGELINI, 1995: 228).

We have not found this species in the material examined.

22. *Agathidium (Neoceble) aff. shalbergi* Reitter, 1900

General distribution.- Greece, Turkey, Israel and Cyprus (ANGELINI, 1995: 456).

Data from literature. - The species is recorded here for the first time from the territory of former Yugoslavia.

Examined material.- Macedonia: Torbešija, Donji Kolican, 30.04.1997, 1 ♀ (*Podlussany & Rozner*), TMB.

23. *Agathidium (Neoceble) montemurroi* ANGELINI & De Marzo, 1985

This species occurs in Hungary, Italy and former Yugoslavia (ANGELINI, 1995: 248). From the study area ANGELINI & DE MARZO (1985: 173) mention it from Slovenia (Breznica- *leg.* ANGELINI; Podgrad- *leg. Roubal*) and Bosnia (Mts. Ivan- *leg.* ANGELINI).

We have not found this species in the material examined .

subgenus *Agathidium* Panzer, 1797 (**s. str.**)

24. *Agathidium (s. str.) seminulum* (Linne, 1758)

General distribution.- Europe, Turkey, Algeria, Turkmenistan and Caucasus (ANGELINI, 1995: 460).

Data from literature.- REITTER (1885: 203): Bosnia. - ANGELINI (1995: 287): Slovenia: Kranj, Breznica, Mts. Jelovica, Posavje. Croatia: Zagreb, Plitvice, Ludbreg, Ogulin, Kapela. Bosnia: Kobilja Glava, Mts. Zvijezda, hill Trešnjevik, Sarajevo, ridge Makljen, Mts. Majevica. Herzegovina. Vojvodina: Ruma. Montenegro: Mts. Bjela Gora, Mts. Komovi, Krivošije-Kruševica.

J. Cooter coll.- Montenegro: Mts. Bjelasica, Biogradska Gora, 1000 m, 14.06.1991, 1ex (*H. Mendel*). -

Examined material.- Bosnia: "Bosnia", 1 ♀, without more detailed data (*Reitter*), TMB. - Čelić, 1 ♂, 2 ♀ (*O. Reiss*), TMB. - Mts. Zvijezda, 14-18.07.1930, 1ex (*Fodor*), TMB. - Sarajevo, 1 ♂ (*Apfelbeck*), TMB. - Sarajevo, Kobilja Glava, 24.04.1936, 4ex (*Fodor*), TMB. **Herzegovina:** 1 ♂, without more detailed data (*Reitter*), TMB. **Serbia:** Ovčarsko-Kablarska crag, Ovčar Banja, Debela gora, 600 m, 16.04-19.05.1995, 1 ♂ (*Nonveiller & Pavićević*). **Montenegro:** Mts. Orjen, Vrbanj, 1250 m, 04.07.1997, 1 ♀ (*Pavićević, Popović & I. Karaman*).

25. *Agathidium (s. str.) pisanum* Brisout, 1872

General distribution.- Europe, Georgia, Azerbaijan and Turkey (ANGELINI, 1995: 459).

Data from literature.- ANGELINI (1988b: 328): Slovenia: Julijske Alpi- Mts. Nanos (*Springer*). - ANGELINI (1995: 320): Slovenia: Breznica, Julijske Alpi- Mts. Nanos, Križna Jama, Slavnik-Jela. Istra: Učka. Croatia: Mts. Velebit-Sveto Brdo, Mts. Velebit-Baške Oštarije, Ludbreg, Pakrac, Plitvice, Mts. Risnjak. Bosnia: Miljeno, hill Trešnjevik, Mts. Ivan, Pazarić-village Krupa, Pazarić, Stam-

bulčić, Mts. Cemernica, Mokre poljane, Mts. Bjelašnica, Mts. Majevica, Sarajevo-Mts. Trebević. Herzegovina: Jablanica. Vojvodina: Ruma. Serbia: Medveđa. Montenegro: Krivošije, Mts. Durmitor. Macedonia: Mts. Šara-Ljuboten.

J. Cooter coll.- Slovenia: Trnovo, "Trnovska pečina", 29.06.1981, 1ex. - Jelenec, 06.04.1978, 1ex (*Gottwald*). - Dobžinska, 25.07.1987, 1ex (*Ruzicka*). **Montenegro:** Mts. Durmitor, Jablan jezero, 1800 m, 10.06.1985, 5ex (*J. & J.E. Cooter*).

Examined material. Bosnia: "Bosnia", 1♂, without more detailed data (*Marak*), TMB. - Mts. Ivan, 3♂, 1ex (*Reitter*); 1ex (*Ganglbauer*); 1ex (*Garger*); 6ex (*Apfelbeck*), TMB. - Sarajevo, Mts. Trebević, 11.05.1929, 1ex (*Fodor*); 18.05.1929, 2♂ (*Fodor*); 08.1929, 1♂, 1♀ (*Fodor*), TMB. - Hill Trešnjevik, 26.07.1938, 3♂, 2♀ (*Fodor*), TMB. - Mts. Bjelašnica, 1901, 1♂ (*Reitter*), TMB; 11.09.1929, 1♀ (*Fodor*), TMB. - Pazarić, village Krupa, 07.11.1933, 1♂, 1♀ (*Fodor*), TMB. **Serbia:** Mts. Stol, 800 m, 15.05.1982, 1♂ (*Nonveiller*). - Avala, Čarapičev brest, 22.04.1984, 1♀ (*Četković*). - Mts. Jastrebac, Ravnište, 1200 m, 18.05-17.06.1989, 1♂, 1♀ (*Pavičević & Popović*). - Mts. Radan, Sokolovica-Bačije, 1100 m, 17.05-17.06.1989, 1♂ (*Pavičević & Popović*). - Mts. Gledičke, Crni vrh, 16.07.1994, 1♂ (*Pešić*). - Ovčarsko-Kablarska crag, Ovčar Banja, Debela gora, 600 m, 16.04-19.05.1995, 1♂ (*Nonveiller & Pavičević*). - Mts. Murtenica, 1200 m, 07-30.06.1996, 1♀ (*Pavičević & Popović*). - Valjevo, Canion Lastva river, 23.07.1997, 1♀ (*Ilić*). - Mts. Svrliške, Ribarska korita, 850 m, 08.06-11.07.1998, 4♂, 9♀ (*Stevanović & Popović*). - Mts. Suvobor, Rajac, Dobro vode, 11.12.1999, 1♂ (*Pavičević*). - Mts. Suva, Đadina livada, 1000 m, 20.05.2001, 1♂ (*Stevanović*). **Montenegro:** Mts. Durmitor, Valley of Sušica river, 07-27.07.1933, 1♂, 3♀ (*Fodor*), TMB. **Macedonia:** Mts. Šara, Ljuboten, 04-18.07.1935, 2♂, 4♀ (*Fodor*), TMB. - Mts. Šara, 07.07.1935, 2♀ (*Fodor*), TMB. - Prilep, Volkovo, 06.05.1997, 2♂ (*Podlussany & Rozner*), TMB. - Mts. Bjelasica, Strumica, Bansko, 680 m, 17.05-13.06.1998, 1♂ (*Ilić*).

26. *Agathidium* (s. str.) *badium* Erichson, 1845

General distribution.- Europe, Turkey, central Iran and Caucasus (ANGELINI, 1995: 457).

Data from literature.- REITTER (1885: 203): Bosnia. - ANGELINI (1988b: 330): Slovenia: Javomir (*Springer*). Istra: Mts. Lisina (*Springer*). - ANGELINI (1995: 323-324): Slovenia: Bistrica, Bled, Breznica. Istra: Mts. Lisina. Croatia: Plitvice. Bosnia: Mts. Bjelašnica, Mts. Jahorina, Kladanj, Mačak, Pazarić-Zovik, Prozor, Sarajevo, hill Trešnjevik, Zavidovići, Metaljka. Montenegro: Mts. Bjela Gora, Krivošije, Zelenika. Macedonia: Mts. Šara-Ljuboten.

J. Cooter coll.- Montenegro: Mts. Durmitor, Kamenjača, 1650 m, 1ex (*J. & J.E. Cooter*). - Mts. Durmitor, Jatare, 1650 m, 10.06.1985, 4ex (*J. & J.E. Cooter*). - Mts. Bjelasica, Biogradska Gora, 1000 m, 14.06.1991, 1ex (*H. Mendel*).

Examined material.- Bosnia: Mačak, 1ex (*Ganglbauer*), TMB. - Zavidovići, 1♀ (*Serger*), TMB. - Sarajevo, Pale, 12.1934, 2♀ (*Fodor*), TMB. - Hill Trešnjevik, 26.07.1938, 3♂, 5♀ (*Fodor*), TMB. - Pazarić, Zovik, 21.05.1937, 1♀ (*Fodor*), TMB. **Serbia:** Mts. Kosmaj, 03.03.1983, 1♀ (*Nonveiller*). - Mts. Jastrebac, Ravnište, 1200 m, 18.05-17.06.1989, 1♀ (*Pavičević & Popović*). - Mts.

Goč, Dobre vode, 940 m, 16.09.1989, 3 ♂, 1 ♀ (*Pavičević*). - Ovčarsko-Kablarska crag, "Preobraženje" monastery, 600 m, 30.04-24.05.1996, 2 ♀ (*Ilić*). - Mts. Murtenica, 1200 m, 07-30.06.1996, 1 ♂, 1 ♀ (*Pavičević & Popović*). - Mts. Šara, Prevalac, 1400 m, 16.07.1997, 1 ♀ (*Ilić*). - Mts. Svrljiške, Prekonoga, 500 m, 10.07.1998, 2 ♂ (*Stevanović*); Ribarska korita, 850 m, 15.06-17.07.2001, 2 ♂, 6 ♀ (*Stevanović & Pavičević*). - Mts. Miroč, village Štubac, 800 m, cave "Buronov ponor", 09.10.1999, 1 ♂ (*Ognjenović*). - Mts. Suva, Bojanine vode, 900 m, 14.06.2001, 1 ♂ (*Stevanović*). - Pirot, Zvonačka banja, Prskalo, 520 m, 28.04.2002, 1 ♂, 2 ♀ (*Hlavač*). - Mts. Vidlič, Vzganica, 1100 m, 30.04.2002, 2 ♂, 2 ♀ (*Hlavač*). - Dimitrovgrad, Petrlaš, 780 m, 02.05.2002, 1 ♂, 2 ♀ (*Hlavač*). **Montenegro:** Mts. Bjela Gora, Grahovo, 1300 m, 1929, 2 ♀ (*Fodor*), TMB. - Krivošije, 2 ex (*Paganetti*), TMB. **Macedonia:** Mts. Šara, Ljuboten, 04-18.07.1935, 3 ♂, 2 ♀ (*Fodor*), TMB. - Mts. Šara, 07.03.1935, 2 ♂ (*Fodor*), TMB.

27. *Agathidium* (s. str.) *atrum* (Paykull, 1798)

General distribution.- Europe, Turkey, Caucasus and Siberia (ANGELINI, 1995: 457).

Data from literature.- REITTER (1879: 50): Croatia: Kapela. - REITTER (1885: 203): Bosnia. - ANGELINI (1988b: 327): Slovenia: Julijske Alpi-Plave (*Springer*), Kras (*Springer*), Julijske Alpi-Mts. Nanos, Kras-Veliki dol. Istra: Plavnik. - ANGELINI (1995: 334): Slovenia: Bled, Julijske Alpi-Mts. Nanos, Julijske Alpi-Plave, Solkan. Mts. Istra: Plavnik. Croatia: Velebit-Baške Oštarije, Kapela, Plitvice, Slavonija. Županja. Bosnia: Sarajevo, Mts. Igman, Mts. Ivan, Mts. Bjelašnica, Maglaj-cave "Megara", Travnik, Pazarić, Prozor, Zavidovići (*Kendi*), Žepče, ridge Makljen. Herzegovina: Jablanica, Mts. Velež. Vojvodina: Fruška gora, Ruma. Macedonia: Mts. Bistra-Galičnik, Skopje-Orhanić.

Examined material.- Istra: Vozice, 03.02.1916, 1 ex (*Fodor*), TMB. **Bosnia:** Mts. Igman, 1 ♂ (*Apfelbeck*), TMB. - Sarajevo 1 ♂, 1 ♀ (*Apfelbeck*), TMB. - Mts. Ivan, 2 ♂, 1 ♀ (*Apfelbeck*), TMB. - Zavidovići, 1 ex (*Kendi*), TMB. - Pazarić, 06.10.1929, 2 ex (*Fodor*), TMB. - Pazarić, village Krupa, 26.09.1934, 1 ♂ (*Fodor*), TMB. - Maglaj, cave "Megara", 09-15.08.1934, 3 ex (*Fodor*), TMB. **Herzegovina:** Jablanica, 1 ♂ (*Reitter*), TMB. - Herzegovina, 1 ♂ (*Grabowski*), TMB. **Vojvodina:** Fruška Gora, Stražilovo, 09-30.05.1998, 1 ♂ (*Ilić*). **Serbia:** Mts. Radan, Sokolovica-Bačije, 1100 m, 17.05-17.06.1989, 1 ♂ (*Pavičević & Popović*). - Mts. Jastrebac, Ravnište, 1200 m, 18.05-17.06.1989, 1 ♀ (*Pavičević & Popović*). - Ovčarsko-Kablarska crag, Ovčar Banja, Debela gora, 600 m, 16.04-19.05.1995, 1 ♂ (*Nonveiller & Pavičević*). - Ovčarsko-Kablarska crag, "Preobraženje" monastery, 600 m, 30.04-24.05.1996, 2 ♂, 4 ♀ (*Ilić*); 29.06.1996, 1 ♂, 1 ♀ (*Ilić*). - Mts. Murtenica, 1200 m, 31.07.1996, 1 ♀ (*Popović*). - Valley of Resava river, creg Suvaje, 24.07.1997, 1 ♂ (*Pavičević & Karaman*). - Mts. Kopaonik, Đerekare, 21.06.1996, 1 ♀ (*Ilić*); 22.06.1996, 1 ♀ (*Ilić*). - Valjevo, Canion Lastva river, 23.07.1997, 1 ♂ (*Ilić*). - Mts. Suva, Škrvena, 1400 m, 15.05-17.06.2001, 2 ♂, 2 ♀ (*Stevanović & Pavičević*). - Mts. Svrljiške, Ribarska korita, 850 m, 15.06-17.07.2001, 1 ♀ (*Stevanović & Pavičević*). - Pirot, Zvonačka banja, Prskalo, 520 m, 28.04.2002, 4 ♀ (*Hlavač*); 2 ♂, 5 ♀ (*Jaszay*). - Mts. Stara, Jablanica, 770 m, 29.04.2002, 1 ♂, 1 ♀ (*Hlavač*). - Mts. Vidlič, Vzganica, 1100 m, 30.04.2002, 9 ♂,

8 ♀ (*Hlavač*). - Pirot, Zvonačka banja, Jezero, 859 m, 01.05.2002, 1 ♂ (*Hlavač*). - Mts. Ruj, Rakita, 870 m, 1 ♂, 1 ♀ (*Stevanović*). - Dimitrovgrad, Petrlaš, 780 m, 02.05.2002, 1 ♂, 5 ♀ (*Hlavač*). **Macedonia:** Mts. Bistra, 07-14.07.1937, 2 ex (*Fodor*), TMB. - Mts. Bistra, Galičnik, 07-14.07.1937, 1 ♀ (*Fodor*), TMB. - Skopje, Torbešija, 30.04.1997, 1 ♀ (*Podlussany & Rozner*), TMB.

28. *Agathidium* (*s. str.*) *laevigatum laevigatum* Erichson, 1845

General distribution.- Europe, Caucasus, Siberia, Mongolia, Turkey, Malta, Cyprus, Israel, Iran, Himalayas (ANGELINI, 1995: 458).

Data from literature.- REITTER (1885: 203): Bosnia. - ANGELINI (1988b: 331): Slovenia: Fernetić (*Springer*). Istra: Mali Kras, Učka (*Schatzmayr*). - ANGELINI (1995: 348): Slovenia: Cerkno, Fernetić, Julijske Alpi-Mts. Nanos, Karavanke, Podgrad. Istra: Učka, Mali Kras, Portorož, Pula. Croatia: Mts. Dinara, Opatija. Bosnia: Mts. Bjelašnica, Goražde-Hrid, Zavidovići, Mts. Zvijezda, Mts. Igman, Sarajevo-Kobilja Glava, ridge Makljen, Mts. Majevica, Pale-Bistrica, Prozor, Sarajevo, Travnik, Vareš-Rajtov Han, Pazarić, Pazarić-Pašino Brdo Hercegovina. Vojvodina: Ruma. Serbia: Prizren (village V. Hoča). Montenegro: Vasojevići. Macedonia: Strumica.

Examined material.- Bosnia: Zavidovići, 1 ♂ (*Streda*), TMB. - Sarajevo, 4 ex (*Apfelbeck*), TMB. - Mts. Igman, 1 ♀ (*Apfelbeck*), TMB. - Pale, 1 ex (*Fodor*), TMB. - Pale, Bistrica, 10.1927, 1 ex (*Fodor*), TMB. - Pazarić, Pašino brdo, 04.1925, 1 ex (*Fodor*), TMB; 04.1936, 1 ex; 12.04.1937, 5 ex (*Fodor*), TMB. - Vareš, Rajtov Han, 25.11.1929, 1 ♀ (*Fodor*), TMB. - Goražde, 10.1928, 1 ex (*Fodor*), TMB. - Mts. Zvijezda, 14-18.07.1939, 2 ex (*Fodor*), TMB. **Serbia:** Mts. Radan, Sokolovica-Bačije, 1000 m, 17.05-17.06.1989, 1 ♂ (*Pavičević & Popović*). - Mts. Goč, Dobro vode, 940 m, 16.09.1989, 1 ♂, 1 ♀ (*Pavičević*). - Mts. Ozren, 09.05.1991 1 ♀ (*Pešić*). - Mts. Šara, Stojkova kuća, 1800 m, 25.06-15.07.1995, 1 ♀ (*Pavičević*); Velika livada, 11.06-16.07.1997, 1 ♀ (*Ilić*). - Ovčarsko-Kablarska crag, "Preobraženje" monastery, 600 m, 30.04-24.05.1996, 2 ♂, 2 ♀ (*Ilić*). - Mts. Bukovi, 800 m, 10.05-01.06.1997, 1 ♂ (*Ilić*). - Mts. Suva, Bojanine vode, 900 m, 14.06.2001, 1 ♂ (*Stevanović*); Škrvena, 1400 m, 15.05-17.06.2001, 4 ♂, 6 ♀ (*Stevanović & Pavičević*). - Pirot, Zvonačka banja, Prskalo, 520 m, 28.04.2002, 3 ♂, 10 ♀ (*Hlavač*); 4 ♂, 7 ♀ (*Jaszay*). - Mts. Stara, Jablanica, 770 m, 29.04.2002, 2 ♂ (*Hlavač*). - Mts. Vidlič, Prevoj, 900 m, 30.04.2002, 1 ♀ (*Hlavač*); Vzganica, 1100 m, 1 ♂, 1 ♀ (*Hlavač*). - Pirot, Zvonačka banja, Jezero, 850 m, 1 ♂, 2 ♀ (*Hlavač*). - Mts. Ruj, Rakita, 870 m, 01.05.2002, 2 ♂ (*Jaszay*). - Dimitrovgrad, Petrlaš, 780 m, 02.05.2002, 2 ♀ (*Hlavač*). - Pirot, Donja Držina, cave "Velika pećina", 1 ♀ (*Stevanović*). **Macedonia:** Skopje, Torbešija, 30.04.1997, 2 ♀ (*Podlussany & Rozner*), TMB. - Kavadarci, 01.05.1997, 1 ♀ (*Podlussany & Rozner*), TMB. - Prilep, Volkovo, 06.05.1997, 1 ♂ (*Podlussany & Rozner*), TMB. - Mts. Bjelasica, Strumica, Bansko, 680 m, 17.05-13.06.1998, 2 ♂, 3 ♀ (*Ilić*).

29. *Agathidium* (*s. str.*) *bohemicum bohemicum* Reitter, 1884

General distribution.- Germany, Czech and Slovak Republics, Poland, Hungary, Austria, Italy, former Yugoslavia, Bulgaria and Ukraine (ANGELINI, 1995: 457).

Data from literature.- ANGELINI & DE MARZO (1985: 176): Slovenia: Bled, Bohinjsko jezero, Kamno, Matajur, Pohorje, Posavje, Postojna, Trnovo (Trnovski gozd). Istra: Učka. Croatia: Mts. Velebit-Sveto Brdo, Mts. Velebit-Satorina, Delnice, Kapela (*F. Tax*), Fužine, Delnice-Lokve (*F. Tax*), Predolje, Plitvice, Zagreb. - ANGELINI (1988b: 336): Slovenia: Slavnik (Springer), Zasip (Springer), Kranj (Springer), Koruška (Springer), Julijske Alpi-Mts Nanos (Springer). - ANGELINI (1995: 391): Slovenia: Bled, Bohinjsko jezero, Kamno, Julijske Alpi-Mts. Nanos, Cerkno, Pohorje, Pokljuka, Posavje, Slavnik, Tolmin-Kneža, Zasip. Istra: Učka. Croatia: Delnice, Kapela, Mts. Velebit-Sveto Brdo, Mts. Velebit-Baške Oštarije, Predolje, Plitvice, Zagreb.

J. Cooter coll.- Istra: Učka, 20.08.1977, 1 ex (collector not recorded).

Examined material.- Serbia: Mts. Stol, 800 m, 12.05.1986, 1 ♂ (*Pavičević & Nonveiller*).

30. *Agathidium (s. str.) rambouseki* Hlisnikovsky, 1964

General distribution.- Yugoslavia and Albania (ANGELINI, 1995: 460).

Data from literature.- ANGELINI (1988a: 17): Mts. Kopaonik-Brus (*Rambousek*). - ANGELINI (1995: 398): Bosnia: Vareš-Rajtov Han. Herzegovina: Stolac. Montenegro: Mts. Komovi-Han Garaučić, Mts. Durmitor- Zminje jezero. Macedonia: Mts. Bistra-Galičnik, Mts. Pelister.

Examined material.- Serbia: Ovčarsko-Kablarska crag, Ovčar Banja, Debela gora, 600 m, 16.04-19.05.1995, 8 ♂, 5 ♀ (*Nonveiller & Pavičević*); 25.06.1996, 1 ♀ (*Ilić*); 02.05.1998, 1 ♀ (*Nonveiller & Pavičević*). - Ovčarsko-Kablarska crag, "Preobraženje" monastery, 600 m, 30.04-24.05.1996, 3 ♂, 6 ♀ (*Ilić*); 29.06.1996, 1 ♂ (*Ilić*). - Mts. Kopaonik, Đerekare, 21.06.1996, 3 ♀ (*Ilić*); 22.07.1996, 1 ♀ (*Ilić*). - Mts. Jastrebac, Ravnište, 1200 m, 18.05-17.06.1989, 1 ♂, 1 ♀ (*Pavičević & Popović*). - Mts. Jastrebac, Mala ravan, 18.04.1998, 1 ♂ (*Pešić*). - Mts. Murtenica, 1200 m, 07-30.06.1996, 1 ♂ (*Pavičević & Popović*). - Mts. Goč, Stanišinci, 900 m, 03.05.1990, 1 ♀ (*Nonveiller*). - Mts. Bukovi, 800 m, 10.05-01.06.1997, 2 ♂, 1 ♀ (*Ilić*). - Valjevo, Canion Lastva river, 23.06.1997, 1 ♂, 2 ♀ (*Ilić*). - Mts. Babička Gora, Dobro vode, 850 m, 07.06.2000, 1 ♂, 1 ♀ (*Stevanović*). - Mts. Suva, Đadine livade, 1000 m, 20.05.2001, 1 ♀ (*Stevanović*); Bojanine vode, 900 m, 14.06.2001, 1 ♂, 1 ♀ (*Stevanović*); Preslap-Duga lokva, 1100 m, 16.06-17.07.2001, 1 ♀ (*Stevanović, Pavičević & Popović*). - Pirot, Zvonačka banja, Prskalo, 520 m, 28.04.2002, 6 ♂, 8 ♀ (*Hlavač*); 7 ♂, 12 ♀ (*Jaszay*). - Mts. Stara, Jablanica, 770 m, 29.04.2002, 2 ♂ (*Hlavač*). - Mts. Vidlič, Vzganica, 1100 m, 30.04.2002, 2 ♂, 1 ♀ (*Hlavač*). - Mts. Ruj, Rakita, 870 m, 01.05.2002, 1 ♀ (*Jaszay*). **Montenegro:** Mts. Durmitor, Đurđevića Tara, 900 m, 23.06.1985, 1 ♂ (*Pavičević*); Splavište, 750 m, 24.06.1986, 1 ♀ (*Pavičević*).

31. *Agathidium (s.str.) leonhardianum* Roubal, 1915

This species occurs in Hungary, former Yugoslavia and Turkey (ANGELINI, 1995: 459). ANGELINI & DE MARZO (1983: 91) mention it from Mts. Pelister in Macedonia.

We have not found this species in the material examined.

Table I
Distribution of the species of tribe Agathidiini in the study area

	Slo	Istr	Dlm	Cro	Bos	Her	Voj	Ser	Mon	Mac
ANISOTOMA										
orbicularis					+		o	o	o	o
castanea					+				o	
humeralis		+			+		o	o	o	o
AMPHICYLLIS										
globiformis	+			+	o	o		o	o	o
globus	+				o	o		o	o	o
LIODOPRIA										
serricornis									o	
AGATHIDIUM										
discoideum				+	+				+	
nigrinum	+	+		+	+	+	o	+		o
haemorrhoum	+									
pseudopallidum				+	+	+		o	+	+
varians varians	+			+	+	+	+	o	+	
aglyptoides				+	+				+	
brisouti			+		+	+			+	+
plagiatum	+			+	+	+	+		+	o
confusum	+			+	+					
rotundatum rotundatum	+			+						
nudum	+			+	+	+	o	o	+	
nigripenne	+			+	+				+	
mandibulare	+	+	+	+	+	+		o	+	+
bescidicum	+									
marginatum	+	+						+	+	
aff. shalbergi										o
montemurroi	+				+					
seminulum	+			+	+	+	+	o	+	
pisanum	+	+		+	+	+	+	+	+	+
badium	+	+		+	+			o	+	+
atrum	+	+		+	+	+	+	o		+
laevigatum laevigatum	+	+		+	+	+	+	+	+	+
bohemicum bohemicum	+	+		+				o		
rambouseki					+	+		+	+	+
leonhardianum										+
dentatum dentatum	+									
T O T A L:	21	9	2	18	23	14	10	17	21	16
o	-	-	-	-	2	2	4	12	6	7

Slo = Slovenia; **Voj** = Vojvodina; **Istr** = Istra; **Ser** = Serbia; **Dlm** = Dalmatia;

Mon = Montenegro; **Hrv** = Croatia; **Mac** = Macedonia; **Bos** = Bosnia; **Her** = Herzegovina;

o = new founding; **+** = data from literature

32. *Agathidium (s.str.) dentatum dentatum* Mulsant & Rey, 1861

A central European species (ANGELINI, 1995: 458). ANGELINI (1988b: 337): mentions it from Slovenia: Julijske Alpi-Mts. Nanos, and then he adds Slovenia: Bohinjsko jezero, Julijske Alpi- Mts. Nanos, Pokljuka (ANGELINI, 1995: 406)

We have not found this species in the material examined.

As a result of this study 32 species of Agathidiini belonging to 4 genera are recorded from the territory of former Yugoslavia. Their distributions are presented in a table (Tab. 1) and 19 maps.

Hitherto, some of the area had not been thoroughly explored, efforts were made to rectify this during this study. This resulted in finding species newly recorded for: Bosnia - 2 species, Herzegovina - 2 species, Vojvodina - 4 species, Montenegro - 6 species, Macedonia - 7 species and Serbia - 12 species.

Two species new to the fauna of former Yugoslavia are collected: *Liiodopria serricornis* (Montenegro) and *Agathidium* aff. *shalbergi* (Macedonia).

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РАСПРОСТРАЊЕЊЕ ВРСТА ТРИБУСА AGATHIDIINI НА ПРОСТОРУ ПРЕТХОДНЕ ЈУГОСЛАВИЈЕ (COLEOPTERA, LEIODIDAE)

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И з в о д

У раду је дат преглед свих до сада утврђених врста трибуса Agathidiini са територије претходне Југославије. За рад је коришћен материјал који су сакупили аутори, који је уступљен од колега из Земуна, Београда, Крагујевца и Новог Сада, као и из збирки господина J. Cootera (Енглеска), преминулог Проф. Др. G. Nonveillera и Националног музеја у Будимпешти.

На наведеној територији утврђене су 32 врсте које спадају у четири рода. За сваку од утврђених врста дат је преглед општег распрострањења, затим су изнета расположива обавештења из литературе о налазима ове врсте на проучаваној територији, као и подаци о свим примерцима дотичне врсте који су проучени из горе наведених извора. Њихово распрострањење је приказано табеларно, као и на деветнаест карата.

Укупно је утврђено по две нове врсте за фауну Босне и Херцеговине, четири за Војводину, дванаест за Србију, шест за Црну Гору и седам нових врста за фауну Македоније.

За простор претходне Југославије по први пут се наводе две врсте: *Liiodopria serricornis* (Црна Гора) и *Agathidium* aff. *shalbergi* (Македонија).

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