

NEW AND LITTLE KNOWN EXENTERINI (HYMENOPTERA: ICHNEUMONIDAE: TRYPHONINAE) FROM BULGARIA AND SOME ADJACENT REGIONS

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Abstract

Faunistic data of 53 Exenterini species from Bulgaria and some adjacent regions are reported. 29 species are new records for Bulgarian fauna, 3 for fauna of Montenegro, 3 for fauna of Greece and 1 for fauna of Iran. Zoogeographical characterization of all listed species is given. With this study the number of Exenterini species occurring in Bulgaria is increased from 32 to 61.

KEY WORDS: Exenterini, Ichneumonidae, Hymenoptera, faunistic, zoogeography, Bulgaria.

Introduction

The Exenterini species are koinobiont ectoparasitoids of Diprionidae, Cimbicidae and Tenthredinidae (Hymenoptera) larva (as an exception also of Argidae and Pamphiliidae), laying eggs attached to the host larva by the variously modified egg stalk (KASPARYAN, 1990). The egg hatches when the larva has made its cocoon (TOWNES, 1969). Palearctic species were revised and keyed by KASPARYAN (1981, 1990). Bulgarian Exenterini fauna has not been studied enough. In previous papers of mine (KOLAROV, 1979, 1980, 1984, 1987, 1990, 1994) and others 32 species were reported from Bulgaria. In the present paper faunistic data for 53 Exenterini species are given. 29 species, marked by an asterisk (*), are new records for Bulgarian fauna, 3 for fauna of Montenegro, 3 for fauna of Greece and 1 for fauna of Iran. For the other species new localities are added. With this study, the number of the Exenterini species occurring in Bulgaria is increased from 32 to 61; in Greece from 3 to 6 (KOLAROV, 2007); in Iran from 1 to 2 (KOLAROV & GHAHARI, 2005, 2006). In Montenegro

until now the species of the tribe were unknown (KOLAROV, 2008). A short zoogeographical characterization of the species is proposed.

Material and Methods

Material was collected by sweeping with hand net and Malaise traps. The stuffing and taxonomical identification of collected material were carried out in the University of Plovdiv, Bulgaria. Generally the taxonomical works of KASPARYAN (1981, 1990) were used. The distribution data are taken mainly from KASPARYAN (1990) and Yu *et al.* (2005).

Results and Discussion

List of the species

Acrotomus lucidulus (Gravenhorst, 1829)

Material: BULGARIA – Vitosha, Bosnek, 940 m a.s.l., 25.07.1999, 1♀; 4.08.1999, 1♂; Pernik, 14.06.1987, 2♂; Strandja Mt., Vitanovo, 17.07.2000, 1♂; 19.09.1999, 1♂; Zemen gorge, 23.10.1999, 1♂; Trubatch, Razgrad heights, 3-18.07.1999, 1♀; 8-18.08.1999, 1♂ 1♀; Shumen, 15.07.1987, 1♂; Melnik, 20.06.1985, 1♂; Stara planina Mt., Maglish, 28.07.1995, 1♀; Kavarna, 2.06.1988, 1♂.

Distribution: Transpalearctic species.

Acrotomus succinctus (Gravenhorst, 1829)

Material: *MONTENEGRO - Crna Poda, 20.09.1991, 1♀. GREECE – Olympus, Prionia, 1100 m a.s.l., 26.08.1993, 1♂; Stavros, 24.06.1994, 1♂. *IRAN – Tehran, Karaj, June 2006, 1♀. BULGARIA – Vitosha, Ribni dol, 1240 m a.s.l., 9-16.05.2000, 1♂; 31.07-18-08.2000, 1♂; 14-26.09.2000, 3♂ 1♀; 23.07.2000, 3♂ 3♀; 26.05.2000, 3♂; Bosnek, 940 m a.s.l., 8.05.1999, 1♂; 4.08.1999, 1♂; 15.06.1999, 1♀.

Distribution: Holarctic and Oriental region.

Cteniscus (Cteniscus) maculiventris boreoalpinus (Kerrich, 1952)

Material: *BULGARIA – Rhodopi Mt., Pamporovo, 1600 m a.s.l., 20.08.1979, 1♂.

Distribution: Transpalearctic species.

Cteniscus (C.) nigrifrons (Thomson, 1883)

Material: *BULGARIA – Rhodopi Mt., hut Byala Cerkva, 1600 m a.s.l., 1♂ 1♀.

Distribution: Palearctic region.

Cteniscus (C.) pedatorius (Panzer, 1809)

Material: *BULGARIA – Vitosha Mt., Kopitoto, 1350 m a.s.l., 2.07.1982, 1♂ 1♀.

Distribution: Sibero-european species.

Cteniscus (C.) scalaris (Gravenhorst, 1829)

Material: *BULGARIA – Rila Mt., Borovets, 1600 m a.s.l., 21.07.1984, 2♀.

Distribution: Transpalearctic species.

Cycasis rubiginosa (Gravenhorst, 1829)

Material: BULGARIA - Rhodopi Mt., Madjarovo, 600 m a.s.l., 8.05.2000, 3♂ 3♀; 24.05.2000, 2♀; Kormisosh, 600 m a.s.l., 4.06.1991, 1♂; Stara planina Mt., peak Stoletov, 1500 m a.s.l., 7.06.1982, 1♂ 2♀; hut Tsumerna, 8.07.1992, 2♀; Vitosha Mt., hut Aleko, 1800 m a.s.l., 14.06.1987, 1♀; Strandja, Golyamo Krushevo, 25.04.1989, 1♂ 1♀; Trubatch, Razgradski heights, 3.06.1999, 1♀.

Distribution: Transpalearctic species.

Eridolius alacer (Gravenhorst, 1829)

Material: *BULGARIA – Rhodopi Mt., nut Studenets, 1200 m a.s.l., 9.09.1998, 1♀.

Distribution: Sibero-european species.

Eridolius aurifluus (Haliday, 1839)

Material: *BULGARIA – Stara planina Mt., peak Stoletov, 1500 m a.s.l., 27.08.1984, 1♂.

Distribution: Transpalearctic species.

Eridolius basalis (Stephens, 1835)

Material: BULGARIA – Rila Mt., hut Maljovitsa, 1900 m a.s.l., 22.07.1982, 1♂; Stara planina Mt., hut Vejen, 4.08.1986, 1♀; Aglikina polyana, 8.07.1992, 1♀; Beklemeto, 1500 m a.s.l., 10.08.1986, 1♂; peak Stoletov, 1500 m a.s.l., 7.06.1982, 1♂; 13.06.1981, 1♂; 11.07.1982, 1♀; Ledenika, 17.06.1982, 1♂; hut Tsumerna, 8.07.1982, 1♀; Berkovitsa, 3.08.1986, 1♂; Vitosha Mt., Zlatnite mostove, 6.07.1992, 2♂; Knyajevo, 14.05.1987, 1♂; Bistritsa, 21.07.1991, 1♂; Rhodopi Mt., Dospat, 1100 m a.s.l., 24.06.1982, 2♂ 3♀; Zagrazhden, 900 m a.s.l., 5.06.1991, 1♀; Madjarovo, 600 m a.s.l., 21.10.2000, 1♂; Tchepelare, 1100 m a.s.l., 14.06.1985, 1♂; Vishteritsa, 24.08.1986, 1♂; Sredna gora Mt., hut Buntovna, 1500 m a.s.l., 26.07.1984, 1♂; hut Bratan, 17.08.1982, 1♂.

Distribution: Transpalearctic species.

Eridolius bimaculatus (Holmgren, 1856)

Material: *BULGARIA – Stara planina Mt., Teteven, 1000 m a.s.l., 1.08.1986, 1♂.

Distribution: Transpalearctic species.

Eridolis brevicornis Kasparyan, 1985

Material: *BULGARIA – Rhodopi Mt., hut Ledenitsata, 1900 m a.s.l., 24.07.1984, 1♂ 1♀.

Distribution: Transpalearctic species.

Eridolius consobrinus (Holmgren, 1857)

Material: *BULGARIA – Rhodopi Mt., hut Vasil Kolarov, 18.07.1987, 1♀.

Distribution: Transpalearctic species.

Eridolius curtisii (Haliday, 1839)

Material: *BULGARIA - Rhodopi Mt., hut Pashalijtsa, 1600 m a.s.l., 22.08.1999, 1♂.

Distribution: Transpalearctic species.

Eridolius dorsator (Thunberg, 1824)

Material: TR – Oltu, Tutmac-Basakli arasi, 1700-2000 m a.s.l., 2.07.2000, 1♂. BULGARIA – Rhodopi Mt., Cerna Mesta, 25.05.1978, 1♂; 25.07.1988, 1♂; Gorna Mesta, 13.06.1986, 1♂; 23.07.1986, 1♂; hut Arda, 400 m a.s.l., 28.08.1976, 1♂ 1♀; Dospat, 1100 m a.s.l., 24.06.1981, 3♂; Smolyan, 1100 m a.s.l., 22.09.1977, 1♂ 1♀; Solishta, 2.09.1994, 1♂; Silen, 27.08.1976, 2♂; Gornoslav, 300 m a.s.l., 14.05.1978, 1♂; Tschairite, 1500 m a.s.l., 14.06.1985, 1♂; hut Zdravets, 1200 m a.s.l., 4.06.1982, 1♀; hut Bezovo, 18.06.1987, 1♂; Pamporovo, 1600 m a.s.l., 22.06.1977, 1♂; Vitosha, hut Aleko, 1800 m a.s.l., 20.06.1995, 1♂; Stara planina Mt., hut Tshumerna, 8.07.1982, 1♂; Shipkovo, 1500 m a.s.l., 12.08.1986, 1♀; Manastirska polyana, 2.08.1981, 1♀; Teteven, 1000 m a.s.l., 1.08.1986, 1♂; Beklemeto, 1500 m a.s.l., 11.08.1986, 1♀.

Distribution: Transpalearctic species.

Eridolius elegans (Stephens, 1835)

Material: BULGARIA – Strandja Mt., Lopushna, 5.05.2000, 1♀.

Distribution: Sweden, United Kingdom, Germany, Netherlands, Poland, Ukraine, late Czechoslovakia, Bulgaria and Armenia.

Eridolius flavomaculatus (Gravenhorst, 1829)

Material: BULGARIA - Vitosha Mt., Zhelezna, 23.08.1992, 1♀.

Distribution: Holarctic region.

Eridolius gibbulus (Holmgren, 1857)

Material: *BULGARIA – Vitosha Mt., Kopitoto, 1350 m a.s.l., 15.07.1997, 1♂ 2♀.

Distribution: Palearctic region.

Eridolius gnathoxanthus (Gravenhorst, 1829)

Material: BULGARIA - Vitosha Mt., Matnitsa, 11.07.1992, 1♀.

Distribution: Holarctic region.

Eridolius hofferi (Gregor, 1937)

Material: *BULGARIA – Rila Mt., Borovets, 1600 m a.s.l., 4.08.1997, 2♂ 1♀.

Distribution: Transpalearctic species.

Eridolius lineiger (Thomson, 1883)

Material: *BULGARIA – Stara planina Mt., hut Kom, 1800 m a.s.l., 23.08.1996, 1♀.

Distribution: Palearctic region.

Eridolius pachysoma (Stephens, 1835)

Material: *BULGARIA – Rhodopi Mt., Jundola, 1500 m a.s.l., 27.07.2005, 1♂ 2♀.

Distribution: Europe and Kazakhstan.

Eridolis pictus (Gravenhorst, 1829)

Material: BULGARIA - Stara planina Mt., hut Tshumerna, 8.07.1992, 1♂.

Distribution: Holarctic species.

Eridolius romani (Kerrich, 1952)

Material: *BULGARIA – Rila Mt., Raduil, 7.09.2007, 1♂.

Distribution: Europe and Azerbaijan.

Eridolius rufilabris (Holmgren, 1857)

Material: BULGARIA - Strandja Mt., Vitanovo, 27.07.200, 1♀.

Distribution: Transpalearctic species.

Eridolius rufonotatus (Holmgren, 1857)

Material: BULGARIA - Strandja Mt., Vitanovo, 7.08.2000, 1♀.

Distribution: Ireland, Sweden, Finland, France, Belgium, Netherlands, Germany, Switzerland, European Russia and Caucasus.

Eridolius unguularis Kasparyan, 1984

Material: *BULGARIA – Pirin Mt., hut Vihren, 7.08.2008, 1♂ 1♀.

Distribution: Holarctic region.

Excavarus apiarius (Gravenhorst, 1829)

Material: *GREECE – Olympus, Prionia, 1100 m a.s.l., 26.08.1993, 1♂.

Distribution: Transpalearctic species.

Exenterus abruptorius (Thunberg, 1824)

Material: BULGARIA - Ognyanovo, Pazardzhik distr., 24.09.1987, 1♂; Plovdiv, 12.05.2000, 2♀, in apple garden.

Distribution: Europe, Caucasus, Korea, Japan, introduced in North America.

Exenterus adspersus Hartig, 1838

Material: *GREECE - Olympus, Prionia, 1100 m a.s.l., 26.08.1993, 1♂ 2♀.

Distribution: Transpalearctic species.

Exenterus amictorius (Panzer, 1801)

Material: *MONTENEGRO - Crna Poda, 20.09.1991, 1 ♀. SERBIA – Kosovo, Dabrovac, 26.08.1985, ex *Diprion pini* L., 1 ♀. BULGARIA - Topolovgrad, 21.03.1993, ex *Diprion pini* L., 9 ♂ 10 ♀.

Distribution: Europe, Caucasus, Kazakhstan, south part of Central Siberia, introduced in North America.

Exenterus confusus Kerrich, 1952

Material: *BULGARIA – Rhodopi Mt., hut Martsiganitsa, 1400 m a.s.l., 17.08.2008, 1 ♀.

Distribution: Palearctic region, introduced in North America.

Exenterus ictericus (Gravenhorst, 1829)

Material: *MONTENEGRO – Durmitor, Borie, 20.09.1991, 5 ♀; Durmitor, Virak, 18.09.1991, 1 ♀; Durmitor, Mali Štuoc, 18-19.09.1991, 4 ♀. TR - Kastamonu Ballidag, 1500-1700 m a.s.l., 29.08.2002, 2 ♀. BULGARIA - Rhodopi Mt., Barakli, 21.07.1986, 2 ♀; hut. Martsiganitsa, 1400 m a.s.l., 5.07.1985, 2 ♂; hut Momcil junak, 27.07.1985, 1 ♂; Rozhen, 1600 m a.s.l., 27.07.1985, 2 ♀; hut Ledenitsata, 1900 m a.s.l., 3.09.1994, 1 ♀; hut. Milevi skali, 27.07.1986, 2 ♀; Rantscha, 25.07.1986, 1 ♂ 1 ♀; Stara planina Mt., hut Dermenka, 1500 m a.s.l., 9.08.1986, 3 ♂ 2 ♀; Beklemeto, 1500 m a.s.l., 20.07.1980, 1 ♀; 5.08.1997, 2 ♂ 2 ♀; hut Echo, 7.08.1986, 1 ♂ 2 ♀; hut Manastirska polyana, 2.08.1986, 1 ♀; hut Kom, 1800 m a.s.l., 20.08.1987, 2 ♀; Vitosha Mt., 1600 m a.s.l., 6.08.1988, 1 ♀.

Distribution: Europeo-caucasian species.

Exenterus oriolus Hartig, 1838

Material: SERBIA - Raška, 15-16.04.1963, 2 ♂ 2 ♀.

Distribution: Middle, South- and Eastern Europe and Western Siberia.

Exenterus simplex Thomson, 1883

Material: *BULGARIA – Rhodopi Mt., Pamporovo, 1600 m a.s.l., 12.08.1999, 1 ♀.

Distribution: Sweden, Belgium, Poland, Austria, Latvia and Lithuania.

Exenterus tricolor Roman, 1913

Material: *BULGARIA – Rila Mt., Borovets, 1600 m a.s.l., 27.07.1997, 2 ♂ 2 ♀.

Distribution: Palearctic region, introduced into North America.

Exenterus vellicanus Cushman, 1940

Material: *BULGARIA – Rhodopi Mt., Smolyan, 1100 m a.s.l., 1 ♀.

Distribution: Germany, Austria, Poland, late Czechoslovakia and Belarus, introduced into North America.

Exyston albicinctus (Gravenhorst, 1820)

Material: *BULGARIA – Shabla, 6.6.2006, 2 ♂.

Distribution: Europe and Kazakhstan.

Exyston calcaratus Thomson, 1883

Material: *BULGARIA – Vitosha Mt., Kopitoto, 1350 m a.s.l., 2.06.1998, 1♀.

Distribution: Transpalearctic species.

Exyston clementi (Kerrich, 1952)

Material: *BULGARIA – Rhodopi Mt., hut Martsiganitsa, 1400 m a.s.l., 29.07.2005, 1♂.

Distribution: Alps, North Mongolia and South Eastern Siberia.

Exyston genalis Thomson, 1883

Material: BULGARIA - Stara planina Mt., hut Krastec, 9.07.1982, 1♀; Rhodopi Mt., Gospodinovo, 24.07.1986, 1♀; Selishte, 1100 m a.s.l., 25.07.1986, 1♀; Atoluka, 27.07.1989, 1♀; peak Malka Sjutka, 10.08.1978, 1♂ 1♀; Dospat, 24.06.1981, 1♀; hut Studen kladenets, 13.06.1987, 1♂; hut Zdravets, 1200 m a.s.l., 21.06.1978, 1♂; Galabovo, 700 m a.s.l., 6.06.1982, 1♂; Rila Mt., Borovets, 1600 m a.s.l., 21.07.1982, 2♂ 5♀; hut Maljovitsa, 1900 m a.s.l., 22.07.1982, 2♂.

Distribution: Palearctic region.

Exyston montanus Kerrich, 1975

Material: *BULGARIA – Rila Mt., Jasterbets, 2300 m a.s.l., 18.07.2004, 1♂ 1♀.

Distribution: Switzerland, Austria, Azerbaijan, Turkey, Kazakhstan, Kirgizstan, Uzbekistan and Tajikistan.

Exyston sponsorius (Fabricius, 1781)

Material: BULGARIA – Rhodopi Mt., Tschairite, 1500 m a.s.l., 14.06.1985, 1♂ 8♀; Erqupria-Mezargidik, 1800 m a.s.l., 21.06.1977, 5♂; Laki, 1000 m a.s.l., 5.06.1978, 2♀; hut Pashalijtsa, 1600 m a.s.l., 2.07.1978, 1♂; 12.07.1980, 1♂; hut Tschudnite mostove, 1600 m a.s.l., 16.07.1980, 2♀; Lilkovo, 1200 m a.s.l., 18.06.1978, 2♂; Hvoina, 600 m a.s.l., 8.06.1981, 1♀; Pamporovo, 1600 m a.s.l., 22.06.1977, 1♂; Vitosha Mt., hut Aleko, 1800 m a.s.l., 14.06.1987, 1♀; Koprivstitsa, 1000 m a.s.l., 10.07.1985, 2♀.

Distribution: Transpalearctic species.

Exyston subnitidus (Gravenhorst, 1829)

Material: BULGARIA – Trubatch, Razgrad heights, 24.05.1999, 1♀; Rhodopi Mt., Tankovo vill., 400 m a.s.l., 14.04.1977, 1♀;

Distribution: Europe, Caucasus and Turkey.

Kristotomus laetus laetus (Gravenhorst, 1829)

Material: TR – Adana, Osmaniye, 29-30.07.1983, 3♂ 2♀. GREECE – Olympus, Prionia, 7.07.1983, 1♀. BULGARIA – Dospat, 1100 m a.s.l., 24.06.1981, 1♀; Rhodopi Mt., hut Vasil Kolarov, 25.05.1983, 1♂; hut Milevi skali, 27.07.1986, 1♀; Smolyanski ezera, 2.07.1968, 1♂; hut Rhodopski partizanin, 400 m a.s.l., 15.06.1988, 1♂; Dobrostan, 6.07.1985, 2♀; Oreshets, 4.07.1985, 2♂; Stara planina Mt., Teteven, 1000 m a.s.l., 1.08.1986, 1♀; Rila, Raduil, 24.07.1982, 1♂; Novo selo, 9.08.1983, 1♀; Kjustendil, 13.06.1987, 1♂; Sakar Mt., Srem, 23.04.1989, 1♂; Vitosha Mt., Kopitoto, 1350 m a.s.l., 30.06.1982, 1♂.

Distribution: Palearctic region.

Kristotomus laticeps (Gravenhorst, 1829)

Material: BULGARIA - Stara planina Mt., hut Krastets, 9.07.1992, 1♂.

Distribution: Sibero-european species.

Kristotomus ridibundus (Gravenhorst, 1829)

Material: BULGARIA - Stara planina Mt., Aglikina polyana, 8.07.1982, 1♀; Buynovtsi, 9.07.1982, 4♀.

Distribution: Palearctic region and Taiwan.

Orthomiscus uncinatus (Holmgren, 1857)

Material: *BULGARIA – Pirin Mt., Bansko, 29.07.1999, 1♂.

Distribution: Holarctic region.

Smicroplectrus bohemani (Holmgren, 1857)

Material: *BULGARIA – Rhodopi Mt., Devin, 1100 m a.s.l., 16.06.2005, 1♀.

Distribution: Transpalearctic species.

Smicroplectrus bucculatus Kasparyan, 1976

Material: *BULGARIA – Stara planina Mt., Buzludzha, 1500 m a.s.l., 1.08.1999, 1♀.

Distribution: Palearctic region.

Smicroplectrus erosus (Holmgren, 1857)

Material: *GREECE – Olympus, Prionia, 1100 m a.s.l., 26.08.1993, 2♀.

Distribution: Palearctic region.

Smicroplectrus heinrichi Kerrich, 1952

Material: *BULGARIA – Rhodopi Mt., Rozhen, 1500 m a.s.l., 19.07.2001, 1♂.

Distribution: Transpalearctic species.

Smicroplectrus nigricornis Kasparyan, 1976

Material: *BULGARIA – Rila Mt., Prevala, 1300 m a.s.l., 23.06.1999, 1♂.

Distribution: Europe, Caucasus and Kazakhstan.

Zoogeographic characterization

The zoogeographic characterization follows the classification proposed by KASPARYAN (1990) (with minor modification). After investigation of the recent geographical distribution of the species, they can be divided into the following groups:

Holarctic and Oriental ranges have 1 species (1.9%) - This zoogeographical group is represented only by the species *Acrotomus succinctus*.

Holarctic ranges show 5 species (9.43%) - *Eridolius flavomaculatus*, *E. gnathoxanthus*, *E. pictus*, *E. unguularis* and *Orthomiscus uncinatus*.

The most numerous group with Palearctic ranges contains 30 species (56.6%) - *Acrotomus lucidulus*, *Cteniscus maculiventris boreoalpinus*, *C. nigrifrons*, *C. scalaris*, *Cycasis rubiginosa*, *Eridolius aurifluus*, *E. basalis*, *E. bimaculatus*, *E. brevicornis*, *E. consobrinus*, *E. curtisii*, *E. dorsator*, *E. gibbulus*, *E. hofferi*, *E. lineiger*, *E. rufilabris*, *Excavarus apiarius*, *Exenterus abruptorius*, *E. adpersus*, *E. confusus*, *E. tricolor*, *Exyston calcaratus*, *E. genalis*, *E. sponsorius*, *Kristotomus laetus laetus*, *K. ridibundus* (but occurs also in Taiwan), *Smicroplectrus bohemani*, *S. bucculatus*, *S. erosus* and *S. heinrichi*.

Sibero-european ranges have 6 species (11.32%) - *Cteniscus pedatorius*, *Eridolius alacer*, *Exenterus amictorius*, *E. oriolus*, *Exyston clementi* and *Kristotomus laticeps*.

With Western Palearctic ranges there are 4 species (7.55%) - *Eridolius pachysoma*, *Exyston albicinctus*, *E. montanus* and *Smicroplectrus nigricornis*.

The group with European ranges includes 7 species (13.21%) - *Eridolius elegans*, *E. romani*, *E. rufonotatus*, *Exenterus ictericus*, *E. simplex*, *E. vellicanus* and *Exyston subnitidus*.

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НОВЕ И МАЛО ПОЗНАТЕ ВРСТЕ EXENTERINI (HYMENOPTERA: ICHNEUMONIDAE: TRYPHONINAE) ИЗ БУГАРСКЕ И НЕКИХ СУСЕДНИХ ОБЛАСТИ

ЈАНКО КОЛАРОВ

Извод

У раду су представљени фаунистички подаци о 53 врсте трибуса Exenterini са подручја Бугарске и суседних земаља. Од наведених врста, 29 је први пут забележено у Бугарској, по три у Црној Гори и Грчкој а једна у Ирану. Дата је и зоогеографска карактеризација свих наведених врста. Према подацима који су дати у овом раду, број врста трибуса Exenterini које су констатоване на територији Бугарске порастао је са 32 на 61.

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