

## The leaf beetles (Coleoptera: Chrysomelidae) of the Pirin Mountain (Bulgaria)

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**Abstract.** The paper reviews the diversity of leaf beetles of Pirin Mts, South Bulgaria. Two-hundred and eighty nine (sub)species are hitherto registered on the territory of the mountain (of them 38 are new records), which counts to approx. 57 % of the Bulgarian chrysomelid fauna. Of them, six species (*Clytra valeriana tetrastigma*, *Luperus graecus*, *Gonioctena pallida reticulata*, *Oreina speciosissima drenskii*, *O. virgulata ljubetensis*, *Aphthona parnassicola*) are Balkan endemics, and one (*Longitarsus behnei*) is local endemic. The dominant zoogeographical complexes are: Siberian (150 taxa), and European (113 taxa).

**Key words:** Leaf beetles, Chrysomelidae, Faunistics. Zoogeography, Pirin Mts, Bulgaria

### Introduction

The Chrysomelidae fauna of the Pirin Mountain has not been a subject of special investigations. Nevertheless, 289 species and subspecies have been established in the mountain by now (38 of them are herein newly recorded as belonging to the fauna of the mountain; asterisked in the faunistic list). That number is sizable considering that it represents 57 % of the taxa known in Bulgaria. It cannot be affirmed, however, that the faunistic composition is finally fixed. Findings of some rather more widespread species are quite possible, especially in the low parts of the mountain. It is also possible some other high mountain relicts, Mideuropean in origin, to be found (particularly representatives of *Oreina* and *Chrysolina*).

The herein-accepted west border of the Pirin Mountain is the Struma Valley, and its east border is the Mesta Valley.

### Material

The faunistic list is composed on the basis of all the published data on the species in the Pirin Mountain. Many specimens from Dr. V. Tomov's and of the author's collections, are also used. An abbreviation, indicative of its zoogeographical belonging, is added to each taxon in the list. Abbreviations: excl. - excluding; incl. - including; m.h. - mountain hostel; p. - place; vill. - village.

## Faunistic list

### Orsodacninae

*Orsodacne cerasi* (Linnaeus, 1758)

Mt. Pirin, Sandanski Valley (VIG, 2002). New material: p. "Popina Laka" above Sandanski, 1250 m, 11.V.1985; m. h. "Yane Sandanski", 1200 m, 2.VI.1972.

Distribution: Europe, Caucasus, Asia Minor, West Siberia. S\EAP\SibE

*Orsodacne humeralis* Latreille, 1804

Mt. Pirin, Sandanski Valley (VIG, 2002). New material: vill. Mesta, 17.V.1973; vill. Gospodintsi, 18.V.1973; vill. Dobrinishte, 17.V.1973. Distribution: France, south part of Mid Europe, Italy, Balkan Peninsula, Asia Minor. E\SbM\HSbM

### Donaciinae

\* *Donacia cinerea* Herbst, 1784

above Sandanski, 10.V.1967, 7.VI.1964. Distribution: from North-East Spain and South France to Altai. S\EAP\SsibE

*Donacia impressa* Paykull, 1799

vill. Delchevo (TOMOV, 1973). Distribution: from the Iberian Peninsula and Ireland to West Siberia and Mongolia. S\EAP\SibE

\* *Donacia marginata* Hope, 1795

Gotse Delchev, 19.VI.1938. Distribution: Europe, Asia Minor, West Siberia, North Africa. S\EAP\SibE

\* *Plateumaris consimilis* (Schrank, 1781)

Bansko, 9.VI.1987. Distribution: from West Europe to Japan. S\EAP\TrPal

*Plateumaris sericea* (Linnaeus, 1758)

vill. Dobrinishte, 1000 m; p. "Popina Laka" above Sandanski, 1300 m (WARCHALOWSKI, 1974), Begovitsa basin, 1900-2000 m (TOMOV, 1979). New material: vill. Lilyanovo, 9.V.1985. Distribution: Europe, Caucasus, Asia Minor, Transcaspia, Siberia, Japan. S\EAP\TrPal

### Criocerinae

*Lema cyanella* (Linnaeus, 1758)

above Sandanski (TOMOV, 1970c). Distribution: from Spain and the British Isles to Korea. S\EAP\TrPal

*Oulema gallaeciana* (Heyden, 1870)

p. "Popina Laka" above Sandanski, 1400 m (WARCHALOWSKI, 1974 - *Lema lichenis*). New material: Banderitsa, 7.VI.1938; Melnik, 10.VI.1987; Bansko, 10.VI.1987. Distribution: western, northern and central parts of Europe, the whole Danube basin, European Russia, West Siberia. S\EAP\SibE

*Oulema melanopus* (Linnaeus, 1758)

Sandanski - vill. Lilyanovo, 250-500 m (TOMOV, 1979). New material: Bansko, 1200 m, 19.VI.1972; Melnik, 13.V.1981. Distribution: from Ireland, South Norway and Morocco to the Near East, West and Middle Siberia, Mongolia. S\EAP\SibE

### Clytrinae

*Clytra atraphaxidis* (Pallas, 1773)

Pirin Mt. (ROUBAL, 1931), Melnik (WARCZHALOWSKI, 1974). Distribution: South and South-East Europe, Corsica, Sardinia, Caucasus, Asia Minor, West Iran, Kazakhstan, Middle Asia, Mongolia, Korea. S\EAP\TrPal

*Clytra laeviuscula* Ratzeburg, 1837

Melnik (WARCZHALOWSKI, 1974). Distribution: West, Mid, South and South-East Europe, Caucasus, Asia Minor, Middle Asia, Altai range. S\EAP\SibE

*Clytra novempunctata* Olivier, 1808

Melnik (WARCZHALOWSKI, 1974), m. h. "Yane Sandanski" above Sandanski; vill. Kremen; vill. Lopovo; Rhozenski monastery above Melnik (VIG, 2002). New material: vill. Vlahi, 20.VI.1908. Distribution: Balkan Peninsula, Romania, South Ukraine, Daghestan, Transcaucasus, Asia Minor, North-West Iran, Iraq, Turkmenistan; Sicily. SWAs\SbIn

*Clytra quadripunctata* (Linnaeus, 1758)

Melnik (WARCZHALOWSKI, 1974), Banderitsa Valley, 1700-1900 m (TOMOV, 1979), m. h. "Yane Sandanski" above Sandanski (VIG, 2002). New material: Pirin Mountain, 2500 m, 20.VII.1984; Bansko, 1200 m, 19.VI.1972. Distribution: from North Spain and Ireland to Middle Asia and Mongolia. S\EAP\SibE

\* *Clytra valeriana tetrastigma* Schmidt, 1841

Melnik, 20.VI.1986. Distribution: Greece, Bulgaria, Serbia, Macedonia. End\BnEnd

\* *Coptocephala gebleri* Gebler, 1814

Gotse Delchev, 20.VII.1964; Melnik, 6.VIII.1984, 17.VIII.1982; vill. Lilyanovo, 14.VII.1979. Distribution: Balkan Peninsula, Transcaucasus, Asia Minor, Kazakhstan, Kirghizstan, southern Siberia, Altai. S\EAP\SibE

\* *Coptocephala rubicunda* (Laichaerting, 1781)

Gotse Delchev, 20.VII.1964; m. h. "Banderitsa", 1800 m, 16.VII.1975. Distribution: Mid and East Europe; France and the Pyrenees. E\ME

\* *Coptocephala unifasciata* (Scopoli, 1763)

Gotse Delchev, 20.VII.1964; Melnik, 14.VII.1972, 7.VIII.1984. Distribution: from Spain and Belgium to the Middle East, Kazakhstan, Middle Asia, Mongolia and Baikal area. S\EAP\SibE

*Labidostomis cyanicornis* (Germar, 1822)

vill. Mesta (TOMOV, 1970a). New material: Gotse Delchev, 11.V.1968; Bansko, 20.V.1981. Distribution: southern part of Mid Europe, Romania, Ukraine, Volga basin, Kazakhstan. E\ME

*Labidostomis humeralis* (Schneider, 1792)

m. h. "Yane Sandanski" above Sandanski, 1250 m (TOMOV, 1970a). Distribution: Mid, South and East Europe, Asia Minor. E\ME

*Labidostomis longimana* (Linnaeus, 1761)

Sandanski > vill. Lilyanovo, 250-500 m; southeast slopes of Vihren peak, 2100-2350 m (TOMOV, 1979), above Razlog; Rozhenski monastery above Melnik (VIG, 2002). New material: Bansko, 15.VII.1985; Melnik, 4.VIII.1984; vill. Dobrinishte, 17.VII.1965; vill. Vlahi, VII.1932. Distribution: Europe, Caucasus, Asia Minor, Siberia, Mongolia. S\EAP\SibE

\* *Labidostomis oertzeni* Weise, 1889

Melnik, 15.V.1981, 1.VI.1988. Distribution: Bulgaria, Greece, North-West Turkey. E\SbM\ESbM

*Labidostomis pallidipennis* (Gebler, 1830)

Melnik (WARCZHALOWSKI, 1974). New material: vill. Delchevo, 22.VI.1969.

Distribution: Mid, East and South Europe, Caucasus, Asia Minor, Kazakhstan, Siberia, China. S\EA P\SibE

*Labidostomis propinqua* (Faldermann, 1837)

m. h. "Yane Sandanski" above Sandanski, 1250 m (TOMOV & GRUEV, 1965 - *Labidostomis beckeri*).

New material: Banderitsa, 14.VI.1938. Distribution: Bulgaria, South Romania, Greece, Caucasus, Asia Minor. E\SbM\ESbM

*Lachmaia sexpunctata* (Scopoli, 1763)

m. h. "Yane Sandanski" above Sandanski; vill. Kremen; vill. Lopovo (VIG, 2002). Distribution: North-East France (Moselle basin), South Germany, Danube basin, Romania, Ukraine, Balkan Peninsula, Asia Minor. E\SbM\HSbM

*Macrolenes dentipes* (Olivier, 1808)

Pirin Mt. (ROUBAL, 1931 - *Miopristis dentipes*), Melnik (WARCZHALOWSKI, 1974 - *Miopristis dentipes*), Sandanski > vill. Lilyanovo, 650-700 m (TOMOV, 1970b - *Miopristis dentipes*). Distribution: South Europe, Asia Minor, North Africa. M\HM

\* *Smaragdina affinis* (Illiger, 1794)

m. h. "Yane Sandanski" above Sandanski, 3.V.1964. Distribution: England, France, Italy, Mid Europe, Bulgaria, Romania, South Ukraine, Finland. E\ME

*Smaragdina aurita* (Linnaeus, 1767)

m. h. "Yane Sandanski" above Sandanski (VIG, 2002). New material: Melnik, 30.IV.1990. Distribution: Pyrenees, West France, Italy, Mid Europe, Caucasian countries, Asia Minor. E\ME

*Smaragdina concolor hypocrita* (Lacordaire, 1848)

Melnik (WARCZHALOWSKI, 1974 - *Gynandrophthalma hypocrita*). Distribution: Bulgaria, Romania, Asia Minor. E\SbM\ESbM

\* *Smaragdina flavicollis* (Charpentier, 1825)

Bansko, 14.VI.1938; Banderitsa, 14.VI.1938. Distribution: from France and North Italy to Ukraine and North Turkey; Lithuania, Finland. E\ME

\* *Smaragdina graeca* (Lefevre, 1872)

vill. Rozhen, 15.V.1985. Distribution: southern parts of the Balkan Peninsula. E\SbM\ESbM

\* *Smaragdina limbata* (Steven, 1806)

Melnik, 27.IV.1970. Distribution: Balkan Peninsula, Caucasian countries, Asia Minor, the Middle East, North Iran. SWAs\SbIn

\* *Smaragdina salicina* (Scopoli, 1763)

Melnik, 12-20.V.1981. Distribution: North, South and East Europe, from North Spain and Denmark to the Volga basin; Caucasian countries. E\ME

\* *Smaragdina tibialis* (Brulle, 1832)

vill. Mesta, 18.V.1973. Distribution: Balkan Peninsula, Asia Minor, Syria. SWAs\AsM

*Smaragdina xanthaspis* (Germar, 1824)

Sandanski > vill. Lilyanovo, 300-350 m (TOMOV, 1979), Rozhenski monastery above Melnik (VIG, 2002). New material: Pirin Mountain, 1400 m, 20.VII.1984; Gotse Delchev, 3.VII.1961; Bansko, 30.VI.1969, 9.VII.1976; Melnik, 23.VI.1969, 28.VI.1982, 9.VII.1976; vill. Vlahi, VII.1932; vill. Delchevo, 22.VI.1969;

Banderitsa, 14.VI.1938. Distribution: North Italy, northern part of the Balkan Peninsula, the Danube basin, South Ukraine, Asia Minor. E\SbM\ESbM

\* *Tituboea macropus* (Illiger, 1800)  
Bansko, 8.VI.1984. Distribution: South-East Europe, from Austria and Albania to the Volga basin and the Caucasian countries. E\SbM\ESbM

### **Cryptocephalinae**

*Cryptocephalus apicalis* Gebler, 1830  
vill. Dobrinishte, 1400 m (WARCHALOWSKI, 1974). New material: Banderitsa, 13.VI.1938. Distribution: from Austria to East Siberia. S\EAP\TrPal

*Cryptocephalus aureolus illyricus* Franz, 1949  
Begovitsa Valley, 1700-2000 m (TOMOV, 1979). New material: Bansko, 3.VI.1987, 30.VI.1969; M. h. "Yane Sandanski" above Sandanski, 21.VI.1969; p. "Cherna Voda, VI.1929. Distribution: Austria, Hungary, Romania, Balkan Peninsula, Slovenia. E\SbM\ESbM

\* *Cryptocephalus bicolor* Eschscholtz, 1818  
Bansko, 5.V.1974; Melnik, 5.V.1974; vill. Mesta, 18.V.1973. Distribution: South France, Danube basin, Bulgaria, Crimea, Caucasus countries, North Turkey, North Iran. SWAs\SbIn

\* *Cryptocephalus bilineatus* (Linnaeus, 1767)  
Bansko, 24.VI.1924, 16.VII.1965. Distribution: Europe, Caucasus, Siberia, Korea, Japan. S\EAP\TrPal

*Cryptocephalus bipunctatus* (Linnaeus, 1758)  
Sandanski > vill. Lilyanovo, 250-500 m (TOMOV, 1979), vill. Kremen; Rozhenski monastery above Melnik (VIG, 2002). New material: Bansko, 1200 m, 9.VI.1988, 19.VI.1972; Melnik, 9.V.1988, 12.V.1981, 23.V.1970; Banderitsa, 13.VI.1938. Distribution: widely distributed from Portugal and Ireland to Korea; North Africa. S\EAP\HPal

\* *Cryptocephalus chrysopus* Gmelin, 1788  
Gotse Delchev, 5.V.1983; Melnik, 9.V.1985; vill. Mesta, 18.V.1973. Distribution: Mid Europe; South France, North Italy, Bulgaria, Crimea. E\ME

*Cryptocephalus connexus* Olivier, 1807  
Sandanski > vill. Lilyanovo, 250-500 m (TOMOV, 1979). New material: Gotse Delchev, 9.VII.1972; Bansko, 16.VII.1965, 20. VII. 1984; Melnik, 25.VII.1956, 7.VIII.1984. Distribution: South and East Europe, Caucasus, Asia Minor, Kazakhstan, Turkmenistan. SWAs\SbIn\InTur

*Cryptocephalus coryli* (Linnaeus, 1758)  
m. h. "Yane Sandanski" above Sandanski (VIG, 2002). New material: p. "Popina Laka" above Sandanski, 10.VI.1975. Distribution: Europe, Kazakhstan, Siberia, Korea. S\EAP\TrPal

*Cryptocephalus duplicatus* Suffrian, 1847  
Melnik (WARCHALOWSKI 1974 - *Cryptocephalus concolor*). Distribution: eastern part of the Balkan Peninsula, Caucasus, Asia Minor. E\SbM\ESbM

*Cryptocephalus elegantulus* Gravenhorst, 1807  
vill. Dobrinishte, 1300 m (WARCHALOWSKI, 1974), Rozhenski monastery above Melnik (VIG, 2002). New material: Bansko, 15.V.1985, 19.VI.1972, 7.VII.1987; Melnik, 11.V.1967, 23.V.1969, 23.VI.1970. Distribution: Europe, Asia Minor, Kazakhstan, Middle Asia, Siberia, Mongolia, Korea. S\EAP\TrPal

*Cryptocephalus exiguus* Schneider, 1792  
vill. Rozhen (WARCZHALOWSKI, 1974). Distribution: Europe, Asia Minor, West Siberia, Prebaikal area. S\EAP\SibE

*Cryptocephalus flavipes* Fabricius, 1781  
Rozhenski monastery above Melnik (VIG, 2002). New material: Gotse Delchev, 5.V.1983; Bansko, 5.VI.1987; Melnik, 11.V.1967, 22.V.1984, 23.V.1970, 5.VI.1987, 23.VI.1969; vill. Mesta, 18.V.1973; vill. Lilyanovo, 10.V.1968; p. "Popina Laka" above Sandanski, 11.V.1985. Distribution: Europe, Caucasus, Asia Minor, Middle Asia, Siberia. S\EAP\SibE

\* *Cryptocephalus frenatus* Laicharting, 1781  
Bansko, 22.VII.1971. Distribution: West France, Germany, Poland, Danube and Dnester basins. E\ME

*Cryptocephalus hypochoeridis* (Linnaeus, 1758)  
p. "Popina Laka" above Sandanski, 1400-1600 m (WARCZHALOWSKI, 1974), Begovitsa Valley, 1400-1600 m (TOMOV, 1979). New material: Gotse Delchev, 9.VII.1972; Bansko, 30.VI.1969, 12.VII.1978; Melnik, 12.VII.1987, 6.VIII.1984; m. h. "Yane Sandanski" above Sandanski, 21.VI.1969. Distribution: Europe, Asia Minor, South Siberia. S\EAP\SibE

\* *Cryptocephalus imperialis* Laicharting, 1781  
Melnik, 5.VI.1987. Distribution: North Spain, France, South Germany, Danube basin, Balkan Peninsula, Ukraine, Asia Minor. E\ME

\* *Cryptocephalus janthinus* Germar, 1824  
Bansko, 30.VI.1969; Melnik, 23.V.1969, 1.VI.1968; vill. Delchevo, 22.VI.1969. Distribution: Mid, South and South-East Europe, Asia Minor, Iran, Kazakhstan, Siberia. S\EAP\SibE

*Cryptocephalus labiatus* (Linnaeus, 1761)  
Sandanski > vill. Lilyanovo, 400-450 m (TOMOV, 1979). New material: Gotse Delchev, 11.V.1968; Bansko, 16.VIII.1981; Melnik, 16.VIII.1981. Distribution: Europe, Asia Minor, Siberia. S\EAP\SibE

*Cryptocephalus macellus* Suffrian, 1860  
vill. Mesta (TOMOV, 1971). Distribution: Mid and South Europe, the Black Sea area (?Tunisia). E\ME

*Cryptocephalus marginatus* Fabricius, 1781  
Melnik (WARCZHALOWSKI, 1974). Distribution: France, Netherlands, North Italy, Germany, South Poland, Danube basin, Romania. E\ME

*Cryptocephalus moraei* (Linnaeus, 1758)  
Sandanski > vill. Lilyanovo, 250-500 m; Banderitsa basin, 2000-2100 m (TOMOV, 1979), m. h. "Yane Sandanski" above Sandanski; above Razlog; Rozhenski monastery above Melnik (VIG, 2002). New material: Gotse Delchev, 3.VII.1961; Bansko, 24.VI.1968, 31.VII.1988; Melnik, 15.V.1981, 23.VI.1969, 31.VII.1988, 4.VIII.1984; vill. Vlaha, VII.1934; vill. Dobrinishte, 17.VII.1965; vill. Mesta, 11.V.1968. Distribution: Europe (excl. the northern part of Scandinavia). E\ME

\* *Cryptocephalus nitidus* (Linnaeus, 1758)  
p. "Popina Laka" above Sandanski, 11.V.1985. Distribution: Europe, South Siberia. S\EAP\SibE

*Cryptocephalus ocellatus* Drapiez, 1819  
Melnik (WARCZHALOWSKI, 1974), Sandanski > vill. Lilyanovo, 250-500 m (TOMOV, 1979). New material: Gotse Delchev, 11.V.1968; Bansko, 24.VI.1968, 30.VII.1969, 17.VII.1965; vill. Dobrinishte, 17.VII.1965; vill. Lilyanovo, 10.V.1968, 22.VII.1971. Distribution: Europe, Asia Minor, Iran, Kazakhstan, West Siberia. S\EAP\SibE

*Cryptocephalus ochroleucus* Stephens, 1834  
Melnik (GRUEV & TOMOV, 1998). Distribution: Mid and South Europe, Balkan Peninsula, North Africa. E\ME

*Cryptocephalus octacosmos* Bedel, 1891  
Sandanski > vill. Lilyanovo, 250-500 m (TOMOV, 1979). New material: Gotse Delchev, 9.VII.1972; Melnik, 20.VII.1983; vill. Delchevo, 22.VI.1969. Distribution: Mid, South and East Europe, Middle Asia, West Siberia. S\EAP\SibE

*Cryptocephalus octomaculatus* Rossi, 1790  
Sandanski > vill. Lilyanovo, 250-500 m (TOMOV, 1979).  
Distribution: Mid and South Europe, West Siberia. S\EAP\SibE

*Cryptocephalus octopunctatus* (Scopoli, 1763)  
vill. Krema (VIG, 2002). New material: Bansko, 3.VI.1987; vill. Dobrinishte, 17.V.1973. Distribution: Europe, Kazakhstan, West Siberia. S\EAP\SibE

*Cryptocephalus parvulus* Mueller, 1766  
p. "Popina Laka" above Sandanski, 1300 m (WARCZHALOWSKI, 1974). New material: Bansko, 7.V.1972.  
Distribution: Europe, Kazakhstan, Siberia. S\EAP\SibE

*Cryptocephalus pini* (Linnaeus, 1758)  
Vihren peak, 2100-2350 m (TOMOV & GRUEV, 1973).  
Distribution: Europe (incl. Norway), West Siberia. S\EAP\SibE

\* *Cryptocephalus populi* Suffrian, 1848  
Melnik. Distribution: Mid and South Europe, Caucasus, Kazakhstan. S\EAP\SibE

\* *Cryptocephalus prusias* Suffrian, 1853  
Rozhenski monastery above Melnik, 14.VII.1970. Distribution: eastern part of the Balkan Peninsula, Asiatic Turkey (incl. the east part: Erzurum District), Syria, Jordan. SWAs/SbIn

\* *Cryptocephalus pusillus* Fabricius, 1776  
Melnik, 17.VII.1976. Distribution: almost the whole of Europe. E\ME

*Cryptocephalus pygmaeus vittula* Suffrian, 1848  
above Razlog; vill. Lopovo - *Cryptocephalus pygmaeus* (VIG, 2002). New material: Banderitsa, 9.VII.1977.  
Distribution: mainly in Mid and East Europe; Caucasian countries, Asia Minor. E\ME

*Cryptocephalus quadriguttatus* Richter, 1820  
vill. Dobrinishte, 1300 m (WARCZHALOWSKI, 1974). Distribution: Mid, East and South-East Europe, Caucasus, Kazakhstan, West Siberia. S\EAP\SibE

*Cryptocephalus querceti* Suffrian, 1848  
Melnik (WARCZHALOWSKI, 1974). Distribution: North and Mid Europe, southwards to the Balkan Peninsula. E\ME

\* *Cryptocephalus quinquepunctatus* (Scopoli, 1763)  
Gotse Delchev, 11.V.1968; vill. Mesta, 11.V.1968. Distribution: Mid South and South-East Europe. E\ME

*Cryptocephalus schaefferi* Schrank, 1789  
Melnik (WARCZHALOWSKI, 1974). Distribution: Mid, South and South-East Europe, Caucasus, Kazakhstan, West Siberia. S\EAP\SibE

*Cryptocephalus sericeus* (Linnaeus, 1758)

Sandanski > vill. Lilyanovo, 25-500 m (TOMOV, 1979), m. h. "Yane Sandanski" above Sandanski; vill. Dobrinishte; Vihren peak, 1800 m; Rozhenski monastery above Melnik (VIG, 2002). New material: Gotse Delchev, 3.VII.1961, 20.VII.1964; Bansko, 16.VII.1965, 20.VII.1982; Melnik, 15.V.1981, 23.VI.1969, 16.VII.1982; vill. Vlahi, VI.1934, 14.VII.1961; Banderitsa, 14.VI.1938. Distribution: Europe, Asia Minor, Kazakhstan, Siberia, North-West China. S\EAP\SibE

*Cryptocephalus solivagus* Leonardi et Sassi, 2001

m. h. "Yane Sandanski" above Sandanski, 1200 m (VIG, 2002). Distribution: East Europe, ?Finland, Turkey, Iran, Uzbekistan, Kazakhstan, Siberia, Altai. S\EAP\SibE

*Cryptocephalus strigosus* Germar, 1823

p. "Popina Laka" above Sandanski, 1400 m (WARCHALOWSKI, 1974). New material: Bansko, 1200 m, 19.VI.1972. Distribution: North Italy, Balkan Peninsula, Danube basin. E\SbM\ESbM.

*Cryptocephalus trimaculatus* Rossi, 1790

Melnik (WARCHALOWSKI, 1974), Rozhenski monastery above Melnik (VIG, 2002), Sandanski > vill. Lilyanovo, 400-450 m (TOMOV, 1979). New material: Gotse Delchev, 20.VII.1964. Distribution: southern part of Europe, from South France and Italy to Hungary and the Balkan Peninsula; Asia Minor, Near East. E\SbM\HSbM

\* *Cryptocephalus turcicus* Suffrian, 1847

Melnik, 11.V.1967, 15.V. 1985; vill. Rozhen above Melnik, 30.V.1984. Distribution: South Europe, from France to Bulgaria; Asia Minor. E\SbM\HSbM

*Cryptocephalus violaceus* Laicharting, 1781

Vihren peak, 2400-2500 m (TOMOV, 1979), vill. Kremen; above Razlog; m. h. "Yane Sandanski" above Sandanski, 1200 m (VIG, 2002). New material: Bansko, 1200 m, 10.VI.1987, 12.VI.1972, 30.VI.1969; Melnik, 10.VI.1987; p. "Popina Laka" above Sandanski, 23.VII.1956; m. h. "Banderitsa", 1800 m, 16.VII.1975. Distribution: western, middle and southeastern parts of Europe, from Spain to Ukraine; Asia Minor. E\SbM\HSbM

\* *Pachybrachis hieroglyphicus* (Laicharting, 1781)

Bansko, 24.VI.1968, 30.VI.1969, 16.VII.1965; Melnik, 12.VII.1987; vill. Dobrinishte, 17.VII.1965. Distribution: Europe, Asia Minor, Kazakhstan, Siberia. S\EAP\SibE

*Pachybrachis limbatus* (Menetries, 1836)

Sandanski > vill. Lilyanovo, 250-500 m (TOMOV, 1979). New material: Gotse Delchev, 11.V.1968; Melnik, 11.V.1967, 15.V.1985, 23.VI.1969, 7.VII.1988; vill. Mesta, 1.V.1968. Distribution: Balkan countries, Asia Minor, Syria. E\SbM\ESbM

*Pachybrachis sinuatus* Mulsant, 1859

Melnik (WARCHALOWSKI, 1974). New material: Bansko, 30.VI.1969; vill. Lilyanovo, 9.V.1968, 11.VII.1965; vill. Mesta, 11.V.1968; Vihren peak, 2050 m, 7.V.1987. Distribution: South France, Mid Europe, Balkan Peninsula, Asia Minor. E\ME

*Pachybrachis tessellatus* (Olivier, 1791)

Sandanski > vill. Lilyanovo, 250-500 m (TOMOV, 1979), vill. Dobrinishte (VIG, 2002). New material: Bansko, 5.VI.1985; Melnik, 5.VI.1985, 23.VI.1969; vill. Rozhen, 30.V.1984. Distribution: South and Mid Europe, from North Spain to the Caspian Sea. E\ME

\* *Stylosomus tamarisci* (Herrich-Schaeffer, 1838)

vill. Delchevo, 22.VI.1969. Distribution: Balkan Peninsula, South Ukraine, South Russia. E\SbM\HSbM



### Eumolpinae

*Bromius obscurus* (Linnaeus, 1758)

Bansko (GRUEV, 1992), m. h. "Yane Sandanski" above Sandanski, 1200 m (VIG, 2002). Distribution: Europe, the Urals, Siberia, Kazakhstan, Mid and Central Asia, Mongolia, North China, Japan, the Kurils, North America. S\H

*Eumolpus asclepiadeus* (Pallas, 1776)

Melnik (GRUEV, 1992 - *Chrysochus asclepiadeus*). Distribution: Mid and South Europe, West and Mid Asia, Siberia, Mongolia, North China. S\EAP\SibE

*Pachnephorus pilosus* (Rossi, 1790)

Pirin Mt. (ROUBAL, 1931), Melnik (WARCZHALOWSKI, 1974), Gotse Delchev (GRUEV, 1992). Distribution: Central and South Europe, West and Mid Asia, Siberia, Mongolia, North China. S\EAP\SibE

*Pachnephorus villosus* (Duftschmid, 1825)

Melnik; above Kresna, vill. Delchevo (GRUEV, 1992). Distribution: Southeast Europe, Italy, South France, Caucasus, Turkey, Iran, Syria. E\SbM\HSbM

### Chrysomelinae

*Chrysolina cerealis alternans* (Panzer, 1799)

Gotse Delchev; vill. Mesta (GRUEV, 1992 - *Chrysolina cerealis*). Distribution: Europe (Danube basin; North Balkans). E/SbM/ESbM

*Chrysolina fastuosa* (Scopoli, 1763)

m. h. "Yane Sandanski"; m. h. "Banderitsa", Gotse Delchev (GRUEV, 1992). Distribution: Europe, Caucasus, Asia Minor, Afghanistan, West and Mid Siberia. S\EAP\SibE

*Chrysolina geminata* (Paykull, 1799)

Melnik (WARCZHALOWSKI, 1974 - *Chrysomela geminata*), Melnik; m. h. "Banderitsa" (GRUEV, 1992). Distribution: Europe, Caucasus. E\ME

*Chrysolina gypsophilae* (Kuester, 1845)

Melnik (WARCZHALOWSKI, 1974 - *Chrysomela gypsophilae*), Melnik; vill. Mesta; p. "Popina Laka" above Sandanski (GRUEV, 1992); m. h. "Yane Sandanski" above Sandanski (VIG, 2002). Distribution: Europe, Caucasus, Asia Minor. E\ME

*Chrysolina haemoptera* (Linnaeus, 1758)

Melnik; vill. Rozhen nr. Melnik; p. "Popina Laka" above Sandanski, 1500 m; Mt. Pirin, 2000 m (GRUEV, 1992), vill. Kremen (VIG, 2002). New material: vill. Lilyanovo, 17.VIII.1979. Distribution: Europe, Caucasus, Asia Minor, Iran. E\ME

*Chrysolina herbacea* (Duftschmid, 1825)

Sandanski > vill. Lilyanovo, 250-500 m; p. "Popina Laka" above Sandanski, 1400-1600 m (GRUEV, 1978), Melnik; vill. Rozhen nr. Melnik; m. h. "Banderitsa"; Sinanitsa; vill. Vlaha; Gotse Delchev; Bansko, m. h. "Yane Sandanski" above Sandanski; vill. Lilyanovo; vill. Dobrinishte; Dzhindzhiritsa; Predela-Pass, 1100 m (GRUEV, 1992), Mt. Pirin, 2000 m (GRUEV, 2002b), m. h. "Yane Sandanski" above Sandanski, 1200 m; p. "Popina Laka" above Sandanski (VIG, 2002). Distribution: Europe, Caucasus, Asia Minor, Iran, Afghanistan, Pamir, Altai. S\EAP\SibE

*Chrysolina hyperici* (Forster, 1771)

Melnik (WARCZHALOWSKI, 1974 - *Chrysomela hyperici*), Melnik, vill. Rozhen nr. Melnik; vill. Dobrinishte; vill. Vlahi; m. h. "Banderitsa" (GRUEV, 1992), vill. Kremen (VIG, 2002). Distribution: Europe, Caucasus, Asia Minor, Middle Asia (Uzbekistan), North Africa. E\ME

*Chrysolina limbata* (Fabricius, 1775)

Bansko, 1100 m; Melnik; vill. Baldevo; m. h. "Banderitsa"; p. "Popina Laka" above Sandanski (GRUEV, 1992), m. h. "Yane Sandanski" above Sandanski, 1200 m (VIG, 2002). Distribution: Europe, Caucasus, Kazakhstan, West Siberia, Mongolia. S\EAP\SibE

*Chrysolina marginata* (Linnaeus, 1758)

Melnik (WARCZHALOWSKI, 1974 - *Chrysomela marginat*), Melnik; vill. Rozhen nr. Melnik; vill. Dobrinishte; p. "Popski Preslop"; vill. Mesta (GRUEV, 1992). Distribution: Europe, Caucasus, Asia Minor, Iran, Afghanistan, Kazakhstan, Mid Asia, Siberia (eastwards to Magadan and Khabarovsk), West China, North Africa. S\EAP\TrPal

*Chrysolina oricalcia* (Mueller, 1776)

p. "Popina Laka" above Sandanski, 1500 m (GRUEV, 1992). Distribution: Europe, Asia Minor, Siberia (incl. Maritime Prov.), Mongolia. S\EAP\TrPal

*Chrysolina polita* (Linnaeus, 1758)

Sandanski > vill. Lilyanovo, 250-500 m (GRUEV, 1978), Bansko; Melnik; p. "Popina Laka" above Sandanski, 1200 m; Predela-Pass (GRUEV, 1992), above Kresna (GRUEV, 2002b). Distribution: Europe, West Siberia, Mongolia, Sakhalien. S\EAP\TrPal

*Chrysolina reitteri* (Weise, 1884)

Sandanski > vill. Lilyanovo, 250-500 m ("*Chrysolina lurida*" - GRUEV, 1978). Distribution: Mid, South and East Europe, Caucasus, Asia Minor, Mid Asia, South Siberia. S\EAP\SSibE

*Chrysolina salviae* (Germar, 1824)

Melnik (WARCZHALOWSKI, 1974 - *Crosita salviae*), Melnik (GRUEV, 1992), vill. Lilyanovo; above Kresna (GRUEV, 2002b). Distribution: South Europe northwards to Hungary. E\SbM\HSbM

*Chrysolina staphylaea* (Linnaeus, 1758)

Melnik (GRUEV, 1992). Distribution: Europe, Caucasus, Kazakhstan, whole of Siberia, Mongolia, China, Korea. S\EAP\TrPal

*Chrysolina turca* (Fairmaire, 1865)

Sandanski > vill. Lilyanovo, 400-450 m (GRUEV, 1978). Distribution: Turkey (European and Asiatic), Bulgaria. SWAs\SbIn\AsM

*Chrysolina varians* (Schaller, 1783)

Banderitsa Valley (VIG, 2002). New material: Predela-Pass, 29.V.1993. Distribution: Europe, Asia Minor, Siberia, ?Algeria. S\EAP\SibE

*Chrysolina vernalis ottomana* (Weise, 1906)

above Kresna (GRUEV, 2002b). Distribution: Turkey (European and Asiatic), Balkan Peninsula (Bulgaria, North Greece, Macedonia, Dalmatia, Bosnia-Herzegovina, Montenegro, Albania). SWAs\SbIn\AsM

*Chrysomela populi* Linnaeus, 1758

vill. Vlahi (GRUEV, 1992), Sandanski Valley (VIG, 2002). Distribution: Palearctis. S\EAP\HPal

*Chrysomela saliceti* Suffrian, 1849

p. "Popina laka" above Sandanski, 1300 m (WARCZHALOWSKI, 1974 - *Melasoma saliceti*). Distribution: Europe, Kazakhstan, Iran, Mid Asia, Siberia. S\EAP\TrPal

*Chrysomela tremulae* Fabricius, 1787  
p. "Popina Laka" above Sandanski (WARCZHALOWSKI, 1974 - *Melasoma tremulae*), Bansko, Melnik (GRUEV, 1992), Bistritsa Valley (VIG, 2002). Distribution: Europe, Palaearctic Asia (incl. Japan). S\EAP\TrPal

*Chrysomela vigintipunctata* (Scopoli, 1763)  
Gotse Delchev; Pirinska Bistritsa Valley (GRUEV, 1992). Distribution: Europe, Palaearctic Asia (incl. Japan). S\EAP\TrPal

*Colaphus sophiae* (Schaller, 1783)  
Melnik (GRUEV, 1992 - *Colapbellus sophiae*). Distribution: Europe, Asia Minor. E\ME

*Gastrophysa polygoni* (Linnaeus, 1758)  
Melnik (GRUEV, 1992). Distribution: Europe, Caucasus, Asia Minor, Kazakhstan, Mid Asia, Siberia, Mongolia, China, Korea, North Africa. S\EAP\HPal

*Gastrophysa viridula* (De Geer, 1775)  
m. h. "Banderitsa", 1700 m (GRUEV & TOMOV, 1986). Distribution: Europe, Caucasus, Asia Minor, Kazakhstan, Mongolia, Amurland, Kamchatka. S\EAP\TrPal

*Gonioctena fornicata* (Brueggemann, 1873)  
Melnik; vill. Rozhen nr. Melnik; vill. Mesta (GRUEV, 1992). Known as "Lucerne leaf beetle" (pest). In Bulgaria distributed from the sea coast up to 1200 m or more. Distribution: South Europe, Southeast Europe, southern part of Mid Europe, Asia Minor, Syria. E\SbM\HSbM

*Gonioctena pallida reticulata* (Bechyne, 1947)  
m. h. "Yane Sandanski" above Sandanski (GRUEV & TOMOV, 1986), m. h. "Yane Sandanski" and p. "Popina Laka" above Sandanski (GRUEV, 1990a), Begovitsa Valley (GRUEV, 1992), Mt. Pirin (VIG, 2002). Distribution: mountains of Bosnia-Herzegovina, Bulgaria and Montenegro. End\BnEnd

*Hydrothassa flavocincta* (Brullé, 1832)  
p. "Popina laka" above Sandanski, 1200 m (WARCZHALOWKI, 1974), Melnik (GRUEV & TOMOV 1986). Distribution: Balkan Peninsula, Turkey, South Italy. E\SbM\ESbM

*Hydrothassa glabra* (Herbst, 1783)  
vill. Dobrinishte (GRUEV, 1992). Distribution: Europe, West Siberia. S\EAP\SibE

*Leptinotarsa decemlineata* (Say, 1824)  
Introduced into Europe from America. In Bulgaria distributed from the sea coast up to 2400 m or more, on Solanaceae. Known as "Potato beetle" (pest)

*Oreina speciosissima drenskii* (Gruev, 1974)  
p. "Bayovi dupki" [locus typicus] (GRUEV, 1974 - *Chrysochloa speciosissima drenskii*). Distribution: Mt. Stara planina (Bulgaria, Serbia), Mt. Rila, Mt. Pirin. End\BnEnd

*Oreina virgulata ljubetensis* (Apfelbeck, 1912)  
vill. Dobrinishte; p. "Popina Laka" above Sandanski, 1600 m (WARCZHALOWSKI, 1974 - *Chrysochloa virgulata*), m. h. "Banderitsa"; m. h. "Yane Sandanski" above Sandanski; Predela-Pass (GRUEV, 1990a - *Oreina virgulata*), Bansko; p. "Cherna voda", Bansko (GRUEV, 1992 - *Oreina virgulata*). Distribution: mountains of Macedonia, Serbia, Bulgaria, ?Albania. End\BnEnd

*Phaedon armoraciae* (Linnaeus, 1758)  
Melnik (WARCZHALOWSKI, 1974), Begovitsa Valley (GRUEV, 1978), Valyavishki circus; Prevalski circus; Belemeto-circus; Spano pole-circus; Sinanitsa (GUEORGUIEV, 1988), Tevno ezero-Lake; Prevalski-Lakes (GRUEV, 1992). Distribution: Europe, Caucasus, Kazakhstan, Mid Asia, Siberia. S\EAP\TrPal

*Phaedon cochleariae* (Fabricius, 1792)

above Sandanski; above Kresna (GRUEV, 1969a), Melnik; p. "Popski Preslop" (GRUEV, 1992), p. "Haramibunar" (VIG, 2002). Distribution: Europe, Palaeartic Asia (incl. tundra). S\EAP\TrPal

*Phaedon laevigatus* (Duftschmid, 1825)

Melnik (WARCZHALOWSKI, 1974). Distribution: Mid, South and East Europe. E\ME

*Phaedon pyritosus* (Rossi, 1792)

Pirin Mt. (ROUBAL, 1931), above Sandanski (GRUEV, 1969a), Melnik (WARCZHALOWSKI, 1974). New material: vill. Rozhen, 30.V.1984. Distribution: Europe, Caucasus, Asia Minor, Kazakhstan, Mid Asia, North Africa. S\EAP\SibE

*Phratora laticollis* (Suffrian, 1851)

p. "Popina Laka" above Sandanski, 1400-1600 m (GRUEV, 1978), Melnik; m.h. "Yane Sandanski" above Sandanski (GRUEV, 1992). Distribution: Europe, Palaeartic Asia. S\EAP\TrPal

*Phratora tibialis* (Suffrian, 1851)

Sandanski > vill. Lilyanovo, 25-500 m (GRUEV, 1978), Melnik (GRUEV & TOMOV, 1986), Bansko (GRUEV, 1992). Distribution: Europe, Asia Minor. E\ME

*Phratora vitellinae* (Linnaeus, 1758)

vill. Dobrinishte; Melnik (WARCZHALOWSKI, 1974 - *Phyllodecta vitellinae*), p. "Popina Laka" above Sandanski, 1400-1600 (GRUEV, 1978), Gotse Delchev; Melnik (GRUEV, 1992). Distribution: Europe, Palaeartic Asia (excl. Japan). S\EAP\TrPal

*Plagiodera versicolora* (Laicharting, 1781)

Sandanski > vill. Lilyanovo, 250-500 m (GRUEV, 1978), Melnik; vill. Rozhen nr. Melnik; above Kresna; vill. Dobrinishte (GRUEV, 1992). Distribution: Palaeartcis, India, Taiwan. S\EAP\HPal

*Plagiosterna aenea* (Linnaeus, 1758)

above Kresna (GRUEV, 1992 - *Linacidea aenea*). Distribution: Europe, Palaeartic Asia (incl. Japan). S\EAP\TrPal

*Prasocuris junci* (Brahm, 1790)

vill. Dobrinishte (WARCZHALOWSKI, 1974), Gotse Delchev; Melnik (GRUEV, 1992). Distribution: Europe, Caucasus, North Africa. E\ME

*Timarcha metallica* (Laicharting, 1781)

p. "Popina Laka", above Sandanski, 1500 m (GRUEV, 1992), m. h. "Yane Sandanski" above Sandanski, 1200 m (VIG, 2002). Distribution: mountains of Central and South Europe. E\MEMount

*Timarcha tenebricosa* (Fabricius, 1775)

p. "Popina Laka" above Sandanski; Bansko; Vihren peak, 2400 m (GRUEV, 1992), Melnik (GRUEV, 2002b), Bistritsa Valley; ; m. h. "Yane Sandanski" above Sandanski; Vihren peak, 1800 m (VIG, 2002). Distribution: Mid, South and Southeast Europe, Caucasus. E\ME

## Galerucinae

*Agelastica alni* (Linnaeus, 1758)

Sandanski > vill. Lilyanovo, 250-500 m (TOMOV, 1979). New material: Melnik, 19.V.1939, 27.IV.1970. Distribution: Europe, from Ireland to South Finland and from the Pyrenees to Caucasus; Asia Minor. E\ME

*Calomicrus circumfusus* (Marsham, 1802)  
Melnik (WARCZHALOWSKI, 1974), Sandanski > vill. Lilyanovo (TOMOV, 1979 – *Luperus circumfusus*).  
New material: Bansko, 8.VI.1961; Melnik, 23.V.1970, 27.V.1984, 8.VI.1961, 16.VI.1978, 23.VI.1969; vill. Mesta, 11.V.1968; vill. Rozhen, 15.V.1985. Distribution: Europe. E\ME

*Calomicrus pinicola* (Duftschmid, 1825)  
Bansko, 1000-1200 m (TOMOV & GRUEV, 1973 – *Luperus pinicola*), Begovitsa Valley, 1400-1600 m (TOMOV, 1979 – *Luperus pinicola*), above Razlog (VIG, 2002 – *Luperus pinicola*). New material: Gotse Delchev, 3.VII.1961; p. “Popina Laka” above Sandanski, 1400-1600 m, 17.VII.1971. Distribution: from Catalonia and North France to Bulgaria, Dnieper basin and Finland. E\ME

*Diorhabda elongata* (Brulle, 1832)  
Melnik (WARCZHALOWSKI, 1974), above railway station Pirin (TOMOV, 1969). New material: vill. Delchevo, 22.VI.1969, 7.VII.1968, 27.IX.1970. Distribution: Mediterranean, Caucasus, Asia Minor, Transcaucasus, Middle Asia, Mongolia. S\EAP\SibE

*Galeruca interrupta circumdata* (Duftschmid, 1825)  
vill. Lopovo; Mt. Pirin, Sandanski Valley (VIG, 2002). New material: Melnik, 9.V.1985, 23.VI.1969. Distribution: Danube basin, Balkan Peninsula, Ukraine. E\SbM\ESbM

\* *Galeruca pomonae* (Scopoli, 1763)  
Melnik, 14.VI.1985; vill. Rozhen, 14.VI.1985. Distribution: Europe, Caucasus, Kazakhstan, West Siberia, North India. S\EAP\SibE

\* *Galeruca rufa* Germar, 1824  
Melnik, 9.V.1985, 23.V.1970, 27.V.1984, 23.VI.1969, 6.VIII.1984. Distribution: South France, Italy, Danube basin, Balkan Peninsula, from Ukraine to the basin of lower Volga. E\SbM\HSbM

*Galeruca tanaceti* (Linnaeus, 1758)  
Bistritsa Valley; vill. Lopovo; m. h. “Yane Sandanski” above Sandanski, 1200 m (VIG, 2002). New material: Melnik, 15.V.1981, 2.VI.1984, 23.VI.1969; vill. Vlaha, 4.VII.1947; vill. Rozhen, 14.VI.1985. Distribution: from Ireland and Portugal to Korea. S\EAP\TrPal

*Galerucella calvariensis* (Linnaeus, 1767)  
above Razlog (WARCZHALOWSKI, 1974). Distribution: Europe, Caucasus, Asia Minor, Siberia, Mongolia, North China, Japan. S\EAP\TrPal

\* *Galerucella lineola* (Fabricius, 1781)  
vill. Mesta, 11.V.1968, 18.V.1973; m. h. “Yane Sandanski” above Sandanski, 4.VI.1964. Distribution: from Ireland to Japan. S\EAP\TrPal

\* *Galerucella pusila* (Duftschmid, 1825)  
Gotse Delchev, 11.V.1968; Bansko, 24.VI.1968; Melnik, 12.V.1987; vill. Lilyanovo, 11.V.1985; p. “Popina Laka” above Sandanski, 13.V.1985. Distribution: from Catalonia and the British Isles. To Siberia and Mongolia. S\EAP\SibE

*Lochmaea capreae* (Linnaeus, 1758)  
Melnik (WARCZHALOWSKI, 1974). New material: Gotse Delchev, 11.V.1968; vill. Mesta, 11.V.1968. Distribution: from Spain and Ireland to North Norway and Japan. S\EAP\TrPal

*Luperus cyanipennis* Kuester, 1848  
p. “Popina Laka” ab. Sandanski (WARCZHALOWSKI, 1974 – *Luperus hyperus*; GRUEV & TOMOV, 1975).  
New material: Bansko, Melnik, 11.V.1967, vill. Dobrinishte, 13.V.1973, 17.V.1973. Distribution: France, Italy, Dalmatia, southern part of Mid Europe, Danube basin. E\SbM\HSbM

*Luperus flavipes* (Linnaeus, 1767)  
vill. Dobrinishte, 1300 m (WARCZHALOWSKI, 1974). Distribution: Europe, Caucasus, North-East Kazakhstan, Siberia, Mongolia. S\EAP\SibE

\* *Luperus graecus* Weise, 1886  
m. h. "Yane Sandanski" above Sandanski, 21.VI.1969. Distribution: Balkan Peninsula. End\BnEnd

\* *Luperus viridipennis* Germar, 1824  
Pirin Mountain, 4.VIII.1984. Distribution: the Alps, Carpathians, Balkans (mountains), South Ural, Central Asia. S\EAP\SibE

*Luperus xanthopoda* Schrank, 1781  
p. "Popina Laka" above Sandanski, 1500 m (WARCZHALOWSKI, 1974), Begovitsa Valley (TOMOV, 1979). New material: vill. Lilyanovo, 11.VII.1965; m. h. "Yane Sandanski" above Sandanski, 21.VI.1969. Distribution: from Iberian Peninsula to Central Asia. S\EAP\SibE

*Phyllobrotica adusta* (Creutzer, 1799)  
Sandanski > vill. Lilyanovo, 250-500 m (TOMOV, 1979), vill. Kremen; p. "Popina Laka" above Sandanski (VIG, 2002). New material: Melnik, 15.V.1981, 23.V.1970, 21.VI.1908. Distribution: Mid and South-East Europe. E\ME

*Sermylassa balensis* (Linnaeus, 1767)  
Sandanski > vill. Lilyanovo, 250-500 m (TOMOV, 1979). New material: Bansko, 28.X.1988; vill. Dobrinishte, 17.VI.1965; Banderitsa, 11.VII.1971. Distribution: the great part of Europe; from Kazakhstan and Middle Asia to Altai and Mongolia. S\EAP\SibE

*Xanthogalleruca luteola* (Mueller, 1766)  
Melnik (WARCZHALOWSKI, 1974 - *Galerucella luteola*), Sandanski > vill. Lilyanovo, 250-500 m (TOMOV, 1979 - *Galerucella luteola*), vill. Dobrinishte (VIG, 2002 - *Galerucella luteola*). New material: vill. Lilyanovo, 11.V.1985; p. "Popina Laka" above Sandanski, 1250 m, 13.V.1985. Distribution: Europe, Asia Minor, Caucasus, Middle Asia, Iran, North Africa. SWAs\SbIn\InTur

### **Alticinae**

*Altica carduorum* Guerin-Meneville, 1858  
Melnik (WARCZHALOWSKI, 1974 - *Haltica carduorum*), Melnik; Gotse Delchev (GRUEV, 1992). Distribution: Europe, Caucasus, Turkey, Kazakhstan, Mid Asia, Siberia, Russian Far East. S\EAP\SibE

*Altica impressicollis* Reiche, 1862  
vill. Mesta (GRUEV, 1992). Distribution: Mid and South Europe, Caucasus, Asia Minor, Iran, Syria, Israel. E\ME

*Altica lythri* Aube, 1843  
Melnik (WARCZHALOWSKI, 1974 - *Haltica ampelophaga*). Distribution: Europe, Turkey. E\ME

*Altica oleracea* (Linnaeus, 1758)  
Sandanski > vill. Lilyanovo, 250-500 m (GRUEV, 1978), Melnik; Gotse Delchev; Mt. Pirin, 1600 m; m. h. "Banderitsa" (GRUEV, 1992), Rozhenski monastery above Melnik (VIG, 2002). Distribution: Europe, Palearctic Asia. S\EAP\TrPal

*Altica quercetorum* Foudras, 1860  
Mt. Pirin (GRUEV, 1992). Distribution: Mid and South Europe, Caucasus, Turkey. E\ME

- Altica tamaricis* Schrank, 1785  
Gotse Delchev; Melnik, vill. Delchevo (GRUEV, 1992), above Kresna (GRUEV, 2002b). Distribution: Europe, Palaearctic Asia (excl. Japan). S\EAP\TrPal
- Aphthona abdominalis* (Duftschmid, 1825)  
Melnik, above vill. Hadzhidimovo (GRUEV, 1992). Distribution: Mid and South Europe, Caucasus, Palaearctic Asia (incl. Japan); North Vietnam. S\EAP\TrPal
- Aphthona cyparissiae* (Koch, 1803)  
Sandanski > vill. Lilyanovo, 300-350 m; Banderitsa Valley, 1700-1900 m (GRUEV, 1978), Bansko (GRUEV, 1992). Distribution: Mid and South Europe. E\ME
- Aphthona euphorbiae* (Schrank, 1781)  
m. h. "Banderitsa" (GRUEV, 1992). Distribution: Europe, Palaearctic Asia eastwards to the southwestern Baikal area, North Africa. S\EAP\SibE
- Aphthona flava* Guillebeau, 1895  
Melnik (WARCZHALOWSKI, 1974), Sandanski > vill. Lilyanovo, 300-350 m (GRUEV, 1978), Bansko; Melnik; Gotse Delchev (GRUEV, 1992). Distribution: Central and Southeast Europe westwards to Italy. E\ME
- Aphthona herbigrada* (Curtis, 1837)  
Bansko (GRUEV, 1992). Distribution: Mid and South Europe, North-West Africa. E\ME
- Aphthona lutescens* (Gyllenhal, 1808)  
Bansko (GRUEV, 1992), Melnik; vill. Delchevo (GRUEV, 2002a). Distribution: Europe, Palaearctic Asia eastwards to Transbaikalia (Buryatya), Yemen. S\EAP\SibE
- Aphthona nigriceps* (W. Redtenbacher, 1842)  
Melnik (GRUEV, 1992). Distribution: southern part of Mid Europe, South Europe, Caucasus, Turkey, South Sporades, North-West Africa. E\SbM\HSbM
- Aphthona nigriscutis* Foudras, 1860  
Sandanski > vill. Lilyanovo, 250-500 m (GRUEV, 1978). Distribution: Central and South Europe, Caucasus, Turkey, Iran, West Kazakhstan, West Siberia. S\EAP\SibE
- Aphthona parnassicola* Heikertinger, 1944  
Rozhenski monastery above Melnik (WARCZHALOWSKI, 1974 - *Aphthona gruszkorum*), Melnik (GRUEV & TOMOV, 1975), Melnik (GRUEV, 1992). Distribution: Greece, Macedonia, southern Bulgaria. End/BnEnd
- Aphthona pygmaea* (Kutschera, 1861)  
Melnik; vill. Mesta; m. h. "Banderitsa" (GRUEV, 1992), Bansko, 600 m (GRUEV, 2002a). Distribution: Europe, Caucasus, Asia Minor, Syria, Lebanon, Israel, Yemen, North-East Africa. E\ME
- Aphthona semicyanea* Allard, 1859  
Sandanski > vill. Lilyanovo, 250-500 m (GRUEV, 1978). Distribution: Mid and South Europe, Caucasus, Asia Minor, Transcaspia, Iran, Syria, Israel, Kazakhstan, Mid Asia, West Siberia, Sayan Mts., Altai, Mongolia. S\EAP\SibE
- Aphthona venustula* Kutschera, 1861  
Bansko, 1200 m; vill. Dobrinishte; vill. Mesta; Melnik, m. h. "Yane Sandanski", p. "Popski preslop", Banderitsa (GRUEV, 1992). Distribution: Europe, Caucasus, Asia Minor. E\ME

*Batophila moesica* Heikertinger, 1948  
m. h. "Damyanita"; m. h. "Yane Sandanski" above Sandanski; m. h. "Vihren"; m. h. "Banderitsa";  
Bansko (GRUEV, 1990a). Distribution: mountains of Bulgaria and Romania. E\SEEMount

*Batophila rubi* (Paykull, 1799)  
vill. Dobrinishte (WARCHALOWSKI, 1974), above Sandanski; Bansko (GRUEV, 1992), p. "Popski  
preslop"; m. h. "Vihren", 2100 m (GRUEV, 2002), Mt. Pirin (VIG, 2002). Distribution: Europe, Caucasus,  
West Siberia. S\EAP\SibE

*Chaetocnema arida* Foudras, 1860  
Melnik (GRUEV, 1992). Distribution: Mid, West and South Europe, Caucasus, Turkey, North-West  
Africa. E\ME

\* *Chaetocnema concinna* (Marsham, 1802)  
Bansko, 18. V. 1978. Distribution: Europe, Palaearctic Asia (excl. Japan), North-West Africa. S\EAP\HPal

*Chaetocnema hortensis* (Geoffroy, 1785)  
above vill. Lilyanovo; vil. Dobrinishte; vill. Rozhen above Melnik; Melnik (GRUEV, 1992), Bansko,  
1200 m (GRUEV, 2002b). New material: Rhozhenski monastery, 21.V.1978. Distribution: Europe, Palaearctic  
Asia (excl. Japan), Madeira, Saudi Arabia, North-West Africa, Chad, Sudan. S\EAP\HPal

*Chaetocnema montenegrina* Heikertinger, 1912  
Melnik; vill. Dobrinishte; Bansko; vill. Vlahi; m. h. "Banderitsa" (GRUEV, 1992). New material: Rozhenski  
monastery, 21.V.1978. Distribution: South-East Europe, Asia Minor, Iran, Afghanistan, Mid Asia.  
SWAs\SbIn\InTur

*Chaetocnema picipes* Stephens, 1831  
Bansko (GRUEV, 1992 - *Chaetocnema heikertingeri*). Distribution: Europe, Caucasus, Asia Minor, Iran,  
Kazakhstan, Mid Asia, China, Siberia, Mongolia, Korea. S\EAP\TrPal

*Chaetocnema scheffleri* (Kutschera, 1864)  
Melnik (GRUEV, 1992). New material: Bansko, 18.V.1978. Distribution: southern part of Mid Europe,  
East Europe, Caucasus, Asia Minor, Iran, Iraq, Israel, North-West Africa. E\SbM\HSbM

*Chaetocnema semicoerulea* (Koch, 1803)  
vill. Mesta; Melnik (GRUEV, 1992). New material: Rozhenski monastery, 21.V.1978. Distribution: Mid  
and South Europe, Caucasus, Asia Minor, Kazakhstan, West and Mid Siberia eastwards to Baikal. S\EAP\SibE

*Chaetocnema subcoerulea* (Kutschera, 1864)  
Melnik (BOROWIEC, 1979). Distribution: Europe, Caucasus. E\ME.

*Chaetocnema tibialis* (Illiger, 1807)  
Melnik (WARCHALOWSKI, 1974), Melnik (GRUEV, 1992). New material: Bansko, 18.V.1978.  
Distribution: Europe, Palaearctic Asia eastwards to the Baikal area, North Africa. S\EAP\SibE

*Crepidodera aurata* (Marsham, 1802)  
Gotse Delchev; Melnik; m. h. "Banderitsa", 1500 m (GRUEV, 1992). New material: Bansko, 18.V.1978.  
Distribution: Europe, Palaearctic Asia (excl. Japan), Morocco. S\EAP\HPal

*Crepidodera aurea* (Geoffroy, 1785)  
vill. Rozhen nr. Melnik (GRUEV, 1992). New material: Bansko, 18.V.1978. Distribution: Europe,  
Caucasus, Asia Minor, Cyprus, Iran, Kazakhstan, Mid Asia, West Siberia, Transbaikalia. S\EAP\SibE



*Crepidodera lamina* (Bedel, 1901)  
p. "Popina Laka" above Sandanski, 1600 m (WARCZALOWSKI, 1974), Melnik (GRUEV, 1992), m. h. "Yane Sandanski" above Sandanski, 1200 m (VIG, 2002). Distribution: Europe, Turkey. E\ME

*Crepidodera nigricoxis* (Allard, 1878)  
Melnik; m. h. "Yane Sandanski" above Sandanski (GRUEV, 1975), vill. Rozhen nr. Melnik (GRUEV, 2002b). New material: Sandanska Bistritsa, 13.V.1983. Distribution: South-East Europe, Caucasus. E\SbM\ESbM

*Crepidodera nitidula* (Linnaeus, 1758)  
p. "Popina Laka" above Sandanski (WARCZALOWSKI, 1974). Distribution: Europe, West and Mid Siberia, Sayan Mts. S\EAP\SibE

*Derocrepis rufipes* (Linnaeus, 1758)  
southwestern slopes of Vihren peak, 2400-2500 m (GRUEV, 1978), Bansko; Predela-Pass (GRUEV, 1992). Distribution: Europe, Caucasus, Asia Minor, West and Mid Siberia, Sayan Mts. S\EAP\SibE

*Dibolia carpathica* Weise, 1893  
vill. Mesta; above Sandanski (GRUEV, 1979), m. h. "Banderitsa" (GRUEV & TOMOV, 1986), Bansko; track Banderitsa > Bansko (GRUEV, 1992). Distribution: Mid, East and South-East Europe, Caucasus, Asia Minor, Kazakhstan, Israel. S\EAP\SibE

*Dibolia cryptocephala* (Koch, 1803)  
Banderitsa Valley, 1700-1900 m (MOHR, 1981), Melnik (GRUEV, 1978), Bansko (GRUEV, 1992). Distribution: Mid and East Europe, Caucasus, Kazakhstan, West Siberia. S\EAP\SibE

*Dibolia depressiuscula* (Letzner, 1847)  
Melnik (MOHR, 1981). Distribution: Europe, Palaeartic Asia eastwards incl. Baikal area. S\EAP\SibE

*Dibolia femoralis* Redtenbacher, 1849  
Gotse Delchev, above vill. Gospodintsi (GRUEV, 1971), vill. Dobrinishte (WARCZALOWSKI, 1974). Distribution: Mid and South Europe, Caucasus, Asiatic Turkey, Rhodos. E\ME

*Dibolia occultans* (Koch, 1803)  
Melnik (MOHR, 1981). Distribution: Europe, Caucasus, Asia Minor, North-West Africa. E\ME

*Dibolia timida* (Illiger, 1807)  
Melnik (GRUEV, 1971; MOHR, 1981). Distribution: Mid and South Europe, North-West Africa. E\ME

*Epitrix hirtipennis* (Meisheimer, 1847)  
Gotse Delchev (GRUEV & BECHEV, 2000). Introduced from America. Pest on Tobacco

*Epitrix pubescens* (Koch, 1803)  
Melnik; vill. Rozhen nr. Melnik (GRUEV, 1992). Distribution: Europe, Caucasus, Israel, Asia Minor, Cyprus, Iran, Kazakhstan, Mid Asia, West Siberia. S\EAP\SibE

*Hippuriphila modeeri* (Linnaeus, 1961)  
Melnik; Bansko (GRUEV, 1992), p. "Popina Laka" above Sandanski, 1250 m (GRUEV, 2002b). Distribution: Europe, Caucasus, Asia Minor, all Siberia, Mongolia. S\EAP\TrPal

*Longitarsus aeneicollis* (Faldermann, 1837)  
Sandanski > vill. Lilyanovo, 250-500 m (GRUEV, 1978 - *Longitarsus suturalis*), Melnik; p. "Papaz Chair"; above Sandanski, 800 m (GRUEV, 1992 - *Longitarsus suturalis*). Distribution: Europe, Caucasus, Asia Minor, Iran, Iraq, Israel, Syria, Lebanon, Kazakhstan, Mid Asia, North-West Africa. E\ME

*Longitarsus alferii furthi* Gruiev, 1982

Mt. Pirin, 1200 m; Bansko (GRUEV, 1992). Distribution: Bulgaria, Macedonia, Serbia, Georgia, Crimea, Turkey, Spain, Crete. E\SbM\HSbM

*Longitarsus anaticolicus* Weise, 1900

Melnik (GRUEV & DÖBERL, 2005). Distribution: Iran, Azerbaijan, Asiatic Turkey, Bulgaria, Israel. SWAs\SbIn\InTur

*Longitarsus anchusae* (Paykull, 1799)

Melnik; Bansko, 1200 m, above vill. Gospodintsi (GRUEV, 1992). Distribution: Europe, Caucasus, Asia Minor, Iran, Afghanistan, Iraq, Syria, Jordan, Cyprus, Kazakhstan, Middle Asia, Altai, Siberia (Irkutsk). S\EAP\SibE

*Longitarsus apicalis* (Beck, 1817)

Mt. Pirin (WARCZHALOWSKI, 1969), vill. Dobrinishte (WARCZHALOWSKI, 1974), above Bansko (GRUEV, 1992). Distribution: Europe, Canary Islands, Caucasus, West, Mid and South Siberia. S\EAP\SibE

*Longitarsus ballotae* (Marshall, 1802)

Sandanski > vill. Lilyanovo, 250-500 m (GRUEV, 1978), Melnik; Gotse Delchev; vill. Mesta (GRUEV, 1992). Distribution: West, Mid, South and South Europe, Caucasus, Asia Minor, Iran, Cyprus, Syria, Israel, Jordan, Kazakhstan, Mongolia, Yemen, North Africa. S\EAP\SSibE

*Longitarsus behnei* Gruiev et Arnold, 1989

Vihren peak, p. "Kabata", 2600 m – locus typicus (GRUEV & ARNOLD, 1989). Distribution: Bulgaria (Mt. Pirin). End/BgEnd

*Longitarsus bertii* Leonardi, 1973

above Sandanski (GRUEV, 1971 – *Longitarsus ferrugineus*), Melnik, above vill. Katuntsi (GRUEV, 1992). Distribution: Mid, East and South-East Europe, Italy, Caucasus, Turkmenistan, Asia Minor, Iran, Syria, Israel, Cyprus. E\ME

*Longitarsus brisouti* Heikertinger, 1912

Bansko (GRUEV, 1992). Distribution: Mid, South and South-East Europe, Asia Minor. E\ME

*Longitarsus brunneus* (Duftschmid, 1825)

Bansko (GRUEV, 1992). Distribution: Europe, Palaearctic Asia (excl. Japan). S\EAP\TrPal

*Longitarsus curtus* (Allard, 1860)

Melnik (GRUEV, 1992; WARCZHALOWSKI, 1995). Distribution: Europe, Caucasus, Afghanistan, Middle Asia, Transbaikalia (Buryatiya). S\EAP\TrPal

*Longitarsus exoletus* (Linnaeus, 1758)

above Kresna (GRUEV, 1970 – *Longitarsus exoletus rufulus*), Melnik (WARCZHALOWSKI, 1974), above vill. Lilyanovo (GRUEV, 1992). Distribution: Europe, Caucasus, Asia Minor, Turkmenistan, Iran, Syria, Cyprus. E\ME

*Longitarsus foudrasi* Weise, 1893

Melnik (WARCZHALOWSKI, 1974), m. h. "Banderitsa" (GRUEV, 2002b), vill. Lopovo (VIG, 2002). Distribution: Mid and East Europe, Palaearctic Asia (excl. Japan), North-West Africa. S\EAP\TrPal

*Longitarsus fulgens* (Foudras, 1860)

Melnik (BOROWIEC, 1979). Distribution: Europe, Caucasus, South Siberia. S\EAP\SSibE

*Longitarsus ganglbaueri* Heikertinger, 1912  
Bansko, 1200 m (GRUEV, 1973a), Mt. Pirin; m. h. “Banderitsa” (GRUEV, 1992), Vihren peak, p. “Kabata” (GRUEV, 2002b). Distribution: Europe, Caucasus, Asia Minor, Mongolia, Siberia, Sakhalien. S\EAP\TrPal

*Longitarsus gracilis* Kutschera, 1864  
vill. Dobrinishte (WARCZHALOWSKI, 1974). Distribution: Europe, Caucasus, Turkey, Israel, North-West Africa. E\ME

*Longitarsus bolsaticus* (Linnaeus, 1758)  
Gotse Delchev (GRUEV & TOMOV, 1986). Distribution: Europe, Palaearctic Asia. S\EAP\TrPal

*Longitarsus kutscherae* (Rye, 1872)  
Melnik (GRUEV, 1992). Distribution: Europe, Palaearctic Asia (excl. Japan), Algeria. S\EAP\HPal

*Longitarsus lateripunctatus personatus* Weise, 1893  
Melnik (WARCZHALOWSKI, 1974 - *Longitarsus lateripunctatus*), Melnik (GRUEV & TOMOV, 1975). Distribution: Mid and East Europe, Caucasus, Asia Minor, Rhodos, Cyprus, Israel. E\ME

*Longitarsus linnaei* (Duftschmid, 1825)  
Melnik (WARCZHALOWSKI, 1974), p. “Popina Laka” above Sandanski (GRUEV, 1992). Distribution: Mid and South Europe, Caucasus, Asia Minor, Iran, Syria, Israel. E\ME

*Longitarsus longipennis* Kutschera, 1863  
Melnik; p. “Popina Laka” above Sandanski (GRUEV, 1992). Distribution: Mid and South Europe, Caucasus, Asia Minor, Kazakhstan, Mid Asia, Siberia eastward to Yakutia. S\EAP\TrPal

*Longitarsus luridus* (Scopoli, 1763)  
Melnik; vill. Mesta; vil. Dobrinishte; Gotse Delchev (GRUEV, 1992), Predela-Pass (GRUEV, 2002b). Distribution: Europe, Palaearctic Asia eastwards to Vladivostok. S\EAP\TrPal

*Longitarsus lycopi* (Foudras, 1860)  
Melnik; p. “Popina Laka” above Sandanski; p. “Popski Preslop” (GRUEV, 1992). Distribution: Europe, Caucasus, Asia Minor, Iran, Iraq, Kazakhstan, Mid Asia, Syria, Israel, Jordan, Saudi Arabia, Yemen, North Africa, Chad. E\ME

*Longitarsus melanocephalus* (De Geer, 1775)  
vill. Dobrinishte; p. “Popina Laka” above Sandanski (WARCZHALOWSKI, 1974), Sandanski > vill. Lilyanovo, 250-500 m; p. “Popina Laka” above Sandanski, 1400-1600 m (GRUEV, 1978), Melnik; Bansko, 1200 m; vill. Dobrinishte; p. “Popski Preslop” (GRUEV, 1992), Predela-Pass (GRUEV, 2002b). Distribution: Europe, Palaearctic Asia eastwards to Transbaikalia. S\EAP\TrPal

*Longitarsus membranaceus* (Foudras, 1860)  
Melnik (WARCZHALOWSKI, 1974). Distribution: Mid and South Europe, Caucasus, Asia Minor, Iran, Israel, Cyprus, North-West Africa. E\ME

*Longitarsus nanus* (Foudras, 1860)  
Melnik (WARCZHALOWSKI, 1974), Sandanski > vill. Lilyanovo, 400-450 m (GRUEV, 1978). Distribution: Mid and South Europe, Caucasus, Turkey, Rhodos, Israel, Algeria. E\ME

*Longitarsus niger* (Koch, 1803)  
vill. Dobrinishte (WARCZHALOWSKI, 1974), Melnik; Bansko; p. “Popski Preslop”; m. h. “Yane Sandanski” above Sandanski; m. h. “Banderitsa” (GRUEV, 1992). Distribution: Europe, Caucasus, Asia Minor. E\ME

*Longitarsus nigrofasciatus* (Goeze, 1777)

above Kresna Gorge (GRUEV, 1969b), Sandanski > vill. Lilyanovo, 400-450 m (GRUEV, 1978), Gotse Delchev; vil. Mesta; Menik; vill. Rozhen nr. Melnik; vill. Dobrinishte; Bansko; m. h. "Vihren", 2100 m (GRUEV, 1992), m. h. "Banderitsa"; m. h. "Banderitsa" > Bansko (GRUEV, 2002b), Mt. Pirin (VIG, 2002). Distribution: Europe, Macaronesia, Caucasus, Asia Minor, Iran, Iraq, Israel, Jordan, Cyprus, North-West Africa, Kazakhstan, Mid Asia, West Siberia. S\EAP\SibE

*Longitarsus nimrodi* Furth, 1979

Melnik (GRUEV & DÖBERL, 2005). Distribution: North-East Italy, Slovenia, Macedonia, Bulgaria, Turkey, Israel. E/SbM/ESbM

*Longitarsus obliteratus* (Rosenhauer, 1847)

Melnik (GRUEV, 1969b), p. "Popski Preslop"; vill. Dobrinishte; Melnik; above Kresna (GRUEV, 1973b), Sandanski > vill. Lilyanovo, 250-500 m (GRUEV, 1978). Distribution: Mid, South and South-East Europe, Caucasus, Asiatic Turkey, Iran, Syria, Israel, Jordan. E\ME

*Longitarsus pellucidus* (Foudras, 1860)

Sandanski > vill. Lilyanovo, 250-500 m (GRUEV, 1978), Gotse Delchev; Melnik (GRUEV, 1992). Distribution: Europe, Palaeartic Asia eastwards to Sayan Mts. and Mongolia; India. S\EAP\SibE

*Longitarsus pratensis* (Panzer, 1794)

Sandanski > vill. Lilyanovo, 250-500 m (GRUEV, 1978), p. "Popski Preslop" (GRUEV, 1991), Predela-Pass (GRUEV, 2002b). Distribution: whole of Europe, Palaeartic Asia eastwards to Mid Asia. E\ME

*Longitarsus quadriguttatus* (Pontoppidan, 1765)

Melnik, Bansko; m. h. "Banderitsa"; p. "Popski Preslop" (GRUEV & TOMOV 1986). Distribution: Europe, Caucasus, Asia Minor. E\ME

*Longitarsus reichei* (Allard, 1860)

Melnik (LEONARDI & DOGUET, 1990). Distribution: Europe, Caucasus, Turkey, Iran. E\ME

*Longitarsus scutellaris* (Rey, 1874)

Rozhenski monastery above Melnik (GRUEV & MERKL, 1992). Distribution: Europe, Caucasus, Asia Minor, Siberia, Mongolia. S\EAP\SibE

*Longitarsus succineus* (Foudras, 1860)

Melnik; p. "Papaz Chair" (GRUEV, 1992), vill. Lilyanovo (GRUEV, 2002b). Distribution: Europe, Palaeartic Asia, North-West Africa. S\EAP\HPal

*Longitarsus suturellus* (Duftschmid, 1825)

vill. Dobrinishte (WARCZHALOWSKI, 1974), m. h. "Banderitsa" (GRUEV, 1992), p. "Kabata", 2600 m (GRUEV, 2002b). Distribution: Europe, Palaeartic Asia. S\EAP\TrPal

*Longitarsus tabidus* (Fabricius, 1775)

Sandanski > vill. Lilyanovo, 250-500 m (GRUEV, 1978), Melnik; p. "Popina Laka" above Sandanski (GRUEV, 1992). Distribution: Europe, Caucasus, Asia Minor, Iran, Israel, Cyprus, North-West Africa, Kazakhstan, Mid Asia, West Siberia, Sayan Mts., Mongolia. S\EAP\SibE

*Lythraria salicariae* (Paykull, 1800)

vill. Dobrinishte (GRUEV & TOMOV, 1986). Distribution: Europe, Palaeartic Asia. S\EAP\TrPal

*Mantura obtusata* (Gyllenhal, 1813)

m. h. "Banderitsa" (GRUEV, 1992). Distribution: Europe, Caucasus. E\ME

*Minota halmae* (Apfelbeck, 1906)  
p. "Popina Laka" above Sandanski (GRUEV, 1992, 2002a). Distribution: mountains of Central Europe and Northern Balkans. E\MEMount

*Mniophila muscorum* (Koch, 1803)  
Mt. Pirin (GRUEV, 1992). Distribution: Europe, Caucasus. E\ME

*Neocrepidodera corpulenta* (Kutschera, 1860)  
p. "Popina Laka" above Sandanski (GRUEV, 1992 - *Asiolestia corpulenta*, 2002a). Distribution: Western Alps, Carpathians, mountains of the Balkan Peninsula. E\MEMount

*Neocrepidodera ferruginea* (Scopoli, 1763)  
Sandanski > vill. Lilyanovo, 300-350 m (GRUEV, 1978 - *Crepidodera ferruginea*), Melnik; Bansko; m. h. "Yane Sandanski" above Sandanski; m. h. "Banderitsa", 1800 m; Predela-Pass (GRUEV, 1992 - *Asiolestia ferruginea*). Distribution: Europe, Caucasus, Turkey, Iran. E\ME

*Neocrepidodera peirolerii* (Kutschera, 1860)  
Kamenitsa peak, 2000 m (WARCHALOWSKI, 1974 - *Crepidodera peirolerii*), Begovitsa Valley, 1900-2000 m (GRUEV, 1978 - *Crepidodera peirolerii*). "Popina Laka" (GRUEV, 1990a - "*Asiolestia peirolerii*", 2002a). Distribution: mountains of Austria, Slovenia, Bosnia-Herzegovina, Macedonia, Bulgaria, France, North Italy, Switzerland. E\MEMount

*Neocrepidodera transversa* (Marsham, 1802)  
Melnik; Gotse Delchev (GRUEV, 1992 - *Asiolestia transversa*). Distribution: Europe, Caucasus, Asia Minor, Iran, Cyprus. E\ME

*Phyllotreta astrachanica* Lopatin, 1977  
Gotse Delchev; Melnik; Bansko (GRUEV, 1992). Distribution: Mid and South Europe, Caucasus, Asia Minor, Cyprus, North-West Kazakhstan. E\ME

*Phyllotreta atra* (Fabricius, 1775)  
Melnik; vill. Rozhen nr. Melnik (GRUEV, 1992). New material: Bansko, 18.V.1978. Distribution: Europe, Palearctic Asia (excl. Japan), Morocco, Yemen. S\EAP\HPal

*Phyllotreta balcanica* Heikertinger, 1909  
Melnik (GRUEV, 1992). New material: Rozhenski monastery, 21.V.1978; Bansko, 18.V.1978. Distribution: South and South-East Europe, Caucasus, Asia Minor, Afghanistan, Kazakhstan, Mid Asia. SWAs\SbIn\InTur

*Phyllotreta cruciferae* (Goeze, 1777)  
Melnik (WARCHALOWSKI, 1974), Begovitsa Valley, 1900-2000 m; Sandanski > vill. Lilyanovo, 250-500 m (GRUEV, 1978), Melnik; Gotse Delchev (GRUEV, 1992). New material: Bansko, 18.V.1978. Distribution: Europe, Caucasus, Asia Minor, Iran, West Siberia, Sayan Mts., Mongolia, Israel, Jordan, North Africa, Ethiopia, Sudan, India. S\EAP\SibE

\* *Phyllotreta diademata* Foudras, 1860  
ab. vill. Vlaha, 15.VI.1970. Distribution: throughout Europe to Central Asia, recorded also from North India (Sikkim). S\EAP\SibE

*Phyllotreta nemorum* (Linnaeus, 1758)  
vill. Rozhen nr. Melnik (GRUEV, 1992). Distribution: Europe, Palearctic Asia (excl. Japan). S\EAP\SibE

*Phyllotreta nigripes* (Fabricius, 1775)  
Melnik; vill. Delchevo; m. h. "Vihren", 2100 m (GRUEV, 1992). Distribution: Europe, Palearctic Asia eastwards to Middle Asia and Kazakhstan, North Africa. E\ME

*Phyllotreta ochripes* (Curtis, 1837)

Melnik (GRUEV, 1992), above Kresna (GRUEV, 2002b). Distribution: Europe, Palearctic Asia (excl. Japan). S\EAP\TrPal

*Phyllotreta procera* (Redtenbacher, 1849)

Melnik (WARCZHALOWSKI, 1974). Distribution: Mid and South Europe, Macaronesia, Caucasus, Asia Minor, Iran, Mid Asia, Israel, Jordan, Cyprus, North-West Africa, Tanzania. SWAs\SbIn\InTur

*Phyllotreta punctulata* (Marsham, 1802)

Melnik (GRUEV, 1992 - *Phyllotreta aerea*). Distribution: Mid and South Europe, Caucasus, Asia Minor, Israel, Morocco. E\ME

*Phyllotreta striolata* (Fabricius, 1803)

m. h. "Yane Sandanski" above Sandanski (GRUEV & TOMOV, 1965 - *Phyllotreta vittata*). Distribution: Europe, Asia, Indonesia. S\EAP\TrPal

*Phyllotreta tetrastigma* (Comolli, 1837)

Mt. Pirin (GRUEV & TOMOV, 1986), m. h. "Yane Sandanski" above Sandanski; p. "Papaz Chair" (GRUEV, 1992), p. "Bazovitsa" (GRUEV, 2002b). Distribution: Europe, Turkey, West and Mid Siberia, Yakutia. S\EAP\SibE

*Phyllotreta vilis* Weise, 1888

Melnik (TOMOV & GRUEV, 1973). Distribution: Southeast Europe, Turkey E\SbM\ESbM

*Phyllotreta vittula* (Redtenbacher, 1849)

Sandanski > vill. Lilyanovo, 300-350 m (GRUEV, 1978), Melnik; Melnik > vill. Rozhen (GRUEV, 1992). Distribution: Europe, Palearctic Asia (excl. Japan). S\EAP\TrPal

*Podagrica fuscicornis* (Linnaeus, 1766)

Melnik (WARCZHALOWSKI, 1974), p. "Popina Laka" above Sandanski, 1200 m (GRUEV, 2002b), Sandanska Bistritsa Valley (VIG, 2002). Distribution: Mid and South Europe, Caucasus, Asia Minor, Syria, Israel, Lebanon, North-West Africa, Canary Islands. E\ME

*Podagrica malvae* (Illiger, 1807)

Melnik; vill. Rozhen nr. Melnik; p. "Popina Laka" above Sandanski, 1700 m (GRUEV, 1992). Distribution: Mid and South Europe, Caucasus, Asia Minor, Iran, Iraq, Syria, Jordan, Israel, Cyprus. E\ME

*Podagrica menetriesi* (Faldermann, 1837)

Melnik; m. h. "Yane Sandanski" above Sandanski (GRUEV, 1992). Distribution: Mid and South Europe, Caucasus, Asia Minor, Rhodos, Iraq, Kazakhstan, Mid Asia, West China. SWAs\SbIn\InTur

*Psylliodes aereus austriacus* Heikertinger, 1911

Vihren peak, 2400 m (GRUEV & TOMOV, 1998; GRUEV, 2002a). Distribution: mountains of Austria, Bulgaria, Czechia, Slovakia, Ukraine, Hungary, Romania. E\MEMount

*Psylliodes affinis* (Paykull, 1799)

Bansko; vill. Lilyanovo (GRUEV, 1992), p. "Popina Laka" above Sandanski, 1250 m (GRUEV, 2002b). Distribution: Europe, Caucasus, Kazakhstan, West Siberia, Altai, Morocco. S\EAP\SibE

*Psylliodes chalcomerus* (Illiger, 1807)

Melnik (WARCZHALOWSKI, 1974). New material: Bansko, 18.V.1978; Rozhenski monastery nr. Melnik. Distribution: Europe, Palearctic Asia (excl. Japan), North-West Africa. S\EAP\HPal

*Psylliodes circumdatus* (Redetenbacher, 1842)  
Melnik; vill. Rozhen nr. Melnik (GRUEV, 1992). Distribution: Mid and South Europe, Caucasus, Asia Minor, Iran, Near East, North Africa. E\ME

*Psylliodes cupreus* (Koch, 1803)  
Melnik; vill. Rozhen nr. Melnik (GRUEV, 1992). New material: Bansko, 18.V.1978. Distribution: Europe, Palearctic Asia eastwards to Transbaikalia, North-West Africa. S\EAP\SibE

*Psylliodes dulcamarae* (Koch, 1803)  
p. "Popina Laka" above Sandanski (WARCZHALOWSKI, 1974), vill. Lilyanovo, 600 m (GRUEV, 1992). Distribution: Europe, Palearctic Asia eastwards to West Siberia. S\EAP\SibE

*Psylliodes hyoscyami* (Linnaeus, 1758)  
Melnik (WARCZHALOWSKI, 1974). Distribution: Europe, Palearctic Asia (excl. Japan). S\EAP\TrPal

*Psylliodes instabilis* Feudras, 1860  
Gotse Delchev (GRUEV, 1992), Melnik (GRUEV, 2002b). Distribution: Mid and South Europe, Caucasus, Asia Minor, Israel, Cyprus, North-West Africa. E\ME

*Psylliodes isatidis* Heikertinger, 1912  
Melnik (GRUEV, 1992). Distribution: Europe, Palearctic Asia eastwards to Kazakhstan, Mid Asia, West Siberia and Mongolia. S\EAP\SibE

*Psylliodes kiesewetteri* Kutschera, 1864  
Melnik (WARCZHALOWSKI, 1974 - *Psylliodes glabra*), Bansko (GRUEV, 1992). Distribution: South-East Europe, Italy, Austria, Asia Minor. E\SbM\ESbM

*Psylliodes laticollis* Kutschera, 1864  
Melnik (GRUEV, 1990b). Distribution: Mid, West and South Europe, North-West Africa, Macaronesia. E\ME

*Psylliodes napi* (Fabricius, 1792)  
Melnik (GRUEV, 1992). Distribution: Europe, Palearctic Asia (excl. Japan), North-West Africa. S\EAP\HPal

*Psylliodes pallidicolor* Pic, 1903  
Sandanski > vill. Lilyanovo, 250-500 m (GRUEV, 1978). New material: Melnik, VIII.1982. Distribution: Bulgaria, Greece, Spain, Asiatic Turkey, Iraq, Israel, Lebanon, Syria. M\HM

### **Hispinac**

*Hispa atra* Linnaeus, 1767  
Melnik; vill. Dobrinishte (GRUEV, 1992). Distribution: Europe, Palearctic Asia eastwards to North China; North Africa. S\EAP\SibE

### **Cassidinae**

*Cassida atrata* Fabricius, 1787  
vill. Dobrinishte (GRUEV, 1992). Distribution: Mid and South-East Europe, Caucasus, Asia Minor. E\ME

*Cassida fastuosa* Schaller, 1783  
Melnik (GRUEV, 1992). Distribution: Mid, South and Eastern Europe, Caucasus, Kazakhstan, Mid Asia, West Siberia. S\EAP\SibE

*Cassida ferruginea* Goeze, 1777  
Melnik (GRUEV, 1992). Distribution: Europe, Siberia eastwards to the Baikal area. S\EAP\SibE

*Cassida flaveola* Thunberg, 1794  
m. h. "Yane Sandanski" above Sandanski, 1230 m (GRUEV, 1967), vill. Lilyanovo, p. "Popski preslop" (GRUEV, 1992), vill. Rozhen nr. Melnik (GRUEV, 2002a). Distribution: Europe, Palaeartic Asia eastwards to the Russian Far East. S\EAP\TrPal

*Cassida lineola* Creutzer, 1799  
Melnik (WARCZHALOWSKI, 1974), above Kresna (GRUEV & TOMOV, 1986), Melnik > vill. Hotovo (GRUEV, 1992). Distribution: Europe, Palaeartic Asia. S\EAP\TrPal

*Cassida margaritacea* Schaller, 1783  
Melnik; vill. Dobrinishte (GRUEV, 1992), Rozhenski monastery above Melnik (VIG, 2002). Distribution: Europe, Caucasus, Asia Minor, Siberia eastwards to the Baikal area. S\EAP\SibE

*Cassida murraea* Linnaeus, 1767  
vill. Delchevo (GRUEV, 1992). Distribution: Palaearticis (excl. North Africa). S\EAP\TrPal

*Cassida nobilis* Linnaeus, 1758  
Melnik (WARCZHALOWSKI, 1974). Distribution: Europe, Palaeartic Asia (incl. Japan). S\EAP\TrPal

*Cassida pannonica* Suffrian, 1844  
Melnik; vill. Mesta (GRUEV, 1992). Distribution: Mid, South and East Europe, Caucasus, Asia Minor, North Kazakhstan, Middle Asia. SWAs\SbIn

*Cassida panzeri* Weise, 1907  
Predela-Pass (GRUEV & TOMOV, 1986). Distribution: From Mid and East Europe to the Russian Far East and Japan. S\EAP\TrPal

*Cassida prasina* Illiger, 1798  
Melnik; Predela-Pass, m. h. "Yane Sandanski", Banderitsa, Sandanska Bistritsa (GRUEV, 1992). Distribution: Europe, Asia Minor, Kazakhstan, Siberia, North China, Taiwan. S\EAP\SibE

*Cassida rubiginosa* Mueller, 1776  
above Kresna; vill. Dobrinishte; m. h. "Yane Sandanski" above Sandanski, 1250 m; m. h. "Banderitsa" (GRUEV, 1992). Distribution: Palaearticis, Taiwan. S\EAP\HPal

*Cassida sanguinolenta* Mueller, 1776  
Melnik; m. h. "Yane Sandanski" above Sandanski (GRUEV, 1992), Rozhenski monastery above Melnik (VIG, 2002). Distribution: Europe, Palaeartic Asia eastwards to Kamchatka. S\EAP\TrPal

*Cassida seladonia* Gyllenhal, 1827  
Melnik (GRUEV & TOMOV, 1986). Distribution: Mid, South and Eastern Europe, Precaucasus, North-West Africa. E\ME

*Cassida subferruginea* Schrank, 1776  
Melnik; vill. Mesta (GRUEV, 1992). Distribution: Palaearticis. S\EAP\TrPal



*Cassida subreticulata* Suffrian, 1844  
Melnik (GRUEV, 1992). Distribution: Europe, Caucasus, Asia Minor, Turkmenistan, Iran, Siberia (with Amurland). S\EAP\SibE

*Cassida vibex* Linnaeus, 1767  
Melnik (GRUEV, 1992). Distribution: Europe, Palaeartic Asia. S\EAP\TrPal

*Cassida viridis* Linnaeus, 1758  
vill. Lilyanovo; m. h. "Yane Sandanski" above Sandanski, 1250 m; p. "Popski Preslop" (GRUEV, 1992).  
Distribution: Palaeartictis. S\EAP\HPal

### Zoogeography

Biogeographically the Pirin Mountain belongs to three regions (GRUEV, 1988): Mountainous (Rila-Rhodopes subregion – nearly above 900-1000 m a. s. l.), Mid-Bulgarian (Upper-Struma subregion – below 900-1000 m a. s. l.) and South Bulgarian (Struma-Mesta subregion – below 900-1000 m a. s. l.). The differences in conditions in those parts of the mountain (climate, relief, petrographic characteristics, ground, etc.) stipulate the diversity of the flora and vegetation and the fauna and animal populations. Thus, worm-loving forms inhabit the low parts of the mountain, the cool- and cold-loving forms – the higher parts, and the forms with large ecological possibilities – all the zones.

The zoogeographical belonging of the taxa (see Faunistic list) are presented mainly after the works of GRUEV (1988, 1990, 2000, 2002, 2002a), GRUEV (In: GRUEV & KUZMANOV, 1994, 1999), GRUEV (1995) and GRUEV & BECHEV (2000):

1. S – Siberian complex
  - EAP – Euro Asiatic Palaeartic element
  - SibE – Sibero-European subelement
  - SSibE – Southsibero-European subelement
  - TrPal – Transpalaeartic subelement
  - HPal – Holopalaeartic subelement
  - H – Holarctic element
2. E – European complex
  - ME – Mid European element
  - MEMount – Mid European mountain element
  - SEEMount – Southeast European mountain element
  - SbM – Sub Mediterranean element
  - HSbM – Holosubmediterranean subelement
  - ESbM – Eastsubmediterranean subelement
3. M – Mediterranean complex
  - HM – Holomediterranean element
4. SWAs – Southwest Asiatic complex
  - SbIn – Sub Iranian element
  - InTur – Irano-Turanian subelement
  - AsM – Asia Minor subelement
5. End – Endemic
  - BnEnd – Endemic of the Balkan Peninsula
  - BgEnd – Endemic of Bulgaria

The Siberian (150 taxa) and the European (113 taxa) complexes are the dominant zoogeographical complexes in the Pirin Mountain. Their components are represented in various zones, and some species of high ecological valence are distributed from foot to peak.

The taxa of the Siberian complex, arranged by rate of richness, are: Sibero-European (incl. 11 Southsibero-European) - 83, Transpalaeartic - 52, Holopalaeartic - 14, Holarctic - 1. The taxa of the European complex are: Mid European - 77, Mideuropean mountainous - 5, Holosubmediterranean - 13, Eastsubmediterranean - 17, Southeast European mountainous - 1.

The sub Mediterranean forms, distributed in the Sub Mediterranean zone (GRUEV, 2000) of Eurasia (and also in the Mediterranean: North, East or the whole), and the Mediterranean species (Holomediterranean - 2), are established in the low warm parts of the Pirin Mountain.

The five representatives of the Mideuropean mountain element, and also one species of the Southeast European mountain element (*Batophila moesica* - with probably South Carpathian origin) are found in the Pirin Mountain between 1200 and 2400 m a. s. l.

The Southwest Asiatic complex is represented by only 15 species (Sub Iranian - 5, Asia Minor - 3, Irano-Turanian - 7), established mostly in the low parts, and one - from Melnik up to Bansko.

The group of the endemics consists of 7 taxa. The subspecies *Gonioctena pallida reticulata*, *Oreina speciosissima drenskii* and *O. virgulata ljubetensis* are Balkan mountain neoendemics of glacial origin from mid European mountain ancestor forms. The Balkan endemics *Clytra valeriana tetrastigma*, *Luperus graecus* and *Aphthona parmassicola* are probably of Sub Mediterranean or Mideuropean origin dating back to the warmer times of the late Tertiary. The Bulgarian endemic *Longitarsus behnei* is found in the alpine zone of the Pirin Mountain, in June, by snow edges. That species was described not long ago. So, for the time being it has to be considered as an endemic of the Pirin Mountain only conditionally. Perhaps *L. behnei* is a Quaternary derivative of a hypothetical Mid European mountain form.

Some taxa are excluded from the herein presented zoogeographical review because of their unclear zoogeographic belonging. A few other species are treated here under different zoogeographical types (compared with those in GRUEV & BECHEV, 2000) after newly established data about them.

The role of the Pirin Mountain as a refugium complex has been accentuated many times by the botanists and zoologists. There are many plants and animals surviving in the Pirin refugia, and many new taxa have been formed in the mountain. The endemics and the rare mountain species of Chrysomelidae enumerated here illustrate that particular role of the Pirin Mountain too. There is no danger of their populations being injured because the high mountain vegetation, including the food plants of the leaf beetles, is unaffected for the time being.

The leaf beetles, especially the species of *Chrysolina* and *Oreina*, contribute to the common beauty of the Pirin Mountain with their many-coloured tint of body.

### Acknowledgements

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### **Листоядите (Coleoptera: Chrysomelidae) на Пирин планина**

Благой ГРУЕВ

(Резюме)

Направен е фаунистичен и зоогеографски преглед на листоядите на Пирин. Общият брой на установените до момента таксони е 289 (включително 38, съобщени тук за първи път за фауната на Пирин). Този брой съставлява 57 % от всички установени в България видове и подвидове листояди. От тях 6 са балкански ендемити (*Clytra valeriana tetrastigma*, *Luperus graecus*, *Goniocetena pallida reticulata*, *Oreina speciosissima drenskii*, *O. virgulata ljubetensis*, *Aphthona parnassicola*), а един - български (пирински) ендемит (*Longitarsus behnei*). Преобладаващи зоогеографски комплекси са Сибирският (150 таксона) и Европейският (113 таксона). Установени са и 15 представители на Югозападноазиатския комплекс и 2 на Медитеранския комплекс (Холомедитерански видове: *Miopristis dentipes* и *Psylliodes pallidicolor*).

## Еберхард Унджиян на 70 години

Алекси ПОПОВ



Неотдавна навърши 70-годишна възраст Еберхард Унджиян, чието име свързваме със зоологическите му изследвания, с активната му природозащитна дейност в Русенския край и с дългогодишните му усилия да осигури по-добри условия за развитието на отдел Природа на регионалния музей в Русе. Той е роден на 7 юли 1934 в Берлин в семейството на арменец и германка. В началото на 1944 семейството се преселва от Майсен в България и младият Еберхард завършва френски колеж и гимназия, а през 1958 и биология в Софийския университет със специализация към Катедрата по зоология на гръбначните животни. За кратко време е учител в Образцов чифлик край Русе и работи в Института по рибарство във Варна. Цялата му по-нататъшна професионална биография преминава като завеждащ отдел Природа на Регионалния исторически музей в Русе, какъвто е в продължение на 34 години (1960-1994). Сега е пенсионер, а през

1996-1999 е бил експерт по биологични въпроси при Дирекцията на Природния парк Русенски Лом.

Научната му дейност, плод на която са 20 статии и книги, е посветена на гръбначните животни. Многогодишните си наблюдения в долината на Ломовете и природния парк, безспорно най-интересната част от природата в Русенско, той обобщава в седем книги и статии, посветени на бозайниците, птиците, влечугите, земноводните и рибите. Е. Унджиян е открил речния ивъркач като нова птица за българската фауна и е намерил за първи път в Русенско обикновения буревестник и трипръстата чайка от птиците, както и змиегуцера и гекона от влечугите.

Зоолозите от неговото поколение го познават като човек с широка биологична култура и ревностен популяризатор на природонаучни знания. Автор е на около 120 научнопопулярни статии, от които 20 в Природа и знание и други списания. Те са посветени на видове бозайници и птици, мекотели и насекоми, на сунавските острови, на препарирането на едри животни. Владенето или ползването на основните чужди езици му помага да състави нетезичен речник на птиците в Европа и шестезичен речник на дърветата и храстите в България, които макар и непубликувани, са на разположение на българската общественост съответно в Българското дружество за защита на птиците и в Дирекцията на Природния парк Русенски Лом. В продължение на десет години той реферира в Орнитологическия информационен бюлетин 58 чуждестранни публикации върху българските птици. Ръководи пет поледи практики с германски и български студенти в Северна България.

Докато завеждаше отдел Природа, Еберхард Унджиян неуморно се бореше за разрешаване на въпроса с останалия без сграда отдел на музея. Той състави план за експозицията и през всичките тези години успя да опази колекциите, чийто родоначалник е първият изследовател на фауната и флората на Русенско – учителят Васил Ковачев. Сега мечтата на Е. Унджиян е на път да се осъществи. В нова сграда са приютени колекциите и препараторската работилница. Остава да се достроят залите за бъдещата експозиция.

За интензивната си дейност по изследване на пещерите Еберхард Унджиян е награден от Българския туристически съюз с медал Алеко Константинов и от Българската федерация по спелеология със сребърен и бронзов прилеп.

Българските зоолози пожелават на Еберхард Унджиян в добро здраве да продължи толкова актуалната и полезна за нашето общество природозащитна дейност.