

Научни трудове на ПУ, Animalia	Год./An	Том/Vol.	Кн./Fasc.	с./pp.
Trav. Sci. Univ. Plovdiv, Animalia	2003	39	6	41-53

THE LEAF BEETLES (COLEOPTERA: CHRYSOMELIDAE) OF SAKAR MOUNTAIN (SOUTH-EAST BULGARIA)

Blagoy A. Gruev

*Department of Zoology, University of Plovdiv,
Tzar Assen Str. 24, BG-4000 Plovdiv, Bulgaria*

Abstract. Faunistic and biogeographical data about 164 taxa of *Chrysomelidae* in Sakar Mountain (South-East Bulgaria) are given.

Key words. Leaf beetles, *Chrysomelidae*, fauna, zoogeography, Bulgaria.

Introduction

Sakar is a small mountain, sooner an elevation, a little higher than the connected with it Manastirski Hills. It is situated among the valleys of Maritsa, Tundzha and Sazlyka. The ridge of Sakar Mountain is outlined by flat summits. Westwards and northwards are detached steep hills. The highest is summit Vishegrad (856 m). The climate of the southern part is transitional-mediterranean, and that of the larger northern part – with transitional-continental features. The average annual temperature of the low parts of Sakar is 12,5° C, and that of the higher parts – 10° C. The average annual precipitation is about 580 mm with maximum in winter, when the half of the precipitations are rainfalls. Winter is mild, and summer – dry and moderately hot.

Biogeographically the smaller southern part of Sakar Mountain belongs to the Lower Maritsa – Lower Tundzha subregion of the Southbulgarian biogeographical region, and the northern part – to the Subregion of the Tundzha hilly lowland of the Midbulgarian biogeographical region (Gruev, 1988). Dominant trees in the natural woods are various oaks (*Quercus delechampii*, *Q. frainetto*, *Q. cerris*, *Q. pubescens*; rarely *Q. hartwissiana*). Besides them some other species are presented: *Carpinus betulus*, *C. orientalis*, *Tilia tomentosa*, *Acer campestre*, *Paliurus aculeatus*, *Cotinus coggygia*, *Ruscus aculeatus* etc. The higher plants of the twenty vegetable types are about 500, 17 of which are old relicts. In the above-mentioned natural conditions of Sakar Mountain exist many representatives of *Chrysomelidae*, exceptionally trophically connected with the plants. There have been established 163 species and subspecies till now, many of which are components of the warm-loving fauna of Bulgaria (mediterranean, submediterranean, subiranian).

The faunistic list is composed on the basis of the literature data, as well as of unpublished material. It contains 164 taxa (*Donaciinae* – 4, *Criocerinae* – 5, *Clytrinae* – 15, *Cryptocephalinae* – 20, *Eumolpinae* – 2, *Chrysomelinae* – 20, *Galerucinae* – 9, *Alticinae* – 76, *Hispinae* – 1, *Cassidinae* – 12). That number is sizable having in mind the miniature surface of Sakar Mountain, its dryness and its comparatively weakly spread out wood vegetation. It constitutes 33 % of the leaf beetles in Bulgaria. Newly recorded to the fauna of Sakar Mountain herein are 42 taxa, and new material about 27 taxa is presented. Finds of some more taxa in the future are not excluded of course, because special investigations on the leaf beetles of Sakar Mountains have not been made. Besides that the records in the literature date barely from 1964 and they are result of work of only four authors.

Acknowledgements. I deeply thank Dr. Vassil Tomov of the University of Plovdiv for loan and identification of his material of *Donaciinae*, *Criocerinae*, *Clytrinae*, *Cryptocephalinae* and *Galerucinae*, and to the colleague Mr. Zlatko Zlatev for the loan of specimens, collected by him in Sakar.

Faunistic list

(Abbreviations: **excl.** - excluding, **incl.** – including, **vill.** – village; Zoogeographical categories: **S** – Siberian complex [**EAP** – Euroasiatic Palaearctic element, **SibE** – Siberoeuropean subelement, **SSibE** – Southsiberoeuropean subelement, **TrPal** – Transpalaearctic subelement, **HPal** – Holopalaearctic subelement], **E** – European complex [**ME** – Mideuropean element, **SbM** – Submediterranean element, **HSbM** – Holosubmediterranean subelement, **EsbM** – Eastsubmediterranean subelement], **SWAs** – Southwestasiatic complex [**Sbln** – Subiranian element, **IT** – Iranoturanian subelement, **AsM** – Asia Minor subelement], **M** – Mediterranean complex [**HM** – Holomediterranean element, **EM** – Eastmediterranean element]) (see also the part Zoogeography)

DONACIINAE

* *Donacia bicolora* ZSCHACH, 1788

Material: North-East of Svilengrad, IV.1989, South Sakar, V.1990, vill. Balgarin, 6.V.1974. Distribution: Europe, Caucasus, Asia Minor, Middle Asia, West Siberia. S/EAP\SibE

* *Donacia cinerea* HERBST, 1784

Material: vill. Sladun, V.1990. Distribution: from North-East Spain, South France and Ireland to Altai. S/EAP/SSibE

* *Donacia polita* KUNTZE, 1818

Material: North-East of Svilengrad, V.1989. Distribution: South Europe, North Africa. E/SbM/HSbM

* *Donacia thalassina* GERMAR, 1811

Material: South Sakar, 6.V.1974, vill. Levka, V.1990. Distribution: Europe, Siberia, North-West China, Japan. S/EAP\TrPal

CRIOCERINAE

* *Criocerus asparagi maculipes* (GEBLER, 1834)

Material: above vill. Dositeevo, 26.IV.1987. Distribution: Balkan Peninsula, South Ukraine, Caucasus, Asia Minor, Iran, Turkmenistan. SWAs\Sbln

* *Criocerus duodecimpunctata* (LINNAEUS, 1758)

Material: South Sakar, 6.V.1974. Distribution: from Europe (excl. Fenoscandia) to Korea. S/EAP\TrPal

* *Liliocerus lilii* (SCOPOLI, 1763)

Material: vill. Levka, VI.1989. Distribution: from Morocco and England to Kazakhstan, Altai and Siberia. S/EAP/SibE

* **Oulema gallaeciana** (HEYDEN, 1870)

Material: Topolovgrad, 9.V.1974; vill. Madrets, 24.VI.1980, vill. Sinapovo, V.1990, vill. Levka, V.1990. Distribution: western, northern and central parts of Europe, the whole basin of Danube, European Russia, West Siberia. S/EAP/SibE

* **Oulema melanopus** (LINNAEUS, 1758)

Material: South Sakar, 6.V.1974, 5.VI.1971, North-East of Svilengrad, V.1989, vill. Sladun, V.1990, vill. Levka, V.1990. Distribution: from Ireland, South Norway and Morocco to Near East, West and Middle Siberia and Mongolia. S/EAP/SibE

CLYTRINAE

Clytra quadripunctata (LINNAEUS, 1758)

Topolovgrad (WARCHALOWSKI, 1974 – *Clytra appendicina*). Distribution: from Ireland and North Spain to Kazakhstan, Middle Asia and Mongolia. S/EAP/SibE

* **Coptocephala unifasciata** (SCOPOLI, 1763)

Material: vill. Levka, 200 m, 27.VII.1962. Distribution: from North Spain and Belgium to Middle East, Kazakhstan, Middle Asia, Mongolia and Baikal area. S/EAP/SibE

Labidostomis cyanicornis (GERMAR, 1822)

Sakar Mountain (Topolovgrad Distr.) (TOMOV, 1970). New material: South Sakar, VI.1990. Distribution: southern part of Mid Europe; Rumania, Ukraine, basin of Volga, Kazakhstan. E/ME

Labidostomis longimana (LINNAEUS, 1761)

Topolovgrad (WARCHALOWSKI, 1974). New material: vill. Levka, V.1990. Distribution: Europe, Caucasus, Asia Minor, Siberia, Mongolia. S/EAP/SibE

* **Labidostomis lucida axillaris** (LACORDAIRE, 1848)

Material: vill. Madrets, 24.VI.1984, vill. Levka, V.1990. Distribution: from Trieste and South Germany to the basin of Volga and the Caucasian countris. E/SbM/ESbM

Labidostomis oertzeni WEISE, 1889

South Sakar (GRUEV, TOMOV, 1984). Distribution: Bulgaria, Greece, North-West Turkey. E/SbM/ESbM

* **Labidostomis propinqua** FALDERMANN, 1837

Material: vill. Levka, V.1990. Distribution: Bulgaria, South Rumania, Greece, Caucasus, Asia Minor. E/SbM/ESbM

* **Labidostomis rufa** (WATTL, 1838)

Material: vill. Sladun, V.1990. Distribution: Balkan Peninsula, Asia Minor. E/SbM/ESbM

* **Lachnaia sexpunctata** (SCOPOLI, 1763)

Material: vill. Levka, 200 m, 6.V.1974, vill. Kostur, V.1990. Distribution: North-East France (basin of Moselle), South Germany, basin of Danube, Rumania, Ukraine, Balkan Peninsula, Asia Minor. E/SbM/ESbM

Smaragdina aurita (LINNAEUS, 1767)

Topolovgrad (WARCHALOWSKI, 1974 : *Gynandrophthalma aurita*). Distribution: Pyrenees, West France, Italy, Mid Europe, Caucasus countries, Asia Minor. E/ME

* **Smaragdina graeca** (LEFEVRE, 1872)

Material: vill. Levka, 200 m, 6.V.1974; vill. Levka, V.1990. Distribution: Southern parts of the Balkan Peninsula. BnE

* **Smaragdina limbata** (STEVEN, 1806)

Material: vill. Levka, 200 m, 6.V.1974, vill. Kostur, V.1990; above vill. Dositeevo, 24.VI.1987. Distribution: Balkan Peninsula, Caucasian countries, Asia Minor, Middle East, North Iran. SWAs/SbIn

* **Smaragdina salicina** (SCOPOLI, 1763)

Material: vill. Levka, 200 m, 6.V.1974. Distribution: Mid and South Europe, from France and Denmark to the basin of Volga; Caucasian countries. E/ME

* **Smaragdina tibialis** (BRULLE, 1832)

Material: vill. Levka, 200 m, 6.V.1974, vill. Sladun, V.1990. Distribution: Balkan Peninsula, Asia Minor, Syria. SWAs/AsM

* **Smaragdina xanthaspis** (GERMAR, 1824)

Material: South Sakar, 5.VI.1971; vill. Madrets, 24.VI.1980, vill. Kostur, V.1990; vill. Levka, V.1990. Distribution: North Italy, northern part of the Balkan Peninsula, the basin of Danube, South Ukraine, Asia Minor.

Cryptocephalus apicalis GEBLER, 1830

Topolovgrad (WARCHALOWSKI, 1974). New material: vill. Sladun, V.1990. Distribution: from Austria to East Siberia. S/EAP/TrPal

* **Cryptocephalus bipunctatus** (LINNAEUS, 1758)

Material: South Sakar, 5.VI.1971; vill. Madrets, 24.VI.1980; vill. Sladun, V.1990; vill. Levka, V.1990. Distribution: widely distributed from Portugal, Ireland and North Africa to Korea. S/EAP/HPal

* **Cryptocephalus chrysopus** GMELIN, 1788

Material: Sakar, 4.V.1970. Distribution: Mid Europe, South France, North Italy, Bulgaria, Crimea. E/ME

* **Cryptocephalus connexus** OLIVIER, 1807

Material: vill. Hlyabovo, VII.1990. Distribution: Southern and Eastern Europe, Caucasus, Asia Minor, Kazakhstan, Middle Asia, North Africa. SWAs/SbIn

* **Cryptocephalus cordiger** (LINNAEUS, 1758)

Material: vill. Sladun, V.1990. Distribution: from East France and South Sweden to East Siberia. S/EAP/TrPal

Cryptocephalus duplicatus SUFFRIAN, 1847

Topolovgrad (WARCHALOWSKI, 1974; *Cryptocephalus concolor*). New material: vill. Levka, V.1990; vill. Sladun, V.1990. Distribution: eastern parts of the Balkan Peninsula, Caucasus, Asia Minor. E/SbM/ESbM

* **Cryptocephalus flavipes** FABRICIUS, 1781

Material: vill. Levka, 200 m, 6.V.1974; vill. Kostur, V.1990; vill. Ustrem, VII.1990. Distribution: Europe, Asia Minor, Middle Asia, Siberia. S/EAP/SibE

Cryptocephalus imperialis LAICHTING, 1781

Topolovgrad (WARCHALOWSKI, 1974). New material: vill. Madrets, 24.VI.1980. Distribution: North Spain, France, South Germany Danube basin, Balkan Peninsula, Ukraine, Asia Minor. E/ME

Cryptocephalus labiatus (LINNAEUS, 1761)

Topolovgrad (WARCHALOWSKI, 1974). Distribution: Europe, Asia Minor, Siberia. S/EAP/SibE

* **Cryptocephalus moraei** (LINNAEUS, 1758)

Material: Topolovgrad, V.1990. Distribution: Europe, Caucasus, Asia Minor. E/ME

* **Cryptocephalus ocellatus** DRAPIEZ, 1819

Material: vill. Kostur, V.1990. Distribution: Europe, Caucasus, Asia Minor, Iran, Kazakhstan, West Siberia. S/EAP/SibE

Cryptocephalus prusias SUFFRIAN, 1853

Sakar (GRUEV, TOMOV, 1984). New material: vill. Levka, 200 m, 6.V.1974; vill. Kostur, V.1990; vill. Sladun, V.1990. Distribution: eastern part of the Balkan Peninsula, Asia Minor, Syria, Jordan. M/EM

* **Cryptocephalus quatuordecimmaculatus** SCHNEIDER, 1792

Material: vill. Sladun, V.1990. Distribution: Southeastern Europe. E/SbM/ESbM

Cryptocephalus schaefferi SCHRANK, 1789

Topolovgrad (WARCHALOWSKI, 1974). New material: vill. Levka, 200 m, 6.V.1974; vill. Sladun. Distribution: southern and eastern parts of Europe, from North Spain to the basin of Volga; Asia Minor; West Siberia. S/EAP/SibE

* **Cryptocephalus sericeus** (LINNAEUS, 1758)

Material: vill. Madrets, 24.VI.1980; vill. Levka, V.1990; vill. Ustrem, VI.1989. Distribution: Europe, Asia Minor, Kazakhstan, Siberia, North-West China. S/EAP/SibE

Cryptocephalus trimaculatus ROSSI, 1790

Topolovgrad (WARCHALOWSKI, 1974). Distribution: southern part of Europe, from France and Italy to Hungary and the Balkan Peninsula; Asia Minor, Near East. E/SbM/HSbM

* **Cryptocephalus turcicus** SUFFRIAN, 1847

Material: vill. Sladun, V.1990. Distribution: South Europe from France to Bulgaria; Asia Minor. E/SbM/HSbM

Cryptocephalus villosulus SUFFRIAN, 1847

South Sakar (GRUEV, TOMOV, 1984). New material: vill. Levka, 200 m, 6.V.1974; vill. Sladun, V.1990. Distribution: Bavaria, Czechia, Slovakia, Bulgaria, North Italy, Dalmatia. E/ME

* **Pachybrachis limbatus** (MENETRIES, 1836)

Material: South Sakar, 6.V.1974; vill. Sladun, V.1990. Distribution: Balkan countries, Asia Minor, Syria. E/SbM/ESbM

* **Pachybrachis tessellatus** (OLIVIER, 1791)

Material: South Sakar, 5.VI.1971. Distribution: Southern and Mid Europe, from North Spain to the Caspian Sea. E\ME

EUMOLPINAЕ

Pachnephorus villosus (DUFTSCHMID, 2825)

vill. Balgarin (GRUEV, 1992). Distribution: Submediterranean Europe, Caucasus, Turkey, Iran, Syria. E\SB\MHS\B\M

Pales ulema (GERMAR, 1813)

vill. Levka (GRUEV, 1992: *Eupales ulema*). Distribution: South-East Europe. E\SB\ES\B\M

CHRYSOMELINAE

Chrysolina coerulans (SCRIBA, 1791)

vill. Sinapovo; vill. Hlyabovo (GRUEV, 1992: *Chrysolina modesta coerulans*), vill. Ustrem (GRUEV, 2002). New material: vill. Golyam Manastir, 6.VIII.1989. Distribution: Mid and Eastern Europe, France, Italy, Asia Minor. E\ME

Chrysolina didymata (SCRIBA, 1791)

South Sakar (GRUEV, 1973). New material: Topolovgrad, 9.V.1974. Distribution: Mid and Southern Europe northwards to Alsace and Witterberg, Hungary and Slovakia; Asiatic Turkey, Iran, Turkmenistan. SWAs\SBIn\IT

Chrysolina haemoptera (LINNAEUS, 1758)

vill. Ustrem (GRUEV, 1992). New material: Sakar, 8.V.1971. Distribution: Europe, Caucasus, Asia Minor, Iran. E\ME

Chrysolina herbacea (DUFTSCHMID, 1825)

vill. Balgarin, vill. Levka, vill. Hlyabovo, vill. Ustrem (GRUEV, 1992). above vill. Dositeevo (GRUEV, 2002). New material: vill. Golyam Manastir, 6.VIII.1987. Distribution: Europe, Caucasus, Asia Minor, Iran, Afghanistan, Kazakhstan, Middle Asia, southern part of West Siberia, Pamir, Altai; North India. S\EAP\SSibE

Chrysolina hyperici (FORSTER, 1771)

Topolovgrad (WARCHALOWSKI, 1974: *Chrysomela hyperici*), South Sakar (GRUEV, 1992), vill. Levka, vill. Lisovo, vill. Ovcharovo (GRUEV, 2002). Disattribution: Europe, Caucasus, Asia Minor, northern Kazakhstan, North Africa. E\ME

Chrysolina limbata (FABRICIUS, 1775)

Topolovgrad (WARCHALOWSKI, 1974: *Chrysomela limbata*). Distribution: Europe, Caucasus, Kazakhstan, West Siberia, Mongolia. S\EAP\SSibE

Chrysolina marginata (LINNAEUS, 1758)

vill. Kostur (GRUEV, 1992). New material: North Sakar, 19.V.1990. Distribution: Europe, Caucasus, Asia Minor, Iran, Afghanistan, Kazakhstan, Middle Asia, Siberia (eastwards to Magadan and Khabarovsk), Mongolia, West China, North Africa. S\EAP\TrPal

Chrysolina polita (LINNAEUS, 1758)

vill. Levka, vill. Hlyabovo (GRUEV, 1992). Distribution: Europe, West Siberia, Sakhalien, Mongolia. S\EAP\TrPal

Chrysolina vernalis ottomana (WEISE, 1906)

Topolovgrad (WARCHALOWSKI, 1974: *Chrysomela vernalis*; GRUEV, 1992); Sakar, South Sakar, above vill. Dositeevo (GRUEV, 1992), vill. Lavke, vill. Lisovo (GRUEV, 2002). New material: Sakar, 20.V.1990, 19.VIII.1990. Distribution: Turkey (European and Asiatic), Balkan Peninsula (Bulgaria, North Greece, Macedonia, Dalmatia, Bosnia-Herzegovina, Montenegro, Albania). SWAs\SBIn\AsM

Chrysomela populi LINNAEUS, 1758

Sakar (GRUEV, 1992). Distribution: Palaeartic. S\EAP\HPal

Chrysomela vigintipunctata (SCOPOLI, 1763)

vill. Ustrem, vill. Kostur, vill. Levka (GRUEV, 1992), vill. Lisovo (GRUEV, 2002). Distribution: Europe, Palaeartic Asia (incl. Japan). S\EAP\TrPal

Colaphus sophiae (SCHALLER, 1783)

Topolovgrad (WARCHALOWSKI, 1974: *Colaphellus sophiae*); vill. Levka, vill. Sinapovo, vill. Kostur (GRUEV, 1992: *Colaphellus sophiae*), vill. Ustrem (GRUEV, 2002). Distribution: Europe, Asia Minor. E\ME

Entomoscelis suturalis WEISE, 1882

above vill. Balgarin (GRUEV, 2002). Distribution: South-East Europe, Georgia, Azerbaijan, Turkey, Iraq, Iran, China. SWAs\SBIn\IT

Gastrophysa polygoni (LINNAEUS, 1758)

Sakar, vill. Levka, vill. Kostur (GRUEV, 1992), vill. Lisovo, vill. Ustrem, vill. Balgarin, above vill. Dositeevo, vill. Ovcharovo (GRUEV, 2002). Distribution: Europe, Caucasus, Asia Minor, Kazakhstan, Middle Asia, Siberia, Mongolia, China, Korea, North Africa. S\EAPl\HPal

Gonioctena fornicata (BRUEGGEMANN, 1873)

vill. Ustrem, vill. Sinapovo (GRUEV, 1992). New material: above vill. Dositeevo, 3.VII.1997; vill. Balgarin, 10.V.1997; vill. Varbovo, 16.V.1997. Distribution: South and South-East Europe, southern parts of Mid Europe, Asia Minor. E\SbM\HSbM

Leptinotarsa decemlineata (SAY, 1824)

Introduced from America. Colorado beetle.

* **Phaedon pyritosus** (ROSSI, 1792)

Material: vill. Balgarin 4.V.1070. Distribution: Europe, Caucas, Asia Minor, Kazakhstan, Middle Asia, North Africa. S\EAPl\SibE

Phratora laticollis (SUFFRIAN, 1851)

vill. Levka (GRUEV, 1992). Distribution: Europe and Palaeartic Asia. S\EAPl\TrPal

Plagioderma versicolora (LAICHTING, 1781)

Sakar (GRUEV, 1992), vill. Ustrem, vill. Lisovo, vill. Kostur, vill. Dositeevo (GRUEV, 2002). New material: vill. Levka, V.1990. Distribution: Palaeartic; India, Taiwan. S\EAPl\HPal

Prasocuris junci (BRAHM, 1790)

South Sakar, Topolovgrad (GRUEV, 1992), vill. Ovcharovo (GRUEV, 2002). Distribution: Europe, Caucasus, North Africa. E\ME

GALERUCINAE

* **Agelastica alni** (LINNAEUS, 1758)

Material: Topolovgrad, V.1990; vill. Levka, V.1990. Distribution: Europe, Caucasus, Asia Minor. E\ME

* **Euluperus major** WEISE, 1886

Material: above vill. Dositeevo, 26.IV.1987. Distribution: Rumania, Bulgaria, Turkey. E\SbM\EsbM

* **Galeruca interrupta circumdata** DUFTSCHMID, 1825

Material: vill. Levka, V, VII.1990. Distribution: basin of Danube, Balkan Peninsula, Ukraine. E/SbM/EsbM

* **Galeruca rufa** GERMAR, 1824

Material: Sakar, V.1990. Distribution: South France, Italy, basin of Danube, Balkan Peninsula, Ukraine, basin of Volga. E/SbM/HSbM

* **Galerucella lineola** (FABRICIUS, 1781)

Material: South Sakar, 6.V.1974; vill. Levka, V.1990. Distribution: from Ireland to Japan. S\EAPl\TrPal

* **Galerucella pusila** (DUFTSCHMID, 1825)

Material: Sakar, 13.V.1971; South Sakar, 6.V.1974; vill. Levka, V.1990; vill Ustrem, VIII.1989. Distribution: from Catalonia and the British Isls. to Siberia and Mongolia. S\EAPl\SibE

* **Nymphius lydius** (WEISE, 1886)

Material: vill. Sladun, 20.V.1990. Distribution: South-East Bulgaria, Caucasus countries, Asia Minor. E\SbM\ESbM

Phyllobrotica adusta (CREUTZER, 1799)

Topolovgrad (WARCHALOWSKI, 1974). Distribution: Mid and South-East Europe. E\ME

* **Xanthogaleruca luteola** (O. F. MUELLER, 1766)

Material: above vill. Dositeevo, 26.IV.1987. Distribution: Europe, Caucasus, Asia Minor, Middle Asia, Iran, North Africa. SWAs\Sbln

ALTICINAE

Aeschrocnemis serbica (KUTSCHERA, 1860)

vill. Levka (GRUEV, 1992; *Derocrepis serbica*). Distribution: Bulgaria, Greece, Dalmatia, Serbia, Croatia, South Rumania, Crimea, Asia Minor. E\SbM\ESbM

Altica lythri AUBE, 1843

above vill. Dositeevo, vill. Levka (GRUEV, 1992). Distribution: Europe, Turkey. E\ME

Altica oleracea (LINNAEUS, 1758)

Sakar, vill. Sinapovo, vill. Ustrem (GRUEV, 1992), Topolovgrad, vill. Ovcharovo, vill. Levka, vill. Balgarin, vill. Hlyabovo (GRUEV, 2002). New material: above vill. Dositeevo, 3.VII.1997., vill. Balgarska polyana, 30.IX.2003. Distribution: Europe, Palaeartic Asia. S\EAPl\TrPal

Aphthona flava GULLEBEAU, 1895

above vill. Dositeevo, vill. Varbovo, vill. Hlyabovo (GRUEV, 2002). Distribution: Poland, Czechia, South-East Europe, westwards to Italy. EIME

Aphthona lutescens (GYLLENHAL, 1808)

vill. Levka (GRUEV, 1992), vill. Kostur (GRUEV, 2002). Distribution: Europe, Palaeartic Asia, eastwards to Transbaikalia (Buryatiya); Yemen. S\EAPl\SibE

Aphthona semicyanea ALLARD, 1859

Above vill. Dositeevo (GRUEV, 1992). Distribution: Mid, South and East Europe, Caucasus, Turkey, Iran, Syria, Israel, Kazakhstan, Middle Asia, West and South Siberia, Mongolia. S\EAPl\SibE

Aphthona venustula KUTSCHERA, 1861

vill. Kostur, vill. Ustrem (GRUEV, 1992), vill. Lisovo, vill. Levka (GRUEV, 2002). Distribution: Europe, Caucasus, Asia Minor. EIME

Argopus bicolor FISCHER VON WALDHEIM, 1824

Sakar (ГРЪЕВ, ТОМОБ, 1986), vill. Levka (GRUEV, 1992). Distribution: South-East Poland, Slovakia, Ukraine, Hungary, Rumania, Serbia, Croatia, Bulgaria, Caucasus. EIME

Chaetocnema aridula (GYLLENHAL, 1827)

Topolovgrad, vill. Sinapovo, vill. Levka (GRUEV, 1992), vill. Balgarin, vill. Dositeevo, vill. Lisovo, vill. Ustrem (GRUEV, 2002). Distribution: Europe, Palaeartic Asia (excl. Japan), Algeria. S\EAPl\HPal

Chaetocnema breviuscula (FALDERMANN, 1837)

vill. Sinapovo (GRUEV, 1992). Distribution: East and South-East Europe, Caucasus, Asia Minor, Iran, Iraq, Afghanistan, Kazakhstan, southern part of West Siberia, North and East China, Korea. S\EAPl\TrPal

Chaetocnema chlorophana (DUFTSCHMID, 1825)

vill. Levka, vill. Hlyabovo, vill. Ustrem (GRUEV, 1992), vill. Lisovo (GRUEV, 2002). Distribution: Mid, South and East Europe, Caucasus, Turkey, Iraq, Syria, Israel, North-West Africa. EIME

Chaetocnema concinna (MARSHAM, 1802)

vill. Ustrem, vill. Kostur (GRUEV, 1992), vill. Dositeevo, vill. Lisovo, vill. Levka (GRUEV, 2002). Distribution: Europe, Palaeartic Asia (excl. Japan), Algeria. S\EAPl\HPal

Chaetocnema conducta (MOTSCHULSKY, 1838)

Sakar, vill. Levka (GRUEV, 1992), vill. Dositeevo, vill. Ustrem (GRUEV, 2002). Distribution: Mid and South Europe, Caucasus, Asia Minor, Syria, Israel, Transcaspia, Iran, Mid Asia, whole Africa. SWAs\Sbn\IT

Chaetocnema coyei (ALLARD, 1863)

Sakar (ГРЪЕВ, ТОМОБ, 1986), vill. Ustrem, vill. Balgarin, vill. Hlyabovo, vill. Lisovo, vill. Varbovo, vill. Dositeevo (GRUEV, 2002). Distribution: South Europe, Caucasus, Asia Minor, Iran, Iraq, Syria, Israel, Jordan, Cyprus. E\Sb\MESbM

Chaetocnema hortensis (GEOFFROY, 1785)

Sakar, vill. Cherepovo, vill. Ustrem (GRUEV, 1992). New material: vill. Ovcharovo, 27.IV.1997; vill. Golyam Manastir, 10.VIII.1987. Distribution: Europe, Palaeartic Asia (excl. Japan), Madeira, Saudi Arabia, North-West Africa, Chad, Sudan. S\EAPl\HPal

Chaetocnema montenegrina HEIKERTINGER, 1912

vill. Kostur (GRUEV, 1992), dam "Ovcharovo", vill. Levka (GRUEV, 2002). Distribution: South-East Europe, Armenia, Asia Minor, Turkmenistan, Iran, Afghanistan, Middle Asia. SWAs\Sbn\IT

Chaetocnema picipes STEPHENS, 1831

vill. Ustrem (GRUEV, 1992: *Chaetocnema heikertingeri*). Distribution: Europe, Caucasus, Asia Minor, Iran, Kazakhstan, Middle Asia, China, Siberia, Mongolia, Korea. S\EAPl\TrPal

Chaetocnema scheffleri (KUTSCHERA, 1864)

vill. Levka, vill. Sinapovo (GRUEV, 1992), vill. Balgarin, vill. Ovcharovo, vill. Varbovo (GRUEV, 2002). Distribution: Mid and South Europe, Caucasus, Asia Minor, Iran, Iraq, Israel, North-West Africa. E\Sb\MHSbM

Chaetocnema semicoerulea (KOCH, 1803)

South Sakar (GRUEV, 2002). Distribution: Mid and South Europe, Caucasus, Asia Minor, Kazakhstan, Middle and South Siberia eastwards to the Baikal area. S\EAPl\SibE

Chaetocnema tibialis (ILLIGER, 1807)

Sakar, Topolovgrad, vill. Levka, vill. Kostur, vill. Sinapovo (GRUEV, 1992), vill. Dositeevo, dam "Ovcharovo", vill. Balgarin, vill. Lisovo, vill. Hlyabovo, vill. Ustrem (GRUEV, 2002). Distribution: Europe, Palaeartic Asia eastwards to the Baikal area; North Africa. S\EAPl\SibE

Crepidodera aurata (MARSHAM, 1802)

Topolovgrad, vill. Levka (GRUEV, 1992), vill. Lisovo (GRUEV, 2002). Distribution: Europe, Palaeartic Asia (excl.

Japan), Morocco. S\EAPl\HPal

Crepidodera plutus (LATREILLE, 1804)

Sakar, vill. Sinapovo (GRUEV, 1992), vill. Dositeevo (GRUEV, 2002). New material: South Sakar, 6.V.1974, vill. Golyam Manastir, 24.V.1988. Distribution: Europe, Palaerctic Asia (incl. Japan). S\EAPl\TrPal

Dibolia cryptocephala (KOCH, 1803)

summit Vishegrad (GRUEV, 1992). Distribution: Mid and South Europe, Caucasus, Kazakhstan, West Siberia. S\EAPl\SibE

Dibolia depressiuscula (LETZNER, 1847)

Topolovgrad (WARCHALOWSKI, 1974). Distribution: Europe, Caucasus, Daghestan, Turkey, Jordan, Kazakhstan, Siberia eastwards with the Baikal area and Tuvinia. S\EAPl\SibE

Dibolia occultans (KOCH, 1803)

vill. Hlyabovo, vill. Ustrem (GRUEV, 1992). Distribution: Europe, Caucasus, Asia Minor, North-West Africa. E\ME

Dibolia schillingii (LETZNER, 1847)

vill. Sladun (GRUEV, 1992), vill. Levka (GRUEV, 2002). Distribution: Mid and South Europe, Caucasus, Asia Minor, Kazakhstan. E\ME

Dibolia timida (ILLIGER, 1807)

Above vill. Dositeevo, vill. Levka (GRUEV, 1992). New material: dam "Ovcharovo", 27.IV.1997. Distribution: Mid and South Europe, North-West Africa. E\ME

Epitrix atropae FOU DRAS, 1860

above vill. Dositeevo, vill. Varbovo (GRUEV, 2002). Distribution: Mid and South Europe, Caucasus, Asia Minor, Algeria. E\ME

Epitrix intermedia FOU DRAS, 1860

vill. Sinapovo (GRUEV, 1992). Distribution: Mid and South Europe, Caucasus, Asia Minor. E\ME

Epitrix pubescens (KOCH, 1803)

vill. Sinapovo (GRUEV, 1992), vill. Ustrem (GRUEV, 2002). Distribution: Europe, Azores, Caucasus, Asia Minor, Cyprus, Israel, Iran, Kazakhstan, Middle Asia, West Siberia. S\EAPl\SibE

Longitarsus aeneicollis (FALDERMANN, 1837)

Topolovgrad (WARCHALOWSKI, 1974: *Longitarsus suturalis*), vill. Kostur (GRUEV, 1992: *Longitarsus suturalis*), vill. Levka, vill. Lisovo (GRUEV, 2002). Distribution: Europe, Caucasus, Asia Minor, Iran, Iraq, Syria, Lebanon, Kazakhstan, Middle Asia, North-West Africa. E\ME

Longitarsus albineus (FOU DRAS, 1860)

Topolovgrad (ГРЪЕВ, ТОМОБ, 1986), vill. Levka, vill. Lesovo (GRUEV, 2002). Distribution: southern part of Mid Europe, South Europe, Caucasus, Asia Minor, Cyprus, Iran, Iraq, Israel, Afghanistan, Middle Asia. SWAs\Sbln\IT

Longitarsus atricillus (GYLLENHAL, 1813)

vill. Levka, vill. Ustrem (GRUEV, 1992). Distribution: Europe, Azerbaijan, Daghestan, Cyprus, Transcaspia, Middle Asia, Siberia (to Magadan), North Africa. S\EAPl\TrPal

Longitarsus ballotae (MARSHAM, 1802)

Topolovgrad, vill. Sinapovo (GRUEV, 1992). Distribution: West, Mid and South and East Europe, Caucasus, Asia Minor, Iran, Cyprus, Syria, Israel, Jordan, Kazakhstan, Mongolia, Yemen, North-West Africa. S\EAPl\SSibE

Longitarsus bertii LEONARDI, 1973

Sakar, vill. Kostur, vill. Levka (GRUEV, 1992), vill. Ustrem (GRUEV, 2002). Distribution: Mid, South-East and East Europe, Italy, Caucasus, Asia Minor, Iran, Syria, Turkmenistan, Israel, Cyprus. E\ME

Longitarsus brisouti HEIKERTINGER, 1912

Topolovgrad (WARCHALOWSKI, 1974). Distribution: Mid, South-East and South Europe, Turkey. E\ME

Longitarsus corynthius (REICHE, 1858) s. str.

Above vill. Dositeevo (GRUEV, 1992), Sakar (GRUEV, 2002). Distribution: South-East Europe (Albania, Bosnia-Herzegovina, Dalmatia, Greece, Macedonia, Bulgaria), Malta, Cyprus, Rhodos. M\EM

Longitarsus fallax WEISE, 1888

Sakar (GRUEV, 1973 a: *Longitarsus nitens*). Distribution: South and South-East Europe, Caucasus, Asia Minor, Transcaspia, Iran, Afghanistan, Iraq, Israel, Kazakhstan, Middle Asia, North-East Africa. SWAs\Sbln\IT

Longitarsus lateripunctatus personatus WEISE, 1893

Topolovgrad (ГРЪЕВ, ТОМОБ, 1986): *Longitarsus lateripunctatus* var. *personatus*). Distribution: Mid, South and East Europe, Caucasus, Turkey, Rhodos, Cyprus, Israel. E\ME

Longitarsus linnaei (DUFTSCHMID, 1825)

Topolovgrad (WARCHALOWSKI, 1974); vill. Kostur, vill. Levka (GRUEV, 1992), vill. Ustrem (GRUEV, 2002). Distribution: Mid and South Europe, Caucasus, Asia Minor, Iran, Syria, Israel. E\ME

Longitarsus luridus (SCOPOLI, 1763)

Sakar, vill. Balgarin (GRUEV, 1992), dam "Ovcharovo", vill. Levka, vill. Ustrem (GRUEV, 2002). Distribution: Europe, Palaearctic Asia eastwards to Vladivostok. S\EAPlTrPal

* **Longitarsus lycopi** (FOUDRAS, 1860)

Material: vill. Sinapovo: 24.V.1988. Distribution: Europe, Caucasus, Asia Minor, Iran, Kazakhstan, Middle Asia, Syria, Israel, Jordan, Saudi Arabia, Yemen, North Africa, Chad. E\ME

Longitarsus melanocephalus (DE GEER, 1775)

Topolovgrad (GRUEV, 1992), dam "Ovcharovo" (GRUEV, 2002). Distribution: Europe, Palaearctic Asia eastwards to Transbaikalia. S\EAPlTrPal

Longitarsus nasturtii (FABRICIUS, 1792)

Topolovgrad (WARCHALOWSKI, 1974). Distribution: Europe, Palaearctic Asia (excl. Japan). S\EAPlTrPal

Longitarsus niger (KOCH, 1803)

vill. Kostur, vill. Ustrem, summit Vishegrad (GRUEV, 1992), dam "Ovcharovo", vill. Varbovo, (GRUEV, 2002). Distribution: Europe, Caucasus, Asia Minor. E\ME

Longitarsus nigrofasciatus (GOEZE, 1777)

Sakar, above vill. Dositeevo (GRUEV, 1992). Distribution: Europe, Caucasus, Asia Minor, Iran, Israel, Jordan, Cyprus, Kazakhstan, Middle Asia, West Siberia, North-West Africa. S\EAPlSibE

Longitarsus parvulus (PAYKULL, 1799)

vill. Ustrem (GRUEV, 1992), dam "Ovcharovo" (GRUEV, 2002). Distribution: Europe, Caucasus, Asia Minor, Israel, Cyprus, West and Middle Siberia, North-West Africa, Macaronesia. S\EAPlSibE

Longitarsus pellicidus (FOUDRAS, 1860)

above vill. Dositeevo, vill. Kostur, vill. Levka (GRUEV, 1992), vill. Hlyabovo (GRUEV, 2002). New material: vill. Balgarska polyana, 30.IX.2003. Apean: Distribution: Europe, Palaearctic Asia eastwards to Sayany Mts. and Mongolia; India. S\EAPlSibE

Longitarsus pinguis WEISE, 1888

Topolovgrad (WARCHALOWSKI, 1974). Distribution: Mid and South-East Europe, Italy, Bulgaria, Greece (? North), Armenia, Turkey, Syria, Israel, Jordan. E\ME

Longitarsus pratensis (PANZER, 1794)

summit Vishegrad (GRUEV, MERKL, 1992), vill. Levka (GRUEV, 1992), dam "Ovcharovo", above vill. Dositeevo (GRUEV, 2002). Distribution: Whole Europe, Palaearctic Asia eastwards to Middle Asia. E\ME

Longitarsus scutellaris (REY, 1874)

Sakar (GRUEV, 1992). Distribution: Europe, Caucasus, Asia Minor, Siberia, Mongolia. S\EAPlSibE

Longitarsus tabidus (FABRICIUS, 1775)

above vill. Dositeevo, vill. Levka, vill. Hlyabovo (GRUEV, 1992). Distribution: Europe, Caucasus, Asia Minor, Cyprus, Israel, Iran, Afghanistan, Kazakhstan, Middle Asia, Mongolia. S\EAPlSibE

Mantura cylindrica MILLER, 1880

vill. Sladun (GRUEV, 1992). Distribution: Bulgaria (Sakar Mountain), Greece (Ionian Isls. and Crete), South Croatia, Sicily, Asiatic Turkey (Amasia). M\EM

Mantura rustica (LINNAEUS, 1766)

Topolovgrad (WARCHALOWSKI, 1974). Distribution: Europe, Palaearctic Asia (excl. Japan), Pakistan. S\EAPlTrPal

Neocrepidodera ferruginea (SCOPOLI, 1763)

vill. Sladun (GRUEV, 1992: *Asiorestia ferruginea*), vill. Levka (GRUEV, 2002). Distribution: Europe, Caucasus, Turkey, Iran. E\ME

Neocrepidodera transversa (MARSHAM, 1802)

vill. Hlyabovo (GRUEV, 1992: *Asiorestia transversa*), vill. Levka, vill. Lisovo (GRUEV, 2002).

Distribution: Europe, Caucasus, Asia Minor, Cyprus. E\ME

Phyllotreta atra (FABRICIUS, 1775)

Sakar, above vill. Dositeevo, vill. Levka, vill. Ustrem (GRUEV, 1992), Toolovgrad, vill. Balgarin, vill. Varbovo, vill. Ovcharovo, vill. Sinapovo (GRUEV, 2002). Distribution: Europe, Palaearctic Asia (excl. Japan), Yemen. S\EAPlHPal

Phyllotreta corrugata REICHE, 1858

Topolovgrad (GRUEV, 1992). Distribution: South and South-East Europe, Caucasus, Asia Minor, Cyprus, Iraq, Israel, Iran, Afghanistan, Kazakhstan, Middle Asia, North Africa. SWAs\Sbln\IT

Phyllotreta cruciferae (GOEZE, 1777)

Topolovgrad, above vill. Dositeevo, vill. Ustrem (GRUEV, 1992). Distribution: Europe, Caucasus, Asia Minor, Iran, Afghanistan, Israel, Jordan, Kazakhstan, Middle Asia, West Siberia, Sayan Mts., Mongolia, India, North

Africa, Ethiopia, Sudan. S\EAPl\SibE

Phyllotreta nemorum (LINNAEUS, 1758)

South Sakar (GRUEV, 1992), Topolovgrad (GRUEV, 2002). Distribution: Europe, Palaeartic Asia (excl. Japan). S\EAPl\TrPal

Phyllotreta nigripes (FABRICIUS, 1775)

Sakar, vill. Balgarin, above vill. Dositeevo, vill. Sinapovo, vill. Levka (GRUEV, 1992), vill. Ovcharovo, vill. Varbovo (GRUEV, 2002). New material: Topolovgrad, 1.IV.1988, vill. Lisovo, 20.V.1990. Distribution: Europe, Palaeartic Asia eastwards to North-West Kazakhstan; North-West Africa. E\ME

Phyllotreta nodicornis (MARSHAM, 1802)

Sakar, summit Vishegrad (GRUEV, 1992). Distribution: Mid, West and South Europe, Caucasus, Turkey; North India. E\ME

Phyllotreta ochripes (CURTIS, 1837)

vill. Levka, vill. Kostur (GRUEV, 1992). New material: vill. Lisovo, 20.V.1990. Distribution: Europe, Caucasus, Transcaucasus, Turkey, Iran, Siberia, Russian Far East. S\EAPl\TrPal

Phyllotreta procera (REDTENBACHER, 1849)

Topolovgrad (MOHR, 1969). Distribution: Mid and South Europe, Caucasus, Asia Minor, Cyprus, Syria, Israel, Jordan, Iran, Middle Asia, North-West Africa, Sudan, Tanzania. SWAs\Sbln\IT

Phyllotreta variipennis (BOIELDIEU, 1859)

above vill. Dositeevo (GRUEV, 1992). Distribution: South and South-East Europe, Mediterranean, Canary Isls., Iran, Israel, North-West Africa, Macaronesia, Sakhara. M\HM

Phyllotreta vittula (REDTENBACHER, 1849)

vill. Balgarin, above vill. Dositeevo, vill. Sinapovo, vill. Kostur (GRUEV, 1992), Topolovgrad, vill. Ovcharovo, vill. Balgarin, vill. Ustrem, vill. Levka (GRUEV, 2002). New material: vill. Lisovo, 20.V.1990. Distribution: Europe, Palaeartic Asia (excl. Japan). S\EAPl\TrPal

Podagrica fuscicornis (LINNAEUS, 1766)

South Sakar (GRUEV, 1992). Distribution: Mid and South Europe, Caucasus, Asia Minor, Syria, Israel, Lebanon, North-West Africa, Canary Isls. E\ME

Podagrica maivae (ILLIGER, 1807)

Sakar, vill. Sinapovo, vill. Levka (GRUEV, 1992), vill. Ovcharovo, vill. Balgarin (GRUEV, 2002). Distribution: Mid and South Europe, Caucasus, Asia Minor, Iran, Iraq, Syria, Israel, Jordan, Cyprus. E\ME

Podagrica menetriesi (FALDERMANN, 1837)

vill. Hlyabovo (GRUEV, 1992). Distribution: Mid and South Europe, Caucasus, Asia Minor, Rhodos, Iraq, Kazakhstan, Middle Asia, West China. SWAs\Sbln\IT

Psylliodes attenuatus (KOCH, 1803)

Topolovgrad (WARCHALOWSKI, 1974). Distribution: Europe, Palaeartic Asia. S\EAPl\TrPal

Psylliodes chalcomerus (ILLIGER, 1807)

Sakar (GRUEV, 1992). Distribution: Europe, Palaeartic Asia eastwards to Kazakhstan and West Siberia; North Africa. S\EAPl\HPal

Psylliodes chrysocephalus (LINNAEUS, 1758)

vill. Madrets (GRUEV, 1992). Distribution: Europe, Caucasus, Asia Minor, Near East, North-West Africa. E\ME

Psylliodes circumdatus (REDTENBACHER, 1842)

Topolovgrad (WARCHALOWSKI, 1974), vill. Sinapovo, vill. Ustrem, above vill. Dositeevo (GRUEV, 1992). Distribution: Mid and South Europe, Caucasus, Asia Minor, Near East, Iran, North Africa. E\ME

Psylliodes kiesenwetteri KUTSCHERA, 1864

Topolovgrad (WARCHALOWSKI, 1974: *Psylliodes glabra*; ГРУЕВ, ТОМОВ, 1986). Distribution: South-East Europe, Italy, Austria, Asia Minor. E\SbM\ESbM

Psylliodes luteolus (O.F.MUELLER, 1776)

vill. Sladun (GRUEV, 1992). New material: vill. Levka, V.1990. Distribution: Mid and South Europe, Caucasus, Transcaucasus, Asia Minor, Cyprus, Iran, Syria, Lebanon, North-West Africa. E\ME

Psylliodes napi (FABRICIUS, 1792)

vill. Sladun (GRUEV, 1992), vill. Levka (GRUEV, 2002). Distribution: Europe, Palaeartic Asia (excl. Japan), South-West Africa. S\EAPl\HPal

Hispa atra LINNAEUS, 1767

Sakar, vill. Balgarin, above vill. Dositeevo, vill. Sladun (GRUEV, 1992), vill. Varbovo (GRUEV, 2002). New material: vill. Ovcharovo, 28.IV.1997. Distribution: Europe, Palaearctic Asia eastwards to North China; North Africa. S\EAP\SibE

CASSIDINAE

Cassida canaliculata LAICHARTING, 1781

vill. Kostur (GRUEV, 1992). New material: Sakar, 19.V.1990. Distribution: Europe, Caucasus, Kazakhstan. S\EAP\SibE

Cassida denticollis SUFFRIAN, 1844

vill. Sinapovo (GRUEV, 1992). Distribution: Europe, Asia from Kazakhstan to Siberia and Mongolia. S\EAP\SibE

Cassida fastuosa SCHALLER, 1783

vill. Balgarin (GRUEV, 1992). Distribution: Mid, South and East Europe, Caucasus, Kazakhstan, Middle Asia, West Siberia. S\EAP\SibE

Cassida inquinata BRULLE, 1832

vill. Kostur (GRUEV, 1992). Distribution: Mid and East Europe, Mediterranean, Caucasus, Turkmenistan, North-West Africa. E\ME

Cassida margaritacea SCHALLER, 1783

Sakar (ANGELOV ET AL., 1964). Distribution: Europe, Caucasus, Asia Minor, Siberia eastwards to the Baikal area. S\EAP\SibE

Cassida nebulosa LINNAEUS, 1758

Vill. Varbovo (GRUEV, 2002). Distribution: from the British Isls to Japan. S/EAP/TrPal

Cassida prasina LLIGER, 1798

Topolovgrad, vill. Levka, vill. Sinapovo, above vill. Dositeevo (GRUEV, 1992), vill. Varbovo, vill. Kostur (GRUEV, 2002). Distribution: Europe, Asia Minor, Kazakhstan, Siberia, North Cina. S\EAP\SibE

Cassida rubiginosa MUELLER, 1798

vill. Sinapovo, vill. Kostur, above vill. Dositeevo, vill. Levka (GRUEV, 1992), vill. Ustrem (GRUEV, 2002). Distribution: Palaearctis, Taiwan. S\EAP\HPal

Cassida seladonia GYLLENHAL, 1827

Sakar (GRUEV, 1971). Distribution: Mid, South and East Europe, North Caucasus, North-West Africa. E\ME

Cassida subferruginea SCHRANK, 1776

South Sakar, vill. Levka (GRUEV, 1992), vill. Varbovo, vill. Ovcharovo (GRUEV, 2002). Distribution: Palaearctis. S\EAP\TrPal

Cassida vibex LINNAEUS, 1767

vill. Levka (GRUEV, 1992). Distribution: Europe, Palaearctic Asia. S\EAP\TrPal

Cassida viridis LINNAEUS, 1758

vill. Levka, vill. Ustrem (GRUEV, 1992), vill. Kostur (GRUEV, 2002). Distribution: Palaearctis. S\EAP\HPal

Zoogeography

The zoogeographical belonging of the taxa (see Faunistic list) are presented mainly after the workings out of GRUEV (1988, 1995, 2000), GRUEV (in: GRUEV, KUZMANOV, 1994, 1999) and GRUEV, BECHEV (2000): **Siberian complex** – 75 (Siberoeuropean – 34, Transpalaearctic – 25, Holopalaearctic – 13, Southsiberoeuropean – 3), **European complex** – 68 (Mideuropean – 45, Eastsubmediterranean – 16, Holosubmediterranean – 7), **Mediterranean complex** – 4 (Eastmediterranean – 3, Holomediterranean – 1), **Southwestasiatic complex** – 15 (Subiranian – 4, Irano-Turanian – 9, Asia Minor – 2). The single endemic is *Smaragdina graeca* from Bulgaria and Greece

References

- ANGELOV, P., GRUEV, B., ТОМОВ, V., 1964 [АНГЕЛОВ, П., ГРУЕВ, Б. ТОМОВ, В. 1965]. Нови листояди (*Chrysomelidae*, *Coleopt.*) за фауната на България. - Научни труд. на ВПИ, Пловдив, Биол., 3, 2: 139-150 [Summary in German: "Neue Chrysomelidenarten über die Fauna bulgariens". - Trav. Sci. Ecole Normale Superieure - Plovdiv, Bulgaria, 11, Biol., 2: 83-85]
- GRUEV, B., 1971. III. Beitrag zu *Cassidinae* (*Col. Chrysom.*) in Bulgarien. - Mitt. Deutsch. Ent. Ges., 30, 4: 42-44
- GRUEV, B., 1973. Einige Daten über zwei neue für die Fauna Bulgariens Arten der Gattung *Chrysomela* L. (*Coleoptera*, *Chrysomelidae*). - Natura. Ecole Norm. Super., Plovdiv, Biol., 6,1: 133-136
- GRUEV, B., 1973 a. Neue Angaben über die Systematik und Verbreitung einiger paläarktischen Arten der Gattung *Longitarsus* LATR. mit Beschreibung einer neuen Arten aus Bulgarien (*Coleoptera*, *Chrysomelidae*). - Trav. Sci. Univ. Plovdiv, Biol., 11, 5: 105-124
- GRUEV, B., 1988 [Груев, Б., 1988]. General biogeography. – Sofia, "Nauka I Izkustvo". 396 pp. [Обща биогеография. – С., "Наука и Изкуство". 396 с.]
- GRUEV, B., 1992. Geographical distribution of the leaf beetle subfamilies *Lamprosomatinae*, *Eumolpinae*, *Chrysomelinae*, *Alticinae*, *Hispinae* and *Cassidinae* (*Coleoptera: Chrysomelidae*) on the Balkan Peninsula. - Plovdiv University Press. 510 pp.
- GRUEV, B., 1995. About the Mediterranean faunistic complex in Bulgaria. – Ann. Univ. Sofia, Fac. Biol., 1, Zoology, 86-87: 75-82
- GRUEV, B., 2000 [Груев, Б., 2000]. About the Submediterranean zone of the Palaearctic realm and the Submediterranean faunistic element in Bulgaria. – Trav. Sci. Univ. Plovdiv, 36, Animalia, 6: 73-94 [За Субмедитеранската биотична зона в Палеарктика и Субмедитеранския фаунистичен елемент в България]
- GRUEV, B. 2002. New distributional data about some leaf beetles (*Coleoptera*, *Chrysomelidae: Eumolpinae*, *Chrysomelinae*, *Alticinae*, *Hispinae*, *Cassidinae*) in th Balkan Peninsula. – Trav. Sci. Univ. Plovdiv, 38, Animalia, 6: 17-34
- GRUEV, B., ВЕЧЕВ, D., 2000 [Груев, Б., Бечев, Д., 2000]. Zoogeographical belonging of the leaf beetle species of *Lamprosomatinae*, *Eumolpinae*, *Chrysomelinae*, *Alticinae*, *Hispinae* and *Cassidinae* (*Coleoptera: Chrysomelidae*) and their distribution in the biogeographical regions of Bulgaria. – Trav. Sci. Univ. Plovdiv, Bulgaria, 36, Animalia, 6: 5-34 [Зоогеографска принадлежност на видоветелистояди от подсемействата *Lamprosomatinae*, *Eumolpinae*, *Chrysomelinae*, *Alticinae*, *Hispinae* и *Cassidinae* (*Coleoptera: Chrysomelidae*) и разпределението им в биогеографските райони на България]
- GRUEV, B., KUZMANOV, B., 1994 [Груев, Б., Кузманов, Б., 1994]. General biogeography. – Sofia, "St. Kliment Ohridski", 498 pp. [Обща биогеография. – С., Унив. Изд. "Св. Климент Охридски". 498 с.]
- GRUEV, B., KUZMANOV, B. 1999 [Груев, Б., Кузманов, Б., 1999]. General biogeography. – Plovdiv University Press. 344 pp. [Обща биогеография. – Пловдивско университетско издателство, 344 с.]
- GRUEV, B., MERKL, O., 1992. To the geographic distribution of the *Longitarsus pratensis*-

- group (*Coleoptera, Chrysomelidae: Alticinae*). - Folia Ent. Hung., 52: 15-20
- GRUEV, B., ТОМОВ, V. 1986 [ГРУЕВ, Б., ТОМОВ, В. 1986]. *Coleoptera, Chrysomelidae. 2.* - In: Fauna bulgaricae, 16, Acad. Sci. Bulg., Sofia. 388 pp. [*Coleoptera, Chrysomelidae. 2.* - в: Фауна на България, 16. 388 с.]
- GRUEV, B., ТОМОВ, V., 1998. *Coleoptera: Chrysomelidae*, in : Catalogus faunae bulgaricae. Sofia, Pensoft. 160 pp.
- МОHR, К.-Н., 1969. Beitrag zur Chrysomelidenfauna Bulgariens. - Beitr. Entomol., 19, 3: 389-394
- ТОМОВ, V. 1970 [ТОМОВ, В. 1970]. Принос към фауната на листоядите от род *Labidostomis* REDT. в България (*Chrysomelidae, Col.*). - Научни трудове на ВПИ - Пловдив, 8, Биол., 3: 155-159 [Summary in English: "A contribution on the genus *Labidostomis* REDT. in Bulgaria (*Chrysomelidae, Col.*)". - Trav. Sci. Ecole Normale Superieure - Plovdiv, Bulgarie, 8, Biol., 3: 155-159]
- WARCHALOWSKI, A., 1974. Übersicht der Blattkäfer Bulgariens (*Coleoptera, Chrysomelidae*). - Pol. Pis. Ent., 44, 3: 473-542

ЛИСТОЯДИТЕ (*COLEOPTERA: CHRYSOMELIDAE*) НА САКАР ПЛАНИНА

Благой А. Груев

Катедра Зоология, Пловдивски университет "Паисий Хилендарски",
ул. Цар Асен № 24, 4000 Пловдив

(Резюме)

Съобщени са фаунистични и зоогеографски данни за 164 таксона, 42 от които се отбелязват за първи път за фауната на Сакар планина. Включени са нови материали за 27 таксона. Листоядите принадлежат на 4 зоогеографски комплекси: Сибирски – 75, Европейски – 68, Югозападноазиатски – 15 и Медитерански – 4. Балкански ендемит е *Smaragdina graeca*.