

Научни трудове на ПУ, <i>Animalia</i>	Год./An.	Том/Vol.	Кн./Fasc.	с./pp.
Trav. Sci. Univ. Plovdiv, <i>Animalia</i>	2004	40	6	97–114

**THE LEAF BEETLES (INSECTA: COLEOPTERA:
CHRYSOMELIDAE) OF THE RILA MOUNTAIN (BULGARIA).
FAUNA AND ZOOGEOGRAPHY**

Blagoy A. Gruev

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

Abstract. Faunistic data about 187 taxa of Chrysomelidae in Rila Mountain (Bulgaria) are given. Each of the taxa is zoogeographically classified.

Key words: Insecta, Coleoptera, Chrysomelidae, Bulgaria, Rila Mountain, faunistic list, zoogeographical classification

Introduction

Totally 187 taxa of *Chrysomelidae* have been established in Rila Mountain till now: Orsodacninae – 1, Criocerinae – 3, Clytrinae – 13, Cryptocephalinae – 22, Eumolpinae – 2, Chrysomelinae – 46, Galerucinae – 12, Alticinae – 75, Hispinae – 1, Cassidinae – 12. That number represents 36 % of the leaf beetles in Bulgaria. Forty two species and subspecies are herein newly recorded to the fauna of Rila Mountain. New faunistic data about 30 taxa are given. The investigated material is preserved in the Department of Zoology of the University of Plovdiv and in various collections, pointed out in the abbreviations below.

Acknowledgements. I thank all the curators of the mentioned museums and my colleagues, owners of private collections, for loan of their material for study. My special thanks go to Dr. VASSIL TOMOV of the University of Plovdiv for his kind permission to use his material of Orsodacninae, Criocerinae, Clytrinae, Cryptocephalinae and Galerucinae, identified by him.

Faunistic list

Abbreviations:

1. general: **ab.** - above, **b.** - below, **mr.** - manastir (monastery), **res.** - reserve, **rt.** - resort, **vill.** - village

2. preserved material: **BpM** - coll. of Museum in Budapest; **LB** - coll. of Lech Borowiec; **MB** - coll. of Museum in Berlin; **MBn** - coll. of Museum in Brno; **MP** - coll. of Museum in Prague; **NMS** - coll. of National Museum Natural History, Sofia; **UA** - coll. of U. Arnold, **UH** - coll. of U. Heinig

3. zoogeographical types: **E - European complex** (ME - Mideuropean element; ME (mt.) - Mideuropean mountain element; SEE (mt.) - Southeasteuropean mountainous element; HSbM - Holosubmediterranean subelement; EsbM - Eastsubmediterranean subelement; **M - Mediterranean complex** (NM - Northmediterranean element) **S - Siberian complex** (EAP - Euroasiatic Palaearctic element: SibE - Siberoeuropean subelement; SSibE - Southsiberoeuropean subelement; TrPal. - Transpalaearctic subelement; HPal - Holopalaearctic subelement; H - Holarctic element). **SWAs - Southwestasiatic complex** (SbIn - Subirianian element; IT - Irano-Turanian subelement; AsM - Asia Minor subelement). **End - Endemic**; (BnE - Balkan endemic; BgE - Bulgarian endemic). **Intr. - Introduced**

Subfamily ORSODACNINAE

* **Orsodacne cerasi** (Linnaeus, 1758)

ab. Belitsa, 20.VI.1972; rt. „Borovets“, 15-20.VII.1921, leg. I. BURESCH (ex NMS); ab. Yakoruda, 1000 m, 13.VI.1967; ab. vill. Kostenets, 30.V.1912, leg. I. BURESCH (NMS); Rilski mr., 7. VII.1978, and 1300 m, 1.VII.1977 (UA). Distribution: from England, South Scandinavia and South France to West Siberia. S/EAP/SibE

Subfamily CRIOCERINAE

Lilioceris merdigera (Linnaeus, 1758)

Rila Mt. (YOAKIMOV, 1899). New material: Rilski mr., 25.VI.1960; res. „Borovets“, 1350 m, 10.VII.1939, 20.VIII.1926, leg. I. BURESCH (NMS). Distribution: from the Iberin Peninsula, France and South Norway to Japan. S/EAP/TrPal

* **Oulema galaeciana** (Heyden, 1870)

ab. Yakoruda, 30.V.1972; Yakoruda > Belitsa, 17.V.1973; Belmeken, 1800 m, 18.VI.1972. Distribution: Europe, West Siberia. S/EAP/SibE

Oulema melanopus (Linnaeus, 1758)

Rila Mt. (YOAKIMOV, 1899); Rila Mt., 1200 m; vill. Kostenets, Belmeken, 2500 m (VIG, 1992). New material: rt. „Borovets“, 1400 m; Rilski mr., 21.VI.1972; vill. Raduil, 26.II.1989, leg. S. BESHKOV (NMS). Distribution: from Ireland, South Norway and Morocco to Middle Siberia and Mongolia. S/EAP/SibE

Subfamily CLYTRINAE

Clytra novempunctata Olivier, 1808

Rila Mt. (NEDELKOV, 1909 a). New material: vill. Stob, 2.VII.1977. Distribution: South-East Europe (eastern Balkans, Rumania, South Ukraine, South Russia, Caucasus countries), Asia Minor, North-West Iran, Middle Asia. SWAs/SbIn

* **Clytra quadripunctata** (Linnaeus, 1758)

Rilski mr., 7.VI.1938 (MP), 20.VII.1984, leg. F. FRITZLAR (UA), 18.VI.1971 6.VII.1967; Cherna Mesta Valley (LB). Distribution: from Ireland and North Spain to Kazakhstan, Middle Siberia and Mongolia. S/EAP/SibE

* **Coptocephala unifasciata** (Scopoli, 1763)

Rilski mr., 1440 m, 21.VII.1984 (MB). Distribution: from Spain and Belgium to Middle East, Kazakhstan and Mongolia. S/EAP/SibE

Labidostomis cyanicornis (Germar, 1822)

ab. Yakoruda (TOMOV, 1970). New material: Cherna Mesta Valley (LB), Belitsa, 20.VI.1971. Distribution: southern part of Mid Europe, Rumania, Ukraine and basin of Volga. E/ME

* **Labidostomis humeralis** (Schneider, 1792)

Rilski mr., 7.VII.1985, leg. GROSSER (UA). Distribution: from Mid France and South Sweden to the basin of Volga and Asia Minor. E/ME

Labidostomis longimana (Linnaeus, 1761)

Rila Mt. (YOAKIMOV, 1899, 1904), rt. „Treshtenik“ (TOMOV, 1979). New material: Rilski mr., 7.VII.1987 (UA), 9.VI.1968, 6.VII.1965; vill. Stob, 2.VII.1977. Distribution: from South Italy and South Sweden to Central Russia and Mongolia. S/EAP/SibE

* **Labidostomis propinqua** Faldermann, 1837

Cherna Mesta Valley (LB). Distribution: Bulgaria, South Rumania, Greece, Caucasus, Asia Minor. E/SbM/ESbM

* **Lachnaia sexpunctata** (Scopoli, 1763)

Rilski mr., 15.VI.1971, leg. WITSACK (FF). Distribution: North-East France, South Germany, basin of Danube, Rumania, Ukraine, Balkan Peninsula, Asia Minor. E/SbM/HSbM

* **Macrolenes dentipes** (Olivier, 1808)

vill. Stob, 2.VII.1977. Distribution: Spain (Catalonia, Valencia, Murcia, Andalusia, Balears), France, Croatia, Montenegro, Macedonia, Greece, Bulgaria, Turkey, Syria, Algeria. M/HM

* **Smaragdina affinis** (Illiger, 1794)

Rilski mr., 7.VII.1987 (UA), ab. Yakoruda, 12.V.1968. Distribution: England, France, Italy, Mid Europe, Bulgaria, Rumania, South Ukraine, Finland. E/ME

* **Smaragdina flavicollis** (Charpentier, 1825)

Rilski mr., 1440 m (MB), Cherna Mesta Valley (LB). Distribution: from France and North Italy to North Turkey and Ukraine; Lithuania, Finland. E/ME

* **Smaragdina xanthaspis** (Germar, 1824)

Cherna Mesta Valley (LB), dam „Belmeken“, 24.VII.1990, leg. V. SAKALIAN (NMS), ab. Yakoruda, 950 m, 18.VII.1975. Distribution: North Italy, northern part of the Balkan Peninsula, basin of Danube, South Ukraine, Asia Minor. E/SbM/ESbM

Tituboea macropus (Illiger, 1800)

ab. Yakoruda (Mesta Valley), (TOMOV, 1979). Distribution: South-East Europe from Austria and Albania to the basin of Danube and the Caucasian countries; Mala Asia. E/SbM/ESbM

Subfamily CRYPTOCEPHALINAE

Cryptocephalus aureolus illyricus Franz, 1949

rt. „Treshtenik“ (TOMOV, 1979). Distribution: Austria, Hungary, Rumania, Balkan Peninsula, Slovenia. E/SbM/ESbM

* **Cryptocephalus bilineatus** (Linnaeus, 1776)

rt. „Borovets“, 15-25.VII.1921, leg. I. BURESH (NMS). Distribution: Europe, Caucasus, Siberia, Korea, Japan. S/EAP/TrPal

* **Cryptocephalus bipunctatus** (Linnaeus, 1758)

Cherna Mesta Valley (LB); Belmeken, 1800 m, 18.VI.1972; vill. Stob, 2.VII.1977. Distribution: from Portugal and Ireland to Korea; North Africa. S/EAP/HPal

* **Cryptocephalus connexus** Olivier, 1807

Rila Mt., VII.1929 (MP). Distribution: Southern and East Europe, Caucasus, Asia Minor, Kazakhstan, Turkmenistan, Middle Asia, North Africa. SWAs/SbIn

* **Cryptocephalus elegantulus** Gravenhorst, 1807

Rilski mr., 7.VII.1987 (UA). Distribution: from France to Korea. S/EAP/TrPal

* **Cryptocephalus flavipes** Fabricius, 1781

Rilski mr., 11.V.1981 (MB), rt. „Treshtenik“, 14.VI.1986, leg. ZERCHE & BEHNE (UH), Belitsa, 20.VI.1972. Distribution: Europe, Caucasus, Asia Minor, Middle Asia, Siberia. S/EAP/SibE

* **Cryptocephalus frenatus** Laicharting, 1781

Cherna Mesta Valley (LB). Distribution: West France, Germany, basins of Danube and Dnester. E/ME

* **Cryptocephalus hypochoeridis** (Linnaeus, 1758)

Material: Rilski mr., 9.VII.1968; Belmeken, 2100 m, 18.VI.1972; Belitsa, 20.VI.1972. Distribution: Europe, Caucasus, Asia Minor, South Siberia. S/EAP/SSibE

* **Cryptocephalus labiatus** (Linnaeus, 1761)

vill. Sestrimo, 400 m, 16.VIII.1981, on *Quercus*. Distribution: Europe, Asia Minor, Siberia. S/EAP/SibE

* **Cryptocephalus macellus** Suffrian, 1860

vill. Sestrimo, 700 m, 16.VIII.1981. Distribution: Mid and South Europe, Balkan Peninsula, Asia Minor, Morocco. E/ME

* **Cryptocephalus moraei** (Linnaeus, 1758)

Cherna Mesta Valley (LB); dam „Belmeken“, 26.VII.1990, leg. V. SAKALIAN (NMS); Rilski mr., 6.VII.1967, 1000 m, 9.VII.1968; m. h. „Semkovo“, 20.VI.1972; Belmeken, 2000 m, 18.VI.1972; vill. Stob, 2.VII.1972. Distribution: Europe, Caucasus, Asia Minor. E/ME

Cryptocephalus ocellatus Drapiez, 1819

ab. Yakoruda (TOMOV, 1979). New material: rt. „Treshtenik“, 1800 m, leg. ZERCHE & BEHNE (UH); Cherna Mesta Valley (LB); Rilski mr., 1000 m, 20.VI.1972, 7.VII.1987; Belitsa, 20.VI.1972. Distribution: Europe, Caucasus, Asia Minor, Iran, Kazakhstan, West Siberia. S/EAP/SibE

* **Cryptocephalus octacosmus** Bedel, 1891

Cherna Mesta Valley (LB). Distribution: Mid and South Europe from South Spain and Belgium to Greece; basin of Volga; Asia Minor; West Siberia. S/EAP/SibE

* **Cryptocephalus octopunctatus** (Scopoli, 1763)

Cherna Mesta Valley (LB); Rilski mr., 9.VII.1968; p. „Partizanska polyana“ (ab. Rilski mr., 1400 m, 21.VI.1972, on *Salix* and *Alnus*); Belitsa, 20.VI.1972, on *Salix*. Distribution: Europe, Caucasus, West Siberia. S/EAP/SibE

Cryptocephalus populi Suffrian, 1848

ab. Yakoruda (TOMOV, 1979). Distribution: Europe, South Siberia. S/EAP/SSibE

Cryptocephalus pygmaeus vittula Suffrian, 1848

ab. Yakoruda (TOMOV, 1979 – *Cryptocephalus pygmaeus*). Distribution: mainly in Mid and East Europe; Caucasus countries, Asia Minor. E/ME

* **Cryptocephalus sericeus** (Linnaeus, 1758)

Rilski mr., 6.VII.1965. Distribution: from North Spain, Belgium and Denmark to North-West China; Kazakhstan, Siberia. S/EAP/SibE

* **Cryptocephalus sexpunctatus** (Linnaeus, 1758)

Cherna Mesta Valley (LB). Distribution: from England, East France, North Italy and the basin of Danube to the Arctic circle; Siberia, Japan. S/EAP/TrPal

* **Cryptocephalus violaceus** Laicharting, 1781

Material: rt. „Treshtenik“, 1500 m, leg. WRASE, 26.VII.1990 (UA); Belmeken, 26.VII.1990, leg. V. SAKALIAN (NMS). Distribution: western, middle and southern Europe, from Spain to Ukraine; Asia Minor. E/SbM/HSbM

Pachybrachis hieroglyphicus (Laicharting, 1781)

ab. Yakoruda (TOMOV, 1979). New material: Rilski mr., 21.VI.1972. Distribution: from the Iberian Peninsula to Siberia. S/EAP/SibE

Pachybrachis sinuatus Mulsant et Rey, 1859

ab. Yakoruda (TOMOV, 1979). New material: Cherna Mesta Valley (LB); Rila town, 1.VI.1969, on *Salix*; Rilski mr., 21.VI.1972, 9.VII.1968; Belitsa, 20.VI.1972. Distribution: South France, Mid Europe, Balkan Peninsula, Asia Minor. E/ME

* **Pachybrachis tessellatus** (Olivier, 1791)

vill. Stob, 2.VII.1972. Distribution: from the southern and central parts of Europe to the Caspian Sea. E/ME

Subfamily EUMOLPINAE

Bromius obscurus (Linnaeus, 1758)

Rilski mr. (GRUEV, 1992). Distribution: Europe, Palaeartic Asia incl. Japan and the Kuril Is.; North America. S/H

* **Eumolpus asclepiadeus** (Pallas, 1776)

vill. Kostenets (the mineral baths), 3.VII.1928, leg. P. DRENSKI (NMS). Distribution: Mid and South Europe, West and Middle Asia. S/EAP/SibE

Subfamily CHRYSOMELINAE

Chrysolina cerealis alternans (Panzer, 1799)

Rilski mr. (GRUEV, 1978 – *Chrysolina cerealis*). Distribution: Europe (basin of Danube; North Balkans). E/SbM/EsbM

Chrysolina coeruleans (Scriba, 1791)

Rilski mr. (YOAKIMOV, 1899 – *Chrysolina coeruleans*). New material: Dolna Banya, 625 m, 17.VII.1984, 25.VIII.1967. Distribution: Mid and East Europe, France, Italy, Asia Minor. E/ME

Chrysolina fastuosa (Scopoli, 1763)

Rilski mr. (YOAKIMOV, 1899 – *Chrysolina fastuosa*); Belitsa, Rilski mr., p. „Chaira“, Belmeken (KURTOVO), m. h. „Semkovo“, m. h. „Venetitsa“, p. „Sitnyakovo“ („Chadar Tepe“) (GRUEV, 1992). Distribution: Europe, Caucasus, Asia Minor, North and East Kazakhstan, Afghanistan, West and Middle Siberia. S/EAP/SibE

Chrysolina graminis (Linnaeus, 1758)

Rila Mt. (YOAKIMOV, 1899 – *Chrysolina graminis*). Distribution: Europe, Palaeartic Asia (excl. Japan). S/EAP/SibE

Chrysolina gypsophilae (Kuester, 1845)

vill. Kostenets (GRUEV, 1992; VIG, 1992). Distribution: Europe, Caucasus, Asia Minor. E/ME

Chrysolina haemoptera (Linnaeus, 1758)

Rilski mr. (YOAKIMOV, 1899 – *Chrysolina haemoptera*). New material: Dolna Banya, 25.VIII.1967. Distribution: Europe, Caucasus, Asia Minor, Iran. E/ME

Chrysolina herbacea (Duftschmid, 1825)

ab. Yakoruda (GRUEV, 1978), Belitsa, Sapareva Banya, res. „Parangalitsa“, Rilski mr. (GRUEV, 1992). New material: p. „Chaira“, VIII.1967; Dolna Banya, 625 m, 25.V.1985, 25.VIII.1967; ab. Dupnitsa, 8.V.1968; Predela-Pass. Distribution: Europe, Asia Minor, Iran, Afghanistan, Altai, Pamir. S/EAP/SSibE

Chrysolina limbata (Fabricius, 1775)

rt. „Treshnenik“ (GRUEV, 1978); m. h. „Zavrachitsa“, peak Damga, m. h. (GRUEV, 1992). New material: Dolna Banya, 25.VIII.1967. Distribution: Europe, Caucasus, Kazakhstan, West Siberia, Mongolia. S/EAP/SibE

Chrysolina marginata (Linnaeus, 1758)

ab. *Yacoruda* (GRUEV, 1992). Distribution: Europe, Asia Minor, Iran, Afghanistan, Kazakhstan, Middle Asia, whole Siberia, Mongolia, West China, North Africa. S/EAP/TrPal

Chrysolina notiophila Bechyne, 1952

rt. „Borovets“ (= „Camkurija“) (BECHYNE, 1952; GRUEV, 1976 – *Chrysolina fallaciosa*; GRUEV, TOMOV, 1986, 1998; GRUEV, 1990). Distribution: Bulgaria (Rila Mt., Sredna Gora Mts.). End/BgEnd

Chrysolina olivieri (Bedel, 1892)

vill. Kostenets (GRUEV, 1990 – *Chrysolina coerulea*). Distribution: The Alps, Carpathians, Balkan Peninsula (excl. Greece). E/ME (mt.)

Chrysolina polita (Linnaeus, 1758)

Rilski mr., Belitsa, m. h. „Ivan Vazov“, Cherna Mesta Valley (GRUEV, 1992). New material: Predela-Pass, 9.VI.1977; Dolna Banya, 625 m, 24.V.1985. Distribution: Europe, Siberia, Mongolia, China, Sakhalien. S/EAP/TrPal

Chrysolina reitteri nevesinjensis Bechyne, 1952

Rila Mt. (BECHYNE, 1952 – *Chrysolina lurida nevesinjensis*); Samokov (APFELBECK, 1912, 1916 – *Chrysolina lurida*). Distribution: mountains of Bosnia and Bulgaria. End/BnE

Chrysolina sturmi (Westhoff, 1882)

Rilski mr. (Yoakimov, 1899 – *Chrysolina violacea*). Distribution: Europe from England and France to Russia and Ukraine; East Kazakhstan, Altai. S/EAP/SSibE

Chrysolina varians (Schaller, 1783)

Rilski mr., p. „Sitnyakovo“ (Gruev, 1992); Predela-Pass (Gruev, 2002). Distribution: Europe, Asia Minor, Siberia. S/EAP/SibE

Chrysolina vernalis ottomana (Weise, 1906)

Rilski mr. (Gruev, 1992). Distribution: Turkey (European and Asiatic), Balkan Peninsula (Bulgaria, North Greece, Macedonia, Dalmatia, Bosnia-Herzegovina, Albania). SWAs/SbIn/AsM

Chrysolina collaris Linnaeus, 1758

Rila Mt. (Yoakimov, 1899 – *Melasoma cuprea*); vill. Kostenets (Gruev, Tomov, 1986). Distribution: Europe, Caucasus, Asia Minor, Kazakhstan, all Siberia, Mongolia, North-East China. S/EAP/TrPal

Chrysolina cuprea Fabricius, 1775

Rila Mt. (Yoakimov, 1899 – *Melasoma cuprea*); Rilski mr., Cherna Mesta Valley (Gruev, 1992). New material: Rila town, 1.VI.1969. Distribution: Europe, Palaeartic Asia (incl. Russian Far East); Pakistan. S/EAP/TrPal

Chrysolina populi Linnaeus, 1758

Rilski mr. (Yoakimov, 1899 – *Melasoma populi*), Yakoruda, res. „Parangalitsa“ (Gruev, 1992). Distribution: Palaeartic. S/EAP/HPal

Chrysolina tremulae Fabricius, 1787

Rilski mr. (Gruev, 1992). Distribution: from Ireland to Kamchatka and Sakhalien. S/EAP/TrPal

Chrysolina vigintipunctata (Scopoli, 1763)

Rila town (Gruev, 1992, 2002); Rilski mr. (Gruev, 1992); Belmeken, 2400 m (Vig, 1992). Distribution: Europe, Palaeartic Asia (incl. Japan). S/EAP/TrPal

Gastrophysa polygoni (Linnaeus, 1758)

Rila Mt. (Gruev, 1992); Belmeken (Vig, 1992). New material: Belitsa, 18.IX.1996. Distribution: Europe, Caucasus, Asia Minor, Kazakhstan, Middle Asia, Siberia, Mongolia, China, Korea, North Africa. S/EAP/HPal

Gastrophysa viridula (De Geer, 1775)

m. h. „Gerginitsa“ (Gruev, Tomov, 1986); m. h. „Semkovo“ (Gruev, 2002). New material: Dolna Banya, 625 m, 24.V.1985. Distribution: Europe, Caucasus, Asia Minor, Kazakhstan, all Siberia, Mongolia. S/EAP/TrPal

Gonioctena decemnotata (Marsham, 1802)

vill. Kostenets (Nedelkov, 1909 – *Phytodect rufipes*; Gruev, Tomov, 1986 – *Gonioctena rufipes*). Distribution: from the British Isls. to Japan. S/EAP/TrPal

Gonioctena fornicata Brueggemann, (1873)

low parts of Rila Mt. Pest on *Medicago sativa*. Distribution: South and South-East Europe, Asia Minor, Syria. E/SbM/HSbM

Gonioctena linnaeana (Schrank, 1781)

ab. Yakoruda (Gruev, 1969 – *Phytodecta linnaeanus*; 1986); Cherna Mesta Valley (Gruev, 1992). Distribution: Europe, Asia Minor, Kazakhstan, Siberia, Mongolia, Sakhalien. S/EAP/TrPal

Gonioctena pallida reticulata (Bechyne, 1947)

b. peak Musala (Bechyne, 1947 – *Phytodecta pallidus reticulatus*); p. „Partizanska polyana“ (ab. Rilski mr.), p. „Chaira“ (Gruev, Tomov, 1986); Rilski mr. (Gruev, 1990). New material: Rilski mr., 1400 m, leg. F. Hieke (MB). Distribution: mountains of Bosnia, Herzegovina, Montenegro and Bulgaria. End/BnE

Gonioctena quinquepunctata (Fabricius, 1787)

Rilski mr. (Bechyne, 1947 – *Phytodecta quinquepunctatus*; Gruev, Tomov, 1986); Cherna Mesta Valley (Borowiec, 1979 – *Phytodecta quinquepunctata*); p. „Chaira“, p. „Partizanska polyna“ (Gruev, 1990). Distribution: nearly the the whole of Europe. E/ME

Gonioctena viminalis (Linnaeus, 1758)

ab. Yakoruda (Gruev, Tomov, 1986); Rilski mr. (Gruev, 2002). Distribution: Europe, Palaearctic Asia (excl. Japan). S/EAP/TrPal

Hydrothassa flavocincta (Brulle, 1832)

Rila Mt. (Gruev, 1992). Distribution: Italy, central part of the Danube basin, Balkan Peninsula, Turkey. E/SbM/ESbM

Hydrothassa glabra (Herbst, 1783)

ab. Yakoruda, vill. Kostenets, m. h. „Ivan Vazov“, m. h. „Geginitsa“, Ribno ezero (lake) (Gruev, 1992). Distribution: Europe, West Siberia, Morocco. S/EAP/SibE

Leptinotarsa decemlineata (Say, 1824)

Introduced from America (Colorado beetle). Pest on potato plants. Established in Rila up to 2400 m a. s. l. (Vig, 1992)

Oreina alpestris balcanica (Weise, 1883)

m. h. „Skakavitsa“ (Warchalowski, 1974 – *Chrysochloa gloriosa*); Rilski mr., rt. „Borovets“, m. h. „Ivan Vazov“, p. „Sitnyakovo“ („Chadar Tepe“), res. „Parangalitsa“ (Gruev, 1990 – *Oreina variabilis balcanica*); Rilski mr., Belmeken, peak Musala, Cherna Mesta Valley (Gruev, 1992 – *Oreina alpestris* s. l.); ab. vill. Kostenets, 1600 m (Vig, 1992 – *Oreina variabilis balcanica*); Rila Mt. (Gruev, Tomov, 1998); p. „Pionerska polyana“ (Vig, 2002). Distribution: mountains of Bulgaria (Rila, Rhodope, Stara planina, Vitosha, Osogovo) and Serbia (Stara planina). End/BnE

Oreina cacaliae dinarica (Apfelbeck, 1912)

Rila Mt. (Nedelkov, 1909 – *Chrysochloa cacaliae*; Gruev, Tomov, 1986 – *Chrysochloa cacaliae dinarica*; Gruev, 1992); p. „Sitnyakovo“ („Chadar Tepe“) (Gruev, 2002). Distribution: mountains of Bosnia-Herzegovina, Croatia, Serbia, Macedonia and Bulgaria. End/BnE

Oreina speciosa bosnica (Apfelbeck, 1912)

Rila Mt. (Gruev, Tomov, 1986 and Gruev, 1990 – *Oreina gloriosa arrogans*; Gruev Tomov, 1998 – *Oreina gloriosa bosnica*); m. h. „Ivan Vazov“ (Gruev, 1992 – *Oreina gloriosa* s. l.). Distribution: mountains of Bosnia-Hezegovina, Serbia and Bulgaria. End/BnE

Oreina speciosissima drenskii (Gruev, 1974)

Rila Mt. (Apfelbeck, 1912, 1916 – *Chrysochloa speciosissima*; Gruev, 1977 and Gruev, Tomov, 1986 – *Chrysochloa speciosissima drenskii*); peak Musala (Gruev, 1990). Distribution: mountains of Bulgaria (Rila, Pirin, Stara planina, Vitosha) and Serbia (Stara planina). End/BnE

* ***Oreina virgulata ljubetensis*** (Apfelbeck, 1912)

Predela-Pass, 1000 m, 12.VI.1967. Distribution: mountains of Bosnia-Herzegovina, Serbia, Macedonia, Bulgaria, ? Albania. End/BnE

Phaedon armoraciae (Linnaeus, 1758)

p. „Sitnyakovo“ („Chadar Tepe“), m. h. „Ivan Vazov“, peak Damga (Gruev, 1992). New material: ab. Yakoruda, 2.V.1968. Distribution: Europe, Caucasus, Turkey, Kazakhstan, Middle Asia, Siberia. S/EAP/TrPal

Phaedon cochleariae (Fabricius, 1792)

ab. Dupnitsa (= Stanke Dimitrov) (Gruev, 1969); Belmeken (Kurtovo), Rilski mr., p. „Sitnyakovo“ („Chadar Tepe“) (Gruev, 1992); m. h. „Vada“ (Gruev, 2002). Distribution: Europe, Palaeartic Asia (incl. tundra). S/EAP/TrPal

Phratora laticollis (Suffrian, 1851)

Belitsa (Gruev, 1992). Distribution: Europe, Palaeartic Asia. S/EAP/TrPal

Phratora tibialis (Suffrian, 1851)

ab. Yakoruda (Gruev, Tomov, 1986); m. h. „Vada“, p. „Goletshitsa“ (Gruev, 2002). Distribution: Europe, Asia Minor. E/ME

Phratora vitellinae (Linnaeus, 1758)

ab. Yakoruda (Gruev, 1978); ab. Yakoruda, Belitsa, Sapareva Banya, Rilski mr., Cherna Mesta Valley, upper Maritsa Valley, peak Musala > p. „Granchar“ (Gruev, 1992). Distribution: Europe, Palaeartic Asia (excl. Japan). S/EAP/TrPal

Plagiodera versicolora (Laicharting, 1781)

Bistritsa Valley (Gruev, 1992). New material: Sapareva Banya, 8.V.1968; ab. Dupnitsa, 8.V.1968. Distribution: Palaeartictis; India; Taiwan. S/EAP/HPal

Plagiosterna aenea (Linnaeus, 1758)

Rilski mr. (Yoakimov, 1899 – *Melasoma aenea*); Yakoruda (Gruev, Tomov, 1986 – *Linaeidea aenea*). Distribution: Europe, Palaeartic Asia (incl. Japan). S/EAP/TrPal

Timarcha metallica (Laicharting, 1781)

P. „Sitnyakovo“ („Chadar Tepe“) (Buresch, Arndt, 1926), Rilski mr., rt. „Borovets“ (Gruev, 1992). New material: rt. „Bodrost“, 13.VI.1972. Distribution: mountains of Mid and South Europe. E/ME (mt.)

Timarcha tenebricosa (Fabricius, 1775)

Rila Mt. (Yoakimov, 1899); rt. „Borovets“ (Bechyne, 1945); m. h. „Malyovitsa“, Cherna Mesta Valley (Gruev, 1992); rt. „Bodrost“ (Gruev, 2002). Distribution: Mid, South and South-East Europe, Caucasus, Turkey. E/ME

Subfamily GALERUCINAE

* **Agelastica alni** (Linnaeus, 1758)

Rilski mr., VII-VIII.1967. Distribution: Europe, Caucasus, Asia Minor. E/ME

Calomicrus circumfusus (Marsham, 1802)

ab. Yakoruda, rt. „Treshthenik“ (Tomov, 1979 – *Luperus circumfusus*). New material: vill. Stob, 2.VII.1977. Distribution: Europe. E/ME

* **Calomicrus pinicola** (Duftschmid, 1825)

ab. Yakoruda (Mesta Valley), 250-500 m, 22.VII.1971 and rt. „Treshthenik“, 1650-1700 m, 24.VII.1971, leg P. Lauterer (MBn). Distribution: from Catalonia and North France to Bulgaria, the basin of Dnieper and Finland. E/ME

* **Galeruca tanacetii** (Linnaeus, 1758)

Rilski mr., 13.VII.1927, leg. Fodor (BpM), 18.IX.1990 (FF). New material: Belmeken, 2100 m, 18.VI.1972. Distribution: from Ireland and Portugal to Korea. S/EAP/TrPal

* **Galerucella calmariensis** (Linnaeus, 1767)

ab. Yakoruda, 950 m, 30.V.1972. Distribution: Europe, Caucasus, Asia Minor, Siberia, Mongolia, North China, Japan. S/EAP/TrPal

* **Galerucella lineola** (Fabricius, 1781)

Belitsa, 12.IV.1968, on Salix; ab. Yakoruda, 12.V.1968; Yakoruda > Belitsa, 17.V.1973; p. „Partizanska polyana“ (ab. Rilski mr.), 8.VIII.1968; Rilski mr., 21.VI.1972. Distribution: from Ireland to Japan. S/EAP/TrPal

* **Galerucella pusila** (Duftschmid, 1825)

Rilski mr., 19.VII.1975, leg. Vasarhely (BpM). Distribution: from Catalonia and the British Isls. to Siberia and Mongolia. S/EAP/SibE

* **Lochmaea capreae** (Linnaeus, 1758)

Belitsa, 12.V.1968, on Salix. Distribution: from Spain and Ireland to North Norway; Japan. S/EAP/TrPal

* **Luperus flavipes** (Linnaeus, 1767)

Yakoruda > Belitsa, 17.V.1973. Distribution: Europe, Caucasus, North-East Kazakhstan, Siberia, Mongolia. S/EAP/SibE

* **Luperus longicornis** (Fabricius, 1781)

Belitsa, 20.VI.1972. Distribution: from the Iberian Peninsula to East Siberia. S/EAP/SibE

Luperus rhilensis Weise, 1900

peak Damga (Tomov, 1976). Distribution: Bulgaria (Rila Mt.: peak Damga). End/BgE

Luperus xanthopoda (Schrank, 1781)

ab. Yakoruda, 1000 m, 13.VI.1972 (NMS); Rilski mr., 7.VII.1987 (UA); Cherna Mesta Valley (LB); Belitsa, 20.VI.1972; rt. „Borovets“, 1400 m, 21.VI.1972; p. „Partizanska polyana“ (ab. Rilski mr., 1400 m, on Alnus. Distribution: from (?) Iberian Peninsula to Central Asia. S/EAP/SibE

Subfamily ALTICINAE

Aeschrocnemis rhilensis (Gruev, 1974)

North of Yakoruda (Gruev, 1974 – *Derocrepis serbica rhodopensis*). Distribution: Bulgaria (Rila Mt.). End/BgE

Altica brevicollis Foudras, 1860

vill. Kostenets (Gruev, Tomov, 1986). Distribution: mesophilous species of the great part of Europe (incl. South Sweden), Caucasian countries, Turkey, Iran and Kazakhstan. E/ME

* **Altica carduorum** Guerin-Meneville, 1858

ab. Dupnitsa, 2.V.1971, 6.VII.1968. Distribution: Europe, Caucasus, Turkey, Azerbaijan, Kazakhstan, Middle Asia, Siberia. S/EAP/SibE

Altica lythri Aube, 1843

Rilski mr. (Yoakimov, 1899 – *Haltica lythri*). Distribution: Europe, Turkey. E/ME

Altica oleracea (Linnaeus, 1758)

vill. Stob, Cherna Mesta Valley, p. „Sitnyakovo“, peak Musala (GRUEV, 1992). Distribution: Europe, Palaeartic Asia. S/EAP.TrPal

Altica quercetorum saliceti Suffrian, 1849

peak Musala (GRUEV, 1992 – *Altica quercetorum*; GRUEV, 2002). Distribution: Europe, Armenia. E/ME

Altica tamaricis Schrank, 1785

Rilski mr. (GRUEV, 1992). Distribution: Europe, Palaeartic Asia (excl. Japan). S/EAP/TrPal

Aphthona abdominalis (Duftschmid, 1825)

Rilski mr. (GRUEV, 1992). Distribution: Mid and South Europe, Caucasus, Turkey, Iran, Afghanistan, Kazakhstan, Siberia, Mongolia, China, Japan. S/EAP/TrPal

Aphthona cyparissiae (Koch, 1803)

Cherna Mesta Valley (GRUEV, 1992). Distribution: Mid, South and East Europe. E/ME

Aphthona euphorbiae (Schrank, 1781)

Samokov Distr.; Dolna Banya (BURESCH, LAZAROV, 1956). Distribution: Europe, Palaeartic Asia eastwards to the Baikal area; North Africa. S/EAP/SibE

Aphthona flava Guillebeau, 1895

Rilski mr., rt. „Borovets“ (p. „Varnika“), vill. Raduil (GRUEV, 1992). Distribution: Southeastern Europe westwards to Italy; Turkey. E/ME

Aphthona franzi Heikertinger, 1944

Belmeken (Kurtovo) (GRUEV, 1992). Distribution: Mid, South-East and East Europe, Caucasus, Turkey, Altai, Israel, Syria. S/EAP/SibE

Aphthona herbigrada (Curtis, 1837)

rt. „Borovets“ (p. „Varnika“) (GRUEV, 1992). Distribution: Mid and South Europe, North-West Africa. E/ME

Aphthona pygmaea (Kutschera, 1861)

ab. Yakoruda (GRUEV, 1992); p. „Goletshitsa“ (GRUEV, 2002). Distribution: the whole of Europe, Caucasus, Asia Minor, Rhodos, Syria, Lebanon, Israel, Jordan, Yemen, North-East Africa. E/ME

Aphthona venustula (Kutschera, 1861)

ab. Yakoruda, Rilski mr., Belmeken (Kurtovo), rt. „Borovets“ (GRUEV, 1992). Distribution: Europe, Caucasus, Asia Minor. E/ME

Batophila moesica Heikertinger, 1948

Samokov, rt. „Borovets“ (HEIKERTINGER, 1948); Rilski mr., Belitsa (GRUEV, 1990). Distribution: mountains of Bulgaria and Rumania. E/SEE (mt.)

Batophila rubi (Paykull, 1799)

m. h. „Vada“ (GRUEV, 2002). Distribution: Europe (in Bulgaria mountainous species), Caucasus, West Siberia. S/EAP/SibE

Chaetocnema arenacea (Allard, 1860)

ab. Yakoruda (GRUEV, TOMOV, 1986). Distribution: Mid, South and Southeast Europe, Caucasus, Azerbaijan, Turkey, North-West Africa. E/ME

Chaetocnema concinna (Marsham, 1802)

rt. „Borovets“, Klisurski-Pass (Rila Mt. > Verila Mt.), m. h. „Gerginitsa“, vill. Raduil (GRUEV, 1992). New material: 15. VI.2004. Distribution: Europe, Palaeartic Asia (excl. Japan), Algeria. S/EAP/HPal

Chaetocnema hortensis (Geoffroy, 1785)

rt. „Treshnenik“ (GRUEV, 1978); m. h. „Gerginitsa“, peak Musala (GRUEV, 1992); peak Malyovitsa (GRUEV, 2002). New material: Dolna Banya, 625 m, 24.V.1985. Distribution: Europe, Palaeartic Asia (excl. Japan), Madeira, South Arabia, North-West Africa, Chad Sudan. S/EAP/HPal

Chetocnema montenegrina Heikertinger, 1912

ab. Yakoruda (GRUEV, 1992). Distribution: South-East Europe, Asia Minor, Armenia, Turkmenistan, Iran, Afghanistan, Middle Asia. SWAs/SbIn/IT

Chetocnema sahlbergii (Gyllenhal, 1827)

Belmeken (Kurtovo) (GRUEV, TOMOV, 1986). Distribution: Europe, Caucasus, Turkey, all Siberia, Mongolia. S/EAP/TrPal

Chaetocnema semicoerulea (Kutschera, 1864)

ab. Yakoruda, Belitsa (GRUEV, 1992). Distribution: Mid and South Europe, Caucasus, Asia Minor, Kazakhstan, West and Middle Siberia eastwards to the Baikal area. S/EAP/SibE

Chetocnema tibialis (Illiger, 1807)

peak Musala (GRUEV, 1992); rt. „Borovets“ (GRUEV, 2002). Distribution: Europe, Palaeartic Asia eastwards to the Baikal area; North-West Africa. S/EAP/SibE

Crepidodera aurata (Marsham, 1802)

Rila Mt. (YOAKIMOV, 1904); rt. „Borovets“ (NEDELKOV, 1909 – *Chalcoides aurata*); ab. Yakoruda (GRUEV, 1978 – *Chalcoides aurata*); Belitsa, Sapareva Banya, Cherna Mesta Valley, Rilski mr., m. h. „Gerginitsa“ (GRUEV, 1992); m. h. „Vada“ (GRUEV, 2002). Distribution: Europe, Palaeartic Asia (excl. Japan), Morocco. S/EAP/HPal

Crepidodera aurea (Geoffroy, 1785)

Rilski mr. (GRUEV, 1992). Distribution: Europe, Caucasus, Turkey, Cyprus, Iran, Kazakhstan, Middle Asia, West Siberia, Transbaikalia. S/EAP/SibE

Crepidodera fulvicornis (Fabricius, 1792)

p. „Chaira“ (GRUEV, TOMOV, 1986 – *Chalcoides fulvicornis*). Distribution: from nearly the whole of Europe to Amurland. S/EAP/TrPal

Crepidodera nigricoxis (Allard, 1878)

Belitsa, ab. Yakoruda, Rilski mr. (GRUEV, 1975 – *Chalcoides nigricoxis*). Distribution: South-East Europe, Caucasus. E/SbM/ESbM

Derocrepis rufipes (Linnaeus, 1758)

Rila Mt. (NEDELKOV, 1909); rt. „Borovets“ (GRUEV, 1992). Distribution: Europe, Caucasus, Asia Minor, West and Middle Siberia, Saiany Mts. S/EAP/SibE

Dibolia cryptocephala (Koch, 1803)

rt. „Borovets“ (MOHR, 1981); Rilski mr. (GRUEV, 1992). Distribution: Mid and South Europe, Caucasus, Kazakhstan, West Siberia. S/EAP/SibE

Dibolia femoralis Redtenbacher, 1849

vill. Stob (GRUEV, TOMOV, 1986). Distribution: Mid and South Europe, Caucasus, Turkey, Rhodos. E/ME

Hermaeophaga mercurialis (Fabricius, 1792)

Iliina Reka Valley (GRUEV, TOMOV, 1986). Distribution: Mid, South and South-East Europe, Caucasus, Turkey. E/ME (mt)

Hippuriphila modeeri (Linnaeus, 1761)

ab. Yakoruda, Belitsa (GRUEV, 1992). Distribution: Europe, Caucasus, Turkey, all Siberia, Mongolia. S/EAP/TrPal

Longitarsus aeneicollis (Faldermann, 1837)

Rila Mt., Belmeken (KURTOVO) (GRUEV, 1992 – *Longitarsus suturalis*). Distribution: Europe, Near and Middle East, Kazakhstan, Middle Asia, North-West Africa. E/ME

Longitarsus alfieri furthi Gruev, 1982

Samokov (GRUEV, 1982). Distribution: Spain, Bulgaria, Macedonia, Serbia, Crete, Crimea, Georgia, Turkey. E/SbM/HSbM

Longitarsus apicalis (Beck, 1817)

rt. „Treshtenik“ (GRUEV, 1978); Belmeken (KURTOVO), dam „Belmeken“, rt. „Borovets“ (GRUEV, 1990); Rilski mr., Cherna Mesta Valley (GRUEV, 1992). Distribution: Europe, Caucasus, Canary Isls., West and South Siberia. S/EAP/SibE

Longitarsus brunneus (Duftschmid, 1825)

vill. Kostenets, rt. „Borovets“ (GRUEV, 1973). Distribution: Europe, Palearctic Asia (excl. Japan). S/EAP/TrPal

Longitarsus exoletus (Linnaeus, 1758)

ab. Yakoruda, Rilski mr., Cherna Mesta Valley (GRUEV, 1992). Distribution: Europe, Caucasus, Turkey, Iran, Turkmenistan, Afghanistan, Syria, Cyprus. E/ME

Longitarsus lewisii (Baly, 1874)

rt. „Borovets“ (GRUEV, 1992). Distribution: from Europe to Korea, Japan; North Vietnam and Taiwan. S/EAP/TrPal

Longitarsus linnaei (Duftschmid, 1825)

rt. „Borovets“ (GRUEV, 2002). Distribution: Mid and South Europe, Caucasus, Turkey, Iran, Syria, Israel. E/ME

Longitarsus luridus (Scopoli, 1763)

ab. Yakoruda, Belitsa, rt. „Borovets“, Rilski mr., dam „Belmeken“ (GRUEV, 1992); Predela-Pass (GRUEV, 2002). Distribution: Europe, Palearctic Asia eastwards to Vladivostok. S/EAP/TrPal

Longitarsus melanocephalus (De Geer, 1775)

Belitsa (GRUEV, 1969, 1992); ab. Yakoruda (GRUEV, 1978); Samokov, Rilski mr., rt. „Borovets“ (GRUEV, 1992); Predela-Pass (GRUEV, 2002). Distribution: Europe, Palearctic Asia eastwards to Transbaikalia. S/EAP/TrPal

Longitarsus monticola Kutschera, 1863

Samokov, vill. Kostenets (GRUEV, 1973 – *Longitarsus curtus*). Distribution: mountains of Austria, Bulgaria, Czechia, Slovenia, France, Germany (South and West), Hungary, Italy, Rumania, Switzerland; Caucasus, southern Asiatic Russia, Tajikistan. E/ME (mt.)

Longitarsus nasturtii (Fabricius, 1792)

Belmeken (Kurtovo) (GRUEV, 1992). Distribution: from Europe to Tibet, China and Korea. S/EAP/TrPal

Longitarsus niger (Koch, 1803)

Samokov, Rilski mr., rt. „Borovets“ (p. „Varnika“) (GRUEV, 1992). Distribution: Europe, Caucasus, Turkey. E/ME

Longitarsus nigrofasciatus (Goeze, 1777)

ab. Yakoruda, Samokov (GRUEV, 1992). Distribution: from Europe to West Siberia; North-West Africa. S/EAP/SibE

Longitarsus obliterated (Rosenhauer, 1847)

ab. Yakoruda (GRUEV, 1973); vill. Stob, Rilski mr. (GRUEV, 1992). Distribution: South and South-East Europe, Caucasus, Turkey, Syria, Israel, Jordan. E/ME

Longitarsus parvulus (Paykull, 1799)

dam „Belmeken“ (GRUEV, 1992). New material: p. „Partizanska polyana“ (ab. Rilski mr.), 11.VIII.1985. Distribution: from Europe to Middle Siberia, Sayany Mts; Canary Isls. S/EAP/SibE

Longitarsus pratensis (Panzer, 1794)

Predela-Pass, rt. „Borovets“ (p. „Varnika“) (GRUEV, 2002). New material: Samokov, 15.VI.2004. Distribution: whole Europe, Palaeartic Asia eastwards to Middle Asia. E/ME

Longitarsus quadripunctatus (Pontoppidan, 1765)

Rila Mt. (GRUEV, TOMOV, 1986). Distribution: Europe, Caucasus, Asia Minor. E/ME

Longitarsus reichei (Allard, 1860)

peak Musala (GRUEV, MERKL, 1992). Distribution: Europe, Caucasus, Turkey, Iran. E/ME

Longitarsus scutellaris (Rey, 1874)

Sapareva Banya (GRUEV, 1991); Rilski mr. (GRUEV, MERKL, 1992). Distribution: Europe, Caucasus, Asia Minor, Siberia, Mongolia. S/EAP/SibE

Longitarsus succineus (Foudras, 1860)

Cherna Mesta Valley (GRUEV, 1992); Rilski mr. (GRUEV, 2002). Distribution: Europe, Palaeartic Asia, North-West Africa. S/EAP/HPal

Longitarsus suturellus (Duftschmid, 1825)

rt. „Borovets“ (GRUEV, 2002). Distribution: the whole of Europe, Palaeartic Asia eastwards to Korea, Japan and the Kuril Isls. S/EAP/TrPal

* **Longitarsus tabidus** (Fabricius, 1775)

Belitsa, 18.IX.1986. Distribution: from Europe to West Siberia, Sayany Mts. and Mongolia; North-West Africa. S/EAP/SibE

Lythraria salicariae (Paykull, 1800)

ab. Yakoruda (GRUEV, TOMOV, 1986). Distribution: Europe, Caucasus, Armenia, Iran, Kazakhstan, all Siberia, Mongolia, Korea, Japan. S/EAP/TrPal

Minota carpathica Heikertinger, 1911

m. h. „Malyovitsa“ (GRUEV, 1992). Distribution: mountains of Poland, Slovakia, Czechia, Austria, Slovenia, Croatia, Switzerland, Hungary, Germany (West), Italy (North), Rumania, Bulgaria (Rila Mt.), Ukraine (Carpathians). E/ME (mt.)

Mniophila muscorum (Koch, 1803)

Rilski mr., p. „Partizanska polyana“ (ab. Rilski mr.) (GRUEV, TOMOV, 1986). Distribution: Europe, Caucasus. E/ME

Neocrepidodera ferruginea (Scopoli, 1763)

Rila Mt. (YOAKIMOV, 1904 – *Crepidodera ferruginea*); vill. Raduil, Yakoruda, Rilska reka Valley, Rilski mr. (GRUEV, 1992 – *Asiaorestia ferruginea*). Distribution: Europe, Azores, Caucasus, Turkey, Iran. E/ME

Neocrepidodera peirolerii (Kutschera, 1860)

Rila Mt. (GRUEV, TOMOV, 1986 – *Crepidodera peirolerii*), dam „Belmeken“ (GRUEV, 1990 – *Asiolestia peirolerii*); Belmeken (Kurtovo) (GRUEV, 1992 – *Asiolestia peirolerii*). Distribution: mountains of Austria, Germany (Bavaria), France, Italy (North), Liechtenstein, Switzerland, Slovenia, Bosnia-Herzegovina, Serbia, Macedonia, Bulgaria. E/ME (mt.)

Orestia bulgarica Heikertinger, 1910

Rila Mt. (HEIKERTINGER, 1910); peak Musala, rt. „Borovets“, p. „Sitnyakovo“, Samokov (nr. river Iskar), Rilski mr. (HEIKERTINGER, 1924). Distribution: Stara Planina Ridge (in Bulgaria and Serbia). End/BnE

Phyllotreta astrachanica Lopatin, 1977

peak Musala (GRUEV, 1992). New material: Dolna Banya, 625, 2.VIII.1985. Distribution: Mid, South and East Europe, Caucasus, Asia Minor, Cyprus, North-West Kazakhstan. E/ME

Phyllotreta atra (Fabricius, 1775)

ab. Yakoruda, vill. Raduil, Belmeken (Kurtovo), dam „Belmeken, peak Musala, vill. Sestrimo (GRUEV, 1992). New material: m. h. „Musala“, 6.VIII.1985. Distribution: Eurpe, Palaeartic Asia (incl. Kuril Isls.; excl. Japan); Morcco. S/EAP/HPal

Phyllotreta cruciferae (Goeze, 1777)

peak Musala, Belmeken (GRUEV, 1992). Distribution: from the whole of Europe to West Siberia, Saiany Mts. and Mongolia; North Africa, Ethiopia, Sudan. S/EAP/SibE

Phyllotreta diademata Foudras, 1860

Cherna Mesta Valley (GRUEV, 1992). Distribution: from the whole of Europe to Central Asia, recorded also from North India (Sikkim). S/EAP/SibE

Phyllotreta nemorum (Linnaeus, 1758)

rt. „Borovets“, Belmeken (Kurtovo) (GRUEV, 1992). Distribution: Europe, Palaeartic Asia (excl. Japan). S/EAP/SibE

Phyllotreta nigripes (Fabricius, 1775)

Belitsa, Belmeken (Kurtovo) (GRUEV, 1992), b. peak Shatar (GRUEV, 2002). Distribution: the whole of Europe, Palaeartic Asia eastwards to Middle Asia; North Africa. E/ME

Phyllotreta tetrastigma (Comolli, 1837)

m. h. „Vada“ (GRUEV, 2002). Distribution: Europe, Turkey, West and Middle Siberia, Yakutiya. S/EAP/SibE

Phyllotreta undulata Kutschera, 1860

peak Musala, Sapareva Banya (GRUEV, 1992). Distribution: the whole of Europe, Palaeartic Asia (excl. Japan). S/EAP/TrPal

Phyllotreta vittula (Redtenbacher, 1849)

Rilski mr., peak Musala, dam „Belmeken“, m. g. „Gerginitsa“ (GRUEV, 1992). Distribution: the whole of Europe, Palaeartic Asia (excl. Japan). S/EAP/TrPal

Psylliodes aereus austriacus Heikertinger, 1911

Rilski mr. (GRUEV, 1992). Distribution: mountains of Czechia, Slovakia, Hungary, Austria, Rumania, Bulgaria, Ukraine (Carpathians). E/ME (mt.)

Psylliodes affinis (Paykull, 1799)

Belitsa (GRUEV, 1992). Distribution: Europe, Caucasus, Kazakhstan, West Siberia, Morocco. S/EAP/SibE

Psylliodes cupreus (Koch, 1803)

Belitsa (GRUEV, 1992). Distribution: Europe, Palaeartic Asia eastwards to Transbaikalia; North-West Africa. S/EAP/SibE.

Psylliodes dulcamarae (Koch, 1803)

ab. Yakoruda (GRUEV, 1992). Distribution: Europe, Palaeartic Asia eastwards to West Siberia. S/EAP/SibE

Psylliodes tricolor Weise, 1888

Rilski mr. (GRUEV, 1992 – *Psylliodes sophiae*). Distribution: from Europe to the Baikal area; Morocco. S/EAP/SibE

Subfamily HISPINAE

* **Hispa atra** Linnaeus, 1767

Samokov, 4.VII.1968. Distribution: Europe, Palaeartic Asia eastwards to China; North Africa. S/EAP/SibE

Subfamily CASSIDINAE

Cassida flaveola Thunberg, 1794

p. „Dzhaferitsa“, (ANGELOV ET AL., 1964 – *Cassida berolinensis*); p. „Chaira“ (GRUEV, 1967); Belitsa, vill. Cherna Mesta (GRUEV, , 1992). Distribution: Europe, Palaeartic Asia eastwards to the Russian Far East. S/EAP/TrPal

Cassida hemisphaerica Herbst, 1799

Mt. Rila (Gruev, Tomov, 1986). Distribution: Europe with South Norway and the Mediterranean. E/ME

Cassida margaritacea Schaller, 1783

Mt. Rila (Gruev, 1992). Distribution: from West France to Caucasus and Siberia. S/EAP/SibE

* **Cassida murraea** Linnaeus, 1767

Dolna Banya, 625 m, 24.V.1985. Distribution: from the British Isls. to Japan. S/EAP/TrPal

Cassida pannonica Suffrian, 1844

Rila town (GRUEV, 1992). Distribution: Mid, South and East Europe, Caucasus, Asia Minor, North Kazakhstan, Middle Asia, West China. SWAs/SbIn

Cassida panzeri Weise, 1907

Predela-Pass (GRUEV, TOMOV, 1986). Distribution: from France to Japan. S/EAP/TrPal

Cassida prasina Illiger, 1798

Belitsa, Predela-Pass (GRUEV, 1992). New material: Rilski mr., 9.VII.1968; Dolna Banya, 625 m, 24.V.1985. Distribution: Europe, Asia Minor, Kazakhstan, Siberia, West China. S/EAP/SibE

Cassida rubiginosa Mueller, 1776

Rilski mr., Belmeken (Kurtovo) (GRUEV, 1992); m. h. „Semkovo“ (GRUEV, 2002). Distribution: Palaeartic; Taiwan. S/EAP/HPal

Cassida rufovirens Suffrian, 1844

Rila Mt. (WEISE, 1891 and Spaeth, Reitter, 1926 – *Cassida rufovirens rhilensis*). Distribution: France, Mid and South-East Europe, Caucasus, Asia Minor. E/ME

Cassida subferruginea Schrank, 1776

Belitsa, vill. Stob (GRUEV, 1992). Distribution: Palaeartic. S/EAP/TrPal

Cassida vibex Linnaeus, 1767

ab. Yakoruda (GRUEV, 1992). Distribution: Europe, Palaeartic Asia (incl. Japan). S/EAP/TrPal

Cassida viridis Linnaeus, 1758

Rilski mr. (YOAKIMOV, 1899); ab. Yakoruda, m. h. „Gerginitsa“ (GRUEV, 1992). New material: Dolna Banya, 625 m, 24.V.1985. Distribution: Palaeartic. S/EAP/HPal

Zoogeographic classification of the taxa

(after GRUEV, 1988, 1990, 1994 [in: GRUEV, KUZMANOV, 1994], 1995, 1999
[in: GRUEV, KUZMANOV, 1999]; GRUEV, BECHEV, 2000)

Dominant in Rila Mountain is the Siberian faunistic complex with 107 taxa (Siberoeuropean – 48, Transpalaeartic – 43, Holopalaeartic – 11, Southsibiroeuropean – 4, Holarctic – 1), followed by the European complex – 62 taxa (Mideuropean – 43, Mideuropean mountainous – 7, Holosubmediterranean – 4, Eastsubmediterranean – 7, Southeasteropean mountainous – 1), the Southwestasiatic complex – 5 taxa (Subiranian – 3, Irano-Turanian – 1, Asia Minor – 1), the Mediterranean complex – 1 (Holomediterranean – 1), the endemic group – 11 taxa (Balkan endemics – 8, Bulgarian endemics – 3), and one introduced species.

REFERENCES

- APFELBECK, V. 1912. Komponente balkanske faune iz roda Chrysomelidae (Col.). – Glasnik zemal. muz. Bosn. Herzeg., 24: 235-263 (in Serbian)
- APFELBECK, V. 1916. Die Komponenten der Balkanfauna aus der Familie Chrysomelidae (Col.). – Wiss. Mitteil. Bosn. Herzeg., 13: 354-396
- BECHYNÉ, J. 1945. De speciebus generis *Timarcha* sectionis *tenebricosa* F. – Entomologicne Listy, CRS, 8: 5-10
- BECHYNÉ, J. 1947. Prispěvek k poznání rodu *Phytodecta* Kirby. Acta ent. mus. nat. Pragae, 7, 3: 89-163 (in Czech)
- BECHYNÉ, J. 1952. Achter Beitrag zur Kenntnis der Gattung *Chrysolina* Motsch.. – Entom. Arb. Mus. Frey, 3: 351-385
- BOROWIEC, L. 1979. Chrysomelidae (Coleoptera) new to the Bulgarian fauna. – Pol. Pismo Ent., 49: 481-483
- BURESCH, I. ARNDT, W. 1926. Die Glazialrelikte stellenden Tierarten bulgariens und mazedoniens. – Zeitschrift für Morphologie und Ökologie der Tiere, 5, 3: 381-405
- BURESCH, I. LAZAROV, A. 1956. Vrednite nasekomi za selskoto i gorskoto stopanstvo v Balgariya. Bibliografiya i katalog. – Trud. Zool. Inst., Acad. Sci. Bulg., 5: 1-289 (in Bulgarian)
- GRUEV, B. 1967. Über die Arten der Unterfamilie Cassidinae (Chrys., Col.) in Bulgarien. – Acta Mus. Maced. Sci. Natur., XI, 2 (92): 17-37
- GRUEV, B. 1969. Beitrag zur Forschung der Familie Chrysomelidae (Col.) in Bulgarien in Bezug auf die Dipterenparasiten. – Mitteil. Deutsch. Ges. Berlin, 28, 5-6: 54
- GRUEV, B. 1973. Neue Angaben über die Systematik und Verbreitung einiger paläarktischen Arten der Gattung *Longitarsus* Latr. mit Beschreibung einer neuer Art aus Bulgarien (Coleoptera, Chrysomelidae). – Trav. Sci. Plovdiv Univ., 11, Biol. 5: 105-124
- GRUEV, B. 1974. Zwei neue Unterarten von *Derocrepis serbica* (Kutschera, 1860) aus Bulgarien (Col. Chrysomelidae). – Ent. Arb. Mus. Frey, 25: 121-130

- GRUEV, B. 1975. Zwei neue Arten der Unterfamilie *Halticinae* und taxonomische Notizen über *Chalcoides nigricoxis* (Allard, 1873) (Coleoptera, Chrysomelidae). – Acta zool. bulg., 1: 89-95
- GRUEV, B. 1976. Eine neue *Chrysomela*-Art aus der Türkei und Bemerkungen über *Chrysomela fallaciosa* Müller, 1948 (Coleoptera, Chrysomelidae). – Acta zool. bulg., 5: 75-78
- GRUEV, B. 1978. Bulgarian Chrysomelidae (Coleoptera) in the Moravian museum (Brno). – Trav. Sci. Univ. Plovdiv, 16, Biol., 4: 205-215 (in Bulgarian with summaries in Russian and English)
- GRUEV, B. 1982. Beitrag zur Kenntnis der *Longitarsus obliteratus*-Gruppe (Col., Chrysomelidae, Alticinae). – Dtsch. ent. Z., N. F., 29, 4-5: 469-473
- GRUEV, B. 1988. Check-list and zoogeography of the species of Alticinae (Coleoptera, Chrysomelidae) of the Bulgarian Black Sea side. – Trav. Sci. Univ. Plovdiv, 26, Biol., 6: 79-134 (in Bulgarian with summaries in Russian and English)
- GRUEV, B. 1990. Mountain leaf beetles of Eumolpinae, Chrysomelinae and Alticinae (Coleoptera, Chrysomelidae) in Bulgaria. Fauna and zoogeography. – Trav. Sci. Univ. Plovdiv, 28, Biol. 6: 27-61 (in Bulgarian with summary in English)
- 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. of Biology, Book 1 – Zoology, Tom 86-87: 75-82
- GRUEV, B. 2002. New distributional data about some leaf beetles (Coleoptera, Chrysomelidae: Eumolpinae, Chrysomelinae, Alticinae, Hispinae, Cassididnae) in the Balkan Peninsula. – Trav. Sci. Univ. Plovdiv, 38, Animalia, 6: 17-34
- GRUEV, B., BECHEV, D. 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, 36, Animalia, 6, 5-34 (in Bulgarian with summary in English)
- GRUEV, B., KUZMANOV, B. 1994. General biogeography. – Sofia, University Press „St. Kliment Ohridski“. 498 pp. (in Bulgarian)
- GRUEV, B., KUZMANOV, B. 1999. General biogeography. – Plovdiv University Press. 344 pp. (in Bulgarian)
- 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., TOMOV, V. 1986. Coleoptera, Chrysomelidae. 2. – in: Fauna bulgarica. 16. Acad. Sci. Bulg., Sofia. 388 pp. (in Bulgarian)
- GRUEV, B., TOMOV, V. 1998. Coleoptera: Chrysomelidae. – in: Catalogus faunae bulgaricae, 3. Sofia, Pensoft. 160. pp.
- HEIKERTINGER, F. 1924. Monographie der Halticinengattung *Orestia* Germ. (Col. Chrysomelidae). – Verh. K. K. zool.-bot. Ges. Wien, 74: 56-125

- HEIKERTINGER, F. 1948-1950. Bestimmungstabelle der paläarktischen der *Crepidodera*-Verwandtschaft weitesten Sinnes. – Kol. Rundschau, 31: 15-146
- MOHR, K.-H. 1969. Beitrag zur Chrysomelidenfauna bulgariens. – Beitr. Entomol., 19, 3: 389-394
- NEDELKOV, N. 1909. Peti prinosa kam entomologichnata fauna na Balgariya. – Sbornik narodni umotvoreniya, hauka i knizhnina, Sofia, 25: 1-37 (in Bulgarian)
- SPAETH, F., REITTER, E. 1926. Cassidinae der paläarktischen Region. – Bestim. Tab. Europ. Coleopteren, Tropau, 95: 1-68
- TOMOV, V. 1970. A contribution on the genus *Labidostomis* Redt. in Bulgaria (Chrysomelidae, Col.). – Trav. Sci. Univ. Plovdiv, 8, Biol., 3: 155-159 (in Bulgaria with summaries in Russian and English)
- TOMOV, V. 1976. New and little known species of Chrysomelidae (Col.) for the fauna of Bulgaria. – Trav. Sci. Univ. Plovdiv, 14, Biol., 4: 179-181 (in Bulgarian with summaries in Russian and English)
- TOMOV, V. 1979. Bulgarian leaf beetles (Col., Chrysomelidae) in the Moravian Museum of Natural History in Brno. Trv. Sci. Univ. Plovdiv, 17, Biol., 4: 175-180 (with summaries in Bulgarian and Russian)
- VIG, K., 1992. Contribution to the knowledge of Chrysomelidae fauna of Bulgaria (Coleoptera: Chrysomelidae). – Savaria, Hungary, 20, 2: 295-308
- WARCZALOWSKI, A. 1974. Übersicht der Blattkäfer bulgariens (Coleoptera, Chrysomelidae). – Pol. Pis. Ent., 44, 3: 473-542
- WEISE, J. 1891. Bemerkung zur *Cassida*. – Wien. ent. Zeitung, 10: 205
- YOAKIMOV, D. 1899. Prinosa kam faunata ot nasekomi na Rila planina. – Periodichno spisanie na Balgarskoto knozhovno druzhestvo, Sofia, 59: 758-778 (in Bulgarian)
- YOAKIMOV, D. 1904. Prinosa kam balgarskata fauna na nasekomite. - Sbornik narodni umotvoreniya, hauka i knizhnina, Sofia, 20: 1-43 (in Bulgarian)

**ЛИСТОЯДИТЕ (INSECTA: COLEOPTERA: CHRYSOMELIDAE)
НА РИЛА ПЛАНИНА. ФАУНА И ЗООГЕОГРАФИЯ**

Благой А. Груев

*ПУ „Паисий Хилендарски“, Катедра Зоология, ул. Цар Асен 24,
4000 Пловдив*

(Резюме)

Съобщават се фаунистични данни за установените до сега 187 вида и подвида листояди на Рила. От тях 42 са нови за фауната на планината. Таксоните са групирани в: Сибирски комплекс (107), Европейски комплекс (62), Югозападно азиатски комплекс (5), Медитерански комплекс (1), Ендемити – 11 (балкански – 8, български – 3), интродуцирани (1).