

Bark Beetles (Coleoptera: Curculionidae: Scolytinae) in the Bulgarian Part of the Rhodopes

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Abstract. A total number of 58 species and subspecies belonging to 24 genera of bark beetles (Coleoptera: Curculionidae: Scolytinae) occur in the Bulgarian Rhodopes; these are 51,3 % of all known bark beetles in Bulgaria. Two species from the Western Rhodopes, *Ernoporicus caucasicus* (Lindemann, 1876) and *Ips mannsfeldi* (Wachtl, 1879) are new for the Bulgarian fauna and another 9 are new for the Rhodopes. Twenty-three genera and 55 species and subspecies occur in the Western Rhodopes; these are 48,7 % of Scolytinae in Bulgaria, or 94,8 % of the bark beetles in the Rhodopes. Six species are reported for the first time in this region. Nine genera and 11 species and subspecies occur in the Eastern Rhodopes; these are 9,7 % of Bulgarian Scolytinae, or 19,0 % of Scolytinae in the Rhodopes. Nine species and subspecies of them are new for the region. The knowledge on all probable bark beetle species of the Rhodopes is estimated at about 52 %; for the Western and Eastern parts they are 51 % and 21 %, respectively.

Key words: Coleoptera, Scolytinae, Western and Eastern Rhodopes, Bulgaria.

Introduction

The first records of bark beetles (Coleoptera: Curculionidae: Scolytinae) in the Rhodopes were made in the Bulgarian entomological literature by YOAKIMOV (1904) who reported two species from the Western Rhodopes. Subsequently, after more extensive studies, CHORBADJIEV (1924, 1927) and TSCHORBADJIEV (1929) added many more species, which were predominantly for the region of the Western Rhodopes (41 species) and only 2 for the Eastern part. These two species are still the only published data for the Eastern Rhodopes.

For a long period no new data on the bark beetles in the Rhodopes was presented, but the biological and ecological characteristics of some economically important species were studied in more details by RUSSKOFF (1927), RUSKOV (1928), CHORBADJIEV (1930), DIMITROFF (1935), STEFANOV (1932, 1946, 1948, 1948 a, 1950, 1957), TSANKOV (1961), TSANKOV & TOMOVSKY (1985), TSANKOV et al. (1997), ZANKOV (1961), ZASHEV (1949/50, 1952).

New data on the Western Rhodopes was published by PFEFFER (1972, 1994) - 2 species and DOYCHEV & KUHTEV (2003) - 2 species.

Altogether 47 species of bark beetles in the Rhodopes are known until now. All of them are found in the Western Rhodopes, but 2 of them are also known to occur in the Eastern Rhodopes.

This paper presents already published and new data on the bark beetles in the Bulgarian part of the Rhodopes (both the Western and the Eastern parts).

Material and Methods

The discussed biological material was collected during the period 2001–2005 in different parts of the Western and Eastern Rhodopes using the following methods:

- hand collection of adults in flight;
- hand collection of adults under bark of stumps, logs, stems, branches and twigs of the host tree plants;
- laboratory rearing of adults from samples (cuttings of stems, branches and twigs of trees), containing larvae, pupae and hibernating adults in plastic boxes at room temperatures (18-23°C);
- capture in pheromone traps;
- materials from the entomological collection of the University of Forestry, Sofia, were used as well.

The genera, species and subspecies are sorted alphabetically. The nomenclature of the taxa is given according to ALONSO – ZARAZAGA (2004). The symbols and abbreviations used in the text are: * - new species for the region (Western or Eastern Rhodopes); ** - new species for the Bulgarian fauna; ex. – specimen(s); NMNHS – National Museum of Natural History, Sofia; coll. UFS – collection of the University of Forestry, Sofia; P – species with widely Palearctic distribution; H - species with Holarctic distribution; E – European and Eurosiberian species; M – Mediterranean and sub-Mediterranean species.

Results and Discussion

The list of the bark beetles is presented in two parts – for the Western and the Eastern Rhodopes by species:

I. Bark beetles from the Western Rhodopes

**Carpoborus minimus* (Fabricius, 1798)

New Data: 16 ex., 3 km south of Bachkovo, 650 m, reared from the apical part of a dry stem of *Pinus sylvestris* L., 21.IV. – 07.V.2002, D. Doychev leg.; 1 ex., near Martsiganitsa Hut, 1400 m, reared from dry branches of *Pinus nigra* Arn., 20.IV. – 26.IX.2002, D. Doychev leg. P.

***Cryphalus abietis* (Ratzeburg, 1837)**

CHORBADJIEV (1924): on *Abies alba* Mill. CHORBADJIEV (1927): Chehlyovo, Byala Cherkva, on *Picea abies* Karst., *Abies alba* Mill. TSCHORBADJIEV (1929): on *Picea abies* Karst., *Abies alba* Mill., *Pinus sylvestris* L. P.

***Cryphalus piceae* (Ratzeburg, 1837)**

CHORBADJIEV (1924): on *Abies alba* Mill. CHORBADJIEV (1927): Velingrad, Chehlyovo, Byala Cherkva, on *Picea abies* Karst., *Abies alba* Mill., *Pinus sylvestris* L. TSCHORBADJIEV (1929): Yundola, Velingrad, Chehlyovo, Byala Cherkva, on *Picea abies* Karst., *Abies alba* Mill., *Pinus sylvestris* L. P.

***Cryphalus saltuarius* Weise, 1891**

CHORBADJIEV (1924): on *Abies alba* Mill. CHORBADJIEV (1927): Darkovo, on *Picea abies* Karst., *Abies alba* Mill. TSCHORBADJIEV (1929): on *Picea abies* Karst. E.

***Crypturgus cinereus* (Herbst, 1793)**

CHORBADJIEV (1924): *Picea abies* Karst. CHORBADJIEV (1927): Beglika Place, on *Pinus sylvestris* L. TSCHORBADJIEV (1929): on *Pinus sylvestris* L., *Abies alba* Mill.

New Data: 35 ex., 5 km west of Shiroka Laka, 1100 m, hand collection under the bark of logs of *Pinus nigra* Arn., 16.V.2002, D. Doychev leg.; 4 ex., above Chervenata Stena Reserve, 1450 m, hand collection under the bark of dry stems of *Pinus nigra* Arn., 19.X.2001, D. Doychev leg. P.

***Crypturgus hispidulus* Thomson, 1870**

CHORBADJIEV (1927): Beglika Place, on *Pinus sylvestris* L., *Picea abies* Karst. TSCHORBADJIEV (1929): Yundola Place, Malka Syutkya Peak, on *Picea abies* Karst. E.

***Crypturgus pusillus* (Gyllenhal, 1813)**

CHORBADJIEV (1927): on *Pinus sylvestris* L., *P. nigra* Arn., *Picea abies* Karst., *Abies alba* Mill. TSCHORBADJIEV (1929).

New Data: 9 ex., 5 km west of Shiroka Laka, 1100 m, hand collection under the bark of logs of *Pinus nigra* Arn., 16.V.2002, D. Ovcharov & D. Doychev leg. H.

***Dendroctonus micans* (Kugelann, 1794)**

PFEFFER (1994). E.

***Dryocoetes autographus* (Ratzeburg, 1837).**

YOAKIMOV (1904) (sub *Bostrychus a.*): Alabak Ridge, on *Picea abies* Karst. CHORBADJIEV (1924): on *Picea abies* Karst., *Abies alba* Mill., *Pinus* spp. CHORBADJIEV (1927): repeated old data. TSCHORBADJIEV (1929): repeated old data. H.

***Dryocoetes hectographus* Reitter, 1913**

CHORBADJIEV (1927): Chehlyovo, Beglika Places, on *Picea abies* Karst. TSCHORBADJIEV (1929): repeated old data. E.

*****Ernoporicus caucasicus* (Lindemann, 1876)**

New Data: 3 ex., Lukovitsa River, 6 km south of Asenovgrad, 250 m, hand collection under the bark of a dry branch of *Tilia tomentosa* Moench, 24.IV.2005, D. Doychev leg.; 7 ex., the same place, reared from a broken branch of *Tilia tomentosa* Moench, 24.IV. – 07.IX.2005, D. Doychev leg. M.

***Ernoporicus fagi* (Fabricius, 1798)**

CHORBADJIEV (1924) (sub *Ernoporus f.*): on *Picea abies* Karst. CHORBADJIEV (1927) (sub *Ernoporus f.*): Byala Cherkva, on *Fagus silvatica* L. TSCHORBADJIEV (1929) (sub *Ernoporus f.*): repeated old data.

New Data: 1 ex., near Byala Cherkva Mountain Resort, 1500 m, in a pheromone trap for *Ips typographus* L., 27.V. – 17.VI.2004, D. Doychev leg.; 1 ex., the same place, reared from a dry branch of *Fagus silvatica* L., 23.IV. – 18.V.2005, D. Doychev leg. E.

***Hylastes angustatus* (Herbst, 1793)**

CHORBADJIEV (1924): on *Pinus* spp. CHORBADJIEV (1927): on *Pinus sylvestris* L. E.

***Hylastes ater* (Paykull, 1800)**

CHORBADJIEV (1924): on *Pinus* spp., *Picea abies* Karst. CHORBADJIEV (1927): on *Picea abies* Karst., *Pinus sylvestris* L. TSCHORBADJIEV (1929): Chehlyovo, Beglika, Semiza Places, Syutkya Peak, on *Picea abies* Karst., *Pinus sylvestris* L., *P. nigra* Arn.

New Data: 1 ex., 5 km west of Shiroka Laka, 1100 m, hand collection under the bark of logs of *Pinus nigra* Arn., 16.V.2002, D. Ovcharov & D. Doychev leg.; 5 ex., near Byala Cherkva Mountain Resort, 1500 m, hand collection under the bark of logs of *Pinus sylvestris* L., 16.V.2003, D. Ovcharov & D. Doychev leg.; 44 ex., the same place, in pheromone traps for *Ips typographus* L., 14.V. – 16.VII.2004, D. Doychev leg. E.

***Hylastes attenuatus* Erichson, 1836**

DOYCHEV & KUHTEV (2003): Shiroka Laka: on *Pinus nigra* Arn.

New Data: 1 ex., near Byala Cherkva Mountain Resort, 1500 m, hand collection under the bark of logs of *Pinus sylvestris* L., 16.V.2003, D. Ovcharov & D. Doychev leg.; 16 ex., the same place, in pheromone traps for *Ips typographus* L., 14.V. – 04.VII.2004, D. Doychev leg.; 2 ex., 3 km south of Byala Cherkva Mountain Resort, 1500 m, in pheromone traps for *Ips acuminatus* Gyll., 04.VII. – 16.VII.2004, D. Doychev leg. E.

***Hylastes cunicularius* Erichson, 1836**

CHORBADJIEV (1924): on *Pinus* spp. CHORBADJIEV (1927): Semiza Place, Malka Syutkya Peak, on *Picea abies* Karst. TSCHORBADJIEV (1929): repeated old data. E.

***Hylastes opacus* Erichson, 1836**

CHORBADJIEV (1927): on *Pinus sylvestris* L., *P. nigra* Arn. TSCHORBADJIEV (1929): repeated old data. E.

****Hylesinus toranio* (Danthoine, 1788)**

New Data: 310 ex., Lukovitsa River, 6 km south of Asenovgrad, 250 m, reared from dry branches of *Fraxinus ornus* L., 24.IV. – 28.VI.2005, D. Doychev leg. M.

***Hylurgops palliatus* (Gyllenhal, 1813)**

CHORBADJIEV (1924): *Pinus* spp., *Abies alba* Mill. CHORBADJIEV (1927): on *Picea abies* Karst., *Abies alba* Mill., *Pinus sylvestris* L., *P. nigra* Arn. TSCHORBADJIEV (1929): repeated old data. ZASHEV (1952): on *Pinus sylvestris* L. TSANKOV et al. (1997): "Beslet" State Forestry, on *Pinus sylvestris* L.

New Data: 2 ex., 5 km west of Shiroka Laka, 1100 m, hand collection under the bark of logs of *Pinus nigra* Arn., 16.V.2002, D. Ovcharov & D. Doychev leg.; 17 ex., near Byala Cherkva Mountain Resort, 1500 m, hand collection under the bark of logs of *Pinus sylvestris* L., 16.V.2003, D. Ovcharov & D. Doychev leg.; 2 ex., Sokolovtsi Vill., 8 km north-east of Smolyan, 1000 m, hand collection under the bark of logs of coniferous trees, 16.VII.2005, E. Chehlarov & B. Guéorguiev leg. P.

***Hypoborus ficus* Erichson, 1836**

CHORBADJIEV (1927): Asenovgrad, Dolni Voden, on *Ficus carica* L. TSCHORBADJIEV (1929): repeated old data.

New Data: 9 ex., Bachkovo Vill., 320 m, hand collection under the bark of dry twigs of *Ficus carica* L., 21.IV.2002, D. Doychev leg. M.

***Ips acuminatus* (Gyllenhal, 1827)**

CHORBADJIEV (1924): on *Pinus* spp. CHORBADJIEV (1927): Yundola, Chehlyovo, Beglika, Byala Cherkva Places, on *Pinus sylvestris* L. TSCHORBADJIEV (1929): Yundola, Chehlyovo, Beglika, Byala Cherkva Places, on *Pinus sylvestris* L., *P. nigra* Arn. RUSKOV (1928): Baliolu River, on *Pinus sylvestris* L. STEFANOV (1932): Karlashka River, on *Pinus sylvestris* L. DIMITROFF (1935): repeated old data. STEFANOV (1946): Beslet State Forestry, on *Pinus sylvestris* L. STEFANOV (1948, 1948 a): near Dospat and Peshtera, on *Pinus sylvestris* L. ZASHEV (1949/50): South-Western Rhodopes, on *Pinus sylvestris* L. ZASHEV (1952): repeated old data. TSANKOV (1961): Tuzlata, Medeni Polyani Places, on *Pinus sylvestris* L. ZANKOV (1961): near Selishte, on *Pinus sylvestris* L. TSANKOV et al. (1997): Selishte, Borino, Devin, on *Pinus sylvestris* L.

New Data: 8 ex., near Shiroka Laka, 1400 m, hand collection under the bark of a stem of dry *Pinus sylvestris* L., 02.XI.2001, D. Doychev leg.; 1 ex., near Byala Cherkva Mountain Resort, 1500 m, hand collection under the bark of a burnt stem of *Pinus sylvestris* L., 09.XI.2001, D. Doychev leg.; 47 ex., the same place, hand collection under the bark of branches of dry *Pinus sylvestris* L., 16.V.2003, D. Doychev leg.; 6 ex. (1 ♂, 5 ♀♀), the same place, in pheromone traps for *Ips typographus* L., 14.V. – 16.VII.2004, D. Doychev leg. P.

***Ips amitinus* (Eichhoff, 1871)**

CHORBADJIEV (1927): on *Pinus sylvestris* L. TSCHORBADJIEV (1929): Beglika Place, 1500 m, on *Pinus sylvestris* L., *P. nigra* Arn. TSANKOV et al. (1997): Borino, on *Pinus sylvestris* L. E.

*****Ips mannsfeldi* (Wachtl, 1879)**

New Data: 57 ex., (14 ♂♂, 43 ♀♀), 3 km south of Byala Cherkva Mountain Resort, 1500 m, hand collection under the bark of a stem of *Pinus nigra* Arn. (cut down in July, 2004), 30.VIII.2004, D. Ovcharov & D. Doychev leg.; 45 ex., (21 ♂♂, 24 ♀♀), the same place, reared from branches of *Pinus nigra* Arn., 30.VIII.2004 - 17.IX.2005, D. Doychev leg. M.

***Ips sexdentatus* (Börner, 1776)**

CHORBADJIEV (1924): on *Pinus* spp. TSCHORBADJIEV (1929): on *Pinus sylvestris* L. *P. nigra* Arn., *Picea abies* Karst. RUSKOV (1928): Rakitovo, on *Pinus* spp. RUSKOV (1928 à): Dospat, Rakitovo, on *Pinus sylvestris* L. DIMITROFF (1935): Yundola, Baliolu Place, on *Pinus sylvestris* L. STEFANOV (1948, 1948 a): on *Pinus sylvestris* L.

New Data: 2 ex., near Shiroka Laka, 1400 m, hand collection under the bark of a stem of dry *Pinus nigra* Arn., 02.XI.2001, D. Doychev leg.; 9 ex., near Byala Cherkva Mountain Resort, 1500 m, hand collection under the bark of a burnt stem of *Pinus sylvestris* L., 09.XI.2001, D. Doychev leg.; 3 ex., the same place, hand collection under the bark of logs of *Pinus sylvestris* L., 16.V.2003, D. Ovcharov & D. Doychev leg.; 2 ex., the same place, in pheromone traps for *Ips typographus* L., 14.V. - 29.VIII.2004, D. Doychev leg.; 2 ex., 3 km south of Byala Cherkva Mountain Resort, 1500 m, in pheromone traps for *Ips acuminatus* Gyll., 27.V.2004, D. Doychev leg.; 5 ex., Sokolovtsi Vill., 8 km north-east of Smolyan, 1000 m, hand collection under the bark of logs of coniferous trees, 16.VII.2005, E. Chehlarov & B. Guéorguiev leg. P.

***Ips typographus* (Linnaeus, 1758)**

YOAKIMOV (1904) (sub *Bostrychus t.*): Alabak Ridge, on *Picea abies* Karst. CHORBADJIEV (1924): on *Pinus* spp., *Picea abies* Karst., *Abies alba* Mill. CHORBADJIEV (1927): on *Picea abies* Karst., *Pinus sylvestris* L. TSCHORBADJIEV (1929): repeated old data. DIMITROFF (1935): near Velingrad, Yundola, on *Picea abies* Karst. TSANKOV & TOMOVSKY (1985): near Shiroka Laka, over 20 000 ex. in pheromone traps.

New Data: 6 ex., Shiroka Laka, 1300 m, hand collection under the bark of logs of *Picea abies* Karst., 01.XI.2001, D. Doychev leg.; 154 ex., near Byala Cherkva Mountain Resort, 1500 m, in pheromone traps for *Ips typographus* L., 14.V. - 29.VIII.2004, D. Doychev leg.; 4 ex., the same place, hand collection under the bark of logs of *Pinus sylvestris* L., 16.V.2003, D. Ovcharov & D. Doychev leg.; 11 ex., Sokolovtsi Vill., 8 km north-east of Smolyan, 1000 m, hand collection under the bark of logs of coniferous trees, 16.VII.2005, E. Chehlarov & B. Guéorguiev leg. E.

***Orthotomicus erosus* (Wollaston, 1857)**

CHORBADJIEV (1927): Yundola, Chehlyovo, Beglika, Malka Syutka Peak, on *Pinus sylvestris* L., *P. nigra* Arn. TSCHORBADJIEV (1929): repeated old data. RUSKOV (1928) (sub *Ips e.*): Rakitovo, on *Pinus sylvestris* L. STEFANOV (1932) (sub *Ips e.*): Karlashka River, on *Pinus sylvestris* L.

New Data: 3 ex., above Chervenata Stena Reserve, 1450 m, hand collection under the bark of a dry stem of *Pinus nigra* Arn., 19.X.2001, D. Doychev leg.; 4 ex., near Martsiganitsa Hut, 1400 m, hand collection under the bark of a dry stem of *Pinus sylvestris* L., 19.X.2001, D. Doychev leg. M.

***Orthotomicus laricis* (Fabricius, 1792)**

CHORBADJIEV (1927): on *Pinus sylvestris* L., *P. nigra* Arn. TSCHORBADJIEV (1929): repeated old data.

New Data: 9 ex., near Byala Cherkva Mountain Resort, 1500 m, hand collection under the bark of a burnt stem of *Pinus sylvestris* L., 09.XI.2001, D. Doychev leg.; 36 ex., the same place, hand collection under the bark of a stump of *Picea abies* Karst., 29.VIII.2004, D. Doychev & D. Ovcharov leg.; 1 ex., the same place, 1500 m, hand collection under the bark of a stump of *Pinus sylvestris* L., 29.VIII.2004, D. Doychev & D. Ovcharov leg.; 2 ex., the same place, hand collection under the bark of logs of *Pinus sylvestris* L., 16.V.2003, D. Ovcharov & D. Doychev leg.; 10 ex., Sokolovtsi Vill., 8 km north-east of Smolyan, 1000 m, hand collection under the bark of logs of coniferous trees, 16.VII.2005, E. Chehlarov & B. Guéorguiev leg. P.

***Orthotomicus longicollis* (Gyllenhal, 1827)**

CHORBADJIEV (1927): on *Pinus sylvestris* L. TSCHORBADJIEV (1929): Beglika, 1 ♀ on *Pinus sylvestris* L.

New Data: 2 ex. (1 ♂, 1 ♀), near Martsiganitsa Hut, 1400 m, in pheromone traps for *Ips sexdentatus* Börn., 09.V. – 14.VI.2002, D. Kuhtev leg. P.

***Orthotomicus proximus* (Eichhoff, 1867)**

CHORBADJIEV (1924) (sub *Ips p.*): on *Picea abies* Karst. CHORBADJIEV (1927): Chehlyovo, Beglika, Alan Dere, on *Pinus sylvestris* L. TSCHORBADJIEV (1929): Beglika, Yundula, on *Pinus sylvestris* L.

New Data: 3 ex., (1 ♂, 2 ♀♀), near Shiroka Laka, 1400 m, hand collection under the bark of a stem of dry *Pinus sylvestris* L., 02.XI.2001, D. Doychev leg.; 13 ex. (3 ♂♂, 10 ♀♀), near Byala Cherkva Mountain Resort, 1500 m, hand collection under the bark of logs of *Pinus sylvestris* L., 16.V.2003, D. Ovcharov & D. Doychev leg. P.

***Orthotomicus robustus* (Knotek, 1899)**

CHORBADJIEV (1927): on *Pinus sylvestris* L. TSCHORBADJIEV (1929): Yundola, Chehlyovo, Beglika, Malka Syutka Peak, on *Pinus sylvestris* L.

New Data: 1 ex., Bachkovo Monastery, 370 m, IV.1956, A. Pfeffer leg. et det. (coll. UFS). E.

***Orthotomicus suturalis* (Gyllenhal, 1827)**

CHORBADJIEV (1927): Chehlyovo, Beglika, on *Pinus sylvestris* L. TSCHORBADJIEV (1929): Chehlyovo, Beglika, 2 ♂♂, 1 ♀ on *Pinus sylvestris* L. RUSKOV (1928a) (sub *Ips s.*): Baliolu River, on *Pinus sylvestris* L. DIMITROFF (1935) (sub *Ips s.*): repeated old data.

New Data: 15 ex., near Byala Cherkva Mountain Resort, 1500 m, hand collection under the bark of a burnt stem of *Pinus sylvestris* L., 09.XI.2001, D. Doychev leg.; 2 ex., the same place, hand collection under the bark of logs of *Pinus sylvestris* L., 16.V.2003, D. Ovcharov & D. Doychev leg.; 3 ex., Sokolovtsi Vill., 8 km north-east of Smolyan, 1000 m, hand collection under the bark of logs of coniferous trees, 16.VII.2005, E. Chehlarov & B. Guéorguiev leg. P.

***Phloeotribus hercegovinensis* Seitner, 1920**

PFEFFER (1972) (sub *Phloeophthorus h.*): on *Cytisus veldeni* Vis. M.

****Phloeotribus muricatus* (Eggers 1929)**

New Data: 8 ex., near the inflow of Lukovitsa River into Chepelarska River, 6 km south of Asenovgrad, 250 m, hand collection under the bark of dry twigs of *Fraxinus ornus* L., 22.IV.2005, D. Doychev leg.; 9 ex., Chervenata Stena Reserve, near Bachkovo, 320 m, hand collection under the bark of a dry branch of *Fraxinus ornus* L., 22.IV.2005, D. Doychev leg. E.

***Pityogenes bidentatus* (Herbst, 1784)**

CHORBADJIEV (1924): on *Pinus* spp. CHORBADJIEV (1927): on *Pinus sylvestris* L., *P. nigra* Arn., *Picea abies* Karst., *Abies alba* Mill. TSCHORBADJIEV (1929): repeated old data. DIMITROFF (1935): Yundola, on *Pinus sylvestris* L. STEFANOV (1946): "Beslet" State Forestry, on *Pinus sylvestris* L. STEFANOV (1948, 1948 a) (sub *P. bidens* L.): near Dospat, on *Pinus sylvestris* L.

New Data: 6 ex., (5 ♂♂, 1 ♀), near Shiroka Laka, 1400 m, hand collection under the bark of branches of dry *Pinus sylvestris* L., 02.XI.2001, D. Doychev leg.; 28 ex. (16 ♂♂, 12 ♀♀), Byala Cherkva Mountain Resort, 1500 m, reared from dry branches of *Pinus sylvestris* L., 16.V. – 02.IX.2003, D. Doychev leg.; 32 ex. (17 ♂♂, 15 ♀♀), the same place, reared from dry branches of *Pinus sylvestris* L., 29.VIII. – 04.XI.2004, D. Doychev leg.; 11 ex. (5 ♂♂, 6 ♀♀), near the same place, 1500 m, in pheromone traps for *Ips typographus* L., 14.V – 04.VII.2004, D. Doychev leg.; 3 ex. (1 ♂, 2 ♀♀), 5 km south-east of Yundola, 1150 m, hand collection under the bark of branches of dry *Pinus sylvestris* L., 19.X.2005, D. Doychev leg. P.

***Pityogenes bistridentatus* (Eichhoff, 1878)**

CHORBADJIEV (1927): Dolni Voden, Byala Cherkva, on *Pinus sylvestris* L., *P. nigra* Arn. CHORBADJIEV (1927): (sub *P. pilidens* Reitt.): on *Pinus sylvestris* L., *P. nigra* Arn. TSCHORBADJIEV (1929): repeated old data. RUSKOV (1928): Baliolu River, on *Pinus sylvestris* L.

New Data: 1 ex. (♀), above Chervenata Stena Reserve, 1400 m, hand collection under the bark of a stem of dry *Pinus nigra* Arn., 19.X.2001, D. Doychev leg.; 2 ex. (1 ♂, 1 ♀), 3 km south of Bachkovo, 650 m, reared from the branches and apical part of a stem of dry *Pinus sylvestris* L., 21.IV. – 26.IX.2002, D. Doychev leg.; 4 ex. (♀♀), 3 km south of Byala Cherkva Mountain Resort, 1500 m, hand collection under the bark of a stem of dry *Pinus nigra* Arn., 23.IV.2005, D. Doychev leg. 131 ex. (38 ♂♂, 93 ♀♀), Chervenata Stena Reserve, near Bachkovo, 320 m, reared from branches of dry *Pinus nigra* Arn., 22.IV. – 30.VIII.2005, D. Doychev leg. M.

***Pityogenes chalcographus* (Linnaeus, 1761)**

CHORBADJIEV (1924): on *Picea abies* Karst., *Abies alba* Mill., *Pinus* spp. CHORBADJIEV (1927): on *Pinus sylvestris* L., *Picea abies* Karst., *Abies alba* Mill. TSCHORBADJIEV (1929): on *Pinus sylvestris* L., *P. nigra* Arn., *Picea abies* Karst., *Abies alba* Mill.

New Data: 57 ex. (27 ♂♂, 30 ♀♀), Byala Cherkva Mountain Resort, 1500 m, reared from branches of windfall *Pinus sylvestris* L., 29.VIII. – 02.XI.2004, D. Doychev

leg.; 1 ex. (♂), near the same place, in pheromone trap for *Ips typographus* L., 27.V – 17.VI.2004, D. Doychev leg.; 1 ex. (♀), near Shiroka Laka, 1400 m, hand collection under the bark of a stem of dry *Pinus sylvestris* L., 02.XI.2001, D. Doychev leg. E.

***Pityogenes quadridens* (Hartig, 1834)**

CHORBADJIEV (1924): on *Pinus* spp., *Picea abies* Karst. CHORBADJIEV (1927): repeated old data. TSCHORBADJIEV (1929): repeated old data. ZASHEV (1949/50): South-Western Rhodopes, on *Pinus sylvestris* L. ZASHEV (1952): repeated old data. TSANKOV et al. (1997): Selishte, Borino, on *Pinus sylvestris* L.

New Data: 5 ex. (4 ♂♂, 1 ♀), Byala Cherkva Mountain Resort, 1500 m, reared from branches of windfall *Pinus sylvestris* L., 29.VIII. – 24.IX.2004, D. Doychev leg. E.

***Pityogenes trepanatus* (Nördlinger, 1848)**

DOYCHEV & KUHTEV (2003): Martsiganitsa Hut, 1400 m, on *Pinus nigra* Arn.

New Data: 43 ex. (18 ♂♂, 25 ♀♀), 3 km south of Byala Cherkva Mountain Resort, 1500 m, reared from branches of *Pinus nigra* Arn. (cut down in July, 2004), 23.IV. – 20.VII.2005, D. Doychev leg.; 4 ex. (♀♀), the same place, in pheromone trap for *Ips acuminatus* Gyll., 04.VII – 29.VIII.2004, D. Doychev leg. E.

***Pityokteines curvidens* (Germar, 1824)**

CHORBADJIEV (1924) (sub *Ips* C.): on *Picea abies* Karst., *Abies alba* Mill., *Pinus* spp. CHORBADJIEV (1927): on *Picea abies* Karst., *Abies alba* Mill., *Pinus sylvestris* L. RUSSKOFF (1927) (sub *Ips* C.): Rakitovo, on *Abies alba* Mill. TSCHORBADJIEV (1929): repeated old data. DIMITROFF (1935) (sub *Ips* C.): Rakitovo, Chehlyovo, on *Abies alba* Mill. P.

***Pityokteines vorontzowi* (Jakobson, 1895)**

CHORBADJIEV (1927) (sub *P. vorontzovi* ! Jakobs.): Yundola, on *Pinus sylvestris* L. RUSSKOFF (1927) (sub *Ips Vorontzovi*): Rakitovo, on *Abies alba* Mill. TSCHORBADJIEV (1929): Yundola, 4 ex. on *Pinus sylvestris* L. DIMITROFF (1935) (sub *Ips V* !): Rakitovo, Chehlyovo, on *Abies alba* Mill. E.

****Pityophthorus glabratus* Eichhoff, 1878**

New Data: 2 ex. (♀♀), 3 km south of Byala Cherkva Mountain Resort, 1500 m, reared from branches of *Pinus nigra* Arn. (cut down in July, 2004), 23.IV. – 03.VI.2005, D. Doychev leg.; 15 ex., near Martsiganitsa Hut, 1400 m, reared from twigs of dry *Pinus nigra* Arn., 20.IV. – 26.IX.2002, D. Doychev leg. E.

***Pityophthorus lichtensteinii* (Ratzeburg, 1837).**

CHORBADJIEV (1924): on *Pinus* spp.

New Data: 2 ex., Byala Cherkva Mountain Resort, 1500 m, hand collection under the bark of dry branches of *Pinus sylvestris* L., 16.V.2003, D. Doychev leg.; 4 ex., (♂♂), the same place, reared from twigs of *Pinus nigra* Arn. (cut down in July, 2004), 23.IV. – 03.VI.2005, D. Doychev leg. E.

***Pityophthorus pityographus pityographus* (Ratzeburg, 1837)**

CHORBADJIEV (1924) (sub *P. micrographus* L.): on *Pinus sylvestris* L., *Picea abies* Karst. CHORBADJIEV (1927) (sub *P. pityographus* Ratz.): on *Picea abies* Karst., *Abies alba* Mill. TSCHORBADJIEV (1929) (sub *P. pityographus* Ratz.): near Hvoyna, on *Picea abies* Karst., *Abies alba* Mill., *Pinus sylvestris* L., *P. nigra* Arn.

New Data: 6 ex. (♀♀), 3 km south of Byala Cherkva Mountain Resort, 1500 m, reared from branches of *Pinus nigra* Arn. (cut down in July, 2004), 23.IV. – 07.VI.2005, D. Doychev leg.; 34 ex. (12 ♂♂, 22 ♀♀), Byala Cherkva Mountain Resort, 1500 m, reared from branches of windfall *Pinus sylvestris* L., 29.VIII. – 02.XI.2004, D. Doychev leg. E.

***Scolytus amygdali* Guerin, 1847**

CHORBADJIEV (1927) (sub *Eccoptogaster a.*): Asenovgrad, on *Prunus domestica* L., *Armeniaca vulgaris* Lam., *Persica vulgaris* Mill. TSCHORBADJIEV (1929) (sub *Eccoptogaster a.*): Asenovgrad, on *Armeniaca vulgaris* Lam., *Prunus domestica* L., *Persica vulgaris* Mill., *Cerasus avium* Moench., *C. vulgaris* Mill. CHORBADJIEV (1930): repeated old data. M.

***Scolytus mali* (Bechstein, 1805)**

TSCHORBADJIEV (1929) (sub *Eccoptogaster m.*): Asenovgrad, on *Malus domestica* Borkh., *Cerasus avium* Moench., *Prunus domestica* L., *Armeniaca vulgaris* Lam., *Persica vulgaris* Mill. CHORBADJIEV (1930): Asenovgrad, on *Armeniaca vulgaris* Lam., *Prunus domestica* L., *Persica vulgaris* Mill., *Cerasus avium* Moench., *C. vulgaris* Mill., *Malus domestica* Borkh. P.

***Scolytus rugulosus* (Muller, 1818)**

TSCHORBADJIEV (1929) (sub *Eccoptogaster r.*): Peshtera, Asenovgrad, on *Prunus domestica* L., *P. spinosa* L., *P. insititia* L., *Armeniaca vulgaris* Lam., *Persica vulgaris* Mill., *Amygdalis communis* L., *Cerasus avium* Moench., *C. vulgaris* Mill., *Malus domestica* Borkh., *Cydonia oblonga* Mill. CHORBADJIEV (1930): repeated old data. H.

****Taphrorychus villifrons* (Dufour, 1843)**

New Data: 271 ex. (115 ♂♂, 156 ♀♀), Byala Cherkva Mountain Resort, 1500 m, reared from cut branches of *Fagus sylvatica* L., 23.IV. – 26.IX.2005, D. Doychev leg.; 3 ex. (1 ♂, 2 ♀♀), 5 km south-east of Yundola, 1150 m, hand collection under the bark of a dry branch of *Fagus sylvatica* L., 19.X.2005, D. Doychev leg. M.

***Tomicus minor* (Hartig, 1834)**

CHORBADJIEV (1924) (sub *Myelophilus m.*): on *Pinus* spp. CHORBADJIEV (1927) (sub *Blastophagus m.*): on *Pinus sylvestris* L., *P. nigra* Arn. TSCHORBADJIEV (1929) (sub *Blastophagus m.*): repeated old data. STEFANOV (1932) (sub *Myelophilus m.*): Karlashka River, on *Pinus sylvestris* L. DIMITROFF (1935) (sub *Blastophagus m.*). STEFANOV (1946) (sub *Myelophilus m.*): “Beslet” State Forestry, on *Pinus sylvestris* L. STEFANOV (1948 a) (sub *Blastophagus m.*): Katrandji Dere River, on *Pinus sylvestris* L. STEFANOV (1957) (sub *Blastophagus m.*): Snezhanka Place, Dospatska Reka River.

New Data: 1 ex., 3 km south of Byala Cherkva Mountain Resort, 1500 m, hand collection from a twig of *Pinus nigra* Arn., 16.VII.2004, D. Doychev leg. P.

***Tomicus piniperda* (Linnaeus, 1758)**

CHORBADJIEV (1924) (sub *Blastophagus p.* var. *rubripennis* Reitt.): on *Pinus* spp.
 CHORBADJIEV (1927) (sub *Blastophagus p.* var. *rubripennis* Reitt.): Velingrad, Chehlyovo, Beglika, Byala Cherkva, on *Pinus sylvestris* L., *P. nigra* Arn. TSCHORBADJIEV (1929) (sub *Blastophagus p.* L.): repeated old data. RUSKOV (1928) (sub *Myelophilus p.*): Baliolu River, Dospat, on *Pinus sylvestris* L. STEFANOV (1932) (sub *Myelophilus p.*): Karlashka Reka River, on *Pinus sylvestris* L. DIMITROFF (1935) (sub *Blastophagus p.*): repeated old data. STEFANOV (1946) (sub *Myelophilus p.*): "Beslet" State Forestry, on *Pinus sylvestris* L. STEFANOV (1948, 1948 a) (sub *Blastophagus p.*): Shiroka polyana, Selishte, on *Pinus sylvestris* L. STEFANOV (1950): repeated old data. STEFANOV (1957) (sub *Blastophagus p.*): repeated old data. ZASHEV (1949/50) (sub *Blastophagus p.*): South-Western Rhodopes; on *Pinus sylvestris* L. ZASHEV (1952): repeated old data. TSANKOV et al. (1997): Pobit Kamak, Hamam Bunar Places, Devin, on *Pinus sylvestris* L.

New Data: 17 ex., near Byala Cherkva Mountain Resort, 1500 m, hand collection under the bark of logs of *Pinus sylvestris* L., 16.V.2003, D. Ovcharov & D. Doychev leg.; 4 ex., the same place, in pheromone traps for *Ips typographus* L., 14.V. - 17.VI.2004, D. Doychev leg. P.

***Trypodendron lineatum* (Olivier, 1795)**

CHORBADJIEV (1924) (sub *Xyloterus lineatus* Oliv.): on *Quercus* spp. CHORBADJIEV (1927) (sub *Xyloterus lineatus* Oliv.): *Picea abies* Karst. TSCHORBADJIEV (1929) (sub *Xyloterus lineatus* Oliv.): repeated old data. TSANKOV et al. (1997): Borino, "Beslet" State Forestry, on *Pinus sylvestris* L.

New Data: 7 ex., near Byala Cherkva Mountain Resort, 1500 m, hand collection in the wood of a stump of *Picea abies* Karst., 29.VIII.2004, D. Ovcharov & D. Doychev leg.; 2 ex., the same place, in pheromone traps for *Ips typographus* L., 14.V. - 17.VI.2004, D. Doychev leg. H.

***Xyleborus dispar* (Fabricius, 1792)**

TSCHORBADJIEV (1929) (sub *Anisandrus d.* Fabr.): Asenovgrad, on *Malus domestica* Borkh., *Prunus domestica* L., *Armeniaca vulgaris* Lam., *Juglans regia* L., *Vitis vinifera* L.

New Data: 5 ex. (♀♀), Bachkovo, 320 m, hand collection, in flight, 12.V.2004, D. Doychev leg. H.

****Xyleborus dryographus* (Ratzeburg, 1837)**

New Data: 1 ex. (♀), Bachkovo, 320 m, hand collection, in flight, 12.V.2004, D. Doychev leg. P.

***Xyleborus monographus* (Fabricius, 1792)**

CHORBADJIEV (1924): on *Quercus* spp. CHORBADJIEV (1927): on *Picea abies* Karst. TSCHORBADJIEV (1929): 3 ♀♀ on *Quercus cerris* L.

New Data: 1 ex. (♀), 3 km south of Bachkovo, 650 m, in pheromone trap for *Ips sexdentatus* Boern., 26.VI. - 07.VII.2002, D. Kuhtev leg. P.

***Xyleborinus saxeseni* (Ratzeburg, 1837)**

CHORBADJIEV (1924) (sub *Xyleborus saxeseni*): on *Fagus silvatica* L. CHORBADJIEV (1927) (sub *X. saxeseni*): Asenovgrad, on *Malus domestica* Borkh., *Armeniaca vulgaris* Lam. TSCHORBADJIEV (1929) (sub *Xyleborunus saxeseni* ! Ratz.): Asenovgrad, on *Vitis vinifera* L.

New Data: 1 ex. (♀), Bachkovo, 320 m, hand collection, in flight, VII.2001, D. Kuhtev leg.; 1 ex. (♀), 3 km south of Bachkovo, 650 m, in a pheromone trap for *Ips sexdentatus* Börn., 26.VI. – 07.VII.2002, D. Kuhtev leg. H.

***Xylocleptes bispinus* (Duftschmid, 1825)**

CHORBADJIEV (1924).

New Data: 2 ex. (1♂, 1♀), Bachkovo, 320 m, hand collection, in flight, 11.IV.2005, D. Kuhtev leg. P.

II. Bark beetles from the Eastern Rhodopes****Carphoborus minimus* (Fabricius, 1798)**

New Data: 3 ex., Ronkite Place, 20 km south of Ivaylovgrad, 200 m, hand collection from dry twigs of *Pinus brutia* Ten., 18.IV.2003, D. Doychev leg. P.

****Crypturgus cylindricollis* Eggers, 1940**

New Data: 9 ex., 3 km north of Mandritsa Vill., 150 m, hand collection under the bark of a stem of dry *Pinus nigra* Arn., 19.IV.2003, D. Doychev leg.; 11 ex., the same place, hand collection in galleries of *Orthotomicus erosus* Woll. under the bark of a stem of dry *Pinus nigra* Arn., 12.VI.2005, D. Doychev leg.; 8 ex., near Ivaylovgrad, 200 m, hand collection under the bark of a broken stem of *Pinus nigra* Arn., 13.VI.2005, D. Doychev leg. M.

****Hylesinus toranio* (Danthoine, 1788)**

New Data: 7 ex., 3 km north of Mandritsa Vill., 150 m, hand collection under the bark of a dry stem of *Fraxinus ornus* L., 12.VI.2005, D. Doychev leg. M.

****Hypoborus ficus* Erichson, 1836**

New Data: 16 ex., Haskovo, 300 m, hand collection under the bark of a dry twig of *Ficus carica* L., 20.X.2005, D. Doychev & D. Ovcharov leg. M.

****Ips sexdentatus* (Börner, 1776)**

New Data: 1 ex., 3 km north of Mandritsa Vill., 150 m, hand collection under the bark of a stem of dry *Pinus nigra* Arn., 12.VI.2005, D. Doychev leg. P.

****Orthotomicus erosus* (Wollaston, 1857)**

New Data: 5 ex. (3 ♂♂, 2 ♀♀), Ronkite Place, 20 km south of Ivaylovgrad, 200 m, hand collection under the bark of a burnt stem of *Pinus brutia* Ten., 18.IV.2003, D. Doychev leg.; 36 ex. (15 ♂♂, 21 ♀♀), 5 km north of Mandritsa Vill., 150 m, hand collection under the bark of burnt stems of *Pinus nigra* Arn., 18.IV.2003, D. Doychev

leg.; 1 ex. (1 ♀), 3 km north of Mandritsa Vill., 150 m, hand collection under the bark of a stem of dry *Pinus nigra* Arn., 19.IV.2003, D. Doychev leg.; 5 ex. (5 ♀♀), the same place, hand collection under the bark of dry stems of *Pinus nigra* Arn., 12.VI.2005, D. Doychev leg.; 14 ex. (3 ♂♂, 11 ♀♀), above Malko Gradishte Vill., 250 m, hand collection under the bark of stems and branches of *Pinus sylvestris* L., 11.VI.2005, D. Doychev leg.; 4 ex. (3 ♂♂, 1 ♀), near Ivaylovgrad, 200 m, hand collection under the bark of a broken stem of *Pinus nigra* Arn., 13.VI.2005, D. Doychev leg. M.

****Phloeosinus aubei* (Perris, 1855)**

New Data: 4 ex. (4 ♀♀), 3 km north of Ivaylovgrad, 200 m, hand collection under the bark of a dry branch of *Sequoiadendron giganteum* (Lindl.), 11.VI.2005, D. Doychev leg. M.

****Phloeosinus thujae thujae* (Perris, 1855)**

New Data: 8 ex. (2 ♂♂, 6 ♀♀), near Dolno Lukovo Vill., 150 m, hand collection from dry twigs of *Juniperus oxycedrus* L., 11.VI.2005, D. Doychev leg. P.

****Pityogenes bistridentatus* (Eichhoff, 1878)**

New Data: 10 ex. (3 ♂♂, 7 ♀♀), 3 km north of Mandritsa Vill., 150 m, hand collection under the bark of branches of burnt *Pinus nigra* Arn., 18.IV.2003, D. Doychev leg.; 74 ex. (26 ♂♂, 48 ♀♀), 2 km south-east of Svirachi Vill., 180 m, reared from a dry stem of *Pinus nigra* Arn., 12.VI. – 17.IX.2005, D. Doychev leg.; 11 ex. (2 ♂♂, 9 ♀♀), above Malko Gradishte Vill., 250 m, hand collection under the bark of a stem of cut *Pinus sylvestris* L., 11.VI.2005, D. Doychev leg. M.

***Scolytus mali* (Bechstein, 1805)**

TSCHORBADJIEV (1929) (sub *Eccoctogaster m.*): Haskovo, on *Malus domestica* Borkh., *Cerasus avium* Moench., *Prunus domestica* L., *Armeniaca vulgaris* Lam., *Persica vulgaris* Mill. P.

***Scolytus rugulosus* (Muller, 1818)**

TSCHORBADJIEV (1929) (sub *Eccoctogaster r.*): Haskovo, on various fruit-trees.

New Data: 2 ex. (♀♀), 3 km north-west of Ivaylovgrad, 220 m, hand collection from dry twigs of *Prunus domestica* L., 11.VI.2005, D. Doychev leg. H.

According to ALONSO - ZARAZAGA (2004) *Ips mannsfeldi* (Wachtl, 1879) it occurs in Bulgaria, but no data on the species habitats or literature sources is indicated. In fact, CHORBADJIEV (1924) reported this species for the Rhodopes. However, in his next study on bark beetles in Bulgaria (CHORBADJIEV, 1927) the author remarked that *I. mannsfeldi* had to be excluded from the list of Bulgarian scolytids because of wrong identification. For this reason we regard *Ips mannsfeldi* as a new species for Bulgaria.

The other new species for the Bulgarian fauna is *Ernoporicus caucasicus* (Lindemann, 1876), which is found in Europe, Caucasus and Asia Minor.

Due to the economic importance of these beetles, the trophic links between them and the host plants are of interest.

One (1,7 %) species, *Xyloleptes bispinus*, develops on the climber *Clematis vitalba* L. (Ranunculaceae). Trees and shrubs are the host plants for the rest of the bark beetles. Forty-three species (74,1 %) develop on conifers, 12 (20,7 %) on broad-leaved and 2 species (3,5 %) are polyphags - *Xyleborus dispar* and *Xyleborinus saxesenii* both grow on various broad-leaved and coniferous trees and shrubs.

Some host plants indicated in previous studies seem questionable. Such are: *Picea abies* for *Ernoporicus fagi*, *Quercus* for *Trypodendron lineatum* according to CHORBADJIEV (1924), *Picea abies* for *Xyleborus monographus* according to CHORBADJIEV (1927) and *Cytisus veldeni* for *Phloeotribus hercegovinensis* according to PFEFFER (1972). Since they are not confirmed, they must be excluded as host plants for the respective bark beetles.

Juniperus oxycedrus L. (Cupressaceae) and *Pinus brutia* Ten. (Pinaceae) are new host plants for *Phloeosinus thujae thujae* and *Carphoborus minimus*, respectively. The latter is very interesting because it was found in the unique natural habitat of *Pinus brutia* in Bulgaria (TASHEV, 2003).

A total number of 58 species and subspecies belonging to 24 genera of bark beetles occur in the Bulgarian Rhodopes; which are 51,3 % of all known bark beetles in Bulgaria. Two species, *Ernoporicus caucasicus* and *Ips mansfeldi*, are new for the Bulgarian fauna and another 9 are new for the Rhodopes.

Six species (10,3 %) have Holarctic and 20 (34,5 %) have wide Palearctic distribution. Twenty one species (36,2 %) are Euro- and Eurosiberian and 11 species (19,0 %) are Mediterranean and sub-Mediterranean..

Twenty-three genera and 55 species and subspecies occur in the Western Rhodopes; these are 48,7 % of Scolytinae in Bulgaria, or 94,8 % of the bark beetles in the Rhodopes. Six species are reported for the first time in this region. The newly reported bark beetles for the Bulgarian fauna are also included in this number.

In the Western Rhodopes 6 species (10,9 %) are Holarctic and 19 (34,5 %) are Palearctic, the Euro- and Eurosiberian are 21 taxa (38,2 %) and 9 (16,4 %) are Mediterranean and sub-Mediterranean.

Nine genera and 11 species and subspecies occur in the Eastern Rhodopes; these are 9,7 % of Bulgarian Scolytinae, or 19,0 % of Scolytinae in the Rhodopes. Nine taxa of them are new for the region.

The Holarctic taxa include only one species (9,1 %) and the Palearctic - 4 species and subspecies (36,4 %), the Mediterranean and sub-Mediterranean species are 6 (54,5 %) , whereas the Euro- and Eurosiberian are absent.

It is interesting that the Holarctic and Palearctic elements have an almost equal share both in the Western and the Eastern Rhodopes. In the Eastern Rhodopes the species with Mediterranean and sub-Mediterranean origin are dominant. Considering the specific climate conditions, this meets expectations; but the insufficient knowledge about the Eastern Rhodopes is an obstacle for more detailed conclusions.

There are no Bulgarian or Balkan endemics of the bark beetles, occurring in the Rhodopes, but some species with more restrictive distribution in Bulgaria can be defined as "rare". Such are eight Scolytinae, arranged in 3 groups:

1. Species known in only one habitat in the Rhodopes: *Ernoporicus caucasicus*, *Ips mansfeldi*, *Phloeotribus hercegovinensis*;

2. Species known in the Rhodopes only, but in more than one habitat: *Crypturgus cylindricollis*, *Orthotomicus suturalis*, *Orthotomicus longicollis*;

3. Species, which occur both in the Rhodopes and in only one other habitat: *Dendroctonus micans*, *Orthotomicus robustus*.

With the exception of *C. cylindricollis*, these species occur in the Western Rhodopes.

D. micans was found in the Vitosha Mountain by BIOLSCHEFF (1934) and PFEFFER (1936). According to Pfeffer (1994), the Rhodopes are the southern border of its area. The same author reported *O. robustus* for the Pirin Mountain.

Taking into account both the species composition of the bark beetles in Bulgaria and neighbouring countries and the distribution of their host plants, it can be concluded that about 52 % of the bark beetles in the Rhodopes are known at present. However, this applies only to the Western Rhodopes (51 %). The knowledge about the Eastern part is quite less - about 21 %.

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Корояду (Coleoptera: Curculionidae: Scolytinae) от българската част на Родопите

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(Резюме)

В резултат на проведени през периода 2001 – 2005 г. проучвания в Източните и Западни Родопи и преглед на съществуващата литература, са установени 58 вида и подвиди от 24 рода корояди (Coleoptera: Curculionidae: Scolytinae). Те представляват 51,3 % от известните досега за България. Два вида - *Ernoporiscus caucasicus* (Lindemann, 1876) и *Ips mannsfeldi* (Wachtl, 1879) са нови за фауната на България. Други 9 са нови за Родопите.

Шест (10,3 %) от общо установените таксони са холарктични. С по-широко палеарктично разпространение са 20 таксона (34,5 %). Европейски и евросибирски са 21 (36,2 %), а медитеранските и субмедитерански видове са 11 (19,0 %).

За района на Западните Родопи установените таксони са 55 вида и подвиди от 23 рода, което е 48,7 % от короядите за страната и 94,8 % от тези за цялата планина. Тук спадат и двата новоустановени за България вида. Други 6 вида корояди се съобщават за пръв път за района. Видовете с холарктично разпространение са 6 (10,9 %), палеарктичните - 19 (34,5 %), европейски и евросибирски са 21 (38,2 %), а медитерански и субмедитерански - 9 вида (16,4 %).

За Източните Родопи установените таксони са 11 вида и подвиди от 9 рода, което представлява 9,7 % за страната и 19,0 % за Родопите. Девет от тези таксони са нови за района.

Холарктичен е един вид (9,1 %), палеарктичните са 4 (36,4 %), а преобладаващи са медитеранските и субмедитерански елементи - 6 вида (54,5 %). Европейски и евросибирски видове липсват.

Почти всички от установените корояди се развиват по различни храстови и гървесни видове и само един, *Xylocleptes bispinus* (Duftschmid, 1825) по лиани (*Clematis vitalba* L., Ranunculaceae). За 43 вида (74,1 %) хранителните растения са иглолистни, а по широколистни се развиват 12 вида (20,7 %). Два корояда (3,5 %), *Xyleborus dispar* (Fabricius, 1792) и *Xyleborinus saxesenii* (Ratzeburg, 1837) са широки полифаги - развиват се по различни широколистни и иглолистни растения.

За два вида - *Phloeosinus thujae thujae* (Perris, 1855) и *Carphoborus minimus* (Fabricius, 1798) се съобщават нови хранителни растения, съответно *Juniperus oxycedrus* L. (Cupressaceae) и *Pinus brutia* Ten. (Pinaceae).

Като редки могат да бъдат определени осем вида: *Crypturgus cylindricollis*, *Dendroctonus micans*, *Ernoporiscus caucasicus*, *Ips mannsfeldi*, *Orthotomicus longicollis*, *Orthotomicus saturalis*, *Orthotomicus robustus* и *Phloeotribus hercegovinensis*.

Отчитаеки видовия състав на короядите в България и съседните страни, както и растителното разнообразие на Родопите, може да се приеме, че до момента са проучени около 52 % от короядите в Родопите. За Западните Родопи този процент е около 51, а за Източните - 21 %.

Като цяло, короядите в Родопите са сравнително добре проучени, но това важи само за западната им част. Все още данните за Източните Родопи са твърде недостатъчни.

