

A new species of *Catops* and notes on Cholevinae (Coleoptera: Leiodidae) from Bulgaria

Nový druh rodu *Catops* a poznámky o Cholevinae (Coleoptera: Leiodidae) z Bulharska

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Taxonomy, faunistics, *Catops hanusi* sp. n., Coleoptera, Leiodidae, Cholevinae, Bulgaria

Abstract. *Catops hanusi* sp. n. from northern Bulgaria is described, illustrated and compared with other species of the *C. fuscus* species group. The male of *Catops pirinensis* Zerche, 1992 is described and the description of related *C. purkynei* Obenberger, 1917 is completed. Faunistic records of further 23 rare or interesting species of Cholevinae from Bulgaria are provided. The species *Nemadus colonoides* (Kraatz, 1851), *Anemadus strigosus strigosus* (Kraatz, 1852), *A. acicularis* (Kraatz, 1852), *Choleva nivalis* (Kraatz, 1856), *C. elongata* (Paykull, 1798), *Catopomorphus orientalis* (Aubé, 1850), *Ataephyllus illyricus* Jeannel, 1936, *A. molitori* Scheerpeltz, 1956 and *Catops fuliginosus fuliginosus* Erichson, 1837 are recorded from Bulgaria for the first time.

From Bulgaria, Cholevinae (excluding Leptodirini) have been only poorly known. Some faunistic records were given by Jeannel (1936), Szymczakowski (1960, 1962), Guéorguiev & Beron (1962), Beron (1972), Zwick (1981) and Beron (1994); a list of species distributed through Balcanian Peninsula was presented by Szymczakowski (1965), with indication for separate countries including Bulgaria. On the other hand, a lot of species were described exclusively from this country based on a single specimen (Obenberger 1917, Jeannel 1936, Roubal 1936, Zerche 1992), and our knowledge of the fauna of this group is still unadequate.

Till now, together 26 species of Cholevinae (excluding Leptodirini) have been known from the territory of Bulgaria, known distributions of four of them are restricted to this region. In this paper, records of further 10 species are provided, and the number of known species from this region is increased to 36 (Tab. 1).

Through the text, the following abbreviations are used: CJJ - collection of Jiří Janák, Rtyň nad Bílinou; CJR - author's collection; CJV - coll. Jiří Vávra, Ostrava; CKO - coll. Kamil Orszulik, Chrudim; CVK - coll. Vladimír Karas, Veselí nad Lužnicí; CZK - coll. Zdeněk Kačenka, Roudnice nad Labem; MPCC - Muséum National d'Histoire Naturelle, Paris, coll. H. Coiffait; MPCG - Muséum National d'Histoire Naturelle, Paris, coll. générale; MPCH - Muséum National d'Histoire Naturelle, Paris, coll. H. Henrot; NMP - Národní museum, Praha; TMB - Természettudományi Múzeum, Budapest. Cave names are followed by codes (when available) according to Guéorguiev & Beron (1962) and Beron (1972, 1994). The international standard was used for the transliteration from the Cyrillic characters into the Roman characters.

Nemadus colonoides (Kraatz, 1851)

Material examined. Bulgaria: Stara planina Mts. or., Nos Emine cap env., vi.1968, R. Rous lgt., valley with old oaks, in dead stump with ants, 1 ♂ (CJR); Varna distr., Albena, 14.x.1970, H. Coiffait lgt., 1 spec. (MPCC).

Species listed by Szymczakowski (1965) from Balcanian Peninsula only from Bosnia and Herzegovina. New for Bulgaria.

Eocatops pelopis (Reitter, 1885)

Material examined. Bulgaria: Rodopi Mts., Bačkovo, 13.vi.1969, P. Beron lgt., 1 ♂ 1 ♀ (MPCH). Species reported from Bulgaria only from Burgas by Jeannel (1936).

Anemadus strigosus strigosus (Kraatz, 1852)

Material examined. Bulgaria: Sandanski, 1300 m a.s.l., 9.vii.1972, Z. Kačenka lgt., cavity in *Fagus* sp., 1 ♀ (CZK).

Species very widely distributed through Balcanian Peninsula (Szymczakowski 1965, Giachino & Vailati 1993). New for Bulgaria.

Anemadus acicularis (Kraatz, 1852)

Material examined. Bulgaria: Vitoša Mts., 19.v.1939, Hlisnikowski lgt., 1 ♀ (NMP); Kresna, 9.v.1983, Z. Kačenka lgt., 1 ♀ (CZK).

Species widely distributed through Balcanian Peninsula (Szymczakowski 1965, Giachino & Vailati 1993). New for Bulgaria.

Nargus (Nargus) badius (Sturm, 1839)

Material examined. Bulgaria : Sandanski, 12-15.vi.1973, J. Horák lgt., 1 ♂ (CJR); Pirin Mts., Banderica, 6.vi.1938, Hlisnikowski lgt., 1 ♀ (NMP); Pirin Mts., Tremošnica, 1000 m a.s.l., 26.v.1974, J. Strejček lgt., valley of a small river, Fagetum, sifted, 2 ♂♂, 1 ♀ (CJR); Rila Mts., Rilski Manastir, 26.viii.1978, J. Janák lgt., Fagetum, sifted, No. 81, 2 ♂♂ (CJJ); Vitoša Mts., 19.v.1939, Hlisnikowski lgt., 9 ♂♂ 8 ♀♀ (NMP,CJR); Vitoša Mts., Zlatni Mostove, 1300 m a.s.l., 18.viii.1978, J. Janák lgt., Fagetum, sifted, No. 102, 5 ♂♂ (CJJ); Belogradčik, 30-31.v.1989, S. Bečvář lgt., 3 ♂♂, 5 ♀♀ (CJR); Stara Planina Mts. occ., Petrochan, 1600-1700 m a.s.l., 30.viii.1978, J. Janák lgt., sifted under *Juniperus*, No. 78/105, 1 ♀ (CJJ); Stara Planina, Goljama Željazna, 18.x.1970, H. Coiffait lgt., 1 ♀ (MPCC); Sozopol, 14.v.1939, Hlisnikowski lgt., 2 ♀♀ (NMP); Malko Tarnovo, 16.v.1939, Hlisnikowski lgt., 12 ♂♂ 16 ♀♀ (NMP); ditto, 17.v.1939, 17 ♂♂ 21 ♀♀ (NMP, CJR); Strandža planina Mts., Varovnik, 10.x.1970, H. Coiffait lgt., 1 ♂ (MPCC); Alibotuš [=Slavjanka] planina Mts., 15.vi.1938, Hlisnikowski lgt., 1 ♀ (NMP); ditto, 16.vi.1938, 2 ♀♀ (NMP); ditto, 16.viii.1938, 2 ♂♂ (NMP).

Species reported from Bulgaria by Jeannel (1936), Szymczakowski (1960) and Beron (1972, 1994).

Nargus (Demochrus) wilkini (Spence, 1815)

Material examined. Bulgaria : Vitoša Mts., Kopitoto, 1400 m a.s.l., 4.vi.1974, J. Strejček lgt., Fagetum, sifted, 1 ♂ (CJR); Stara Planina Mts. occ., Petrochan, 1500 m a.s.l., 30.viii.1978, J. Janák lgt., Fagetum, sifted, No. 80, 3 ♂♂ 5 ♀♀ (CJJ).

Species reported from Bulgaria only from the Rila Mts. (Szymczakowski 1962).

Nargus (Demochrus) anisotomoides (Spence, 1815)

Material examined. Bulgaria: Sozopol, 14.v.1939, Hlisnikowski lgt., 1 ♂ 2 ♀♀ (NMP); Rodopi Mts., Lepenica, 8.x.1970, H. Coiffait lgt., 2 ♂♂ (MPCC); Teteven, 18.x.1970, H. Coiffait lgt., 1 ♂ 1 ♀ (MPCC).

Species reported from Bulgaria only by Jeannel (1936).

Choleva (Cholevopsis) spadicea Sturm, 1839

Material examined. Bulgaria: Stara Planina Mts., Šipka pass, 10.vii.1973, V. Karas lgt., wet deciduous forest, sifted, 1 ♂, teneral (CJR); Gabrovo distr., Skančechan, Vodnata Veliovska peštera [=Adnaka, Gb 1], ix.1973, 1 ♀ (MPCH).

Species reported from caves in Bulgaria by Guéorguiev & Beron (1962) and Beron (1994).

Choleva (Cholevopsis) paskoviensis Reitter, 1913

Material examined. Bulgaria: Sozopol, 6.v.1985, M. Kuboň lgt., 1 ♀ (CJV).

Species reported from Bulgarian caves by Guéorguiev & Beron (1962) and Beron (1972, 1994).

Choleva (Choleva) agilis (Illiger, 1798)

Material examined. Bulgaria: Rila Mts., Musala Mt., "Čamkorija", vi.1936, Dr Purkyně lgt., 1 ♂ (coll. Hlišnikovský in NMP); Vraca distr., Kalnata dupka gulf, 27.ix.1968, P. Beron lgt., 1 ♂ 1 ♀ (MPCC); Vraca distr., Čiren env., Popudjinica gulf, 3.x.1969, P. Beron lgt., 1 ♂ 1 ♀ (MPCC); Vraca distr., Kunovo Buče, 2.x.1968, P. Beron lgt., 1 ♂ (MPCC); Nesebar env., Slančev Brjag, 4.vi.1964, A. Strejčková lgt., sea alluvia, 1 ♂ (CJR); Rodopi Mts., Dobrostan, vi.1964, J. Jelínek lgt., 1 ♂ (NMP).

Species reported from Bulgaria: Sofia by Jeannel (1936) and from caves in Vraca and Vidin districts by Guéorguiev & Beron (1962) and Beron (1972, 1994).

Choleva (Choleva) nivalis (Kraatz, 1856)

Material examined. Bulgaria: Rila Mts., Musala Mt., 18.vii.1988, K. Orszulik lgt., 1 ♀ (CKO). Species reported from Balcanian Peninsula only from Serbia (Jeannel 1936, Szymczakowski 1965). New for Bulgaria.

Choleva (Choleva) glauca Britten, 1918

Material examined. Bulgaria: Rila Mts., Rilski Manastir, 11-14.vii.1927, Dr J. Fodor lgt., 1 ♀ (TMB); Kjustendil distr., Stradalovo env., Meča dupka cave [Kl 6], 27.ii.1969, P. Beron lgt., 1 ♂ (MPCC); Jambol distr., Mramor env., Bozkite cave [Ja 1], 7.viii.1959, 1 ♀ (MPCC).

Species reported from Bulgaria only from Sandanski by Szymczakowski (1962). The specimen from Bozkite cave was erroneously determined by H. Coiffait as *C. oblonga* Latreille in (Beron 1972).

Choleva (Choleva) angustata (Fabricius, 1781)

Material examined. Bulgaria: Vitoša plan. Mts., 19.v.1939, Hlišnikowski lgt., 1 ♀ (NMP); Zeitinburun [= Varna], vi.1933, Mařan & Táborský lgt., 1 ♀ (NMP).

Species reported from Bulgaria only from Meča dupka, Graždénica and Vodnata peštera caves by Beron (1972, 1994).

Choleva (Choleva) elongata (Paykull, 1798)

Material examined. Bulgaria: Albena, 1.vi.1990, J. Batelka lgt., dead specimen near nest of ants, 1 ♀ (CJR).

Species known from central, northern and eastern Europe, from Balcanian Peninsula recorded only from one locality in Greece, Vermion Mts. (Szymczakowski 1962), one locality also known from Asia Minor, Tmolos Mts. (Szymczakowski 1970). New for Bulgaria.

Catopomorphus (Catopomorphus) orientalis (Aubé, 1850)

Material examined. Bulgaria: Pirin Mts., Razlog, v.1981, V. Karas lgt., southern slopes, under stone, 1 ♀ (CVK);

Species widely distributed through Balcanian Peninsula (Szymczakowski 1965). New for Bulgaria.

Attaephilus arenarius Hampe, 1852

Material examined. Bulgaria: S of Avsenograd, Bačkovski Manastir, 7.vii.1973, V. Karas lgt., drag in the evening, dry slope with southeastern exposition, 1 ♂ (CJR).

Species listed from Balcanian Peninsula by Szymczakowski (1965) only from Bulgaria without more details.

Attaephilus illyricus Jeannel, 1936

Material examined. Bulgaria: Sandanski, 11.v.1983, Z. Kačénka lgt., 1 ♂ (CZK); Vidin distr., Vodna env., Kurtovata peštera cave [Vd 36], 16.x.1970, P. Beron lgt., 1 ♂ (MPCC); Sozopol,

15.v.1939, Hlisnikowski lgt., 1 ♂ (coll. Hlisnikovský in NMP).

This species was previously known only from the type locality (environs of Tirnova, now in Slovenia) and is new for Bulgaria.

Attaephilus molitori Scheerpeltz, 1956

Material examined. Bulgaria: Gare Lakatnik, 19.x.1970, H. Coiffait lgt., 2 ♀♀ (MPCC).

This species was previously known only from the type locality (Perchtodsorfer Heide near Wien, Austria) and is new for Bulgaria.

Catops coracinus coracinus Kellner, 1845

Material examined. Bulgaria: Sofia, Germanski Manastir, vi.1908, Rambousek lgt., 1 ♀ (MPCG).

Species previously reported from Bulgaria by Beron (1972, 1994).

Catops nitidicollis Kraatz, 1856

Material examined. Bulgaria: "Trnova", xii.1919, Hanuš lgt., 1 ♀ (NMP); Madara, 14.vii.1928, Biró lgt., 1 ♂ (TMB).

Species previously known from Bulgaria only from the Rila Mts. (Szymczakowski 1960).

Catops grandicollis Erichson, 1837

Material examined. Bulgaria: Sofia, Krjaževo, 28.v.1908, Rambousek lgt., 1 ♂ (MPCG); Veliko Tarnovo, 30.v.1908, Rambousek lgt., 1 ♀ (MPCG); Malko Tarnovo, 16.v.1939, Hlisnikowski lgt., 1 ♂ (coll. Hlisnikovský in NMP).

Species reported from Bulgaria without more details only by Szymczakowski (1965).

Catops pirinensis Zerche, 1992

Material examined. Bulgaria: Pirin Mts., Mozgoviška gorta, 2500 m a.s.l., 22.viii.1978, J. Janák lgt., sifted from old grass on alpine meadow, No. 108, 1 ♀, teneral (CJR); Pirin Mts., Begovica, 2100 m a.s.l., 21.viii.1978, J. Janák lgt., sifted from *Sphagnum* and soil under dwarf pine, No. 78/6, 1 ♂ (CJR).

Described by Zerche (1992) from Vichren Mt. (Pirin Mts.), based on a single female. Because the male specimen of *C. pirinensis* is now at disposal, the description of male is provided:

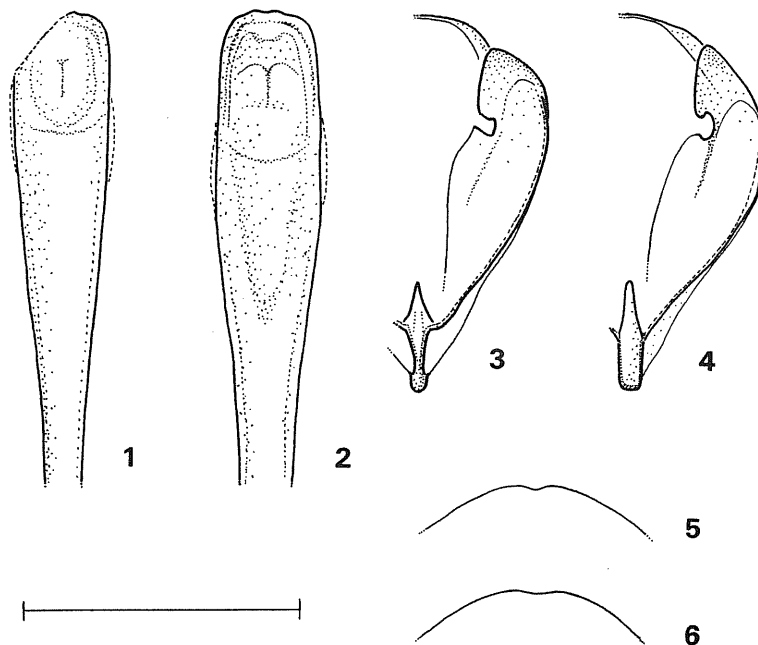
Male. Proportions of the male specimen: length of body 4.45 mm, head 0.90 mm, pronotum 1.15 mm, elytra 2.85 mm, antenna 1.93 mm, maximum width of head 0.95 mm, pronotum 1.60 mm, elytra 1.85 mm, width of pronotum posteriorly 1.27 mm.

Male specimen similar to the description of female, except for slightly smaller body length (4.58 mm in the female holotype), more slender pronotum (pronotum 1.39 times as wide as long in the male specimen, 1.43 times in the female holotype). The antennal : pronotal lengths ratio is 1.68, the same as in the female holotype.

Profemur with small tubercle, protibia slender, gradually extended to apex. Protarsi with extended segments, basal protarsal segment 0.92 times as wide as apex of protibia. Posterior margin of sternum VIII notched medially (Fig. 5). Genital segment (Fig. 3): spiculum gastrale slender, constricted in central part, anterior margin of genital plate undulated. Aedeagus slender, with small round dorsal depression (Fig. 1, aedeagus slightly damaged in the specimen studied), paramere very short.

Closely related to *C. purkynei* Obenberger, 1917. Both species are very similar to each other by the characteristic prolonged shape of body, reduced membraneous wings, slender, long and sim-

ple male protibia, notched male sternum VIII (Figs 5,6) and extremely short parameres.
C. pirinensis differs from *C. purkynei*, except for the characters given by Zerche (1992), also by the shape of aedeagus (Figs 1,2) and structure of genital segment (Figs 3,4).



Figs 1-6. 1,3,5 - *Catops pirinensis* Zerche; 2,4,6 - *C. purkynei* Obenberger. 1,2 - aedeagus dorsally; 3,4 - right part of genital segment ventrally; 5,6 - posterior margin of sternum VIII ventrally. Scale bar 1 mm.

Obr. 1-6. 1,3,5 - *Catops pirinensis* Zerche; 2,4,6 - *C. purkynei* Obenberger. 1,2 - aedeagus shora; 3,4 - pravá část genitálního segmentu zdola; 5,6 - zadní okraj osmého sternu zdola. Měřítko 1 mm.

Catops purkynei Obenberger, 1917

Material examined. Bulgaria: "Musalla [Rila Mts., Musala Mt.], Bulg., Coll. Purkyně; TYPUS; No. 20119", 1 ♂ holotype (NMP); "Rila pl., Musalla, [19]09, Rambousek [lgt.], B. alp.", 1 ♂ (MPCG).

Complementary description. Male. Posterior margin of sternum VIII notched medially (Fig. 6). Genital segment: spiculum gastrale wide and compact, anterior margin of genital plate straight (Fig. 4). Aedeagus wider, with prolonged oblong dorsal depression. Tip in the holotype specimen truncate, slightly undulated (Fig. 2); apically dentate in the specimen from MPCG (Jeannel 1936: 354, fig. 834).

Catops fuliginosus fuliginosus Erichson, 1837

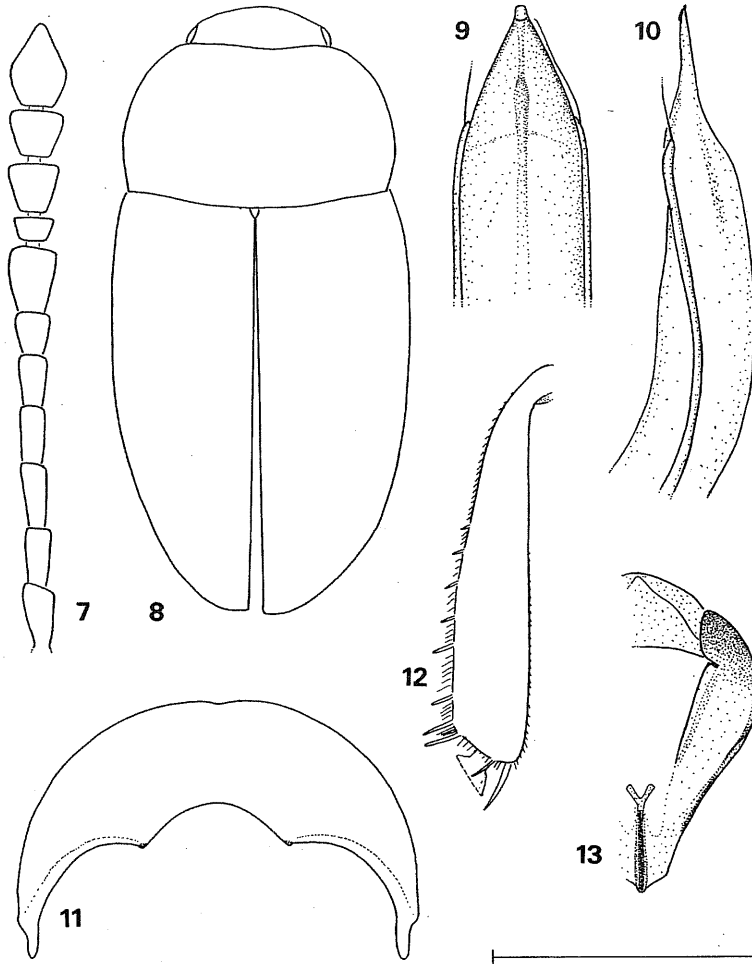
Material examined. Bulgaria: Pirin Mts., Banderica, 13.vi.1936, Hlisnikowski lgt., 1 ♂ (coll. Hlisnikovský in NMP).

Species listed from Balcanian Peninsula only from Dalmacia and Greece by Szymczakowski (1965). New for Bulgaria.

Catops nigricantoides Reitter, 1901

Material examined. Bulgaria: Pirin Mts., Mozgoviška gorta, 2500 m a.s.l., 22.viii.1978, J. Janák lgt., sifted from old grass on alpine meadow, No. 108, 1 ♂, 2 ♀♀ (CJR).

This rare species reported from Bulgaria only from one locality in the Rila Mts. (Zwick 1981).



Figs 7-13. *Catops hanusi* sp. n., holotype. 7 - left antenna dorsally; 8 - habitus dorsally; 9 - tip of aedeagus dorsally; 10 - aedeagus laterally; 11 - sternum VIII ventrally; 12 - right protibia dorsally; 13 - right part of genital segment ventrally. Scale bar 0.66 mm for Fig. 7, 0.5 mm for Fig. 8, 1 mm for Figs 9-13.

Obr. 7-13. *Catops hanusi* sp. n., holotypus. 7 - levé tykadlo shora; 8 - obrys těla shora; 9 - špička aedeagu shora; 10 - aedeagus ze strany; 11 - osmé sternum zdola; 12 - pravá protibie shora; 13 - pravá část genitálního segmentu zdola. Měřítko 0,66 mm pro obr. 7; 0,5 mm pro obr. 8; 1 mm pro obr. 9-13.

Catops hanusi sp. n.

Material examined. Holotype ♂: "Bulgaria, Orechovica [Orehovica, Pleven distr., 43.34°N 24.24°E], viii. 1923, Ing. Hanuš [lgt.]", deposited in NMP.

Description. Male. Body length 4.0 mm, wings fully developed. Body prolonged (Fig. 8), brown, with paler legs and segments of antennae (except for brown segments VII and IX-XI). Body densely covered with short recumbent yellow pubescence.

Head 1.4 times as wide as long, surface finely and densely punctated. The distance between punctures longer than diameter of punctures, surface with fine isodiametric microsculpture. Eye large, horizontal diameter of eye 1.3 times as short as vertical diameter, 2.8 times as wide as distance between their anterior margin and antennal insertion. Maxillary palpus with ultimate segment 1.7 times as short as penultimate segment.

Antenna (Fig. 7) 1.45 times as long as pronotal length, with indicated antennal club. The proportions of antennal segments I to XI: 25 x 13, 20 x 10, 24 x 10, 20 x 10, 18 x 11, 15 x 13, 22 x 18, 9 x 15, 17 x 19, 17 x 20, 30 x 20.

Pronotum 1.65 times as wide as long, 1.8 times as wide as head, widest at the basal third. Sides regularly rounded, hind angle slightly obtuse (Fig. 8). Hind margin of pronotum very slightly sinuous, not excavated laterally. Surface of pronotum regularly convex, punctation and microsculpture as on head.

Elytra slender, regularly convex, 1.4 times as long as wide, 2.5 times as long and 1.1 times as wide as pronotum, widest at anterior third. Elytra without traces of striae.

Profemur simple, without ventral protuberance. Protibia (Fig. 12) 5.1 times as long as maximum width, regularly extended to apex; laterally with 8-9 and lateroventrally with 5 distinct spines. Protibia 1.35 times as long as protarsus. Protarsus moderately extended, basal segment only 0.9 times as wide as maximum protibial width. Mesotibia regularly bent, 1.3 times as long as mesotarsus. Basal segment of mesotarsus extended. Metatibia straight, 1.3 times as long as metatarsus.

Abdominal sternites without medial impressions. Sternum VIII as on Fig. 11, finely notched posteriorly. Genital segment as on Fig. 13, genital plate with narrow medial incision; spiculum gastrale short, bifurcated posteriorly.

Aedeagus (Fig. 9-10) long, gradually narrowing to a slender tip with truncate apex, medially with longitudinal impression, which is extended at the base of apex. Each paramere with sole, very long terminal seta.

Female. Unknown.

Derivation. The new species is named after its collector, the late Ing Florian Hanuš from Praha.

Differential diagnosis. *Catops hanusi* sp. n. belongs to the *C. fuscus* species group, judging from the shape and coloration of antennal segments (Fig. 7), lack of protuberance on the male profemur, simple shaped male protibia with row of spines on outer margin (Fig. 12, contradictorally to Jeannel 1936: 330, found in some species of *Catops* from the *fuscus* species group).

The new species differs from the other known species of the *C. fuscus* group by posterior pronotal angle simply rounded (Fig. 8), pronotum not excavated lateroposteriorly (however, this character is sometimes weakly developed in some specimens of *Catops fuliginosus fuliginosus* Erichson and *C. fuscus fuscoides* Reitter, 1909 [Majer 1980; pers. obs.], and is nearly invisible in

Table 1. Species of Cholevinae (Coleoptera, Leiodidae) listed from Bulgaria (following abbreviations used: B - Beron, J - Jeannel, S - Szymczakowski, R - this paper; * before species name - first record for Bulgaria).

Tabulka 1. Druhy podčeledi Cholevinae (Coleoptera, Leiodidae), udávané z Bulharska (použity následující zkratky: B - Beron, J - Jeannel, S - Szymczakowski, R - tento článek; * před názvem druhu - první údaj pro Bulharsko).

species/druh	reference(s)/citace
<i>Ptomaphagus sericatus</i> (Chaudoir)	S 1965
* <i>Nemadus colonoides</i> (Kraatz)	R
<i>Eocatops pelopis</i> (Reitter)	J 1936, S 1965, R
* <i>Anemadus strigosus strigosus</i> (Kraatz)	R
* <i>Anemadus acicularis</i> (Kraatz)	R
<i>Nargus badius</i> (Sturm)	J 1936, S 1960, S 1965, B 1972, B 1994, R
<i>Nargus wilkini</i> (Spence)	S 1962, S 1965, R
<i>Nargus kraatzi</i> (Reitter)	J 1936, S 1965
<i>Nargus anisotomoides</i> (Spence)	J 1936, S 1965, R
<i>Choleva spadicea</i> (Sturm)	Guéorguiev & Beron 1962, S 1965, B 1994, R
<i>Choleva paskoviensis</i> Reitter	Guéorguiev & Beron 1962, S 1965, B 1972, B 1994, R
<i>Choleva agilis</i> (Illiger)	J 1936, Guéorguiev & Beron 1962, S 1965, B 1972, B 1994, R
<i>Choleva oblonga oblonga</i> Latreille	S 1962, S 1965, B 1972
* <i>Choleva nivalis</i> (Kraatz)	R
<i>Choleva reitteri</i> Petri	J 1936, S 1965
<i>Choleva cisteloides</i> (Frölich)	Nedělkov 1905 (?), S 1965
<i>Choleva glauca</i> Britten	S 1962, S 1965, R
<i>Choleva angustata</i> (Fabricius)	B 1972, B 1994, R
* <i>Choleva elongata</i> (Paykull)	R
* <i>Catopomorphus orientalis</i> (Aubé)	R
<i>Catopomorphus marani</i> (Roubal)	Roubal 1936, S 1965
<i>Attaephilus arenarius</i> (Hampe)	S 1965, R
<i>Attaephilus rambouseki</i> Jeannel	J 1936, S 1965
* <i>Attaephilus illyricus</i> Jeannel	R
* <i>Attaephilus molitori</i> Scheerpeltz	R
<i>Sciodreporides watsoni watsoni</i> (Spence)	Guéorguiev & Beron 1962, S 1965, B 1994
<i>Catops coracinus coracinus</i> Kellner	S 1962, S 1965, Beron 1972, B 1994, R
<i>Catops nitidicollis</i> Kraatz	S 1960, S 1965, R
<i>Catops grandicollis</i> Erichson	S 1962, S 1965, R
<i>Catops pirinensis</i> Zerche	Zerche 1992, R
<i>Catops purkynei</i> Obenberger	Obenberger 1917, J 1936, S 1965, Zerche 1992, R
<i>Catops nigrita</i> Erichson	S 1960, S 1965
* <i>Catops fuliginosus fuliginosus</i> Erichson	R
<i>Catops nigricantoides</i> Reitter	Zwick 1981, R
* <i>Catops hanusi</i> sp. n.	R
<i>Catops picipes</i> (Fabricius)	S 1962, S 1965, B 1972, B 1994

one undescribed species of this group from northwestern China [Růžička, unpublished]). *C. hanusi* sp. n. clearly differs from the other species of this group by the shape of aedeagus, unusually prolonged terminal seta on paramere and by bifurcated posterior part of spiculum gastrale (Fig. 13, simple in other species).

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REFERENCES

- BERON P. 1972: Essai sur la faune cavernicole de Bulgarie 3. Résultats des recherches biospéléologiques de 1966 à 1970. *Int. J. Speleol.*, 4: 285-349.
- BERON P. 1994: Résultats des recherches biospéléologiques en Bulgarie de 1971 à 1994 et liste des animaux cavernicoles Bulgares. *Tranteeva*, 1: 1-137
- GIACHINO P. M. & VAILATI D. 1993: *Revisione degli Anemadinae Hatch, 1928 (Coleoptera Cholevidae)*. Monografie di „Natura Bresciana“ 18. Natura Bresciana, Brescia, 314 pp.
- GUÉORGUIEV V. & BERON P. 1962: Essai sur la faune cavernicole de Bulgarie. *Ann. Spéléol.*, 17: 285-441.
- JEANNEL R. 1936: Monographie des Catopidae (Insectes Coléoptères). *Mém. Mus. Nat. Hist. Nat., Nouv. Série*, 1: 1-433.
- MAJER K. 1980: Bericht über die Familie Catopidae von der Olmützer Umgebung. *Zpr. Čs. Společ. Entomol. CSAV*, 16: 109-116 (In Czech, German abstr.).
- NEDÉLKOV N. 1905: Beitrag zur entomologischen Fauna Bulgariens. *Period. Spis. Balgar. Kníž. Druž. Sofia*, 66: 404-439 (sec. rec., in Szymczakowski 1965).
- OBENBERGER J. 1917: 2. Beitrag zur Kenntnis der palaearktischen Käferfauna. *Archiv für Naturgeschichte*, A, 82 (1916): 9-45.
- ROUBAL J. 1936: Catopsimorphus s.str. Mařani sp.n. *Acta Soc. Entomol. Českoslov.*, 33: 72-74.
- SZYMCZAKOWSKI W. 1960: Notes sur quelques espèces de la famille Catopidae (Coleoptera) du Musée National d'Histoire Naturelle à Budapest. *Ann. Hist.-Nat. Mus. Nat. Hung., Pars Zool.*, 52: 235-238.
- SZYMCZAKOWSKI W. 1962: Faunistisch-zoogeographische Bemerkungen über Catopidae (Coleoptera) der Balkanländer und Südwestasiens (nebst Beschreibung einer neuen Art). *Polskie Pismo Entomol.*, 32: 127-149.
- SZYMCZAKOWSKI W. 1965: Ergebnisse der Albanien-Expedition 1961 des Deutschen Entomologischen Institutes, 38. Beitrag, Coleoptera: Catopidae (exclusive Bathysciinae). *Beitr. Entomol.*, 15: 689-699.
- SZYMCZAKOWSKI W. 1970: Contribution à la connaissance des Catopidae (Coleoptera) paléarctiques. *Acta Zool. Crac.*, 15: 259-281.
- ZERCHE L. 1992: Catops pirinensis sp. n. aus Bulgarien. *Reichenbachia*, 29: 41-43.
- ZWICK P. 1981: Catops nigricantoides Reitter und Catops andalusicus Heyden, zwei verkannte europäische Arten (Coleoptera, Cholevidae). *Entomol. Bl.*, 77: 32-42.

SOUHRN

V práci je popsán *Catops hanusi* sp. n. ze severu Bulharska, druh patří do skupiny *C. fuscus*. Od příbuzných druhů z této skupiny se liší nevykrojenými zadními rohy štítu (obr. 8), a dále tvarem aedeagu (obr. 9,10), neobvykle protaženou koncovou setou paramery, tvarem genitálního segmentu (obr. 13) se vzadu rozdvojeným tzv. spiculum gastrale. Doplněn je popis samce druhu *Catops pirinensis* Zerche, 1992, druhu popsaného z pohoří Pirin podle jediné samice. Tento druh je srovnán s příbuzným druhem *C. purkynei* Obenberger, 1917, známým pouze z masívu Rily.

Dále je v práci uveden přehled nálezů celkem 23 vzácnějších či faunisticky zajímavějších druhů, z nichž devět druhů je nových pro území Bulharska: *Nemadus colonoides* (Kraatz), *Anemadus strigosus strigosus* (Kraatz), *A. acicularis* (Kraatz), *Choleva nivalis* (Kraatz), *Ch. elongata* (Paykull), *Catopomorphus orientalis* (Aubé), *Attaephilus illyricus* Jeannel, *A. molitori* Scheerpeltz a *Catops fuliginosus fuliginosus* Erichson. Celkově je tedy z Bulharska známo 36 druhů brouků z podčeledi Cholevinae (nepočítáme-li zástupce tribu Leptodirini), viz Tab. 1.