

New subspecies of *Dorcadion pusillum* Küster, 1847 (Coleoptera: Cerambycidae) from South Russia

Новый подвид *Dorcadion pusillum* Küster, 1847 (Coleoptera: Cerambycidae) из Южной России

D.G. Kasatkin
Д.Г. Касаткин

Rostov State University, Bolshaia Sadovaia Str. 105, Rostov-on-Don 344006 Russia.

E-mail: kassatkind@mail.ru

Ростовский государственный университет, Большая Садовая ул. 105, Ростов-на-Дону 344006 Россия.

KEY WORDS: new subspecies, Coleoptera, Cerambycidae, *Dorcadion*, Russia, Rostov Area.

КЛЮЧЕВЫЕ СЛОВА: новый подвид, Coleoptera, Cerambycidae, *Dorcadion*, Россия, Ростовская область.

ABSTRACT: *Dorcadion pusillum tanaiticum* ssp.n. is described from south-west part of Rostov Area. The distinguishing characters are discussed.

РЕЗЮМЕ: *Dorcadion pusillum tanaiticum* ssp.n. из юго-западной части Ростовской области. Приведены его отличия от номинативного подвида.

Dorcadion pusillum Küster, 1847: 90 (Figs. 2–4, 7, 9) was described from Podolia (Vinitza and Khmelnytsky areas of Ukraine) without more precise indication of locality. It is distributed in Roumania, Moldova, Ukraine (Vinitza, Khmelnytsky, Dnepropetrovsk, Odessa, Nikolaev, Kherson, Kirovograd and Poltava areas, Crimea) and south-west Russia (Rostov Area).

Type specimens are not known to me. The identification of the taxon was based on the original description, the description by N.N. Plavilstshikov [1958], a series from Podolia (type locality) and specimens identified by N.N. Plavilstshikov personally (collection of the Zoological Museum of Moscow State University — ZMMU).

The specimens from Rostov Area of Russia differ considerably from the specimens of all other localities of the species area and so represent a new subspecies.

Dorcadion pusillum tanaiticum ssp.n.
Figs. 1, 5, 6, 8, 11.

DESCRIPTION. Head densely covered with pale pubescence, with two dark areas divided by pale stripe on front and occiput, with a glabrous longitudinal middle line; antennae from dark-brown to reddish; in males antennae reach posterior elytral forth, in females — elytral middle; 1st antennomere a little longer than 3^d, 4th a little shorter than 3^d and longer than 5th.

Prothorax transverse with small lateral tubercles and sharp spines; its basal width about 3 times less than elytral length; covered with dark pubescence; pronotum with pale medial stripe, lateral tubercles with whitish pubescence; dorsal prothorax puncturation fine and dense with several big punctures, lateral puncturation bigger and rougher.

Male elytra about 3–3.5 times, females — 3.2–3.5 times longer than prothorax, with dense pubescence; elytral pubescence from nearly black to pale-brown; suture stripe and lateral stripe bright-white; humeral and external dorsal pale stripes hardly visible, often indistinct; anteriorly and posteriorly elytra sometimes with white strokes; male elytra always without black spots; humeral carinae are distinct only in anterior elytral forth and here roughly and densely punctated, dorsal carinae poorly developed. Legs from dark-red to brown.

Females are always autochromal, with rather bright and very wide lateral, humeral and external dorsal white elytral stripes, with or more often without small dark spots.

Body length in males: 9.5–12 mm, width: 4–4.5 mm; body length in females: 12–13 mm, width: 5 mm.

DISTRIBUTION (Fig. 12). The area of *D. p. tanaiticum* seems to be strongly distant from the area of *D. p. pusillum*. Only two populations are known in the closest environs of Rostov-on-Don (near Nedvigovka and Olimpiadovka).

REMARKS. *D. pusillum* var. *berladense* Pic, 1903 was described from Roumania (“Vol du Berlad”) on the base of darker legs and darker uniform elytral pubescence (“Pattes á coloration un peu obscurcie, élytres ornés d’une pubescence plus uniforme ou d’une pubescence foncée plus étendue”). This form was regarded by S. Breunig [1963: 288] as *D. pusillum* m. *berladense*, which differs by total absence of dorsal and humeral elytral stripes. In reality most probably the species is represented in Roumania by a well definite subspecies *D. pusillum berladense*. In the list of European Cerambycidae by J. Althoff and M. Danilevsky this name was not mentioned.

The new subspecies differs from the nominative one by darker colour pubescence, by the absence of dark elytral spots in males, by not so rough puncturation of humeral elytral carinae; by the structure of pennies apex (Figs. 10–11); and a little narrower near base.

I know only 1 male and 3 females from the type area of the species (Podolia). I do not see any special characters in this series, as well as in any other populations of *D. pusillum* from Ukraine, Moldavia or central Russia, so now the delimitation of more subspecies looks impossible.

Material. *Dorcadion pusillum tanaiticum* ssp.n.: Holotype, ♂: Rostov area, Miasnikovsky distr., near settlement Nedvigovka,

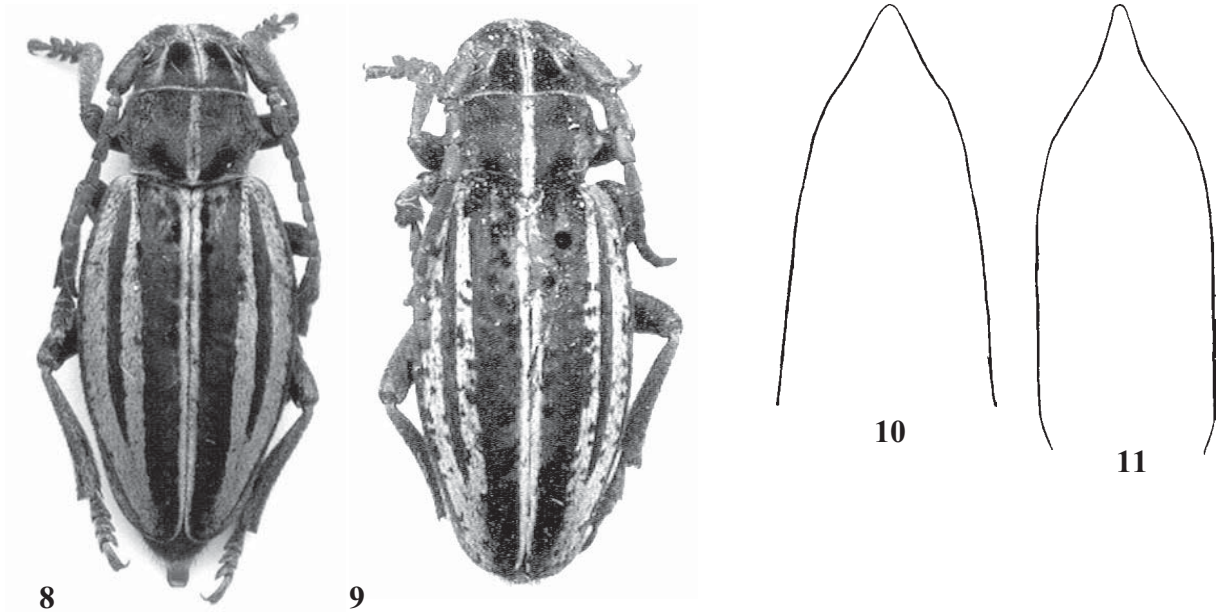


Abb. 1–7. *Dorcadion pusillum pusillum* Kust. und *D. pusillum tanaiticum* ssp. n., habitus: 1, 5, 6 — *Dorcadion pusillum tanaiticum*, ssp.n., ♂ paratypes (Rostov Gebiet, umg. s. Nedvigovka); 2–4, 7 — *Dorcadion pusillum pusillum* Kust. ♂: 2 — Ukraine, Cherson; 3 — Ukraine, Apostolovo; 4 — Ukraine, Akkerman; 7 — Ukraine, Dnepropetrovsk.

Рис. 1–7. *Dorcadion pusillum pusillum* Kust. и *D. pusillum tanaiticum* ssp. n., внешний вид: 1, 5, 6 — *Dorcadion pusillum tanaiticum*, ssp.n., ♂ паратипы (Ростовская обл., окр. п. Недвиговка); 2–4, 7 — *Dorcadion pusillum pusillum* Kust. ♂: 2 — Украина, Херсон; 3 — Украина, Апостолово; 4 — Украина, Аккерман; 7 — Украина, Днепропетровск.

04.1999, D.G. Kasatkin leg. (Zoological Institute, St.-Petersburg, ZIN). Paratypes: 24 ♂♂, 7 ♀♀ with same data., P.P. Ivliev, D.G. Kasatkin, Yu.G. Arzanov leg.; 4 ♂♂, same locality, 05.2000, D.G. Kasatkin leg., 21 ♂♂, 10 ♀♀, same locality, 05.2001, D.G. Kasatkin leg., 2 ♂♂, same locality, 31.03.1974, A.I. Fomichev leg.

(collection of the author); 12 ♂♂, 10 ♀♀, Nedvigovka, 04.2002, D.G. Kasatkin leg.; 1 ♀, Nedvigovka, 10.05.2002, S.V. Murzin leg.; 1 ♂ (identified by N.N. Plavilstshikov as *D. pusillum* ab. *berladense*), Rostov-on-Don, Olimpiadovka, 8(21).IV.1921, K.P. Samko leg. (ZMMU).



Figs. 8–9. *Dorcadion pusillum* ssp., females: 8 — paratype of *D. p. tanaiticum* — *D. p. pusillum* Küst. (Ukraine, Kirovograd).

Рис. 8–9. *Dorcadion pusillum* ssp., самки: 8 — паратип *D. p. tanaiticum* — *D. p. pusillum* Küst. (Украина, Кировоград).

Fig. 10–11. Penis of *Dorcadion pusillum* Küst. (10) and *D. p. tanaiticum* ssp.n. (11).

Рис. 10–11. Пенис *Dorcadion pusillum* Küst. (10) и *D. p. tanaiticum* ssp.n. (11).

Dorcadion pusillum pusillum: 1 ♂, South Ukraine, Askania-Nova, 18.IV.27, Medvedev leg. (ZMMU); 1 ♂ and 2 ♀♀, Ukraine, Podolia (ZMMU); 3 ♂♂ and 1 ♀, Ukraine, Akkerman (now Belgorod Dnestrovsky) (ZMMU); 3 ♂♂, Russia mer., Aleshki, 21.V.33, Romanova leg. (ZMMU); 1 ♂, Poltava, 04.1912, Ogloblin leg. (ZMMU); 2 ♂♂, Ukraine, Odessa, 9.5.39 and 23.4.39; 1 ♂, Ukraine, Dnepropetrovsk env., Pavlograd Distr., Kocherezhki, 6.91, Barsov leg.; 5 ♂♂ and 3 ♀♀, Dnepropetrovsk env., Apostolovo, 1.5.94, Tretiakov leg.; 2 ♂♂ and 1 ♀, Dnepropetrovsk, airport, 4.5.74, 9.5.74 and 4.5.84, Barsov leg.; 4 ♂♂ and 4 ♀♀, Ukraine, Kherson, 25.4–9.5.1996, R. Mishustin leg.; 1 ♂ and 2 ♀♀, Ukraine, Nikolaev Reg, Ochakov Distr., Parutino, 18.5.78, M. Nesterov leg.; 2 ♀♀, Ukraine, Askania-Nova, 18.5.1893, Dobrzhansky leg.; 1 ♀, Ukraine, Kirovograd, 4.5.1940; 1 ♀, Moldova, state farm "Pobeda", 8.6.1960 (all in the collection of M.L. Danilevsky, Moscow); 3 ♂♂ and 1 ♀, Ukraine, near Ochakov, 23.04.1906 (ZIN); 2 ♂♂ and 1 ♀, Ukraine, near Odessa, 31.03.1921 (ZIN); 1 ♀, Ukraine, Kerch, 06.1906, leg. Kirichenko (ZIN); 1 ♂, Ukraine, Poltava Area (ZIN); 1 ♂, Ukraine, Dnepropetrovsk env., Apostolovo Distr. (collection of the author).

ETYMOLOGY. The name of the new taxon is derived from the ancient name Tanais of Don River.

Acknowledgements. I wish to express my hearty gratitude to Dr. M.L. Danilevsky (Institute for Problems of Ecology and Evolution, Russian Academy of Sciences, Moscow)

for loan of material, constant and very useful consulting help and reviewing of my manuscript, as well as to Drs. N.B. Nikitsky (Zoological Museum of Moscow State University) and A.L. Lobanov (Zoological Institute, Russian Academy of Sciences, St. Petersburg) for providing me with the opportunity to study the respective museum collections. I am especially obliged to my colleagues Dr. Yu.G. Arzanov and P.P. Ivliev for their participation in my collecting efforts and Dr. K.V. Makarov (Moscow State Pedagogical University) for the help in the improving of the article design.

References

- Althoff J., Danilevsky M.L. 1997. A check-list of Longicorn beetles (Coleoptera, Cerambycoidea) of Europe. Ljubljana: Slovensko Entomolosko Drustvo Stefana Michielija. 64 pp.
- Breuning S. 1962. Revision der Dorcadionini // Entomol. Abh. Bd.27. 650 S.
- Küster H.C. 1847. Die Käfer Europa's. Nürnberg: Bauer u. Raspe. H.8. 100 S.
- Pic M. 1903. Notes diverses, diagnoses, synonymies // Matériaux pour servir a l'étude des Longicornes, 4^{me} cahier, 2^{me} partie. P. 4–9.
- Plavilstshikov N.N. 1958. [Timber Beetles. Pt.3. Subfamily Laminae, pt. 1] // Fauna SSSR. Coleoptera. Vol.23. No.1. Moscow-Leningrad: AN SSSR Publ. House. 592 pp. [in Russian]



Map. The area of *Dorcadion pusillum*. 1–9, C, V — *Dorcadion pusillum pusillum* Kust. 1 — Odessa; 2 — Kirovograd; 3 — Kocherezhki; 4 — Dnepropetrovsk; 5 — Akkerman (Belgorod-Dnestrovsky); 6 — Parutino; 7 — Apostolovo; 8 — Kherson; 9 — Poltava; C — Crimea; V — Volyn Area. ■ — *Dorcadion pusillum berladense* Pic (type locality). ● — *Dorcadion pusillum tanaiticum* ssp.n. (Nedvigovka, Rostov-on-Don).

Карта. Распространение *Dorcadion pusillum*. 1–9, C, V — *Dorcadion pusillum pusillum* Kust. 1 — Одесса; 2 — Кировоград; 3 — Кочережки; 4 — Днепропетровск; 5 — Аккерман (Белгород-Днестровский); 6 — Парутино; 7 — Апостолово; 8 — Херсон; 9 — Полтава; C — Крым; V — Волынская обл. ■ — *Dorcadion pusillum berladense* Pic (типовое местонахождение). ● — *Dorcadion pusillum tanaiticum* ssp.n. (Недвиговка, Ростов-на-Дону).