

**DORCADION MUCHEI BREUNING, 1962 REST. NOV. AND
DORCADION SUBATRITARSE BREUNING, 1966 REST. NOV.
(CERAMBYCIDAE)**

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ABSTRACT: With the present work, *Dorcadion muchei* Breuning, 1962 rest. nov. and *Dorcadion subatritarse* Breuning, 1966 rest. nov. are discussed and regarded as separate species again.

KEY WORDS: *Dorcadion muchei*, *Dorcadion subatritarse*, rest. nov., Cerambycidae, Turkey.

***Dorcadion muchei* Breuning, 1962 rest. nov.
and
Dorcadion subatritarse Breuning, 1966 rest. nov.**

We realized expeditions to Çorum province in Central Black Sea Region of Turkey in 2013. As a result of this, many Cerambycidae specimens were collected from the province. Especially, Boğazkale (Çorum: Alcahöyük) stood out as a very interesting area for *Dorcadion* species. Many *Dorcadion* specimens of different species were obtained from such a small area. One of them, we think, is a new species that will be published. A total of four *Dorcadion* species (including sp. n.) were identified from the small area. These are: *Dorcadion bangi heinzorum*, *D. iconiense*, *D. piochardi*, *D. scabricolle paphlagonicum* and a new species.

As known, firstly described species is *Dorcadion iconiense* in 1900 for this related group. Secondly, *Dorcadion semisetosum* was described by Jakovlev (1901) from the same locality with *Dorcadion iconiense*. According to Breuning (1962a), it accepted as a synonym of *Dorcadion iconiense*. Then, *Dorcadion iconiense* var. *fulvovestitum* was described by Pic (1903) and *Dorcadion iconiense* m. *posticeapertum* was described by Breuning (1946) from the same locality too. Also Breuning (1962a) placed them under the species *Dorcadion iconiense*. However, Breuning (1962a) gave *Dorcadion albicolle* that was described by Breuning (1943) also from Konya province, as a separate species wrongly. Since the diagnostic characters of *Dorcadion albicolle* are in the variation wideness of *Dorcadion iconiense* absolutely.

Besides, *Dorcadion muchei* was described by Breuning (1962b) with the morpha *Dorcadion muchei* m. *plurivittipenne* from Çankırı province. Then, Breuning (1966) described *Dorcadion parescherichi* from Yazılıkaya (Çorum province: Boğazkale). Braun (1975) accepted it as a synonym of *Dorcadion muchei*. Also *Dorcadion subatritarse* was described by Breuning (1966) from Çorum province (Boğazkale). Braun (1978) accepted it as a synonym of *Dorcadion iconiense*. Since he regarded *Dorcadion muchei* as a morpha of *Dorcadion iconiense*. And the approach was published Braun (1979) that accepted *Dorcadion muchei* as a synonym of *Dorcadion iconiense*.

Probably as a result of Braun's works, Löbl & Smetana (2010) gave all

described taxa as synonyms of one species *Dorcadion iconiense*.

The collected specimens (27 males and 14 females) that regarded as *D. iconiense* revealed some important results for Turkish fauna as seen below. Among them, mainly 4 different forms can be determined: 1) Black velvety spots on elytral light bands present; so the especially dorsal bands interrupted, not complete; ground pubescence of elytra present (1 male and 7 females), 2) Black velvety spots on elytral light bands absent; so the bands complete; ground pubescence of elytra present (10 males and 2 females), 3) Black velvety spots on elytral light bands absent; so the bands complete, but dorsal band free, not connected with humeral band posteriorly; ground pubescence of elytra present (1 female), 4) Ground pubescence of elytra more or less reduced, so elytra more or less glanced; elytral light bands entirely absent (at most dorsal band into a trace only in apical part, trace of humeral band absent or present) or if present, more or less reduced and into traces (16 males and 4 females).

In real, all forms had been described by authors as separate taxa.

The first form was described by K. Daniel (1900) as *Dorcadion iconiense* from Konya province in Central Anatolian Region of Turkey.

The second form was described by Breuning (1962a) as *Dorcadion muchei* from Çankırı province in Western Black Sea Region in North Anatolia.

The third form was described by Breuning (1966) as *Dorcadion parescherichi* from Çorum province in Central Black Sea Region in North Anatolia.

And also the fourth form was described by Breuning (1966) as *Dorcadion subatritarse* from Çorum province in Central Black Sea Region in North Anatolia.

All forms were accepted by Braun (1978) as variations of *Dorcadion iconiense* (Fig. 1).

Consequently, *Dorcadion iconiense* from Konya province and *Dorcadion muchei* from Çankırı province are closely related species clearly. Both have as the same as variations. For example, *Dorcadion iconiense* m. *posticeapertum* for *Dorcadion iconiense* and *Dorcadion parescherichi* for *Dorcadion muchei* are the same type variations for their species. In both described taxa, dorsal band is free ending, not connected with humeral band posteriorly. Also some undescribed variations for *Dorcadion muchei* are known as *Dorcadion albicolle* for *Dorcadion iconiense*.

As a result of the present work, we decided *Dorcadion iconiense* and *Dorcadion muchei* that have the same variations, are separate species. And also *Dorcadion subatritarse* should be regarded as a separate species. Moreover, according to Braun's works, *Dorcadion subatritarse* never collected from Konya province that is the type locality of *Dorcadion iconiense* and neighbour province Aksaray.

Finally, we proposed a new arrangement for this group as follows:

***Dorcadion iconiense* K. Daniel, 1900: 140** (Syntypes ♂♂, ex collection K.

Daniel, Deutsches Entomologisches Institut, Eberswalde) [type locality "Asia Minor" (Turkey)] A: TR

semisetosum Jakovlev, 1901: 85 [Turkey: Konya]

fulvovestitum Pic, 1903: 5 (*Dorcadion iconiense* var.) [Turkey]

albicolle Breuning, 1943: 89 [Turkey: Konya]

posticeapertum Breuning, 1946: 109 (*Dorcadion iconiense* m.) [Turkey: Konya]

Material examined: Çorum prov.: Boğazkale, Alacahöyük National Park, N 40° 01' E 34° 37', 1234 m, 30.III.2013, 1 male and 6 females; Çorum-Sungurlu road, 25 km to Sungurlu, 660 m, 30.III.2013, 1 female.

Known distribution of *Dorcadion iconiense*: Turkey (Asia minor) (K.

Daniel, 1900); Turkey: Konya as the type locality of *D. semisetosum* (Jakovlev, 1901; Lazarev, 2011); Konya prov. (Breuning, 1943, 1962a); Aksaray prov., Kırşehir prov.: Mucur, Kayseri prov.: Çallıgedik pass, Yozgat prov.: Çiçekdağı (Braun, 1978); Yozgat prov.: Çiçekdağı pass, Aksaray prov., Kırşehir prov.: Mucur, Kayseri prov.: Çallıgedik pass, Konya prov. (Braun, 1979); Anatolia (Löbl & Smetana, 2010) (Fig. 2).

***Dorcadion muchei* Breuning, 1962: 38** (Holotype ♂, collection H. Mucur)

[type locality “Çankırı” (Turkey)] A: TR

plurivittipenne Breuning, 1962: 39 (*Dorcadion muchei* m.) [Turkey: Çankırı]

paraescherichi Breuning, 1966: 146 [Turkey: Çorum: Boğazkale]

Material examined: Çorum prov.: Boğazkale, Alacahöyük National Park, N 40° 01' E 34° 37', 1234 m, 30.III.2013, 9 males and 1 female, 27.IV.2013, 1 male and 1 female; Çorum-Sungurlu road, Kemallı return 1st km, 30.III.2013, 774 m, 1 female; Çorum-Laçın road, exit of Sarmaşa village, 31.III.2013, N 40° 39' E 34° 55', 987 m, 1 male; Çorum-Çankırı road, Bayat-Hacıbayram village, 31.III.2013, N 40° 37' E 34° 23', 688 m, 1 male; Exit of Laçın, Osmancık road, 28.IV.2013, N 40° 47' E 34° 52', 677 m, 1 male.

Known distribution of *Dorcadion muchei*: Çankırı as the type locality (Breuning, 1962); Kastamonu prov.: Ilgaz Mt. as *D. iconiense* m. *muchei* (Demelt, 1967); Çankırı prov.: Kızılırmak, Çorum prov.: Yazılıkaya as *D. iconiense* m. *muchei* (Braun, 1978); Yozgat prov.: Çandır, Çankırı prov., Kayseri prov.: Çallıgedik (Braun, 1979); Çorum prov.: Yazılıkaya as *D. paraescherichi* (Breuning, 1966; Braun, 1979); Yozgat prov. (Holzschuh, 1980) (Fig. 3).

***Dorcadion subatritarse* Breuning, 1966: 146** (Holotype ♂, collection Antonella Perissinotto) [type locality “Boğazkale” (Turkey: Çorum)] A: TR

Material examined: Çorum prov.: Boğazkale, Alacahöyük National Park, N 40° 01' E 34° 37', 1234 m, 30.III.2013, 10 males and 1 female, 27.IV.2013, 6 males and 3 females.

Known distribution of *Dorcadion subatritarse*: Çorum prov.: Boğazkale (Breuning, 1966; Perissinotto & Lucini, 1966); Çorum prov.: Boğazkale, Kırşehir prov.: Mucur (Braun, 1978) (Fig. 4).

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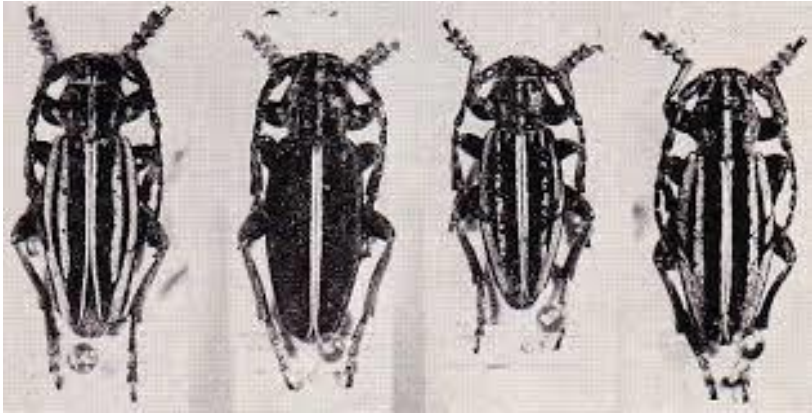


Figure 1. Variations of *Dorcadion iconiense* according to Braun (1978, 1979) [left to right: *D. parescherichi*, *D. subatritarse*, *D. iconiense*, *D. muchei*] (From Braun, 1978).

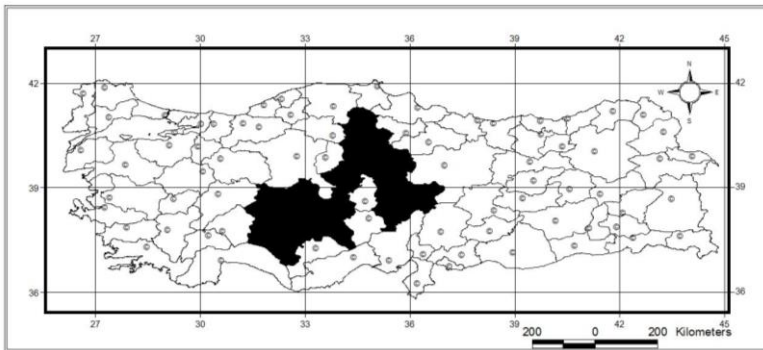


Figure 2. The distribution patterns of *Dorcadion iconiense*.

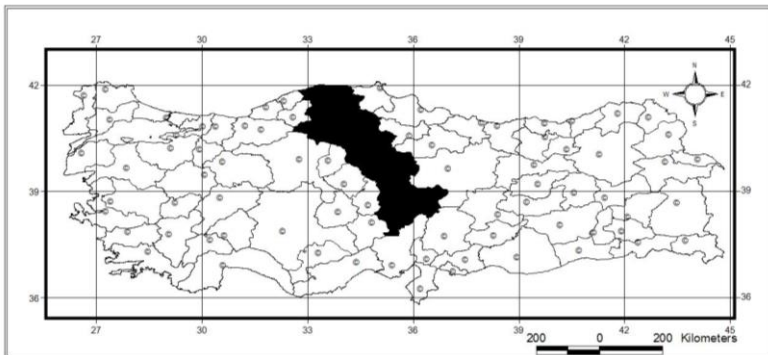


Figure 3. The distribution patterns of *Dorcadion muchei*.

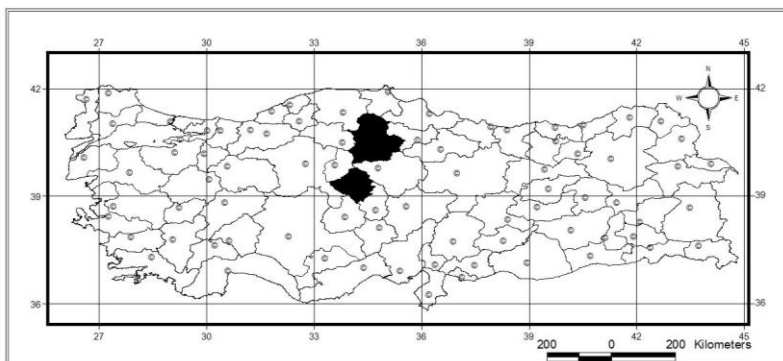


Figure 4. The distribution patterns of *Dorcadion subatritarse*.