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New combination and new synonymy in the subtribe Cylindrinotina (Coleoptera, Tenebrionidae, Helopini) based on the study of types from European museums

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Abstract

On the study of types of Helopini from collections of some European museums, the author establishes several nomenclatural acts. New combination: *Odocnemis* (*Heloponotus*) *arboreus* (Fischer von Waldheim, 1823), **comb. n.** from *Helops* Fabricius, 1775. New synonymy: *Odocnemis* (*Heloponotus*) *arboreus* (Fischer von Waldheim, 1823) = *Stenomax douei* Allard, 1876, **syn. n.** *Nalassus dryadophilus* (Mulsant, 1854) = *Cylindrinotus curticollis* Reitter, 1922, **syn. n.** = *Helops* (*Nalassus*) *phaeacus* J. Sahlberg, 1903, **syn. n.** Lectotypes of *Helops arboreus* Fischer von Waldheim, 1823 and *Cylindrinotus curticollis* Reitter, 1922 are designated.

Introduction

Types from various European museums were studied during revision of some groups of Palaearctic Tenebrionidae of the tribe Helopini. As a result some new synonymes in the genera *Odocnemis* Allard, 1876 (subgenus *Heloponotus* Reitter, 1922) and *Nalassus* (nominative subgenus) are established.

Material and methods

This study is based on material collected by the authors and on material from the collections of the following institutions:

MZH	Zoological Museum, University of Helsinki, Finland
NMBA	Naturhistorisches Museum Basel, Switzerland
ZIN	Zoological Institute, Saint-Petersburg, Russia
ZMB	Museum für Naturkunde, Berlin, Germany

Taxonomy

Odocnemis (*Heloponotus*) *arboreus* (Fischer von Waldheim, 1823), comb. n.

Figures 1–2, 6

Helops arboreus Fischer von Waldheim, 1823: 200.
Stenomax douei Allard, 1876: 39, **syn. n.**
Helops excavatus Seidlitz, 1896: 752

Helops arboreus was described by Fischer von Waldheim (1823) from "Russia meridionale". Fischer named Steven as author of description, but this was made by Fischer von Waldheim and complies with his style. During 132 years this species was forgotten and nobody cited it. Germar (1824) described *Helops arboreus* which now is a junior homonym and synonym of *Probaticus subrugosus* (Duftschmidt, 1812) (Nabozhenko 2008). Germar's species has often been cited in various taxonomic revisions and catalogues of the 19th century.

Nabozhenko & Löbl (2008) cited *Helops arboreus* Fischer von Waldheim, 1823 as "species incertae sedis, genus *Helops*". Dr. Bernd Jaeger (Berlin) made qualitative photos of the syntype of *Helops arboreus* which leave no doubt in its identification. The species belons

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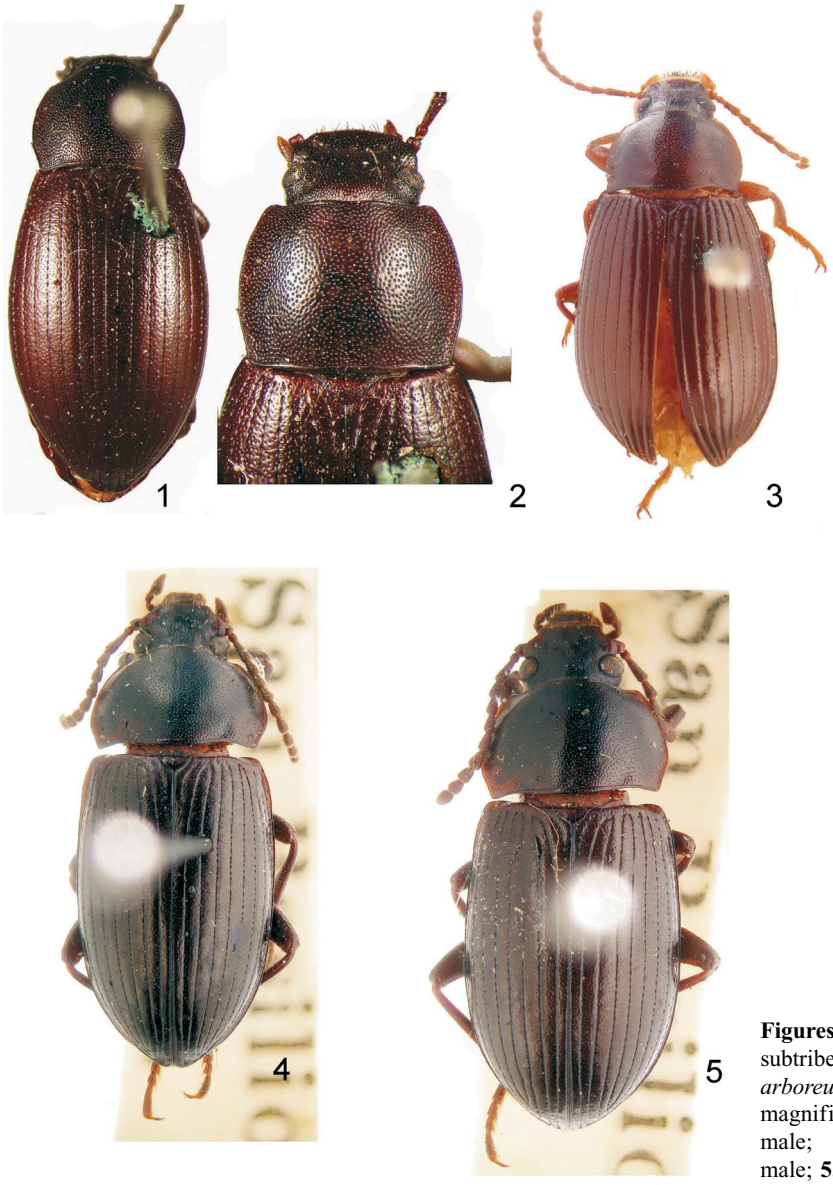


Figures 1–5. Dorsal view of type species of the subtribe Cylindrinotina. **1.** Lectotype of *Odocnemis arboreus*, female; **2.** The same, pronotum and head magnified; **3.** Holotype of *Helops phaeacus*, female; **4.** Lectotype of *Cylindrinotus curticollis*, male; **5.** Paralectotype of *C. curticollis*, male.

to the subgenus *Heloponotus* of the genus *Odocnemis* and so far was known from Crimea under *Odocnemis douei* (Allard, 1876). Thus a new combination and a new synonymy is established: *Odocnemis* (*Heloponotus*) *arboreus* (Fischer von Waldheim, 1823), **comb. n.** = *Stenomax douei* Allard, 1876, **syn. n.**

Type material examined. Lectotype (female), designated here, of *Helops arboreus* Fischer von Waldheim, 1823 with following labels: "*Helops arboreus* Crimm Steven" (hand-written), "47102" (printed). Lectotype is deposited in NMB.

Redescription of imago, description and redescription of larvae, figures, localities, habitats of this species are in Byzova & Gilyarov (1956), Nabozhenko (2001), Cherney (2005), Cherney & Fedorenko (2006).

Nalassus (s. str.) *dryadophilus* (Mulsant, 1854)

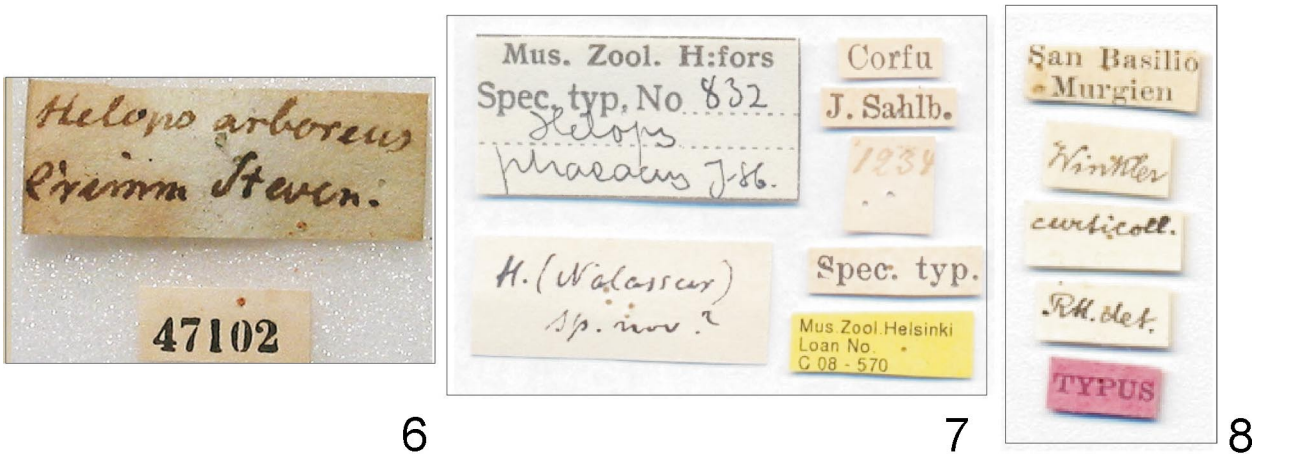
Figures 3–5, 7–8

Helops (*Nalassus*) *dryadophilus* Mulsant, 1854: 337
Helops (*Nalassus*) *phaeacus* J. Sahlberg, 1903: 33, **syn. n.**
Cylindronotus (*Nalassus*) *curticollis* Reitter, 1922: 149, **syn. n.**

This widespread species was described by Mulsant (1854) from France as *Helops* (*Nalassus*). Studying types of species described by Sahlberg (1903) and Reitter (1922) allowed establishing new synonymy.

Helops phaeacus was described by Sahlberg (1903) from Corfu. Reitter (1922) cited this species in a footnote and noted that it is very similar to *dryadophilus*. Gebien (1943) cited *H. phaeacus* under *Cylindrinotus* (*Nalassus*) *phaeacus* from "Corcyr.". Nabozhenko & Löbl (2008) cited *Nalassus phaeacus* ("*phaecus*", wrong spelling) from Greece. Holotype's examination proves that this species is identical to *N. dryadophilus*. Thus a new synonymy is established: *Nalassus dryadophilus* (Mulsant 1854) = *Helops* (*Nalassus*) *phaeacus* J. Sahlberg 1903, **syn. n.**

Cylindrinotus curticollis was described by Reitter (1922) in the subgenus *Nalassus* sensu Reitter (1922), type locality: San Basilio (Taranto prov., Puglia reg., Italy). Reitter (1922) recorded this species also for Bosnia, and included *C. curticollis* in his key within the species group with simple pubescense of middle anten-



Figures 6–8. Labels of types. **6.** *Odocnemis arboreus*; **7.** *Helops phaeacus*; **8.** *Cylindrinotus curticollis*.

nomeres (*N. dryadophilus* has long pubescense). However, this character varies in different areas of the distribution of *N. dryadophilus* and can be used for taxonomic diagnostics only carefully. Gebien (1943) also cited *Cylindrinotus* (*Nalassus*) *curticollis* from Italy and Bosnia. Further the species was included in the genus *Odocnemis* (Nabozhenko 2008) and cited from Bosnia and Herzegovina (Nabozhenko & Löbl 2008). This species was considered by some Italian authors as a simple race or as a junior synonym of *Nalassus plebejus* (Küster, 1850). Type specimens of *Cylindrinotus curticollis* are identically equal to *N. dryadophilus*, and differs only by somewhat shorter pubescence of middle antennomeres and some more thickened antennomeres of males. Thus a new synonymy is established: *Nalassus dryadophilus* (Mulsant, 1854) = *Cylindrinotus curticollis* Reitter 1922, **syn. n.**

Type material. Syntype (male) of *Helops dryadophilus* Mulsant 1854 (ZIN) with labels: "*Helops dryadophilus* Mulsant, Gallia meridionale" (hand-written by E. Ménétriés) and goldish square. E. Ménétriés pinned golden squares only under types. Probably this specimen was received by exchange.

Holotype female (MZH) of *Helops phaeacus* Sahlberg, 1903 (fig. 3, 7) with labels: "Corfu" (printed), "J. Sahlb." (printed), "1234" (hand-written), "Spec. typ." (printed), "Mus. Zool. H:fors, Spec. typ No 832 *Helops phaeacus* J-Sb." (number and name hand-written, other printed), "*H.* (*Nalassus*) sp. nov. ?" (hand-written), "Mus. Zool. Helsinki Loan No C08 – 570" (yellow, printed).

Lectotype (male) and paralectotype (male) of *Cylindrinotus curticollis* Reitter 1922 (NMBA) (figs 4–5, 8) with identical labels: "San Basilio Murgien" (printed), "Winkler" (hand-written), "*curticoll.*" (hand-written), "Rtt. det." (hand-written), "Typus" (red, printed). The lectotype is designated here. The specimen with complete antennae was chosen as lectotype. The paralectotype lacks some right antennomeres.

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