

NOMENCLATRURAL CHANGES IN LUCANINAE (COLEOPTERA: LUCANIDAE)

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ABSTRACT: One junior homonym was detected amongst the Lucanidae generic names and the following replacement name is proposed: *Pycnosiphorus* (*Neopipedus*) nom. nov. for *Pycnosiphorus* (*Epipedus*) Solier, 1851. Also it is given a clarification on the validity of the generic name *Aegus* (*Eubussea*) Zacher, 1913. Accordingly, new combinations are herein proposed for the species currently included in these genera.

KEY WORDS: homonymy, replacement names, new synonym, *Neopipedus*, *Epipedus*, *Alcimus*, Lucanidae, Coleoptera.

Order COLEOPTERA Family LUCANIDAE Genus *PYCNOSIPHORUS* Solier, 1851 Subgenus *NEOPIPEDUS* nom. nov.

Epipedus Solier 1851. in Gay, *Hist. Chile, Zool.*, 5, 49. (Coleoptera: Lucanoidea: Lucanidae: Lucaninae: Sclerostomini). Preoccupied by *Epipedus* Spinola, 1837. *Ess. Ins. Hémipt.*, 314. (Hemiptera: Heteroptera: Pentatomoidea: Pentatomidae: Pentatominae: Carpocorini).

Remarks: Solier (1851) proposed as a new neotropical subgenus name *Epipedus* with the type species *Lucanus coelatus* Blanchard, 1842 (Maes, 2004). Unfortunately, the generic name was already preoccupied by Spinola (1837), who had described the genus *Epipedus* with the type species *Epipedus histrio* Spinola, 1837 in the bug family Pentatomidae. Thus, the generic name *Epipedus* Solier, 1851 is a junior homonym of the genus name *Epipedus* Spinola, 1837. According to Article 60 of the International Code of Zoological Nomenclature, we propose a new replacement name *Neopipedus* **nom. nov.** for *Epipedus* Solier, 1851.

Etymology: from preexisting the subgenus name *Epipedus*.

All current species of the subgenus *Pycnosiphorus* (*Epipedus*) Solier, 1851 as follows:

Family Lucanidae
Subfamily Lucaninae
Tribe Sclerostomini
Genus *Pycnosiphorus* Solier, 1851
= *Godartia* Chenu, 1851
Subgenus *Pycnosiphorus* (*Epipedus*) Solier, 1851

- Type-species *Pycnosiphorus (Epipedus) caelatus* (Blanchard, 1842) [*Lucanus, Sclerognathus*]
 = *Lucanus (Dorcus) variolosus* Hope & Westwood, 1845
 = *Scortizus vittatus* Burmeister, 1847 (nec Eschscholtz) 1847
 = *Pycnosiphorus circumdatus* (Dejean, 1864)
 = *Lucanus (Dorcus) cumingi* Hope & Westwood, 1845
 Species *Pycnosiphorus (Epipedus) franzae* Weinreich, 1958.
 Species *Pycnosiphorus (Epipedus) magnificus* Benesh, 1956
Pycnosiphorus (Epipedus) virgatus (Nagel, 1928) [*Sclerognathus*]
 = *Sclerognathus striatus* Germain, 1911 (nomen nudum)
 Species *Pycnosiphorus (Epipedus) vittatus* (Eschscholtz, 1822) [*Lucanus, Sclerognathus*]
 = *Lucanus rubrovittatus* Blanchard, 1842 [*Pycnosiphorus*]
 = *Dorcus rouleti* Solier, 1851 [*Sclerognathus*]

Mandatory new combinations

Genus *Pycnosiphorus* Solier, 1851

Subgenus *Pycnosiphorus (Neoepipedus)* **objective replacement name**

= *Pycnosiphorus (Epipedus)* Solier, 1851 **new synonym**

Type-species *Pycnosiphorus (Neoepipedus) caelatus* (Blanchard, 1842) **comb. nov.**

Species *Pycnosiphorus (Neoepipedus) franzae* Weinreich, 1958 **comb. nov.**

Species *Pycnosiphorus (Neoepipedus) magnificus* Benesh, 1956 **comb. nov.**

Species *Pycnosiphorus (Neoepipedus) virgatus* (Nagel, 1928) **comb. nov.**

Species *Pycnosiphorus (Neoepipedus) vittatus* (Eschscholtz, 1822) **comb. nov.**

Order COLEOPTERA

Family LUCANIDAE

Genus *AEGUS* MacLeay, 1819

Subgenus *AEGUS (EUBUSSEA)* Zacher, 1913

Alcimus Fairmaire, 1849. Rev. Mag. Zool., (2) 1, 416. (Coleoptera: Lucanoidea: Lucanidae: Lucaninae: Aegini). Preoccupied by *Alcimus* Loew, 1848. Linnaea Entom., 3, 391. (Diptera: Asiloidea: Asilidae: Apocleinae) and *Alcimus* Dallas, 1851. List Specimens Hem. Ins. Coll. Brit. Mus., 1, 218. (Heteroptera: Pentatomoidea: Pentatomidae: Pentatominae: Hoptistoderini).

A clarification on the validity of the generic name *Aegus (Eubussea)* Zacher, 1913: The name *Alcimus* was initially introduced by Loew, 1848 as a new genus for the fly family Asilidae. For the present, the genus *Alcimus* Loew, 1848 includes the species *Alcimus aethiopicus* Bigot, 1891; *Alcimus anax* Speiser, 1924; *Alcimus angustipennis* Loew, 1858; *Alcimus brevipennis* Ricardo, 1922; *Alcimus cuthbertsoni* Hobby, 1934; *Alcimus limbatus* (Macquart, 1838); *Alcimus longipes* (Macquart, 1838); *Alcimus mimus* (Wiedemann, 1828); *Alcimus nigrescens* Ricardo, 1922; *Alcimus nigropalpus* Hobby, 1934; *Alcimus porrectus* (Walker, 1851); *Alcimus rubicundus* Hobby, 1934; *Alcimus rubiginosus* Gerstaecker, 1871; *Alcimus setifemoratus* Hobby, 1934; *Alcimus stenurus* Loew, 1858; *Alcimus taeniopus* (Rondani, 1873); *Alcimus tigris* Karsch, 1888; *Alcimus tristrigatus* Loew, 1858 (Geller-Grimm & Dikow, 2005). Subsequently, Fairmaire, 1849 described a new genus of the family Lucanidae (with the type species *Alcimus dilatatus* Fairmaire, 1849

from New Guinea) under the same generic name. *Alcimus* Fairmaire, 1849 is a subgenus of the genus *Aegus* MacLeay, 1819. Thus, the subgenus *Aegus* (*Alcimus*) Fairmaire, 1849 is a junior homonym of the genus *Alcimus* Loew, 1848. According to the International Code of Zoological Nomenclature, we propose to use the senior synonym subgeneric name *Eubussea* Zacher, 1913 over *Alcimus* Fairmaire, 1849.

The genus name *Alcimus* has been used also for an bug (Heteroptera: Pentatomidae). *Alcimus* Dallas, 1851 (Heteroptera: Pentatomidae) was replaced with the name *Alcimocoris* Bergroth, 1891 that is an objective replacement name for *Alcimus* Dallas, 1851.

All current species of the subgenus *Aegus* (*Alcimus*) Fairmaire, 1849 and mandatory new combinations are as follows:

Family Lucanidae

Subfamily Lucaninae

Tribe Aegini

Genus *Aegus* MacLeay, 1819

= *Xenostomus* Boileau, 1898

Subgenus *Aegus* (*Eubussea*) Zacher, 1913 **comb. nov.**

= *Alcimus* Fairmaire, 1849 **new synonym**

= *Malietao* Kriesche, 1920

Species *Aegus* (*Eubussea*) *alternatus* (Fairmaire, 1881) [*Alcimus*] **comb. nov.**

Species *Aegus* (*Eubussea*) *barbatus* Nagel, 1928 **comb. nov.**

= *Malietao bougainvillensis* Nagel, 1941 [*Aegus*]

Species *Aegus* (*Eubussea*) *caledoniae* Boucher, 1991 **comb. nov.**

Type-species *Aegus* (*Eubussea*) *dilatatus* (Fairmaire, 1849) [*Alcimus*] **comb. nov.**

= *Aegus politus* Montrouzier, 1855

= *Aegus chelififer* Montrouzier, 1855 (nec MacLeay)

Species *Aegus* (*Eubussea*) *hindenburgi* (Kriesche, 1920) [*Malietao*, *Melietao*] **comb. nov.**

= *Aegus swalei* Arrow, 1927

Species *Aegus* (*Eubussea*) *tutuilenis* Arrow, 1927 **comb. nov.**

Species *Aegus* (*Eubussea*) *upoluensis* (Arrow, 1927) [*Alcimus*] **comb. nov.**

= *Alcimus dilatatus* Waterhouse, 1875 (nec Fairmaire)

Species *Aegus* (*Eubussea*) *woodfordi* Waterhouse, 1890 **comb. nov.**

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