

## CHECKLIST OF CHILEAN BRUCHIDAE WITH NEW SYNONYMIES AND NEW COMBINATIONS (COLEOPTERA)

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### ABSTRACT

A checklist of the Chilean Bruchidae is given. New combinations and new synonymies are included. *Amblycerus caryoboriformis* (Pic) and *Stator tigrensis* (Pic) are cited for the first time in Chile.

### RESUMEN

Se entrega una lista de las especies de Bruchidae presentes en Chile. Se incluyen nuevas combinaciones y nuevas sinonimias. *Amblycerus caryoboriformis* (Pic) y *Stator tigrensis* (Pic) son citados por primera vez para Chile.

In recent years, an increase in exports of agricultural products from Chile into the United States has prompted an increased awareness of insects, among them Bruchidae, being carried along with the products. Regretably, keys to genera and species of Bruchidae are lacking for this distinctive fauna. As a first step toward a long-delayed faunal treatment of the family for Chile, this list updates current scientific names for each of the described species found in that country. I am fortunate to have examined all but two of the typespecimens.

Several species originally described in *Bruchus*, and later included in *Acanthoscelides* Blackwelder's (1946) Neotropical checklist are here assigned to *Lithraeus*. Because these species lack metatibial carinae and bear a single subapical femoral denticle (or no denticle), they more properly fit the description of *Lithraeus* than that of *Acanthoscelides*. Each species name so transferred is labeled "New Combination". New Synonyms are similarly indicated.

A modern comprehensive treatment of the taxonomy of the Chilean Bruchidae is needed. Porter (1933) published a brief species list,

and Olalquiaga (1949) presented a short paper on Chilean species intercepted in the U.S. and deposited in the National Museum at Washington, DC. Several species have been treated in papers by Bottimer (1968), Decelle (1966), Kingsolver (1967, 1968a and b, 1973, 1975, 1982, 1983), Kingsolver and Borowiec (1988), Teran and Kingsolver (1977), and by Teran and L'Argentier (1979), but species recorded from the area are buried in catalogues (Pic, 1913; Blackwelder, 1946).

*Spermophagus sophorae* Fahraeus (1839) was described from "Chili" was included in previous species catalogs as part of the Chilean fauna; however, it has not been recovered in the New World since its description. Kingsolver and Borowiec (1988), after a study of typespecimens, concluded that, since *S. sophorae* is known only from Africa and Asia, that "Chili" most likely refers to the former Chinese province of Chili visited by Fahraeus in 1831, and that *S. sophorae* should be stricken from the New World species lists.

This is the first paper to bring together a checklist of the currently known fauna.

Data in this list are arranged in the following order: specific name, author, date and page, original genus, and notes. Complete literature citations can be found in at the end of the paper.

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Family BRUCHIDAE  
Subfamily AMBLYCERINAE

*Amblycerus* Thunberg, 1815

*caryoboriformis* Pic, 1910:110 (*Spermophagus*).

**New record for Chile**

*thomasi* Brèthes, 1925:203 (*Spermophagus*).

**NEW SYNONYMY**

*Zabrotes* Horn, 1885

*subfasciatus* Boheman, 1833:111 (*Spermophagus*).

*musculus* Boheman, 1833:112 (*Spermophagus*)

*semifasciatus* Boheman, 1839:137 (*Spermophagus*)

*pectoralis* Sharp, 1885:492 (*Spermophagus*)

*semicinctus* Horn, 1894:411 (*Spermophagus*)

*dorsopictus* Lepesme, 1941:201 (*Spermophagus*)

Subfamily BRUCHINAE

*Acanthoscelides* Schilsky, 1905

*argillaceus* Sharp, 1885:452 (*Bruchus*)

*armitagei* Pic, 1931:35 (*Bruchus*)

*obreptus* Bridwell, 1942:256

*obtectus* Say, 1831:1 (*Bruchus*)

*irresectus* Fahraeus, 1839:18 (*Bruchus*)

*tetricus* Gyllenhal, 1839:22 (*Bruchus*)

*pallidipes* Fahraeus, 1839:91 (*Bruchus*)

*subellipticus* Wollaston, 1854:15 (*Bruchus*)

*acanthocnemus* Jekel, 1855:15 (*Bruchus*)

*breweri* Crotch, 1867:389 (*Bruchus*)

*varicornis* Motschulsky, 1874:239 (*Bruchus*), not Brulle, 1832

*Bruchus* Linnaeus, 1767

*pisorum* Linnaeus, 1758:356 (*Dermestes*)

*obscurus* Philippi and Philippi, 1864:360 (*Bruchus*), not Fahraeus, 1839.

*philippii* Pic, 1912:92, as a replacement name for *obscurus* Philippi and Philippi, not Fahraeus, 1839. **NEW SYNONYMY**

*Callosobruchus* Pic 1902

*maculatus* Fabricius, 1775:65 (*Bruchus*). This species is provisionally included because I was unable to find specimens that indicated that the species is established in Chile.

*Lithraeus* Bridwell, 1952

*egenus* Philippi and Philippi, 1864:358 (*Bruchus*). **NEW COMBINATION**

*atomarius* Boheman, 1858:11 (*Bruchus*), not Linnaeus, 1761

*pauperculus* Philippi and Philippi, 1864:358 (*Bruchus*), not LeConte, 1857

*chilensis* Schilsky, 1905:20 (*Bruchus*), as a new name for *atomarius* Boheman, 1858, not Linnaeus, 1761. **NEW SYNONYMY**

*chilensis* Pic, 1912:92 (*Bruchus*) as a new name for *pauperculus* Philippi and Philippi, 1864 not LeConte, 1857. **NEW SYNONYMY**

*bimutatus* Pic, 1913:110 (*Bruchus*) as a new name for *chilensis* Pic, 1912, not Schilsky, 1905. **NEW SYNONYMY**

*elegans* Blanchard, 1851:294 (*Bruchus*)

*ruficollis* Motschulsky, 1874:222 (*Bruchus*). **NEW SYNONYMY**

*cingulatus* Motschulsky, 1874:229 (*Bruchus*). **NEW SYNONYMY**

*obscurior* Pic, 1902a:51 (*Bruchus*)

*electus* Bridwell, 1952:125 (*Lithraeus*)

*ferrugineipennis* Blanchard, 1851:294 (*Bruchus*). **NEW COMBINATION**

*leguminarius* Gyllenhal, 1833:69 (*Bruchus*). **NEW COMBINATION**

*ingae* Fahraeus, 1839:27 (*Bruchus*). **NEW SYNONYMY**

*melanocephalus* Fahraeus, 1839:87 (*Bruchus*). **NEW SYNONYMY**

*conspurcatus* Blanchard, 1851:291 (*Bruchus*). **NEW SYNONYMY**

*subroseus* Motschulsky, 1874:227 (*Bruchus*). **NEW SYNONYMY**

*mutatus* Pic, 1912:92 (*Bruchus*). **NEW COMBINATION**

*rufulus* Philippi and Philippi, 1864:360 (*Bruchus*), not Fahraeus, 1839

*bisignatipennis* Pic, 1938a:23 (*Bruchus*). **NEW SYNONYMY**

*poverus* Blanchard, 1851:292 (*Bruchus*). **NEW COMBINATION**

*praecanus* Motschulsky, 1874:220 (*Bruchus*). **NEW COMBINATION**

*pyrrhomelas* Philippi and Philippi, 1864:359 (*Bruchus*). **NEW COMBINATION**

*bicolor* Philippi and Philippi, 1864:359 (*Bruchus*). **NEW SYNONYMY**

*scutellaris* Philippi and Philippi, 1864:358 (*Bruchus*). **NEW COMBINATION**

*Megacerus* Fahraeus, 1839

*eulophus* Erichson, 1847:124 (*Bruchus*)

*laticornis* Blanchard, 1851:288 (*Bruchus*),  
not Blanchard, 1844.

*leucogaster* Blanchard, 1851:293 (*Bruchus*)

*Penthobruchus* Kingsolver, 1973

*germaini* Pic, 1894:65 (*Pachimerus* (sic))

*Pseudopachymerina* Zacher, 1952

*spinipes* Erichson, 1834:252 (*Bruchus*)

*jaspideus* Erichson, 1847:125 (*Bruchus*),

*aculeatus* Motschulsky, 1874:236 (*Bruchus*).

#### NEW SYNONYMY

*lallemani* Marseul, 1875:39 (*Bruchus*  
(*Pachymerus*))

*Rhipibruchus* Bridwell, 1932

*picturatus* Fahraeus, 1839:2 (*Bruchus*)

*leiboldi* Philippi, 1859:669 (*Megalorhipis*)

*Scutobruchus* Kingsolver, 1968

*ceratioborus* Philippi, 1859:670 (*Bruchus*)

*cassivorus* Motschulsky, 1874:207 (*Kytor-*  
*hinus*)

*vagenotatus* Pic, 1938a:19 (*Bruchus*)

*gastoi* Kingsolver, 1968a:285

*Stator* Bridwell, 1946

*testudinarius* Erichson, 1847:124 (*Bruchus*).

#### New record for Chile

*tigrensis* Pic, 1938b:20 (*Bruchus*). **New record  
for Chile.**

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