

Catalog, nomenclatural acts and distribution of Scarabaeinae (Coleoptera, Scarabaeidae) from Ecuador

Version 2

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Abstract

The Ecuadorian territory is divided into four natural regions: the coastal lowlands, the Andean highlands, the Amazon basin and the Galapagos Islands. Each of these regions has its own ecosystems and specific vegetation. The purpose of this work is to compile an updated catalog of the Scarabaeinae (Coleoptera: Scarabaeidae) of Ecuador that includes distributional data and several nomenclatural acts. We compiled data from 26 scientific collections, with the examination of 13,550 scarabaeines; additionally, 375 bibliographic references were reviewed for their taxonomic histories. The Scarabaeinae fauna from Ecuador contains 33 genera and 219 species, with 45 range-restricted (endemic) species and eight records erroneously attributed. The following nomenclatural acts are made: **new status as valid species** (3): *Canthon* (*Glaphyrocanton*) *ohausi* Balthasar, 1939 **stat. n.**; *Deltochilum* (*Calhyboma*) *arrowi* Paulian, 1939 **stat. n.**; and *Dichotomius* (*Dichotomius*) *angustus* (Luederwaldt, 1923) **stat. n.** **New synonyms** (4): *Deltochilum* (*Deltohyboma*) *aureopilosum* Paulian, 1938 **syn. n.**; *Dichotomius* (*Dichotomius*) *provisorius* Luederwaldt, 1925 **syn. n.**; *Dichotomius* (*Dichotomius*) *hempeli* Pereira, 1942 **syn. n.**; and *Uroxys magnus* Balthasar, 1940 **syn. n.** **Revalidated names** (4): *Canthidium* (*Canthidium*) *orbiculatum* (Lucas, 1859); *Coprophanaeus* (*Coprophanaeus*) *florenti* Arnaud, 2002; *Dichotomius* (*Luederwaldtinia*) *fortepunctatus* (Luederwaldt, 1923) and *Phanaeus* (*Notiophanaeus*) *pyrois funereus* Balthasar, 1939. **Revised status** (1): *Canthon* (*Glaphyrocanton*) *subhyalinoides* Balthasar, 1939. **New combination** (1): *Uroxys ohausi* (Balthasar, 1938) **comb. n.** **Lectotype designations (69)**: *Choeridium aeneomicans* Harold, 1868; *Choeridium connexum* Harold, 1868; *Choeridium ecuadorensis* Boucomont, 1928; *Canthidium aurifex* Bates 1887; *Canthidium centrale* Boucomont, 1928; *Canthidium coerulescens* Balthasar, 1939; *Canthidium inoptatum* Balthasar, 1939; *Canthidium lentum* Erichson, 1847; *Onthophagus onitoides* Perty, 1830; *Choeridium orbiculatum* Lucas, 1859; *Canthidium rufinum* Harold, 1867; *Deltochilum aberrans* Harold, 1868; *Canthon angustatus* Harold, 1867; *Canthon balteatus* Boheman, 1858; *Canthon balteatus* var. *lojanus* Balthasar, 1939; *Canthon delicatulus* Balthasar, 1939; *Canthon fuscipes* Erichson, 1847; *Canthon gemellatus* Erichson, 1847; *Canthon luteicollis* Erichson, 1847; *Canthon nitidicollis* Lucas, 1859; *Canthon angustatus ohausi* Balthasar, 1939; *Canthon plagiatus* Harold, 1880; *Canthon politus* Harold, 1868; *Ateuchus bidens* Fabricius, 1801; *Canthon semiopacus* Harold, 1868; *Canthon subhyalinus* Harold, 1867; *Canthon subhyalinoides* Balthasar, 1939; *Hyboma aequinotiale* Buquet, 1844; *Deltochilum erodioides* Harold, 1867; *Deltochilum tessellatum* var. *arrowi* Paulian, 1939; *Deltochilum barbipes* Bates, 1870; *Deltochilum aureopilosum* Paulian, 1938; *Deltochilum batesi* Paulian, 1938; *Hyboma dromedarius* Castelnau, 1840; *Hyboma hyppona* Buquet, 1844; *Hyboma arrogans* Buquet, 1844; *Deltochilum mexicanum* Burmeister, 1848; *Deltochilum orbiculare* Lansberge, 1874; *Deltochilum tessellatum* Bates, 1870; *Pinotus satanas* var. *angustus* Luederwaldt, 1923; *Pinotus provisorius* Luederwaldt, 1925; *Pinotus compressicollis* Luederwaldt, 1929; *Copris scalpellum* Taschenberg, 1870; *Pinotus abnormis* Luederwaldt, 1923; *Pinotus divergens* Luederwaldt, 1923; *Pinotus fortiepunctatus* Luederwaldt, 1923; *Pinotus monstrosus* Harold, 1875; *Pinotus podalirius* Felsche, 1901; *Pinotus problematicus* Luederwaldt, 1923; *Pinotus hempeli* Pereira, 1942; *Pinotus*

protectus Harold, 1867; *Pinotus protectus* var. *tridentatus* Luederwaldt, 1923; *Pinotus quinquedens* Felsche, 1910; *Pinotus quinquelobatus* Felsche, 1901; *Pinotus achamas* Harold, 1867; *Onthophagus dicranoides* Balthasar, 1939; *Onthophagus digitifer* Boucomont, 1932; *Onthophagus lojanus* Balthasar, 1939; *Onthophagus xanthomerus* Bates, 1887; *Phanaeus achilles* Boheman, 1858; *Canthon kaestneri* Balthasar, 1939; *Canthon moniliatus* Bates, 1887; *Uroxys elongatus* Harold, 1868; *Uroxys latesulcatus* Bates, 1891; *Uroxys magnus* Balthasar, 1940; *Pseuduroxys ohausi* Balthasar, 1938; *Uroxys pauliani* Balthasar, 1940; *Uroxys rugatus* Boucomont, 1928 and *Uroxys sulcicollis* Harold, 1880. Maps of geographical distribution of each species are provided.

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Protocol

Step 1.

Step 2.