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A revision of the *Deltochilum* subgenus *Aganhyboma* Kolbe, 1893 (Coleoptera: Scarabaeidae: Scarabaeinae)

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Abstract

The species of the *Deltochilum* subgenus *Aganhyboma*, endemic to Central and South America, are reviewed. The species have been divided into complexes, with a brief diagnosis presented for each. A key for identification of 26 currently recognized species is provided in English and Portuguese. Two major groups within the subgenus are recognized (*tresignatum* and *valgum*). The first is represented by species typically belonging to the subgenus *Aganhyboma* (*Deltochilum (A.) trisignatum*, *D. (A.) kolbei*, *D. (A.) violaceum*, *D. (A.) cupreicolle* and *D. (A.) viridescens* **new status**) and three **new species** described here (*D. (A.) amandaarcanjoae*, *D. (A.) viridicatum* and *D. (A.) titovidaurrei*). The second group (*valgum*) is represented by: *D. (A.) valgum*, *D. (A.) longiceps* **new status**, *D. (A.) acropyge* **new status**, *D. (A.) acanthus*, *D. (A.) icaroides* and *D. (A.) icariforme*), previously assigned to the subgenus *Deltohyboma*. Twelve **new species** are described for the *valgum* group (*D. (A.) schefflerorum*; *D. (A.) streblopodum*; *D. (A.) feeri*; *D. (A.) larseni*; *D. (A.) arturoi*; *D. (A.) finestriatum*; *D. (A.) cangalha*; *D. (A.) alpercata*; *D. (A.) ritamourae*; *D. (A.) kolleri*; *D. (A.) parsi*; *D. (A.) subrubrum*). A **lectotype** is designated for *D. (A.) trisignatum* and *D. (A.) icariforme*. A detailed literature review, synonymies, description, illustration of key morphological characters, data of the studied material and geographic distribution is provided for each species.

Key words: Systematics, dung beetles, millipede predators, *Deltochilum*, *Aganhyboma*

Resumo

As espécies de *Deltochilum* do subgênero *Aganhyboma*, endêmico das Américas do Sul e Central, são revisadas. As espécies foram aqui organizadas em complexos, com uma breve diagnose apresentada. Uma chave para identificação de 26 espécies reconhecidas é apresentada em inglês e português. Dois grandes grupos dentro do gênero são reconhecidos (*tresignatum* e *valgum*). O primeiro representado pelas espécies pertencentes tipicamente ao subgênero *Aganhyboma* (*Deltochilum (A.) trisignatum*, *D. (A.) kolbei*, *D. (A.) violaceum*, *D. (A.) cupreicolle* e *D. (A.) viridescens* **novo status**) e três **novas espécies** descritas aqui (*D. (A.) amandaarcanjoae*, *D. (A.) viridicatum* e *D. (A.) titovidaurrei*). O segundo grupo (*valgum*) é representado pelas espécies: *D. (A.) valgum*, *D. (A.) longiceps* **novo status**, *D. (A.) acropyge* **novo status**, *D. (A.) acanthus*, *D. (A.) icaroides* e *D. (A.) icariforme*), pertencentes anteriormente ao subgênero *Deltohyboma*. Doze **novas espécies** são descritas para o grupo *valgum* (*D. (A.) schefflerorum*; *D. (A.) streblopodum*; *D. (A.) feeri*; *D. (A.) larseni*; *D. (A.) arturoi*; *D. (A.) finestriatum*; *D. (A.) cangalha*; *D. (A.) alpercata*; *D. (A.) ritamourae*; *D. (A.) kolleri*; *D. (A.) parsi*; *D. (A.) subrubrum*). Um **lectótipo** é designado para *D. (A.) trisignatum* e *D. (A.) icariforme*. Uma revisão de literatura detalhada, sinonímias, descrição, ilustração de importantes caracteres morfológicos, dados do material estudado e distribuição geográfica é apresentada para cada espécie.

Palavras-chave: Sistemática, rola-bosta, predadores de milípedes, *Deltochilum*, *Aganhyboma*

Introduction

The subgenus *Aganhyboma* was proposed by Kolbe in 1893 for species of *Deltochilum* (*D. trisignatum* Harold, *D. cupreicolle* Blanchard, *D. atrocoeruleum* Kolbe [invalid name], *D. signiferum* Kolbe [invalid name]). However, he did not designate a type species. The characteristics on which Kolbe defined this subgenus were: medium body size; complete lateral elytral carina, extending the entire length of the elytra and separated from the epipleural carina; absence of anterior tarsi.

Shipp (1897) treated *Aganhyboma* as a genus and designated *D. trisignatum* as the type species. In the most recent revision of *Aganhyboma* by Paulian (1938), two new species (*D. kolbei* Paulian and *D. violaceum* Paulian)

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