



## A new species and notes on the subgenus *Deltochilum* (*Deltochilum*) Eschscholtz, 1822 (Coleoptera: Scarabaeidae: Scarabaeinae: Deltochilini)

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### Abstract

*Deltochilum eurymedon* **new species** is described and illustrated. Two new synonymies are proposed, *Deltochilum* (*Telhyboma*) Kolbe, 1893 = *Deltochilum* (*Deltochilum*) Eschscholtz, 1822 and *D. (D.) scabriusculum montanum* Howden, 1966 = *D. (D.) scabriusculum* Bates, 1887. Diagnostic characters are given and aedeagi are illustrated for each species currently included in the subgenus *Deltochilum*. Finally, distributional data and literature records are also provided.

**Key words:** *Deltochilum eurymedon* new species, diagnosis, distribution, synonymy, literature

### Résumé

On décrit et illustre la **nouvelle espèce** *D. eurymedon*. Les deux synonymies suivantes sont établies, le second épithète étant valide, *Deltochilum* (*Telhyboma*) Kolbe, 1893 = *Deltochilum* (*Deltochilum*) Eschscholtz, 1822, et *D. (D.) scabriusculum montanum* Howden, 1966 = *D. (D.) scabriusculum* Bates, 1887. Des caractères diagnostics et l'illustration des édéages pour toutes les espèces du sous-genre *Deltochilum* sont présentés. Enfin, les données de répartition géographique pour les spécimens déposés dans la Collection nationale canadienne d'insectes, arachnides et nématodes et la collections du Musée canadien de la nature sont compilées et présentées ainsi que les principales références bibliographiques pour les espèces du sous-genre *Deltochilum*.

### Introduction

With 84 species currently known, *Deltochilum* is one of the mega-diverse New World genera and preliminary observation indicates that several additional species remain to be described. *Deltochilum* are large rollers that are ubiquitous in tropical, subtropical and parts of temperate America, reaching as far north as Kentucky in the United States. *Deltochilum* (*D.*) *scabriusculum*, the most northerly member of the subgenus *Deltochilum* has been recorded from southern Texas. In recent years Scarabaeinae species have attracted much attention as they are used as biodiversity indicators and the subject of numerous faunistic studies in Latin America. The purpose of this paper is to describe a species that is known only from Panama and was found among material collected by Robert S. Anderson (Canadian Museum of Nature) in 1996. The Panamanian Scarabaeinae fauna was revised by Howden & Young (1981) and updated by several publications since. Finally, the examination of specimens during the preparation of this publication has led to the proposition of two synonymies in addition to new distributional data and updated literature records.

### Methods

All specimen data, gathered from studied specimens, are deposited in the Canadian National Collection of Insects, Arachnids and Nematodes, Ottawa, Canada (CNC) and the Canadian Museum of Nature, Gatineau, Canada (CMNC), have been compiled using the relational database Mantis. Aedeagi photographs were prepared with a