



Revision of the genus *Penthoscapa* Heller (Coleoptera, Curculionoidea, Entiminae, Eupholini) with notes on the genera of Eupholini from New Guinea

ALEXANDER RIEDEL

Staatliches Museum für Naturkunde, Erbprinzenstr. 13, D-76133 Karlsruhe, Germany. E-mail: riedel@smnk.de

Table of contents

Introduction	2
Methods	2
Remarks on the subgenus <i>Niphetoscapa</i> Heller, 1914	3
Preliminary key to the genera of Eupholini of the Papuan region	3
<i>Penthoscapa</i> Heller 1914	4
Key to the species of <i>Penthoscapa</i>	5
<i>Penthoscapa doormanensis</i> sp. n.	6
<i>Penthoscapa gerhardschereri</i> sp. n.	10
<i>Penthoscapa lorentzi</i> Heller	17
<i>Penthoscapa pulverea</i> sp. n.	22
<i>Penthoscapa similis</i> sp. n.	22
<i>Penthoscapa toxopei</i> (Gressitt & Sedlacek), comb. n.	24
Discussion	25
Acknowledgements	28
References	28

Abstract

A preliminary key to the genera of Papuan Eupholini is given. The hitherto monotypic subgenus *Niphetoscapa* Heller 1914 is transferred from *Rhinoscapha* Montrouzier 1855 to *Gymnopholus* Heller 1901: *Gymnopholus* (*Niphetoscapa*) *wichmanni* (Heller), **comb. n.** It is closely related to *G. audax* Gressitt 1966 and *G. nitidus* Gressitt & Sedlacek 1967 which are moved from the subgenus *Symbiopholus* Gressitt 1966 to *Niphetoscapa*. The record of the genus *Celebia* Thomson 1857 for New Guinea is reported as erroneous. The genus *Penthoscapa* Heller from montane and subalpine habitats of the central mountains of West New Guinea is revised. A lectotype is designated for the type-species, *P. lorentzi* Heller, 1914. *Penthoscapa toxopei* (Gressitt & Sedlacek 1967), **comb. n.** is transferred from *Gymnopholus*. Four new species of *Penthoscapa* are proposed: *P. doormanensis* **sp. n.**, *P. gerhardschereri* **sp. n.**, *P. pulverea* **sp. n.**, *P. similis* **sp. n.** All species of *Penthoscapa* are described, a key is provided, and their distribution is mapped. Reduction of hind wings in *Penthoscapa* and fusion of elytra in *P. gerhardschereri* are interpreted as consequences of flightlessness. Extracuticular pigments are described and illustrated for *P. doormanensis*, *P. gerhardschereri*, and *P. pulverea*. The phylogenetic placement of *Penthoscapa* among Eupholini is briefly discussed.

Key words: *Penthoscapa*, *Gymnopholus*, *Niphetoscapa*, Eupholini, Curculionidae, New Guinea, taxonomy

Introduction

Weevils of the tribe Eupholini Alonso-Zarazaga & Lyal are undoubtedly among the most beautiful and fascinating examples of the Papuan entomofauna. A relatively large body size, an often splendid coloration of