



<http://dx.doi.org/10.11646/zootaxa.3814.2.3>

<http://zoobank.org/urn:lsid:zoobank.org:pub:567E8F5E-369C-428D-9E70-A798B8EC4C8E>

Review of the New Caledonian species of the genus *Pactola* Pascoe, 1876 (Coleoptera: Curculionidae: Eugnomini), with description of two new species

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Abstract

The two species of the genus *Pactola* Pascoe known from New Caledonia, *P. convexa* (Montrouzier) and *P. setacea* (Montrouzier), are redescribed and two new species (*P. magna* sp. n. and *P. proxima* sp. n.) are described. *Pactola kanalensis* (Perroud) is a new junior synonym of *P. setacea* (Montrouzier). A neotype of *Pactola setacea* (Montrouzier) and lectotypes of *Pactola convexa* (Montrouzier) and *Pactola kanalensis* (Perroud) are designated. *Pactola nigra* Hudson is considered conspecific with *Pactola variabilis* Pascoe but formal synonymy requires further study. Colour photographs of the dorsal habitus and line drawings of taxonomically relevant structures of all species are provided, as well as an identification key to all known species of *Pactola*.

Key words: Coleoptera, Curculionidae, Eugnomini, *Pactola*, taxonomy, new species, new synonym, New Caledonia, key

Introduction

The tribe Eugnomini, currently comprising about 200 valid species in 26 genera, is known to occur mainly from New Zealand (19 genera), Australia (six genera) and New Caledonia (four genera). Four genera are also known from South America and one from New Guinea. *Rhopalomerus* Blanchard, 1849 occurs in New Zealand, Australia and also South America (Alonso-Zarazaga & Lyal, 1999). Recently, Mazur (2012) extended the known range of the tribe to the Fiji Archipelago (Table 1).

Pactola Pascoe currently comprises 12 (plus one doubtful species—see the note below) described species, with seven endemic species occurring in New Zealand, four in New Caledonia and one in Fiji. Three species are described from New Caledonia, but one of them is here regarded as being conspecific with another and two new ones are described. In this paper, the New Caledonia species are reviewed, two new species are described and an identification key to all described species of *Pactola* is given.

Material and methods

Measurements were taken using a calibrated-grid eyepiece (C-W10xB/22) with a stereomicroscope (NIKON SMZ-800). Genitalia preparations were made according to the standard method of macerating the separated abdomen for 5–10 minutes in a hot KOH solution. The terminalia were stained with Chlorazol black E. Photographs were taken using a CANON Power Shot A640 camera mounted on the stereomicroscope and processed using the Helicon Focus v. 4.50 and PhotoFiltre v. 6.1 software programmes. The map was created using the freeware DIVA-GIS v. 7.5.0.

The nomenclature of the male terminalia and abbreviations of particular measurements (partly modified) follow Wanat (2001) (alphabetical order): **apw**—pronotal width at anterior margin; **arw**—width of rostrum apex; **bew**—width of elytral base (measured through middle of humeral calli); **bpw**—pronotal width at base; **el**—elytral length, measured in dorsal view with base and apex of elytra on same level; **eyl**—eye length, measured in dorsal

Acknowledgments

I would like to thank Geoff Monteith (QM), Helene Perrin (MNHN), Leonie Clunie (NZAC), Max Barclay (BMNH), Marek Wanat (MNHW), who kindly loaned me the specimens used in this study. Special thanks to Guillermo Kuschel who loaned some specimens to study and had many interesting comments about type specimens and zoological nomenclature, as well as for suggestions and incentives to study eugnomines from New Caledonia. I also thank Roman Holyński, Jerzy A. Lis (Opole University), Andrzej Wolski (Opole University), Robert Anderson (Canadian Museum of Nature), and an anonymous reviewer for advice used during preparation of this work.

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