

A taxonomic revision of the *Pheidole roosevelti*-group (Hymenoptera: Formicidae) in Fiji

ELI M. SARNAT

Department of Entomology, University of California, Davis, One Shields Ave, Davis, CA 95616. E-mail: ndemik@yahoo.com

Table of contents

Abstract	1
Introduction	2
Taxonomic history	2
Sources and deposition of material	3
Diagnosis of the <i>Pheidole roosevelti</i> -group	7
Key to species	8
Diagnosis of <i>Pheidole roosevelti</i> -group	11
Species accounts	12
<i>Pheidole bula</i> Sarnat sp. n.	12
<i>Pheidole colaensis</i> Mann	17
<i>Pheidole furcata</i> Sarnat sp. n.	19
<i>Pheidole pegasus</i> Sarnat sp. n.	21
<i>Pheidole roosevelti</i> Mann	22
<i>Pheidole simplispinosa</i> Sarnat sp. n.	26
<i>Pheidole uncagena</i> Sarnat sp. n.	28
Distribution of the <i>Pheidole roosevelti</i> -group	31
Comparison with other pacific <i>Pheidole</i>	32
Biogeography of the <i>Pheidole roosevelti</i> -group	33
Acknowledgments	35
Literature cited	35

Abstract

This taxonomic revision treats a radiation of Fijian ants described here as belonging to the *Pheidole roosevelti*-group. Many of the species belonging to the group exhibit remarkable modification to the shape of their propodeal spines, mesonotums and heads. Seven species, five of which are described as new, are recognized: *P. bula* sp. n., *P. colaensis* Mann 1921, *P. furcata* sp. n., *P. pegasus* sp. n., *P. roosevelti* Mann 1921, *P. simplispinosa* sp. n., and *P. uncagena* sp. n. Descriptions and diagnostic keys are provided for the minor workers, major workers and queens. All species are illustrated with digital images, and their distributions across the Fijian archipelago are illustrated with a map. The group is compared to congeners known from the Pacific Island region with special attention given to species of the *Pheidole quadricuspis*, *P. quadrispinosa* and *P. cervicornis* groups. The biogeography of the group is briefly discussed. Preliminary morphological study suggests the group is monophyletic and most closely related to species of the *P. cervicornis*-group Emery from New Guinea.

Key words: Biogeography, Fiji, key to species, taxonomy, zoogeography