



Zootaxa 2181: 1–90 (2009)
www.mapress.com/zootaxa/

Copyright © 2009 · Magnolia Press

Monograph

ISSN 1175-5326 (print edition)

ZOOTAXA

ISSN 1175-5334 (online edition)

ZOOTAXA

2181

Additions to the taxonomy of New World *Pheidole* (Hymenoptera: Formicidae)

JOHN T. LONGINO

The Evergreen State College, Olympia WA 98505 USA. E-mail: longinoj@evergreen.edu



Magnolia Press
Auckland, New Zealand

Accepted by J. Pitts: 29 Apr. 2009; published: 6 Aug. 2009

John T. Longino

Additions to the taxonomy of New World *Pheidole* (Hymenoptera: Formicidae)

(*Zootaxa* 2181)

90 pp.; 30 cm.

6 Aug. 2009

ISBN 978-1-86977-379-3 (paperback)

ISBN 978-1-86977-380-9 (Online edition)

FIRST PUBLISHED IN 2009 BY

Magnolia Press

P.O. Box 41-383

Auckland 1346

New Zealand

e-mail: zootaxa@mapress.com

<http://www.mapress.com/zootaxa/>

© 2009 Magnolia Press

All rights reserved.

No part of this publication may be reproduced, stored, transmitted or disseminated, in any form, or by any means, without prior written permission from the publisher, to whom all requests to reproduce copyright material should be directed in writing.

This authorization does not extend to any other kind of copying, by any means, in any form, and for any purpose other than private research use.

ISSN 1175-5326 (Print edition)

ISSN 1175-5334 (Online edition)

Table of contents

Abstract	4
Introduction	5
Characters	6
Measurements	7
Methods.....	8
Taxonomic synopsis	9
<i>Pheidole acamata</i>	9
<i>Pheidole angusticeps</i>	12
<i>Pheidole arachnion</i>	13
<i>Pheidole bigote</i> new species	13
<i>Pheidole bilimeki</i>	16
<i>Pheidole boliviana</i>	16
<i>Pheidole boltoni</i>	17
<i>Pheidole branstetteri</i> new species.....	17
<i>Pheidole carinote</i> new species	20
<i>Pheidole debilis</i> new species.....	23
<i>Pheidole deceptrix</i>	25
<i>Pheidole eowilsoni</i> new species.....	26
<i>Pheidole epiphyta</i> new species	29
<i>Pheidole erratilis</i>	31
<i>Pheidole exarata</i>	31
<i>Pheidole fossimandibula</i> new species	33
<i>Pheidole gymnoceras</i> new species	34
<i>Pheidole harrisonfordi</i>	37
<i>Pheidole innupta</i>	38
<i>Pheidole janzeni</i> new species	40
<i>Pheidole karolmorae</i> new species	41
<i>Pheidole karolsetosa</i> new species	44
<i>Pheidole lagunculinoda</i> new species	48
<i>Pheidole laselva</i>	49
<i>Pheidole leoncortesi</i> new species	49
<i>Pheidole mackayi</i>	52
<i>Pheidole mesomontana</i> new species	54
<i>Pheidole mooreorum</i>	56
<i>Pheidole nebulosa</i>	57
<i>Pheidole nitidicollis</i>	58
<i>Pheidole pararugiceps</i> new species	58
<i>Pheidole perpusilla</i>	60
<i>Pheidole phanigaster</i> new species	61
<i>Pheidole picobarva</i> new species	63
<i>Pheidole potosiana</i>	66
<i>Pheidole psilogaster</i>	66
<i>Pheidole pubiventris</i>	66
<i>Pheidole purpurea</i> new species.....	67
<i>Pheidole radoszkowskii</i>	70
<i>Pheidole rhinoceros</i>	70
<i>Pheidole rhinomontana</i> new species	71
<i>Pheidole sculptior</i>	74

<i>Pheidole sebofila</i> new species	74
<i>Pheidole sparsisculpta</i> new species	77
<i>Pheidole susannae</i>	79
<i>Pheidole synanthropica</i> new species.....	80
<i>Pheidole tenuicephala</i> new species.....	84
<i>Pheidole texticeps</i>	85
<i>Pheidole vorax</i>	86
<i>Pheidole walkeri</i>	86
Acknowledgments.....	88
Literature cited	88

Abstract

The hyperdiverse ant genus *Pheidole* has its center of diversity in the New World, where over 600 species occur. In spite of recent revisionary work (Wilson 2003) new species continue to be discovered and understanding of geographic variation of named species continues to improve. In this report new species and taxonomic changes are proposed for the Central American fauna. The following new species are described: *P. bigote*, *P. branstetteri*, *P. carinote*, *P. debilis*, *P. eowilsoni*, *P. epiphyta*, *P. fossimandibula*, *P. gymnoceras*, *P. janzeni*, *P. karolmora*, *P. karolsetosa*, *P. lagunculinoda*, *P. leoncortesi*, *P. mesomontana*, *P. pararugiceps*, *P. phanigaster*, *P. picobarva*, *P. purpurea*, *P. rhinomontana*, *P. sebofila*, *P. sparsisculpta*, *P. synanthropica*, and *P. tenuicephala*. The following new synonymy is proposed, with the senior synonym listed first and the junior synonym(s) in parentheses: *P. angusticeps* Wilson (= *P. gradifera* Wilson); *P. arachnion* Wilson (= *P. iracunda* Wilson); *P. bilimeki* Mayr (= *P. rectiluma* Wilson); *P. boliviana* Wilson (= *P. mincana* Wilson, *P. scitula* Wilson); *P. boltoni* Wilson (= *P. humida* Wilson); *P. deceptrix* Forel (= *P. chiapasana* Wilson, *P. variceps* Wilson); *P. erratilis* Wilson (= *P. petersoni* Wilson); *P. exarata* Emery (= *P. grantae* Forel); *P. harrisonfordi* Wilson (= *P. prolixa* Wilson, *P. ruida* Wilson, *P. tenebra* Wilson); *P. laselva* Wilson (= *P. ebenina* Wilson); *P. mooreorum* Wilson (= *P. fariasana* Wilson); *P. nebulosa* Wilson (= *P. scabriventris* Wilson); *P. nitidicollis* Emery (= *P. sagana* Wheeler); *P. perpusilla* Emery (= *P. breviscapa* Forel); *P. pubiventris* Mayr (= *P. variegata* Emery, *P. indistincta* Forel); *P. radoszkowskii* Mayr (= *P. medialis* Wilson); *P. sculptior* Forel (= *P. tayrona* Wilson); *P. susannae* Forel (= *P. obscurior* Forel and its synonym *P. partita* Mayr); *P. texticeps* Wilson (= *P. perdiligens* Wilson); *P. vorax* (Fabricius) (= *P. cephalica* F. Smith and its synonyms *P. opaca* Mayr, *P. incrustata* Forel, *P. sarrita* Forel, *P. apterostigmoides* Weber); *P. walkeri* Mann (= *P. arietans* Wilson, *P. glyphoderma* Wilson, *P. triumbonata* Wilson). *Pheidole innupta* Menozzi is removed from synonymy under *P. alfaroi* and revalidated.

Key words: biodiversity, Central America, Myrmicinae, hyperdiversity