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Tribe Coelidiini: new genera and new species of Neotropical leafhoppers with revised key to genera and species, taxonomic fragmentation and new distribution records (Hemiptera: Cicadellidae: Coelidiinae)

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Abstract

Fragmentation of the genera *Boliviela* DeLong and *Paralidia* Nielson is proposed after several new species assigned to them appeared to alter their original generic concepts. Follow up studies of the taxonomic relationship of these and other closely related genera in a genus group (*Boliviela*, *Dicodia* Nielson, *Gracilidia* Nielson, *Tinocrius* Nielson and *Paralidia*) supported recognition of four new genera: *Collasuyusana*, type-species, *Boliviela retrorsa* Nielson; *Ventrolidia*, type-species, *Boliviela ortha* Nielson; *Carinoscapula*, type-species, *Boliviela bispinata* Nielson; and *Armaturolidia*, type-species, *Paralidia denticulata* Nielson. Five species are removed from *Boliviela* and designated new combinations: *Ventrolidia ortha* (DeLong), *Ventrolidia paraortha* (Nielson), *Carinoscapula sarcula* (Nielson), *Carinoscapula bispinosa* (Nielson) and *Collasuyusana retrorsa* (Nielson). Two species are removed from *Paralidia* and designated new combinations: *Armaturolidia spinata* (Nielson) and *Armaturolidia denticulata* (Nielson). *Godoyana* Nielson, type-species *Godoyana laselvensis* Nielson is suppressed as a junior synonym of *Coelidia* Germar. This species is assigned to *Coelidia* and designated new combination: *Coelidia laselvensis* (Nielson). A key to 9 genera in the genus group is also presented. A data matrix table of diagnostic generic characters is given for the *Boliviela* genus group. Thirty-nine new species are described and illustrated with a revised key to species in the following genera: *Armaturolidia ordocrista*, **sp. nov.**; *Boliviela cucurbita*, **sp. nov.**; *B. caverna*, **sp. nov.**; *B. biungulata*, **sp. nov.**; *Coelidia costaricensis*, **sp. nov.**; *C. angulata*, **sp. nov.**; *Collasuyusana picea*, **sp. nov.**; *C. diversa*, **sp. nov.**; *C. collaris*, **sp. nov.**; *C. spenceri*, **sp. nov.**; *C. recurvata*, **sp. nov.**; *C. bifurcata*, **sp. nov.**; *C. lanceolata*, **sp. nov.**; *Dialodia bispinata*, **sp. nov.**, *D. longilobata*, **sp. nov.**, *D. brevilobata*, **sp. nov.**, *D. aviculobata*, **sp. nov.**; *D. brevisetacea*, **sp. nov.**; *D. bilongata*, **sp. nov.**; *Dicodia recurvata*, **sp. nov.**; *Evansolidia setacea*, **sp. nov.**; *E. inca*, **sp. nov.**; *E. unilamina*, **sp. nov.**; *E. episetacea*, **sp. nov.**; *E. recurvata*, **sp. nov.**; *E. gracilitas*, **sp. nov.**; *E. lyrata*, **sp. nov.**; *E. inflata*, **sp. nov.**; *E. fletcheri*, **sp. nov.**; *Gracilidia minuta*, **sp. nov.**; *G. longiuscula*, **sp. nov.**; *G. biflangata*, **sp. nov.**; *G. tubercula*, **sp. nov.**; *G. uniflangata*, **sp. nov.**; *G. membrana*, **sp. nov.**; *Omanolidia inflata*, **sp. nov.**; *Spinolidia moweri*, **sp. nov.**; *Tinocrius angustus*, **sp. nov.** and *T. sinuatus*, **sp. nov.** Taxonomic review and new distribution records are also given.

Key words: Generic revision, data matrix, new combinations, new synonymy, new records, key, distribution, taxonomy

Introduction

This paper is the second in a series of taxonomic studies of leafhoppers that focus chiefly on the fauna of Colombia where 32 of the 39 new species treated herein occur. Among them, 18 species were assigned to 5 genera: *Boliviela* DeLong, *Dicodia* Nielson, *Gracilidia* Nielson, *Tinocrius* Nielson and *Paralidia* Nielson, which constitute a genus group in which 2 genera (*Boliviela* and *Paralidia*) were fragmented resulting in new genera and assignment of some species to other genera in the tribe. A data matrix table is presented for 9 genera of the *Boliviela* reconstituted genus group, showing diagnostic features which identify and distinguish each genus. As a result of this reassessment, 4 new genera are established: *Armaturolidia*, type-species, *Paralidia denticulata* Nielson; *Carinoscapula*, type-species, *Boliviela bispinosa* Nielson; *Collasuyusana*, type-species, *Boliviela retrorsa* Nielson; and *Ventrolidia*, type-species, *Boliviela ortha* Nielson. A key to 9 genera in the genus group is also provided.

Thirty nine new species are described and illustrated as follows: 3 in *Boliviela*, 7 in *Collasuyusana*, 2 in *Coelidia* Germar, 6 in *Dialodia* McKamey, 9 in *Evansolidia* Nielson, 6 in *Gracilidia*, 1 each in *Armaturolidia*, *Dicodia* Nielson, *Omanolidia* Nielson and *Spinolidia* Nielson and 2 in *Tinocrius* Nielson. Five species are removed from *Boliviela* and designated new combinations in the following genera: 2 in *Carinoscapula*, 1 in *Collasuyusana* and 2