A NEW BRACHYPTEROUS MESEPIPSOCUS (PSOCODEA: 'PSOCOPTERA': EPIPSOCIDAE) FROM BOLIVIA

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ABSTRACT. A new species of brachypterous Mesepipsocus, the first species of this genus recorded in Bolivia, is here described and illustrated. It has caeciliusid wing venation, and the gonapophyses lack V1. The type is deposited in the National Collection of Insects, Instituto de Biología, UNAM, México City.
Key words: Epipsocetidae, Epipsocidae, Mesepipsocus, Bolivia, new species.

INTRODUCTION
The knowledge of the Bolivian Psocoptera is rather limited. Lienhard & Smithers (2002), cite only 26 species in 19 genera occurring in the country. García Aldrete (2004 a, and b), described the genera Ianthorntonia, with five species, and Rogojiella, with one species. I have done some psocid collecting in Bolivia recently and have identified at least 27 genera in addition to those recorded by Lienhard & Smithers (2002). In this paper I describe and illustrate one species of Mesepipsocus, the first known in Bolivia, peculiar in being brachypterous and in having caeciliusid forewing venation; it is assigned in Mesepipsocus by having V2+3 strongly heeled anteriorly, and by lacking V1.
MATERIAL AND METHODS
The only specimen available for study, was dissected in 80% ethyl alcohol, and its parts (head, right legs and wings, and genitalia), were mounted on a slide in Canada balsam. Before dissecting, the specimen was placed in 80% ethyl alcohol under a dissecting microscope illuminated with white, cold light at 80X to record coloration. Measurements, given in µm, were taken with a filar micrometer with a measuring unit of 1.36 µm for wings and 0.53 µm for other parts. Abbreviations of parts measured are the following: FW, HW: length of fore- and hind- wings, F, T, t1 and t2: length of femur, tibia and tarsomeres 1 and 2 of right hind leg, Mx4: length of fourth segment of right maxillary palp, f1…fn: length of flagellomeres 1…n of right antenna, IO, D and d: minimum distance between compound eyes, antero-posterior diameter and transverse diameter of right compound eye, all in dorsal view of head, PO: d/D. The type is deposited in the National Insect Collection, Instituto de Biología, Universidad Nacional Autónoma de México, Mexico City (Coden: CNIN).

Family Epipsocidae

Mesepipsocus bolivianus n. sp. (♀).
(Figs. 1-8)

Color. Body reddish brown. Compound eyes black, ocelli hyaline, with ochre centripetal crescents. Scape and pedicel pale brown; f1 almost white, except for brown distal fourth, rest of the flagellum brown.

Morphology. Forewing brachypterous, elytriform, with venation caeciliusid, pterostigma wider in the middle, Rs and M almost straight, areola postica elongate, posteriorly almost reaching M3; hindwing represented by a small winglet (Fig. 1). Lacinial tip (Fig. 6), with outer cusp broad, bearing five denticles. Subgenital plate (Fig. 2), wide, narrow, setose; posterior border obtusely convex. Gonapophyses (Fig. 7): robust, V2 a short, setose lobe on side of V3; distal process slender, with a field of microspines distally; V2+3 with a short, stout heel anteriorly. Ninth sternum unpigmented, with spermapore posteriorly (Fig. 7). Paraproct (Fig. 5), almost semicircular, setose as illustrated; sensory field small, almost circular, with seven trichobothria on basal rosettes. Epiproct (Fig. 5), straight anteriorly, rounded posteriorly, with a group of three mesal setae near anterior border, and other setae as illustrated, mostly on distal half.


Etymology. The specific name refers to the country of origin of this species.
**Comments.** As presently known, *Mesepipsocus* needs revision (Casasola González 2006). *M. andrewsi* (Turner), possibly *M. antillanus* (Banks), *M. broadheadi* (Turner), and *M. icarus* (Banks), constitute a taxon of generic level, distinct from *Mesepipsocus*, on basis of the genital structure of the males. The same applies to *M. proctus* (New & Thornton), which presents an autapomorphic epiproct, completely different from the epiproct shown by the other species of *Mesepipsocus*. Of the 25 remaining species, 12 present caeciliusid venation, including the amber fossil species *M. clarus* Mockford, eight species have forewing M dichotomously branched, resulting in four M veins, four species have M with five branches, and one species is brachypterous, with forewing venation not well defined; in all, V2+3 has a distinct anterior heel, and V1 is missing, although a few undescribed South American species have a short V1.

Brachyptery is not common in *Mesepipsocus*, and in general in the genera of Epipsocetae, only the Brazilian *M. brunellus* (New 1972), from Mato Grosso, shows the same brachypterous plan as *M. bolivianus*, with forewing brachypterous and hindwing much reduced, represented only by a winglet. In the whole of the genera of Epipsocetae, only *Epipsocus quurcus* Roesler (1940), from Santa Catharina, Brazil has a brachypterous form, and the Chinese *Liratepipsocus jinghongicus* Li Fasheng (2002) is also brachypterous.

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**LITERATURE CITED**


