



Ectopsocidae (Psocodea: ‘Psocoptera’) from Valle del Cauca and NNP Gorgona, Colombia

OSCAR FERNANDO SAENZ MANCHOLA¹, RANULFO GONZÁLEZ OBANDO¹
& ALFONSO N. GARCÍA ALDRETE²

¹Departamento de Biología, Facultad de Ciencias Naturales y Exactas, Universidad del Valle, Santiago de Cali, Colombia.
E-mail: oscar.saenz@correounivalle.edu.co; ranulfo.gonzalez@correounivalle.edu.co

²Departamento de Zoología, Instituto de Biología, Universidad Nacional Autónoma de México, Apartado Postal 70-153, 04510 México, D. F. MÉXICO. E-mail: anga@ib.unam.mx

Abstract

The results of a survey of the psocid family Ectopsocidae in Valle del Cauca and NNP Gorgona, are here presented. Fifteen species were identified, in the genera *Ectopsocus* (14 species), and *Ectopsocopsis* (one species); four of the *Ectopsocus* species are new to science and are here described and illustrated. The male of *E. thornstoni* García Aldrete is here described. Records of *Ectopsocopsis cryptomeriae* (Enderlein), *Ectopsocus briggsi* McLachlan, *E. californicus* Banks, *E. columbianus* Badonnel, *E. maindroni* Badonnel, *E. meridionalis* Ribaga, *E. pilosus* Badonnel, *E. richardsi* Pearman, *E. titschacki* Jentsch, and *E. vilhenai* Badonnel, are provided. Ten species were found only in Valle del Cauca, two species were found only in the NNP Gorgona, and three species were found at both sites. The specimens studied are deposited in the Entomological Museum, Universidad del Valle, Santiago de Cali, Colombia (MUSENUV).

Key words: Taxonomy, neotropics, *Ectopsocus*, *Ectopsocopsis*

Introduction

The family Ectopsocidae is represented in the neotropics by 29 species in three genera: *Ectopsocus* McLachlan, *Ectopsocopsis* Badonnel and *Belipsocus* García Aldrete. The richest country for this family in the neotropics is Mexico, with 21 species, 20 species in *Ectopsocus* (García Aldrete, 1991) and one species in *Ectopsocopsis*. In Colombia, the additions and corrections (Lienhard, 2012) to the world catalogue of Psocoptera (Lienhard & Smithers, 2002) indicate that only five species have been recorded: *Ectopsocus columbianus* Badonnel, *E. meridionalis* Ribaga, *E. richardsi* Pearman, *E. titschacki* Jentsch and *E. californicus* Banks, but Sarria *et al.* (unpubl. data) recorded in NNP Gorgona five morphospecies of *Ectopsocus*, which were not identified.

Upon examining specimens in the reference collection of the Entomological Research Group at the Universidad del Valle (GIE), and specimens collected in several localities in Valle del Cauca, 15 species were found, four of them undescribed, and one, *E. pilosus* Badonnel, representing a new record in the Americas. The purpose of this paper is to describe and illustrate the new species, and to list the species in Valle del Cauca and NNP Gorgona. An identification key to the above species is included.

Materials and methods

Four hundred thirty specimens were available for study, 53 females and 40 males were dissected in 80 % ethanol, and their parts (head, right wings and legs and genitals) were processed according to González *et al.* (2011). The parts mounted on slides were measured and photographed with a Canon T3i camera and Helicon Focus program.

Measurements are given in microns. Abbreviations of parts measured are as follows: FW, HW: lengths of right

References

- Badonnel, A. (1955) Psocopteres de l'Angola. *Publicacoes Culturais da Companhia de Diamantes de Angola*, 26, 1–267.
- García Aldrete, A.N. (1991) The Mexican species of *Ectopsocus* (Psocoptera: Ectopsocidae) and an analysis of the distribution of the genus. *Anales del Instituto de Biología, Universidad Nacional Autónoma México, Serie Zoología*, 62 (1), 57–96.
- García Aldrete, A.N. & Mockford, E.L. (2009) A list of Psocoptera (Insecta: Psocodea) from Brazil. *Revista Mexicana de Biodiversidad*, 80, 666–673.
- González Obando, R., García Aldrete, A.N. & Carrejo, N.S. (2011) A new species of *Steleops* Enderlein, and a Colombian record of *S. pulcher* New (Psocodea: 'Psocoptera': Psocidae). *Zootaxa*, 2735, 23–27.
- Li, F. (2002) *Psocoptera of China*. 2 Vols. *National Natural Science Foundation of China*. Science Press, Beijing, 1976 pp. + 10 plates of illustrations.
- Lienhard, C. & Smithers, C.N. (2002) *Psocoptera (Insecta)*. *World Catalogue and Bibliography*. Instrumenta Biodiversitatis V. Muséum d'Histoire Naturelle, Genève, 745 pp.
- Lienhard, C. (2012) Additions and Corrections (Part II) to Lienhard, C. & Smithers, C.N. (2002) "Psocoptera (Insecta). World Catalogue and Bibliography". In: Yoshizawa, K. (Ed.), *Psocid News. The Psocidologists' Newsletter*. No. 14 (February 29, 2012). Systematic Entomology, Faculty of Agriculture, Hokkaido University, Sapporo, pp. 1–14.
- Thornton, I.W.B. & Wong, S.K. (1968) The peripsocid fauna (Psocoptera) of the Oriental region and the Pacific. *Pacific Insects Monograph*, 19, 1–158.