



Descriptions and records of Cladiopsocidae and Dolabellopsocidae (Insecta: Psocodea: ‘Psocoptera’) from Valle del Cauca and National Natural Park Gorgona, Colombia

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Abstract

The results of a survey on the species diversity of the families Cladiopsocidae and Dolabellopsocidae (Psocodea: ‘Psocoptera’: Psocomorpha: Epipsocetae) in Valle del Cauca and in the National Natural Park (NNP) Gorgona, Colombia, are presented. The specimens studied were collected in the context of two scientific projects, in which 12 species in the two families were identified, five in Cladiopsocidae and seven in Dolabellopsocidae. In the first family, *Cladiopsocus* presented a new record in the country and four new species; in the latter, two genera were identified, *Dolabellopsocus*, with three new species and two new records, and *Isthmopsocus*, with two new species. This study presents the description of the nine new species from Valle del Cauca and NNP Gorgona, the new records for Colombia and identification keys to the neotropical species of both families.

Key words: *Cladiopsocus*, *Dolabellopsocus*, *Isthmopsocus*, neotropics, taxonomy

Introduction

We here refer to ‘Psocoptera’ as the non-parasite members of the order Psocodea, in which seven suborders are recognized, four of them parasites of birds and mammals, and three suborders free living, non-parasites (Yoshizawa *et al.* 2006). The families Cladiopsocidae Smithers (1972) and Dolabellopsocidae Eertmoed (1973), belong in suborder Psocomorpha, infraorder Epipsocetae (Yoshizawa & Johnson 2014).

This study is part of a long term ongoing project, which aims to document the biological richness of ‘Psocoptera’, mostly in the department of Valle del Cauca, and in the National Natural Park (NNP) Gorgona, that has recently extended to the neighboring departments of Cauca and Caldas, and to the more distant department of Putumayo. The project was initiated in 2007 in the NNP Gorgona (see Sarria *et al.* 2014a, b), by members of the “Grupo de Investigaciones Entomológicas” (G.I.E.), Departamento de Biología, Facultad de Ciencias Naturales y Exactas, Universidad del Valle, Santiago de Cali, Colombia, and continues to date. Sarria *et al.* (2014a), recorded in NNP Gorgona, 75 species of psocids, in 42 genera and 21 families; among them, they found one species each of *Cladiopsocus*, *Dolabellopsocus*, and *Isthmopsocus*, all unidentified to species level.

As part of the above mentioned project, García Aldrete *et al.* (2013), recorded in the same areas, 84 species in 17 genera of Epipsocetae; among them, they found five species of *Cladiopsocus*, four species new and one described; they also found five species of *Dolabellopsocus*, with three species new and two described; in addition, they found two undescribed species of *Isthmopsocus*. Those new species in the three genera above, are the ones described in this paper.

The psocid family Cladiopsocidae, initially defined by Smithers (1972) and redefined by Casasola González (2006) is monogeneric, including only the genus *Cladiopsocus*; its monophyly is supported by the presence of a

TABLE 2. continued

Species	Brazil	Colombia	Peru	Venezuela	Others
<i>D. pectenatus</i> Eertmoed	X				
<i>D. pictus</i> Mockford	X				
<i>D. pygmaeus</i> (New)	X				
<i>D. roseus</i> Eertmoed					Mexico
<i>D. roseusoides</i> n. sp.		X			
<i>D. similis</i> Mockford	X	X			
<i>D. yundiguai</i> n. sp.		X			
<i>D. spinosus</i> Mockford	X				
Total	12	6	3	2	5
<i>Isthmopsocus barbatus</i> Mockford	X				
<i>I. barbatusoides</i> n. sp.		X			
<i>I. breviceps</i> (New)	X				
<i>I. foliatus</i> n. sp.		X			
<i>I. hylonomus</i> Eertmoed					Panama
<i>I. imperfectus</i> Badonnel		X			
<i>I. lanceatus</i> Mockford	X				
<i>I. luridus</i> New	X				
<i>I. ornatus</i> (New)	X				
<i>I. radulatus</i> New	X				
<i>I. speculatus</i> Mockford	X				
Total	7	3	0	0	1

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