

***Picicola* Clay and Meinertzhagen (Phthiraptera: Philopteridae) from jacamars and puffbirds (Piciformes: Galbulidae, Bucconidae), with descriptions of five new species**

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Abstract

The three species of previously named *Picicola* Clay and Meinertzhagen from jacamars and puffbirds are redescribed and five new species are described and illustrated. These new species and their type hosts are: *Picicola valquii* ex *Notharchus tectus* (Boddaert), *P. naokii* ex *Bucco capensis* Linnaeus, *P. osheai* ex *Malacoptila fusca* (J.F. Gmelin), *P. faucetti* ex *Chelidoptera tenebrosa* (Pallas), and *P. oneilli* ex *Notharchus macrorhynchos* (J.F. Gmelin). We collected partial cytochrome oxidase I (COI) sequences for all of the species in this group, and these data support the genetic distinctiveness of these new species. A key is provided for the identification of all eight species of *Picicola* from jacamars and puffbirds.

Key words: chewing lice, phylogeny, taxonomy

Introduction

The status of the currently recognized species of the philopterid chewing louse genus *Picicola* Clay and Meinertzhagen has been reviewed by Valim and Linardi (2006) and two molecular data sets strongly support *Picicola* found on the Jacamar (Galbulidae) and Puffbird (Bucconidae) families as a monophyletic group (Johnson *et al.* 2002, Weckstein 2003). The description of two new species of this genus, respectively from a puffbird and a jacamar (Valim and Linardi 2006), coupled with the earlier description of a new species from a puffbird by Oniki and Emerson (1981), brings the total *Picicola* now known from these two host families to three. Here, we redescribe the three known species and describe and illustrate five additional new species in this clade of *Picicola* following the collection of additional specimens by the junior author and his colleagues.