

Article



Species in the genus *Bonomiella* Conci, 1942 (Phthiraptera: Menoponidae) from Argentina and Chile

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Abstract

Species of the genus *Bonomiella* Conci, 1942, are a parasitic on bird species belonging to the family Columbidae (Aves, Columbiformes). In the present study we redescribe the species *Bonomiella columbae* Emerson, 1957 from Argentinean specimens, and describe the new species *B. zenaidae* sp. nov. from *Zenaida auriculata virgate* Bertoni, 1901, and *Z. auriculata auriculata* (des Murs 1847) from Argentina and Chile. Descriptions include male and female diagnostic features, and also descriptions of nymphal instars II and III. Also, we include a full diagnosis of the genus *Bonomiella* and an annotated checklist of the six species known to date, with their respective hosts.

Key words: Bonomiella, chewing lice, new species, bird lice, ectoparasites, Argentina, Chile

Introduction

Five species are currently included in the chewing lice genus *Bonomiella* Conci, 1942 (Phthiraptera: Amblycera: Menoponidae), parasitic on species belonging to the columbid genera *Columba* Linnaeus, 1758, *Streptopelia* Bonaparte, 1855, and *Turtur* Boddaert, 1783 (Aves: Columbiformes: Columbidae) (Price *et al.* 2003:93). Pigeon and doves are medium-sized and compact birds with small heads. Food is mainly plant material (grain, seeds, shoots, fresh leaves). The young are fed on "pigeon-milk" from the crop (Svensson, 2009).

Louse samples from two subspecies of *Z. auriculata* available to us belong to a new species which we describe and name in this paper. *Bonomiella zenaidae* **sp. nov.** is so far the only species of this genus known to parasitize one out of six dove species included in the genus *Zenaida* Bonaparte, 1838. Therefore, records made by Emerson (1972) of *B. columbae* Emerson, 1957 on *Z. macroura* (Linnaeus, 1758), Conti & Forrester (1981) on *Z. macroura* and *Z. asiatica* (Linnaeus 1758), and Galloway & Palma (2008) on the latter should be regarded with the same caution as shown by Di Mare (2003), who regarded all *Bonomiella* collected from *Z. asiatica* in Costa Rica as belonging to an unidentified species. Records of *B. columbae* on *Z. auriculata* by Cicchino (1987) and Cicchino & Castro (1998: 102) from Argentina must be referred to the new species described herein; leaving *B. columbae* still unrecorded for this country at the time. Our purpose is to describe the new species *Bonomiella zenaidae* from Argentinean and Chilean adult specimens, as well as the nymphal instars II and III.

Also we (1) include a diagnosis of the genus *Bonomiella*; (2) redescribe *B. columbae* based on Argentinean specimens, giving male and a female diagnostic features; and (3) include an annotated checklist of the species known to date with their respective hosts.

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