

SCIENTIFIC NOTE

NEW RECORD, NEW HOST, AND GEOGRAPHIC DISTRIBUTION OF *BASILIA HUGHSCOTTI* GUIMARÃES, 1946 (DIPTERA: NYCTERIBIIDAE)¹

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Nycteribiidae Samouelle, 1819 (Diptera) which has worldwide distribution, consists of three subfamilies and 11 genera of obligate hematophagous flies that parasitize only bats (Maa, 1989; Graciolli and Carvalho, 2001, Graciolli et al., 2007; Graciolli and Dick, 2008). All nycteribiids spend nearly all their time on bats and can be observed living in the fur of their hosts (Marshall, 1981; ter Hofstede et al., 2004). Of the 11 known genera, nine are restricted to the Old World (Graciolli and Dick, 2008), one occurs only in the New World, and *Basilia* Miranda-Ribeiro, 1903 is cosmopolitan (Dick and Patterson, 2006; Graciolli et al., 2007; Graciolli and Dick, 2008).

Although *Basilia* is distributed worldwide, the largest number of species is in the Eastern Hemisphere (Dick and Patterson, 2006). In addition, there is endemism of the species that occur in the New and Old World. In Brazil, *Basilia* is represented by 24 species that mainly parasitize bats of Vespertilionidae (Graciolli et al., 2007; Graciolli, 2015). The most common hosts are in the genus *Myotis*, but they also parasitize *Eptesicus*, *Histiotus*, and *Lasiurus*, for example. The states of São Paulo (Southeast region), Paraná, and Santa Catarina (Southern region) are those with the highest number of species recorded – the first state with at least 13 species and the last two states with 8 species each (Graciolli et al., 2007; Graciolli, 2015).

When compared to Streblidae (sister-group of Nycteribiidae, also ectoparasites of bats), nycteribiid records are less common and isolated. The Northeast is the region lacking the most knowledge about these insects and very little is known about geographical distribution, hosts or interspecific relationships. Additional knowledge about these parasites can contribute to understanding of the interactions with their hosts, as well as their overall ecological role. In this study, we present the first record of *Basilia hughscotti* Guimarães, 1946 in Northeastern

¹ Received on June 27, 2016. Accepted on October 7, 2016.

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