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Rediscovery and re-description of *Ischnocnema nigriventris* (Lutz, 1925) (Anura: Terrarana: Brachycephalidae)

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Abstract

Besides its brief original description in 1925 and information provided by one specimen collected in the 1980s, nothing else is known for *Ischnocnema nigriventris* (Lutz, 1925). Also, the poor preservation of the type series has hindered the association of this name with any known population of *Ischnocnema*. Fieldwork in Bertioga municipality, state of São Paulo, Brazil, revealed a population of *Ischnocnema* to which we were able to apply the name *Ischnocnema nigriventris*. We report this rediscovery, re-describe the species on the basis of the newly found specimens, and describe its mating call. *Ischnocnema nigriventris* is allocated to the *Ischnocnema lactea* species series and we propose a diagnosis based on a combination of morphological character states. The species is diagnosed by prominent conical tubercles on the upper eyelid, inguinal region and hidden areas of the hind limbs with yellow mottling in males and orange mottling in females, and by its advertisement call composed of two to four non-pulsed notes, the first one differentiated from the others by its lower intensity and different frequency. *Ischnocnema nigriventris* is only known from Parque das Neblinas (Bertioga municipality), Paranapiacaba (Santo André municipality), and Boracéia (Salesópolis municipality), localities in the state of São Paulo, Brazil

Key words: *Ischnocnema*; taxonomy; natural history; advertisement call; Brazilian Atlantic Forest

Introduction

Ischnocnema nigriventris (Lutz, 1925) was briefly described in the original publication and reported to occur in the localities “Serra de Cubatão” (subsequently corrected to Paranapiacaba district in the Santo André municipality, state of São Paulo, Brazil, by Bokermann, 1966) and “Itatiaia” (state of Rio de Janeiro, Brazil). Heyer (1985) designated a lectotype, restricted the type locality to Paranapiacaba, and reported one additional specimen from Boracéia, state of São Paulo. The lectotype was briefly described by Heyer *et al.* (1990). *Ischnocnema nigriventris* was first allocated to the former *Eleutherodactylus lacteus* species group by Lynch (1968), a decision followed in subsequent works (Lynch, 1976; Heyer, 1985; Heyer *et al.* 1990; Hedges *et al.* 2008).

Heinicke *et al.* (2007) resurrected the genus *Ischnocnema* for the former species groups of *Eleutherodactylus* distributed in the Atlantic Forest in Brazil (the *E. guentheri*, *E. lacteus*, *E. parva*, and *E. ramagii* groups). Some modifications in the content of these species series were made in subsequent works (Canedo *et al.* 2010; Canedo and Haddad, 2012). Canedo and Haddad (2012) presented a molecular phylogenetic analysis of the genus *Ischnocnema*. The sample of the species identified as *Ischnocnema* cf. *nigriventris* corresponds to *I. nigriventris* as discussed in the present work, and it was placed by these authors in the *Ischnocnema lactea* species series, as sister taxon of *Ischnocnema vizottoi* + *I. concolor*.

The brief and scarcely informative original description of *Ischnocnema nigriventris*, together with the bad state of conservation of the type specimens, made it difficult to associate this name with any known population of