

NOTES ON GEOGRAPHIC DISTRIBUTION

**Amphibia, Anura, Hylidae, *Dendropsophus microps* (Peters, 1872): Distribution extension in state of São Paulo, Brazil and first record in Cerrado domain**

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*Dendropsophus microps* is a small frog (less than 30 mm SVL) described by Peters (1872), for individuals collected in Nova Friburgo, Rio de Janeiro state, Southeastern Brazil. The species belongs to the *Dendropsophus parviceps* group, which is now composed by 15 species (Faivovich et al. 2005).

According to Silvano et al. (2003) *D. microps* is typically restricted to the Brazilian Atlantic Forest. The known geographic distribution

reaches from the South of the Bahia state (Silvano and Pimenta 2001) to the North of the Rio Grande do Sul state (Kwet and Di-Bernardo 1999). It is also known to occur in the states of Minas Gerais (Haddad et al. 2008), Espírito Santo (Prado and Pombal Jr. 2005), Rio de Janeiro (Santos et al. 1998; Carvalho-e-Silva and Izeckshon 2001), Paraná (Conte and Rossa-Feres 2006, 2007) and Santa Catarina (Deiques et al. 2007; Woehl Jr. and Woehl 2008).



**Figure 1.** *Dendropsophus microps* from Avaré, state of São Paulo, Brazil. Photo by Flávio K. Ubaid.

In the state of São Paulo, specimens of this species were recorded in Campo Grande (Bokermann 1963), *Estação Biológica de Boracéia* (Heyer et al. 1990; Bertoluci and Rodrigues 2002a), *Parque Estadual Intervales* (Bertoluci and Rodrigues 2002b), *Estação Ecológica Juréia-Itatins* (Pombal Jr. and Gordo 2004), *serra de Paranapiacaba* (Pombal Jr. and Haddad 2005), *Estação Ecológica do Bananal* (Zaher et al. 2005), *serra do Japi* (Ribeiro et al. 2005), Cotia (Dixo and Verdade 2006), São José do Barreiro (Serafim et al. 2008), Tapiraí and Piedade (Condez et al. 2009).

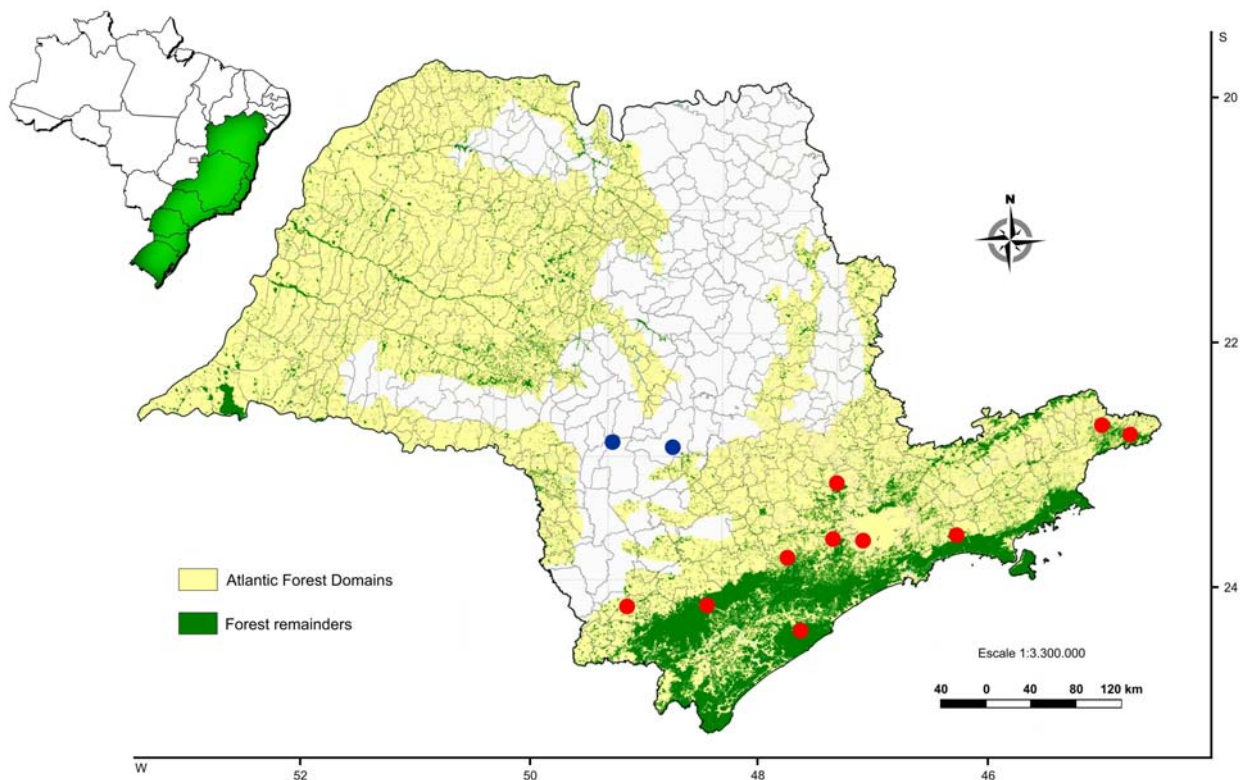
Herein, we present two new localities for *Dendropsophus microps*, broadening its distribution towards the midwestern region of the state of São Paulo.

In field trips conducted between December 2005 and March 2007 in *Recanto Ecológico Sacae Watanabe*, municipality of Botucatu (22°59'34" S, 48°30'04" W; 890 m above sea level), individuals of *D. microps* were observed in a forest fragment, as well as in its borders and in an adjacent open field. The maximum abundance was recorded in December

and January, when 40 males were recorded in calling activity.

On 18 December 2007 in Rincão do Pinhal farm, municipality of Botucatu (22°59'36" S, 48°29'31" W, 824 m above sea level) at 20:00h (air temperature 23° C) one individual of *D. microps* was recorded calling in a temporary pond in a forest fragment, downstream from a great dam.

In 20 January 2009, about 19:00h (air temperature 21.5° C) of a rainy day (14.9 mm precipitation), five individuals of *D. microps* were observed calling (Figure 1) in a rain flooded area of forest. The visual and acoustic records were made near the Palmital river in the Rio Pardo II farm, municipality of Avaré (22°50'13" S, 48°58'33" W, 650 m above sea level). In the same location, one month later, ten individuals were recorded calling in bushes inside the forest. Two individuals were collected (JJ 7853 and JJ 7854) and deposited at the Jorge Jim Scientific Collection, housed at *Departamento de Zoologia, Instituto de Biociências, UNESP - Campus de Botucatu*, São Paulo state, Brazil (License IBAMA/ICMBio - SISBIO 16778-1).



**Figure 2.** Upper left: States with records of *Dendropsophus microps* in Brazil (in green). Center: Records of *Dendropsophus microps* in the state of São Paulo (map based on Fundação SOS Mata Atlântica and INPE 2008). Red dots = previous registers; Blue dots = new registers (Avaré - left, Botucatu - right).

The vegetal formation in these new areas of occurrence for the species is Cerrado (Brazilian savanna) with influence of Seasonal Semideciduous Forest (Fundação SOS Mata Atlântica and INPE 2008). These records are located in a transitional zone between the Cerrado and Atlantic Forest biomes, where different floras are in contact (IBGE 2004). In the municipality of Botucatu, the area is covered by different vegetal formations, including Seasonal Semideciduous Forest and different physiognomies of Cerrado. The Avaré record is in transitional areas of Seasonal Semideciduous Forest with larger influence Cerrado “*sensu lato*”.

All records of *D. microps* in the literature were made in areas of Atlantic Forest, more specifically in areas of moist forests in plateaus or coastal lowlands. The Ribeirão Branco record (Pombal Jr. and Haddad 2005) corresponded to the most interior locality in the state of São Paulo, at a distance of about 130 km from the coast. However, the record presented here for the municipality of Avaré broadens this distance to 260 km, and also presents the first record of *D. microps* outside Atlantic Forest domains in the São Paulo state (Figure 2).

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