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## A new “Bat-Voiced” species of *Dendropsophus* Fitzinger, 1843 (Anura, Hylidae) from the Amazon Basin, Brazil

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### Abstract

We describe *Dendropsophus ozzyi* **sp. nov.**, a new species of treefrog, tentatively included in the *Dendropsophus microcephalus* Group and most notably diagnosed by the presence of pointed fingers and an advertisement call with a very high dominant frequency. The new species is known from three localities in the Brazilian Amazon forest, two on western State of Pará and one (the type locality) in eastern State of Amazonas (03°56'50"S and 58°26'36"W, 45 m a.s.l.).

**Key words:** Advertisement call, Amazonia, Dendropsophini, *Dendropsophus microcephalus* Group, taxonomy

### Introduction

Treefrogs of the genus *Dendropsophus* Fitzinger 1843 form a speciose clade within the subfamily Hylinae (see Faivovich *et al.* 2005), with nearly 100 valid nominal species (Frost 2014). The genus is widespread through Central and South America, occurring in open and forested areas from southern Mexico to central Argentina and Uruguay. The species-level taxonomy within several groups of this genus is rather complicated (e.g., Duellman 1982; Moravec *et al.* 2008) and in many instances renders diagnoses and descriptions of new species a daunting task. However, while some species are quite similar or even nearly indistinguishable from several others (see Jungfer *et al.* 2010), some recently described species can be conspicuously distinct and easily diagnosable (e.g., *D. frosti* Motta *et al.* 2012 and *D. manonegra* Rivera-Correa and Orrico 2013). Therefore, albeit molecular tools have been a great advance in discovering and understanding the biodiversity as a whole (e.g., Bickford *et al.* 2007), in

*leucophyllatus* Group (see Rivera-Correa & Orrico 2013) present diphasic calls (Gomes & Martins 2006). Nevertheless, it seems clear that mono/diphasic calls present heritable, variable information given that other species of *Dendropsophus* (e.g., species from the *D. marmoratus* Group) present monophasic calls (see Orrico *et al.* 2009), as does *Xenohyla* [VGDO pers. obs. and Izecksohn & Carvalho-e-Silva (2001)], the sister taxon of *Dendropsophus* (see Faivovich *et al.* 2005). Therefore, the appearance of diphasic calls is a possible synapomorphy of internal clades of *Dendropsophus*, especially within the *D. microcephalus* Group (as well of possible secondary losses as inferred in Table 2).

The Floresta Nacional de Pau-Rosa (FNPR) is a governmental protected area of about 947,520 hectares located on the southwest portion of the state of Amazonas. Composed entirely of lowland forests, the forest coverage of the locality is—in general—very well preserved. Even with a low and concentrated effort for sampling herpetological species in the area (14 days), focused on just a few sampling sites, two of us (PLVP and MJS) found around 40 species of amphibians in the locality. Most impressive though, is the number of unnamed taxa among those species. With the present description of *Dendropsophus ozyyi* this is the fourth new species described and named from material collected therein (or nearby in Juruti municipality—see *Allobates grillisimilis* Simões *et al.* 2013, *Scinax sateremawe* Sturaro and Peloso 2014, and *Trachycephalus helioi* Nunes *et al.* 2013) and at least two other hylid frog species from that area remain to be named. This only comes to reinforce the notion of our lack of basic knowledge regarding Amazonian biodiversity and the urgent need for additional species inventories, exploratory fieldwork, and revisionary taxonomic work (Peloso 2010).

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#### APPENDIX I. additional material examined for comparisons.

- Dendropsophus acreeanus*. **BRAZIL: Acre: Cruzeiro do Sul:** "Sede do Campus Avançado" (ZUEC 4570–74), "Vila Militar" e "Campus Avançado" (ZUEC 4653), 7° B.E.C. (ZUEC 4665), Vila Militar (ZUEC 4609–11, ZUEC 4692–93, ZUEC 8510–11). Feijó (paratype: MZUSP 74235); **Tarauacá** (holotype: MZUSP 74198; paratypes: MNRJ 3971, MZUSP 73719).
- Dendropsophus anataliasiasi*. **BRAZIL: Goiás: São João da Aliança** (MNRJ 27772–5).
- Dendropsophus anceps*. **BRAZIL: Espírito Santo: Linhares:** Floresta Nacional de Goytacazes (CFBH 25156, CFBH 22999, CFBH 23000, CFBH 23066, CFBH 26549). **Linhares:** Povoação (CFBH 5795–804).
- Dendropsophus araguaya*. **BRAZIL: Mato Grosso: Alto Araguaya:** (paratypes: MNRJ 17240–1).
- Dendropsophus berthaltutzae*. **BRAZIL: Rio de Janeiro: Duque de Caxias:** Parque Natural Municipal de Duque de Caxias (MNRJ 54699–714).
- Dendropsophus bifurcus*. **ECUADOR: Morona: Santiago:** Sevilla Don Bosco (MZUSP 55637). **Napo: Loreto** (MZUSP 116720–4), **Santa Cecilia** (MZUSP 116703–6, MZUSP 116695–6).
- Dendropsophus bipunctatus*. **BRAZIL: Bahia: Aurelino Leal:** Fazenda Pedras Pretas (CFBH 18721–2, CFBH 18734–5). **Espírito Santo: Linhares:** "Fazenda São Bento, Povoação" (CFBH 23081–2).
- Dendropsophus bogerti*. **COLOMBIA: Antioquia: Yarumal:** Santa Rosa (ICN 14275), "Finca Media Luna, Cto El Cedro" (ICN 38278–9).
- Dendropsophus branneri*. **BRAZIL: Bahia: Maracás:** "Fazendas Cana Brava e Santo Onofre" (CFBH 18801–5, CFBH 19312, CFBH 19314–15, CFBH 19319–26, CFBH 19530). **Pernambuco: Bonito:** "Açude do Prata" (CFBH 20825, CFBH 20829, CFBH 20833).
- Dendropsophus cachimbo*. **BRAZIL: Pará: Redenção** (MZUSP 70875–6).
- Dendropsophus carnifex*. **ECUADOR: Imbabura: Apuela** (USNM 234925, USNM 234930, USNM 234932, USNM 234934, USNM 234939, USNM 234942, USNM 234944–6, USNM 234948).
- Dendropsophus columbianus*. **COLOMBIA: Valle del Cauca: La Cumbre:** "Vereda Chicoral, corregimiento Bitaco, cabeceras rio Bitaco, Quebrada Aguas Lindas" (ICN 33334–41).
- Dendropsophus cruzi*. **BRAZIL: Goiás: Silvânia** (paratypes: CFBH 2939–44).
- Dendropsophus decipiens*. **BRAZIL: Rio de Janeiro: Duque de Caxias:** Parque Natural Municipal de Duque de Caxias (MNRJ 50837, MNRJ 54719–35). **Seropédica:** FLONA Mario Xavier (CFBH 25710–14).
- Dendropsophus dutrai*. **BRAZIL: Bahia: Ilhéus:** Universidade Estadual de Santa Cruz (MNRJ 52406). **Sergipe: Estância:**