

# Amphibia, Anura, Hylidae, *Phyllodytes punctatus* Caramaschi and Peixoto, 2004: Distribution extension and first record out of the type locality

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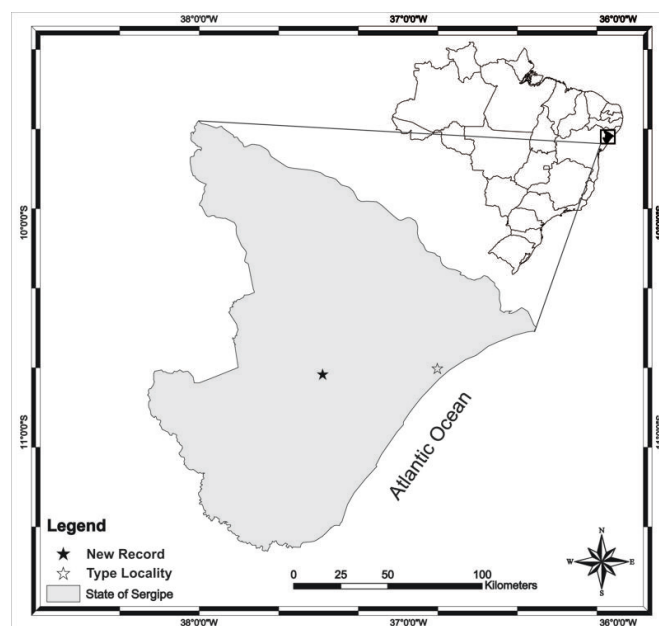
**ABSTRACT:** This article provides a new record of *Phyllodytes punctatus* in Parque Nacional Serra de Itabaiana, municipality of Areia Branca, Sergipe, northeast Brazil. This point is the first record after the description of the species.

The genus *Phyllodytes* consists of small species that have odontoids on the mandible, a feature unique among hylids. Its representatives live in areas of open vegetation and breed in bromeliads with tadpoles developing in rain water accumulated in these plants (Caramaschi *et al.* 1992). The taxon is currently composed of 11 species (*Phyllodytes acuminatus*, *P. brevirostris*, *P. edelmoi*, *P. gyrinaethes*, *P. kautskyi*, *P. luteolus*, *P. maculosus*, *P. melanomystax*, *P. punctatus*, *P. tuberculatus*, and *P. wuchereri*), distributed along the northeast and southeast of Brazil (Frost 2010; SBH 2010).

*Phyllodytes punctatus* (Figure 1) belongs to the *Phyllodytes tuberculatus* group (Faivovich *et al.* 2005), and is characterized as a small species of pale brown color with distinctive brown dots of varying number and distribution along the dorsal surface. Until now, the distribution of this species was restricted to its type locality, at Fazenda Gravatá (10°47' S, 36°54' W), municipality of Santo Amaro das Brotas, state of Sergipe, northeastern Brazil (Caramaschi and Peixoto 2004).



**FIGURE 1.** *Phyllodytes punctatus* (C224), Parque Nacional Serra de Itabaiana, state of Sergipe, Brazil. Photo by F.L.S. Caldas.



**FIGURE 2.** Distribution map of *Phyllodytes punctatus* in the state of Sergipe, Brazil.

We present a new record for *P. punctatus*, based on a specimen (snout-vent length 17.21 mm) collected in Bromeliaceae (*Hohenbergia* sp.), on 16 June 2007, in Parque Nacional Serra de Itabaiana (10°44' S, 37°20' W; 240 m above sea level; Figure 2), extending the geographical distribution of this species ca. 90 km from its type locality. The new location has areas of semi-deciduous forest interspersed with open habitats (Vicente *et al.* 2005) and is a transition zone between the Atlantic Forest and the Caatinga, where species from both biomes coexist (Carvalho and Vilar 2005). In that area, another two *Phyllodytes* species are found: *Phyllodytes* cf. *edelmoi* and *Phyllodytes* cf. *luteolus* (Carvalho *et al.* 2005).

*Phyllodytes punctatus* is listed as data deficient by IUCN, since little is known about its distribution, population status and ecological requirements (Stuart 2006). The

Parque Nacional Serra de Itabaiana is the first protected area where the species is known to occur. However, large gaps remain in the geographical distribution of *Phyllodytes* species, and new records may arise over the course of further studies.

Identification of the collected specimen was based on Caramaschi and Peixoto (2004). The voucher specimen is deposited at the Herpetological Collection of the Universidade Federal de Sergipe, Brazil (C224). Collecting permits were granted by Instituto Chico Mendes de Conservação da Biodiversidade – ICMBio/SISBIO (permit # 10504-1).

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#### LITERATURE CITED

- Caramaschi, U., H.R. Silva and M.C. Britto-Pereira. 1992. A new species of *Phyllodytes* (Anura, Hylidae) from Southern Bahia, Brazil. *Copeia* 1992(1): 187-191.
- Caramaschi, U., and O.L. Peixoto. 2004. A new species of *Phyllodytes* (Anura: Hylidae) from the State of Sergipe, Northeastern Brazil. *Amphibia-Reptilia* 25: 1-7.
- Carvalho, C.M. and J.C. Vilar. 2005. Introdução - Levantamento da biota do Parque Nacional Serra de Itabaiana; p. 9-14 In C.M. Carvalho e J.C. Vilar (ed.). *Parque Nacional Serra de Itabaiana - Levantamento da Biota*. Aracaju: Ibama, Biologia Geral e Experimental – UFS.

- Carvalho, C.M., J.C. Vilar and F.F. Oliveira. 2005. Répteis e anfíbios; p. 39-61 In C.M. Carvalho e J.C. Vilar (ed.). *Parque Nacional Serra de Itabaiana - Levantamento da Biota*. Aracaju: Ibama, Biologia Geral e Experimental – UFS.
- Faivovich, J., C.F.B. Haddad, P.C.A. Garcia, D.R. Frost, J.A. Campbell and W.C. Wheeler. 2005. Systematic review of the frog family Hylidae, with special reference to Hylinae: Phylogenetic analysis and taxonomic revision. *Bulletin of the American Museum of Natural History* 294: 1-240.
- Frost, D. R. 2010. *Amphibian Species of the World: an online reference. Version 5.4*. Electronic Database accessible at <http://research.amnh.org/herpetology/amphibia/index.html>. New York: American Museum of Natural History. Captured on August 2010.
- SBH. 2010. *Brazilian amphibians – List of species*. Electronic Database accessible at <http://www.sbherpetologia.org.br>. Sociedade Brasileira de Herpetologia. Captured on August 2010.
- Stuart, S. 2006. *Phyllodytes punctatus*. In IUCN. *IUCN Red List of Threatened Species. Version 2010.2*. Electronic Database accessible at [www.iucnredlist.org](http://www.iucnredlist.org). Captured on 01 September 2010.
- Vicente, A., A.S. Ribeiro, E.A. Santos and C.R.P. Franco. 2005. Levantamento botânico; p. 15-37 In C.M. Carvalho e J.C. Vilar (ed.). *Parque Nacional Serra de Itabaiana - Levantamento da Biota*. Aracaju: Ibama, Biologia Geral e Experimental – UFS.

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