

# Amphibia, Anura, *Scinax agilis* (Cruz and Peixoto, 1983): Filling gap and new state record

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**ABSTRACT:** We report the presence of *Scinax agilis* (Cruz and Peixoto, 1983) in the municipality of Areia Branca, state of Sergipe, northeastern Brazil for the first time. This record fills the species distributional gap between the states of Bahia and Alagoas.

*Scinax* Wagler, 1830 is the largest genus within Hylinae, for which 102 species are currently assigned (Frost 2012). It is widely distributed from southern Mexico to east-central Argentina and Uruguay. In Brazil the genus is represented by 90 species distributed all over the country (SBH 2012).

*Scinax agilis* (Cruz and Peixoto, 1983) is a species included currently in the *Scinax catharinae* group (Faivovich *et al.* 2005). Its type locality is Ibiriba (19°14' S, 39°55' W, approx. 20 m above sea level), municipality of Linhares, state of Espírito Santo, Brazil. Records by Peixoto *et al.* (2003) and Toledo (2005) extend the known distribution to the states of Bahia and Alagoas, respectively. *Scinax agilis* is frequently found in remnants of the restinga physiognomy in open areas (Cruz and Peixoto 1983; Toledo 2005; Rocha *et al.* 2005; Rocha *et al.* 2008).

On 5 May 2011, 20:00 h, we collected three individuals (two males and one female) of *Scinax agilis*

in the municipality of Areia Branca (10°58'40.5" S, 37°02'54.5" W, 62 m above sea level), state of Sergipe, Brazil. Specimen were collected with permission from the Instituto Brasileiro de Meio Ambiente e Recursos Naturais Renováveis (IBAMA, license 20336-1) and deposited in the Museu de Zoologia "Prof. Adão J. Cardoso" in the Universidade Estadual de Campinas (UNICAMP), São Paulo, Brazil (ZUEC 17842-44; Figure 1). Individuals were found on leaf axils of bromeliads along the shore of a small pond, located inside the Parque Nacional Serra de Itabaiana.

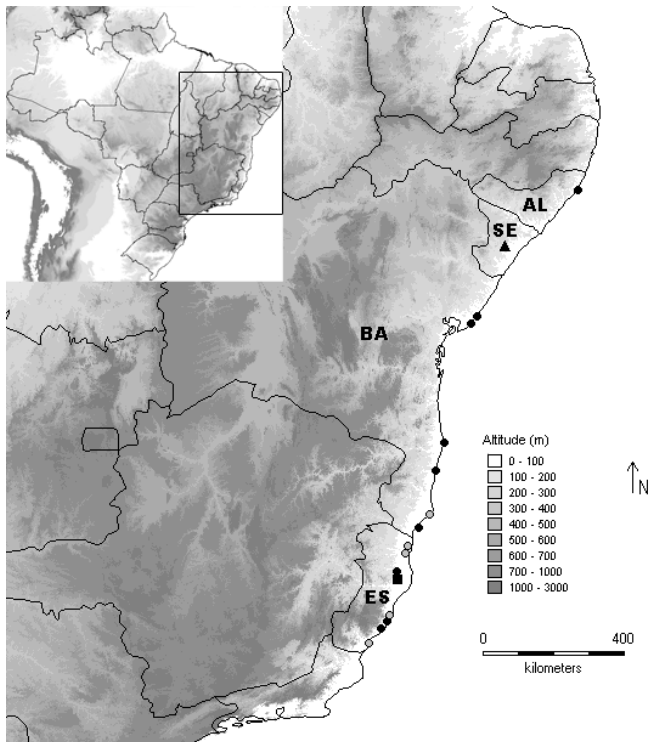
This record fills a gap between the states of Bahia and Alagoas (Figure 2, Table 1). In the same pond the calling activity of *Dendropsophus decipiens* (A. Lutz, 1925), *Dendropsophus haddadi* (Bastos and Pombal, 1996), *Hypsiboas albomarginatus* (Spix, 1824), *Hypsiboas faber* (Wied-Neuwied, 1821) and *Hypsiboas raniceps* (Cope, 1862) was recorded.

**TABLE 1.** Locality, municipality and state with geographic distribution records for *Scinax agilis* in Brazil. Some data were extracted from the specieslink project (<http://slink.cria.org.br/>).

LOCALITY	COORDINATES	VOUCHER	SOURCE
Parque Estadual de Itaúnas, Conceição da Barra – ES	18°59'333" S, 39°73'222" W	CFBH 1938	Specieslink
São Mateus – ES	18°71'61" S, 39°85'89" W	CFBH 1567	Specieslink
Itapemirim – ES	21°01'111" S, 40°83'388" W	MBML 4887	Specieslink
Vitória – ES	20°31'944" S, 40°33'777" W	MBML 4903	Specieslink
Linhares – ES	19°35'520" S, 40°06'164" W		Cruz and Peixoto (1983)
Reserva Florestal Vale do Rio Doce, Linhares – ES	19°40'880" S, 40°09'23" W		Peixoto and Gomes (2007)
Vila Velha – ES.	20°26'992" S, 40°34'179" W		Peixoto and Gomes (2007)
Restinga de Setiba, Guarapari – ES	20°66'666" S, 40°49'75" W		Pombal <i>et al.</i> (2010)
Caravelas – BA	17°73'19" S, 39°26'58" W	CFBH 4063	Specieslink
Belmonte – BA	15°84'774" S, 38°89'774" W		Pombal <i>et al.</i> (2010)
Trancoso – BA	16°58'338" S, 39°09'330" W		Rocha <i>et al.</i> (2003; 2008)
Camaçari – BA	12°67'383" S, 38°33'267" W		Nunes <i>et al.</i> (2007).
Mucuri – BA	18°04'533" S, 39°55'352" W		Peixoto <i>et al.</i> (2003)
Praia do Forte, Mata de São João, Reserva Sapiranga – BA	12°56'813" S, 38°01'398" W		Juncá (2006)
Praia do Forte, Fazenda Camurugiipe, Mata de São João – BA	12°57'860" S, 38°03'526" W		Juncá (2006)
Passo do Camarajibe – AL	09°18'52" S, 47°26'20" W		Toledo (2005)
Areia Branca – SE	10°58'405" S, 37°02'545" W	ZUEC 17842-44	This work



**FIGURE 1.** Adult male of *Scinax agilis* collected in the municipality of Areia Branca, state of Sergipe, Brazil (ZUEC 17842) (Photo: Luís Felipe Toledo).



**FIGURE 2.** Geographic distribution of *Scinax agilis*, indicating the new site in the municipality of Areia Branca, state of Sergipe (black triangle). Black square corresponds to type locality, black circles correspond to localities referred in previous articles, and gray circles indicate localities available in the Specieslink database (<http://splink.cria.org.br/>) (see raw data in table I).

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#### LITERATURE CITED

- Cruz, C.A.G. and O.L. Peixoto. 1983 "1982". Uma nova espécie de *Hyla* do estado do Espírito Santo, Brasil (Amphibia, Anura, Hylidae). *Revista Brasileira de Biologia* 42: 721-724.
- Faivovich, J., C.F.B. Haddad, P.C.A. Garcia, D.R. Frost, J.A. Campbell and W.C. Wheeler. 2005. A systematic review of the frog family Hylidae, with special reference to the Hylinae, a phylogenetic analysis and taxonomic revision. *Buletim of the American Museum of Natural History* 294: 1-240.
- Frost, D.R. 2012. *Amphibian Species of the World: an Online Reference. Version 5.5.* Electronic Database accessible at: <http://research.amnh.org/vz/herpetology/amphibia/>. American Museum of Natural History. Captured on 22 June 2012.
- Juncá, F.A. 2006. Anuran diversity and habitat use in two localities of Atlantic forest in north of Bahia state. *Biota neotropica* 6 (2): 1- 17
- Nunes, I., R.S. Santiago and F.A. Junca. 2007. Advertiment calls of four hylid frogs from the State of Bahia, northeastern Brazil. *South American Journal of Herpetology* 2: 89-96.
- Peixoto, O.L., M.R. Gomes and S.P.D. Carvalho-e-Silva. 2003. Geographic distribution: *Scinax agilis*. *Herpetological Review* 34: 163.
- Peixoto, O.L. and M.R. Gomes. 2007. Catalogue of anuran types in the Eugenio Izecksohn Herpetological Collection (Amphibia, Anura). *Revista Brasileira de Zoologia* 24: 721-728.
- Pombal Jr. J.P., R.R. Carvalho Jr, M.A.S. Canelas and R.P. Bastos. 2010. A new *Scinax* of the *S. catharinae* species group from Central Brazil (Amphibia, Anura: Hylidae). *Zoologia* 27 (5): 795-802.
- Rocha, C.F.D., H.G. Bergallo, M.A.S. Alves and M. Van Sluys. 2003. *A biodiversidade nos grandes remanescentes florestais do Estado do Rio de Janeiro e nas restingas da Mata Atlântica.* São Carlos: Rima Editora, 134 p.
- Rocha, C.F.D., M. Van Sluys, H.G. Bergallo and M.A.S. Alves. 2005. Endemic and threatened tetrapods in the restingas of the biodiversity corridors of Serra do Mar and of the central Mata Atlântica in Eastern Brazil. *Brazilian Journal Biology* 65 (1): 159-168.
- Rocha, C.F.D., F.H. Hatano, D. Vrcibradic and M. Van Sluys. 2008. Frog species richness, composition and Beta-diversity in coastal Brazilian Restinga habitats. *Brazilian Journal Biology* 68 (1): 101-107.
- Segalla, M.V., U. Caramaschi, C.A.G. Cruz, P.C.A. Garcia, T. Grant, C.F.B. Haddad and J.A. Langone. 2012. *Brazilian Amphibians - List of Species.* Accessible at <http://www.sberpetologia.org.br>. Sociedade Brasileira de Herpetologia. Captured on 22 June 2012.
- Specieslink 2012. Eletronic Database accessible at <http://splink.cria.org.br/>. Captured on 19 October 2011
- Toledo, L.F. 2005. Geographic distribution: *Scinax agilis*. *Herpetological Review* 36(1): 77.

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