

NOTES ON GEOGRAPHIC DISTRIBUTION

Amphibia, Anura, Hylidae, *Scinax fuscomarginatus*: Distribution extension

João Manoel A. Leite Jr ¹
Johnny M. S. Sampaio ²
Roberta Rocha Silva-Leite ¹
Luís Felipe Toledo ³
Daniel Loebmann ⁴
José Roberto S. A. Leite ¹

¹ Campus Ministro Reis Velloso, Universidade Federal do Piauí.
CEP. 64202-020. Parnaíba, PI, Brazil. E-mail: jrleite@ufpi.br

² Universidade Estadual do Piauí, Campus Professor Alexandre Alves de Oliveira.
Avenida Na. Senhora de Fátima, s/n. CEP.64202-220. Parnaíba, PI, Brazil.

³ Universidade Estadual de Campinas, Museu de Zoologia "Prof. Dr. Adão José Cardoso".
Caixa Postal 6109. CEP 13083-863. Campinas, SP, Brazil,

⁴ Laboratório de Herpetologia, Instituto de Biociências, Universidade Estadual Paulista,
Av. 24 A, 1515. CEP 13506-900. Rio Claro, SP, Brazil.

The treefrog genus *Scinax* currently comprises 73 species occurring in Brazil. *Scinax fuscomarginatus* is a small species in the *Scinax ruber* clade (Faivovich 2002; Faivovich et al. 2005), with about 20 mm of snout-vent length (Figure 1). Treefrogs of the *S. ruber* clade occur from Mexico to Argentina and may have originated in South America (Léon 1969). *Scinax fuscomarginatus* is typical from open areas such as those of Pantanal and Cerrado (Brasileiro

et al. 2005; Toledo and Haddad 2005a; b), occurring in the central portion of Brazil (Haddad et al. 2008) and also in eastern Bolivia, Paraguay, and Argentina (Frost 2007). In spite of this wide distribution, its geographic range is still unclear, and some populations can be found in open areas of unexpected biomes, such as the Atlantic Forest (Freitas and Silva 2007). Furthermore, the austral boundaries of its distribution remain unclear.



Figure 1. (A) Adult male of *Scinax fuscomarginatus* collected in the municipality of Viçosa do Ceará, state of Ceará, Brazil (CFBH 19386) (Photo: Daniel Loebmann). (B) Temporary ponds (arrows) where the species was found in the Ilha das Canárias, Delta do Parnaíba, state of Maranhão, Brazil (Photo: Palê Zuppani).

NOTES ON GEOGRAPHIC DISTRIBUTION

We registered *S. fuscomarginatus* for six localities in northeastern Brazil: state of Alagoas, municipality of Passo de Camarajibe (09°17' S, 35°23' W; specimens deposited in the Célio F. B. Haddad amphibian collection, housed at the *Departamento de Zoologia, Universidade Estadual Paulista, Rio Claro - SP, CFBH 7324; 7327-28; 7349-52; 7402-05*); state of Maranhão, Ilha das Canárias, municipality of Araiões (02°47' S, 41°52' W; specimens deposited in the *Coleção Herpetológica Delta do Parnaíba, Universidade Federal do Piauí, Parnaíba - PI, CHDP 0027; 0094*), municipality of Alcântara (02°15' S, 44°25' W), and municipality of Timbiras (04°15' S, 43°56' W; specimens deposited in the *Coleção Herpetológica Delta do Parnaíba, CHDP 0097*); state of Piauí, Ilha Grande de Santa Isabel, municipalities of Ilha Grande do Piauí and Parnaíba (02°51' S, 41°49' W) (Figure 2); state of Ceará, municipality of Viçosa do Ceará (03°24' S, 41°07' W) (CFBH 19386). All individuals were identified by advertisement calls and external morphology.

These are the first records of *S. fuscomarginatus* for the coastal islands and for the state of Piauí and also for the state of Ceará. These new records extend the distribution of *S. fuscomarginatus* in about 760 km northeastern from the municipality of Ribamar Fiquene, state of Maranhão (05°55' S, 47°22' W) (Brasileiro et al. 2008). These findings in transitional environments and in estuaries, as the region of Parnaíba's Delta and in the state of Alagoas, indicate that the species is not restricted to the Cerrado and Pantanal environments, as formerly stated by Colli et al. (2002).

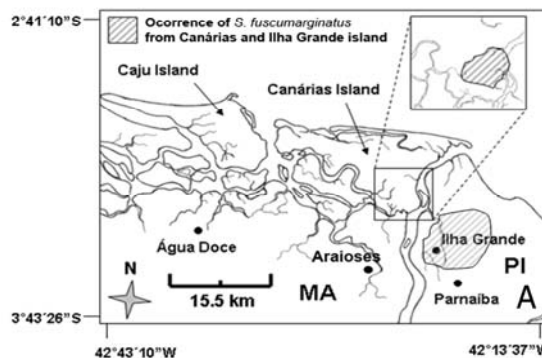
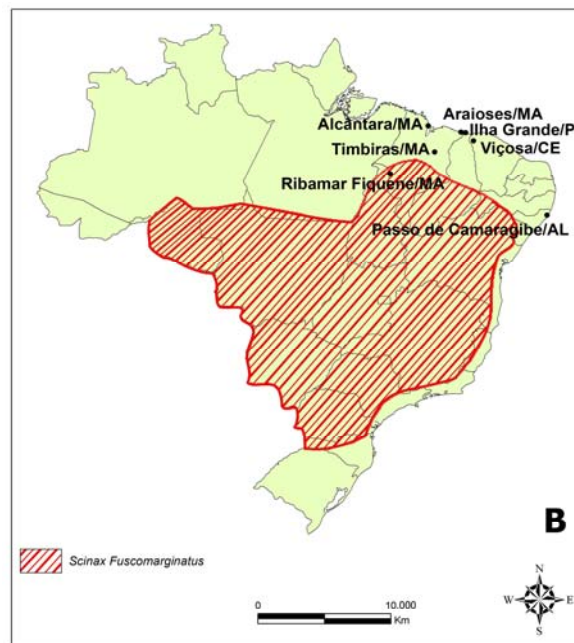


Figure 2. (A) Geographic distribution of *Scinax fuscomarginatus*; dots indicate new records for the species. (B) Geographic distribution of *S. fuscomarginatus* on the islands of the Parnaíba's Delta.

Acknowledgements

The authors are grateful to Pedro da Costa e Silva for help in field expeditions, Etielle Barroso de Andrade for line drawings of *Delta do Parnaíba*, and Wennys Dean Sousa da Silva for the distribution map. *Instituto Brasileiro do Meio Ambiente e dos Recursos Naturais Renováveis* (IBAMA – Parnaíba) for the logistical support. *Instituto Ilha do Caju Ecodesenvolvimento e Pesquisa* (ICEP) for logistical support; *Universidade Federal do Piauí* (UFPI) partially funded the work. LFT acknowledges FAPESP (proc. n. 2008/52847-9 and proc. n. 2008/50325-5) for financial support.

Literature cited

Brasileiro, C. A., E. M. Lucas, H. M. Oyamaguchi, M. T. C. Thomé, and M. Dixo. 2008. Anurans, Northern

Tocantins River Basin, states of Tocantins and Maranhão, Brazil. *Check List* 4(2): 185-197.

NOTES ON GEOGRAPHIC DISTRIBUTION

- Brasileiro, C. A., R. J., Sawaya, M. C., Kiefer, and M. Martins. 2005. Amphibians of an open cerrado fragment in Southeastern Brazil. *Biota Neotropica* 5:2.
- Colli, G. R., R. P. Bastos, and A. F. B. Araújo. 2002. The character and dynamics of the Cerrado herpetofauna; p. 223-241 *In*: P. S. Oliveira and R. J. Marquis (ed.). *The Cerrados of Brazil: Ecology and Natural History of a Neotropical Savanna*. New York. Columbia University Press.
- Faivovich, J. 2002. A cladistic analysis of *Scinax* (Anura: Hylidae). *Cladistics* 18: 367-393.
- 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.
- Freitas, M. A. and T. F. S. Silva. 2007. A Herpetofauna das Caatingas e áreas de altitude do Nordeste Brasileiro. Pelotas. União Sul-Americana de estudos da Biodiversidade. 388 p.
- Frost, D. R. 2007. Amphibian Species of the World: an online reference. Version 5.1. Electronic Database accessible at <http://research.amnh.org/herpetology/amphibia/index.html>. American Museum of Natural History, New York, USA. Captured on 25 April 2008.
- Haddad, C. F. B., L. F. Toledo, and C. P. A. Prado. 2008. Anfíbios da Mata Atlântica: guia dos anfíbios anuros da Mata Atlântica. São Paulo. Editora Neotropica. 244 p.
- Léon, J. R. 1969. The systematic of the frogs of the *Hyla rubra* group in Middle America. *Museum of Natural History* 18:505–545.
- Toledo, L. F. and C. F. B. Haddad. 2005a. Acoustic repertoire and calling site of *Scinax fuscomarginatus* (Anura, Hylidae). *Journal of Herpetology* 39(3):455-464.
- Toledo, L. F. and C. F. B. Haddad. 2005b. Reproductive biology of *Scinax fuscomarginatus* (Anura, Hylidae) in south-eastern Brazil. *Journal of Natural History* 39(32):3029-3037.

Received June 2008

Accepted November 2008

Published online December 2008