Amphibia, Anura, Hylidae, *Scinax centralis* Pombal and Bastos, 1996: Distribution extension, geographic distribution map

Mário Ribeiro de Moura ¹, Vitor Dias Fernandes ¹, Diego José Santana ² and Renato Neves Feio ¹

¹ Universidade Federal de Viçosa, Departamento de Biologia Animal, Museu de Zoologia João Moojen. Vila Gianetti 32. CEP 36570-000. Viçosa, MG, Brazil.
² Universidade Federal da Paraíba, Centro de Ciências Exatas e da Natureza, Campus I, Departamento de Sistemática e Ecologia. Cidade Universitária Castelo Branco. CEP 58000-000. João Pessoa, PB, Brazil

* Corresponding author. E-mail: mariormoura@gmail.com

**Abstract:** This work provides records of *Scinax centralis* from municipalities of Campo Alegre de Goiás and Orizona, state of Goiás, Brazil. Those records represent, respectively, a southeast range extension of ca. 30 Km east and ca. 60 Km southeast from the previously known locality of Ipameri. All known populations of *S. centralis* remain restricted to the Paranaíba River basin, and with exception of Orizona, all localities from where the species is known to occur are inside priority areas for conservation of biodiversity in Cerrado and Pantanal.

*Scinax centralis* Pombal and Bastos, 1996 is a small hylid frog belonging to the *Scinax catharinae* clade (*sensu* Faivovich *et al.* 2005). This species is endemic of Cerrado biome (Bastos 2007), known from three localities in central Brazil, in municipalities of Silvânia (16°39' S, 48°36' W) and Ipameri (17°43' S, 48°09' W), state of Goiás (Pombal and Bastos 1996), and municipality of Brasília, Distrito Federal (16°05' S, 47°50’ W) (Brandão and Araújo 2002).

Herein we report new records of this species for southeastern of state of Goiás. All specimens collected were housed at the herpetological collection of Museu de Zoologia João Moojen, Universidade Federal de Viçosa, municipality of Viçosa, state of Minas Gerais (MZUFV).

In October 2005, during a field expedition to the southeastern state of Goiás (GO), seven specimens of *Scinax centralis* were collected by RNF in municipalities of Campo Alegre de Goiás (MZUFV 6472-6473 [♀], MZUFV 6474 [♂], MZUFV 6479 [♂]) and Orizona (MZUFV 6509-6510 [♂], MZUFV 6511 [♀]) (Figure 1 and 2). In Campo Alegre de Goiás, specimens were collected in two localities on the right bank of the Mariquita stream (17°41'53" S, 47°53'52" W). In Orizona, specimens were collected near the village of Buritizinho, in isolated temporary ponds resulting from decreased flow of a stream called Córrego do Fogo (16°57'36" S, 48°02'57" W).

*Scinax centralis* is distinguished from other closely related species by its small size (SVL 17.8-21.2 mm). This species is also characterized by the presence of developed inguinal glands, snout slightly protruding in lateral view and the presence of a triangular interocular blotch (Pombal and Bastos 1996). Adult females of *Scinax centralis* (Figure 2) present the same characteristics of males related in the description (Pombal and Bastos, 1996). Females also have inguinal glands and the same patterns of dorsal coloration, and tend to be larger than males (Table 1). Besides the sexual dimorphism reported by Alcantara *et al.* (2007), two of our four males were larger in SVL than those reported in the original description (larger reported male had 21.2 mm) and also those reported by Alcantara *et al.* (2007) (males SVL reached 17.05-23.45 mm).

**Figure 1.** Dorsal (A) and ventral (B) view of an adult male *Scinax centralis* (MZUFV 6509, 22.05 mm snout-vent length) from Campo Alegre de Goiás, state of Goiás, Brazil.
The records of *Scinax centralis* from Campo Alegre de Goiás and Orizona represent, respectively, a range extension of ca. 30 Km east and ca. 60 Km southeast from Ipameri.

(Figure 3). All known populations of *S. centralis* remain restricted to the Paranaíba River Basin. It is important to note that four of the five localities from where *S. centralis* was reported are located in priority areas for conservation of biodiversity in Cerrado and Pantanal (MMA, 2007), including the new record from the municipality of Campo Alegre de Goiás, located in the priority area of Alto Paraná region (Figure 3).

The *Scinax catharinae* species group is more diversified in the Atlantic Forest. Species that inhabit the Cerrado domain (e.g. *S. centralis*, *S. canastrensis* and *S. machadoi*) (Bastos 2007) occupy habitats (gallery forests) similar to the Atlantic Forest species (Faivovich et al. 2002). Bastos et al. (2003) and Pombal and Bastos (1996) related that the reproduction sites of this species are streams in riparian forest or ponds with constant change of water in open area at the border of riparian forest. Additionally, Alcantara et al. (2007) reported a patch of rivulet with insignificant water flow (considered by these authors as a permanent lentic water body) as reproduction sites. The observation of individuals of *S. centralis* in activity in a small temporary pond resulting from decreased flow of Córrego do Fogo is consistent with what was reported by Alcantara et al. (2007), suggesting that *S. centralis* may use other sites without constant change of water for reproduction.

**Acknowledgments:** We thank the anonymous referee for valuable comments on the manuscript. Carla Santana Cassini and José Lelis Pontes for help during fieldwork. Rogério Pereira Bastos for identification of the specimens.

**Literature Cited**
Cladistics 18: 367-393.


Receive: September 2009
Revised: October 2009
Accepted: January 2010
Published online: March 2010
Editorial responsibility: Marcelo N. de C. Kokubum