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NOTES ON GEOGRAPHIC DISTRIBUTION

Reptilia, Squamata, Serpentes, Viperidae, *Bothrops lutzi*: distribution extension, geographic distribution map

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The family Viperidae comprises 28 species in Brazilian territory, with 23 of them belonging to the genus *Bothrops* Wagler, 1824 (Bérnils 2009). The *Bothrops neuwiedi* complex presents an ambiguous taxonomic status and seven species *Bothrops diporus* Cope, 1862, *B. lutzi* (Miranda-Ribeiro, 1915), *B. marmoratus* Silva and Rodrigues, 2008, *B. mattogrossensis* Amaral, 1925, *B. neuwiedi* Wagler, 1824, *B. pauloensis* Amaral, 1925, and *B. pubescens* (Cope, 1870) have been formerly recognized so far (Silva 2004; Silva and Rodrigues 2008).

The distribution of *B. lutzi* is known to central eastern Brazil, which includes Minas Gerais, Bahia, Goiás, Tocantins, Piauí, and Ceará states (Lira-da-Silva et al. 2003; Silva 2004; Borges-Nojosa and Cascon 2005; Freitas and Silva 2007). Here, it is presented a new record for *B. lutzi* extending its geographic distribution northward in relation to the previous reported. Also, an updated distribution map is proposed for the species.

From February 2007 to November 2007, I found 5 specimens (four females, one male) of *B. lutzi* (Figure 1) in the Chapada da Ibiapaba (Plateau of Ibiapaba) between Ubajara and Tianguá municipalities (03°53'29.4" S, 41°04'30.7" O; 796 m above sea level). The Ibiapaba's plateau is a rocky arenitic formation in the frontier of Piauí and Ceará states, belonging

to the *Caatinga* Biome (*sensu* Ab'Saber, 1977). The physiognomy where the specimens were found is classified as Dry Dense Bush Forest, locally known as *Carrasco*, and can be basically characterized as a Forest zone with medium sized trees, up to 4 meters high, where the loss of leaves is higher than 70% during the dry season (June-December). The snout-vent length of the individuals varied from 34 to 72 cm.

A voucher specimen was deposited in the herpetological collection of the *Universidade Federal da Paraíba* (UFPB 4506). Collecting permits were granted by *Instituto Brasileiro do Meio Ambiente e dos Recursos Naturais Renováveis* - IBAMA (# 267/2006).

This finding is the first record for the species in the Ibiapaba's plateau, extending the species' range in ca. 140 km north, in a straight line from the previous report at Brejo Santo municipality, in Southern Ceará (Figure 2; Borges-Nojosa and Cascon 2005). Considering that in Ceará this species is registered only in dry forests located in high altitudes (700 m above sea level) in the border with state of Piauí, it is likely that Ibiapaba's plateau represents the northern limit in the distribution of *B. lutzi* in Brazilian's territory. Therefore, the current distribution knowledge for *B. lutzi* should be considered as presented in Figure 2.

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Figure 1. Specimens of *Bothrops lutzi* found in the present study with their main color patterns and some diagnostics characters. A-C) General view of adult females with snout-vent length of 72.0, 45.2, and 59.0 cm respectively; D) Head detail; E) Ventral color pattern of a juvenile female (SVL = 34 cm); and F) Hemipenis of an adult male SVL = 52.8 cm).

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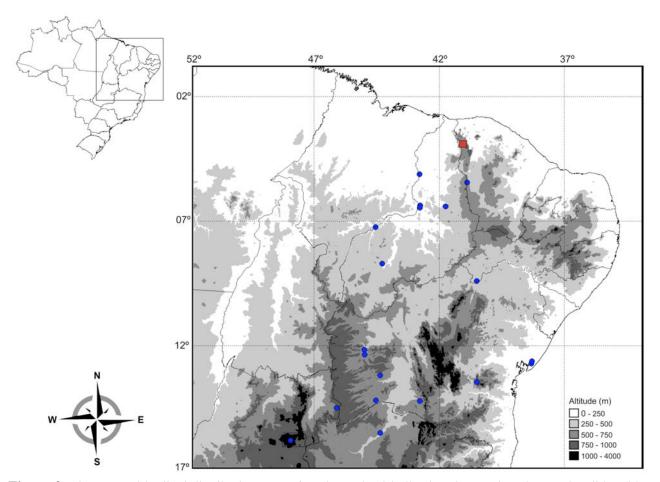


Figure 2. Figure 2. Altitudinal distribution map of Bothrops lutzi indicating the previous known localities (blue circles) and the present record (red square).

Literature cited

Ab'Saber, A. N. 1977. Os Domínios Morfoclimáticos na América do Sul. Primeira aproximação. Geomorfologia 52: 1-159.

Bérnils, R. S. 2009. Brazilian reptiles - List of species. Electronic Database accessible at http://www.sbherpetologia.org.br. Brazilian Society of Herpetology, Brazil. Captured on May 2009.

Borges-Nojosa, D. M. and P. Cascon. 2005. Herpetofauna da Área Reserva da Serra das Almas, Ceará; p. 243-258 *In*: F. S. Araújo, M. J. N. Rodal, and M. R. V. Barbosa (ed.), Análise das Variações da Biodiversidade do Bioma Caatinga. Brasília, Ministério do Meio Ambiente.

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.

Lira-da-Silva, R. M., Y. F. Mise, G. Puorto, and V. X. Silva. 2003. Geographic distribution. *Bothrops neuwiedi lutzi* (Neuwiedi's Lancehead): Bahia. Herpetological Review 34(4): 386.

Silva, V. X. 2004. The *Bothrops neuwiedi* complex; p. 410-422 *In*: J. A. Campbell and W. W. Lamar (ed.), The Venomous Reptiles of the Western Hemisphere. Ithaca. Cornell University Press.

Silva, V. X. and M. T. Rodrigues. 2008. Taxonomic revision of the *Bothrops neuwiedi* complex (Serpentes, Viperidae) with description of a new species. Phyllomedusa 7(1): 45-90.

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