

# *Dipsas sazimai* Fernandes, Marques & Argolo, 2010 (Squamata: Dipsadidae): Distribution extension and new State record

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**ABSTRACT:** We provide the first record of *Dipsas sazimai* for the state of Pernambuco, at RPPN Pedra D'Antas, municipality of Jaqueira, extending the known distribution in 73 km north from the closest locality, municipality of Murici, state of Alagoas. The discovery of a new population of this rare snake reinforces the need of conservation of the reminiscent Atlantic forest of the Pernambuco Endemism Center.

The Atlantic Forest north to the São Francisco River presents two biogeographic units: the low land forests in the coastal zone and the highland marshes ("Brejos de Altitude") (Tabarelli *et al.* 2005). The Pernambuco Endemism Center is one of the biogeographical sub-units of this region (*sensu* Silva and Casteleti 2003). Despite its high biodiversity, only 2% of the original pristine forest remains, and the small forest fragments are considered as key target for biological conservation (Asfora and Pontes 2009; Ribeiro *et al.* 2009).

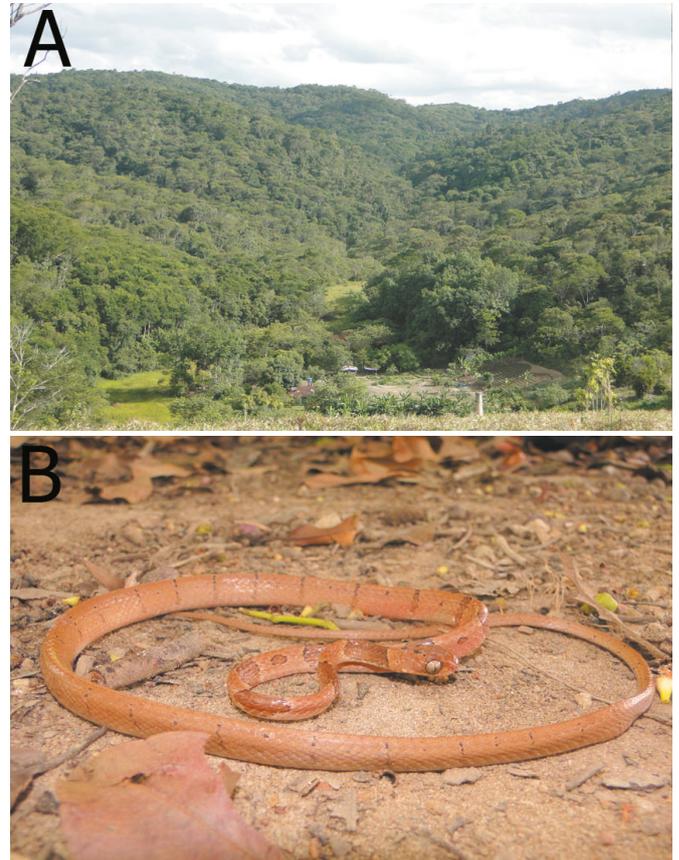
The snake *Dipsas sazimai* is characterized by the presence of rounded dorsal blotches wider than interblotches; posterior body blotches lighter than anterior blotches, with conspicuous white edge in paraventral region; tiny and vertically oriented streaks in the interblotches from the posterior half of the body, 187-209 ventral scales; 107-129 caudal scales (Fernandes *et al.* 2010). This species is endemic to the Atlantic Forest in Brazil, occurring in the states of Rio de Janeiro, São Paulo, Espírito Santo, Bahia and Alagoas, from elevations of 0 to 700m (Fernandes *et al.* 2010).

During a herpetofauna monitoring project in the Atlantic Forest of the Pernambuco Endemism Center, at the Private Protected Area of RPPN Pedra D'Antas (Figure 1A), municipality of Jaqueira, Serra do Urubu mountain, Pernambuco State (08°42'29.6" S, 35°51'15.8" W, 702 a.s.l.m), Brazil, we collected an adult individual of *Dipsas sazimai* (SVL 38.6 cm, TL 18.2cm), housed in the herpetological collection of Universidade Regional do Cariri (URCA-H 5097) (Figure 1B), coiled in a branch at 1.40 m of height, on March 12 of 2013, 20:23 h (permits: 34734-1).

This is the first record of *D. sazimai* for the Pernambuco State (Figure 2), and the second record for the Pernambuco Endemism Center, extending the known distribution 73 km north from the closest locality, the municipality of Murici, state of Alagoas (Fernandes *et al.* 2010).

Despite our specimen fits with the diagnostic characters described in Fernandes *et al.* (2010), there is a huge variation in color pattern in live. The live specimen

in the original description (IBSP 77835) have a creamy ground color with black blotches and dark brown iris, whereas our specimen have a reddish brown ground color with dark brown blotches and silver iris (Figure 1B). The specimen depicted in Hamdan and Lira-da-Silva (2012) also has a reddish brown ground color, but have a dark brown iris. Morphological analysis of additional specimens

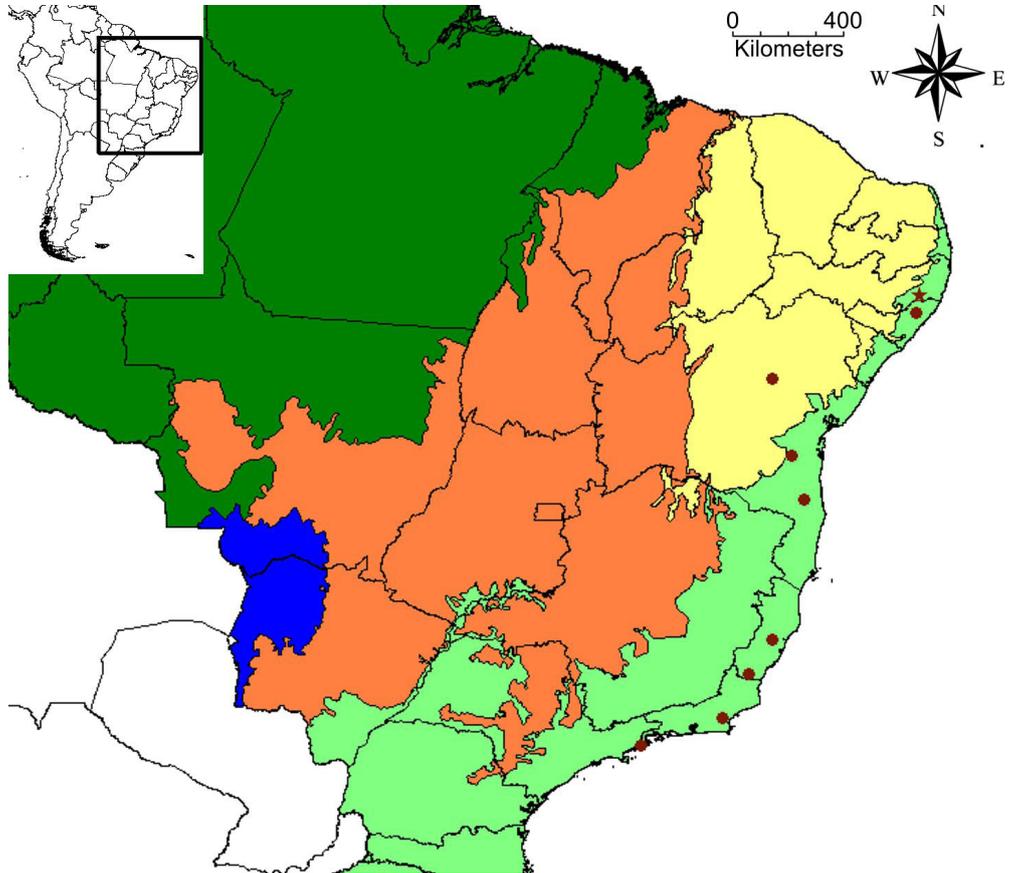


**FIGURE 3.** A) View of the RPPN Pedra D'Antas, municipalities of Lagoa dos Gatos and Jaqueira, State of Pernambuco, Brazil. B) Adult individual of *Dipsas sazimai* (URCA H-5097), from the municipality of Jaqueira, state of Pernambuco, Brazil. Photos by Igor J. Roberto

and molecular data could help in identify whether these populations are different or represent clinal variation.

*Dipsas sazimai* is the rarest species within the *Dipsas* genus in the Atlantic Forest domain and considered potentially threatened (Fernandes *et al.* 2010). The discovery of this new population of *D. sazimai* highlights the conservation importance of the Serra do Urubu

mountain range. Conservation actions in the Atlantic Forest, north to the São Francisco River, such as the creation of a Biodiversity corridor and/or measures to reconnect and restore the forest remnants are badly needed to allow recolonization and reestablishment of the gene flow among animal populations (Asfora and Pontes 2009).



**FIGURE 2.** Geographic distribution map of *Dipsas sazimai* in Brazil. Red points are those from Fernandes *et al.* (2010) and the star represents the new record.

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