

First record of *Colobosaura modesta* (Reinhardt and Lütken, 1862) (Squamata: Gymnophthalmidae) to the Cariri region, state of Ceará, Brazil, with a map of its geographical distribution

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ABSTRACT: We provide a new record of *Colobosaura modesta* for the state of Ceará and a distribution map for the species. The record for the municipality of Crato represents a distribution extension of ca. 270 km southeastern from the municipality of Crateús, Ceará, the closest known record.

Gymnophthalmid lizards have small to medium body sized (snout-vent length around 40 to 150 mm) and are distributed from southern Mexico to Argentina, on some continental shelf islands of Central and South America - east of the Andes (Pellegrino *et al.* 2001; Vitt and Caldwell 2009). *Colobosaura modesta* (Figure 1) was described by Reinhardt and Lütken (1862), from the municipality of Morro da Garça, state of Minas Gerais, Brazil.

For a long time this species was recognized as endemic to the Cerrado biome (Vanzolini and Ramos 1977). However, new records were subsequently reported in the Amazon, in eastern state of Pará (Avila-Pires *et al.* 2009; Nogueira *et al.* 2005). Based on available literature, the current distribution of *Colobosaura modesta* includes records for the states of Bahia, Ceará, Distrito Federal, Goiás, Maranhão, Mato Grosso, Mato Grosso do Sul, Minas Gerais, Pará, São Paulo, and Tocantins (Figure 2) (Nogueira *et al.* 2005; Recoder and Nogueira 2007; Recoder *et al.* 2011; Benozzati and Rodrigues 2003; Silva-Junior *et al.* 2009; Vanzolini and Ramos, 1977; Avila-Pires 1995; Uetanabaro *et al.* 2007; Valdujo *et al.* 2009; Vaz-Silva *et al.* 2007; Cintra *et al.* 2009; Araujo and Almeida-Santos 2011; Rodrigues *et al.* 2005; Pavan and Dixon 2004; Mesquita *et al.* 2005; Hernández-Ruz *et al.* 2008; Costa *et al.* 2010; Curcio *et al.* 2011; Santo *et al.* 2011; Couto-Ferreira *et al.* 2011).

Only Recently, *Colobosaura modesta* was recorded in the state of Ceará, in Reserva Particular do Patrimônio Natural (RPPN) Serra das Almas, which is located in the municipality of Crateús and subsequently in the municipalities of São Luís and Ubajara, where the latter is located in the enclave of Atlantic Forest in the northern part of the Planalto de Ibiapaba (Borges-Norjosa and

Caramaschi, 2003; Borges-Norjosa and Cascon 2005). Herein, we report a new distribution record of *C. modesta* to the Cariri region, in the state of Ceará.

From 1-5 August 2011, during a herpetological survey from the Program for Biodiversity Research - PPBio/CNPq, we collected two specimens of *Colobosaura modesta* (Figure 1) in Chapada do Araripe (National Forest of the Araripe), municipality of Crato (07°25.444'S, 39°17.659' W; 768 m asl). Our new finding of *C. modesta* extend the distribution of this species ca. 270 km southeastern from the municipality of Crateús in the state of Ceará. Specimens are deposited in the Coleção Herpetológica do departamento de Botânica, Ecologia e Zoologia da UFRN (CHBEZ 3758, 3759, Verified by: M. T. Rodrigues. Collection permit numbers: 27143-1. Authentication code: 91465384, Issuing agency: ICMbio, SISBIO, 2011).

The Chapada do Araripe Mountain Range occupies parts of three states (Ceará, Piauí, and Pernambuco) in northeastern Brazil. In Ceará the Chapada is located in the southern meridian region (07°25' S, 39°17' W). This region is dominated by formations of the Cretaceous age (Araripe group) (Campelo *et al.* 2000), having altitudes varying from 850-900 m. A number of different vegetation physiognomies are found there, including: Sub-perennial Tropical Pluvio-Nebular Forest (Humid Forest), Sub-deciduous Tropical Pluvial Forest (Dry Forest), Sub-deciduous Tropical Xeromorphic Forest ("Cerradão"), Cerrado and Carrasco (scrub) (Campelo *et al.* 2000). *Colobosaura modesta* was collected in the sandy soil of the forested area; the two specimens were collected in leaf litter, mostly composed of decaying leaves.



FIGURE 1. *Colobosaura modesta* (ca. 35 mm SVL, CHBEZ 3758) from the Chapada do Araripe, municipality of Crato, state of Ceará, Brazil. Photo by: Jaqueiuto Jorge.

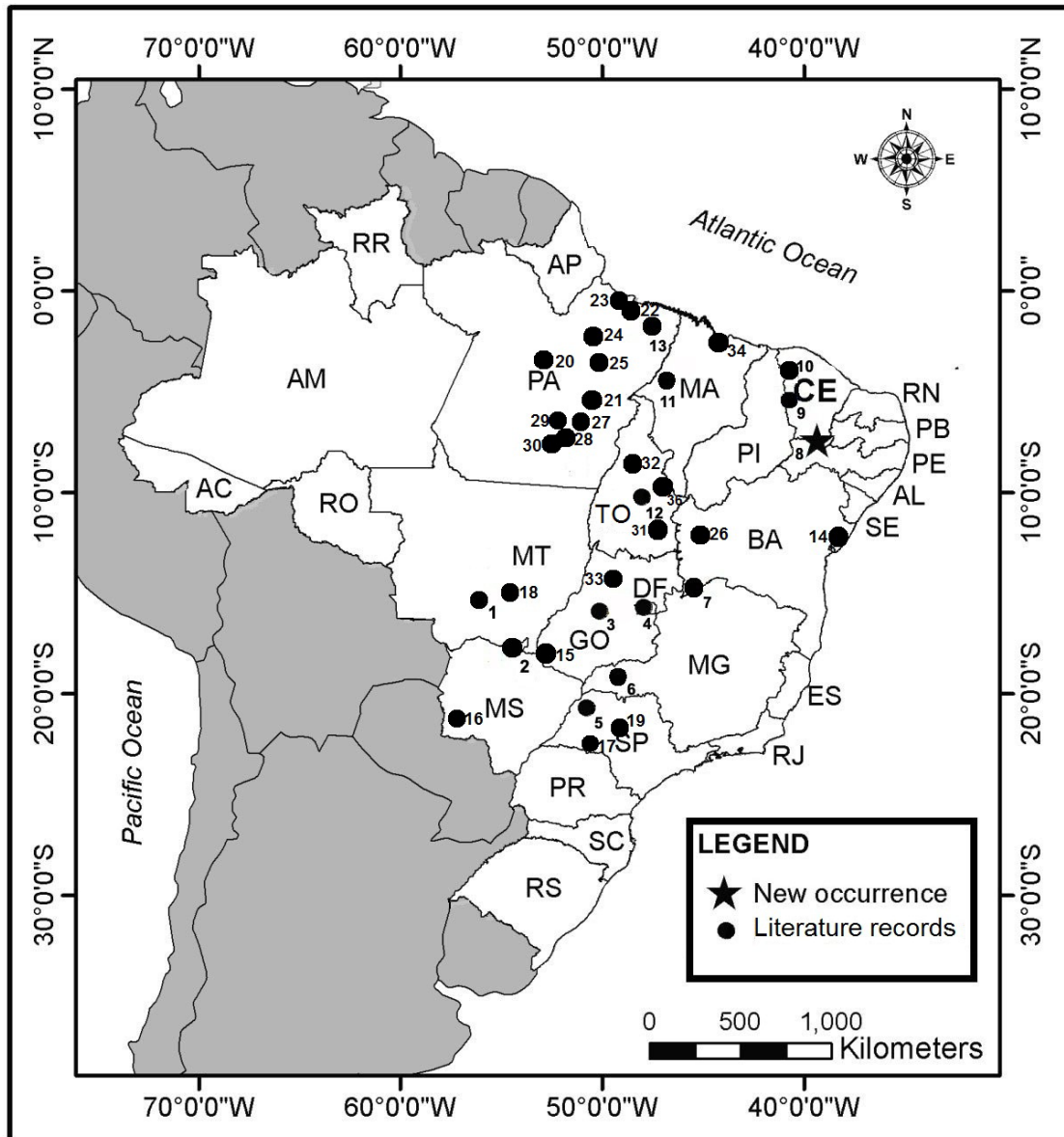


FIGURE 2. Geographic distribution of *Colobosaura modesta*. BA = Bahia; CE = Ceará; DF = Distrito Federal; MA = Maranhão; MT = Mato Grosso; MS = Mato Grosso do Sul; MG = Minas Gerais; PA = Pará; SP = São Paulo; TO = Tocantins.
 1. Ponte de Pedra (Vanzolini and Ramos 1977); 2. Barra do Bugres (Avila-Pires 1995); 3. Anápolis (Avila-Pires 1995); 4. Distrito Federal (Recoder and Nogueira 2007; Recoder et al. 2011); 5. Nova Europa (Vanzolini and Ramos 1977); 6. Morro da Garça (Reinhardt and Lütken 1862); 7. Parque Nacional Grande Sertão Veredas (Nogueira et al. 2005; Recoder and Nogueira 2007; Recoder et al. 2011); 8. Crato (Chapada do Araripe; new record); 9. Crateús; 10. Ubajara (Borges-Norjosa and Caramaschi 2003; Borges-Norjosa and Cascon 2005); 11. Vila Andiroba (Avila-Pires 1995); 12. Palmas (Recorder et al. 2011; Pavan and Dixon 2004); 13. Bragança-Viseu basin (Avila-Pires 1995; Avila-Pires et al. 2009); 14. Mata de São João (Couto-Ferreira et al. 2011); 15. Parque Nacional das Emas (Valdujo et al. 2009); 16. Serra da Bodoquena (Uetanabaro et al. 2007; Vanzolini and Ramos 1977); 17. Assis (Araujo and Almeida-Santos 2011); 18. Nobres (Santo et al. 2011); 19. Santos Dumont (Vanzolini and Ramos 1977); 20. Carajás; 21. Ilha Tocantins; 22. Augusto Côrrea; 23. Bragança; 24. Capanema; 25. Igarapé-Açu (Avila-Pires 1995); 26. Barreiras (Avila-Pires 1995); 27. Orilândia do Norte; 28. Tucumã; 29. São Félix do Xingu; 30. Paraupébas (Hernández-Ruz et al. 2008); 31. Parque Estadual do Jalapão (Mesquita et al. 2005); 32. Guarai (Curcio et al. 2011); 33. Niquelândia (Avila-Pires 1995); 34. São José do Ribamar (Costa et al. 2010); 36. Estação Ecológica Serra Geral do Tocantins (EESGT) (Recoder et al. 2011).

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