

Range extension for Wedge-billed Woodcreeper *Glyphorhynchus spirurus cuneatus* in north-east Brazil

Authors: Ruiz-Esparza, Juan, Criscoulo, André, Rocha, Patricio A. da, Beltão-Mendes, Raone, Silvestre, Saulo M., et al.

Source: Bulletin of the British Ornithologists' Club, 137(3) : 241-243

Published By: British Ornithologists' Club

URL: <https://doi.org/10.25226/bboc.v137i3.2017.a9>

BioOne Complete (complete.BioOne.org) is a full-text database of 200 subscribed and open-access titles in the biological, ecological, and environmental sciences published by nonprofit societies, associations, museums, institutions, and presses.

Your use of this PDF, the BioOne Complete website, and all posted and associated content indicates your acceptance of BioOne's Terms of Use, available at www.bioone.org/terms-of-use.

Usage of BioOne Complete content is strictly limited to personal, educational, and non - commercial use. Commercial inquiries or rights and permissions requests should be directed to the individual publisher as copyright holder.

BioOne sees sustainable scholarly publishing as an inherently collaborative enterprise connecting authors, nonprofit publishers, academic institutions, research libraries, and research funders in the common goal of maximizing access to critical research.

Range extension for Wedge-billed Woodcreeper *Glyphorynchus spirurus cuneatus* in north-east Brazil

by Juan Ruiz-Esparza, André Criscoulo, Patricio A. da Rocha, Raone Beltão-Mendes, Saulo M. Silvestre, Saulo Bomfim, Daniela Pinheiro Bitencurti Ruiz-Esparza & Stephen F. Ferrari

Received 13 April 2017; revised 16 July 2017; published 15 September 2017

<http://zoobank.org/urn:lsid:zoobank.org:pub:46DC77AE-70DD-4997-A9E3-6BB0C54B4FF0>

Wedge-billed Woodcreeper *Glyphorynchus spirurus* is the smallest dendrocolaptid in Brazil. It occurs from Mexico to Bolivia, including Amazonian Brazil and the Atlantic Forest (Sick 1997). Thirteen subspecies are recognised, of which eight occur in Brazil (Piacentini *et al.* 2015). *G. s. cuneatus* is endemic to the east coast of Brazil, in the states of Bahia and Espírito Santo.

On 20 March 2016, a *G. spirurus* (Fig. 1) was trapped in a mist-net at Fazenda Rio Fundo (11°08'07"S, 37°18'43"W), Itaporanga D'Ajuda municipality, Sergipe, Brazil. This private reserve encompasses fragments of forest, with a total area of c.800 ha, within a matrix of eucalypt and bamboo plantations, and pasture. Vegetation is typical deciduous Atlantic Forest of coastal *restinga* habitats in Sergipe, growing on sandy soils with a continuous canopy of 5–10 m in height (Beltrão-Mendes *et al.* 2011).

Our record of *G. spirurus* represents an extension of the species' range in eastern Brazil (BirdLife International 2017) by c.195 km north (Fig. 2), based on the published literature. However, two previously unpublished specimens for Sergipe are held at the Museu de Zoologia da Universidade de São Paulo (MZUSP 83411–412). These were collected by



Figure 1. Wedge-billed Woodcreeper *Glyphorynchus spirurus cuneatus*, municipality of Itaporanga D'Ajuda, Sergipe, Brazil, March 2016 (Saulo Silvestre)

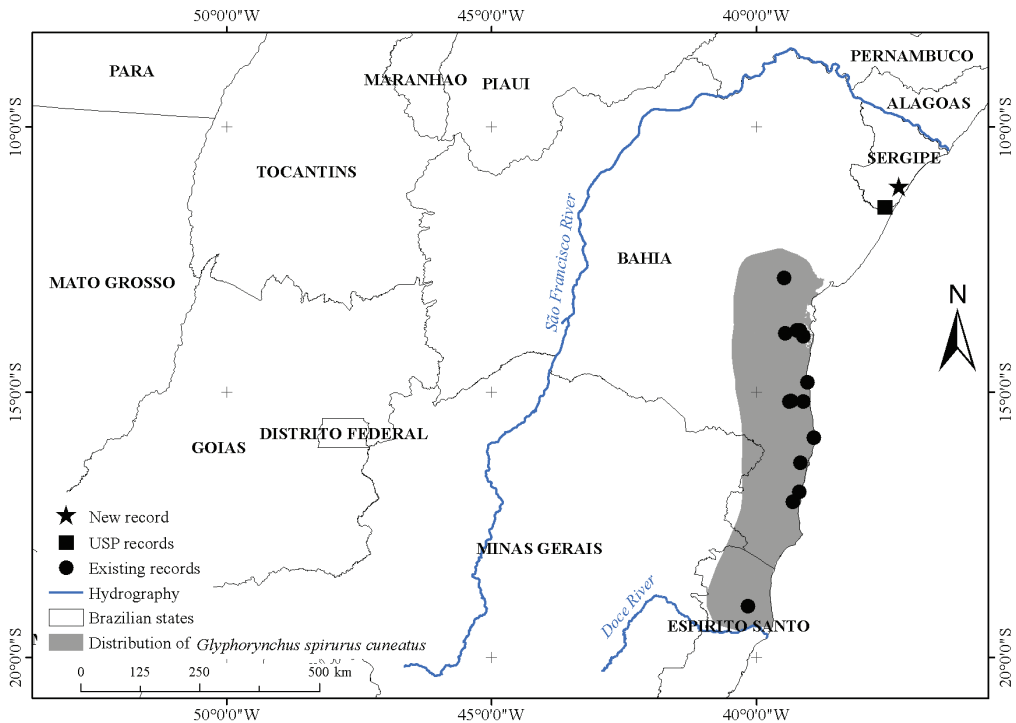


Figure 2. Available localities for Wedge-billed Woodcreeper *Glyphorhynchus spirurus cuneatus* in eastern Brazil, including the new record (star) presented here. The range polygon follows BirdLife International (2017).

A. Urben-Filho & F. C. Straube at Fazenda Sabão, Indiaroba municipality (11°31'02"S, 37°34'28"W), on 2 April 2006.

The range extension reported here indicates that *G. s. cuneatus* may occur throughout the coastal Atlantic Forest between northern Espírito Santo and Sergipe, and that the northern and southern limits of its range may coincide with the rios São Francisco and Doce, respectively (Fig. 2). These rivers play a prominent role in the zoogeography of Atlantic Forest vertebrates, e.g. White-shouldered *Pyriglena leucoptera* and Fringe-backed Fire-eyes *P. atra* (Sick 1997) or the primates Coimbra-Filho's Titi *Callicebus coimbrai* and Coastal Black-handed (Southern Bahian) Titi *C. melanochir* (Ferrari *et al.* 2013).

In south-western Amazonia, the range of *Glyphorhynchus s. inornatus* is delimited by the rios Aripuanã and Jiparaná (Fernandes *et al.* 2013). However, further research is necessary to define the northernmost limit of the range of *G. s. cuneatus*, including the zoogeographic role of the São Francisco River, given the extensive deforestation that has impacted this region (Marini & Garcia 2005, Olmos 2005, Silveira & Straube 2008,, Hilário *et al.* 2017).

Acknowledgements

We are grateful to CNPq for research grants to JRE (402582/2015-2), RB-M (503372/2014-5) and SFF (303994/2011-8, 483220/2013-2). We also thank Dr Luis F. Silveira and Marcelo Félix for providing information concerning the specimens held at the Museu de Zoologia da Universidade de São Paulo.

References:

Beltrão-Mendes, R., Cunha, A. A. & Ferrari, S. F. 2011. New localities and perspectives on the sympatry between two endangered primates (*Callicebus coimbrai* and *Cebus xanthosternos*) in northeastern Brazil. *Mammalia* 75: 103–105.
 BirdLife International. 2017. Species factsheet: *Glyphorhynchus spirurus*. <http://datazone.birdlife.org/> (accessed 15 March 2017).

- Fernandes, A. M., Gonzales, J., Wink, M. & Aleixo, A. 2013. Multilocus phylogeography of the Wedge-billed Woodcreeper *Glyphorhynchus spirurus* (Aves, Furnariidae) in lowland Amazonia: widespread cryptic diversity and paraphyly reveal a complex diversification pattern. *Mol. Phyl. & Evol.* 66: 270–282.
- Ferrari, S. F., Santos Junior, E., Freitas, E., Fontes, I., Souza-Alves, J. P., Jerusalinsky, L., Beltrão-Mendes, R., Chagas, R. R. D., Hilario, R. & Baião, S. A. A. 2013. Living on the edge: habitat fragmentation at the interface of the semi-arid zone in the Brazilian northeast. Pp. 121–135 in Marsh, L. K. & Chapman, C. A. (eds.) *Primates in fragments: complexity and resilience*. Springer-Verlag, New York.
- Hilário, R. R., Jerusalinsky, L., Santos, S., Beltrão-Mendes, R. & Ferrari, S. F. 2017. A primate at risk in northeast Brazil: local extinctions of Coimbra Filho's titi (*Callicebus coimbrai*). *Primates* 58: 343–352.
- Marini, M. Á. & Garcia, F. I. 2005. Conservação de aves no Brasil. *Megadiversidade* 1: 96–102.
- Olmos, F. 2005. Aves ameaçadas, prioridades e políticas de conservação no Brasil. *Natureza & Conservação* 3: 21–42.
- Piacentini, V. Q., Aleixo, A., Agne, C. E., Maurício, G. N., Pacheco, J. F., Bravo, G. A., Brito, G. R. R., Naka, L. N., Olmos, F., Posso, S., Silveira, L. F., Betini, G. S., Carrano, E., Franz, I., Lees, A. C., Lima, L. M., Pioli, D., Schunck, F., Amaral, F. R., Bencke, G. A., Cohn-Haft, M., Figueiredo, L. F. A., Straube, F. C. & Cesari, E. 2015. Annotated checklist of the birds of Brazil by the Brazilian Ornithological Records Committee. *Rev. Bras. Orn.* 23: 91–298.
- Sick, H. 1997. *Ornitologia brasileira*. Ed. Nova Fronteira, Rio de Janeiro.
- Silveira, L. F. & Straube, F. C. 2008. Aves ameaçadas de extinção no Brasil. Pp 379–678 in Machado, A. B., Drummond, G. M. & Paglia, A. P. (eds.) *Livro vermelho da fauna brasileira ameaçada de extinção*. Ministério do Meio Ambiente, Brasília.

Addresses: Juan Ruiz-Esparza, Núcleo de Educação e Ciências Agrárias, Univ. Federal de Sergipe, Campus do Sertão, Rodovia Engenheiro Jorge Neto, km 3, Silos, 49680-000, Nossa Senhora da Glória, Brazil, e-mail: juancolorado21@hotmail.com. André Criscoulo, Dept. of Ecology, Univ. Federal de Sergipe, Av. Marechal Rondon s/n, 49100-000, São Cristóvão, Brazil. Patricio A. da Rocha, Graduate Program in Biological Sciences, Laboratory of Mammalian Studies, Univ. Federal da Paraíba, Centro de Ciências Exatas e da Natureza, Campus I, Castelo Branco, 58051900, João Pessoa, Brazil. Raone Beltrão-Mendes, Dept. of Ecology, Univ. Federal de Sergipe, Av. Marechal Rondon s/n, 49100-000, São Cristóvão, Brazil. Saulo Meneses Silvestre de Sousa, Graduate Program in Tropical Biodiversity, Univ. Federal do Amapá, Rod. Juscelino Kubitschek, km 2 Jardim Marco Zero, 68.903-419, Macapá, Brazil. Saulo Bomfim, Dept. of Ecology, Univ. Federal de Sergipe, Av. Marechal Rondon s/n, 49100-000, São Cristóvão, Brazil. Daniela Pinheiro Bitencurti Ruiz-Esparza, Nucleus of Education in Agricultural and Earth Sciences, Univ. Federal de Sergipe, Campus do Sertão, Rodovia Engenheiro Jorge Neto, km 3, Silos, 49680-000, Nossa Senhora da Glória, Brazil. Stephen F. Ferrari, Dept. of Ecology, Univ. Federal de Sergipe, Av. Marechal Rondon s/n, 49100-000, São Cristóvão, Brazil.