

Records of Chaco Eagle *Buteogallus coronatus* from São Paulo state, south-east Brazil

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Compilamos os registros disponíveis em museus, literatura e dados online para a águia-cinzenta *Buteogallus coronatus* no Estado de São Paulo. Corroboramos grande lacuna de distribuição na porção central do estado e apresentamos os primeiros registros da espécie para o extremo oeste paulista, uma significativa extensão em sua distribuição. Sem as informações de cientistas cidadãos, 80% das localidades onde a espécie foi registrada seriam desconhecidas.

Chaco Eagle *Buteogallus coronatus*, formerly placed in the genus *Harpyhaliaetus*, is a large bird of prey which occurs in eastern Brazil, Bolivia, Paraguay and Argentina⁶. There are several historical, and undocumented, records from Uruguay, within the species' potential range, suggesting it is extinct there¹. In Brazil, the species' known range is fairly large, from the states of Maranhão and Bahia, west to Mato Grosso and south to Rio Grande do Sul⁶. Chaco Eagle occurs at low densities in open and semi-open lowland habitats, including open woodland, savanna (from *campo limpo* to *cerrado*), brushy steppe, dry scrub, and open or lightly wooded foothills to 1,200 m⁷.

Previously classified as globally Vulnerable, it was uplisted to Endangered in 2018, due to an ongoing global population decline, and it is currently estimated to number fewer than 1,500

mature individuals⁴. The main threats include habitat loss, hunting^{3,6} and persecution (deliberate disturbing or trapping)¹¹. In Brazil, it is listed as Endangered⁵, and in the state of São Paulo it is ranked Critically Endangered¹⁰.

Granzinoli *et al.*⁹ discussed its range in São Paulo and added new records from a protected area. Twelve years later, we report a new documented record of the species in westernmost São Paulo, which represents a significant range extension, and present an updated review of its range in the state.

We compiled 71 records of *B. coronatus* from published sources and those archived at eBird (<https://ebird.org/home>), the Internet Bird Collection (<https://www.hbw.com/ibc>), Macaulay Library (<https://macaulaylibrary.org>), Wiki Aves (<https://www.wikiaves.com.br>) and Xeno-canto (<https://www.xeno-canto.org>) prior to 27 August

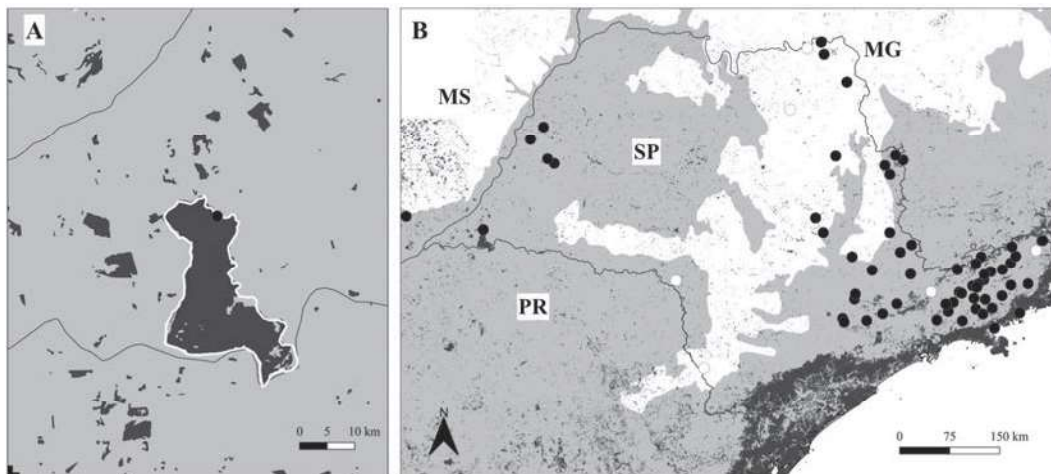


Figure 1. Records of Chaco Eagle *Buteogallus coronatus* in the state of São Paulo, south-east Brazil. (A) Localities of recent records in or close to Morro do Diabo State Park, Teodoro Sampaio; and (B) all records of the species in São Paulo. White circles represent historical records (pre-1992) and black circles recent records. Light grey indicates the Atlantic Forest phytogeographic domain, dark grey remnants of original vegetation; white represents the Cerrado domain. Brazilian states: Minas Gerais (MG), Mato Grosso do Sul (MS), Paraná (PR) and São Paulo (SP). The Mato Grosso do Sul record is the closest western locality to Morro do Diabo State Park (see text for details).



Figure 2. Adult Chaco Eagle *Buteogallus coronatus*, Morro do Diabo State Park, westernmost São Paulo state, south-east Brazil, August 2018 (José Roberto Pireni)

Table 1. Localities and dates of records (where available), in ascending order, of Chaco Eagle *Buteogallus coronatus* in the state of São Paulo, south-east Brazil. A lack of locality name indicates that we lack a precise record location. In such cases we used the central coordinates for the relevant municipality. In the source column, numbers preceding letters refer to the number of photographs (P) or sound-recordings (R). * A max. 2 e-vouchers are presented irrespective of the number available. Macaulay Library = ML, Museu de Zoologia da Universidade de São Paulo = MZUSP, Wiki Aves = WA, and xeno-canto.org = XC. Summer = December–February; autumn = March–May; winter = June–August; and spring = September–November.

Date	Locality	Latitude	Longitude	Municipality	Source*
1821–1948	–	24°6.75'S	49°19.90'W	Itararé	Museum specimen ¹⁵
1823	Porto do Rio Paraná (Porto do Rio Grande)	20°07'S	47°56'W	Miguelópolis	Museum specimen ¹⁵
1 July 1927	–	23°02.33'S	49°42.56'W	Chavantes	MZUSP11368 ¹⁵
12 August 1984	Serra da Mantiqueira	23°10.86'S	46°16'W	Nazaré Paulista	¹⁵
23 June 1991	Posse, faz. Serra da Bocaina	22°46'S	44°36'W	Silveiras	MZUSP70584 ¹⁵
1992	Bela Vista, faz.	20°53'S	48°10'W	Pontal	¹⁵
1993–2003	Ipanema National Forest	23°25.57'S	47°38.35'W	Iperó	¹²
12 July 2005, 19 October 2005, 27 July 2006	Itirapina Ecological Station	22°13.83'S	47°53.50'W	Itirapina	⁹
27 July 2006, 17 July 2016	Itirapina Ecological Station	22°13.83'S	47°53.50'W	Itirapina	4P—WA48933, WA2198776
summer 2007 and 2017, autumn 2015	Fazenda Sertãozinho	22°51.63'S	45°40.45'W	Santo Antônio do Pinhal	3P—WA2970, WA2484762
winter 2008–17, summer 2012	-	22°57'S	45°32'W	Tremembé	5P, 1R—WA1613
summer 2008 and 2009, autumn 2010, winter 2011 and 2015	-	23°05'S	45°11'W	Lagoinha	10P, 1R—WA3273, WA2403115
10 and 21 April 2008, 12 and 26 May 2008, 2 June 2008	Fazenda Sant'ana do Rio Abaixo	23°15.02'S	45°59.18'W	Jacareí	P ²
autumn 2008–12, winter 2009–13, summer 2010–17	Sítio Cotinga	23°13.91'S	45°07.48'W	São Luiz do Paraitinga	34P, 2R—WA34991, WA2951173