Distribution extension for *Hydrodynastes melanogigas* Franco, Fernandes & Bentim, 2007 (Serpentes: Dipsadidae: Xenodontinae) in the Araguaia-Tocantins basin, Brazilian Cerrado

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Abstract. We present new records for *Hydrodynastes melanogigas* Franco, Fernandes & Bentim, 2007, from eastern Mato Grosso state, Central Brazil. The four specimens found in the municipalities of Novo Santo Antônio and Ribeirão Cascalheira represent the first records in the state of Mato Grosso, and expand the species’ known distribution some 380 km southwest.

Key words. Campos de murundu; Mato Grosso; Hydrodynastini

The snake genus *Hydrodynastes* is associated with aquatic environments and occurs in some river basins of South America (Franco et al. 2007, Murta-Fonseca et al. 2015). It is currently represented by three species: *H. gigas* (Duméril, Bibron & Duméré, 1854), *H. bicinctus* (Hermann, 1804), and *H. melanogigas* Franco, Fernandes & Bentim, 2007. In Brazil, *Hydrodynastes gigas* and *H. bicinctus* have wide geographical distributions, occurring mainly in rivers of the Amazon and Cerrado biomes (Franco et al. 2007, Murta-Fonseca et al. 2015). In contrast, *H. melanogigas* is known only from few localities in the Tocantins river basin in the Brazilian states of Tocantins (municipalities of Lajeado, Palmas, and Porto Nacional) and Maranhão (municipality of Carolina), all within the Cerrado biome (Franco et al. 2007, Silva Jr et al. 2012).

Here, we present new records of *H. melanogigas* in the Brazilian Cerrado, and the first records of the species in the state of Mato Grosso.

Four specimens of *H. melanogigas* were obtained during faunal sampling for an environmental impact assessment relating to the construction of the BR-158 (Ribeirão Cascalheira)—on the border between the states of Mato Grosso and Goiás near highway BR-080/MT in eastern Mato Grosso (Fig. 1). Three specimens were recorded inside the municipal limits of Ribeirão Cascalheira, on the banks of the Rio das Mortes (12°50′56″ S, 051°08′03″ W; 12°54′00″ S, 051°06′19″ W; 12°56′33″ S, 051°07′58″ W; datum SAD 69) on 28 November 2013, 4 December 2013, and 7 March 2014, respectively. The fourth specimen was recorded in the municipality of Novo Santo Antonio, on the bank of the Cristalino River (12°48′18″ S, 050°46′44″ W; datum SAD 69) on 1 November 2013.

The individuals of *H. melanogigas* were active during the day, close to local roads traversing “Campos de murundu” (Figs. 2C, D). “Campos de murundu” consists of marshy plains with “islands” of higher, non-inundated ground, on which occur species characteristic of the Cerrado of central Brazil (Silva-Jr. & Felitti 1996). Only one of the 4 recorded specimens was foraging aquatically at the time of the encounter.

The specimens were easily recognized as *H. melanogigas*, based only in the melanistic coloration pattern (cf. Franco et al. 2007), showing a dark dorsal coloration and the absence of a post-ocular line (Figs. 2A, B). “Campos de murundu” consists of marshy plains with “islands” of higher, non-inundated ground, on which occur species characteristic of the Cerrado of central Brazil (Silva-Jr. & Felitti 1996). Only one of the 4 recorded specimens was foraging aquatically at the time of the encounter.

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*Hydrodynastes melanogigas* was described almost 10 years ago and known only for 4 localities within the Tocantins basin before this paper (Franco et al. 2007, Silva Jr et al. 2012). The species was categorized as Endangered [Blab(iii)] in the Brazilian Red List (BRAZIL 2014) due to its restricted distribution and habitat loss. The records presented here are the first reports of *H. melanogigas* from the mid-west Brazilian state of Mato Grosso and extend the known distribution of this species approximately 380 km to southwest and into the Araguaia basin (Fig. 1).

Franco et al. (2007) suggested that *H. melanogigas* and *Hydrodynastes gigas* are allopatric because the former was known only from the Tocantins basin where the latter does not occur species characteristic of the Cerrado of central Brazil (Silva-Jr. & Felitti 1996). Only one of the 4 recorded specimens was foraging aquatically at the time of the encounter.
Our data indicate that these species can be sympatric, with both occurring in the northeastern region of Mato Grosso (see Franco et al. 2007: fig. 7). Additionally, the new geographic data presented here can help the Brazilian government and researchers to better assess the conservation status for this species.

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