

New Records of Distribution for *Protomydas coerulescens* (Olivier) (Diptera: Mydidae)

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Abstract. This paper provide the first record of *Protomydas coerulescens* (Olivier) for states of Amazonas, Rondônia and Tocantins, Brazil. Previously, this species was recorded in Colombia and Brazil (Pará, Mato Grosso, Minas Gerais, São Paulo and Rio de Janeiro). Illustration and map of distribution of *P. coerulescens* are provided.

Keywords: Amazon; Brazilian diversity; map; Protomydina; Savannah.

Novos Registros de Distribuição de *Protomydas coerulescens* (Olivier) (Diptera: Mydidae)

Resumo. Este trabalho fornece os primeiros registros de *Protomydas coerulescens* (Olivier) para os estados brasileiros do Amazonas, Rondônia e Tocantins, Brasil. Esta espécie possuía registros prévios para Colômbia e Brasil (Pará, Mato Grosso, Minas Gerais, São Paulo e Rio de Janeiro). Aqui são fornecidos ilustrações e um mapa atualizado dos registros de distribuição de *P. coerulescens*.

Palavras-chave: Amazônia; Cerrado; diversidade; mapa; Protomydina.

Mydidae family is characterized by large and elongate flies, ranging from 11 to 60 mm, with variety of colors and often wasp-form in general aspect (WOODLEY 2009). At worldwide are 498 species in 66 genera (PAPE *et al.* 2011), while at Neotropical Region are accepted 116 species in 21 genera, specifically for Brazil only 24 species are registered (CARVALHO *et al.* 2012).

WILCOX *et al.* (1989) proposed a new classification for the genus *Mydas*, species previously allocated in *Mydas* were rearranged in the tribe Mydini belong three subtribes and nine genera: Mydina (*Mydas*, *Gauromydas*, *Ceratomydas*, *Utinga*, *Mapinguari*), Protomydina (*Protomydas*); Stratiomydina (*Stratiomydas*, *Chrysomydas*, *Baliomydas*).

The subtribe Protomydina differs from all other Mydini by the small ventral keel and hind spur of the hind tibiae. *Protomydas* is a monotypic genus of Protomydina, distributed in Forests and "caatingas" of the Neotropical Region (WILCOX *et al.* 1989), with only three valid species, all are found in Brazil: *Protomydas coerulescens* (Olivier), *Protomydas leucops* (Wiedemann) and *Protomydas rubidapex* (Wiedemann).

The collection of Mydidae specimens is very rare and uncommon (WILCOX & PAPAVERO 1971). However, we found specimens of *P. coerulescens* housed at CEUFT – Entomology Collection of Universidade Federal do Tocantins, Porto Nacional, TO, Brazil and INPA – Instituto Nacional de Pesquisas da Amazônia, Manaus, Brazil (see material examined). The identification of species follows WILCOX *et al.* (1989) and PAPAVERO (2009).

P. coerulescens (Figures 1-2) is a large species, since 27 to 40 mm length, base of costa black haired, antennae usually black, sometimes club indistinctly rusty red, male femora about six times

and female femora about eight times as long as wide (WILCOX *et al.* 1989). *P. leucops* differ from *P. coerulescens* by presence of several golden hairs on base of costa and male femora about seven times as long as wide, while *P. rubidapex* male femora is about 4.5 times as long as wide. *P. coerulescens* is extremely variable in wing coloration and the antennae sometimes have different colors, but is easily recognized by the examination of the male terminalia. This species is registered to Guiano-Brazilian subregion. In Brazil, *P. coerulescens* is distributed in the following states: Pará, Mato Grosso, Minas Gerais, São Paulo and Rio de Janeiro (WILCOX *et al.* 1989).

Table 1. Examined material including previously known distribution and new records.

State	Locality	Specimens / Collection	Distribution
Amazonas	Manaus, ZF2, Km-14, Torre	1♀ (INPA)	new records
	Presidente Figueiredo, AM-240, km 24, Comunidade São Francisco	1♂ (INPA)	new records
Pará	Manaus, UFAM – ICHL	1♂ (INPA)	new records
	Óbidos, Colônia São Tomé	(7♂ INPA)	previously known distribution
Tocantins	Palmas, Distrito de Taquaruçu, Fazenda Encantada	1♀ (CEUFT)	new records
Rondônia	Guaporé	1♀ (INPA)	new records

Here we expand the limits of distribution of *P. coerulescens* providing three new records of distribution on states of Brazilian Amazon (Amazonas and Rondônia) and Brazilian Savannah (state of Tocantins) (Table 1). Furthermore, a map with all distribution records of the species (Figure 3) and photos of dorsal and lateral habitus (Figures 1-2) are provide.

Material Examined. BRASIL, AM[azonas], Manaus, ZF2, Km-14, Torre, 023521S – 600655W, 16-19.vii.2004, Arm. Malaise, J.A. Rafael, F.F. Xavier F^o & J.M. Ribeiro / *Protomydas coerulescens* (Oliver, 1811) ♀, det. F.S.P. Godoi, 2007 / Specimen # AAM-006845 (1♀ INPA); BRASIL, AM[azonas], Pres.[idente] Figueiredo, AM-240, km 24, Comunidade [xx1] S.[ão] Francisco, 15.vii.2002, F. F. Xavier F^o / *P. coerulescens* (Oliver, 1811) ♀, det. F.S.P. Godoi, 2007 / Specimen # AAM-006846 (1♂ INPA); BRASIL, AM[azonas], Manaus, UFAM – ICHL, 03°06'07" S 60°01'30"W, 04.vi.2007, A.S.Neto col. / *Protomydas coerulescens* (Oliver, 1811) ♂, det. F.S.P. Godoi, 2007 / Specimen # AAM-006844 (1♂ INPA); BRAZIL, Pará, Óbidos, Colônia São Tomé 01°50'46" S 55°02'23" W 01-11.ix.2001, J.A. Rafael % J.F. Vidal, rede entom.[ológica] / Specimen # AAM-006836 (1♂ INPA); same data, except: / Specimen # AAM-006837 (1♂ INPA); same data, except: / Specimen # AAM-006838 (1♂ INPA);

same data, except: / Specimen # AAM-006839 (1♂ INPA); same data, except: / Specimen # AAM-006840 (1♂ INPA); same data, except: / Specimen # AAM-006841 (1♂ INPA); same data, except: / Specimen # AAM-006842 (1♂ INPA); Tocantins, Palmas, [Distrito de] Taquaruçu, Faz.[enda] Encantada, 10°14'57.0"S , 48°07'35.4"W, 08-15.VI.2012, Arm. malaise, Krolow, T.K. & Lima, H.I.L. leg. (1♀ CEUFT); BRASIL, RO[ndônia], Guaporé 12139S – 603244W, 23.iv.2006 J.A. Rafael & F.F. Xavier F^o, col. Manual / *Protomydas coerulescens* (Oliver, 1811) ♀, det. F.S.P. Godoi, 2007 / Specimen # AAM-006843 (1♀ INPA).

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Figure 1. Dorsal habitus of *Protomydas coerulescens*.

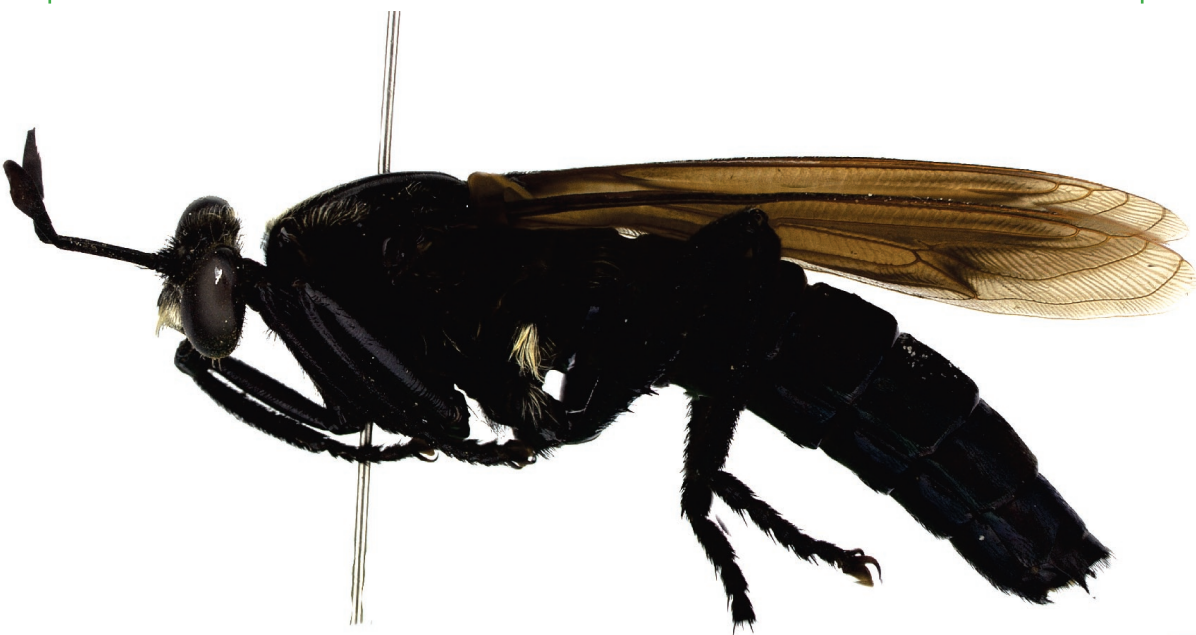


Figure 2. Lateral habitus of *Protomydas coerulescens*.

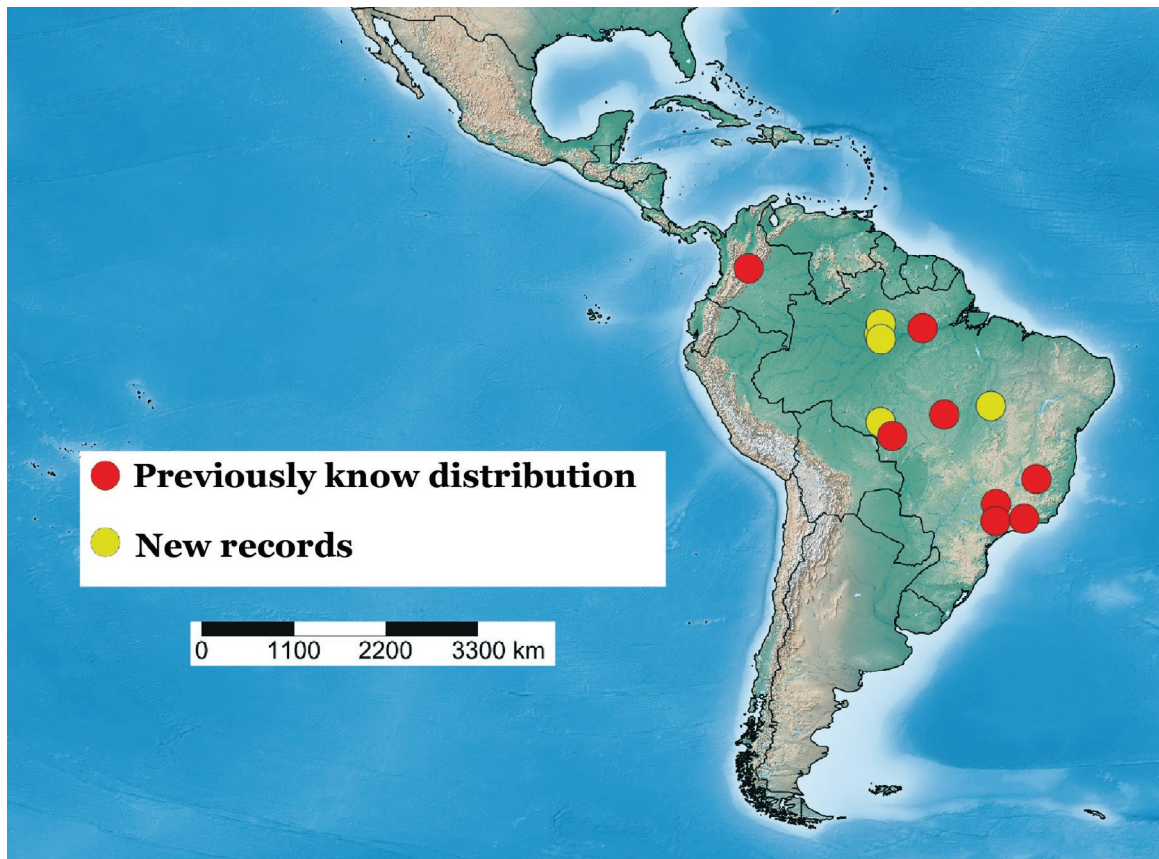


Figure 3. Map with distribution records of *Protomydas coeruleescens*.

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