A new species of *Hylesia* Hübner (Lepidoptera, Saturniidae, Hemileucinae) from Brazilian Cerrado

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ABSTRACT. The genus *Hylesia* Hübner, [1820] has about 110 exclusively neotropical species, widely distributed from Mexico to Argentina. Here a new species (*Hylesia pseudomoronensis* sp. nov.) from Brazil is described. The specific name is allusive to the morphological similarity with *H. moronensis* Lemaire, 1976.

KEY WORDS. Central Brazil; Neotropical; new moth.


PALAVRAS-CHAVE. Brasil Central; Neotropical; nova mariposa.

The Brazilian Cerrado is a type of Savanna, being the second largest biome in the country, after Amazonia, covering about 22 percent of Brazil. However, it is among the least known of any South American biome (CAMARGO & BECKER 1999).


About 110 species of *Hylesia* Hübner, [1820] are known, making it the second biggest genus of the subfamily. This group occurs only in the Neotropical region, being distributed from Mexico to Argentina. In Brazil, although there are not enough samples in most of the regions, 44 species have been recorded (LEMAIRE 2002). However, based on the Brazilian collections, more than 50 species of *Hylesia* has been considered to the country (CAMARGO & BECKER 1999).

*Hylesia pseudomoronensis* sp. nov.

Figs 1-9

Male (Figs 1-2): fore wing length 25 mm, wingspan 48 mm. Head and antennae dark orange; greenish eyes; thorax dorsally brownish and ventrally orange; legs, abdomen dorsally and ventrally orange; fore wing dorsally orange brown with shades of yellowish green, median area darker than remainder of the wing, ventrally yellowish brown. Hindwing dorsally brown, underside orange.

Male genitalia (Figs 6-8): similar of those of *Hylesia moronensis* illustrated by LEMAIRE (2002), except for the absence of the cornutus in vesica. Uncus simple, sclerotized and robust, downcurved posteriorly. Valvae large, bilobed; inner sclerotized spine long arising near apex; sacculus prominent not totally fused with valvae; juxta esclerotized; aedeagus without thorn; vesica and bulbus ejaculatorius without cornutus or any other similar structure.

Female (Figs 3-4): Sexual dimorphism strongly developed. Fore wing length 37 mm, wingspan 60 mm. Head and antennae dark; greenish eyes; thorax dorsally dark and ventrally brownish red; legs and abdomen dorsally and ventrally brownish red; the last abdominal segment with pleated aspect (Fig. 5); anal tuft yellow; dorsally, fore wing is dark with external margin darker than median area. Hindwing is also dark. Ventrally, both fore and hindwing are gray.

Female genitalia (Fig. 9): corpus bursae long and without signum; ductus bursae, anterior and posterior apophyses, lamellae postvaginalis and antevesicalis esclerotized; ductus seminalis arising from base of bursae.

Holotype male: BRAZIL, Minas Gerais: Irai de Minas (18°43’S 47°30’W, 950 m), 16.IX.1993, Camargo leg., (CPAC 11400).

Remarks: This species resembles *Hylesia* moronensis Lemaire, 1976 and *Hylesia aeneides* (Druce, 1897). However, it differs from *H. moronensis* by orange coloration and absence of the cornutus in vesica. Differs from *H. aeneides* by the absence of the long process arising from the inner margin of the saccus. Besides, the geographical distribution of both doesn’t include Brazil, not coinciding with the one of the described species. *H. aeneides* is distributed in Central America, north and west of South America (Costa Rica, Panama, French Guiana, Venezuela, Colombia, Ecuador, Peru and Bolivia), while *H. moronensis* occurs in Venezuela, Ecuador and Peru (Lemaire 2002). The male sample was collected in Gallery Forest before the beginning of the rainy period in the Cerrado Region. Because they presented a mild environment during dry season, Gallery Forests form shelters and dispersion way to certain groups of typical fauna from damper environments (Brown 2000, Camargo 2001). The females were captured in typical Cerrado vegetation areas during the rainy season. The specimens were collected with a light trap (white sheet illuminated with a 250-W mercury-vapor bulb).

Figures 1-4. *Hylesia pseudomoronensis* sp. nov.: (1-2) male holotype: (1) dorsal view; (2) ventral view; (3-4) female: (3) dorsal view; (4) ventral view. Scale bar: 1.0 cm.

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REFERENCES


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**Figures 5-9.** *Hylesia pseudomoronensis*: (5) ventral view of last abdominal segment of female; (6-7) male genitalia views: (6) ventral; (7) dorsal; (8) aedeagus, lateral view; (9) female genitalia, ventral view. Scale bar: 1.0 mm.


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