New species of *Rhaphiptera* (Coleoptera, Cerambycidae) from the Caatinga biome

Francisco E. de L. Nascimento & Freddy Bravo

1. Departamento de Ciências Biológicas, Universidade Estadual de Feira de Santana (UEFS), Av. Transnordestina, s/n; Bairro Novo Horizonte, 44.036-900 Feira de Santana, BA, Brazil. (eri_betinho@hotmail.com)
2. Programa de Pós-graduação em Zoologia, Universidade Estadual de Feira de Santana (UEFS), Av. Transnordestina, s/n; Bairro Novo Horizonte, 44.036-900 Feira de Santana, BA, Brazil. (fbravo@uefs.br)

ABSTRACT. A new species of Ceramicbycidae (Lamiinae) is described and illustrated from the Brazilian semi-arid of northeastern Brazil. *Rhaphiptera delmari* sp. nov. is recorded from Morro do Chapéu municipality in the Bahia State.

KEYWORDS. Chapada Diamantina, Lamiinae, long-horned beetles, Neotropical region, Brazilian semi-arid.

RESUMO. Nova espécie de *Rhaphiptera* (Coleoptera, Cerambycidae) do Bioma Caatinga. Uma nova espécie de Ceramicbycidae (Lamiinae) do Semiárido do Nordeste do Brasil é descrita e ilustrada. *Rhaphiptera delmari* sp. nov. é registrada do município de Morro do Chapéu no estado da Bahia.

PALAVRAS-CHAVE. Chapada Diamantina, Lamiinae, cerambícios, Região Neotropical, Semiárido brasileiro.

*Rhaphiptera* Audinet-Serville, 1835 (Lamiinae, Pteroplini) is a South American genus of Cerambycidae comprising 26 described species and it is known from French Guiana, Peru, Bolivia, Brazil and Argentina; one species of the genus was recorded from Panama in Central America (Bezark & Monné, 2013). Twenty one species of the genus are recorded in Brazil (states of Amazonas, Bahia, Espírito Santo, Goiás, Mato Grosso, Minas Gerais, Pará, Paraíba, Pernambuco, Rio Grande do Sul, Rio de Janeiro, Santa Catarina and São Paulo) (Bezark & Monné, 2013). The species of *Rhaphiptera* are recognized by the following characters: antenomere III longer than the other flagellomeres; protibia with apical and subapical projections; femora with median area elongated; base of elytron without granulations (Fragoso & Monné, 1984). Six species have been recorded from state of Bahia: *Rhaphiptera albipennis* Breuning, 1947, *Rhaphiptera oculata* Gounelle, 1908, *Rhaphiptera nodifera* Audinet-Serville, 1835, *Rhaphiptera affinis* Thomson, 1868, *Rhaphiptera aepara* Galileo & Martins, 2011 and *Rhaphiptera melzeri* Fragoso & Monné, 1984 (Bezark & Monné, 2013). The latter two species are known only from their type localities in state of Bahia (Fragoso & Monné, 1984; Galileo & Martins, 2011). We describe here a new species of *Rhaphiptera* from the semi-arid region of Bahia.

MATERIALS AND METHODS

The specimens studied were deposited in the Coleção Entomológica Professor Johann Becker, Museu de Zoologia da Universidade Estadual de Feira de Santana, Bahia, Brazil (MZFS). The male genitalia of the holotype was cleared with hot 10% sodium hydroxide for 10 minutes and neutralized with acetic acid 20%, and, then, transferred to glycerin for further dissection and examination. The genitalia was subsequently transferred to a microvial containing glycerin and pinned beneath the specimen. The terminology of the male and female genitalia follows Galileo (1987); the term phallobase in male genitalia of Snodgrass (1957) is preferred to “peça anelar” of Galileo (1987). Photomicrographs were obtained using a Leica DFC 295 video camera coupled to a Leica M205C stereomicroscope. The photos were combined using Leica Application Suite V3.Ink software. One paratype of the new species is deposited at Museu de Zoologia da Universidade de São Paulo, São Paulo, Brazil (MZSP) and the other specimens are kept in MZFS.

RESULTS AND DISCUSSION

*Rhaphiptera delmari* sp. nov.

(Figs 1-9)

Etymology. Named in honor of Irmão Marista Delmar a humanist and environmentalist from Morro do Chapéu, the type locality of this new species.

Diagnosis. Body pubescence whitish to yellowish; superior lobe of compound eyes with four rows of ommatidia; lobes separated one from another by approximately three times their individual widths; elytra anterior gibbosities, with tufts of black, Y-shaped bristles and bordered by yellowish pubescence; elytra lack transversal maculae; foretibia with medial and internally granulose protuberances.

Description. Male (Figs 1-9). Total length 14.00 mm; prothorax width 3.20 mm; prothorax length 3.40 mm; elytron length 10.00 mm; humeral width 3.50 mm. Body elongated, not depressed. Integument blackish-brown, with tufts of black, Y-shaped bristles and bordered by yellowish pubescence; elytra anterior gibbosities, with tufts of black, Y-shaped bristles and bordered by yellowish pubescence; elytra lack transversal maculae; foretibia with medial and internally granulose protuberances.

Head. In dorsal view, shorter than prothorax, uniformly punctate; punctures sparse. Area around eyes yellowish. Coronal suture extending to occipital region, sometimes only slightly evident due to the presence of dense
New species of Rhaphiptera (Coleoptera, Cerambycidae)...


Thorax. Prothorax longer than wide, with coarse and sparse punctuations. Pubescence whitish to yellowish, uniformly distributed; lateral spines moderately developed, rounded with blackish apices; three dorsal tubercles forming a triangle, two of them anteriorly located, with shiny and blackish apices; posterior tubercle present. Procoxal cavity closed, slightly rounded and laterally angular; mesosomal cavity open. Scutum with dense, yellowish pubescence. Elytra approximately 3.5-4.0 times the length of prothorax; external margins of elytra subparallel, with coarse punctuation pubescence predominantly yellowish in this area, with truncated apex; basal 1/5 of elytra with coarse punctuations and predominantly yellowish pubescence; basal 1/3 of elytra with gibbosities, crowned with tufts of black bristles, with yellowish, Y-shaped pubescence (Fig. 4). Humeral with spines projected upwards. Mesepimeron and metepimeron with dense yellowish pubescence; mesosternum whitish. Tibiae and femora with whitish pubescence; protibiae ventrally with crenulate protuberance middle (Fig. 6).

Abdomen. Urosternites with whitish pubescence.

Genitalia (Figs 7-9). Median lobe depressed and arched in lateral view, approximately five times longer than wide. Parameres in dorsal view divergent, 1/5 the length of tegmen; dorsal and ventral areas of parameres with long, blackish bristles on apical half. Roof slightly chitinous, 1/4 the length of the parameres. Phallobase approximately 2/3 the length of the tegmen, slightly sinuous, drop-shaped, wider apically.

Female. Similar to male except by the following characters: total length 12.50/13.50 mm, prothorax length 2.60/3.00 mm, elytron length 9.00/9.80 mm, humeral width 3.30/3.50 mm. Body more robust than male; antenna shorter than male, reaching the apex of elytron at the 10th antennomere; base of 5th urosternite with longitudinal, wide, and blackish furrow. A row of longitudinal blackish pubescence longer observed on the apical 1/3 of the elytra of one paratype female.

Type material. Holotype male, BRAZIL, Bahia: Morro do Chapéu, cachoeira do Ferro Doido, 11°37'40"S; 41°00'02"W, 900 masl, Light trap, 24-25.VI.2009, Zacca, T., Oliveira, L., Casais G., Menezes E. colls. (MZFS); 2 exp. MZFS, MZSP. 41°00'02"W, 900 masl, Light trap, 24-25.VI.2009, Zacca

Acknowledgements. The authors would like to thank M.Sc. Eliomar Menezes (Universidade Estadual de Feira de Santana), for the photomicrographs, Antonio Santos Silva (MZSP) for providing bibliographic material, and Dr. Ubirajara R. Martins (MZSP) for his support to field trips.
Figs 1-9. *Rhaphiptera delmari*, sp. nov., holotype male. Habitus: 1, dorsal view; 2, ventral view; 3, lateral view. 4, Elytra with Y-shaped gibbosity; 5, protibia with apical and subapical projections; 6, internal protuberance of the protibia; median lobe: 7, lateral view; 8, ventral view; 9, dorsal view. Scale bar: Figs 1-3 = 5.0 mm; Figs 4-6 = 1.0 mm; Figs 7-9 = 0.5 mm.
New species of *Rhaphiptera* (Coleoptera, Cerambycidae)...


