

Two new species of *Botocudo*
from Trinidad, Tobago, and Grenada
(Hemiptera: Rhyparochromidae: Antillocorini)

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Abstract. *Botocudo trinidadensis* is described and illustrated from the islands of Trinidad and Grenada and *Botocudo fasciatus* is described and illustrated from Trinidad and Tobago.

Resumen. Se describen e ilustran *Botocudo trinidadensis*, de las islas de Trinidad y Granada, y *Botocudo fasciatus*, de Trinidad y Tobago.

Key Words: Hemiptera, Lygaeoidea, Lygaeidae, Antillocorini, *Botocudo*, *Cligenes*, *picturata*, Trinidad, Grenada, Tobago, West Indies.

Introduction

The descriptions of *Botocudo trinidadensis* and *fasciatus* are presented here to make their names available for a work on the lygaeoid fauna of the West Indies nearing completion by R. M. Baranowski and J. A. Slater and for a revisional study in progress on the genus *Botocudo*. These species appear to be congeneric with the type species of *Botocudo* since they have one trichobothrium anterior to the spiracle on the fifth abdominal sternite and a second trichobothrium posterior to the same spiracle (Figs. 5, 15), as illustrated by Slater and Brailovsky (1994) for the type species of *Botocudo*, *B. diluticornis* (Stål); furthermore, they lack a longitudinal groove on the prosternum (Brambila 2000) as well as spines on the fore femora, they have low and long bucculae and a narrow gula, and their lateral pronotal margins are not laminate.

All measurements are in millimeters.

The following acronyms indicate the deposition of specimens: AMNH (American Museum of Natural History, New York); BMNH (The Natural History Museum, London, England); LBOB (Lois B. O'Brien Collection, Tallahassee, Florida); FSCA (Florida State Collection of Arthropods, Gainesville, Florida); JAS (J. A. Slater Collection, Storrs, Connecticut); NMNH (National Museum of Natural History, Washington, D.C); REW (R. E. Woodruff Collection, Gainesville, Florida); RMB (R. M. Baranowski Collection, Homestead, Florida); TAMU (Tex-

as A&M University, College Station, Texas); and UNAM (Colección Entomológica, Instituto de Biología, Universidad Nacional Autónoma de México, D.F., México).

Botocudo trinidadensis Brambila, new species (Figs. 1-10)

Description. Male. Head, pronotum, scutellum, a large and oblique macula along lateral corial margin at level of claval commissure, a large subapical corial macula which extends across corium (Fig. 1), pleuron, sternum, abdominal sternites, and labial segments I and II dark reddish brown. Clavus, corium, apex of scutellum, labial segments III and IV, and legs creamy white, but with fore femur yellowish brown. Tylus, labial segments III and IV, coxae, and genital capsule yellowish brown. Antennal segment I yellowish brown; II pale orange brown; and III and IV dull orange brown, nearly black at extreme proximal ends. Membrane of hemelytron transparent. Head, antennae, legs, and abdominal sternum with decumbent silvery setae. Occiput without setae, polished. Tylus reaching middle of first antennal segment. Gula shallow with bucculae low, forming a point at posterior end (Fig. 2), reaching anterior margin of prosternum. Labium extending posteriorly slightly beyond mesocoxae; segment I not attaining anterior prosternal margin. Prono-

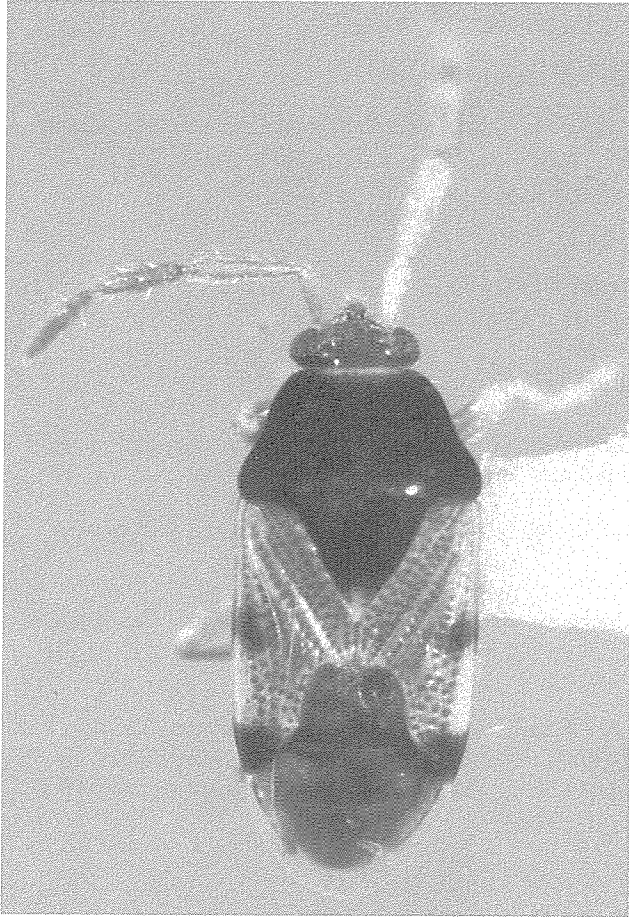
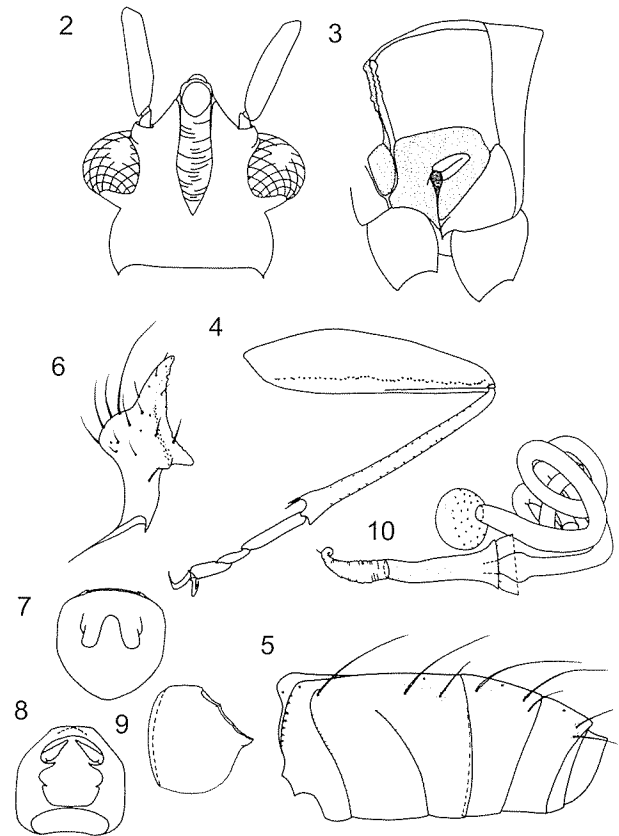


Fig. 1: *Botocudo trinidadensis*, n. sp., dorsal view of holotype, photograph.

tum and scutellum coarsely punctate, at most only slightly shining; "pseudocollar" marked by punctures; lateral margins sinuate, posterior margin concave, anterior lobe dorsally slightly convex, posterior lobe dorsally flat. Metathoracic scent gland small, slightly raised above evaporative surface, strongly curving posteriorly (Fig. 3). Evaporative area covering less than half of metapleuron, with lateral margin straight but rounded posteriorly; evaporative area on mesopleuron covering mesepimeron and extending in a narrow band to reach dorsal margin (Fig. 3). Abdominal sternum polished. Fore femur width 1.5x width of middle femur, without rows of large spines (Fig. 4). Clavus with three rows of brown punctures. Corium with brown punctures except on large translucent area that reaches posterior margin. Inner half of posterior margin of corium deeply indented.

Total body length 2.26. Head length 0.28, width 0.50, interocular space 0.28. Length left antennal segments I 0.26, II 0.42, III 0.38, IV 0.44. Length



Figs. 2-10: *B. trinidadensis*, illustrations, not to scale. 2: head, ventral view; 3: metapleuron with scent gland auricle and evaporative area; 4: left fore leg, anterior view; 5: male abdomen, lateral view; 6: right paramere; 7-9: male genital capsule caudal, dorsal, and lateral views, respectively; 10: spermatheca.

labial segments I 0.26, II 0.30, III 0.24, IV 0.19. Pronotum trapezoidal, length along midline 0.46, width across posterior margin 0.93. Scutellar length 0.52, width 0.56. Total fore wing length at midline of body 1.64, claval commissure length 0.18, midline distance from apex of clavus to apex of membrane 0.94, membrane extending beyond tip of abdomen. Male genital capsule, right paramere and spermatheca (from paratypes) as in Figs. 6-10.

Variation. Paratypes range from 2.00 to 2.48 mm in body length. All specimens of both sexes are macropterous. The color of the females is similar to the color of the males. The anterior margin of the pronotum varies in color from white to dark reddish brown; this region, here called the pseudocollar, is indicated by a row of punctures that is even or sometimes uneven. Some specimens have the wing

membrane translucent-white instead of transparent.

Holotype: Male. TRINIDAD: St. George Co., Arima-Blanchisseuse Rd., Simla, 22-X-1983, coll. R. M. Baranowski (RMB). To be deposited in FSCA. In good condition, glued on its right side to a paper point, but missing the distal half of the left hind tibia and left hind tarsus.

Paratypes: 13m, 32f. TRINIDAD. 2f St. Augustine, 19-, N.A. Weber (AMNH); 5m, 2f Simla Biol. Sta., at light, M. Emsley (JAS); 1m Arima Valley, 800-1,200 ft., 10-22-II-1964, Rosen & Wygodzinsky (AMNH); 2f Simla, Arima-Blanchisseuse Rd., 12-VII-1975, elev. 600 ft., black light trap, J. Price (RMB); 1f same except 16-VII-1975 (RMB); 1f St. George Co., Lalaja Rd., 7.5 mi. post, 26-IX-1978, R. M. Baranowski (RMB); 1f St. George Co., Arima-Blanchisseuse Rd., Simla, 17-X-1983, R. M. Baranowski (RMB); 1m same except 22-X-1983 (RMB); 1m, 1f St. George Co., Simla Research Center, 4 mi. N. Arima, 20-X-6-XI-1983, Malaise [trap], M. J. Smolen (TAMU); 1f St. George Co., Simla, Arima Valley, 12-VII-1978, black light trap, M. Ramla (RMB); 1m, 1f same except 13-VII-1978 (RMB); 2m same except 21-IX-78 (RMB); 1f same except 12-X-1978 (RMB); 1f same except 26-X-1978 (RMB); 1f same except 2-XI-1978 (RMB); 2m, 8f same except 3-XI-1978 (RMBC); 4f same except 4-XI-1978 (RMB); 1f same except 10-XI-78 (RMB); 1f same except 14-XI-1978 (RMB); 1f same except 11-XII-1978 (RMB); 1f same except 12-XII-1978 (RMB); 1f same except 13-XII-1978 (RMB).

Other Material Examined: GRENADA: 1f, [18]97, S351, Balthazar (Windward side), #66, coll. H. H. Smith (*Salacia picturata* Dist.) (NMNH); 1m St. Andrews Parish, Mirabeau Agric. Lab., 30-I-1990, BL [black light] trap, J. Telesford (RMB); 1m, 2f same except 31-I-1990, BL trap, A. Thomas (RMB); 1f St. Andrew, Mirabeau Agric. Lab., 4-II-1991 black light trap, J. Telesford (REW); 1m, 1f Grand Etang N. P., Mt. Qua Qua Tr., 7-IX-1991, C. W. & L. B. O'Brien (LBOB); 1f same except 9-IX-1991 (LBOB).

Etymology. This species is named "trinidadensis" because the holotype and most of the paratypes were collected in Trinidad.

Biology. Unknown, as nearly all specimens were collected in light traps.

Distribution. Trinidad and Grenada.

Discussion. The specimen from Balthazar, Grenada, was previously identified by Uhler (1893) as *Salacia picturata* Distant, now *Botocudo picturatus* (Slater 1964), and reported by Bergroth (1895) as *Cligenes picturatus* in a key to all species of *Cligenes*. *Botocudo picturatus* was described and illustrated from Panama by Distant (1893) as *Salacia* (?) *picturata*. Although with some similarities in the corial coloration, the specimen from Grenada is unlike the lectotype selected by Scudder (1967) for "*Botocudo picturata*" (from BMNH), which was examined by the author. *B. trinidadensis* differs from *B. picturatus* in part by size, ratios, and color as follows: 1) the range of total body length of holotype and paratypes of *B. trinidadensis* is 2.00 to 2.48 while the lectotype of *B. picturatus* measures 3.06; 2) the ratio of pronotal width to head width is 1.86 for the holotype of *B. trinidadensis* and 2.1 for *B. picturatus*; 3) the pronotum of *B. trinidadensis* is entirely or nearly entirely dark reddish brown while on *B. picturatus* the anterior lobe of the pronotum is reddish brown, the posterior lobe yellowish brown, and the lateral margins are yellowish brown; and 4) the antennal segment IV of *B. trinidadensis* is orange brown with the base nearly black instead of whitish yellow with base and apex brown, as is in *B. picturatus*. Uhler's record of *picturata* is referred here to *trinidadensis*.

***Botocudo fasciatus* Brambila,
new species
(Figs. 11-20)**

Description. Male. Yellowish brown. Head darker than pronotum. Pronotum without markings but with humeral angles slightly darker than rest of pronotum. Scutellum with base dark reddish brown and slightly iridescent, apex white. Clavus white except along inner margin and along commissure reddish brown. Corium white with smooth area anterior to indentation transparent and reddish brown, with brown band extending across corium at level of claval commissure, with a brown marking subapically (Fig. 11), and with apex creamy white. Membrane transparent but reddish brown. Abdomen with sternites reddish brown and genital capsule pale yellowish brown. Labium pale yellowish brown, except second segment brown. Antennae yellowish brown with base of segments II-IV reddish brown and apex of IV and pale. Femora yellowish brown, tibiae and tarsi pale yellowish brown.