

**DIOLCUS VARIEGATUS (HETEROPTERA:
PENTATOMOIDEA: SCUTELLERIDAE), A CARIBBEAN
SPECIES ESTABLISHED IN SOUTH FLORIDA**

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- 3'. Metathoracic scent gland canal absent or at most present as a small auricle, extending less than $\frac{1}{2}$ of distance from ostiole to lateral margin of metapleuron. 7.
- 4(3). Metathoracic scent gland canal relatively straight, apex not reaching anterior margin of metapleuron . 5.
- 4'. Distal $\frac{1}{3}$ or more of metathoracic scent gland canal distinctly curved anterad, reaching anterior margin of metapleuron 6.
- 5(4). Parameres hammer-shaped *Symphylus caribbeanus* Kirkaldy
- 5'. Reflexed, parameres uncinata. *Stethaulax marmorata* (Say)
- 6(4). Distal $\frac{1}{3}$ of metathoracic scent gland canal broadly expanded. *Sphyrocoris obliquus* (Germar)
- 6'. Distal $\frac{1}{3}$ of metathoracic scent gland canal approximately parallel-sided, not strongly expanded distally *Homaemus parvulus* (Germar)
- 7(3). Small auricle (length 1-3 times width of ostiole) accompanying scent gland ostiole. 8.
- 7'. Scent gland ostiole lacking distinct auricle (*Diolcus*) 10.
- 8(7). Abdominal venter strongly convex, lateral margins not compressed dorso-ventrally *Orsilochides guttata* (Herrich-Schaeffer)
- 8'. Abdominal venter slightly convex, lateral margins compressed dorso-ventrally (*Tetyra*) 9.
- 9(8). Rostrum long, reaching to or nearly to last abdominal segment; antennae pale with black annulations *Tetyra antillarum* Kirkaldy
- 9'. Rostrum shorter, not surpassing second visible abdominal segment; antennae relatively uniform in color *Tetyra bipunctata* (Herrich-Schaeffer)
- 10(7). Antennae pale with dark annulations; head elongate, strongly convex, tylus prominent; cicatrices bordered posteriorly by pale fascia; dorsum with pale mesial line running length of body *Diolcus variegatus* (Herrich-Schaeffer)
- 10'. Antennae relatively uniform in color; head relatively short, broad, moderately convex, tylus not prominent; cicatrices not bordered by pale fascia, at most with short pale macules; dorsum lacking pale mesial line 11.
- 11(10). At least some punctation green; typically with black almost circular macule on each side of scutellum; last abdominal sternite of males entire posteriorly, hiding male genitalia *Diolcus chrysorrhoeus* (Fabricius)
- 11'. Dorsum pale with reddish brown punctation; scutellum lacking dark macules; last abdominal sternite of males emarginate, revealing male genital segment *Diolcus irroratus* (Fabricius)

Diolcus variegatus (Herrich-Schaeffer 1836).

Pachycoris variegatus Herrich-Schaeffer, 1836, p. 106-107, Fig. 332; Germar, 1839, p. 93.

Symphylus variegatus; Dallas, 1851, p. 38; Walker, 1867, p. 54.

Diolcus variegatus; Stål, 1870, p.10; Schouteden, 1904, p. 57, pl. 3, Fig. 3; Barber and Bruner, 1932, p. 242; Barber, 1939, p. 279, Fig. 3; Bruner, Scar- amuzza and Otero, 1945, p. 167.

Diagnosis:

Dorsum pale yellow to rufous, densely punctured, punctation dark brown to black, pale mesial line extending from apex of scutellum to tylus. Length: 7.8-10.4 mm, maximum width 5.4 to 6.8 mm. Venter variable in color, punctation moderately dense, less dense along lateral margins and mesially on abdominal sternites.

Head elongate, narrow, strongly convex above, tylus distinctly surpassing apices of juga; puncta-

tion dense, relatively sparse on tylus. Antennal segments 1 and 2 pale, basal half of segment 3 pale, apical half black, segments 4 and 5 black, narrowly pale annulated at base and apex. Rostrum reaching or extending onto third visible abdominal sternite.

Pronotum densely dark punctured, midline, four additional vague vittae on posterior half, and posterior margins of cicatrices pale yellow. Anterolateral margins straight to slightly sinuous. Coloration of legs variable, but with rufus to black macules, these frequently coalescing to form large dark areas.

Last abdominal sternite of males emarginate, exposing genital cup, parameres uncinata. Basal plates of females flat mesially, becoming convex near lateral margins, postero-lateral margins sinuous, arched below ninth paratergites.

Collection Data:

Specimens were collected on false mallow, *Malvastrum corchorifolium* (Desc.) Britt. ex



Fig. 1. *Diolcus variegatus*, Habitus.

Small. (Desc.) Britt. ex Small (Malvaceae). Adults and nymphs were observed feeding on the fruit of this plant, leaving little doubt that it was the host plant. Bruner et al. (1845) list another mallow, *Sida carpinifolia* L.) as a host plant. One male was collected at the TREC on August 11, 2001; 17 males, 38 females and 10 nymphs were collected on September 25, 2001. Collection localities on the second date were TREC and scattered locations around Homestead, but the bulk of the specimens were collected from a large roadside stand of *M. corchorifolium* at the corner of SW 207 Ave. and SW 320 St. Voucher specimens have been

placed in the collections of both authors and in the Florida State Collection of Arthropods, Gainesville, FL.

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