

This striking species is readily recognizable from Bigot's description. The front and middle tarsi are yellow at the base, and the hind pair is black; the hind femora and tibiae are in great part brownish. The face may wholly want the dark spot, and the front of the female has no purple. The male vertical triangle is elongate and narrow, shining purple behind.

## 2. *Mesogramma politum*.

*Scæva polita*, Say, Journ. Acad. Phil. iii. p. 88<sup>1</sup>; Complete Writings, ii. p. 77<sup>2</sup>.

*Syrphus politus*, Say, Amer. Ent. i. t. 11. f. 8<sup>3</sup>; Complete Writings, i. p. 24<sup>4</sup>; Wiedem. Aussereur. zweifl. Ins. ii. p. 132<sup>5</sup>.

*Mesograptia polita*, Willist. Synopsis N.-Am. Syrphidæ, p. 98<sup>6</sup>; Riley & Howard, Insect Life, i. p. 4<sup>7</sup>.

*Syrphus cingulatulus*, Macquart, Dipt. Exot. 4<sup>e</sup> Suppl. p. 155<sup>8</sup>.

*Syrphus hecticus*, Jænnicke, Neue exot. Dipt., in Abh. Senck. Ges. vi. p. 398<sup>9</sup>.

*Hab.* UNITED STATES<sup>1 3</sup>, Pennsylvania<sup>5</sup>, Connecticut<sup>6</sup>, Georgia<sup>6</sup>, North Carolina<sup>6</sup>, Kansas<sup>6</sup>, Illinois<sup>9</sup>, Florida<sup>8</sup>. — MEXICO, Acaguizotla 3500 feet, Amula 6000 feet, Chilpancingo 4600 feet, Hacienda de la Imagen 4000 feet, Venta de Zopilote 2800 feet, Tierra Colorada 2000 feet, and Dos Arroyos 1000 feet, all in Guerrero, Teapa in Tabasco (*H. H. Smith*), Temax in North Yucatan (*Gaumer*).—CUBA<sup>6</sup>.

Seventy-five examples. They agree closely with specimens from the United States.

## 3. *Mesogramma marginatum*.

*Scæva marginata*, Say, Journ. Acad. Phil. iii. p. 92<sup>1</sup>; Complete Writings, ii. p. 80<sup>2</sup>.

*Syrphus marginatus*, Wiedem. Aussereur. zweifl. Ins. ii. p. 146<sup>3</sup>.

*Mesograptia marginata*, O. Sacken, Cat. Dipt. 2nd ed. p. 125<sup>4</sup>; Willist. Synopsis N.-Am. Syrphidæ, p. 100<sup>5</sup>.

*Syrphus quintius*, Walker, Ins. Saunders., Dipt. p. 239<sup>6</sup>.

*Mesograptia* (?) *circumdata*, Bigot, Ann. Soc. Ent. Fr. 1884, p. 107<sup>7</sup>.

*Hab.* NORTH AMERICA<sup>1 3 6</sup>, Atlantic, Southern, Middle, and Pacific States<sup>5</sup>, Atlantic States and California<sup>4</sup>.—MEXICO<sup>7</sup>, Amula 6000 feet, Omilteme 8000 feet, Chilpancingo 4600 feet, Mexico city, Cuernavaca in Morelos, Teapa in Tabasco (*H. H. Smith*), Orizaba (*H. H. Smith and F. D. Godman*).

Fifteen specimens. Three males have the scutellum black in its middle. The vertical triangle is unusually large in this species.

## 4. *Mesogramma* <sup>*bidentata*</sup> — ?

*Male.* Face, frontal triangle, and antennæ yellow; cheeks black. Vertical triangle large, broad, elongate, shining purple. Mesonotum somewhat bluish or bronze-black, more shining towards the sides; median line whitish; margins without yellow stripe; a round spot on the humeri, and rarely an indistinct one on the postalar callosities, yellow. Scutellum shining metallescent black, without yellow. Abdomen elongate; first two segments shining black; the other segments brown and red, sometimes darker, sometimes