

Milesia cruciger, Wiedem. Aussereur. zweifl. Ins. ii. p. 105³.

Plagiocera cruciger, Macq. Dipt. Exot. ii. 2, p. 60, t. 10. f. 7⁴.

Pteroptila crucigera, Willist. Synopsis N.-Am. Syrphidæ, p. 180, t. 8. figg. 1, 1a-c⁵.

Mallota millesiformis, Macq. Hist. Nat. Dipt. i. p. 500⁶.

Hab. UNITED STATES, Georgia^{3 4 5}, Carolina^{1 2}, Florida⁵, Texas⁵.—MEXICO, Northern Sonora (*Morrison*), Atoyac in Vera Cruz, Teapa in Tabasco (*H. H. Smith*), Yucatan⁶ (*Gaumer*).—CUBA^{4 6}.

A male specimen from Teapa agrees throughout with the detailed description given by me, though it is only twelve millim. in length. A female from Atoyac has the facial stripe almost wholly red, the black mesonotal stripes mostly wanting, the scutellum lighter, and the hind femora almost entirely black. A male from Yucatan has the face and front wholly reddish, the mesonotal stripes wanting, the scutellum red, and the second abdominal segment largely red. Two other examples, both males, from Sonora and Teapa, agree with the last-mentioned specimen in the colour of the head and thorax; but they have the abdomen almost wholly red and reddish-brown—the first segment and a narrow stripe at the base of the second opaque black, and the hind femora almost entirely black; these specimens measure 14–15 millim. in length. I believe that they all belong to one species, though showing a variation not previously suspected.

2. *Pteroptila zonata*.

Pteroptila zonata, Loew, Centur. vi. no. 60, in Berl. ent. Zeitschr. 1865, p. 165¹; Willist. Synopsis N.-Am. Syrphidæ, p. 182 (translation).

Hab. MEXICO¹, Xucumanatlan 7000 feet, and Omilteme 8000 feet, both in Guerrero (*H. H. Smith*).

I may add to Loew's description, which applies well to the three specimens received, that, between the white tomentose spots of the anterior part of the thorax, the black is velvety, as is also the second abdominal segment before the yellow cross-band. In the female the front is black, the femora are black, except their tips, and the four front tibiæ are black at the distal end.

A single, female, specimen from Volcan de Chiriqui (*Champion*) differs in its larger size (16 millim.), and in having the pile of the sides of the thorax and of the first abdominal segment brassy-yellow; the legs darker (all the tarsi and the ends of the hind tibiæ being blackish) and with yellow pile; and the costal cell dark brown, not nearly hyaline. I believe that it belongs to a distinct species; at all events, the variety is a well-marked one, and may be known as *P. loewi*.

HELOPHILUS.

Elophilus, Meigen, in Illiger's Magazin, ii. p. 274 (1803).

Aemosyrphus, Bigot, Bull. Soc. Ent. Fr. 1882, p. cxxviii, and Ann. Soc. Ent. Fr. 1883, p. 288.