

### 7. *Mesogramma mutuus*.

*Syrphus mutuus*, Say, Journ. Acad. Phil. vi. p. 164<sup>1</sup>; Complete Writings, ii. p. 358.

*Male*. Frontal triangle and face small, yellow, the latter prominent; antennæ yellow; cheeks black. Vertical triangle of moderate width, rather shining behind. Mesonotum olivaceous-green, opaque; lateral yellow stripe complete. Scutellum yellow, the disc somewhat reddish or brownish. Pleuræ deep shining blue, with two or three yellow spots. Abdomen narrow, broadest posteriorly; shining blue-black, more or less opaque in the proximity of the yellow bands; first segment largely yellow in front and on the sides; second segment with a slender median stripe, uniting posteriorly with a median yellow band; third and fourth segments each with an anterior band and a slender median stripe, the band sometimes including two approximated opaque black spots; at other times the narrow anterior band shows five posterior prolongations—the median stripe, the lateral margins, and two oval marks projected towards or blended with the median stripe; fifth segment black, with an irregular interrupted band in front. Legs yellow; hind femora and tibiæ with brownish rings; hind tarsi brown. Alulae of wings rudimentary.

*Female*. Front narrow, shining black, with the sides below yellow; the linear stripes of the abdomen more or less obsolete.

Length 5–7 millim.

*Hab.* MEXICO<sup>1</sup>, Mexico city, Cuernavaca (*H. H. Smith*), Orizaba (*H. H. Smith and F. D. Godman*), Patzcuaro (*F. D. Godman*).

Twenty-eight specimens.

I believe that this is Say's *Syrphus mutuus*, but I have thought it worth while to give a fuller description. It is possible, however, that the following (8) may be the true *M. mutuus*.

### 8. *Mesogramma* — ?

Very similar to the preceding species, and perhaps not really distinct from it. It differs distinctly, however, in the abdomen being shorter and more oval, and with broad straight yellow bands, leaving narrow posterior brown or brownish bands, and indefinite brownish spots corresponding to the opaque black spots of the preceding species.

Length 5–7 millim.

*Hab.* MEXICO, Teapa in Tabasco (*H. H. Smith*).

Three other specimens, from Acaguizotla, Tepetlapa, and Orizaba, differ still further in the abdomen having broad straight yellow bands, leaving only narrow brown or blackish bands between them.

### 9. *Mesogramma pallipes*.

*Mesograptus* (?) *pallipes*, Bigot, Ann. Soc. Ent. Fr. 1884, p. 106<sup>1</sup>.

*Hab.* MEXICO<sup>1</sup>, Xucumanatlan 7000 feet, Tierra Colorada 2000 feet, both in Guerrero, Teapa in Tabasco (*H. H. Smith*).

A number of specimens, among which there may or may not be more than one species, agree sufficiently well with Bigot's description as regards the abdomen. The face, however, has a callosity, as in all the other species of the genus, though it is not so prominent as in some of them. The mesonotum is subopaque, with a median cinereous