

I have not seen other specimens of this species, yet it seems probable that my determination is correct. At all events, the species seems to be the same as, or very closely allied to, the one described by Schiner under the name of *M. fenestratum*, from South America, the only discrepancy being in the pollen of the face, which is not "schwarz punktirt," but has elongate, ripple-like markings. The black of the third, or third and fourth abdominal segments is bisected, as in *M. stegnum*. The species forms, with *M. obscurum*, Say, *M. stegnum*, Say, and *M. punctulatum*, v. d. Wulp, a natural group, that might justly receive a generic name.

### 3. *Melanostoma bucephalus*.

*Syrphus bucephalus*, Wiedem. Aussereur. zweifl. Ins. ii. p. 126<sup>1</sup>.

*Melanostoma bucephalus*, Willist. Trans. Am. Ent. Soc. xv. p. 264<sup>2</sup>.

*Hab.* MEXICO, Amula 6000 feet, Xucumanatlan 7000 feet, Venta de Zopilote 2800 feet, Omilteme 8000 feet, all in Guerrero (*H. H. Smith*).—BRAZIL<sup>1</sup>, Chapada<sup>2</sup>.

Fourteen specimens. I have compared them with others from Chapada, Brazil, and find no differences. *M. euceratum*, Bigot, seems to be an allied species. *M. bucephalus*, as Wiedemann remarks<sup>1</sup>, is allied to *M. hyalinatum* from Europe.

### 4. *Melanostoma mellinum*.

*Musca mellina*, Linn. Faun. Suec. p. 1821<sup>1</sup>.

*Melanostoma mellinum*, Willist. Synopsis N.-Am. Syrphidæ, p. 49, t. 3. f. 9<sup>2</sup> \*.

*Syrphus melliturgus*, Meigen, Syst. Besch. iii. p. 329<sup>3</sup>; Macq. Dipt. Exot. 4<sup>e</sup> Suppl. p. 152<sup>4</sup>.

*Melanostoma* (?) *cruciata*, Bigot, Ann. Soc. Ent. Fr. 1884, p. 81<sup>5</sup>.

*Hab.* EUROPE (*auct.*).—UNITED STATES, New England, Kansas, and Pacific States<sup>2</sup>.—MEXICO<sup>5</sup> (*H. H. Smith, Forrer*).—SOUTH AMERICA<sup>3 4</sup>.

I have carefully compared the numerous Mexican specimens with others from the eastern United States, and find no differences, except minor colorational ones. I have little doubt of the synonymy of *M. cruciatum*, Bigot, notwithstanding the "thorax, écusson, presque noirs et luisants" and the small size.

### 5. *Melanostoma pruinsum*.

? *Melanostoma* (?) *pruinosa*, Bigot, Ann. Soc. Ent. Fr. 1884, p. 79<sup>1</sup>.

*Hab.* UNITED STATES, California<sup>1</sup>.—MEXICO, Sierra de las Aguas Escondidas 7000 feet (*H. H. Smith*).

A single, female, specimen. In such species as this, Bigot's descriptions are usually too vague for one to feel any degree of certainty in their determination. The Mexican insect may be thus described:—

\* For fuller synonymy, see Willist. *loc. cit.*