

- Abdomen without yellow markings; face in the middle with three or four parallel, transverse, delicate grooves. . . . 7.
4. Large species; abdomen oval, with four yellow spots in the male, and two smaller additional ones in the female . . . *bucephalus*, Wiedem. ~~Xanth~~
- Species of smaller or ordinary size and elongate form . . . 5.
5. Antennæ elongated and separated at their base . . . *catabombum*, sp. n.
- Antennæ short, the first joint not so long as the second; antennæ more nearly contiguous at their base . . . 6.
6. Face lightly and uniformly pollinose . . . *mellinum*, (Linn.)
- Face, on the sides and the lower part of the front, covered with dense yellow pollen . . . ? *pruinoseum*, Bigot.
7. Antennæ black; abdomen mostly opaque black . . . *melanocorum*, sp. n.
- Antennæ more or less yellowish; abdomen largely shining . . . 8.
8. First joint of the antennæ not longer than the second . . . *rugosonatus*, sp. n.
- First joint of the antennæ as long as the other two joints together; wings with narrow brown clouds on the cross-veins . . . *crenulatum*, sp. n.

1. *Melanostoma stegnum*.

Syrphus stegnus, Say, Journ. Acad. Phil. vi. p. 163¹; Complete Writings, ii. p. 358.

Melanostoma tigrina, Osten Sacken, Western Dipt., in Bull. U.S. Geol. & Geogr. Survey, iii. p. 323².

Melanostoma tigrinum, Willist. Synopsis N.-Am. Syrphidæ, p. 47, t. 3. f. 8³.

Hab. UNITED STATES, Washington³, California^{2 3}, Colorado³, Kansas, Arizona³.—MEXICO¹, Omilteme 8000 feet, Amula 6000 feet, Sierra de las Aguas Escondidas 7000 feet, all in Guerrero (*H. H. Smith*), Ciudad in Durango 8100 feet (*Forrer*), Orizaba (*H. H. Smith and F. D. Godman*).

Numerous examples. The males agree quite with specimens from the United States. The female, hitherto unknown, has the front broad above, pollinose, except on the upper part, and with black pile; the thorax more shining metallic blue; the tibiæ yellow; and on both the third and fourth abdominal segments there is a narrow shining stripe, bisecting the black, as in the fourth segment of the male. The male has some long black hairs on the outer side of the front and middle tibiæ, which are inconspicuous in the female. It is evident, from the light colour of the tibiæ, that Say's specimens were females.

2. *Melanostoma fenestratum*.

Syrphus fenestratus, Macq. Dipt. Exot. ii. 2, p. 103, t. 17. f. 6¹; Blanchard, in Gay's Hist. fis. y polit. de Chile, vii. p. 413²; Philippi, Verh. zool.-bot. Ges. Wien, xv. p. 746³.

Melanostoma fenestrata, Schiner, Reise der Novara, Diptera, p. 351⁴.

Hab. MEXICO, Omilteme 8000 feet (*H. H. Smith*), Ciudad in Durango 8100 feet (*Forrer*).—SOUTH AMERICA⁴, Chili^{1 2 3}.