

19. **Volucella chætophora.** (Tab. I. figg. 15, ♂; 15 a, head; 15 b, antenna.)

*Volucella chætophora*, Willist. Synopsis N.-Am. Syrphidæ, p. 149<sup>1</sup>.

*Hab.* MEXICO, Acapulco in Guerrero (*H. H. Smith*), Isthmus of Tehuantepec (*coll. Riley*<sup>1</sup>), Temax in Northern Yucatan (*Gaumer*).

Two specimens. The front is black-pilose, not "black, pilose." There is some shorter whitish pile on the mesonotum, and the legs may be deep red or reddish-black, and the abdomen deep blue. There are violaceous reflections on the mesonotum.

20. **Volucella comastes**, sp. n., ♀.

Front brown, yellow at the vertex and on the sides below; pile black. Face light yellow, with a broad brown stripe; in profile nearly perpendicular, with an obtuse tubercle. Cheeks with a broad blackish stripe. Antennæ at least a third of the length of the face, dark brown, the basal joints more reddish; third joint gently widened at the base; arista not thinly plumose. Mesonotum shining blue-black, the sides yellow and reddish, and with a light yellow geminate spot in the middle behind. Pleuræ brownish-black; a light yellow spot on the mesopleuræ. Margin of scutellum, postalar callosities, and lateral margins of mesonotum with black bristles; a transverse row of bristles in front of the scutellum. Scutellum translucent brownish-yellow, yellow at the base and margin. Abdomen: first segment more or less brown; second segment very light translucent-yellow, with a narrow posterior dark brown or black band; third segment black, with an interrupted yellow band in front. Legs brownish-black; the distal end of the femora, basal part of the tibiæ, and basal joints of the tarsi reddish. Wings nearly hyaline, clouded on the anterior part, the clouds forming two darker spots—one near the tip, the other, the larger, at the middle.

Length 9 millim.

*Hab.* MEXICO, Orizaba (*H. H. Smith* and *F. D. Godman*).

Two specimens. One might suspect this to be *V. variegata*, Bigot, save for the abdominal markings and the size.

21. **Volucella amethystina.**

*Volucella amethystina* (sic), Bigot, Ann. Soc. Ent. Fr. 1875, p. 479<sup>1</sup>.

*Hab.* MEXICO<sup>1</sup>, Presidio (*Forrer*).

This striking species is easily recognizable from Bigot's description. The head is rather broad, the face produced acutely downward; the third antennal joint of the female is not at all coarctate; the scutellum is not impressed before its apex, the bristles at the tip are remote, and there is an inconspicuous row of them before the scutellum.

22. **Volucella tympanitis.**

*Syrphus tympanitis*, Fabr. Syst. Antl. p. 226<sup>1</sup>.

*Volucella tympanitis*, Wiedem. Aussereur. zweifl. Ins. ii. p. 200<sup>2</sup>; Willist. Trans. Am. Ent. Soc. xv. p. 275<sup>3</sup>.

*Hab.* MEXICO, Atoyac in Vera Cruz, Teapa in Tabasco (*H. H. Smith*); PANAMA, Bugaba (*Champion*).—SOUTH AMERICA<sup>1 2</sup>, Brazil<sup>3</sup>.

Eight specimens, agreeing closely with others from South America.