

W. Williston, 1896

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Mr. A. L. Williston
with the kind regards
J
S. W. Williston

(253)

XI. *On the Diptera of St. Vincent (West Indies).* By PROFESSOR SAMUEL WENDELL WILLISTON. (*Dolichopodidæ* and *Phoridaæ*, by PROFESSOR J. M. ALDRICH.) Communicated by DAVID SHARP, M.A., F.R.S., on behalf of the Committee for investigating the Flora and Fauna of the West Indies.

[Read March 4th, 1896.]

PLATES VIII., IX., X., XI., XII., XIII. and XIV.

[THIS paper is a list, accompanied with descriptions, of the Diptera found in the island of St. Vincent, by Mr. H. H. Smith, the well-known American entomologist, who was sent to the islands by F. D. Godman, Esq., F.R.S., to assist the Committee in its investigations. Some general remarks by the Author will be found at the end of the paper. A second memoir, treating of the Diptera of the neighbouring island of Grenada, will, it is hoped, be almost immediately ready for publication, the present instalment having been in the hands of the Committee for upwards of two years.—D. S.]

CECIDOMYIIDÆ.

DIPLOSIS.

Loew, Dipt. Beitr., iv., 20, 1850.

1. *Diplosis pictipes*, n. sp.

♂. Face yellow. Antennæ as long as the wings, yellow, the joints alternately double, with their petioles as long as the thickened portion. Mesonotum opaque red; two slender stripes and the middle portion behind yellow. Abdomen reddish-yellow. Legs black; the distal two-fifths of the front femora, the immediate tip of the hind femora, the tip of the hind tibiæ; a broad ring on the second, third, and fourth joints of all the tarsi, and the terminal portion of the fifth joint, light yellow. Wings with black hair, forming irregular markings; third vein gently curved, terminating just beyond the tip of the wing. Length 1½ mm.

Four specimens.

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1896: 253-446, 7 plates

AGROMYZIDÆ.

PLATOPHRMYIA, n. g.

Allied to *Agromyza*, but the front very long, plane, and the epistoma projecting, the proboscis long and slender, folding backward near the middle. Front long, descending, plane or gently concave longitudinally, with moderately strong bristles reaching nearly to the root of the antennæ. Antennæ short, third joint large, rounded, arista bare. Face excavated in profile, short, the epistoma projecting as far forward as the antennal projection; oral margin of cheeks long, horizontal, straight; well developed vibrissal bristles present. Oral margin in front notched. Palpi large, projecting, a little thickened at the extremity. Thorax moderately arched in front, flattened behind, with bristles on the sides and in front of the scutellum. Scutellum large, with four bristles. Abdomen oval, depressed, composed apparently of five visible segments, genitalia not prominent. Legs short and rather strong, not at all bristly. Auxiliary vein rudimentary; first longitudinal vein short; basal cells small but distinct; cross-veins approximated, the posterior one situated before the middle of the wing.

1. *Platophrymyia nigra*, n. sp.

Black. Frontal triangle prominent, with a depression on either side, which extends in the middle in front to the antennæ shallowly. Face with a distinct median keel. Palpi black. Thorax lightly greyish-dusted. Scutellum oval, with four bristles, the median pair decussate. Abdomen pruinose. Halteres yellow. Metatarsi yellowish. Wings whitish-hyaline; penultimate section of the fourth vein about as long as the ultimate section of the fifth vein; the third vein terminates a very little beyond the apex of the wing, and is curved a little toward the fourth vein towards its extremity. Length 2 mm.

One specimen. St. Vincent.

OPHTHALMOMYIA, n. g.

Auxiliary vein feebly distinct at its beginning, continuing as an indistinct line and then uniting with the first vein. First vein short, extending little more than one-third of the length of the wing, with an incision in the costa before its tip. Cross-veins not approximated, the ultimate section of the fourth vein scarcely

twice the length of the penultimate section; anterior cross-vein situated a little before the termination of the first vein; basal cell small, but complete. Face narrow, feebly carinate on the upper part, broader in the female than in the male, with a row of rather long bristles on each side extending nearly to the antennæ, but without true vibrissæ. The face is plane, not projecting in profile; in the middle, not reaching much more than three-fourths the distance from the root of the antennæ to the lower border of the eyes; epistoma not at all projecting; clypeus projecting lappet-like; cheeks linear, with bristles along the oral margin. Eyes forming nearly the entire head in profile, with a distinct excision on the occipital border near the middle. Occiput concave. Antennæ short, third joint rounded, arista bare. Proboscis slender, when folded enclosed within the oral cavity, the labella slender and turned backward. Legs moderately slender, with bristles on the under side of the femora, but no preapical bristles and no spurs, save on the middle tibiæ. Mesonotum with bristles on the sides and before the scutellum, the latter oval, with four bristles. Abdomen ovate, composed of five segments; ovipositor of female telescopic, cylindrical, when extended about as long as the fifth segment; male genitalia not exerted. Eyes bare. First posterior cell nearly closed.

1. *Ophthalmomyia lacteipennis*. (Pl. XIV., figs. 154, wing; 154a, b, head of ♂.)

Lobioptera lacteipennis, Loew, Centur., vi., 97.—Cuba.

♂, ♀. Deep shining metallic black; the front and face more opaque; legs brownish-black. Abdomen opaque, somewhat bronze-black, the margins and the fifth segment shining metallic; palpi reddish; wings whitish. Length 2-3 mm.

Numerous specimens.

CERATOMYZA.

Schiner, Wien. Ent. Monatschr., vi., 1862; *Odontocera*, Macquart, Hist. Nat. Dipt., ii., 1835 (preoc.).

1. *Ceratomyza dorsalis*. (Pl. XIV., figs. 155, wing; 155a, head.)

? *Odontocera dorsalis*, Loew, Centur., iii, 98.—District Columbia.

♂, ♀. Front opaque dusky-yellow, with a rounded black spot about the ocelli. Face and cheeks yellow. First two joints and the under basal portion of the third joint of the antennæ yellow

5. *Drapetis*, n. sp.

♂. Very much like *D. flavipes*, but smaller, the second longitudinal vein shorter and more concave, the third vein straighter, the fourth terminating at the extreme tip of the wing, instead of a little beyond it, etc. Length 1 mm.

One specimen.

AGROMYZIDÆ. (See p. 426.)

PHYLLOMYZA.

Fallen, Diptera Suec., Ocht., 8, 1823.

1. *Phyllomyza magnipalpis*, n. sp. (Pl. XIV. fig. 169,
head of ♀.)

♀. Head deep black. Front broad, large, the narrow orbits, on which are placed the lateral row of bristles, subshining. Third antennal joint very large, the arista, which springs from its superior angle, finely pubescent. Face excavated, retreating in profile. Palpi very large, projecting; proboscis small, rather slender. Thorax deep black; mesonotum shining, with black hair. Scutellum large, trapezoidal, with a stout bristle on each apical angle. Abdomen black, with black hair, not shining; in shape, short ovate, the five segments of nearly equal length. Legs black, the immediate tip of femora, the front tibiae, the middle tibiae in part and all the tarsi yellow. Wings nearly hyaline; basal cells small, but complete; submarginal cell narrowed at the extremity, its costal margin only about half the length of that of the first posterior cell; the third vein terminates at the extreme tip of the wing; penultimate section of the fourth vein less than one-third the length of the ultimate section. Length 1½ mm.

One specimen.

AGROMYZA. (See p. 428.)

5. *Agromyza innominata*, n. sp. (Pl. XIV., fig. 15S,
head of ♂.)

♂. Head yellow, a blackish spot at the ocelli; front broad. Antennæ yellow; third joint longer than broad; arista finely pubescent. Face short, gently excavated in profile; cheeks rather broad. Palpi elongate, dilated. Thorax obscurely reddish-yellow;

mesonotum with black hairs. Scutellum large, with two stout, remote, black bristles. Abdomen brown or blackish, yellowish at base. Legs light yellow; hind femora black at the immediate tip. Wings cinereous hyaline; basal cells complete; penultimate section of the fourth vein a little longer than the posterior cross-vein, or the last section of the fifth vein. Length $1\frac{1}{2}$ mm.

One specimen.

GEOMYZIDÆ.

ANTHOMYZA.

Fallen, Spec. Entom., 1810; *Leptomyza*, Macquart, Hist. Nat. Dipt., 1835; *Anthophilina*, Zetterstedt, Ins. Lapp., 1840.

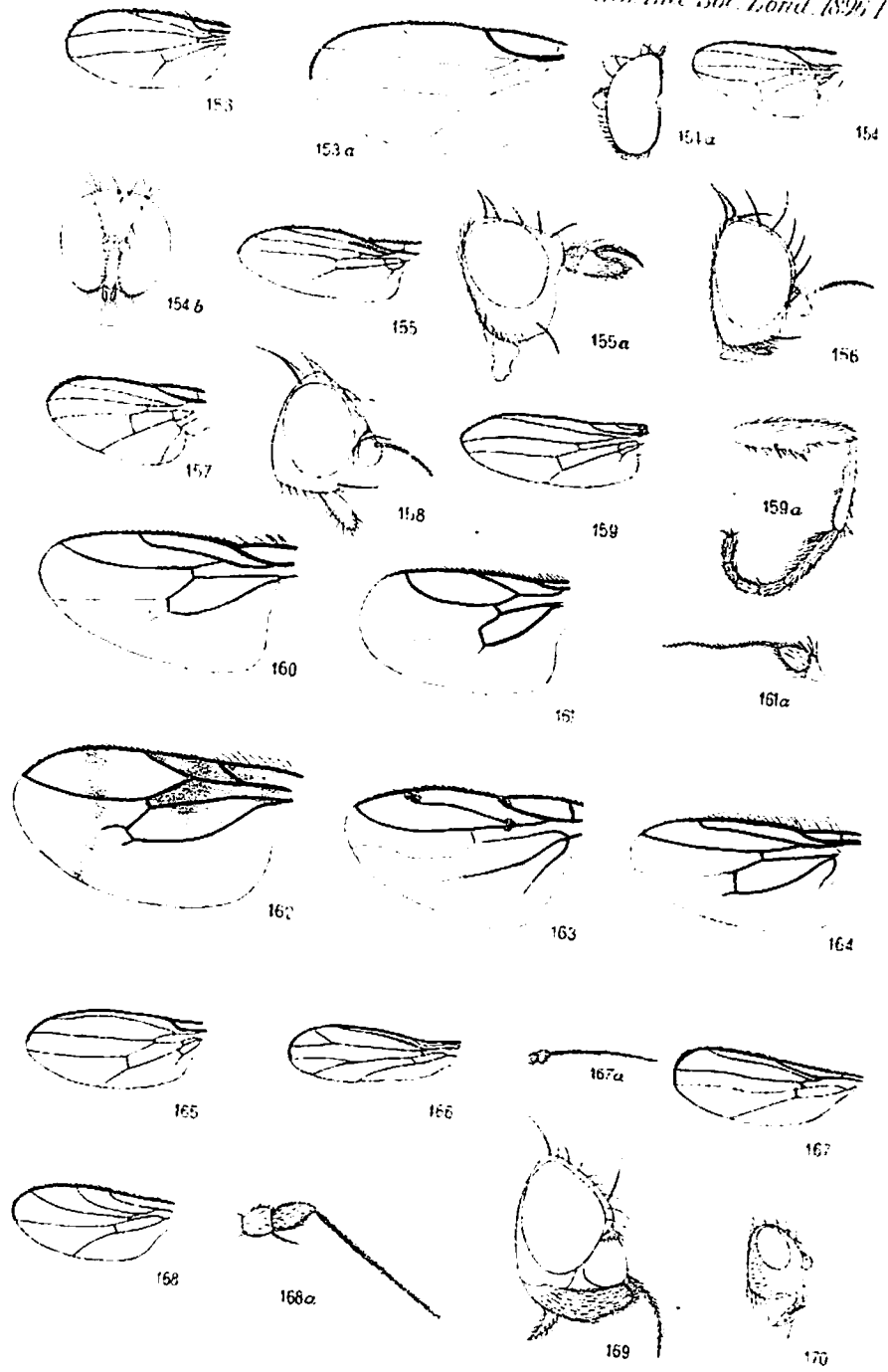
1. *Anthomyza cinerea*, n. sp. (Pl. XIV., fig. 170, head of ♂.)

♂, ♀. Front broad, narrowest opposite the insertion of the antennæ; yellow, the vertical margin more or less cinereous; with four rows of short bristles, reaching nearly to the root of the antennæ. Antennæ yellow, the third joint orbicular and more or less brownish; arista nearly bare. Face and cheeks light yellow. Eyes small, oval. Occiput flattened, cinereous. Thorax black in ground-colour, but thickly covered with grey dust, that on the mesonotum somewhat yellowish; hair of the mesonotum black. bristly, the true bristles, however, confined to the posterior part in the middle. Abdomen black, but more or less thickly whitish pollinose, and with recumbent white hair; first two segments often in part reddish; remaining segments with a more or less distinct yellowish or whitish hind border. Legs yellow, the moderately-thickened femora often infuscated distally; terminal joints of the tarsi more or less brown; bristles on the posterior inferior surface of the front femora not conspicuous. Wings cinereous or smoky hyaline; third section of the costa only a little longer than the fourth; second vein gently curved; penultimate section of the fourth vein only a little longer than the last section of the fifth. Palpi slender, yellow. Length $2\frac{1}{4}$ - $2\frac{3}{4}$ mm.

Twelve specimens. "March. Common on the sandy sea-shore, alighting on the wet, wave-washed sand." The species seems to be allied to *A. gracilis*, Fallen.

EXPLANATION OF PLATE XIV.

- FIG. 153. *Drosophila* species, wing.
153a. *Oscinis triangularis*, wing.
154. *Ophthalmomyia lacteipennis*, wing, 154a ♂ head.
155. *Ceratomyza dorsalis*, wing, 155a head.
156. *Agromyza lateralis*, head.
157. " *xanthophora*, wing.
158. " *innominata*, ♂ head.
159. *Sepsis insularis*, wing, 159a ♂ front leg.
160. *Limosina pumila*, wing.
161. " *perparva*, wing, 161a antenna.
162. " *lugubris*, wing.
163. *Borborus venalicus*, wing.
164. " *illotus*, wing.
165. *Sphaerocera bimaculata*, wing.
166. *Hemerodromia defessa*, wing.
167. *Drapelis apicis*, wing, 167a antenna.
168. " *minuta*, wing, 168a antenna.
169. *Phyllomyza magnipalpis*, ♀ head.
170. *Anthomyza cinerea*, ♂ head.



WEST INDIAN DIPTERA.

Edwin Wilson Cambridge