

NEW MUSCOID FLIES, MAINLY HYSTRICIIDÆ AND PYRRHOSIINÆ FROM THE ANDEAN MONTANYA

By CHARLES H. T. TOWNSEND

(Continued from page 176)

Eutrichophora, new genus.

Approaches both *Vibrissomyia* and *Andinomyia* in general external characters. It is one of the dolichocephalic puna forms from 12,000 feet and over, but the head is only moderately elongate. Female front at vertex twice eye-width, that of male one and two-thirds times same. Long pair of proclinate divergent ocellar bristles. Frontalia very wide, equal in width anteriorly and posteriorly, about width of distance separating vibrissae, same in both sexes. Female with two strong proclinate orbital bristles, male with none. Male with a triple row of bristles on parafrontals, female with a double row inside orbitals. One to three or more facio-orbital bristles, parafacials about as wide as long and clothed with sparse bristly hairs. Second and third antennal joints nearly equal in female; third noticeably longer in male, about one and one-third times second. First aristal joint short, second slightly elongate. Proboscis long and slender, fully one and one-half times head-height; no palpi, neither bristles nor other vestige. Cheeks about three-fourths eye-height in male, a little less than that in female. Epistoma about as long as second antennal joint, normally set at angle of about 45° to plane of clypeus. Third antennal joint quite narrow in both sexes, nearly straight on both front and hind edges, gently rounded apically; arista short, one and one-fourth times third antennal joint. Vibrissae well removed from oral margin, conspicuously longer than peristomal bristles. Eyes bare. Length of peristomal profile not as long as height of occipital, longer than height of facial, equal to length of frontal.

On extracephalic characters the genus differs from description of *Vibrissomyia* by the scutellar bristles being confined to two strong lateral pairs, weaker decussate apical pair, and three or four still weaker discal or subdiscal. Front tarsi of female scarcely widened.

Reproductive habit, probably leaf-larviposition of colored maggots.

Type, *Eutrichophora punensis*, new species.

The frontal, facial, oral, and other characters preclude the possibility of considering this form a subgenus of either *Vibrissomyia* or *Andinomyia*.

Eutrichophora punensis, new species.

Length of body, 11 mm.; of wing, 9 mm. Two males and one female, Pachacayo, about 12,000 feet, March 26 and 27, 1913, on flowers of *Eupatorium* sp.

Head silvery-white, cheek grooves light honey color in direct view, parafrontals blackish under the silvery pollen, frontalia brown except front border which is concolorous with lunula, latter fulvous; antennae and arista blackish-brown, first two antennal joints reddish in female. Occipital hairs gray, all other head hairs black. Thorax, scutellum, abdomen, and legs black, first two thinly silvery pollinose, four faint heavy vittae on mesoscutum; abdomen thinly silvery on all but anal segment, but more noticeable as broad front borders to intermediate segments; anal segment copper-cinereous pollinose. Wings nearly clear, faintly tawny at base; tegulae white.

Type, TD4132 (fly, straplike uterus, black maggots).

Epalpodes equatorialis rimacensis, new subspecies.

Length of body, 8 to 10 mm.; of wing, 6.5 to 9.5 mm. Seven females and ten males, San Cristobal Hill, Lima, about 1,000 feet, September 22 to 30, 1912, on herbage; and two females, Matucana, 8,000 feet, September 8, 1912, on foliage.

Differs from *equatorialis* T. as follows: Parafacials slightly narrower; second abdominal segment without continuous marginal row of macrochaetae. Fifth thoracic vitta hardly distinguishable. Black of third segment is more pronounced, extending outward posteriorly along margin; silvery-golden of anal segment is proportionately broader, diminishing the darker areas, in the Matucana specimens covering nearly whole segment and leaving only a pair of reddish-brown spots on hind margin. The pollen of median vitta spreads narrowly along front margin of second and third segments for a considerable distance in the Matucana specimens, and sometimes in the others but less so. Both scales of the tegulae are normally white, sometimes varying to watery-tawny, the front scale being edged with delicate black hairs.

Type, TD4151 (fly, straplike uterus), San Cristobal Hill.

It is to be noted that the San Cristobal Hill specimens run much smaller and are less conspicuously and extensively pollinose than the Matucana specimens, thus demonstrating the efficiency of circumscribed environment for producing noticeable variations in this region.

Tribe LARVAEVORINI

Peleteria robusta marmorata, new subspecies.

Length of body, 8.5 to 11 mm.; of wing, 6 to 8.5 mm. Chosica, about 2,700 to 3,000 feet, six males and three females, July 21, 1912, on flowers of *Asclepias curassavica*; five females and two males, May 8 and 9, 1913, on flowers of *Mikania* sp.

Head very pale golden pollinose, the occiput and parafrontals with dark ground color showing through, the rest with light ground color, the facial plate more silvery. Frontalia light to dark fulvous, lunula and first two antennal joints fulvous to rufous, third joint and arista brown except sometimes base of former. Palpi brownish-yellow. Occipital pile pale golden; cheek, parafacial, and frontal pile black. Humeri concolorous with parafrontals. Rest of thoracic scutum and scutellum shining blackish with a faint greenish tinge, very thinly covered with a grayish or silvery pollen, the usual vittae very indistinct. Sometimes the scutellum is slightly rufous apically. Abdomen showing a marmorate effect, the anal segment wholly rufous in female but often largely blackish in male, with pale golden pollen; other segments wholly shining black, covered with a thin silvery-white or bluish-white coat. Legs black, the front femora faintly golden to silvery pollinose on outside. Wings faintly infusate, both scales of tegulae white.

Closely allied to *P. robusta* Wd., from which it differs principally in the decidedly darker coloration of parafrontals, scutellum, and wings, and is quite certainly only a subspecies thereof. Belongs in *Peleteria* as restricted, on following characters: Eyes bare, parafacials hairy, two facio-orbital bristles, second antennal joint longer than third, first arista joint elongate, both sexes with orbital bristles, palpi long and filiform, no ocellar bristles, third antennal joint strongly convex on front edge, front tarsi of female conspicuously widened, first abdominal segment with no median macrochaetae but second with median marginal pair.

Pseudoarchytas, new genus.

Differs from *Archytas* in second antennal joint being longer than third; third joint not strongly convex on front edge, the front and hind edges being practically same; palpi more club-shaped, not so flattened apically; arista proportionately much shorter; front tarsi of the female hardly wider than the others. The first arista joint is not elongate, the eyes are bare, parafacials hairy. No facio-orbital bristles, female with orbital bristles

(male unknown). No ocellar bristles. First two abdominal segments sometimes with no macrochaetae whatever, not even at sides, but usually a median marginal pair on second and a very short lateral marginal on both first and second. Long heavy spines on outside of middle tibiae. Cheeks of female about three-fifths of eye-height, front at vertex about one and one-half times eye-width, parafacials nearly or quite as wide as clypeus.

Reproductive habit, probably leaf-larviposition of colored maggots.

Type, *Pseudoarchytas marmorata*, new species.

This genus bears a strong resemblance, both superficially and in most external characters, to the *Cnephalia* group, but is readily distinguished therefrom by the absence of ocellar bristles, while the reproductive characters show that it is allied to *Archytas*.

***Pseudoarchytas marmorata*, new species.**

Length of body, 12 to 13 mm.; of wing, 9.5 to 10 mm. Four females, Chosica, 2,700 to 3,000 feet, two on flowers of *Baccharis* sp., January 20, 1913; two on flowers of *Mikania* sp., May 8 and 9, 1913.

The general coloring of this species is almost the same as that of *Peleteria marmorata*, the only differences being that the thorax is a little more noticeably silvery pollinose, leaving the vittae more distinct; the wings are slightly less infuscate, being practically subhyaline; the parafrontals and head in general are rather more lightly colored, the parafrontals being quite thickly golden pollinose; and the parafacial and cheek pile is golden as well as the occipital. The palpi are fulvous to rufous. The scutellum is rather noticeably reddish except base. The basocostal area of wings is smoky-yellowish.

Type, TD4226 (fly, uterus, colored maggots). The uterus seems to be straplike, but was dissected out in a dried state, unfavorable to positive diagnosis. The characters of the cephalopharyngeal skeleton of the first-stage maggot indicate relationship with *Archytas* rather than with the *Pyrrhosiinae*.

***Archytas andicola*, new species.**

Length of body, 9.5 to 10.5 mm.; of wing, 7.5 to 8.5 mm. Three males and two females, Chosica, about 2,700 feet, May 8 and 9, 1913, on flowers of *Mikania* sp.; one female, Verrugas Canyon, about 5,400 feet, June 25, 1913.

Clypeus silvery-white, cheeks with faint brassy bloom extending on

parafacials, parafrontals dark greenish covered with brassy pollen in both sexes. Frontalia pale fulvous, first two antennal joints and base of third rufous, rest of third joint and arista brown, palpi yellow to fulvous-yellow. All head pile pale brassy except the black hairs of parafrontals. Thorax, pleurae, and scutellum dark greenish, rather shining, brassy pollinose in both sexes; five vittae of usual pattern. Scutellum more or less rufous under the green sheen and the pollen. Abdomen polished metallic blue-black, the anal segment of both sexes with faint silvery or brassy bloom in oblique view but not directly visible. Legs black. Wings lightly infusate, faintly yellowish on base. Both scales of tegulae deep fuscous to fuscous-watery and tawny. Scutellum with three strong marginal macrochaetae on each side, the middle one a little shorter than the others; the weak decussate apical pair present, with the short erect pair in front of them.

Type, TD4149 (fly, straplike uterus, black maggots). The cotypes include TD4146.

This form differs in the scutellar bristles from *A. incasana* T. of the north Peruvian coastal plains, but agrees in this character with the form of *incasana* occurring in the central coastal-foothill region. It may prove to be a subspecies, but is not so indicated at present.

A NEW CUTEREBRA FROM PANAMA

(*Diptera*)

By FREDERICK KNAB

Cuterebra maculosa, new species.

Female: Head black, more or less shining. Frons behind slightly less than the width of one eye, strongly broadening in front, the ocular margins nearly rectilinear, the anterior margin prominently arcuate; surface with a slight median groove and shallowly depressed each side of the middle, raised toward the ocelli and somewhat swollen anteriorly; a broad median zone velvety black and densely clothed with fine but stiff black hairs, laterally and in front subshining and with scattered black hairs inserted in fine punctures; a small white pollinose spot on middle of eye-margin, an elongate spot of the same nature anteriorly, reaching from eye-margin two-thirds way to the antennæ. Lower part of head more strongly shining, deeply and irregularly wrinkled on the cheeks, densely

black-haired about the mouth; facial depression highly polished, with but few hairs on its lower part; a yellowish pollinose transverse streak from near lower end of facialia to eye-margin, a large subquadrate yellowish pollinose spot resting against angle formed by posterior margin of cheek and eye-margin, a pair of very narrow pollinose stripes at sides of clypeal ridge. Mesonotum piceous-black, a bright ferruginous ill-defined spot close to humeri, a whitish line along transverse suture; surface strongly polished anteriorly, more dull posteriorly and with faint gray pruinosity; hairs very fine, black, their insertions minute, rather sparse anteriorly and becoming denser toward scutellum; humeri white-pollinose, lateral margins black-haired, a patch of yellow hair just above wing-insertion. Scutellum black and densely black-haired, some short yellowish bristles low down on posterior margin. Pleuræ black, with patches of brownish yellow hair on propleuræ, mesopleuræ, on posterior coxæ and at wing-insertion. Abdomen dorsally largely steel-blue, at the sides and beneath with yellowish brown pollinose ornamentation, clothed with fine, moderately dense, black hairs; first segment more shining than the others, wholly steel-blue above, narrowly margined behind toward the sides with yellowish pollen, beneath with a few pollinose irrorations; second and third segments blue in the middle, broadly pollinose at the sides and beneath to the narrow ventral zone, this pollinosity with numerous, irregularly distributed steel-blue dots which have a tendency to coalesce; fourth segment wholly brownish pollinose and with steel-blue dots, sparsest on the disk. Legs wholly black, only the hind femora with a fringe of brownish yellow hairs along ventral surface. Wings with the venation normal, hyaline, tinged with brown at base, along costa and very strongly toward the apex, the anal field clear. Alula deep brown and with a fine pale margin. Calypteres black, with short creases and narrow dull brown fringe.

Length: Body about 27 mm., wing 20 mm.

Two females: Ancon, Canal Zone, November 24, 1908 (A. H. Jennings); Cristobal, Canal Zone, August 14, 1911 (Dr. S. A. Davis).

Type, Cat. No. 19126, U. S. Nat. Mus.

The host is unknown, but no doubt will prove to be one of the rodents of this region.

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