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# NEW SPECIES OF PTYCHOPTERIDAE (DIPTERA).

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The Dipterous family Ptychopteridae includes flies that are commonly confused with the true crane-flies, Tipulidae, yet are abundantly distinct. In this paper I describe two new species of *Ptychoptera* that have come to my attention in recent years, the types being preserved in my personal collection.

#### Ptychoptera pendula sp. n.

General coloration of mesonotal praescutum and scutum polished black; scutellum obscure yellow; knobs of halteres infuscated; femora yellow, the tips narrowly blackened; wings with a faint brown tinge, the prearcular and costal portions a little more yellowish; no dark pattern excepting a narrow seam on cord; r-m before fork of Rs; abdomen black, the caudal margins of the segments narrowly pale; hypopygium black; male hypopygium with lateral lobes of tergite short and broad; dististyle prolonged into a slender compressed yellow blade that hangs pendant.

Male.—Length, about 8–9 mm.; wing, 8–8.5 mm.; antenna about 4–4.4 mm.

Female.—Length, about 9 mm.; wing, 9 mm.

Rostrum reddish brown; mouthparts obscure yellow; palpi brown. Antennae (male) about one-half the length of body; scape and pedicel obscure brownish yellow; flagellum black; flagellar segments cylindrical, with short scattered verticils. Head polished black.

Pronotum obscure yellow. Mesonotal praescutum and scutum polished black; scutellum obscure yellow, parascutella darkened; mediotergite black, the surface microscopically alutaceous. Pleura black, gray pruinose; dorsopleural membrane brownish yellow. Halteres yellow, the knobs infuscated. Legs with the coxae yellow, the fore and hind pair narrowly darkened on basal portions; trochanters yellow; femora yellow, the tips narrowly but conspicuously blackened; tibiae yellow, the tips more narrowly blackened; tarsi passing from brown to black. Wings with a faint brownish tinge, the prearcular and costal portions a little more yellowish; no pattern except for a narrow brown seam on cord; veins brown. Macrotrichia at wing-apex involving the cells beyond the general level of the fork of cell  $R_4$ . Venation: r-m connecting

with Rs some distance before fork; fork of  $M_{1+2}$  about one-third to two-fifths as deep as cell  $R_4$ .

Abdomen polished black, the caudal margins of the intermediate segments narrowly pale; hypopygium black, excepting the pendulous lobes of the dististyle which are yellow. Male hypopygium with the lateral tergal lobes short and broad, the apex truncate and with a subacute tooth or lobule at mesal apical angle, this directed mesad; median notch of tergite subcircular or only slightly transverse. Dististyle prolonged into a compressed yellow blade that hangs pendant; at base with a slender arm that terminates in an acute spine, the surface with strong scattered spinous setae; beyond this lobe with a slightly shorter dusky lobe that is slightly expanded at outer end, the surface with abundant setigerous tubercles.

### Habitat.—Colorado.

Holotype, &, Green Mountain Falls, near Manitou, altitude 8300 feet, June 27, 1934 (C. P. Alexander). Allotopotype, Q, June 26, 1934. Paratopotypes, 3 & J, June 26–27, 1934. Paratypes, 2 & J, Monarch Pass, altitude 10,500 feet, July 1, 1934 (C. P. Alexander).

Ptychoptera pendula is generally similar to P. minor Alexander (western United States), agreeing in the small size and general appearance, differing in the coloration of the abdomen and structure of the male hypopygium.

# Ptychoptera lenis coloradensis subsp. n.

As in the typical form, differing in the small size and slight details of structure of the male hypopygium. In the latter feature, the tergite bears a slender glabrous spine shortly before the apex of each lobe lying in the axil of the elongate cylindrical lobule borne on the ventro-mesal face of each tergal lobe.

Male.—Length, about 7–8 mm.; wing, 7–8 mm. Female.—Length, about 8.5–9 mm.; wing, 8–8.5 mm.

Holotype, S, Mount Avery, Gothic, Colorado, altitude 10,000 feet, July 5, 1934 (J. Hallahan). Allotopotype, Q. Paratypes, S Q, Monarch Pass, Colorado, altitude 10,500 feet, July 1, 1934 (C. P. Alexander); Gothic, Colorado, altitude 9500–10,000 feet, July 5–12, 1934 (C. P. Alexander); Salida, Colorado, altitude 7500 feet, June 30, 1934 (C. P. Alexander).

I believe the small Rocky Mountain representative of Ptych-

optera lenis Osten Sacken (Bull. U. S. Geol. Surv., 3: 206–207; 1877) should be considered as subspecifically distinct from the Pacific Coast form. In size and general appearance, the present form is much like *P. pendula* sp. n., but the mesonotum is not as polished black as in the latter, being a dull grayish black with the praescutal striae somewhat more distinct. The male hypopygia of the two species are entirely distinct.

# Ptychoptera madagascariensis sp. n.

General coloration yellow, including the entire thoracic pleura; mesonotal praescutum black, with a conspicuous central pale stripe; scutellum yellow; mediotergite darkened on posterior third; wings subhyaline or weakly yellow tinged, with a narrow dark seam on cord; abdomen chiefly yellow, the caudal margins of the tergites darkened.

Male.—Length, about 8.5–9 mm.; wing, 6.5–7 mm.; antenna, about 4.3–4.5 mm.

Described from alcoholic specimens.

Rostrum and palpi pale yellow. Antennae 15-segmented, relatively long, about one-half the length of body; scape, pedicel and first flagellar segment yellow, the remaining segments brown; flagellar segments nearly cylindrical, with short verticils. Front yellow; posterior sclerites of head brownish black.

Pronotum uniformly yellow. Mesonotal praescutum polished black, with a conspicuous median paler stripe; scutum black, irregularly paler on lateral portions; scutellum yellow, parascutella black; mediotergite yellow on cephalic two-thirds, the posterior portion black. Pleura uniformly yellow. Halteres yellow. Legs with the coxae and trochanters yellow; femora yellow, their apices restrictedly darkened, more conspicuously so in the paratype specimen; tibiae and basitarsi obscure yellow, the tips narrowly darkened; outer tarsal segments brownish black. Wings subhyaline or very faintly yellow tinged; prearcular field and cells C and Sc light yellow; a narrow but distinct brown crossband on cord, extending from origin of Rs to m-cu; veins dark. Macrotrichia of cells relatively sparse, involving cells  $R_2$  to  $M_3$ , inclusive, more or less restricted to outer third or less of the cells. Venation: Rs short, straight, less than r-m;  $R_{2+3}$  running very close to  $R_1$  so the latter cell is unusually narrow, while vein  $R_2$  is reduced to a point and cell  $R_2$  to a narrow strip; r-m and basal section of  $M_3$  in alignment; cell  $R_4$  approximately one and

one-half to two times as deep as cell  $M_1$ ; cell *1st* A wide but relatively short.

Abdomen chiefly yellow, the caudal margins of the tergites darkened; hypopygium brown. Male hypopygium with the tergite profoundly incised medially, each lateral arm bearing a low tubercle beyond midlength. Dististyle long and slender, with a long setiferous lobe at about one-fifth the length and a much shorter and smaller pale lobe on the same face just beyond one-third the length.

Habitat.—Madagascar.

Holotype, alcoholic  $\mathcal{J}$ , Nanisana, 1933 (G. Olsoufieff); through Dr. G. C. Crampton. *Paratopotype*, alcoholic  $\mathcal{J}$ .

This is the first species of *Ptychoptera* to be discovered in the Malagasian Subregion. It is very distinct from the six species hitherto made known from continental Africa, south of the Sahara, these being as follows:

Ptychoptera africana Alexander (1920); Southern Nigeria.

P. camerounensis Alexander (1921); Cameroun.

P. capensis Alexander (1917); Natal to eastern Transvaal.

P. ghesquierei (Collart) (1935); Belgian Congo.

P. hopkinsi Edwards (1932); Uganda.

P. uelensis Alexander (1928); Northern Belgian Congo (Uele).
Besides the above, the only species of the genus from Africa is
the Palaearctic P. surcoufi (Séguy), described in 1925 from
Algeria.

In the present fly, the coloration of the thorax and the venation, especially the very narrow cells R and  $R_2$ , together with the greatly reduced vein  $R_2$ , are distinctive.