

slightly sunk lines between the areas usually occupied by vittæ in other species, the same areas slightly grey pruinose. Fore tarsi without conspicuously long hairs, basal joint three-fifths as long as fore tibia and twice as long as second joint; fourth tarsal joint on all legs distinctly longer than fifth. Wings narrow, costa extending well round apical curve of wing but falling considerably short of reaching apex.

Length, 6 mm.

Tanypus, sp. 1.

A pupa which may be that of the species described in this paper is very similar to that of *monilis* Meigen. It differs in having the thoracic respiratory organs more elongate, about 2.25 as long as thick, paler in colour, and with a short apical rounded projection. All the abdominal segments have a dark brown line at incisions, both on dorsum and venter; the lateral marginal hairs are very fine and number one or two on each segment near base, the seventh segment has three stronger hairs on each side and the eighth has five or six stronger flattened hairs; caudal fins pointed at apices, with four or five flattened hairs on basal half of outer margin and a slight protuberance at apex, giving each fin a sharply pointed appearance.

Length, 7 mm.

Locality: Inland lake at Bernard harbour, Dolphin and Union strait, Northwest Territories, August 10, 1915 (F. Johansen).

Along with this specimen there is one which evidently belongs to the species described as *Psilotanypus* sp. in this paper.

Psilotanypus, sp.?

PUPA.—Testaceous, with the thoracic markings of the enclosed imago showing through.

Head without tubercles between bases of antennæ. Thorax smooth, the respiratory organs like those of *Procladius concinnus* Loew, but comparatively broader (Pl. VII, figs. 10 and 11). Lateral margins of abdominal segments with narrow flat hairs, each side of eighth segment with 5-6 hairs which are regularly spaced; apical processes very similar to those of *Protenches bellus* Loew, but broader and less rounded at apices (Pl. VII, fig. 5).

Length: 7-8 mm.

IMAGO.—Head yellowish testaceous, scape of antennæ fuscous, antennal plumes largely fuscous. Thorax testaceous; dorsum with a centrally divided median, and 2 broad, anteriorly interrupted lateral vittæ; scutellum black on base above; sternopleura entirely fuscous; mesopleura and metapleura including postnotum largely fuscous. Abdomen with each dorsal segment with a fuscous spot on each side posteriorly, the spots becoming progressively larger to apex of abdomen; segments 6, 7 and 8 each with a narrow fuscous band across base. Legs testaceous, the knees narrowly fuscous. Wings apparently with a dark area surrounding the cross-veins.

Fore tarsi similar to those of *occidentalis*, from middle of basal joint to apex of fourth with rather long hairs; mid and hind tibiae and tarsi with moderately long hairs; fourth tarsal joint on all legs longer than fifth. Venation very difficult to make out, but the cross-vein like branch of radius between the first and third branches is not distinguishable, and the cubitus forks about midway from cross-vein to margin of wing; in *occidentalis*, the petiole of cubitus is very short.

Length, 7.5 mm.

Locality: From pond at Bernard harbour, Dolphin and Union strait, Northwest Territories, July 3, 1916 (F. Johansen).