

DESCRIPTIONS OF NORTH AMERICAN TABANIDÆ.

JAMES S. HINE.

***Tabanus annularis* n. sp.**

Eyes hairy. General color nearly black, thorax very hairy and obscurely striped, abdomen dorsally with the posterior margin of each segment narrowly reddish gray, wings hyaline with the veins dark, first two segments of the antenna and tip of the third dark, remainder of the third segment brown with a prominent basal process. Length, 10 to 12 millimeters.

Male—Eyes very distinctly hairy, legs black with the exception of the tibiæ, each of which has the basal half or more reddish brown.

Female—Eyes plainly hairy, front of normal width, sides parallel, frontal callosity as wide as the front and shining black, ocelligerous tubercle present, denuded; otherwise front and the face gray pollinose. Legs, especially the femora, more reddish brown than in the other sex.

Holotype male, one other male and a female in the Ohio State University collection, taken at Ocean Springs, Mississippi, April 18, 1916, by Max Kisluik. The female is a poor specimen of rather diminutive size. Both sexes have the color of the body exactly the same.

The most distinctive character of this species is the elongate basal process of the third antennal segment. In this respect the species agrees with *hirtioculatus* Macquart.

***Tabanus dæcke* n. sp.**

Eyes hairy. Antennæ largely brown, apical two-thirds or more of the third segment black, palpi pale, proboscis black, thorax dark brown without stripes, legs reddish brown, slightly darker in some places than in others, wings brownish hyaline; abdomen brown with a dorsal black stripe and venter darkened towards the apex. Length, 14 millimeters.

Female—Frontal callosity nearly square not so wide as the front, an unconnected line above and ocelligerous tubercle shining black. Otherwise front and the face gray pollinose.

Male—Like the female in coloration, head small, eyes distinctly hairy.

Holotype female from Cape May, New Jersey, June 7, 1904. Allotype from Fort Lee, New Jersey, June 3, both collected by E. Dæcke. One other female taken at Wallops Island, Virginia, June 2, 1913, by W. L. McAtee. In Ohio State University collection.

This species is some like *Tabanus epistatus* O. S., but is smaller the wings are differently colored and the antennæ are shorter. The difference in length of the antenna in the two species is largely in the basal part of the third segment. This is short and wide in *dæcke*i but elongate in *epistatus*. The frontal callosity has a geminate appearance and is not joined to the spot above in *dæcke*i, but is entire and joined to a linear prolongation above in *epistatus*.

***Tabanus petiolatus* n. sp.**

Female—Eyes naked, front rather narrow, frontal callosity dark brown decidedly longer than broad tapering above and continuing into a linear prolongation which reaches nearly to the last fourth of the front; remainder of the front and the face gray pollinose, cheeks with numerous white hairs, palpi pale, proboscis dark, antenna black with just a little brown at the base of the third segment, basal process of the third small and acute. Thorax dark brown above with gray stripes, scutellum dark on the disk but with a pale posterior margin, pleuræ of the thorax and the coxæ gray pollinose and with some white hair. Wing hyaline with a very faint brownish tinge, first posterior cell closed and with a distinct petiole, anterior fork of the third vein angulate near the base and with a very short fork or none. The holotype has this very short fork on one side but none on the other. Front femur, apical third of front tibia and front tarsus black, base of the front tibia pale, middle and hind legs pale brown, femora above and tarsi dark, dorsum of abdomen dark brown, nearly black, with a middorsal row of prominent gray triangles and the incisures gray-margined on each side; venter grayish brown, last segment nearly black and most of the other segments darkened at the middle. Total length, 15 millimeters.

Holotype female and two other females taken from a horse at Lecompte, Louisiana, Augusta 25, 1906. In Ohio State University Collection.

This species suggests *melanoceras*, but is smaller and lighter colored and the first posterior cell is closed and long petiolate.

***Tabanus uniformis* n. sp.**

Eyes naked; general color of the body brown with gray pollinose markings, proboscis dark, palpi brown, antenna brown with more or less darker color on the apical two-thirds of the basal portion of the third segment which bears a short basal prominence. Thorax with rather distinct stripes above, scutellum and pleuræ uniformly gray, legs brown throughout but in some specimens the tips of the tarsi are somewhat darker than the other parts; wings hyaline, cross-veins, furcation of the third vein and in some specimens some of the longitudinal veins margined with rather obscure brown. Abdomen brown above, slightly darker towards the apex, a middorsal row of gray triangles which are

rather small and of uniform size throughout, venter brown darker toward the apex and sparsely gray pollinose. Total length, 19 to 22 millimeters.

Female—Front moderately wide, slightly narrowed below, frontal callosity shining brown, above with a narrow prolongation which is somewhat expanded apically, remainder of the front and the face gray pollinose.

Male—Colored like the female, head of normal size, eyes with small facets below and with an extended area of enlarged facets above, antenna somewhat slenderer than in the other sex.

Holotype female in the Ohio State University collection taken in Jackson County, Kansas, by J. H. Schaffner. Allotype from Missouri. Twenty other specimens from Kansas, Mississippi, Louisiana and Alabama.

The species has been in my collection for several years and for a time it was labeled *molestus*. It appears entirely distinct from *molestus*, however, for it is a browner insect, the femora are not black, the abdominal triangles are generally smaller and of uniform size, and the wings are quite differently colored.

***Tabanus nantuckensis* n. sp.**

Female—Eyes bare, front wide, subcallus denuded and shining black, frontal callosity shining black and decidedly broader than high. Whole body and all the appendages black with the exception of the extreme base of the anterior tibia which is pale, and the wings which have the anterior half or more brown. The division between the brown and black of the wings is not regular but approximately all the posterior cells, the discal cell and the axillary cell are wholly brown, while the basal cells and the anal cell have their apexes narrowly brown. Total length, 20 millimeters.

Holotype female taken by Benjamin Albertsen, of Philadelphia, on Nantucket Island, Massachusetts, August 14, 1916. In Ohio State University collection. I have five other females and have seen two others, all taken on the same island by the same collector.

It is near *atratus* in many respects and might be considered as a variety of that species, but the smaller size and different wings give it a very different appearance.

There is reason to believe that this insect has become isolated on the island for it has not been taken elsewhere so far as I can find. Mr. Albertsen writes that he has taken several specimens through a series of years and has found that they are uniformly the same. With a knowledge of these facts I have chosen to consider this and *atratus* separate species.