

CULEX JUBIFER, A NEW SPECIES OF CULEX  
FROM PANAMA

(Diptera: Culicidae)

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## *Culex (Choeroporpa) jubifer*, new species

Clasper constricted before "head." Slightly distad of constriction on outer aspect is a small conical point. Beyond this the outer aspect of the clasper rises high, dome-like, then produced to a narrow snout-shaped tip, with upturned terminal horn and terminal appendicle. Below the dome-like outer aspect arises a crest of many long setae, extending back to the conical point; the setae toward the end of the clasper are directed upward and forward, those toward the base directed upward and backward, the most basal being recurved. A short, stout eye-seta is on the outer aspect, being preceded by a smaller seta below it.

Sidepiece with large infuscated projecting lobe on outer aspect at apex, bearing 11 or 12 long strong setae from large insertions. On inner aspect, at apex, are two small slender setae.

Outer division of lobe of side-piece a stout column, bearing in order, beginning from the outer aspect, the following appendages: 3 flattened filaments, one longer than the others, with a central thickening; on column below them, on inner aspect, a single long fine seta; next to the filaments a single shorter pointed filament; then a long hook-tipped filament; inserted basad of this on lower aspect of column is a long stout rod-like filament with abruptly widened squarely truncate head.

Inserted on side-piece between the outer division of the lobe of the side-piece and the apex, arising from a separate elevation, is a very large infolded leaf, with large insertion and long thick stem, nearly as long as the leaf itself. The leaf is strongly ribbed, with the outer edge slightly irregular, and with pointed tip.

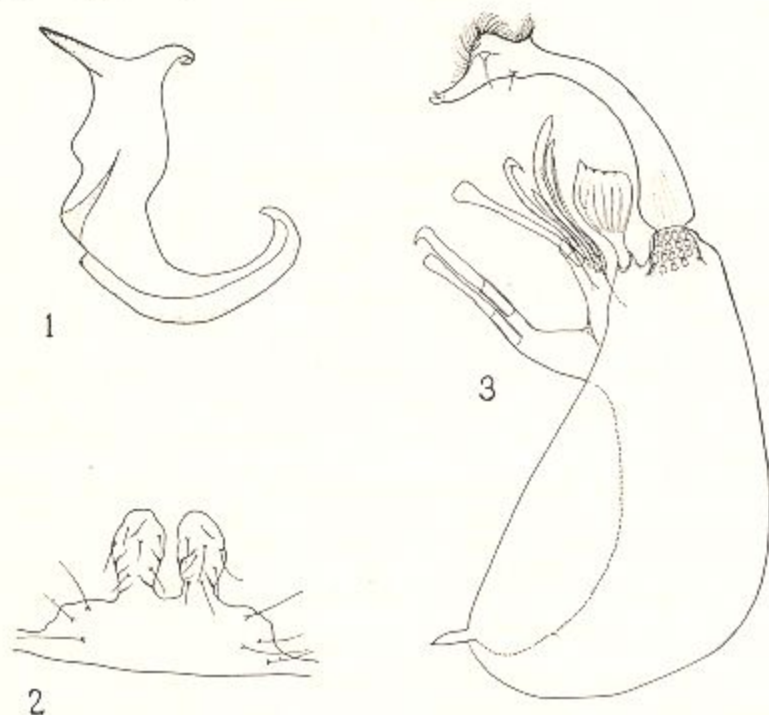
Inner division of lobe of side-piece a long column, bent upwards before tip, and directed laterally. Arising from the tip of the column is a long filament with expanded, slightly hooked tip. Inserted below this is a second filament with knobbed tip, not quite reaching tip of first filament. A patch of exceedingly fine pilosity is on inner aspect of base of column.

Tenth sternites with 7 to 9 strong curved teeth.

Inner paired plate of mesosome is T-shaped, the two arms inclined slightly upwards, forming an obtuse angle. Ventral arm flattened, with sharp point directed laterally. Dorsal arm terminating in a long hooked tip, also directed laterally.

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Ninth tergites distorted in mount, but apparently a pair of short, infuscated, wrinkled columns with slightly expanded tips, bearing sparse long setae except at the tips. These setae are unusual in that they are apparently all directed basad.



*Culex jubifer*, n. sp., male

1, Inner mesosomal plate. 2, Ninth tergite. 3, Side-piece of male terminalia.

*Type*: One male, the terminalia in a balsam mount. The material has been deposited in the U. S. National Museum.

The unique specimen was taken by sweeping with a net in Mojingo Swamp, between the lower Chagres River and Limon Bay, Canal Zone, by the junior author, in August, 1932.

The affinities of this species are difficult to determine. By the unique clasper, from which it takes its name (*juba*, the crest of a helmet), it is a *Choeroporpa*; the ridged leaf reminds one of those of *Melanoconion*; the 9th tergites resemble somewhat those of *Culex opisthopus* Komp, but the prominent setigerous lobe at the apex of the sidepiece and the peculiar club-like filaments of the inner division of the lobe of the side-piece are not similar to those of any known American *Culex*.