A NEW NORTH AMERICAN SPECIES OF THE GENUS 
CLUZOBRA (DIPTERA: MYCETOPHILIDAE)1

Edward I. Coher2

ABSTRACT: The first North American species of the principally Neotropical genus Cluzobra is described from a short series of males and females taken in Ohio.

Twenty-nine species of the sciophiline genus Cluzobra have been described, all from the Neotropical Region. Matile (1996) described twenty new species and reviewed nine species described by Lane (1948, 1956, 1959, 1960) and Edwards (1934, 1940, 1941). Excluding two questionable records of females, nineteen species are known from a single country and ten from a single collection.

Only 2 species, C. aitkeni and C. spinulifera are reported as being widely distributed, although C. binocellaris and C. lanei would also fall into this category if collections from Mexico for the former and Nicaragua for the latter are confirmed by capture of males. Except for C. lanei, the other three species have been collected virtually year-round.

Cluzobra Edwards, 1940

Type species: Acnemia binocellaris Edwards, 1934

Edwards, 1940. Rev. Entomol. 11:463.

Cluzobra has been characterized in great detail by Matile (1996). Briefly, these sciophiline flies are distinguished by wings with Sc2 absent, Sc ending in C, and Cu simple.

Cluzobra antennulata Coher, NEW SPECIES

Habitus: a moderately slim, orange-yellow fly.

Male. Head (Fig. 1) with vertex and occiput light red-brown, vertex light between antennae: each ocellus about its diameter from the eye with an irregular row of short setae between them; frons yellowish, narrow, 5:2 and setose: clypeus yellowish, setose; palpus brown, length of apical segment subequal to basal three segments; antenna (2+14) with scape and pedicel and first two flagellar segments cream-colored with base of darker distal segments narrowly infuscated giving antenna a ringed appearance; scape and pedicel with strong dorsal apical setae; ventral apical setae of pedicel short and stout. Thorax with mesonotum yellowish with brown acrostichal stripes from midway

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Division of Natural Sciences, Southampton College, Southampton, N.Y. 11968.

that are contiguous anteriorly with broad humeral stripes, dorsocentral stripe narrow or absent; pleura variably pigmented yellowish or brownish except katepisternite that is always darker but light ventrally; pleurotergite with a pair of long central setae; scutellum and postnotum concolorous with pleura; long scutellar setae in a row; posterior postnotum with an irregular row of large, long setae. 

Wing: (3.0-3.2mm); patterned, (Fig. 2); 1stA barely divergent from Cu and ending beyond Fm as a line of setae; 2dA nearly obsolete, represented by a row of setae and paralleling basal posterior wing margin; fully trichiate. Halter with stem yellow, knob variously pigmented but at least partially darkened. Legs with coxae brownish, anterior forecoxa, distal 2/3 of midcoxa, lateral apical fourth of hindcoxa setose, hindcoxa with a single long basal posterior seta; femora lighter with tibiae and tarsi yellowish; tibial spurs long, foretibia with an apical comb; foretibia/ forebasitarsus/ tarsus 2, 6/8/5. Abdomen orange yellow, very setiferous; TVIII (Fig. 3): SVIII (Fig. 4). Terminalia: (Fig. 5, dorsal).

Female. Description as for male. Terminalia: The paired cerci (fig. 6,c, lateral, setae omitted), are borne on tergite X (fig. 6, TX, dorsal,) which is bare and lightly pigmented.

Allotype. Female. Same data as the holotype.
Paratypotypes: 1 male and 1 female.

DISCUSSION

C. antennulata is most closely related to the Brazilian brunneicauda Matile, 1996 from which the male of the new species may be easily distinguished by the form of its dark broadly bifid internal style and lack of median dorsal styles. The shape of the female cercus is closest to that of C. annulicornis as figured by Matile (loc. cit.), but with the apex of the basal cercal segment distinctly narrowed in C. antennulata.

Vockeroth (1981), in a key to genera of the Mycetophilidae, noted a Cluzobra from Louisiana. Inquiries concerning this material have been to no avail; its identity cannot presently be determined. Thus, antennulata is the first Nearctic species of Cluzobra to be described.

Biology: Limited capture data suggest that October to February may be the peak activity period for many of the continental South American species although aitkeni, binocellaris and spinulifera have been collected virtually throughout the year. Nothing is known of the bionomics.

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LITERATURE CITED


Plate. *Cluzobra antennulata* n.sp. Fig. 1. Head, lateral view. Fig. 2. Wing. Fig. 3. Tergite VIII, male. Fig. 4. SVIII, male. Fig. 5. Male terminalia, dorsal aspect. Fig. 6. Cercus (c, lateral) and tergite X (TX, dorsal), female.


