

1955

NEOTROPICAL MYCETOPHILA MEIGEN EXCLUDING THOSE OF THE CHILEAN SUBREGION.

(DIPTERA : MYCETOPHILIDAE.)\*

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With 22 Text-figures.

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I. INTRODUCTION AND ACKNOWLEDGMENTS.

THE study of subgeneric concepts in this genus was undertaken under the same conditions as those mentioned in my paper on *Epicrypta*.<sup>1</sup> Once again I wish to express my indebtedness to Mr. Paul Freeman of the British Museum (Nat. Hist.) for his inestimable help.

The species studied are grouped under three subgenera, of which two are considered new. I am also able to state that all the species treated by Freeman (1951) belong to *Mycetophila* "sensu lato." A number of his species seem to belong to *Abmyceta* subgen. n. but none to my other new subgenus, *Oromyceta*.

Two other subgenera are considered as valid and are found in the Nearctic region; they are *Mycothera* Winnertz, 1863 and *Opistholoba* Mik, 1891.

Part of the material studied comprises a loan made by the British Museum (Nat. Hist.). These specimens are from Brazil, State of Santa Catarina, Nova Teutonia, and were collected by Mr. Fritz Plaumann. Holotypes described from this material are to be returned to the above Institution; paratypes have been retained in our collection, as mentioned in this paper. Most specific names are given from American tribes of Indians.

I take great pleasure in expressing my thanks to the Trustees of the British Museum (Nat. Hist.) and the Instituto Miguel Lillo of Tucuman, Argentina,

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<sup>1</sup> Revision of the genus *Epicrypta* Winnertz, 1863, in the Neotropical Region. 1954. *Rev. Brasil Ent., S. Paulo* 2: 111-138.

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for the loan of material. The drawings which illustrate this paper were made by Mr. E. B. Ferraz with the aid of a "camera lucida".

A key for the new subgenera created here is given below:

## II. KEY FOR THE SEPARATION OF THE GENERA *Abomyia* AND *Mycetophila*.

- 1 Veins of posterior fork converging towards apex, the upper one usually curved. Outer surface of mid and hind tibiae with the setulae distributed in regular rows . . . . . *Mycetophila* Meigen 2
- Veins of posterior fork straight and diverging towards apex, the upper vein straight. Outer surface of mid and hind tibiae with the setulae irregularly distributed. Pteropleurite phalanx-shaped. Mid tibia always bearing ventral setae . . . . . *Epicypa* Winnertz

## III. KEY TO THE SUBGENERA OF *Mycetophila*.

- 2 Mid tibia with ventral setae present or absent: when present they are weak and shorter than the internals (except in *M. venenata* which has a single very long ventral seta). Male genitalia with the fused lobes of basistyle hollowed out so as to receive the elongate and movable lobe of dististyle . . . . . 3
- Mid tibia with one short and two long ventral setae (except in a few cases when a single ventral seta is present). Male genitalia with the fused lobes of basistyles not hollowed out. Dististyles apical . . . *Abmyceta* subgen. n.
- 3 Ventral setae absent. Lower vein of posterior fork not abbreviated so that it reaches the wing margin. Katepisternite slightly smaller in area than the anepisternite. Pteropleurite strap-like and not constricted mesially . . . . . *Mycetophila* s. str.
- Ventral setae present but weaker than the internals. Lower vein of the posterior fork abbreviated at apex and far from the wing margin. Pteropleurite phalanx-shaped . . . . . *Oromyceta* subgen. n.

## IV. THE SPECIES OF *Mycetophila* MEIGEN.

### *Mycetophila* Meigen, 1803.

- Fungivora* Meigen ? 1800, *Nouv. Class. Mouches*: 16. No type or species.  
*Mycetophila* Meigen, 1803, *Mag. Insektenk. Müllers* 2: 263. Meigen, 1804, *Class.* 1: 90  
 Type *Tipula fungorum* De Geer, 1776.  
 Edwards, 1925, *Trans. ent. Soc. Lond.* 1925: 631.  
 Freeman, 1951, *Dipt. Patagonia & S. Chile* 1 (3): 97-131.  
*Fungivora* Shaw, 1952, *Dipt. Connecticut* 30 (5): 200, 204.  
*Mycetophila* Lane, 1952, *Dusenla* 3 (8): 421.

The delimitations of this subgenus are those already given in the above mentioned publication.

### *Mycetophila* (*Mycetophila*) *conjecta* Freeman, 1951.

*Mycetophila* Freeman, 1951, *Dipt. Patagonia & S. Chile* 1 (3): 117.

Since 1949 I have had in my possession a peculiar female specimen from BRAZIL: State of S. Paulo, Campos do Jordão 1600-1700 m. alt., viii. 1949 (*J. Lane*).

<sup>1</sup> The proportions are the same. Figs. 1-6 show both lobes of dististyle. Figs. 7-22 show basistyles connected with the dististyles on one side: on the right upper corner the mesosome is represented and on the lower one the ninth tergite.

I am now able to identify it as the above species and find that it agrees with the original description. The finding of a species in Brazil hitherto restricted to the Chilean subregion is extraordinary.

### **Oromyceta** subgen. n.

Wing with long Sc. Posterior fork beyond the anterior one. Lower vein of posterior fork not reaching the wing margin and quite abbreviated. Pteropleurite phalanx-shaped; katepisternite half the area of anepisternite. Mid tibia with two to five weak and displaced ventral setae except in *M. arecunai* sp. n., which has one very long ventral seta and also subdorsal setae on mid and hind tibiae. Tibial setulae in rows.

Genitalia of the general type of *Mycetophila* s. str., but the longer lobe of dististyle shortened. Mesosome generally broader. Ninth tergites shorter than the height of basistyles.

*Note.*—*M. arecunai* sp. n., in addition to peculiarities in the arrangement of the tibial setae, has the dististyle with the general appearance of two superimposed triangles. Probably this species belongs to yet another subgenus, but it is placed here for the present.

Type species *Mycetophila (Oromyceta) javaesi* sp. n. described below.

#### Key to the species of the Subgenus *Oromyceta*.

- |   |   |   |
|---|---|---|
| 1 | Mesial wing spot not invading the costal cell . . . . .   | 2 |
|   | Mesial wing spot invading the costal cell; halteres with yellowish stem and blackish knob . . . . . <b>wygodzinskyi</b> (Lane, 1947).                   |   |
| 2 | Posterior fork with the branches about as long as its stem . . . . .  | 3 |
|   | Posterior fork with the branches half the length of its stem; halteres yellowish . . . . . <b>arecunai</b> sp. n.                                       |   |
| 3 | Veins of anterior fork reaching wing margin . . . . .   | 4 |
|   | Veins of anterior and posterior fork not reaching wing margin; halteres with yellow stem and blackish knob . . . . . <b>ferrazi</b> sp. n.              |   |
| 4 | Halteres with yellowish stem and blackish knob; mid and hind tibiae darkened at apex . . . . .  | 5 |
|   | Halteres yellowish; mesial wing spot oblong and more than three times as long as wide; mid and hind tibiae yellowish . . . . . <b>tucunensis</b> sp. n. |   |
| 5 | Wing spot about twice as long as wide; male genitalia with the short plate of dististyle bearing numerous spicules . . . . . <b>javaesi</b> sp. n.      |   |
|   | Wing spot nearly quadrate; short plate of dististyle only with three differentiated setae on its upper margin . . . . . <b>saltanensis</b> sp. n.       |   |

#### *Mycetophila (Oromyceta) wygodzinskyi* (Lane, 1947).

*Delopsis wygodzinskyi*, Lane, 1947, *Rev. Ent., Rio de J.* 18 : 457.

The ventral setae are weaker and shorter than the internal ones and could not be seen in one specimen. Fig. 1 illustrates the details of the dististyle of the male genitalia.

*Distribution.*—COSTA RICA : San Mateo, Higuato, no date (*Pablo Schild*); BRAZIL : State of Santa Catarina, Nova Teutonia, several dates (*Fritz Plauermann*); ARGENTINA : Salta, Aguaray, ii. 1950 (*H. Golbach*).

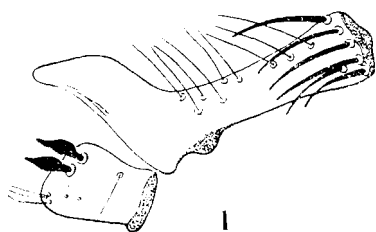


FIG. 1.—*Mycetophila (Oromyceta) wygodzinskiyi* (Lane, 1947). Dististyle.

***Mycetophila (Oromyceta) arecunai* sp. n.**

*Male*.—*Head*: Palpus yellowish, mouth parts and clypeus brown. Antenna with scape, torus and several basal segments yellowish, the rest darkened. Occiput dark brown in front, lighter behind.

*Thorax*: Mesonotum yellowish, with golden hairs and dark setae. Scutellum yellowish. Pleura yellowish, the upper and lower margin of anepisternite with brown marks; hypopleurite with posterior hairs.

*Wing* with a diluted mesial spot, the apex darkened. Posterior fork with both veins free and half the length of its stem vein. Halteres yellowish.

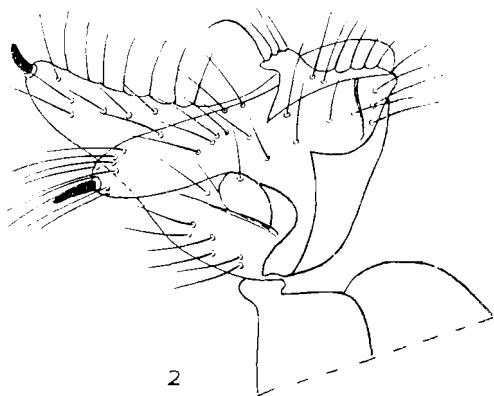


FIG. 2.—*Mycetophila (Oromyceta) arecunai* sp. n. Dististyle.

*Legs* yellowish, the hind femur dorsally darkened apically. Mid tibia with 5 dorsal, 4 subdorsal, 3 external, 1 very long ventral and 2 long and 2 short internal setae. Hind tibia with 5 dorsal, 3/4 subdorsal and 6 external setae.

*Abdomen* not preserved.

*Genitalia*: Basistyles with the lobes fused, subquadrate. Dististyles as in fig. 2. Mesosome nearly rounded, the lateral portions higher than the middle one, which is rounded at apex. Ninth tergites subtriangular and shorter than the length of basistyle.

*Female*.—Unknown.

Holotype male, BRAZIL: State of S. Paulo, Salesópolis, Boracéia, viii. 1947 (J. Lane). Registered in our collections under number 9.049.

***Mycetophila (Oromyceta) ferrazi* sp. n.**

*Male*.—*Head*: Mouth parts, palpus and clypeus light brown. Antenna with scape, torus and basal flagellar segments yellowish, the rest darkened. Occiput brown.

*Thorax*: Mesonotum yellowish, slightly darker in the middle in front; covered with golden hairs and dark setae. Scutellum yellowish. Pleura yellowish, posterior margin of pleurotergite and hypopleurite brown, the hypopleurite with posterior setae.

*Wing* with a very diluted mesial spot, the apex slightly darkened anteriorly. Posterior fork with the veins slightly shorter than its stem. Veins of both forks not reaching wing margin. Halteres with only a darkened portion at base of knob, the rest yellowish.

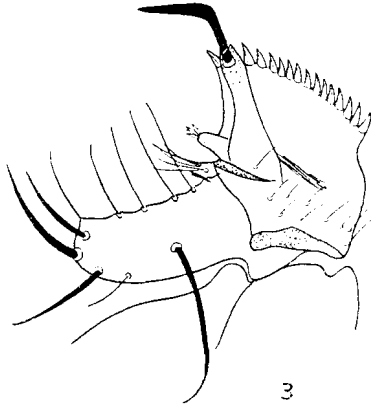


FIG. 3.—*Mycetophila (Oromyceta) ferrazi* sp. n. Dististyle.

*Legs* yellowish, mid and hind femora darkened dorsally. Mid tibia with 5 dorsal, 2 external, 2 ventral and 3/4 internal setae. Hind tibia with 5 dorsal, 8 external and 3/4 internal setae.

*Abdomen* not preserved.

*Genitalia*: Basistyles with fused lobe, subquadrate, upper margin with a row of differentiated setae. Dististyle as in fig. 3. Mesosome broad, the lateral portions ending in somewhat pointed structures, the mesial one rounded. Ninth tergites subtriangular and shorter than length of basistyles.

*Female*.—Unknown.

Holotype male, BRAZIL: State of S. Paulo, Salesópolis, Boracéia, xi.1947 (*J. Lane*). Registered in our collections under number 8.026.

*Note*.—This species is named in honour of my old friend Mr. E. B. Ferraz of the Faculdade de Higiene e Saúde Pública.

***Mycetophila (Oromyceta) javaesi* sp. n.**

*Male*.—*Head*: Palpus and mouth parts light brown. Antenna with scape, torus and first seven or eight flagellar segments yellow, the rest blackish. Occiput yellowish-brown, slightly darker in the middle.

*Thorax*: Mesonotum yellow or light brown, lighter on the sides; with two small prescutellar spots; covered with yellowish hairs and very small setae. Scutellum brownish, lighter in the middle. Pleura brown; base of pteropleurite, part of katepisternite and hypopleurite yellowish; hypopleurite with hairs.

*Wing* with a dark brown spot which is from one and a half to twice as long as wide and from Rs to base of anterior fork. Posterior fork about as long as its stem vein; lower vein of posterior fork shortened and far from wing margin. Halteres with yellow stem and blackish knob.

*Legs* yellowish except apex of hind femur, mid and hind tibiae which are dark brown. Mid tibia with 5 dorsal, 3 external, 5 small ventral, 2 long and 1 short internal setae. Hind tibia with 5 dorsal, 6 external and a row of about 8 internal setae.

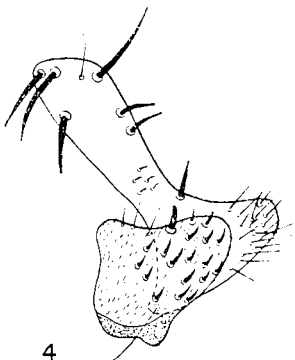


FIG. 4.—*Mycetophila (Oromyceta) jaraesi* sp. n. Dististyle.

*Abdomen* blackish with apical lighter bands and yellow ventral marks on segments III and IV.

*Genitalia* yellowish. Basistyles with the lobes fused, longer than broad. Dististyles as in fig. 4. Mesosome ovate, the lateral portions higher than the middle one, which is rounded at apex. Ninth tergites subtriangular and shorter than the length of basistyles.

*Female*.—Similar to the male. Cerci small and slender.

Holotype male; allotype female; paratypes, seventeen males and fourteen females. Seven paratypes retained and registered under number 9.400 to 9.406. Holotype, allotype and thirteen paratypes returned to the British Museum (Nat. Hist.). One paratype returned to the United States National Museum, Washington, D.C.

*Type locality*.—BRAZIL: State of Santa Catarina, Nova Teutonia, v. vi. viii. 1938 (*Fritz Plavmann*); one paratype from the State of Rio de Janeiro: Terezópolis, 1940 (*Travassos & Freitas*); one paratype from COSTA RICA: San Mateo, no date (*Pablo Schild*).

#### ***Mycetophila (Oromyceta) saltanensis* sp. n.**

*Male and female*.—Similar to *M. jaraesi* sp. n. except that the katapisternite seems to be much more extensively yellow and the wing spot is nearly quadrate.

*Male genitalia*: Basistyles with the lobes fused and broader than long. Dististyle as in fig. 5. Mesosome broad, the mesial portion ending in a broad and round head, the lateral ones surpassing the mesial portion. Ninth tergites about two-thirds as long as the length of basistyles.

Holotype male; allotype female; paratypes, three males. Two paratypes to be retained in our collections under numbers 10.195 and 10.196. Holotype,

allotype and one paratype to be returned to the Instituto Miguel Lillo, Tucuman, Argentina.

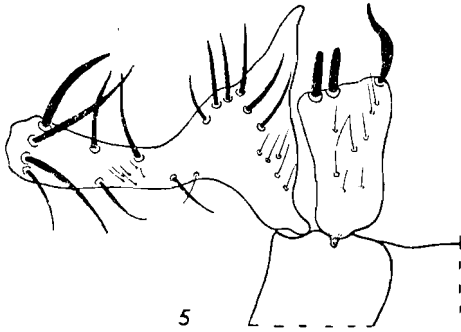


FIG. 5.—*Mycetophila (Oromyceta) saltanensis* sp. n. Dististyle.

*Type locality*.—Holotype from ARGENTINA: Salta, Urundel, ii.1950; allotype from Tartagal, ii.1950; paratypes from Aguaray, ii.1950 (*H. Golbach*).

***Mycetophila (Oromyceta) tucunensis* sp. n.**

*Male*.—*Head*: Mouth parts and palpus yellowish-brown. Antenna with scape and torus yellowish as well as base of second and third flagellar segments, the rest darkened. Occiput yellowish-brown with a slight indication of a mesial darker line.

*Thorax*: Mesonotum yellowish-brown with golden longish hairs and setae. Scutellum brown. Pleura brown except base of katapisternite and pteropleurite; hypopleurite brown with a few hairs.

*Wing* yellowish anteriorly with a large dark brown mesial spot which is oblong and irregular at base and from Rs to base of anterior fork. Posterior fork large and nearly as long as its petiole, the lower branch quite distant from wing margin. Halteres yellowish.

*Legs* yellowish. Mid tibia with 4 dorsal, 3 external, 4 ventral and 2 long and 1 short internal setae. Hind legs missing.

*Abdomen* blackish with broad yellowish bands on segments III and IV.

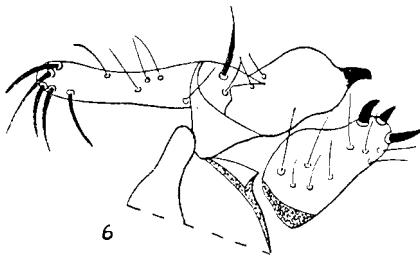


FIG. 6.—*Mycetophila (Oromyceta) tucunensis* sp. n. Dististyle.

*Genitalia*: Basistyles with the lobes fused and broader than long. Dististyles as in fig. 6. Mesosome broad, the mesial portion ending in a broad round head, the lateral portions surpassing the mesial one. Ninth tergites about two-thirds the length of basistyles.

*F. male*.—Similar to male. Posterior tibia with 4 long dorsal, 5 long and one short external and a row of 6/7 internal setae. Cerci slender, brown.

Types.—Holotype male; allotype female, BRAZIL: State of Santa Catarina, Nova Teutonia, vi, vii, 1938 (*Fritz Plaumann*). In British Museum (Nat. Hist.).

#### **Abmyceta** subgen. n.

Wing with short Sc. : posterior fork beyond the anterior one, petiole of M equal to r-m.

Postnotum elongate or quadrate, setose. Anterior pronotum with 2/3 setae. Anepisternite quadrate or longer than broad, setose or setose and setulose, with 2/4 setae. Katepisternite nude. Pteropleurite generally strap-like, occasionally phalanx-shaped, with 3/4 stout setae on its upper margin. Hypopleurite setose. Mesonotum dull, setose and setulose.

Mid and hind tibiae with the setulae in rows. Subdorsal setae absent (except in *M. rufa* (Lane, 1948). Mid tibia with 1-2 or 2 ventral setae (in *M. forattinii* sp. n., *M. uboyasi* sp. n. and *M. panensis* sp. n. with a single stout seta).

Male genitalia with the lobes of basistyles fused and usually broader than long. Dististyle formed by several lobes with differentiated setae. Ninth tergites usually shorter than the length of basistyle.

Type species *Mycetophila (Abmyceta) galibisi* sp. n., described below.

The following known species are included in this subgenus: *M. barrettoi* (Lane, 1947), *M. borgmeieri* Edwards, 1932, *M. humboldti* (Lane, 1948), *M. pluripunctata* (Lane, 1948), *M. rufa* (Lane, 1948), *M. tapinirai*, n. n. (for *M. confusa* Lane, 1948), *M. tarassosi* (Lane, 1948) and *M. winnerti* (Lane, 1948).

The following new species, which are described in this paper, are also included: *caribai*, *caripunai*, *cayensis*, *denuetri*, *examunensis*, *forattinii*, *galibisi*, *gutensis*, *jarii*, *kenasensis*, *jurauensis*, *pruensis*, *vaicensis*, *uboyasi*, *gurimauesi* and *zamasensis*.

#### Key to the Species of the Subgenus *Abmyceta*.

- |   |  |                                   |
|---|--|-----------------------------------|
| 1 | Hind tibia without subdorsal setae . . . . .   | 2                                 |
|   | Hind tibia with subdorsal setae; mesonotum reddish; wing with two marks, the mesial one invading the costal cell . . . . .   | <b>rufa</b> (Lane, 1948)          |
| 2 | Wing unicolorous . . . . .   | 3                                 |
|   | Wing with one or two markings . . . . .  | 13                                |
| 3 | Mesonotum marked with spots or stripes . . . . .   | 5                                 |
|   | Mesonotum without marks, at least over most of the disk . . . . .  | 4                                 |
| 4 | Mesonotum blackish, only the posterior angle whitish; halteres with whitish stem and blackish knob . . . . .   | <b>forattinii</b> sp. n.          |
|   | Mesonotum yellowish and without distinct marks; halteres yellow . . . . .  | <b>caribai</b> sp. n.             |
|   |  | <b>caripunai</b> sp. n.           |
|   |  | <b>cayensis</b> sp. n.            |
| 5 | Mesonotum with spots or lines but without large marks . . . . .  | 6                                 |
|   | Mesonotum with three large marks over most of the disk . . . . .   | 9                                 |
| 6 | Costal vein not beyond Rs. : mesonotum with a large prescutellar black mark but without spots . . . . .  | 7                                 |
|   | Costal vein beyond Rs. : mesonotum with eight blackish spots besides the longitudinal line (the anterior spots may fuse); occiput crossed by a broad mesial line; mid tibia with 2 ventral, 3 external, and 1 internal setae . . . . . | <b>pluripunctata</b> (Lane, 1948) |



- 7 Prescutellar mark not U-shaped . . . . . 8  
 Prescutellar mark U-shaped, blackish; mesonotal pattern indistinct  
*travassosi* (Lane, 1948).
- 8 Mesonotum with a longitudinal line which traverses the disk and ends  
 in the large prescutellar spot . . . . . *humboldtii* (Lane, 1948).  
 Mesonotum with the pattern formed by three indistinct colours  
*barrettoii* (Lane, 1947)
- 9 Mesonotal marks blackish . . . . . 10  
 Mesonotal marks brown, distinctly separated by the yellowish ground  
 colour . . . . . 11
- 10 Mesonotal marks large, narrowly separated, ground colour yellowish:  
 mid tibia with 2 stout ventral setae . . . . . *borgmeieri* (Edwards, 1932)  
 Mesonotal marks narrower, ground colour greyish; mid tibia with 1  
 weak seta . . . . . *punensis* sp. n.
- 11 Hypopleurite brownish . . . . . 12  
 Hypopleurite yellow, only the posterior portion brownish; scutellum  
 with a median dark stripe, the rest yellowish . . . . . *xamasensis* sp. n.
- 12 Hind coxa with a basal black mark . . . . . *tapinirai* n. n.  
 Hind coxa completely yellowish . . . . . *zurimauesi* sp. n.
- 13 Wing with a single mesial spot . . . . . 14  
 Wing with an apical or subapical mark besides the mesial spot . . . . . 17
- 14 Mesonotum with markings . . . . . 15  
 Mesonotum brownish-yellow; femora unicolorous; mid tibia with  
 3 ventral, 3 external and 4/5 internal setae . . . . . *galibisi* sp. n.
- 15 Mesonotum with three blackish lines over a brown ground colour, the  
 sides yellowish-white; mid and hind femora slightly darker at apex;  
 mid tibia with 1 ventral, 2 external and 3 internal setae . . . . . *uboyasi* sp. n.  
 Not so coloured . . . . . 16
- 16 Mesonotum dark brown, whitish at the sides, with dark marks on  
 prescutellar region and over root of wing; hind femur darkened  
 dorsally; mid tibia with 5 dorsal, 3/4 ventral and 3 internal setae  
*winnertzi* (Lane 1948)  
 Mesonotum dark brown anteriorly and whitish posteriorly; hind femur  
 darkened dorsally; mid tibia with 2 ventral, 3 external and 3 internal  
 setae . . . . . *uaicensis* sp. n.
- 17 Mesonotum not marked . . . . . 18  
 Mesonotum with a cuneiform yellow anterior mark, a blackish spot over  
 root of wing, two darker stripes on prescutellar region; mid and  
 hind coxae darkened at apex; mid and hind femora darkened at  
 apex; mid tibia with 2 ventral, 4 external and 2 internal long setae  
*jurii* sp. n.
- 18 Wing with an apical stripe . . . . . 19  
 Wing without a stripe but with an apical spot or shading . . . . . 20
- 19 Mesial spot invading the costal cell; mid tibia with 1 + 2 ventral,  
 3 external and 3 internal setae; the veins of both forks not reaching  
 the wing margin . . . . . *demacuri* sp. n.  
 Mesial spot not invading the costal cell; mid tibia with 2 ventral, 3  
 external and 5 internal setae; the veins of both forks reaching the  
 wing margin . . . . . *eramanensis* sp. n.
- 20 Mesonotum brown . . . . . 21  
 Mesonotum blackish; wing spot distinct and not reaching the upper  
 vein of anterior fork . . . . . *kunasensis* sp. n.

- 21 Two dark spots on preantellar region: wing with only an apical shading . . . . . *jurunensis* sp. n.  
 Preantellar region without spots: wing with a definite apical mark . . . . . *guatensis* sp. n.

*Mycetophila (Abmyceta) borgmeieri* Edwards, 1932.

*Mycetophila* Edwards, 1932, *Rev. Ent., S. Paulo* 3: 149.

Lane, 1948, *ibid.* 19: 258.

*Additional distribution*.—BRAZIL: State of Santa Catarina, Nova Teutonia, several dates (*Fritz Plutmann*). Numerous specimens.

*Mycetophila (Abmyceta) caribai* sp. n.

*Male*.—*Head*: Mouth parts and palpus brown. Antenna with scape, torus and first two segments yellowish, succeeding segments yellow at base, dark at apex, terminal segments darkened. Occiput yellowish-brown.

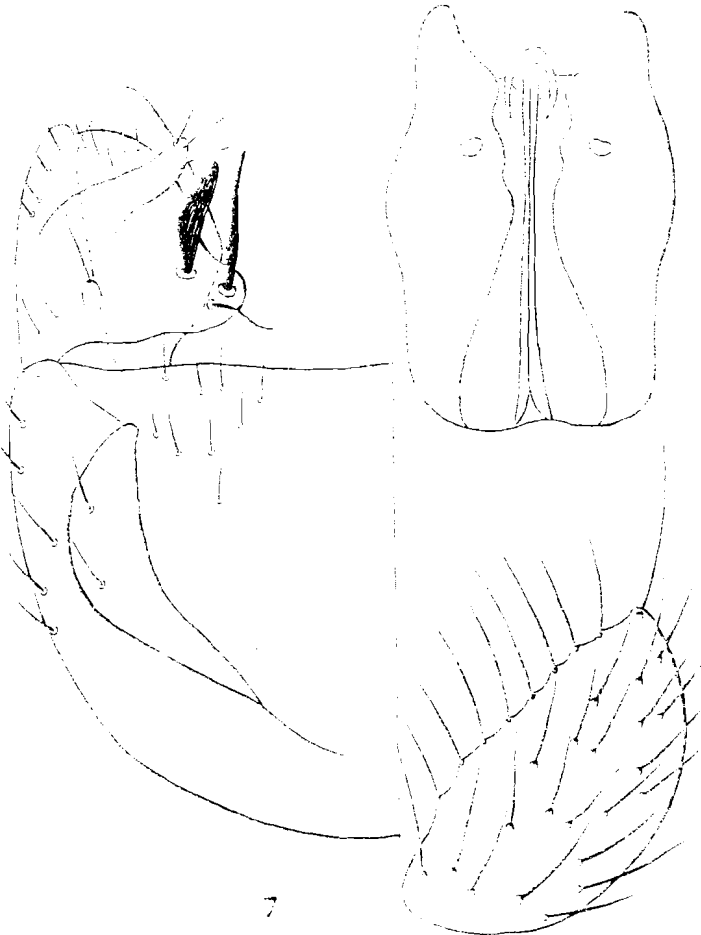


FIG. 7.—*Mycetophila (Abmyceta) caribai* sp. n. Basistyle and dististyle: mesosome and ninth tergites.

*Thorax* yellowish. Mesonotum with brown setae and hairs; anepisternite darker at base; hypopleurite with posterior setae.

*Legs* yellowish. Mid tibia with 5 dorsal, 1 + 2 ventral, 3 external and 2 internal setae. Hind tibia with 5 dorsal and 6 external setae.

*Wing* hyaline. Posterior fork beyond anterior one. Halteres yellow.

*Abdomen* not observed.

*Genitalia* (fig. 7): Basistyles with lobes fused, subquadrate, nearly as high as broad, setose. Dististyle divided in two structures: the largest two-thirds as long as basistyle and with short setae; the smaller lobe forming a protuberance which bears a large leaf internally and a differentiated seta. Mesosome and ninth tergites as in figure.

*Female*.—Unknown.

*Type*.—Holotype male. BRAZIL: State of S. Paulo, Salesópolis, Boracéa, xi. 1947 (*J. Lane*). Registered under No. 8.030.

*Note*.—There is a possibility that this species, or one of those included in this and subsequent dichotomies, is *P. ornatidorsum* (Enderlein, 1911). The identity of *P. ornatidorsum* (Enderlein, 1911) can only be established after a re-examination of the type.

#### *Mycetophila* (*Abmyceta*) *caripunai* sp. n.

*Male*.—Similar to *P. caribai* but the mesonotum is slightly darker and the mark of anepisternite is absent. Abdomen blackish.

*Genitalia* (fig. 8): Basistyles with lobes fused, broader than long. Dististyle divided into two lobes; the external in two points, one with a lunate structure before apex, the other a protuberance bearing two differentiated setae at apex; second lobe a lamellate structure ending in two setae. Mesosome and ninth tergites as in figure.

*Female*.—I have associated females captured at same date and locality with this species.

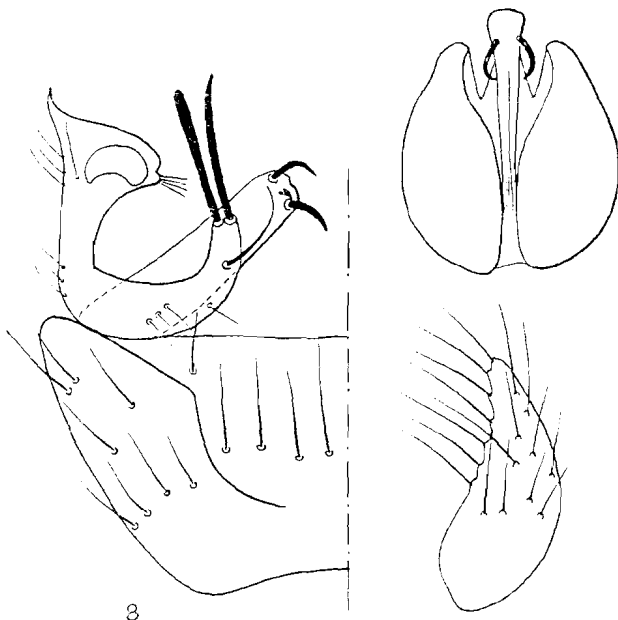


FIG. 8.—*Mycetophila* (*Abmyceta*) *caripunai* sp. n. Basistyle and dististyle; mesosome and ninth tergites.

Holotype male ; allotype female ; paratypes, seven males and five females, BRAZIL : State of Santa Catarina, Nova Teutonia, vi.vii.x.1938 (*Fritz Plau-mann*). Six paratypes registered under Nos. 7.765 to 7.770.

***Mycetophila (Abmyceta) cayuensis* sp. n.**

*Male*.—Similar to *M. (A.) caripunai* sp. n.

*Genitalia* (fig. 9) : Basistyles with lobes fused, broader than long, with mesial differentiated stout setae. Dististyle divided in two lobes ; the first forming a curved arm ornamented with setae which are turned upwards and reach the apex with an elongate

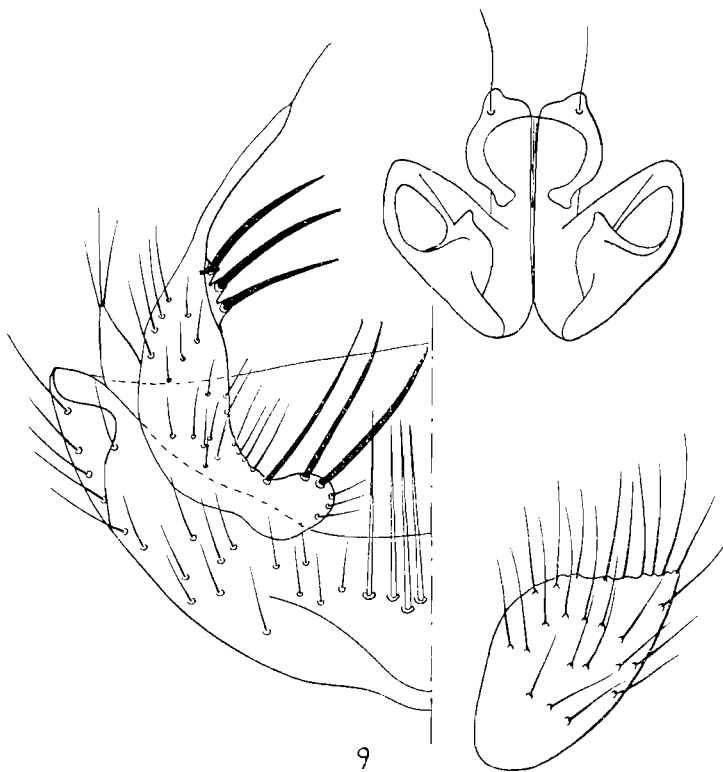


FIG. 9.—*Mycetophila (Abmyceta) cayuensis* sp. n. Basistyle and dististyle : mesosome and ninth tergites.

apical point, internally there are three spinelike filaments ; second lobe a finger-shaped structure. Mesosome and ninth tergites as in the figure.

*Female*.—I have associated with this species ten females captured at the same locality and date.

Holotype male ; allotype female ; paratypes, four males and ten females, BRAZIL : State of S. Paulo, Salesópolis, Boracéa, xi.1947 (*J. Lane*). Holotype, allotype and seven paratypes registered in our collections under Nos. 7.756 to 7.764. Paratypes sent to the British Museum (Nat. Hist.).

***Mycetophila (Abmyceta) demacuri* sp. n.**

*Male*.—*Head*: Mouth parts and palpus light brown. Antenna with yellowish scape, torus and four or five flagellar segments, the rest darkened. Occiput yellowish-brown.

*Thorax*: Mesonotum yellowish-brown, with sparse longish blackish scattered setae and short golden hairs. Scutellum yellowish. Pleura brown, the pteropleurite whitish at base; hypopleurite brownish with a few posterior hairs.

*Legs* yellow, the dorsal margin of mid and hind femora brownish. Mid tibia with 5 dorsal (two smaller), 3 external, 1 + 2 ventral and 3 internal setae. Hind tibia with 5 dorsal (two smaller), 8 external, and a row of very short internal setae.

*Wing* with two dark brown marks; the first mesial and from costa reaches stem of M; the second is a subapical stripe from near apex of Rs reaching the posterior fork where it becomes diluted. Posterior fork beyond the anterior one, the veins not reaching wing margin. Haltere with yellow stem and brown knob.

*Abdomen* blackish with long coppery hairs.

*Genitalia* (fig. 10): Basistyles with fused lobes which are broader than long. Dististyle with a large lobe ending in a blunt point with a stout subapical seta, a slender lobe with two stout setae at apex, then two small protuberances, one which ends in a seta; another

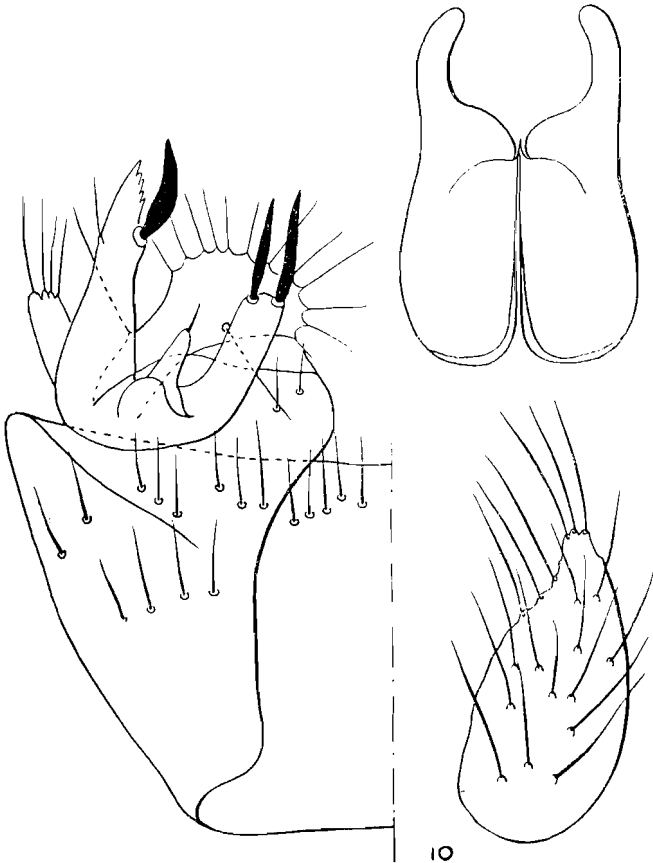


FIG. 10.—*Mycetophila (Abmyceta) demacuri* sp. n. Basistyle and dististyle; mesosome and ninth tergites.

expanded lobe with a row of setae on its margin. Mesosome and ninth tergites as in figure.

*Female*.—Similar to the male. Cerci short and rounded, invaginated.

Holotype male; allotype female; paratypes, twelve males and six females, BRAZIL: State of Santa Catarina, Nova Teutonia, v. vii. viii. 1937-1938 (*Fritz Plaumann*). Five paratypes retained under Nos. 9.408 to 9.412.

*Note*.—This species would fit in *Oromyceta* except that there are developed ventral mid tibial setae and the structures of male genitalia show that it belongs to the present subgenus.

***Mycetophila (Abmyceta) eramanensis* sp. n.**

*Male*.—*Head*: Mouth parts and palpus brown. Antenna with scape, torus and first five flagellar segments yellowish, the rest darkened. Occiput brown.

*Thorax* yellowish. Pleurotergite darkened posteriorly; hypopleurite with hairs.

*Legs* yellow. Mid tibia with 5 dorsal (two smaller), 3 external, 2 ventral and 5 internal setae. Hind tibia with 5 dorsal, 6 external, and a row of short internal setae.

*Wing* with two blackish marks; the first is mesial, quadrate and from Rs extends beyond the lower vein of anterior fork; the second is from Rs and reaches the lower vein of posterior fork. Posterior fork beyond the anterior. Halteres yellow, the stem brown on its distal portion.

*Abdomen* blackish, base of tergite I lighter.

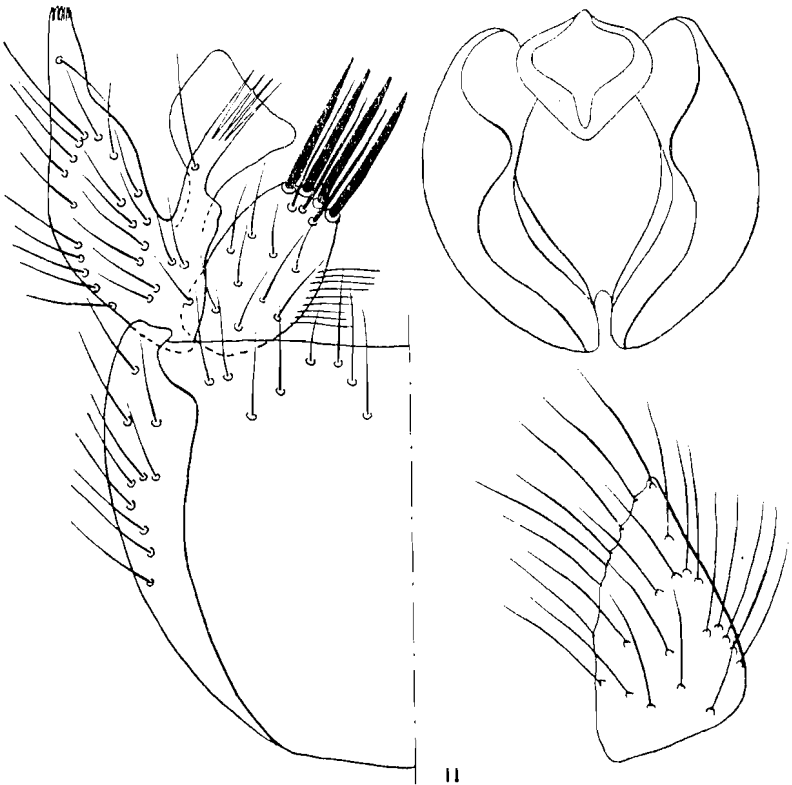


FIG. 11.—*Mycetophila (Abmyceta) eramanensis* sp. n. Basistyle and dististyle; mesosome and ninth tergites.

*Genitalia* invaginated (fig. 11). Basistyles with fused lobes, subquadrate, broader than long, the upper margin nearly plane. Dististyle with two lobes; the first finger shaped and ending in four stout setae and a few slenderer ones; second lobe longer and ending in a protuberance, basally with two internal projections, the first of these capitate and nude, the second elongate and setose. Mesosome and ninth tergites as in figure.

*Female*.—Unknown.

*Types*.—Holotype male; paratype, one male. Paratype registered under No. 9.407.

*Type locality*.—Holotype from BRAZIL: State of Santa Catarina, Nova Teutonia, vii. 1938 (*Fritz Plaumann*); paratype from the State of S. Paulo, Campos do Jordão, viii. 1949 (*J. Lane*).

***Mycetophila (Abmyceta) forattinii* sp. n.**

*Male*.—*Head*: Mouth parts and palpus brown. Antenna with yellowish scape, torus and other segments darkened. Occiput blackish-brown.

*Thorax*: Mesonotum blackish-brown, the posterior angles with distinct yellowish-white marks; covered with blackish hairs and setae. Scutellum blackish, the lateral angles narrowly yellowish-white in continuation of the mesonotal marking. Pleura blackish except the spiracular sclerite and anteriorly, the katepisternite and base of pteropleurite which are yellowish; hypopleurite whitish, its posterior border with minute hairs and darkened.

*Wing* unicolorous, smoky. Both forks nearly at the same level, but the posterior one a little beyond the anterior one. Veins of forks not reaching the wing margin except the lower vein of posterior fork. Halteres with yellowish stem and blackish knob.

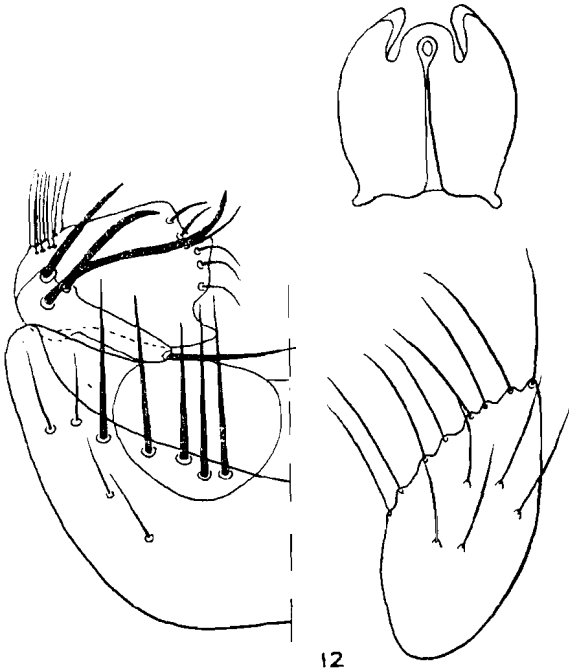


FIG. 12.—*Mycetophila (Abmyceta) forattinii* sp. n. Basistyle and dististyle: mesosome and ninth tergites.

*Legs* with yellowish coxae; femora yellowish but dorsal margin and apex of mid and hind ones darkened. Tibiae dark. Mid tibia with 4 dorsal, 1 external, 1 ventral, 3 internal setae. Hind tibia with 4 dorsal and 8 external setae.

*Abdomen* blackish.

*Genitalia* (fig. 12): Basistyles with fused lobes, broader than long, with stout setae on internal margin, a rounded structure at each side. Dististyle as in figure, with four stout setae on larger lobe. Mesosome and ninth tergites as in figure.

*Female*.—Similar to the male. Cerci small and rounded.

*Types*.—Holotype male; allotype female; paratypes, one male and one female. Holotype and allotype registered under Nos. 10,221 and 10,222. Paratypes to be returned to the British Museum (Nat. Hist.).

*Type locality*.—BRAZIL: State of S. Paulo, Presidente Wenceslau, Faz. Guanabara, xi, 1951 (*O. P. Forattini*). Allotype and paratypes from State of Santa Catarina, Nova Teutonia, v, vii, 1938 (*Fritz Phaulmann*).

*Note*.—This species is named in honour of my friend Dr. O. P. Forattini of the Faculdade de Higiene e Saúde Pública, S. Paulo, Brasil.

#### *Mycetophila* (*Abmyceta*) *galiibisi* sp. n.

*Male*.—*Head*: Mouth parts and palpus light brown. Antenna with yellowish scape, torus and first flagellar segments, the rest darkened. Occiput brown.

*Thorax*: Mesonotum and scutellum brownish-yellow. Pleura brown; katapisternite yellowish, posteriorly darker and with setae.

*Wing* with a diluted mesial brown spot from Rs to base of M, apex very lightly tinged with yellow. Posterior fork distinctly beyond the anterior one. Halteres yellowish.

*Legs* yellow, the hind femur brownish dorsally. Mid tibia with 5 dorsal, 2 — 1 ventral, 3 external and 4 internal setae. Hind tibia with 5 dorsal, 7 external and a row of small internal setae.

*Abdomen* blackish with narrow apical whitish bands.

*Genitalia* (fig. 13): Basistyles with fused lobes. Dististyle with short and complex lobes and differentiated setae as in figure. Mesosome and ninth tergites as in figure.

*Female*.—Similar to the male. Cerci yellow, elongate and small. Mesosome and ninth tergites as in the figure.

*Types*.—Holotype male; allotype female; paratypes, three males and five females. Registered under Nos. 7,867 to 7,870. Paratypes returned to the British Museum (Nat. Hist.).

*Type locality*.—Holotype, allotype and two paratypes from BRAZIL: State of S. Paulo, Boracéia, xi, 1946 (*Rubello, Travassos & J. Lane*); six paratypes from State of Santa Catarina, Nova Teutonia, vii, viii, ix, 1938 (*Fritz Phaulmann*).

#### *Mycetophila* (*Abmyceta*) *guatensis* sp. n.

*Male*.—*Head*: Mouth parts and palpus yellowish. Antenna with scape, torus and first three or four segments yellowish, the rest darkened. Occiput brown.

*Thorax*: Mesonotum brown with white pruinosity; with very short setae and yellow hairs. Scutellum brown, darker on the sides. Pleura dark brown; katapisternite yellowish, posterior margin whitish; hypopleurite dark brown with posterior setae.

*Wing* with two blackish marks; the first from Rs to upper vein of anterior fork, the second subapical, along costa but not reaching the upper vein of anterior fork. Posterior fork distal to the anterior. Halteres yellowish.



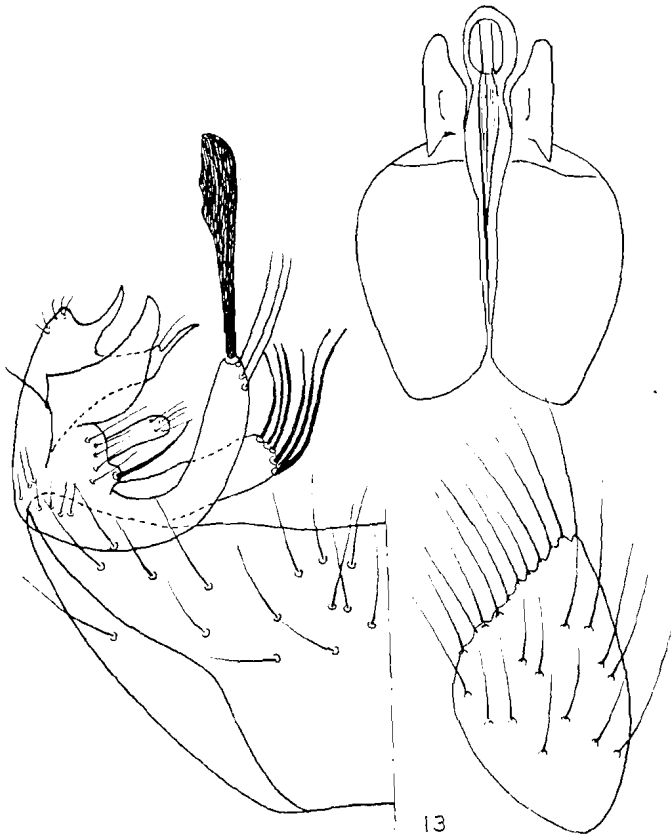


FIG. 13.—*Mycetophila (Abmyceta) galibisi* sp. n. Basistyle and dististyle; mesosome and ninth tergites.

*Legs* yellow; mid and hind femora and tibiae slightly darker at apex. Mid tibia with 5 dorsal (one small), 3 external, 1 + 2 ventral and 3 internal setae. Hind tibia with 5 dorsal, 7 external and a row of short internal setae.

*Abdomen* black with long coppery hairs.

*Genitalia* small and invaginated (fig. 14). Basistyles with fused lobes. Dististyle with first lobe elongate, bearing a smooth structure from which a fringe of long hairs emerges; second lobe curved, with many protuberances and setae and a large, strong differentiated seta in the middle. Mesosome and ninth tergites as in the figure.

*Female*.—Similar to the male, genitalia yellowish, cerci short and rounded.

Holotype male; allotype female; paratypes, two males and one female. BRAZIL: State of Santa Catarina, Nova Teutonia, v.vii.viii.1938 (*Fritz Plaumann*). Two paratypes retained and registered under Nos. 9.413 and 9.414.

*Mycetophila (Abmyceta) humboldti* (Lane, 1948).

*Delopsis* Lane, 1948, *Rev. Ent.*, Rio de J. 19: 273.

I have selected one of the females from Santa Catarina as the allotype of this species.

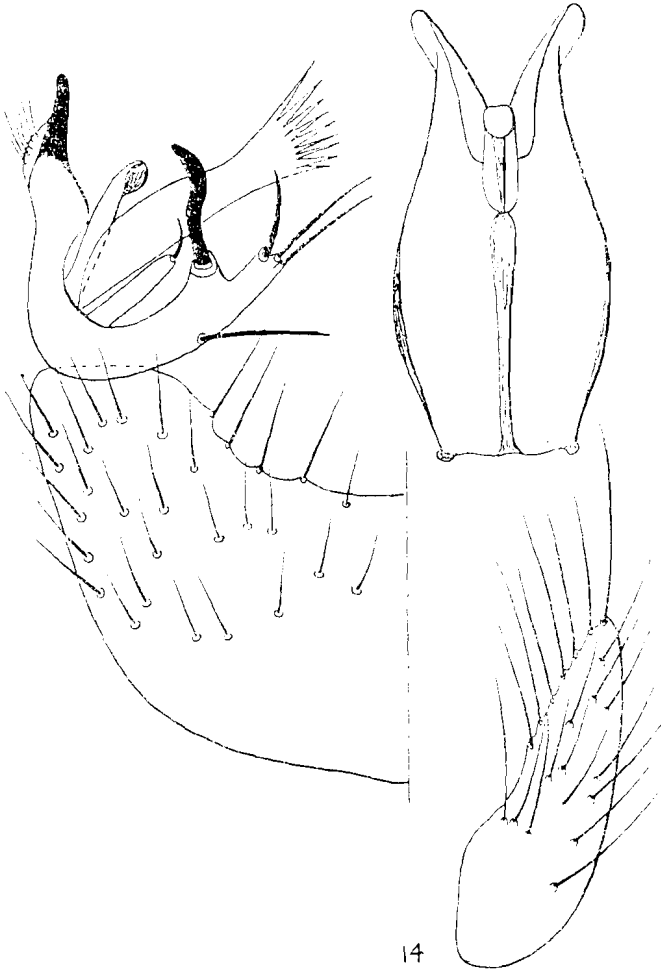


FIG. 14.—*Mycetophila (Abmyceta) guatensis* sp. n. Basistyle and dististyle; mesosome and ninth tergites.

*Female*.—Similar to male. Cerci small and rounded.

Allotype female. Registered under No. 7.771.

*Distribution*.—BRAZIL: State of S. Paulo, Salesópolis, Boracéia, viii.1948 (*M. P. Barretto*) two males; State of Santa Catarina, Nova Teutonia, vi. viii. x.1938 (*Fritz Plawmann*), nine specimens.

#### *Mycetophila (Abmyceta) jurunensis* sp. n.

*Male*.—*Head*: Mouth parts and palpus light brown. Antenna with scape, torus and base of first five segments yellowish at base, the rest darkened. Occiput brown.

*Thorax*: Mesonotum brown, lighter in the centre and with an indistinct indication of median lines; prescutellar region with two brown spots between a yellowish line. Scutel-

lum yellowish in the middle, darkened on the sides. Pleura dark brown; katepisternite lighter; hypopleurite brown with posterior setae.

*Wing* with the mesial spot from Rs to upper vein of anterior fork; apically with a dark shading which does not reach the upper vein of anterior fork. Posterior fork beyond the anterior. Halteres yellowish.



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FIG. 15.—*Mycetophila (Abmyceta) jurunensis* sp. n. Basistyle and dististyle; mesosome and ninth tergites.

*Legs* with yellowish coxae; trochanters darkened; mid and hind femora blackish at apex, more so on the hind one. Mid and hind tibiae darkened at apex. Mid tibia with 5 dorsal, 3 external, 1 + 2 ventral and 3 internal setae. Hind tibia with 4 dorsal and 9 external setae.

*Abdomen* blackish.

*Genitalia* (fig. 15): Basistyles with lobes fused, an internal anterior row of setae, the lobes broader than long. Dististyle with structures as in figure, but an upper structure

which is expanded and fan-shaped, with setae on margin, is shown on edge. Mesosome and ninth tergites as in the figure.

*Female*.—Similar to the male. Cerci small and rounded.

*Types*.—Holotype male; allotype female; paratypes, two males. Registered under Nos. 10.197 to 10.199. One paratype to be returned to the British Museum (Nat. Hist.).

*Type locality*.—BRAZIL: State of S. Paulo, S. Miguel Archaujo, Turvo, x.1953 (*J. Lane*); one paratype from State of S. Catarina, Nova Teutonia, vi.1938 (*Fritz Plaumann*).

***Mycetophila (Abmyceta) jurii* sp. n.**

*Male*.—*Head*: Mouth parts and palpus reddish-brown. Antenna with scape, torus and first two flagellar segments yellowish, the rest darkened. Occiput blackish.

*Thorax*: Mesonotum anteriorly shining yellowish, the sides whitish, posteriorly brown, a blackish spot over the root of wing; with golden hairs and black setae. Scutellum blackish basally, this colour reaching the prescutellar region, the rest yellowish. Pleura with whitish katapisternite; anepisternite yellowish, above and behind blackish, the rest brown; hypopleurite brown and with posterior setae.

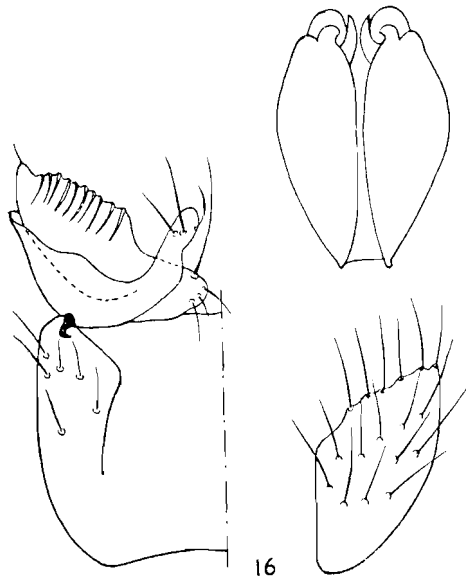


FIG. 16.—*Mycetophila (Abmyceta) kunasensis* sp. n. Basistyle and dististyle; mesosome and ninth tergites.

*Wing* with two black marks; the first large, quadrate and from R1 slightly surpassing the petiole of M; the second at base of apical third, from R1 to upper vein of anterior fork. Posterior fork distinctly beyond the anterior. Halteres yellowish.

*Legs*: Coxae whitish, mid with a blackish apical spot, hind pair blackish at base and apex. Femora yellowish except at apex of mid and more so on hind pair which are blackish. Tibiae yellowish, apex of mid and hind ones blackish. Mid tibia with 5 dorsal, 4 external, 2 long ventral and 2 internal setae. Hind tibia with 5 dorsal and 6 external setae.

*Abdomen* shining black.

*Genitalia* (fig. 18): Basistyles with fused lobe, slightly longer than broad. Dististyle with a lobe nearly as long as basistyle, basally expanded, with two protuberances and enlarged from base to middle; one of these expansions horn-shaped, the other setose at apex; apical portion slender and elongate. Mesosome rounded, with two latero-superior flaps as in figure. Ninth tergites as in figure.

*Female*.—Similar to male. Last abdominal segment and cerci bright yellow.

Holotype male; allotype female, BRAZIL: State of S. Paulo, Salesópolis, Boracéia, iv.1948 (*E. X. Rabello*) and vi.1948 (*J. Lane*). Registered under Nos. 8,017 and 8,018.

***Mycetophila (Abmyceta) kunasensis* sp. n.**

*Male*.—*Head*: Mouth parts and palpus yellowish. Antenna with scape, torus and first two or three flagellar segments yellowish, the rest blackish. Occiput blackish.

*Thorax*: Mesonotum blackish. Scutellum blackish. Pleura blackish, the katepisternite and base of pteropleurite yellowish. Hypopleurite blackish with one or two posterior setae.

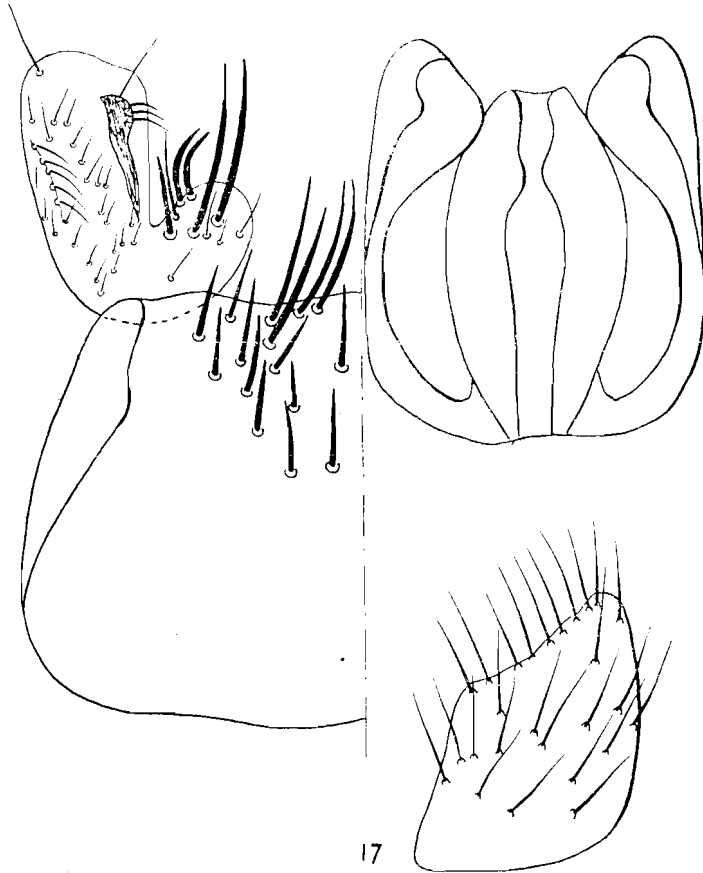


FIG. 17.—*Mycetophila (Abmyceta) punensis* sp. n. Basistyle and dististyle; mesosome and ninth tergites.

*Wing* with the mesial spot from Rs to lower vein of anterior fork; the second spot which is subapical from Rs does not reach the upper vein of anterior fork and is somewhat rounded. Posterior fork quite beyond the anterior one. Halteres yellowish white.

*Abdomen* blackish.

*Genitalia* (fig. 16): Basistyles with fused lobes, nearly quadrate. Dististyles as in figure. Mesosome and ninth tergites as in figure.

*Female*.—Similar to the male. Cerci elongate and also blackish.

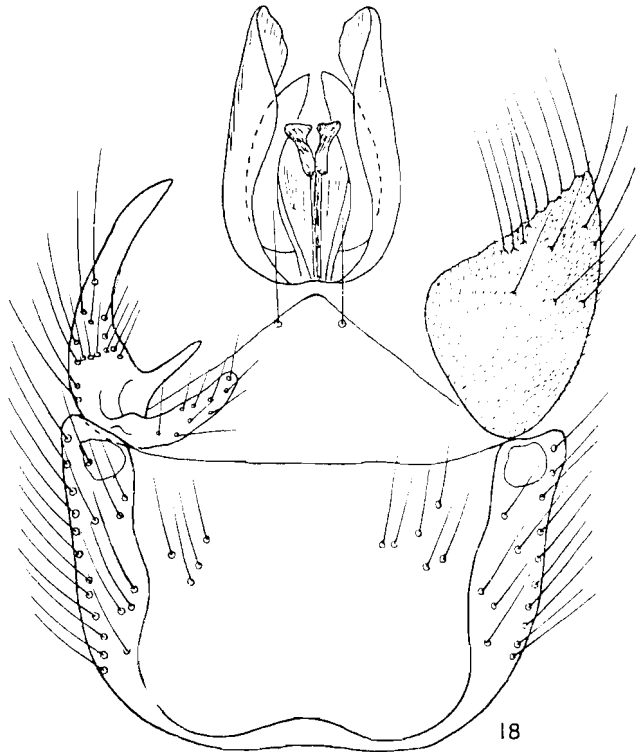


FIG. 18.—*Mycetophila* (*Abmyceta*) *jurii* sp. n. Basistyle and dististyle; mesosome and ninth tergites.

Holotype male; allotype female; paratype, a male, BRAZIL: State of Santa Catarina, Nova Teutonia, vii.1938 (*Fritz Plaumann*). Paratype registered in our collection under No. 10.201. Holotype and allotype to be returned to the British Museum (Nat. Hist.).

*Mycetophila* (*Abmyceta*) *pluripunctata* (Lane, 1948).

*Delopsis* Lane, 1948, *Rev. Ent., Rio de J.* **19**: 274.

There is a constant difference in the pattern of mesonotum in the specimens from Nova Teutonia and those from Boracéa. In the Nova Teutonia series the lateral spots are larger and coalesce while in the Boracéa specimens they remain distinct.

I did not mention, in my original diagnosis, that the costal vein extends a little beyond Rs.

*Distribution*.—BRAZIL: Santa Catarina, Nova Teutonia, vii. viii. 1938, eight specimens. I have three additional specimens from State of S. Paulo, Salesópolis, vii. 1949 (*J. Lane & E. I. Coher*).

***Mycetophila (Abmyceta) punensis* sp. n.**

*Male*.—*Head*: Mouth parts and palpus yellowish-brown. Scape, torus and base of first segment yellowish, the rest darkened. Occiput grey.

*Thorax*: Mesonotum with grey ground colour, a median elongate blackish stripe which nearly reaches the prescutellar region and two sublateral ones from anterior third nearly to scutellum are also blackish; covering of dense decumbent and sparse setae; prescutellar setae an united pair. Scutellum grey. Pleura dark brown, base of pteropleurite yellowish; hypopleurite with setae posteriorly.

*Wing* unicolorous, smoky. Posterior fork distinctly distal to the anterior one. Halteres yellowish.

*Legs* yellowish; mid tibia with 3 dorsal, 2 external, 1 weak ventral and 4 internal setae; hind tibia with 5 dorsal and 5 external setae.

*Abdomen* blackish.

*Genitalia* (fig. 17): Basistyle with the lobes fused, broader than long, with stout setae on upper inner margin. Dististyle single and as in the figure. Mesosome and ninth tergites as in the figure.

*Female*.—Unknown.

Holotype male; paratype male, BRAZIL: State of S. Paulo, Campos do Jordão, viii. 1949 (*J. Lane*). Registered under Nos. 10.219 and 10.220.

***Mycetophila (Abmyceta) tapinirai* n. n.**

*Mycetophila confusa* Lane, 1948 (nec Dziedzicki), *Rev. Ent., Rio de J.* **19**: 261.

I note that the name *confusa* is preoccupied by *M. confusa* Dziedzicki, 1886, and take this opportunity to rename my species *tapinirai* n. n.

*Distribution*.—Numerous specimens from the State of S. Paulo, Campos do Jordão, viii. 1949 (*J. Lane*).

***Mycetophila (Abmyceta) uaicensis* sp. n.**

*Male*.—*Head*: Mouth parts and palpus brownish. Antenna with scape, torus and first five or six segments yellowish, the rest gradually darkened. Occiput brown.

*Thorax*: Mesonotum dark brown, anteriorly and posteriorly whitish; prescutellar region with a distinct yellowish mesial stripe. Scutellum brownish. Pleura brown including hypopleurite, which has posterior setae.

*Wing* with a narrow mesial spot from R1 to fork of M. Posterior fork beyond the anterior. Halteres yellow.

*Legs* yellow, the hind femur darkened dorsally. Mid tibia with 5 dorsal, 2 external 2 + 1 ventral and 2 internal setae. Hind tibia with 5 dorsal and 6 external setae.

*Abdomen* blackish.

*Genitalia* (fig. 19): Basistyles with fused lobes, two lunate structures above. Dististyle divided into two lobes; external portion finger-shaped; the internal one with a stout seta; second lobe with long, slender setae at apex.

*Female*.—Similar to the male. Cerci yellowish, elongate.

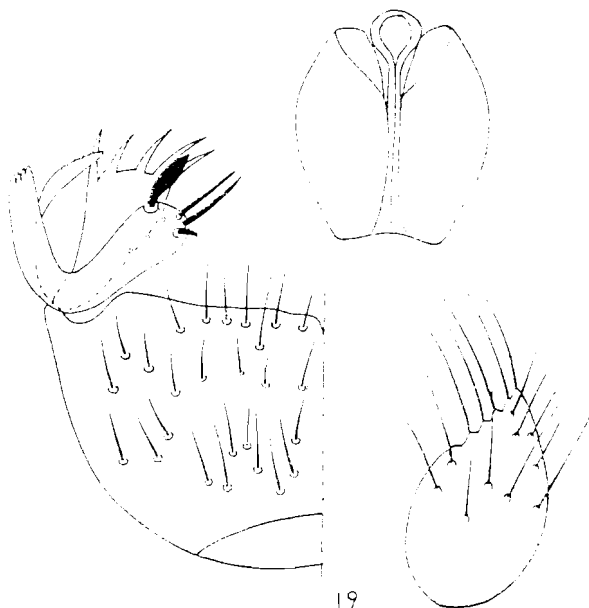


FIG. 19.—*Mycetophila* (*Abmyceta*) *uaicensis* sp. n. Basistyle and dististyle : mesosome and ninth tergites.

Holotype male : allotype female : paratypes, four males and three females. BRAZIL : State of Santa Catarina. Nova Teutonia, ix. x. 1938 (*Fritz Plawmann*). Three paratypes retained and registered under Nos. 9,505 to 9,507.

***Mycetophila* (*Abmyceta*) *uboyasi* sp. n.**

*Male*.—*Head* : Mouth parts and palpus yellowish. Antenna with scape, torus and first three or four segments yellowish, the rest darkened. Occiput brown.

*Thorax* : Mesonotum yellowish with three marks ; the mesial one cuneiform, blackish, the laterals forming two longitudinal dark brown bands ; colour between these marks brown, darker on the sides, edges of disc broadly whitish-yellow, prescutellar region with two blackish spots ; covering of yellow hairs and dark setae. Scutellum blackish, middle of base and sides yellowish. Pleura yellowish : katepisternite yellow : hypopieurite yellow, posteriorly brown and with hairs.

*Wing* with a mesial dilute brown spot from R1 to stem of anterior fork. Posterior fork quite beyond the anterior one. Halteres yellow.

*Legs* yellow, mid and hind femora slightly darkened dorsally and narrowly dark at apex. Mid tibia with 5 dorsal, 2 external, 2 short ventral and 2 long and 1 short internal setae. Hind tibia with 5 dorsal and 8 external setae.

*Abdomen* blackish, narrowly yellow on apical portion of segments.

*Genitalia* (fig. 20) : Basistyles with fused lobes and bearing three stout, strong setae on side. Dististyle with many complex structures as in the figure. Mesosome as in figure. Ninth tergites divided in two yellowish lobes, the basal one strong, the apical one finger-shaped.

*Female*.—Similar to the male, wing markings more distinct. Cerci reddish, small rounded.



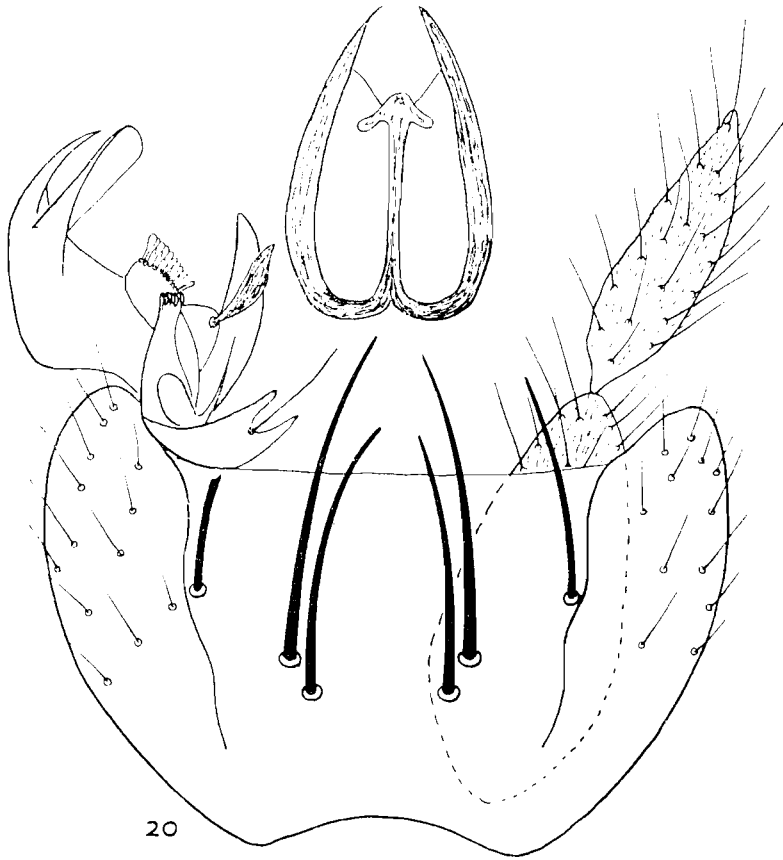


FIG. 20.—*Mycetophila (Abmyceta) uboyasi* sp. n. Basistyle and dististyle; mesosome and ninth tergites.

Holotype male; allotype female; paratypes, three males, BRAZIL: State of S. Catarina, Nova Teutonia, vii.1938 (*Fritz Plaumann*). One paratype retained and registered under No. 9.500.

***Mycetophila (Abmyceta) xamasensis* sp. n.**

*Male*.—*Head*: Mouth parts and palpus yellow. Antenna with brown scape, whitish torus and first segment, the other segments darkened. Occiput brown in the middle, yellow on the sides.

*Thorax*: Mesonotum yellowish-white, with three large brown marks, the mesial cuneiform, lighter in the middle, the laterals elongate, with a slender transverse line in front projecting towards the sides; prescutellar region with a single brown, quadrate spot nearly touching the lateral marks; with brown hairs and dark setae. Scutellum yellowish with a broad mesial blackish line. Pleura light brown; hypopleurite yellowish but hind portion brown and setose.

*Wing* unicolorous. Posterior fork distinctly distal to the anterior. Halteres yellowish, base of knob brown.

*Legs* yellow. Mid tibia with 5 dorsal, 3 external, 2 ventral and 2 short internal setae. Hind tibia with 6 dorsal and 6 external setae.

*Abdomen* blackish; first two segments mostly yellow and leaving apical blackish bands.

*Genitalia* (fig. 21): Basistyles with fused lobes, in the middle two united long setae; beyond these another pair inserted in a protuberance. Dististyle elongate, ending in a

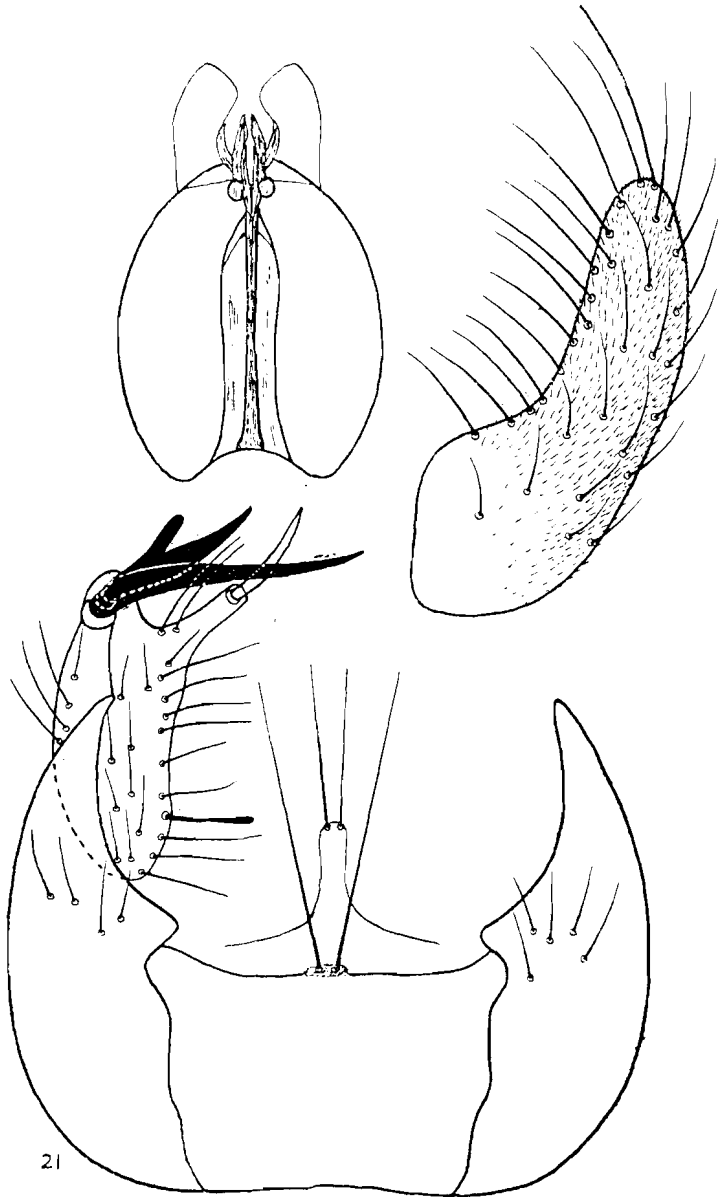


FIG. 21.—*Mycetophila* (*Abmyceta*) *xamasensis* sp. n. Basistyle and dististyle; mesosome and ninth tergites.

stout, short internal seta and on the external side two very strong, sclerotised setae, one of them forked, the other pointed. Mesosome and ninth tergites as in the figure.

*Female*.—Similar to the male. Cerci slender, elongate, small and yellow.

Holotype male ; allotype female ; paratypes, two males and three females, BRAZIL : State of Santa Catarina, Nova Teutonia, vii. viii. 1938 (*Fritz Plau-*  
*mann*). Two paratypes retained and registered under Nos. 9.496 and 9.497.

***Mycetophila (Abmyceta) yurimauesi* sp. n.**

*Male*.—*Head* : Mouth parts and palpus yellow. Antenna with blackish scape, torus and first segment, the rest darkened. Occiput brown in the middle, the rest yellowish.

*Thorax* : Mesonotum yellowish with three dark brown marks, the mesial one cuneiform, lighter in the centre ; the lateral ones L-shaped, the anterior portion well down the sides ;

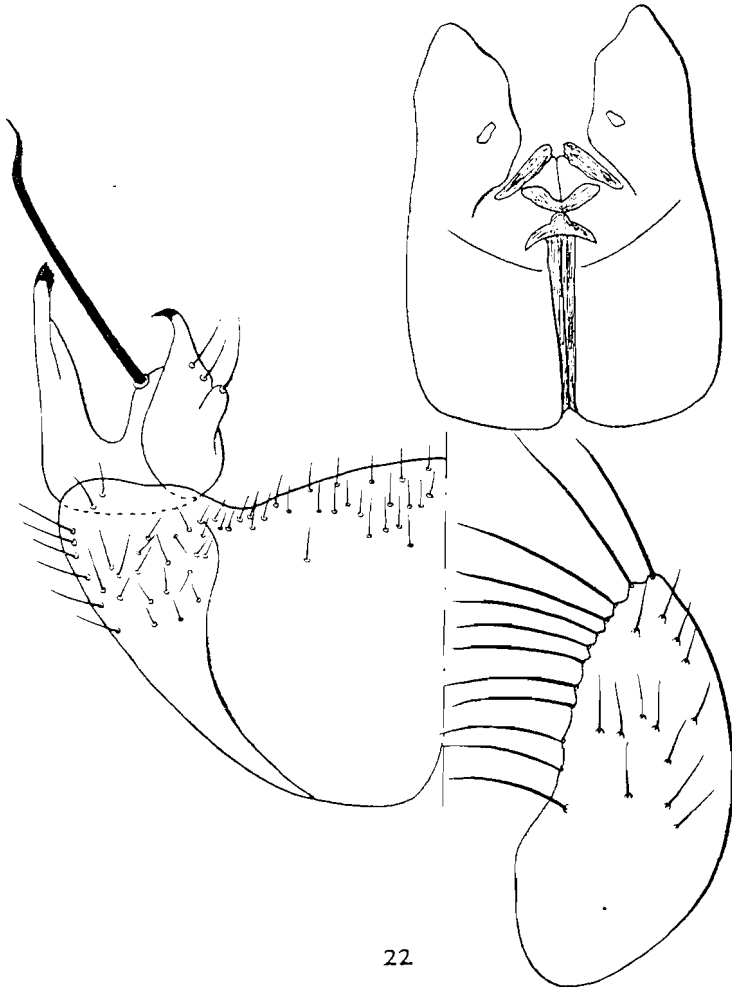


FIG. 22.—*Mycetophila (Abmyceta) yurimauesi* sp. n. Basistyle and dististyle ; mesosome and ninth tergites.

a single prescutellar blackish and quadrate spot; covering of brown hairs and setae. Scutellum whitish with a central long dark line. Pleura brown, some areas lighter; hypopleurite brown.

*Wing* unicolorous. Posterior fork distal to the anterior. Halteres with yellow stem and brown knob.

*Legs* yellow. Mid tibia with 4/5 dorsal, 3 external, 2 ventral and 2 internal setae. Hind tibia with 5 dorsal and 7 external setae.

*Abdomen* dark brown dorsally, yellowish ventrally.

*Genitalia* (fig. 22): Basistyles with fused lobes, broader than long. Dististyles divided in two lobes which are short and as in the figure. Mesosome large, each flap with a peculiar structure as shown in figure. Ninth tergites as in the figure.

*Female*.—Similar to the male. Cerci small, rounded and yellowish.

Holotype male; allotype female; paratypes, four females and five males, BRAZIL: State of Santa Catarina, Nova Teutonia, vii.viii.ix.x.1938 (*Fritz Plaumann*).

#### V. SUMMARY.

Two new subgenera for *Mycetophila* are created, namely *Oromyceta* and *Abmyceta*. A key for the separation of *Epicypeta* and *Mycetophila* and the new subgenera is compiled. In the new subgenus *Oromyceta* six species are included, five of which are described as new. A key for their separation is also included. In the new subgenus *Abmyceta* twenty-four species are included and of these sixteen are described as new. A key for the species of this subgenus is given.

A new name is proposed for *M. confusa* Lane, 1948. New zoogeographical records are included and the most interesting one is the finding of *Mycetophila* (*Mycetophila*) *conjuncta* Freeman, 1951, in Brasil: S. Paulo, Campos do Jordão. The allotype of *Mycetophila* (*Abmyceta*) *humboldti* (Lane, 1948) is selected.