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East African Milichiidae and Chloropidae (Diptera)
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A small collection of Milichiidae and Chloropidae from Dr. E. Lindner's second expedition to East Africa was kindly made available by the collector. The Milichiidae proved to be especially interesting, and from this small sample one new genus and three new species are here described. A small collection from Lindner's first expedition contained three new species (Sabrosky, 1958, Stuttgarter Beiträge zur Naturkunde 4: 1–5). These results suggest that the family will ultimately prove to be surprisingly rich in species in tropical Africa. The Chloropidae of the second expedition provided one new species and added to the growing body of information on the distribution of this family in the Ethiopian Region.

Literature references to the Chloropidae have been omitted where they already appear in my report on the Chloropidae of the Ruwenzori Expedition (Ruwenzori Expedition, 1934–1935, Vol. 2, pp. 711–828, British Museum, Nat. Hist.). That paper gives keys to the Ethiopian genera and to the species of many of these genera.

The specimens were collected in Tanganyika, with the few exceptions noted. Most of the examples are from two localities, Makoa and Marangu. Those from the latter locality, with the sole exception of Desmonomotopha inaurata Lamb, were members of a biocenose on a garden rose bush infested by an aleyroid. A special report on that is being prepared by Dr. Lindner.

The type series are preserved in the Staatliches Museum für Naturkunde in Stuttgart, with paratypes, where possible, in the U.S. National Museum in Washington.

Family Milichiidae

*Milichia apicalis* n. sp.

Brownish pollinose species, the dorsum of fifth abdominal segment chiefly gray pollinose.

Male: Entirely black in ground color, pollinose, subshining; front bluish gray, viewed from behind and above, the face, parafacies, and cheeks bright gray; thorax brown; abdominal terga 1–4 subshining dark brown except for lines of gray along posterior margins of 2 (toward sides), 3, and 4, a roundish anterolateral gray spot on each side of 4, and the dorsum of segment 5 chiefly gray, the latter with a large oval discal area light brown but scarcely affecting the striking contrast of gray fifth segment and dark brown preceding segments; calypteres dark brown with brown hairs.

Head of typical *Milichia* habitus; frons narrow, 0.66 times the breadth of an eye and 0.33 times the width of head, sides parallel on posterior two-thirds, diverging slightly above antennae, sides of face continuing the slight divergence; lunule with two strong cruciate setae; in profile the huge convex eye occupying most of head, cheek linear, and vibrissal angle not produced; face weakly concave; antennae small, each third segment subquadrate and shorter than second; arista slender, microscopically pubescent. Chaetotaxy: Strong inner and weaker outer verticals, cruciate postverticals,
long ocellars, and two pairs of orbitals, the anterior procline and posterior reclinate, lower orbitals represented by a row of fine, short, hairs; two rows of interfrontal setae, the anterior pair procline, convergent, and approximately as strong as the outer vertical; perisetal bristles strong, increasing up to the well-developed vibrissae.

Thorax short and broad, notum densely beset with short, fine, appressed hairs, about 12 irregular rows between the dorsoventral positions. Chaetotaxy: 1 humeral, 1 prealar, 1+1 notopleural, 1 weak supraalar, 1 posterior intralaral, 2 postalar, 2 posterior dorsoventral (anterior weak), 1 long prescutellar acrostical, 1 apical and 1 subapical scutellar and 3 sternopleural pairs of bristles.

Abdomen short and broad, terga 2–4 subequal in length, the fifth slightly longer, dorsum of abdomen with numerous short fine hairs like those of the mesonotum.

Legs short and weak. Wing venation typical for the genus, as in M. speciosa Meigen; costal notch deep, the lappet ordinary, not broadened or blackened; fore cross-vein obviously proximad middle of the discal cell, at about 0.4 times the distance from base of cell.

Length, 3 mm.

Holotype, male, Marangu, 12. III. 1959.

The male abdominal pattern, with the predominantly gray fifth tergum contrasting with the dark brown of the preceding segments, will separate this form from all other known species of the Ethiopian Region.

*Milichiella lacteipennis* (Loew)
1866, Berl. Ent. Ztschr. 9: 185 (Libopectra).

Four males, Marangu, 3, 5, 12 and 16. III. 1959.

*Milichiella* sp. (*melaleuca* Loew)
1850, Mil. Ent. Ztschr. 9: 185 (Libopectra).

Three males, Marangu, 12. III. 1959.

Loew's name has been synonymized in the past with *M. argentea* (Fabricius), but the latter was described from Aboina in the East Indies and seems unlikely to apply to this species from the Ethiopian Region. It is easy to group those males with bright silvery abdomen, and to overlook less conspicuous differences. Both this and the following species have that striking abdominal character, but the calypters and caelyptal fringe are brown in the present species, white in the following.

*Milichiella* sp. (?ota Becker) **σ**

Male, Livingstone, Northern Rhodesia, 16. XI. 1959.

**Ecectopima acrosticale** Sabrosky, 1959, loc. cit., p. 2


The abdominal segments are somewhat telescoped and the abdomen is rounded, not depressed; hence the dorsum appears chiefly brown rather than silvery as figured in the original publication. However, the fundamental pattern is the same. The apparent variation that results from expansion or contraction of the abdomen must be taken into account when interpreting descriptions and comparing material with them.

**Ecectopima inaurata** Lamb

This may represent a new species near *acrosticale*. The abdomen is chiefly brown, with silvery pollinose on the distal third of the fifth segment.

**Desmetopha m-nigrum** (Zetterstedt)

Male, Makoa, 10. II. 1959, “b. Kaffeeschildläusen”.

**Desmetopha sordida** (Fallén)
1820, Diptera Sveciae, Oscines, p. 10 (Madiza).

Female, Marangu, 8. III. 1959.

The specimen, tender and somewhat collapsed, agrees with the characters of *sordida*. If adequate material were available, no doubt the widely recorded *m-nigrum* and *sordida* should be reexamined critically. On the other hand, they, like some species of the sphaeroceri genus *Leptocera*, may truly have a wide distribution because of transport in commerce.

**Desmetopha interfrontalis** sp.

Gray pollinose species with interfrontal stripes relatively broad, bright gray pollinose.

Male, female: Black, bright gray pollinose, except for orange-yellow palpi, yellow knobs and brown stalks of halteres, yellowish-brown fore coxae, and yellowish tarsi with distal tarsal segments slightly browned, especially on fore tarsi; the broad and bright gray interfrontal stripes and orbits together with the extended ocellar triangle delimit the frontal area as a narrow, subshining, velvety black "M"; anterior slope of each pleuron (on sternopleuron and lower margin of mesopleuron) with polished black spot; mesonotum leaden gray, not at all yellowish tinted; abdomen dark brown, subshining.

With the usual habitus of *Desmetopha*, and agreeing with the generic characterization by *Hennig* (1937, Fam. 60 a, in LINDNER's Fliegen-Palaearkt., Reg., Lfg. 115, p. 40); front of moderate width, half the width of head, slightly broader than long, though appearing nearly square; the gray orbits, equixed throughout, and the interfrontal stripes are broader than usual in the genus, and together with the gray pollinose of the ocellar triangle, which is extended forward two-thirds the length of the blowfly, make the sections the black "M" decidedly narrower than usual in the genus. Each interfrontal stripe with 4 or 5 coarse hairs, the foremost slightly stronger than the others; head in profile similar to that of *D. sordida* (Hesse, loc. cit., fig. 37), the cheek height one-sixth the eye height and nearly three-fourths the breadth of a third antennal segment; cheek entirely gray pollinose.

Thorax moderately setose, with six (posteriorly) to eight somewhat elongate rows between the dorsoventral positions; one pair of prescutellar acrosticals, the chaetota... otherwise as described by *Hennig*.

Wings essentially as figured by *Lamb* for *D. inaurata* (1914, Trans. Linn. Soc. London, ser. 2 (Zool.), 16: 364, fig. 43), but the third and fourth veins slightly convergent on distal third of wing, narrowing the first posterior cell, the fourth costal sector thus slightly shorter than the third; costa between humeral break and costal spines with nine pairs of bristlelike, evenly spaced setae that are short and not outstanding, little longer than those on the second costal sector.

Length, 1.5 mm.


Seven flies, Suakoko, Liberia, July 1, Aug. 6 and 9, 1952 (C. C. Bruckenstaff) [U.S. Natl. Mus.], are not in good enough condition for inclusion in the type series but they appear to be conspecific. This suggests, as was the case with *D. seminatrum*...
In my partial key to Ethiopian Desmometopa (1958, loc. cit., p. 5), D. interfrontalis will pass to callout 3 on the basis of polished black spots on pleura and slightly con- verging third and fourth veins. However, the entirely yellow palpi, grey pollinose cheeks, and broad interfrontal stripes and orbits will separate it from either species in that callout, as well as from other species in the key.

**Litometopa n. gen.**

Head in general as in Desmometopa, but as long as high; front equilibrated in both sexes, lacking the characteristic M-shaped pattern of Desmometopa, smooth and polished, without interfrontal stripes or hairs, and the orbits non pollinose and shining, smooth anteriorly, slightly rugose posteriorly; face deeply concave; antennae small, third segments orbicular; aristae long, slender, microscopically pubescent; proboscis polished black, the haustellum as long as lower margin of head, viewed from above broadly flattened on sides; chaetotaxy as in Desmometopa, but only one upper (slightly reclinate) and one lower (mesocline) pair of orbital bristles. Thorax narrow and elongate, mesonotum 1.65 times as long as broad, finely shagreened, subshining, almost bare of hairs except for median acrostical and dorsoventral rows; mesosternum greatly elongated, nearly as long as mesonotum, the bases of mid and hind legs close together at posterior extremity of thorax, below the halteres, and directed posteroventrad; chaetotaxy: 1 humeral, 1 + 1 notopleural, 1 postalar, 2 posterior dorsoventral (the foremost short), 1 apical and 1 subapical scutellar and 1 sternopleural pair of bristles, with shorter and inconspicuous supraalar and second postalar bristles (a slightly developed prescutal hair probably represents a reduced prescutal bristle). Mid and hind legs weak but fore legs stronger, appearing raptorial, with elongated fore coxae, and slightly incrassate fore femora with anteroventral and posteroventral rows of 6–8 strong spines. Wing essentially as figured for Desmometopa (Hennig, 1937, loc. cit., fig. 36) but somewhat longer and narrower, 2.75 times as long as broad; third and fourth veins slightly convergent distally; fore crossvein slightly before middle of discal cell; second basalar and anal cells present, short and inconspicuous. Male genitalia as in Desmometopa.

Type-species: Litometopa glabrifrons Sabrosky.

Gender of Litometopa: feminine, as in Desmometopa.

Although the non pollinose and shining black head and body at once suggest Madisa, the new genus is closer to Desmometopa in fundamental characters. In a sense, it is an extreme form of the latter, with interfrontal hairs and stripes absent, and orbital bristles and mesonotal hairs greatly reduced.

**Litometopa glabrifrons n. sp.**

Species with glabrous, polished black front and elongated, shining, relatively bare thorax.

Male, female: Shining black, only the basal two-thirds of the palpi, the halteres, and legs in part, yellow; fore coxae, all trochanters and knees, mid and hind tibiae, and mid and hind tarsii except for two distal segments, deep yellow, the fore tibiae and tarsi black; distal two-fifths of fore femora and mid and hind tibiae chiefly black in Litometopa and one paratype, yellow in others.

Head polished black; front smooth, 1.4 times as long as broad, glabrous, without interfrontal stripes or hairs, and only two or three weak hairs on the orbits near the orbital bristles; cheeks narrow, each 0.4 times the breadth of a third antennal segment and 0.1 times the height of an eye; antennae small, third segments orbicular, aristae microscopically pubescent; bristles strong.

Mesonotum almost bare of hairs, with only the two dorsoventral rows and a median row of mesonotal bristles present.

Abdomen slender and elongate; segments 1 through 4 subshining above, their sides and segment 5 polished.

Length, 3 mm.

Holotype, male, allotype, female, and two paratype males, Marangu, the holotype collected 17. III. 1959, the others 10. III. 1959.

**Family Chloropidae**

**Subfamily Chloropinae**

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**Meromyza capensis**

Loew 1939.

Two females, Makoa, 11. II. 1959.

**Pachylophus indomatus**

Loew 1878.

Male, female, Livingstone, Northern Rhodesia, 16.—20. XI. 1958.

**Pachylophus lugens**

Loew 1878.

Two females, Makoa, 11. II. 1959.

**Pachylophus proximus**

Adams 1878.

Male, female, Makoa, 22. I. (? 1959) and 10.—20. II. 1959.

**Pachylophus punctifer**

Sabrosky 1937.


**Metopostigma teuniseta**

Loew 1878.

Female, Makoa, 10. II. 1959, "b. Kaffeevichlappers-".

**Bathyparia praecera**

Lamb 1937.


The available evidence on this rarely recorded species suggests that it is a litto lar form.

**Chloropus laevigatus**


**Madisa laevigatus**

Fallén was referred to Chloropus by Melian in 1830, but is now in Haplega as a synonym of H. tarsata (Fallén). The homonymy was secondary and no longer exists; hence C. laevigatus Becker is not considered to be preoccupied.

**Parectecephala**

(Conspicua Becker)


Becker's species was described from Ethiopia. I have no material for comparison, but the description and a few old notes on the type show no differences that I would regard as reliable.

**Lagaroceras insufficat**


**Lagaroceras pulchellum**


Two females, Marangu, 8. and 15. III. 1959.

**Lagaroceras sp. (Papaculum Becker)**

Two females, Marangu, 15. III. 1959, "b. Kaffeevichlappers-".