Verys to the Disect of the European Part of the USSR I Part Two

# 91. Family MILICHIDAE

(A.A. Shtakel'berg)

Small, predominantly dark-colored flies (Fig. 701). Head more or less round. pvt convergent, parallel, or divergent; vi well developed. At least anter. or directed toward outer side. Irregular fr always present medially, but in small numbers (usually two on each side of frons). Interfrontal br. present. Legs simple; rarely t, greately broadened (males of Leptometopa). C with two interruptions—near Sc and distal to humeral crossvein; A not developed.

References. Hennig. 1937. Milichiidae and Carnidae. In Lindner, 6, 1, 60a, 1-91.

#### Key to Genera

- 1 (4). Wings at point of interruption in C near  $R_1$  with relatively deep notch; Sc ending in C near proximal end of notch (Fig. 702, l).

- 4 (1). Wings at point of interruption in C near  $R_1$  without notch (Fig. 702, 2).
- 5 (14). pvt divergent or cruciate (Fig. 702, 3). Labella always more or less elongated. vi much larger than oral br.
- 7 (6). Two or. Third section of C longer than fourth section.
- 8 (9). Th. usually, as well as abd., lustrous black, without coating.

  Frons, including interfrontal stripe, also lustrous black.....

  7. Madiza Fll.
- 9 (8). Th. and abd. with dense gray or brownish pollinosity, not glossy. Frons matt.
- 357 10 (11). Frons with two gray, pollinose, matt interfrontal (longitudinal) stripes with br. differing sharply in color from

Europe (Hungary). hungarica Czerny.

Vestern Europe, 10

e. Eyes oval. Height is (Fig. 700, 8). Face 2.0. Central belt of maritima, Calyctegia... T. ta Haliday.ck.

ienae very high [sic]; s. Body 2.0 to 3.5. pe, northern Africa...... T. cinerea Lw. led. Height of genae to 2.5. Central Asia rope... T. grisea Fll.

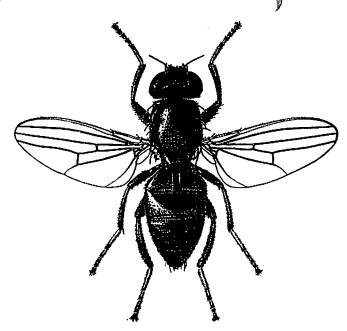


Fig. 701. Madiza glabra Fll. (Milichiidae), male (from Shtakel'berg).

- 11 (10). Frons without gray, pollinose interfrontal longitudinal stripes; if gray longitudinal stripes present on frons, number three (one median and two lateral along margins of eyes).

  Antennal bases distinctly separated by keel.

- 14 (5). pvt parallel or divergent (Fig. 702, 5). Labella not elongated. vi not differing in size from oral br.
- 15 (16). Terg. and stern. well developed (covering all of abd.). Wings always present; tp developed (Fig. 702, 6)...8. Meoneura Rd.

#### Key to Species of Family Milichiidae

### 1. Milichia Mg. (two species)

- 1 (2). Body monochromatic black; th. and abd. with weak brownish pollinosity. Body 2.5 to 3.0. Northwest. Western Europe....

  M. ludens Wahlberg.

## 2. Milichiella Giglio-Tos (one species)

1 (1). Body black. Abd. in male on dor. side with silvery white coating. Legs black; tarsi yellow. Body 3.0. Northwest (Leningrad prov.); southern Primor'e. Central belt of Western Europe. On trunks of old aspen...M. argyrogaster Perris.

### 358 3. Phyllomyza Fll. (four to five species)

- 1 (4). Four pairs of dc.

- 4 (1). Two to three pairs of dc.

## 4. Desmometopa Lw. (three species)

1 (2). Height of genae one-third height of eyes. Palpi black only at

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apex, remaining part light reddish yellow. Msn., stl., and abd. black, with dense gray coating. Wings milk-white. Body 1.5 to 2.0. Northwest, southeast. Western Europe, northern Africa.

D. m-nigrum Ztt.

2 (1). Height of genae not more than one-fifth height of eyes (Fig. 703, 2). Palpi either throughout length, or for most part black (only bases sometimes yellow).

3 (4). Knob of halteres and tarsi, except for 5th segment, reddish yellow. Palpi yellow near base. Genae reddish. Body 2.0. Extreme south; Central Asia. South of Western Europe;

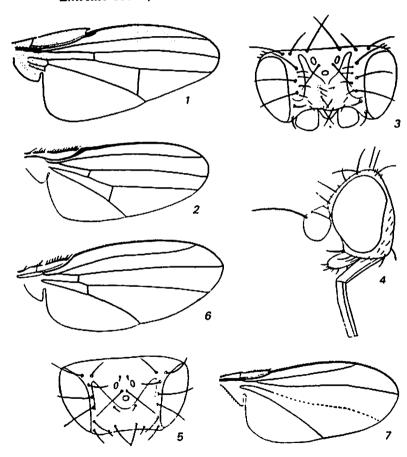


Fig. 702. Milichiidae (from Hennig).

I—Milichia speciosa Mg., wing; 2—Desmometopa m-nigrum Ztt., same; 3—Phyllomyza securicornis Fll., head, dorsal view; 4—Neophyllomyza acyglossa leanderi Hendel, same, in profile; 5 and 6—Meoneura obscurella Fll.: 5—same, lateral view, 6—wing; 7—Carnus hemapterus Nitzsch, same.

## 5. Neophyllomyza Melander (one species)

#### 6. Leptometopa Beck.

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Wings milk-white. Three species.

- 2 (1). Mpl. bare. One or two pteropleural br.  $t_3$  of male broadened notably.

#### 7. Madiza Fll. (one species)

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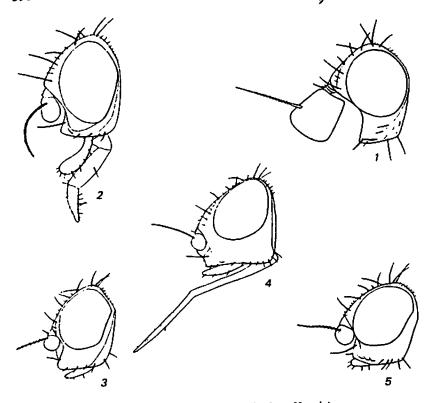


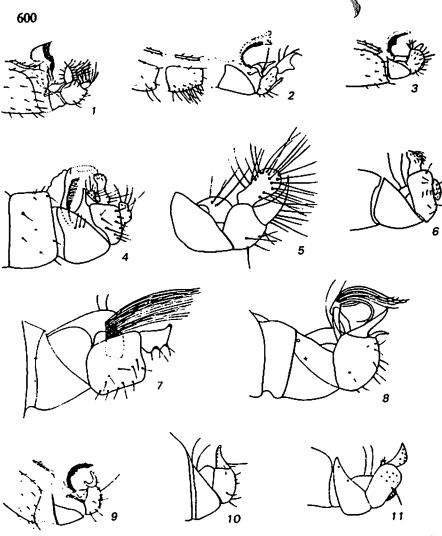
Fig. 703. Milichiidae. Head in profile (from Hennig).

1—Phyllomyza securicornis Fll., male; 2—Desmometopa sordidum Fll.; 3—Leptometopa niveipennis Strobl; 4—L. rufifrons Beck.; 5—L. latipes Mg.

# 8. Meoneura Rd. (10 to 11 species)

- 2 (1). Three to four pairs of dc.
- 3 (4). Four pairs of dc. Terminal terg. of abd. in male, beginning from apical half of t 3, with broad longitudinal depression; along margin bearing long bristly hairs directed upward and medially. Vertical triangle extending beyond half of frons. Th. and abd. lustrous black. Cerci linear and narrow. Edites furcate at apex (Fig. 704, 2). Body 1.0. Northwest. Western Europe (Switzerland, England). Rare... M. minutissima Fil.

- 4 (3). Three pairs of dc. Terminal terg. of abd. in male simple, without longitudinal depression and without long hairs.
- 5 (6). Face, except for antennal sockets, upper part of genae, and anter. half of frons yellow. Vertical triangle reaching half height of frons. Msn. black, with slight grayish pollinosity. Abd. lustrous black. Cerci small. Edites small, conical, with rounded apex (Fig. 704, 3). Body 0.8 to 0.9. Northwest. Central belt of Western Europe...... M. flavifacies Collin.
- 6 (5). At least face (frontalia, margin of mouth) black.
- 7 (10). Vertical triangle not reaching midpoint of frons.
- 9 (8). Frons in anter. half bright yellow. Post. branch of edites triangular, slightly bent, pointed at apex (Fig. 704, 5). Body black; msn. with brownish gray coating. Legs black. Anter. branch of edites large, toward apex broadened slightly, with long hairs (Fig. 704, 5). Body 1.0. Northwest. Central belt of Western Europe. Nests of birds........ M. lamellata Collin.
- 10 (7). Vertical triangle reaching at least midpoint of frons; sometimes, however, extending to its anter. margin.
- 11 (18). Vertical triangle reaching midpoint of frons or slightly beyond it.
- 13 (12). Wings hyaline, not milk-white.
- 15 (14). From s in anter. half narrowly reddish yellow or entirely black.  $f_1$  before apex with two well developed pv.
- 16 (17). Frons in anter. part yellowish red. Body black; msn. with



361 Fig. 704. Meoneura (Milichiidae). Hypopygium, lateral view (from Hennig, Collin, and Frev).

1-M. vagans Fll.; 2-M. minutissima Fll.; 3-M. flavifacies Collin; 4-M. anceps Frey; 5-M. lamellata Collin; 6-M. lacteipennis Fll.; 7-M. obscurella Fll.; 8 -M. neotiophilla Collin; 9-M. bicuspidata Collin; 10-M. triangularis Collin; 11-M. neglecta Collin.

- 18 (11). Vertical triangle reaching anter. margin of frons.

## 9. Carnus Nitzsch (one species)