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On the Taxonomy of the Genus *Cryptonerva* LIOY, 1864

(Diptera, Chloropidae)

With 9 Figures

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Abstract. The Genus *Cryptonerva* is divided into two subgenera: *Neohaplegis* subg. n. and *Cryptonerva* s. str. on the basis of external features including male genitalia of four Bulgarian species. *Cryptonerva tarsata* var. *glabra* (DUDA) is given specific status *Cryptonerva glabra* (DUDA) **stat. n.**

DUDA (1933) incorporated in genus *Cryptonerva* LIOY, 1864 (= *Haplegis* LOEW, 1866) 6 species and one variety: *C. obscuripennis* (LOEW), *C. flavitarsis* (MEIGEN), *C. consimilis* (COLLIN), *C. nigratarsis* (DUDA), *C. diadema* (MEIGEN) and *C. tarsata* (FALLÉN) as well as *C. tarsata* var. *glabra* (DUDA). HAPЧУК (1970) synonymized *C. consimilis* (= *C. flavitarsis*) and *C. nigratarsis* (= *C. flavitarsis*). Thus, the genus incorporates four species and one variety. Three species, *C. diadema*, *C. flavitarsis*, *C. tarsata* and one variety, *C. tarsata* var. *glabra*, have been established in Bulgaria.

The synonymy and characteristics of the genus were discussed in detail by ANDERSSON (1977) and will not be presented herein. The detailed analysis of important taxonomic features of the genus such as the head bristles, the wing venation and the male genitalia revealed that these features exclude one another in the particular species: bristles vti almost equal to vte or considerably shorter; d and ta-tp of the wings relatively long or short; male genitalia with complex basiphallus and short postgonites or basiphallus simple and postgonites almost as long as pregonites. These differences are presented to a certain extent in the species key table by HAPЧУК (1970). On the basis of the above features the species from Bulgaria are divided into two well distinguished groups with subgeneric status. Thus, the genus *Cryptonerva* has the following structure:

Genus *Cryptonerva* LIOY, 1864

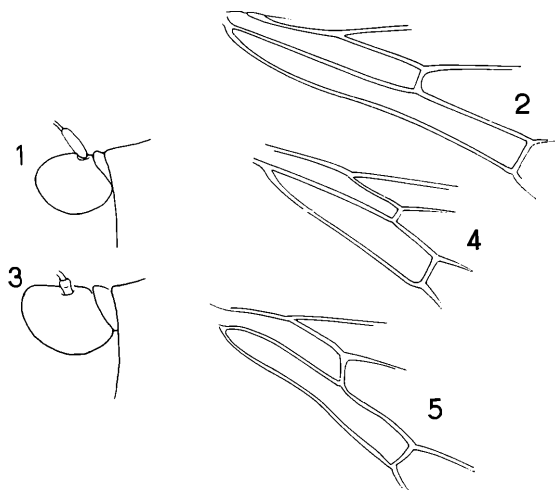
Cryptonerva LIOY, 1864, p. 1125. Atti Ist. Veneto (3) 9: 1087–1126. — ANDERSSON, 1977, p. 158–159. Ent. Scand., Suppl. 8: 200 pp. — *Haplegis* LOEW, 1866, p. 22. Ztschr. f. Ent. d. V. f. Schles. Insektenkd. Breslau XX. — BECKER, 1910, p. 60. Arch. zool. 10, I: 33–174. — DUDA, 1933, p. 128–132. In: Lindner, Die Fliegen der paläarktischen Region, VI, 61. Chloropidae, 248 pp. — HAPЧУК, 1970, p. 431. Определитель насекомых европейской части СССР, т. V, II, 399–439.

Type-species: *Chlorops flavitarsis* MEIGEN, 1830

Subgenus *Neohaplegis* subgen. n.

Type species: *Oscinis tarsata* FALLÉN, 1820

Ant₃ rounded, vti almost as long as vte. Wings grayish. R₄₊₅ and M₁₊₂ parallel, d elongated and ta-tp more than twice longer than tp (Figs. 1, 2, 5). Male genitalia with simple gonites and aedeagus. Pregonites and postgonites almost of equal lengths. Apical end of pregonites and proximal end of postgonites overlapping by up to 1/3 of their lengths and tending towards parallel positions (Figs. 6, 7). Except by the external



Figs. 1–5. Antennae and wings.

1+2: *Cryptonerva* (*Neohaplegis*) *tarsata* (FALLÉN). 1: ant₃, 2: d. — 3+4: *Cryptonerva* (*Cryptonerva*) *flavitarsis* (MEIGEN). 3: ant₃, 4: d. — 5: *Cryptonerva* (*Neohaplegis*) *glabra* (DUDA): d.

features described by DUDA (1933) *Cryptonerva* (*Neohaplegis*) *tarsata* var. *glabra* (DUDA) differs from the nominate form by the peculiarities of the surstyli, cerci and postgonites (Figs. 6, 7). On this basis I give the variety the specific status — *Cryptonerva* (*Neohaplegis*) *glabra* (DUDA) **stat. n.**

Studied material from Bulgaria *Cryptonerva* (*Neohaplegis*) *tarsata* (FALLÉN) and *C. (N.) glabra* (DUDA).

Subgenus **Cryptonerva** LIOY, 1864

Type-species: *Chlorops flavitarsis* (MEIGEN), 1830

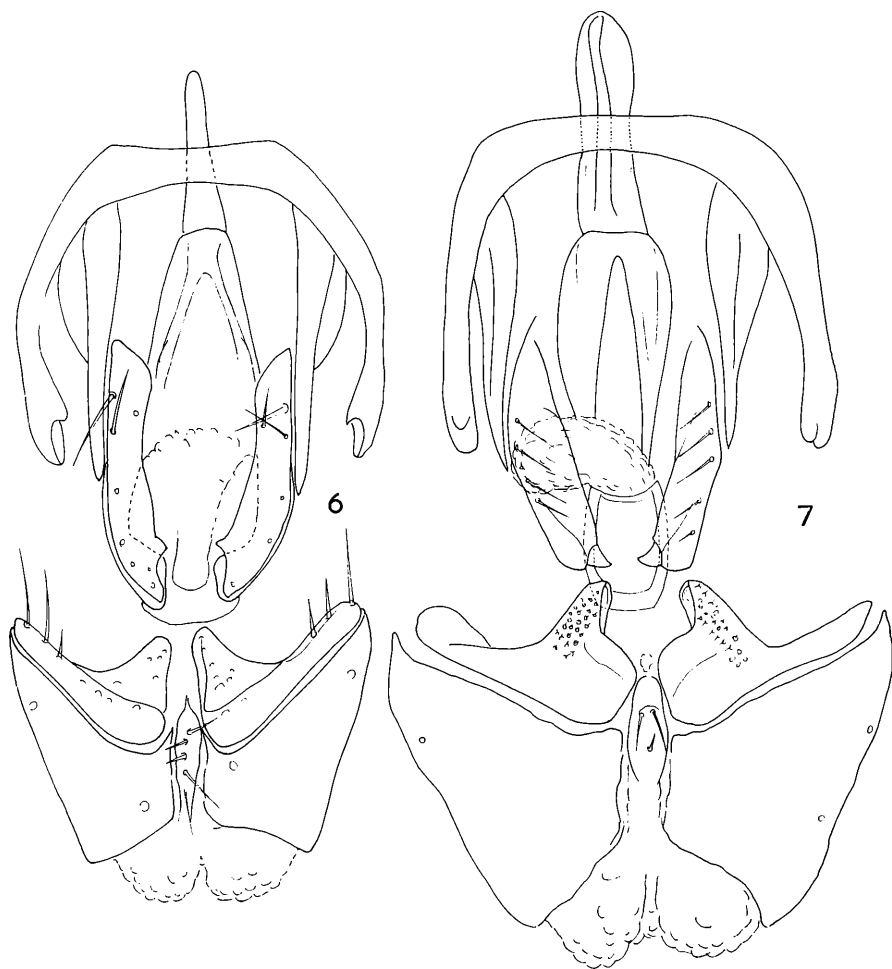
Ant₃ with straight upper margin and well shaped anterodorsal corner (Fig. 3). Vte obviously longer than vti. Wings whitish. R₄₊₅ and M₁₊₂ divergating towards apex. d short, ta-tp not more than 1.5 times longer than tp (Fig. 4). Male genitalia with peculiar structure: pregonites and postgonites arranged alternatively. Pregonites considerably elongated at the expanse of postgonites (Figs. 8, 9). Basiphallus with additional chitinous projections. Distiphallus elongated, ventrally partitioned and with short spines. This peculiarity of the aedeagus is a rather isolated and specific feature of the subgenus.

Material studied: *Cryptonerva* (*Cryptonerva*) *flavitarsis* (MEIGEN) and *C. (C.) diadema* (MEIGEN).

Key to subgenera and species of genus *Cryptonerva* LIOY

- 1 (4) Ant₃ with straight upper margin and well shaped anterodorsal corner (Fig. 3). Wings whitish. R₄₊₅ and M₁₊₂ divergating towards apex. ta-tp not more than 1.5 times longer than tp (Fig. 4). Male genitalia with complex aedeagus (Figs. 8, 9).
Subgenus **Cryptonerva** LIOY

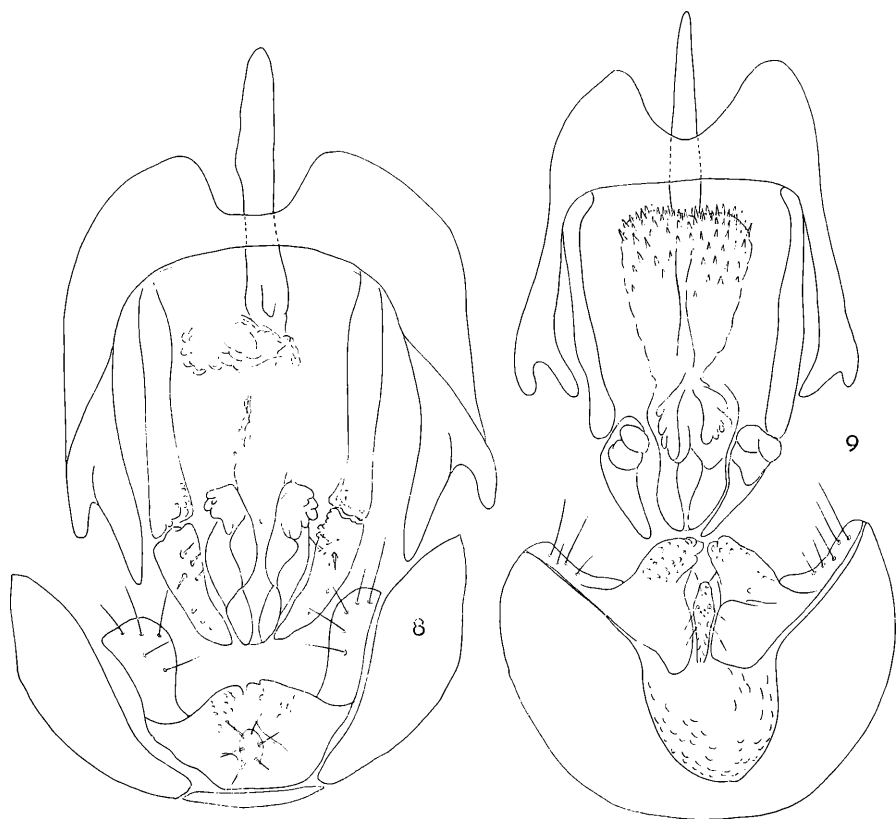
- 2 (3) Antennae and frons black. Tarsi yellow, only last tarsal articles dark. Male genitalia: Fig. 8.
C. (C.) flavitarsis (FALLÉN)



Figs. 6+7. Male genitalia, ventral view.

6: *Cryptonerva (Neohaplegis) tarsata* (FALLÉN) — 7: *Cryptonerva (Neohaplegis) glabra* (DUDA)

- 3 (2) Antennae and frons yellow or red-brown in their first halves. Ant₃ sometimes dark on the upper side. Male genitalia: Fig. 9. C. (C.) **diadema** (MEIGEN)
- 4 (1) Ant₃ rounded. Wings gray-shaded. R₄₊₅ and M₁₊₂ almost parallel. ta-tp two or more times longer than tp. Male genitalia without peculiarities (Figs. 1, 2, 5, 6, 7). Subgenus **Neohaplegis** subg. n.
- 5 (6) Fr. tr. finely shagreened, dusted. Trochanters yellow. ta and tp parallel (Fig. 2). Male genitalia: Fig. 6. C. (N.) **tarsata** (FALLÉN)
- 6 (5) Fr. tr. shining. Trochanters black. ta and tp convergating anteriorly (Fig. 5). Male genitalia: Fig. 7. C. (N.) **glabra** (DUDA) stat. n.



Figs. 8+9. Male genitalia, ventral view.

8: *Cryptonerva* (*Cryptonerva*) *flavitarsis* (MEIGEN) — 9: *Cryptonerva* (*Cryptonerva*) *diadema* (MEIGEN)

References

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