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A gynandromorph specimen of *Lepidostoma hirtum* (FABRICIUS, 1775) from Turkey (Trichoptera, Lepidostomatidae)

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Abstract. A gynandromorph specimen of *Lepidostoma hirtum* (Fabricius, 1775) collected from southern Turkey is described and illustrated. Most parts of the head of this specimen show male characters and the rest of the body is typical of the female.

Key words. Gynandromorphism, Trichoptera, *Lepidostoma*, Turkey.

Gynandromorphism, the occurrence of both male and female characteristics in an individual, appears in many insect orders. This phenomenon may originate from oogenetic anomalies, fecundation anomalies or cytogenetic aberrations such as the loss of the X chromosome or accidental meiosis during the first divisions of a normal female zygote (Martini & al. 1999). In Trichoptera, it is rather rare; only five cases have been reported (McLachlan 1878-80; Schmid 1956; Mey 1982; Abbott & al. 1984; Bochert & Bochert 2005) Here, the sixth case of gynandromorphy is described, occurring in a female of *Lepidostoma hirtum* (Fabricius 1775), collected from the Taurus Mountains in southern Turkey.

Lepidostoma hirtum is widely distributed in Europe and Turkey, and is found in the Caucasus and Turkestan. The female and male of this species show sexual dimorphism which is seen in the antennae. The male scapus is shorter and stouter than that of female; the rest of the antennal segments are also thicker. The maxillary palps of the male are three segmented; the third segment is large and broad, the upper part is curved inside. The maxillary palps, scapus, the dorsal part of the head, and the forewings of the male are covered with black scales. The gynandromorph specimen found in Taurus Mountains exhibits both anterior and bilateral gynandromorphism, which is restricted to the head. The antennae show bilateral gynandromorphism.

Material examined. Turkey, Konya, Hadim, Dedemli, 17.7.2006 (at light), 37°01'N, 32°24'E, 45 males, 536 females plus 1 gynandromorph female, leg. and coll. Sipahiler.

Head: Left maxillary palp is that of a male; left scapus and the rest of the antennal segments are typical of males; right maxillary palp is abnormal: basal part has male characteristics, three segmented, the third segment is smaller than normal; without the upper lobe, curving inside; the four segmented palp is connected in the middle of the inner surface, of which the fourth segment is curved. The right scapus and the rest of the antennal segments are typical of females. The head dorsally has black scales which are found only in males. The thorax, wings, legs, abdomen and the genitalia are wholly female. The eggs were not found in the abdomen.

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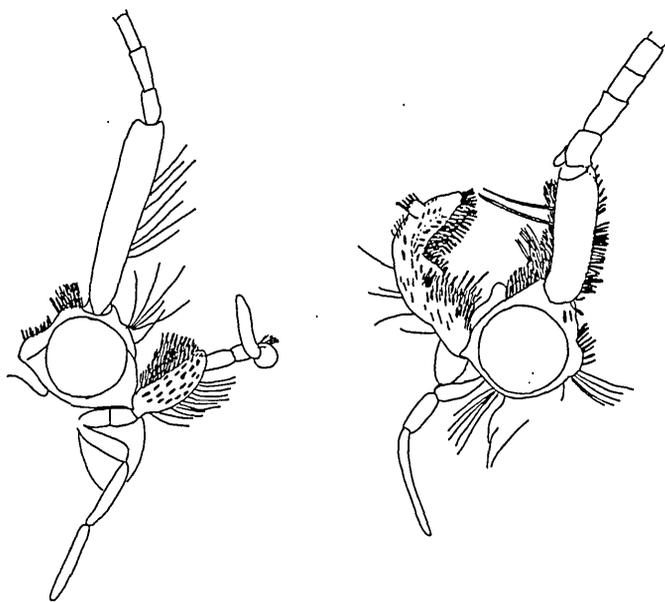
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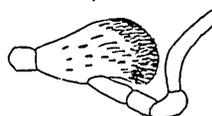
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Head right and left side, lateral view:



Right maxillary palp, ventral view



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