

Chirothrips manicatus

Distinguishing features

Female fully winged. Body brown, fore wings light brown. Antennae 8-segmented; segment II with external margin prolonged and bearing a terminal seta-like sensorium; III–IV each with stout simple sense cone. Head small, prolonged in front of eyes; 3 pairs of ocellar setae present, pair III anterolateral to fore ocellus. Pronotum trapezoidal, with 2 pairs of posteroangular setae. Metanotum reticulate, sculpture forming arches around posterior midpoint; median setae smaller than lateral pair. Meso and metasternal furca with well-developed lateral flanges, without spinula. Fore wing pointed at apex; first vein with 2 setae on distal half, second vein with 4 setae. Tergites with antecostal ridge strong, complete lines of sculpture medially; posterior margins with entire but weakly lobed craspedum; ovipositor weak with faint teeth. Sternites with 3 pairs of marginal setae, posterior margins with craspedum of distinctive tubercles. Male with wing lobe minute. Head without ocelli; metanotum transverse; tergites with strong lines of sculpture medially; sternites III–VII with small circular pore plate.

Related species

zur Strassen (1960) provided identification keys to over 50 species of *Chirothrips*, but Bhatti (1990) created six new genera for species previously placed in this genus. *Chirothrips* appears to be a genus of Holarctic species, whereas *Arorathrips* is from the New World. *C. manicatus* belongs to a group of mainly Old World species in which the head is not greatly prolonged in front of the eyes, the vertex bears few setae, and the external apex of antennal segment II bears an exactly terminal sensorium.

Biological data

The life cycle of each individual *Chirothrips*, from egg to pupa, occurs within an individual floret of various species of Poaceae, including cereal crops, but also of some Cyperaceae.

Distribution data

A European species that is widespread around the world in temperate regions

Family name

THRIPIDAE, THRIPINAE

Species name

Chirothrips manicatus (Haliday)

Original name and synonyms

Thrips (Chirothrips) manicatus Haliday, 1836: 444

Thrips longipennis Burmeister, 1838: 413

Chirothrips antennatus Osborn, 1883: 154

Chirothrips manicata adusta Uzel, 1895: 81

Chirothrips fusca Coesfeld, 1898: 474

Chirothrips similis Bagnall, 1909: 35

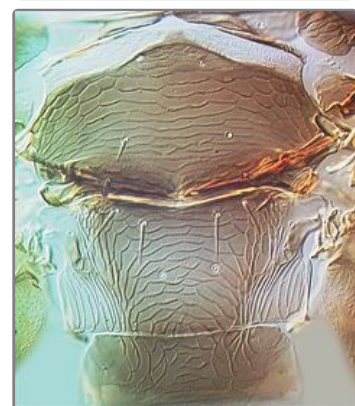
Chirothrips manicata Halid., forma *aptera* Schille, 1912: 4

Chirothrips albicornis Priesner, 1926: 140

Chirothrips ammophilae Bagnall, 1927: 564



Antenna



Meso & metanotum



Fore wing

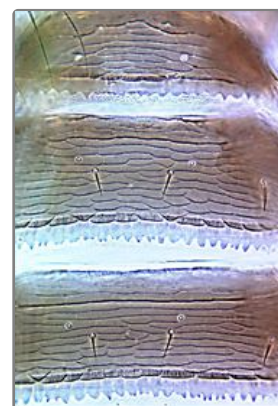
Chirothrips takahashii Moulton, 1928: 289
Chirothrips microptera Maltbaek, 1929: 373
Chirothrips brachyptera Maltbaek, 1929: 373
Chirothrips productus Bagnall, 1932: 184
Chirothrips ambulans Bagnall, 1932: 185
Chirothrips laingi Bagnall, 1932: 185
Chirothrips testacea Hukkinen, 1935: 90
Chirothrips bagnalli Hood, 1938: 162
Chirothrips longisetis Priesner, 1949: 170

References

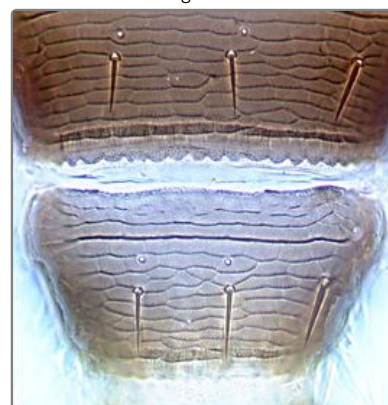
Bhatti JS (1990) On some genera related to *Chirothrips* (Insecta: Terebrantia: Thripidae). *Zoology (Journal of Pure and Applied Zoology)* 2: 194–200.

Minaei K & Mound L (2010) Grass-flower thrips of the genus *Chirothrips* (Thysanoptera: Thripidae), with a key to species from Iran. *Zootaxa* 2411: 33–43

zur Strassen R (1960) Key to and catalogue of the known species of *Chirothrips* Haliday, 1836 (Thysanoptera: Thripidae). *Journal of the Entomological Society of southern Africa* 23: 144–176.



Tergites I-III



Tergites VII-VIII