

# Chirothrips manicatus

## Distinguishing features

Female fully winged (rarely micropterous), but variable in size. Body, antennae and legs brown, tarsi paler, fore wings light brown. Antennae 8-segmented; segment II asymmetric with prolonged external margin bearing terminal seta-like sensorium; segments III–IV with sense cone simple and stout. Head small, prolonged in front of eyes with long preocellar area; 3 pairs of ocellar setae present, pair III anterolateral to fore ocellus; maxillary palps 3-segmented. Pronotum trapezoidal, 2 pairs of prominent posteroangular setae. Metanotum reticulate, sculpture forming arches around posterior midpoint; median setae not at anterior margin, smaller than lateral pair. Fore wings pointed; first vein distal half with 2 setae, second vein with 4 setae. Abdominal tergites with transverse sculpture lines medially; posterior margin with craspedum of weak lobes; ovipositor weak with faint teeth. Posterior margin of sternites with distinctive tubercles.

Male micropterous, with minute wing lobe; head without ocelli; sternites III–VII with small circular pore plate.

## Related species

Currently there are 42 species worldwide placed in the genus *Chirothrips*. In contrast, zur Strassen (1960) treated the genus in a broad sense, with a key to 50 species, whereas Bhatti (1990b) placed several of the species into six new genera, and the generic classification was further reviewed by Nakahara & Footitt (2012). From Europe, zur Strassen (2003) recognised 14 species of *Chirothrips*, of which five have been taken in Britain. *C. manicatus* is very common in Britain, where it is the species of *Chirothrips* with antennal segment II produced outwards that is most likely to be encountered.

## Biological data

Each larva feeds and pupates within a single flower of its host plant, and these include Poaceae in several genera such as *Alopecurus*, *Dactylis* and *Poa* (Minaei & Mound, 2010).

## Distribution data

Abundant throughout Britain and the island of Ireland, and across the Holarctic Region (Mound *et al.*, 1976; O'Connor, 2008), but also introduced to Australia, New Zealand and Hawaii.

## Family name

THRIPIDAE - THRIPINAE

## Species name

*Chirothrips manicatus* (Haliday)

## Original name and synonyms

*Thrips (Chirothrips) manicatus* Haliday, 1836: 444

*Thrips longipennis* Burmeister, 1838: 413



Female



Male and female



Head & pronotum



Head & pronotum

*Chirothrips antennatus* Osborn, 1883: 154  
*Chirothrips manicata* var. *adusta* Uzel, 1895: 81  
*Chirothrips manicata* var. *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  
*Chirothrips takahashii* Moulton, 1928: 289  
*Chirothrips manicatus* f. *microptera* Maltbaek, 1929: 373  
*Chirothrips manicatus* f. *brachyptera* Maltbaek, 1929: 373  
*Chirothrips productus* Bagnall, 1932: 184  
*Chirothrips ambulans* Bagnall, 1932: 185  
*Chirothrips laingi* Bagnall, 1932: 185  
*Chirothrips manicatus* f. *testacea* Hukkinen, 1935: 90  
*Chirothrips bagnalli* Hood, 1938: 162  
*Chirothrips longisetis* Priesner, 1949: 170

## References

Bhatti JS (1990b) On some genera related to *Chirothrips* (Insecta: Terebrantia: Thripidae). *Zoology (Journal of Pure and Applied Zoology)* **2** (4) 193–200.

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

Mound LA, Morison GD, Pitkin BR & Palmer JM (1976) Thysanoptera. *Handbooks for the Identification of British Insects* **1** (11): 1–79.

Nakahara S & Footitt RG (2012) Review of *Chirothrips* and related genera (Thysanoptera: Thripidae) of the Americas, with descriptions of one new genus and four new species. *Zootaxa* **3251**: 1–29.

O'Connor JP (2008) A review of the Irish thrips (Thysanoptera). *Irish Naturalists' Journal* **29**: 20–24.

zur Strassen R (1960) Key to and catalogue of the known species of *Chirothrips* Haliday, 1836 (Thysanoptera: Thripidae). *Journal of the Entomological Society of South Africa* **23** (1): 144–176.

zur Strassen R (2003) Die terebranten Thysanopteren Europas und des Mittelmeer-Gebietes. *Die Tierwelt Deutschlands* **74**: 1–271.



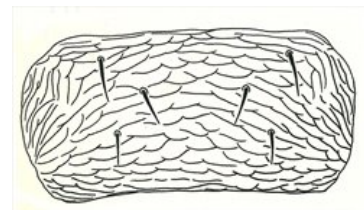
Antenna



Antenna



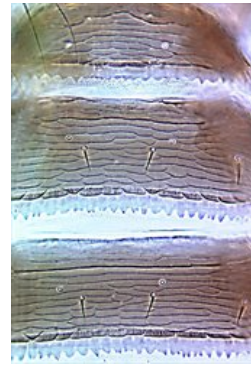
Meso & metanota



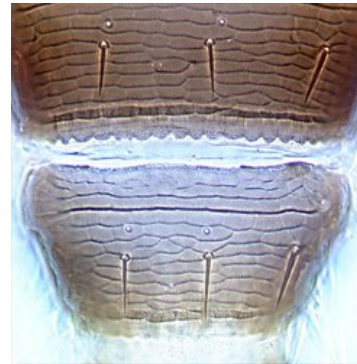
Microptera metanotum



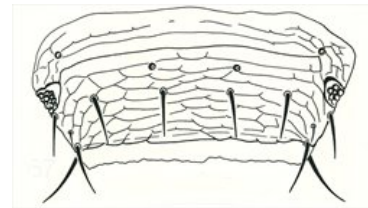
Thoracic sternites



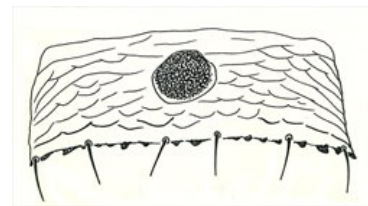
Female tergites I-III



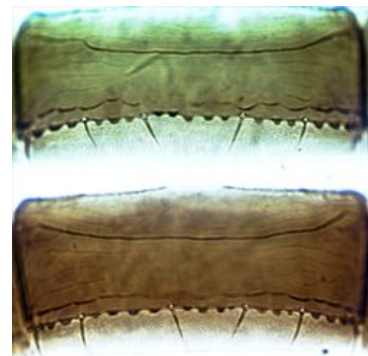
Female tergites VII-VIII



Female tergite VIII



Male pore plate



Sternites of female



Male sternites



Fore wing