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KEYS TO LONG-PALPED CRANEFLIES OTHER THAN TIPULA

### Genus CTENOPHORA

Spectacular species, to varying extents mimicing wasps and ichneumon wasps. Larvae live in dead wood.



 Tergites with any pattern based upon side spots, not strictly banded and often including orange areas.

pectinicornis

#### Genus DICTENIDIA (bimaculata)

The single species has a mainly black body and very distinctive wings bearing a dark strip across the wing below the stigma and a dark wing tip. Larvae live in dead wood.

Genus DOLICHOPEZA (albipes) [the white footed ghost]

The single species is blackish, with an open discal cell and mainly white tarsi. There is no other British cranefly of this description. Larvae live under moss and liverworts on vertical moist stream banks.

### Genus NEPHROTOMA [tiger craneflies]

The genus is characterised by yellow and black striped cranetlies, at least on top of the thorax. *Ctenophora flaveolata* has a yellow and black banded abdomen (but with the yellow bands at the posterior margin of the tergites) and two Cylindrotomidae (*Cylindrotoma* and *Diogna*) have a striped thorax.

The key is constructed so as to take out most of the common species early on. To allow for stigma variation, two species which rarely have a dark stigma are repeated.

Larvae are in dry and moist soil, especially sandy soils on dunes, heatns and river banks. Some occur in grassland, heages and woods on other soils.

Sharp cerci have a long taper to a point.

Blunt cerci are parallel-sided and ' rounded at the tip, even if superficially they seem pointed.

- 1. Wings with a pale stigma. 2 - Stigma dark. (intermediate or musetion cases repeated here). 5
- Pleurae with ill-defined weak markings. Male with longer outer clasper and sternite 8 broadly notched. Female with blumt cerci.
- Pleurae with sharply defined black markings. Male with shorter outer clasper and sternite 8 with almost straight hind margin bearing a projecting median tongue. Female cerci pointed.
- Side of thorax with a black inverted U-marking between the wing base and the haltere base. Tergites with a very broad stripe.
  - Side of thorax without such a marking. Tergites with a narrower dark stripe. [overall more brightly yellow species]
- Praescutum with median black stripe narrowly margined by a dull black strip. Top of head with a broad stripe. Tergites on lateral margins with spaced dark spots.
- Praescutum with median dark stripe entirely glossy. Top of head with a narrow stripe. Tergites on lateral margin with streaky marks forming a semi-continuous stripe.
- Abdomen with yellow and black bands, the mid-line front of each tergite being broadly yellow (as seen from above)
- Abaomen with a dark mealan stripe or spots, any yellow breaks at front of tergites being minor.

58





scurra

58

79

appendiculata

submaculosa

b



-3-

-4-



- 5 -

-6-

- 2A Pleurae with mainly orange brown markings (any black marks illdefined).
- Pleurae some with sharply defined black markings.
- 26. Praescutum on top with lateral stripes partly fused with median stripe. [otherwise similar to appendiculata; very rare
- Praescutim with stripes completely separated. [keyed here for exceptional specimens with dark stigma]

## Genus NICROTIPULA (nigra)

The single species is characteristically chocolate brown with plain brownish wings. There are no Tipula of this description with a hairy postnotum so Nigrotipula is readily recognised in both sexes.

# Genus PRIONOCERA

There are three grey species, bearing a dark median stripe on the abdomen, and the wings are rather plain (apart from a weak whitish lunule below the stigma), and hence resembling Tipula (Acutipula) luna. The genus is distinct in that the flagellae are rather servate and lack whoris or long bristles. The larvae are aquatic in pond margins, carr and bogs.

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### Key to males

- 1. Tergite 9 with four strong pointed norozontal processes, the inner pair close together and splayed. [Inner clasper with basal projection giving adjustable-spanner profile]
- Tergite 9 with two or four shorter upturned processes, with a wide gap between those nearest the mid-line.



f cornicina

1 sullingtonensis

2 appendiculata

25

- 2. Te :e 9 with 4 small pointed projections, plus a rectanglar median plate.. [Inner clasper bulbous at base before slender beak] [rare]
- Tergite 9 with only 2 pointed processes (but take care not to add features on sternite 10); the hind margin of the tergite comes to a median point (as in turcica) but the splayed projections are much further apart. [Inner clasper long tapering] [rare]

### Key to females

Note that sternite 8 has a large dorsal flap, a useful cross-check it the antennae are missing. No Tipula of similar colour have this flap.

- 1. Tergite 8 with black hairs at sides (view from above and take care of lighting - pale hairs can look black at some angles). [rare]
- Tergites 8 with pale hairs at sides. (view from above and take care of lighting - black hairs can look pale at some angles).

Little material of pubescens is available. The wings are weakly tinged. P. turcica is variable but usually has much more strongly tinged wings. For the present it is best to rely on males for this species pair and to keep vouchers if only females can be obtained at a locality.

### Genus TANYPTERA

The two species have shining black bodies, with or without some red on the abdomen. The long saber-like ovipositor looks fearsome on these large ichneumon-wasp mimics. These are scarce species that breed in dead wood.

- 1. Trochanters orange. Male tergite 9 underlain by large tlanges. Female tergites 1-3 usually mainly red.
  - Trochanters black. Male tergite 9 underlain by small pointed hidden processes. Female tergites 1-2 usually mainly red.



> pubescens





2 pupescens/turcica

K hidde T9

60 X .

track

atrata