# Identifying soldierflies and allies: horseflies (clegs) in genus *Haematopota*

Compiled by Martin C. Harvey for the Soldierflies and Allies Recording Scheme

Version 1 at 9 January 2022

These guides are only possible thanks to the generosity of the brilliant photographers who have allowed their images to be used. Special thanks to Steven Falk, whose photo collections form the backbone for this species guide:

#### Steven Falk's photo collections on Flickr

Other photos included in this guide are by Andy Grayson, Janet Graham and Martin Harvey, some using specimens from the Natural History Museum in London, taken with the photo-stacking camera equipment in the Angela Marmont Centre at the NHM.

Males are shown first, one page for each species, then females. The two common species (*H. crassicornis* and *H. pluvialis*) are shown first. The pages for males include distribution maps taken from the recording scheme's provisional atlas (Harvey 2017).

As far as possible, these guides show features that can be seen on live insects in the field, or are likely to be visible in photographs. For comprehensive identification keys and species accounts see <u>British</u> <u>soldierflies and their allies</u>, by Alan Stubbs and Martin Drake. See also the recording scheme's <u>additional notes</u> to accompany the Stubbs and Drake keys.

For lots more information on soldierflies and allies go to the recording scheme <u>website</u>, <u>Twitter</u> page or <u>Facebook</u> group.

For lots more information and events, and to support the study and conservation of flies, please consider joining Dipterists Forum.

#### Records wanted!

Once you have identified your fly, please let the recording scheme have the details!
Add to <u>iRecord</u> or send to the <u>recording scheme</u> so that we can share the records for conservation and research.

The Soldierflies and Allies Recording
Scheme is part of Dipterists Forum

For lots more information and events, and to consider joining Dipterists Forum.



The Soldierflies and Allies Recording Scheme is supported by the UKCEH Biological Records Centre



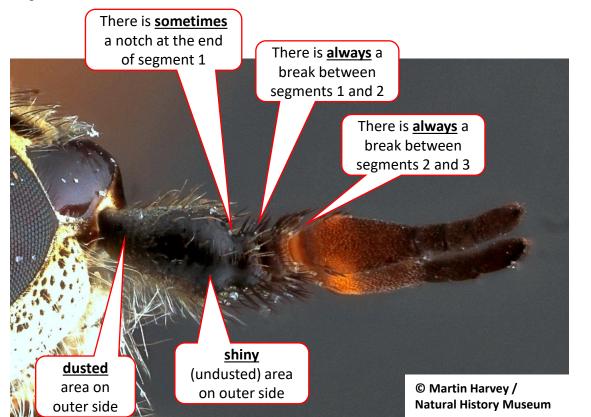
## Recognising the genus: Haematopota

The 'clegs' in genus *Haematopota* are part of the horsefly family Tabanidae, and unpopular with many people, due to the painful bites that females of some of the species can inflict on humans. There are five species confirmed from the UK, with the possibility that others could be here but not yet recognised.

As a genus *Haematopota* is fairly distinctive: medium-sized flies (7–13mm long) with colourful eye patterns and mottled grey markings on the wings. Identifying the species can be more of a challenge, and it is not always possible to confirm them from photographs. Specimens would be welcomed by the recording scheme for the three rarer species, and for any individual that doesn't seem to match the typical appearances.

For the best chance of identifying the species, photographs need to show the antennae as clearly and closely as possible, with a **directly side-on view**. The colours and patterns on the abdomen are also important features, but this can be very hard to observe on flies in the field, because the mottled wings obscure the abdomen markings. The colour of the femora is also a useful distinguishing feature for *H. bigoti*.

The antennae show some good characters for identification, especially in the females. **Take care** when examining the antennae for a 'notch' in the first segment – people often confuse this notch with the gap between the first and second segments. Also look out for how much greyish 'dusting' there is on the first segment.



There are two species that are frequent in many parts of the UK, both on the coast and inland, and these are the ones that most people see most of the time: *H. crassicornis* and *H. pluvialis*. **These are shown first in this guide**, with extra comparison pages for the males and females.

The other three species are mostly confined to coastal habitats: *H. bigoti, H. grandis* and *H. subcylindrica,* found in marshes, saltmarshes and grazing levels. *H. grandis* has occasionally been found inland.

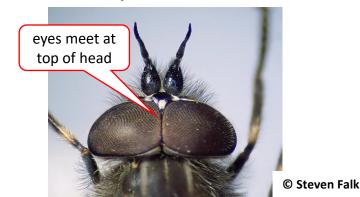
The inland *Haematopota* species are most often found in wet, marshy habitats, including grasslands, woodlands and uplands, the three coastal species are associated with saltmarsh and ditch systems. The larvae that are predators, usually found in wet soils, although *H. pluvialis* at least can develop in drier soils as well.

Female clegs, especially *H. pluvialis*, are well-known for being persistent biters of humans. The males do not need a blood meal, and may sometimes be found on flowers.

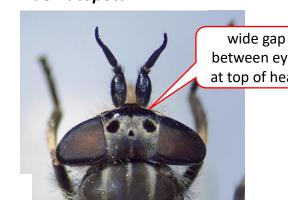
Typical appearance of female Haematopota

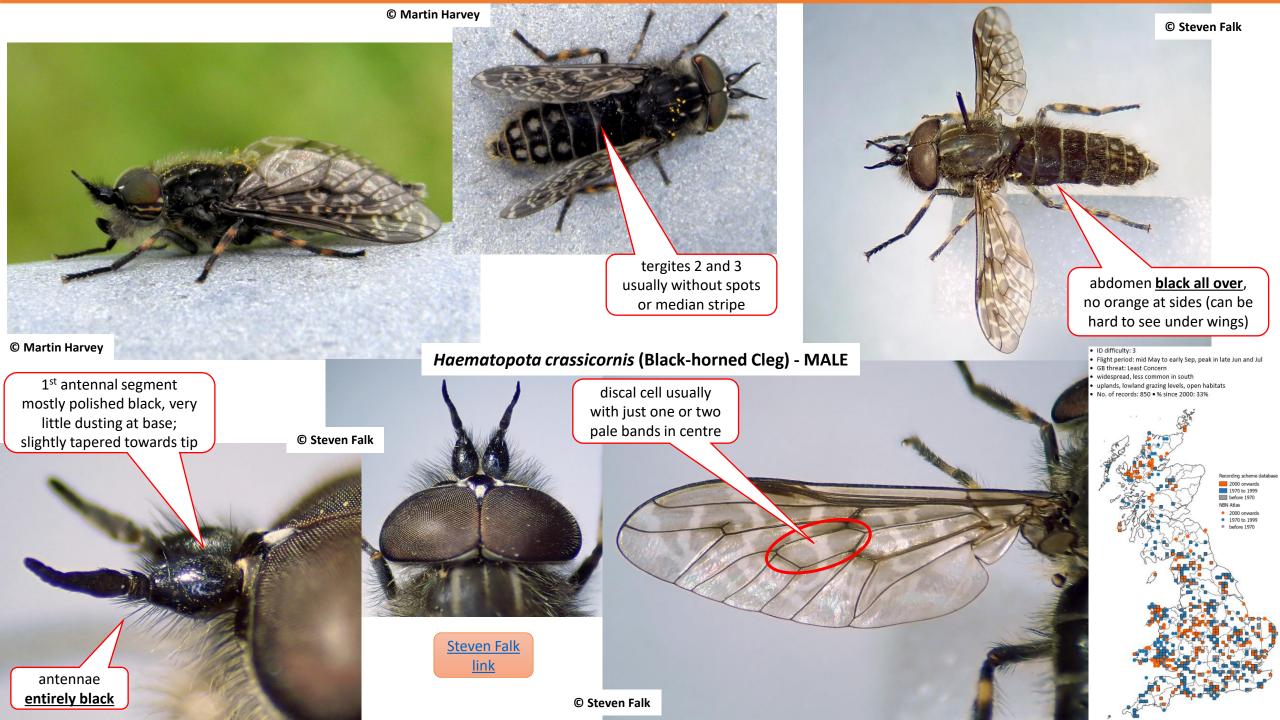


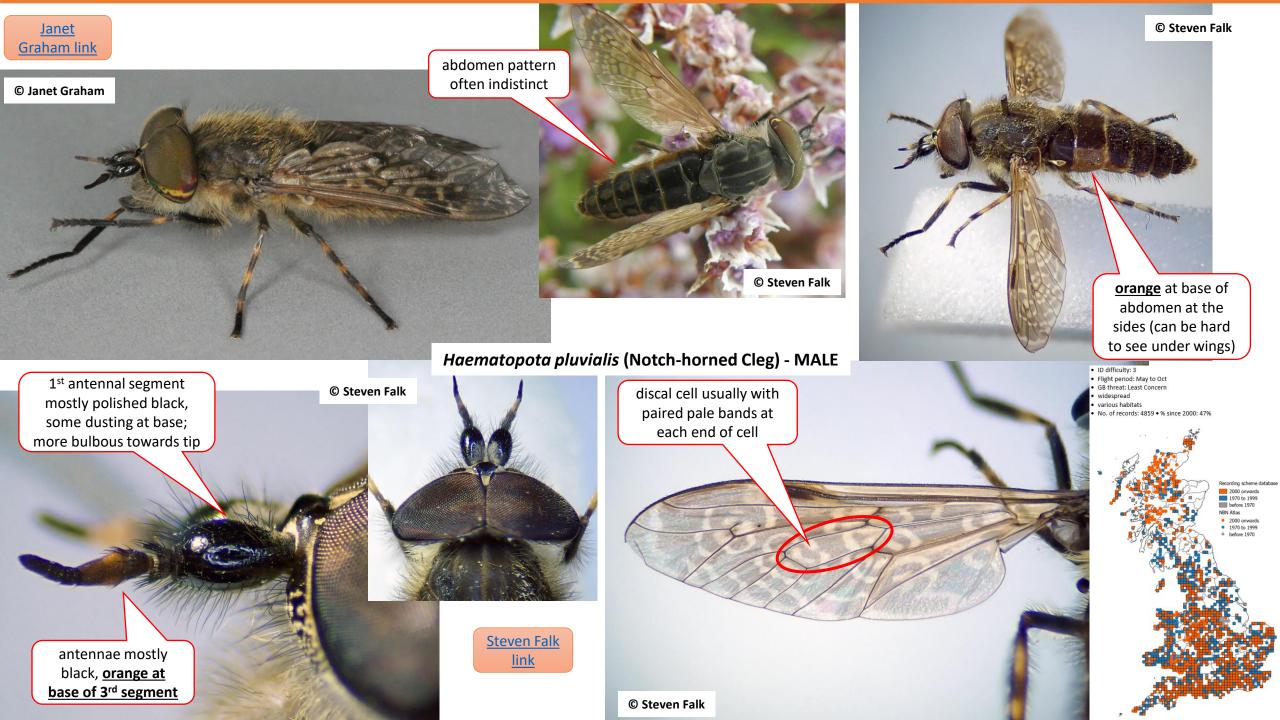
## Haematopota MALE



### Haematopota FEMALE





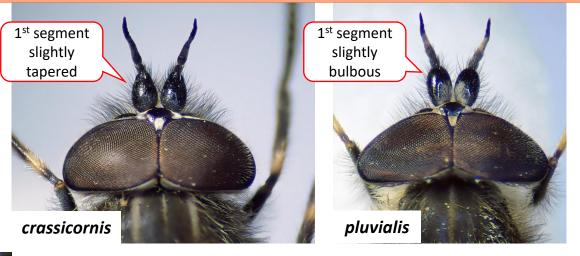


# COMPARISON of Haematopota crassicornis and Haematopota pluvialis MALES



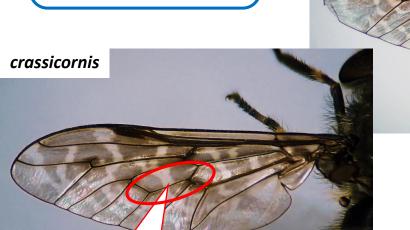


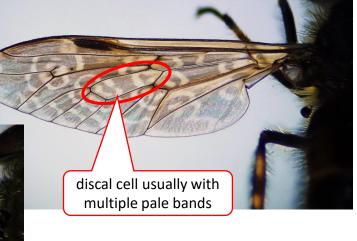
pluvialis

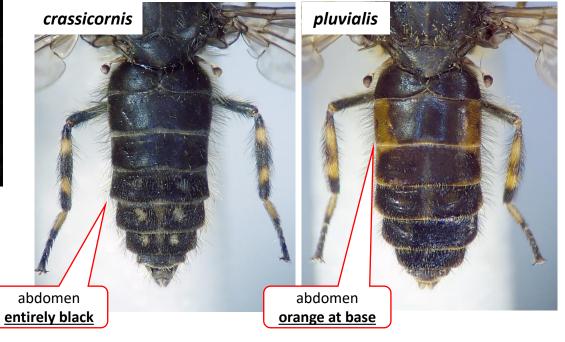


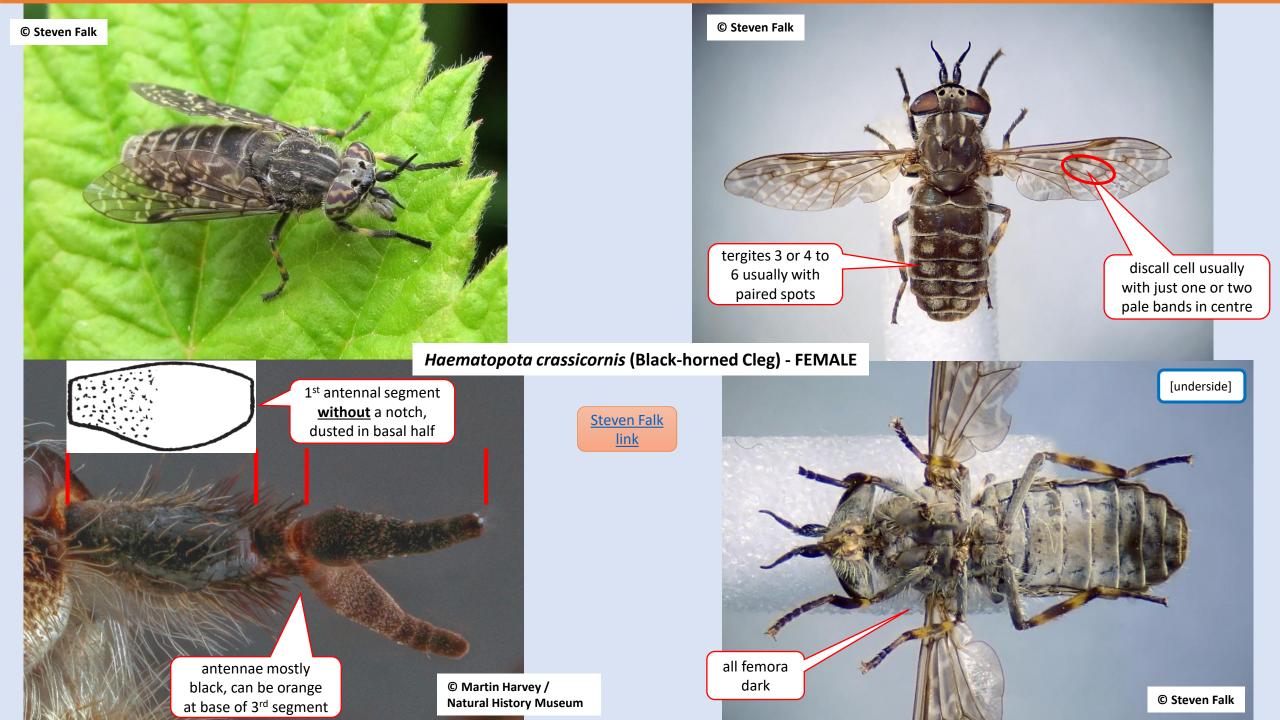
Warning!: none of these distinctions is 100% reliable on its own, but taking several together should give confidence in the identification

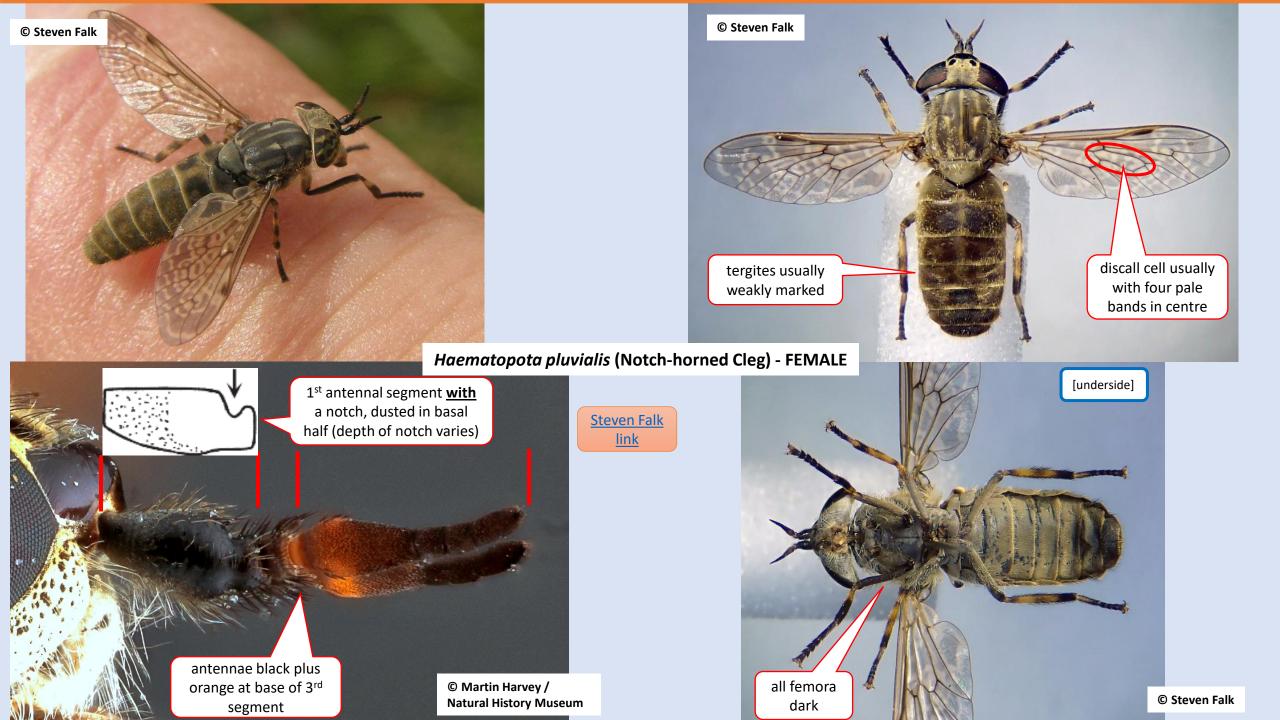
discal cell usually with 1–2 central pale bands





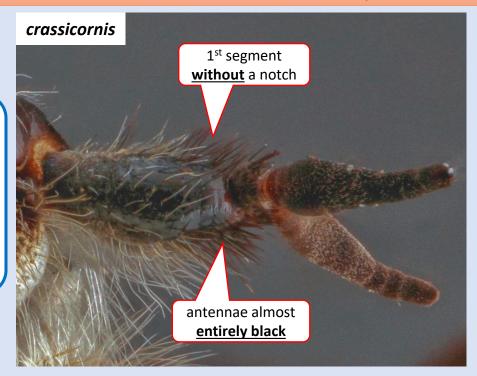


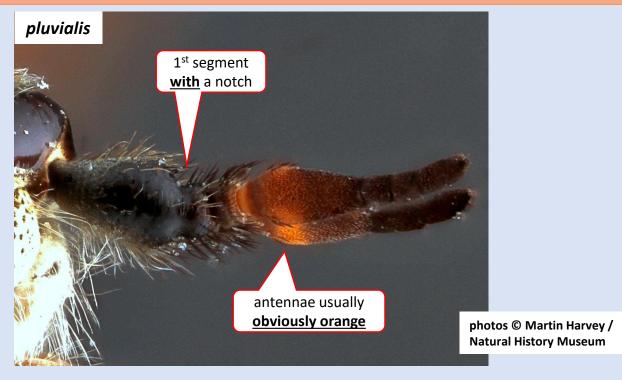


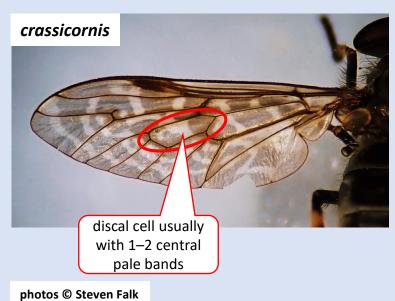


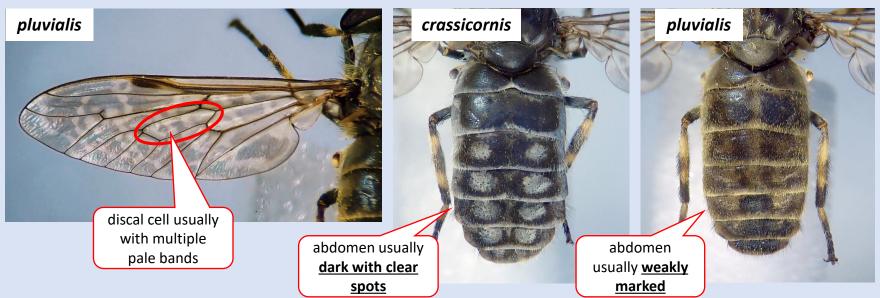
# COMPARISON of Haematopota crassicornis and Haematopota pluvialis FEMALES

Warning!: none of these distinctions is 100% reliable on its own, but taking several together should give confidence in the identification

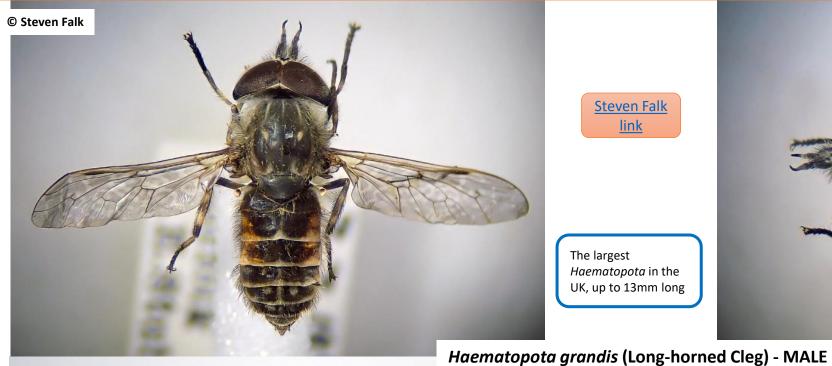












Steven Falk link

The largest Haematopota in the UK, up to 13mm long



• ID difficulty: 3

• Flight period: late Jun to Aug

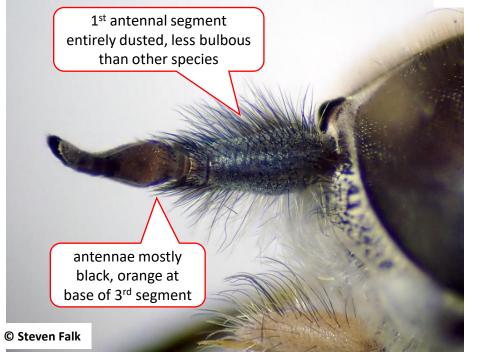
• GB threat: Least Concern • GB rarity: Nationally Scarce

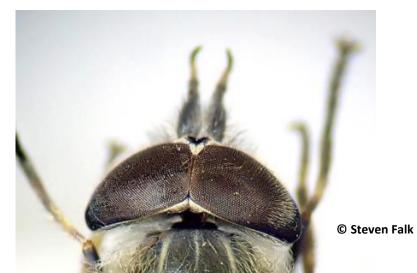
• mainly coastal, mostly south-east plus Wales, Surrey

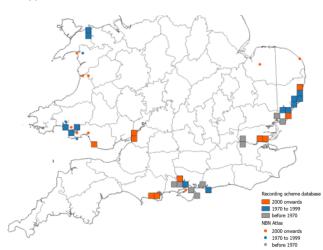
• saltmarsh, carr adjoining saltmarsh

• No. of records: 79 • % since 2000: 25%

• Caveats: a recent Surrey record (J. Early pers comm) is not yet mapped





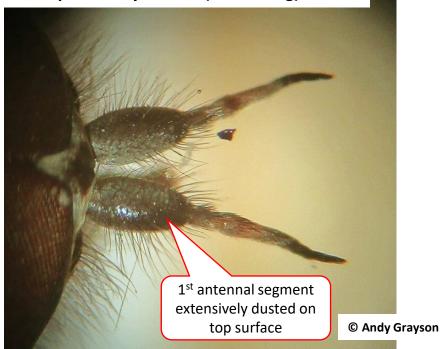




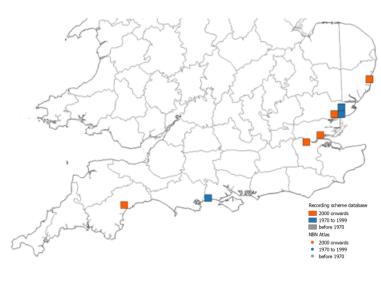
1st antennal segment fairly long, narrowing towards apex, and polished black on underside

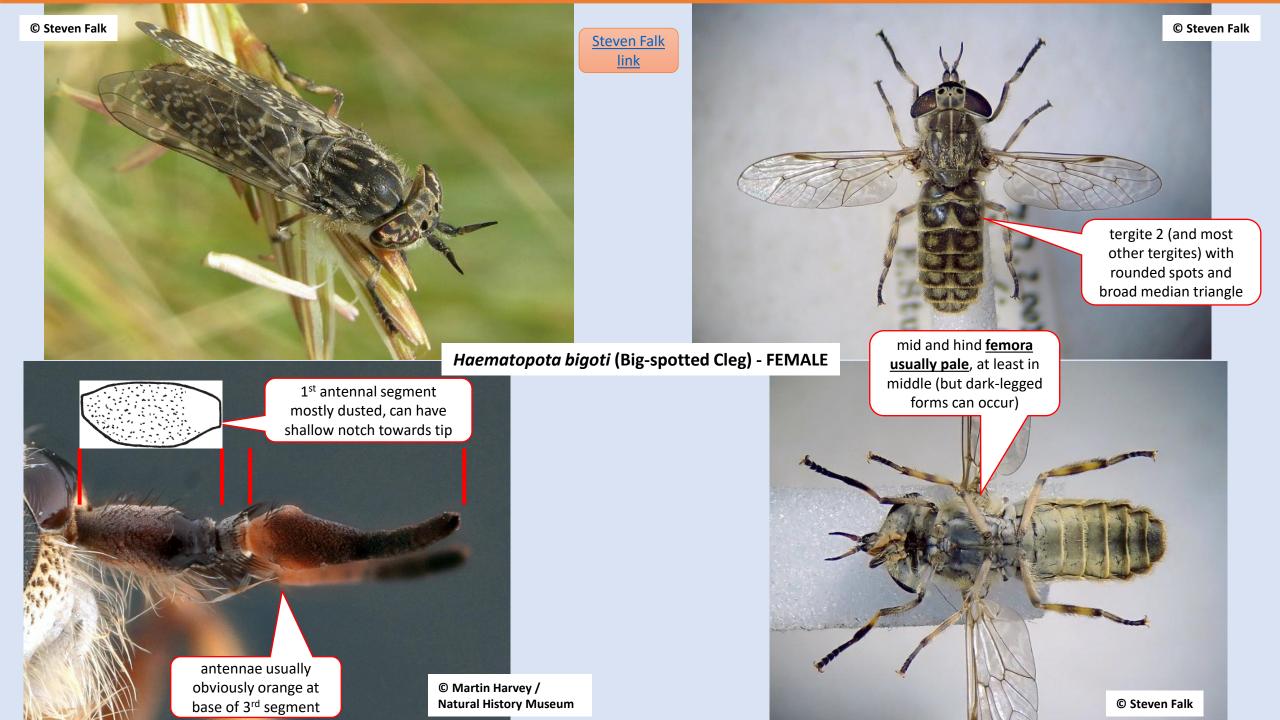
© Andy Grayson

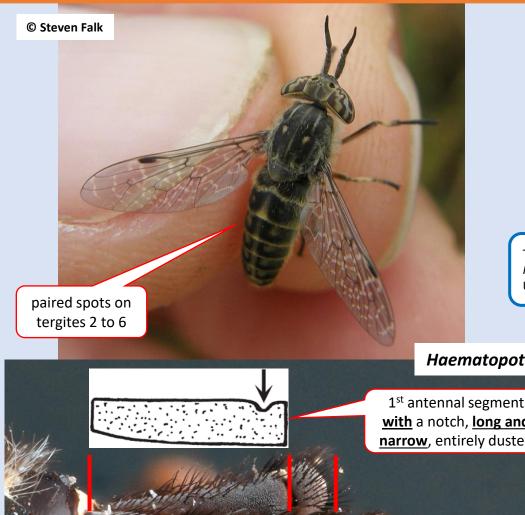
Haematopota subcylindrica (Levels Cleg) - MALE



- ID difficulty: 3
- Flight period: late Jun to late Jul
- GB threat: Least Concern GB rarity: Nationally Rare
- south-east coast (first recorded 1987)
- grazing levels
- No. of records: 19 % since 2000: 53%







Steven Falk <u>link</u>

The largest Haematopota in the UK, up to 13mm long

