## Key to genus *Thereva* (Therevidae)



Version 1.1 at Jan 2020 (corrects a few minor typos)

This key is by Morten Falck (2011. The stiletto flies (Diptera, Therevidae) of Norway. Norwegian Journal of Entomology 58, 131–163). Falck stated that the key was "slightly modified after Haarto & Winqvist (2006. Finnish flies of the family Therevidae. Entomol. Fennica 17: 46–55), with some few alterations after Stubbs & Drake (2001), and based on the author's own studies." The version here (compiled by Martin C. Harvey at February 2018, with kind permission from Morten Falck) selects just the UK species of Thereva from Falck's key, corrects a transposed pair of figures (10A and 10B) from Falck's key, and adds notes on British distribution and habitats.

Falck's key includes all nine *Thereva* species known from the UK:

- *T. bipunctata* (Twin-spot Stiletto)
- *T. cinifera* (Large Plain Stiletto)
- *T. fulva* (Small Plain Stiletto)
- *T. handlirschi* (Golden Scottish Stiletto)
- T. inornata (Light Scottish Stiletto)

- T. nobilitata (Common Stiletto)
- *T. plebeja* (Crotchet-hooked Stiletto)
- *T. strigata* (Cliff Stiletto)
- T. valida (Dark Northern Stiletto)

Note that Falck's paper uses *Thereva unica* for what we call *Thereva bipunctata*; I have used the latter name in the version of the key below.

I have not yet tested this key with British material. Beware that some of the identification features, especially some of the information about colours of body parts and hairs, may not be reliable for British specimens. If you find any discrepancies like this when using the key in Britain please let me know.

Key to UK species of *Thereva* – males (eyes touching)

- At least tergites 2–5 dark anteriorly.



FIGURE 5A. Aedeagus. Thereva cinifera Meigen, 1830.



FIGURE 5B. Aedeagus. Thereva fulva (Meigen, 1804).

- 3. At least one posteroventral bristle basally on hind femora. ......4

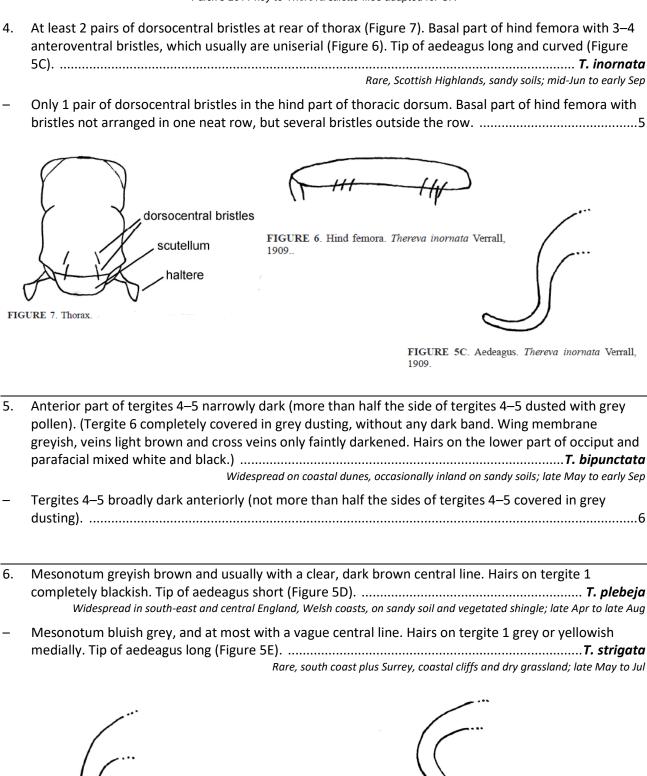


FIGURE 5E. Aedeagus. *Thereva strigata* (Fabricius, 1794).

FIGURE 5D. Aedeagus. Thereva plebeja (L., 1758).

7.	Hairs on scutellum sparse, and completely black. Hairs on abdomen predominantly black. Usually 1 pair of bristles on Thoracic dorsum. Front femora without anteroventral bristles
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8.	Anteroventral bristles on hind femora multiserial (some of the bristles outside the straight row) (Figure 8B). Hairs on scutellum not exceptionally dense' and mixed yellowish and black. Usually 1 pair of bristles on dorsum. Front femora with 1–4 anteroventral bristles
_	Anteroventral bristles on hind femora uniserial (all placed in one neat row) (Figure 8A). Hairs on scutellum dense and almost completely yellow. 2 pairs of bristles on dorsum. Front femora with 2–7 anteroventral bristles.  T. handlirschi  Scarce, Scottish Highlands, sandy soils at woodland edges; late Jun to early Sep

444 + +++

**FIGURE 8B.** Hind femora. *Thereva nobilitata* (Fabricius, 1775).

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FIGURE 8A. Hind femora. Thereva handlirschi Krober, 1912.

Key to UK species of Thereva – females (eyes separated)



FIGURE 9A. Frontal callus. Thereva valida Loew, 1847



FIGURE 9B. Frontal callus. Thereva unica (Harris, 1780).

- Knob of halteres yellowish. Tergite 7 glossy black, only laterally grey dusted. Frontal callus extends to the anterior ocellus (Figure 9D).
   Rare, southern England and Wales, usually on sandy soils, occasional on calcareous grassland; mid-Jun to Jul



FIGURE 9C. Frontal callus. *Thereva cinifera* Meigen, 1830.



FIGURE 9D. Frontal callus. *Thereva fulva* (Meigen, 1804).

- 5. Frontal callus extends laterally to eye margin (Figures 9G, 9H). ......6
- Frontal callus separated from eye margin by a dull area. (Wing membrane greyish brown and cross veins not bordered by dark membrane.)



FIGURE 9G. Frontal callus. *Thereva plebeja* (L., 1758).



FIGURE 9H. Frontal callus. *Thereva strigata* (Fabricius, 1794).

- Spines on the tip of ovipositor slender (Figure 10B). Mesonotum light, bluish grey with distinct light longitudinal stripes. (Front callus as in Figure 9H above.)
   Rare, south coast plus Surrey, coastal cliffs and dry grassland; late May to Jul

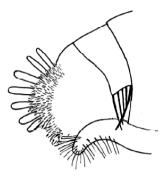
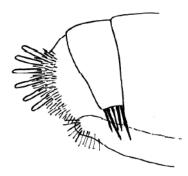


FIGURE 10A. Spines on tip of ovipositor broad and blunt. *Thereva plebeja* (L., 1758).



In Falck 2011 figure 10A (plebeja) is mislabelled as strigata, and figure 10B (strigata) is mislabelled as plebeja.

FIGURE 10B. Spines on the tip of ovipositor slender. Thereva strigata (Fabricius, 1794).

7. Knob of halteres yellowish brown. Anteroventral bristles of hind femora multiserial (with some of the bristles outside the anteroventral row). Frontal callus separated from anterior ocellus (Figure 9I).

Tergite 3 without contrasting line between anterior narrow brownish part and posterior, greyish part of the tergite.

\*\*T. nobilitata\*\*

Widespread including inland, scrub, hedges, rough vegetation; May to early Sep\*\*



FIGURE 9I. Frontal callus. *Thereva nobilitata* (Fabricius, 1775).

Hairs on scutellum all yellow. Frontal callus extends to the anterior ocellus (Figure 9K). .... T. handlirschi
 Scarce, Scottish Highlands, sandy soils at woodland edges; late Jun to early Sep



FIGURE 9J. Frontal callus. Thereva inornata Verrall, 1909.



FIGURE 9K. Frontal callus. *Thereva handlirschi* Krober, 1912.