

Contributions to the knowledge of Norwegian Tachinidae (Diptera, Oestroidea) – Part 3

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Records are given for 142 specimens representing 48 species in 37 genera of tachinid flies from Norway. The following species are recorded from Norway for the first time: *Blepharomyia angustifrons* Herting, 1971, *Blondelia inclusa* (Hartig, 1838), *Ceranthia tenuipalpis* (Villeneuve, 1921), *Cyrtophleba vernalis* (Kramer, 1917), *Entomophaga nigrohalterata* (Villeneuve, 1921), *Hemimacquartia paradoxa* Brauer & Bergenstamm, 1893 and *Phytomyptera vaccinii* Sintenis, 1897.

Key words: Diptera, Tachinidae, *Blepharomyia angustifrons*, *Blondelia inclusa*, *Ceranthia tenuipalpis*, *Cyrtophleba vernalis*, *Entomophaga nigrohalterata*, *Hemimacquartia paradoxa*, *Phytomyptera vaccinii*, new records, Norway.

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Introduction

This paper is a direct continuation of Haraldseide (2012, 2014). Presented below are 142 records from western Norway (Figure 1) representing 48 species in 37 genera, including seven species new to Norway: *Blepharomyia angustifrons* Herting, 1971, *Blondelia inclusa* (Hartig, 1838), *Ceranthia tenuipalpis* (Villeneuve, 1921), *Cyrtophleba vernalis* (Kramer, 1917), *Entomophaga nigrohalterata* (Villeneuve, 1921), *Hemimacquartia paradoxa* Brauer & Bergenstamm, 1893 and *Phytomyptera vaccinii* Sintenis, 1897, increasing the total number of published tachinid species in Norway to 230.

Material and methods

Records are presented as follows: Faunistic Region (Økland 1981) Municipality, Location and European Invertebrate Survey grid-number (EIS) (Endrestøl 2005). Records of species presented in

Haraldseide (2012, 2014) are included only if they represent new locations (Faunistic Region or EIS grid-number) or if they are of special interest.

All specimens are hand-netted by the author and kept in the author's collection unless otherwise noted. Species new to Norway are marked with an asterisk.

Identifications follow Tschorsnig & Herting (1994), Andersen (1988) for *Phytomyptera* Rondani, 1845 and Andersen (1996) for Siphonini.

Corrigenda

Haraldseide (2012): In the checklist, *Entomophaga sufferta* (Villeneuve, 1942) was erroneously treated as a synonym of *Entomophaga nigrohalterata* (Villeneuve, 1921). Anderson (1996) treated both species as valid and reported *E. sufferta* from Norway, not *E. nigrohalterata*.

Haraldseide (2012): The location-name Mølstre is consistently misspelled "Møstre" throughout.

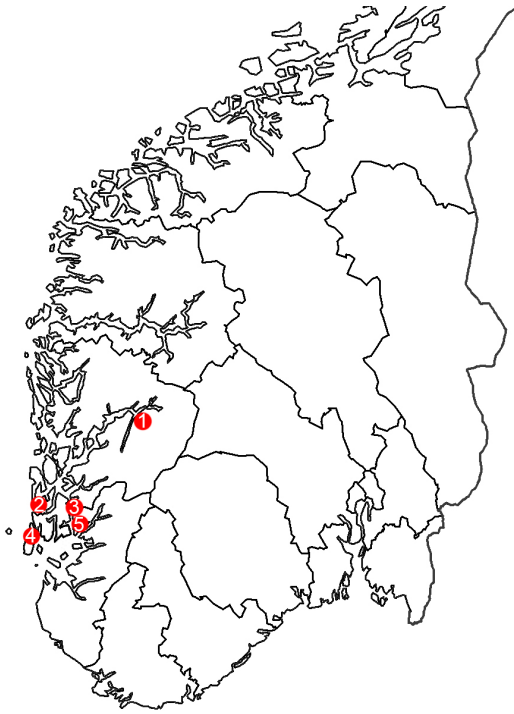


FIGURE 1. Collecting sites. 1. HOI, Ullensvang: Kinsarvik. 2. HOY, Sveio: Mølstre, Paddevegen. 3. RY, Vindafjord: Fjellstølsvegen. 4. Karmøy: Bygnes, Skår, Åkrasanden. 5. Suldal: Finnvik, Ropeid.

The species

DEXIINAE

* *Blepharomyia angustifrons* Herting, 1971

Material: HOY, Sveio: Paddevegen (EIS 22) 4 June 2015, 1♂ (feeding on *Vicia sepium*); 12 June 2015, 1♂1♀; 13 June 2015, 2♀♀; RY, Suldal: Finnvik (EIS 14) 10 July 2015, 1♀.

Campylocheta inepta (Meigen, 1824)

Material: RY, Suldal: Finnvik (EIS 14) 5 July 2015, 1♂; 10 July 2015, 3♂♂1♀.

Campylocheta praecox (Meigen, 1824)

(Figure 2A)

Material: HOY, Sveio: Paddevegen (EIS 22) 19 April 2015, 1♂; RY, Suldal: Ropeid (EIS 14) 11 April 2015, 4♂♂2♀♀.

* *Cyrtophleba vernalis* (Kramer, 1917)

Material: HOY, Sveio: Paddevegen (EIS 22) 19 April 2015, 3♂♂.

Dinera ferina (Fallén, 1817)

Material: HOI, Ullensvang: Kinsarvik (EIS 32) 5 August 2015, 1♀.

Eriothrix rufomaculata (De Geer, 1776)

(Figure 2B)

Material: HOI, Ullensvang: Kinsarvik (EIS 32) 5 August 2015, 1♀; HOY, Sveio: Mølstre (EIS 22) 20 July 2013, 1♂.

Freraea gagatea Robineau-Desvoidy, 1830

Material: RY, Karmøy: Åkrasanden (EIS 13) 27 July 2015, 1♂.

EXORISTINAE

Admontia blanda (Fallén, 1820)

Material: RY, Suldal: Finnvik (EIS 14) 23 July 2015, 1♂; 31 July 2015, 1♂; 7 August 2015, 1♂; Vindafjord: Fjellstølsvegen (EIS 23) 30 August 2015, 1♀.

Admontia grandicornis (Zetterstedt, 1849)

Material: RY, Suldal: Finnvik (EIS 14) 16 July 2015, 1♀.

* *Blondelia inclusa* (Hartig, 1838)

Material: RY, Suldal: Finnvik (EIS 14) 5 July 2015, 3♂♂2♀♀.

Drino lota (Meigen, 1824)

Material: RY, Suldal: Finnvik (EIS 14) 5 July 2015, 1♀.

* *Hemimacquartia paradoxa* Brauer & Bergenstamm, 1893

Material: HOY, Sveio: Paddevegen (EIS 22) 12 June 2015, 1♀.

Meigenia mutabilis (Fallén, 1810) (Figure 2C)

Material: RY, Suldal: Finnvik (EIS 14) 1 July 2015, 1♂; 20 July 2014, 1♂; 1 August 2014, 3♂♂; Ropeid, 23 August 2014, 3♂♂.

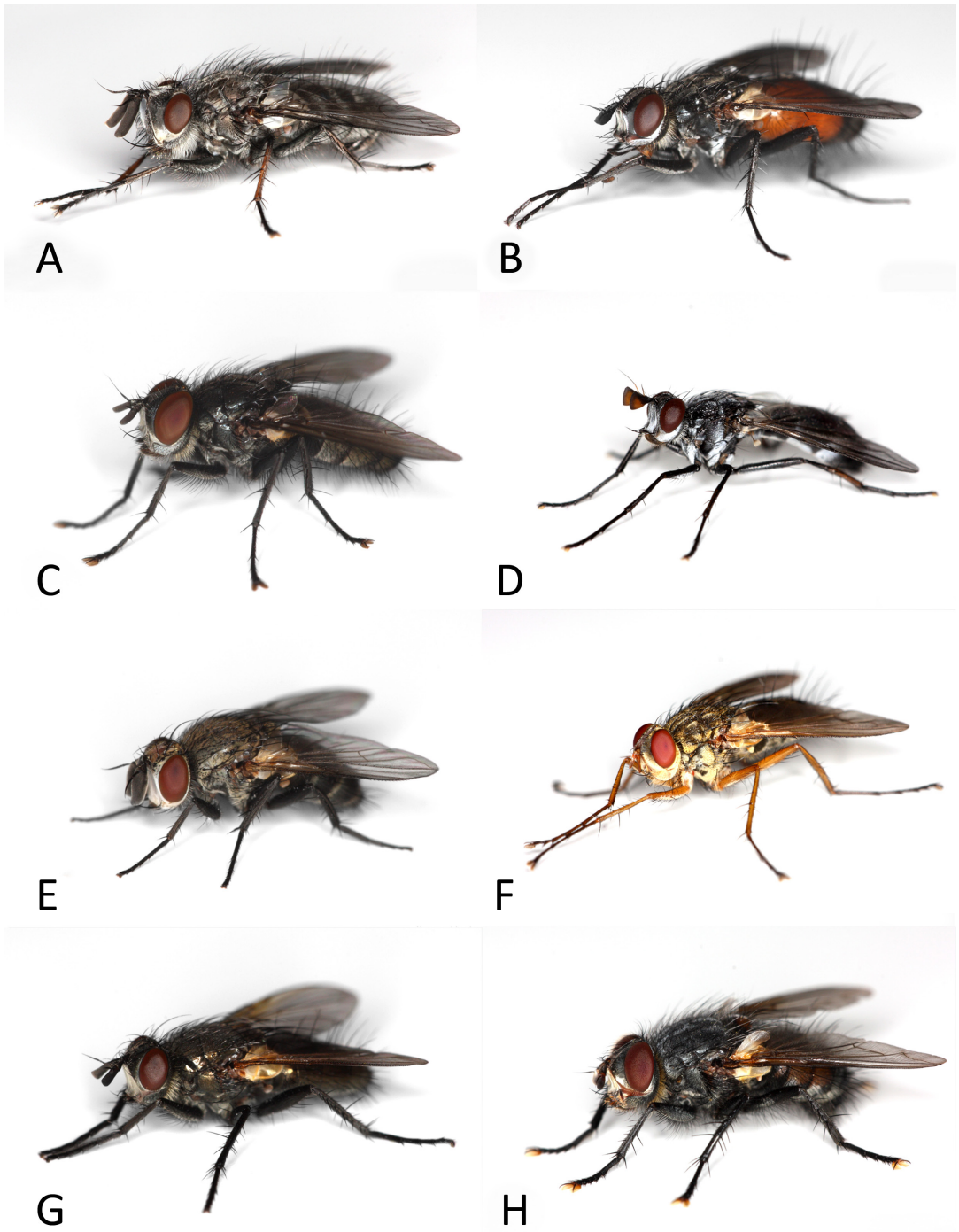


FIGURE 2. A. *Campylocheta praecox* (Meigen, 1824) male. B. *Eriothrix rufomaculata* (De Geer, 1776) female. C. *Meigenia mutabilis* (Fallén, 1810) male. D. *Lophosia fasciata* Meigen, 1824 male. E. *Actia crassicornis* (Meigen, 1824) male. F. *Dexiosoma caninum* (Fabricius, 1781) male. G. *Lydina aenea* (Meigen, 1824) female. H. *Panzeria rudis* (Fallén, 1810) male.

***Ocytata pallipes* (Fallén, 1820)**

Material: RY, Karmøy: Skår (EIS 13) 27–30 June 2015, 1♂ (Malaise trap); Suldal: Finnvik (EIS 14) 1–31 August 2015, 1♂ (Malaise trap).

***Onychogonia flaviceps* (Zetterstedt, 1838)**

Material: HOI, Ullensvang: Kinsarvik (EIS 32) 5 August 2015, 1♀.

Remarks: Feeding on *Leucanthemum* only 100 meters above sea level at 60° 22' N.

***Oswaldia muscaria* (Fallén, 1810)**

Material: HOI, Ullensvang: Kinsarvik (EIS 32) 5 August 2015, 1♀.

***Paracraspedothrix montivaga* Villeneuve, 1919**

Material: HOI, Ullensvang: Kinsarvik (EIS 32) 5 August 2015, 1♀; RY, Suldal: Finnvik (EIS 14) 23 May–7 June 2015, 1♂ (Malaise trap); 5 July 2015, 2♂♂; 23 July 2015, 3♂♂.

***Phebellia villica* (Zetterstedt, 1838)**

Material: RY, Vindafjord: Fjellstølsvegen (EIS 23) 30 August 2015, 1♀.

***Prooppia nigripalpis* (Robineau-Desvoidy, 1847)**

Material: HOY, Sveio: Paddevegen (EIS 22) 7 June 2015, 1♀.

PHASIINAE

***Lophosia fasciata* Meigen, 1824** (Figure 2D)

Material: HOY, Sveio: Paddevegen (EIS 22) 20 August 2015, 1♂.

TACHININAE

***Actia crassicornis* (Meigen, 1824)** (Figure 2E)

Material: RY, Suldal: Finnvik (EIS 14) 23 May–7 June 2015, 1♂ (Malaise trap); 5 July 2015, 3♂♂3♀♀; 10 July 2015, 2♀♀; 16 July 2015, 1♀; 23 July 2015, 1♀.

***Actia lamia* (Meigen, 1838)**

Material: HOY, Sveio: Paddevegen (EIS 22) 6 June 2015, 1♀; 12 June 2015, 1♀.

***Actia nigroscutellata* Lundbeck, 1927**

Material: HOI, Ullensvang: Kinsarvik (EIS 32) 5 August 2015, 3♂♂1♀.

***Actia resinellae* (Schrank, 1781)**

Material: RY, Suldal: Finnvik (EIS 14) 5 July 2015, 1♀.

***Aphantorhaphopsis verralli* (Wainwright, 1928)**

Material: RY, Suldal: Finnvik (EIS 14) August 2015, 1♂ (Malaise trap).

***Appendicia truncata* (Zetterstedt, 1838)**

Material: RY, Karmøy: Skår (EIS 13) 15 May 2015, 1♂ (Malaise trap); 8–12 June 2015, 1♀ (Malaise trap).

***Ceranthia vernerii* Andersen, 1996**

Material: HOI, Ullensvang: Kinsarvik (EIS 32) 5 August 2015, 2♂♂; HOY, Sveio: Paddevegen (EIS 22) 2 August 2015, 2♂♂.

Remarks: Netted from flowers of *Chamerion angustifolium* and *Anthriscus*.

* ***Ceranthia tenuipalpis* (Villeneuve, 1921)**

Material: RY, Suldal: Finnvik (EIS 14) 10 July 2015, 1♀; 23 July 2015, 1♀.

***Ceranthia tristella* Herting, 1966**

Material: RY, Suldal: Finnvik (EIS 14) 16 July 2015, 1♀.

***Dexiosoma caninum* (Fabricius, 1781)**

(Figure 2F)

Material: HOI, Ullensvang: Kinsarvik (EIS 32) 5 August 2015, 1♀.

* ***Entomophaga nigrohalterata* (Villeneuve, 1921)**

Material: RY, Karmøy: Skår (EIS 13) 1–7 May 2015, 3♂♂ (Malaise trap); Suldal: Finnvik (EIS 14) June 2015, 1♀ (Malaise trap).

***Eurithia anthophila* (Robineau-Desvoidy, 1830)**

Material: RY, Karmøy: Skår (EIS 13) 13 August 2015, 1♂.

***Eurithia connivens* (Zetterstedt, 1844)**

Material: HOI, Ullensvang: Kinsarvik (EIS 32) 5 August 2015, 1♀.

***Gymnocheta magna* Zimin, 1958**

Material: HOY, Sveio: Paddevegen (EIS 22) 31 May 2015, 1♀ (leg. Magnus Haraldseide); 12 June 2015, 1♀.

***Gymnocheta viridis* (Fallén, 1810)**

Material: HOY, Sveio: Mølstre (EIS 22) April 2015, 2♂♂ (Malaise trap); 1 May 2015, 1♀; 1–8 May 2015, 1♀ (Malaise trap); Paddevegen: 31 May 2015, 1♂; 4 June 2015, 1♂; 5 June 2015, 2♂♂1♀; 12 June 2015, 1♀; 13 June 2015, 1♀; 23 June 2015, 1♀; 1 July 2015, 1♀; **RY**, Suldal: Finnvik (EIS 14) 2 May 2015, 1♂; 5 July 2015, 3♀♀; 10 July 2015, 1♀.

***Hyalurgus lucidus* (Meigen, 1824)**

Material: HOI, Ullensvang: Kinsarvik (EIS 32) 5 August 2015, 1♂; **HOY**, Sveio: Paddevegen (EIS 22) 12 August 2015, 1♂.

***Linnaemya vulpina* (Fallén, 1810)**

Material: HOY, Sveio: Paddevegen (EIS 22) 2 August 2015, 1♂; **RY**, Suldal: Finnvik (EIS 14) 7 August 2015, 1♂.

***Loewia foeda* (Meigen, 1824)**

Material: **RY**, Karmøy: Bygnes (EIS 13) April 2015, 1♀ (reared from *Lithobius forficatus* (Linnaeus, 1758) (Chilopoda, Lithobiidae).

Remarks: It has long been strongly suspected that *L. forficatus* is host for *L. foeda* (Thompson 1915 and Wood & Wheeler 1972); this suspicion was further strengthened by successful experiments on larvipositioning described in Haraldseide & Tschorsnig (2014). The record represents the first published confirmed rearing, thus settling the relationship beyond any doubt.

***Lydina aenea* (Meigen, 1824)** (Figure 2G)

Material: **RY**, Suldal: Finnvik (EIS 14) 23 July, 1♂; 31 July 2015, 1♂.

***Panzeria rudis* (Fallén, 1810)** (Figure 2H)

Material: **RY**, Suldal: Finnvik (EIS 14) 5 July

2015, 1♂2♀♀; 10 July 2015, 1♂; 16 July 2015, 1♀.

***Pelatachina tibialis* (Fallén, 1810)**

Material: **RY**, Suldal: Finnvik (EIS 14) 10 July 2015, 1♀.

***Peribaea hertingi* Andersen, 1996**

Material: **RY**, Suldal: Finnvik (EIS 14) 5 July 2015, 1♀; 10 July 2015, 1♂; 23 July 2015, 1♀.

***Phytomytera cingulata* (Robineau-Desvoidy, 1830)**

Material: **RY**, Suldal: Finnvik (EIS 14) 10 July 2015, 1♂.

***Phytomytera minutissima* (Zetterstedt, 1844)**

Material: **RY**, Suldal: Finnvik (EIS 14) 23 July 2015, 1♂1♀.

*** *Phytomytera vaccinii* Sintenis, 1897**

Material: **RY**, Suldal: Finnvik (EIS 14) 5 July 2015, 1♂2♀♀.

Remarks: Caught feeding on *Anthriscus* flowers.

***Siphona setosa* Mesnil, 1960**

Material: HOI, Ullensvang: Kinsarvik (EIS 32) 5 August 2015, 2♂♂.

***Tachina fera* (Linnaeus, 1761)**

Material: HOI, Ullensvang: Kinsarvik (EIS 32) 5 August 2015, 1♂; **RY**, Vindafjord: Fjellstølsvegen (EIS 23) 30 August 2015, 2♀♀.

***Triarthria setipennis* (Fallén, 1810)**

Material: **RY**, Suldal: Finnvik (EIS 14) 31 July 2015, 1♀.

Discussion

When looking at total numbers of recorded insect species in adjacent Nordic countries there is a tendency for Norwegian numbers to be lower. Increased collecting efforts and faunistic studies in Norway will probably prove this more or less consistent gap to be at least partly artificial,

although factual lower numbers in Norway can be ascribable to geography and climate, especially compared to Sweden. However, it would be surprising if less than 70–80% of tachinids found in neighbouring countries were represented in Norway.

The real number of species known from Norway is slightly higher than 230 when including those not yet formally published, still they represent only about 62% of species known from Sweden (ca. 370) (Bergström, pers. comm.), and about 71% of those known from Finland (321) (Pohjoismäki & Kahanpää 2014, Pohjoismäki *et al.* 2015).

If comparing the gaps in actual numbers of recorded species in the four subfamilies one can see they are, from lowest to highest: Dexiinae, Phasiinae, Tachininae and Exoristinae, as expected based on size, a majority of species awaiting discovery in Norway will probably belong to the latter two.

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