

# Faunistics of Norwegian Phasiinae (Diptera, Tachinidae)

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Rognes, K. 2006. Faunistics of Norwegian Phasiinae (Diptera, Tachinidae). Norw. J. Entomol. 52, 127-136.

Records of 14 species of Phasiinae (Diptera, Tachinidae) from Norway are given and their distribution mapped in terms of European Invertebrate Survey (EIS) 50 km squares. *Phasia aurulans* Meigen, 1824 is reported from Norway for the first time.

Key words: Diptera, Tachinidae, Phasiinae, faunistics, Norway, Heteroptera

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## INTRODUCTION

This paper is the first in a planned series updating the knowledge of Norwegian parasite flies, (Diptera, Tachinidae). I have dealt with the Tachinidae in earlier papers (Rognes 1981, 1982, 1983a, 1983b, 1986, 1995; Rognes & Hansen 1996) but those were mainly fragmentary faunistic notes. My check-list from 1986, although based on material in all Norwegian entomological museums at the time, does not give any distributional data. The purpose of the planned series is to give complete faunistic data for all Norwegian tachinid flies, including distributional maps.

The present paper deals with the subfamily Phasiinae, which are parasitoids of Heteroptera. It is based on material in Zoological Museum, University of Bergen (ZMB), Zoological Museum, University of Oslo (ZMO), Tromsø University Museum (TM), on material in my own collection accumulated through gifts and my own collecting efforts over the last twenty years (KR), and the small collection of Thor Jan Olsen (Sarpsborg) (TJO).

The classification and nomenclature follows Herting & Dely-Draskovits (1993) and Tschorsnig

& Herting (1994). No breeding data are available from Norway. The brief notes on biology are taken from Belshaw (1993) and Tschorsnig & Herting (1994). 14 phasiine species are now known from Norway, whereas 20 additional species are known from Sweden. Undoubtedly further species will turn up in Norway (Tschorsnig 2005). Taxa new to this country are marked with an asterisk (\*).

## TACHINIDAE

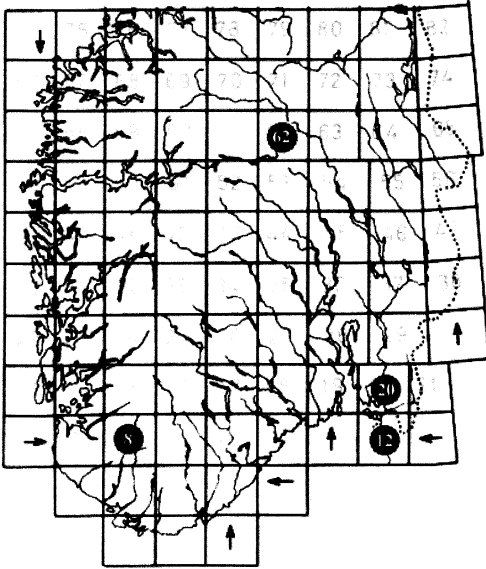
### Subfamily Phasiinae

#### Tribe Phasiini

*Subclytia rotundiventris* (Fallén, 1820) (Map 1)  
Ø Halden: Berby (EIS 12) 1♂ 30 July 1984 (K. Rognes) (KR); Brekke sluser (EIS 20) 1♂ 2 August 1984 (K. & Ø. Rognes) (KR); Sarpsborg: Råkil i Tune (EIS 20) 1♂ 22 July 1994 (T. J. Olsen) (ZMO); OS Sør-Fron: Breivegen bru (EIS 62) 1♀-18 August 1979 (S. Andersen) (KR); RI Forsand: Daladalen (EIS 8) 1♀ 7 August 1983 (T. Jonassen) (KR).

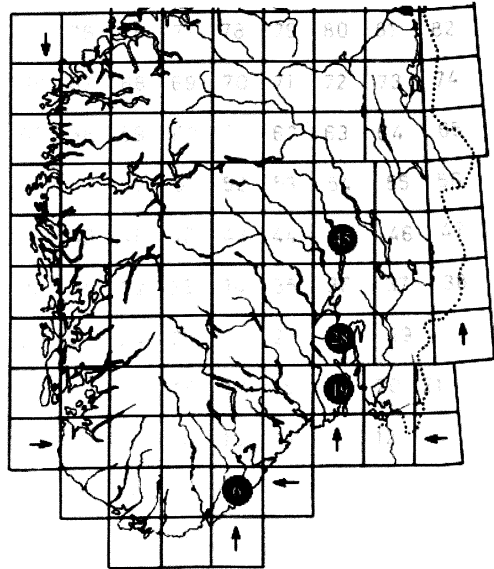
Bred from various Acanthosomatidae and Pentatomidae (Heteroptera).

*Subclytia rotundiventris*



Map 1. Distribution of records of *Subclytia rotundiventris* (Fallén, 1820) in Norway.

*Gymnosoma clavatum*



Map 2. Distribution of records of *Gymnosoma clavatum* (Rohdendorf, 1947) in Norway.

*Gymnosoma clavatum* (Rohdendorf, 1947)  
(Map 2)

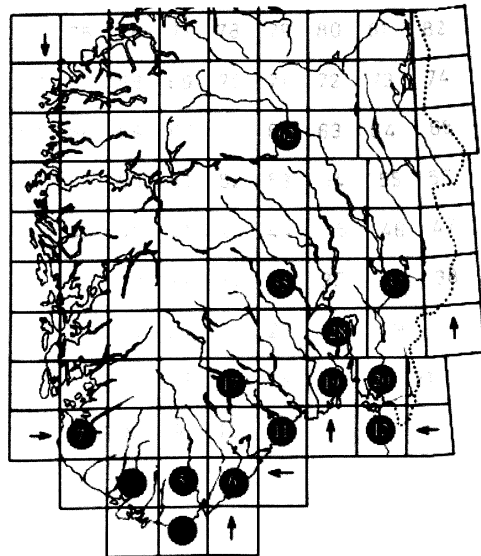
AK Oslo: Oslo (EIS 28) 1♂ ?date (Siebke) (ZMO) [B. Herting det.]; OS Søndre Land: Land (EIS 45?) 1♂ ?date (Siebke) (ZMO) [B. Herting det.]; VE ?loc (EIS 19) 1♂ 2♀♀ ? date (O. Bidenkap) (ZMB); Horten: Borre (EIS 19) 1♂ 13 August ?year (O. Bidenkap) (ZMB); Sem: Slagen (EIS 19) 1♀ 6 August ?year (O. Bidenkap) (ZMB); AAY Hisøy: Ramsø (EIS 6) 3♂♂ 19 July 1935 (T. Soot-Ryen) (TM).

Bred from various Pentatomidae (Heteroptera).

*Gymnosoma nudifrons* Herting, 1966 (Map 3)

Ø Sarpsborg: Skjebergdalen (EIS 20) 1♂ 1 June 1997 (T. J. Olsen) (TJO); Fredrikstad: Gansrød / Øra (EIS 20) 1♀ 11 August 1995 (T. J. Olsen) (TJO); Hvaler: Kirkøy, Ørekroken (EIS 12) 1♀ 12 July 1992 (T. J. Olsen) (TJO); Vesterøy (Vauer) (EIS 20) 1♀ 29 July 1984 (K. Rognes) (KR); Vesterøy (Vauer-Guttormsvauen) (EIS 20) 2♂♂ 1♀ 29 July 1984, 1♀ 3 August 1984 (K. Rognes) (KR); Vesterøy (Vauer-Kuvauen) (EIS 20) 1♂ 3 August 1984 (K. Rognes) (KR); Onsøy:

*Gymnosoma nudifrons*



Map 3. Distribution of records of *Gymnosoma nudifrons* Herting, 1966 in Norway.

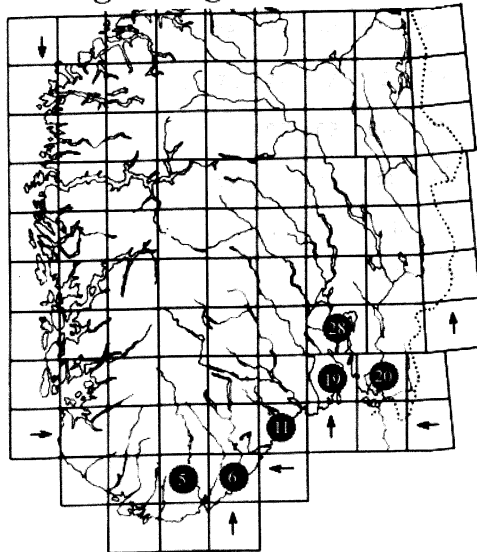
Mærrapanna (EIS 20) 1♀ 9 June 1996 (T. J. Olsen) (TJO); **AK** Oslo: Oslo (EIS 28) 1♀ ?date (L. M. Esmark) (ZMO); Oslo, Sognsvatn (EIS 28) 1♀ 31 July 1935 (T. Soot-Ryen) (TM); Frogd: Sønderstøa-Degerud (EIS 28) 4♂♂ 2♀♀ 10 June 1935, 1♂ 8 August 1935, 1♂ 9 August 1935 (T. Soot-Ryen) (TM); Bærum: Ostøya (EIS 28) 1♀ 2 June 1984 (L. Greve, "på strandvortemelk") (ZMB); 1♀ 2 June 1984, 2♂♂ 1♀ 10 June 1984 (F. Midtgaard) (KR); 1♂ 30 May 1984, 1♂ 2♀♀ 31 May 1984, 1♂ 2 June 1984, 1♀ 16 June 1984 (T. R. Nielsen) (KR); Ullensaker: Sessvoll (EIS 37) 1♀ 10 July 1996, 1♂ 19 July 1996, 1♀ 21 August 1996 (K. Sand, sweep net, sand) (KR); **ON** Nord-Fron: Kvam (EIS 62) 3♂♂ 4♀♀ 2 August 1850 (Siebke) (ZMO); **OS** Sør-Fron: Fron [ved Moen] (EIS 62) 1♂ ?date (Siebke) (ZMO); **BØ** Modum: ?loc (EIS 28) 2♂♂ ?date (W. M. Schøyen) (ZMO) 1♂ ?date (W. M. Schøyen) (TM); Hurum: Østnestangen (EIS 19) 1♂ 1♀ 6 July-20 August 1995 (L. O. Hansen, M-trap) (KR/ZMO); **BV** Rollag: Bråtåsen (EIS 35) 1♂ 1♀ July 1994, 1♀ August 1994 (L. O. Hansen & B. Sagvolden, M-trap) (KR/ZMO); **VE** Horten: Veggefjellet (EIS 19) 1♂ July 1997 (L. O. Hansen, M-trap) (ZMB); Adalstjern (EIS 19) 1♀ July 1997 (L. O. Hansen, M-trap) (ZMB); Larvik: Larvik (EIS 19) 1♂ ?date (Siebke) (ZMO); Tjøme: Kjære (EIS 19) 1♀ 29 June 1977 (A. Fjellberg) (ZMB); Brunlanes: Pauler (EIS 19) 1♀ 22 July 1985 (B. Borgersen) (KR/ZMO); **TEI** Seljord: Seljord (EIS 17) 1♂ 2♀♀ 26 July 1976 (T. R. Nielsen) (KR); **AAV** Risør: Risør (EIS 11) 1♀ 27 June 1975 (T. R. Nielsen) (KR); Tromøy: Tromøya (EIS 6) 1♂ 15 July 1960 (A. Bakke) (KR); **AAI** Evje og Hornnes: Bjorå (EIS 5) 3♂♂ 19 June 1977 (S. Svendsen) (KR); **VAY** Kristiansand: Stangenes (EIS 2) 1♀ 13 June 1976, 1♂ 27 May 1984 (S. Svendsen) (KR); Mandal: Skogsfjord (EIS 2) 1♀ 6 August 1976 (T. R. Nielsen) (KR); Mandal (EIS 2) 1♀ 14 July 1935 (T. Soot-Ryen) (TM); Flekkefjord: Hidra, Dragøy (EIS 4) 1♂ 6 May-20 June 1982 (T. R. Nielsen, M-trap) (KR); **VAI** Kvinesdal: Gjemlestad (EIS 4) 1♂ ?date (J. Knaben) (ZMO); **RI** Forsand: Songesand (EIS 7) 1♂ 27 May 1984 (T. Jonassen) (KR).

Bred from various Pentatomidae (Heteroptera).

*Cistogaster globosa* (Fabricius, 1775) (Map 4)  
**Ø** Hvaler: Vesterøy (Vauer-Guttormsvauen) (EIS 20) 1♀ 31 July 1984 (K. Rognes) (KR); **AK** Oslo: Hovedøya (EIS 28) 1♂ 12 July 1985 (A. Fjeldså) (ZMB); Bærum: Ostøya (EIS 28) 1♀ 31 May 1984, 1♀ 2 June 1984 (F. Midtgaard) (KR); **BØ** Drammen: Drammen (EIS 28) 1♂ 1♀ 16 July 1996 (B. Sagvolden) (KR/ZMO); Underlia 1♀ July 1994 (L. O. Hansen, M-trap) (KR/ZMO); **VE** Horten: Adalstjern (EIS 19) 1♂ 1♀ July 1997 (L. O. Hansen, M-trap) (ZMB); Løvøya (EIS 19) 1♂ August 1997 (L. O. Hansen) (ZMB); Tjøme: Kjære (EIS 19) 1♂ 26 June 1977 (A. Fjellberg) (ZMB); **TEY** Porsgrunn: Helleåsen (EIS 11) 3♀♀ 13 July-27 August 1995 (L. O. Hansen & O. Hanssen, M-trap) (KR/ZMO); Bamble: Langesundtangen (EIS 11) 1♂ 2♀♀ 13 July-27 August 1995 (L. O. Hansen & O. Hanssen, M-trap) (KR/ZMO); Langøya (EIS 11) 1♀ 6-31 July 1995 (L. O. Hansen & R. Mehl, M-trap) (KR/ZMO); Kragerø: Portør (EIS 11) 1♂ 2 August 1996 (L. Greve) (ZMB); **AAV** Tromøy: Løvsstad (EIS 6) 1♂ 31 July 1974 (T. R. Nielsen) (KR); **VAY** Kristiansand: Hamresanden (EIS 5) 1♂ 15 July 2003 (K. Berggren) (KR).

Bred from various Pentatomidae (Heteroptera).

### *Cistogaster globosa*



**Map 4.** Distribution of records of *Cistogaster globosa* (Fabricius, 1775) in Norway.

\* *Phasia aurulans* Meigen, 1824 (Map 5)

**RI** Suldal: Sand, Eide (EIS 14) 3♂♂ 26 September 2004 (R.Voith / K.Berggren) (KR);  
**SFI** Sogndal: Kaupanger, Rudsviki (EIS 51) 8♂♂ 1♀ 19 July-1 August 2003, 13♂♂ 9♀♀ 8 July-6 August 2004 (S. J. Hegland) (KR).

The material from Kaupanger was collected on various flowers during a pollination study which will be reported upon later by Stein Joar Hegland in his PhD thesis.

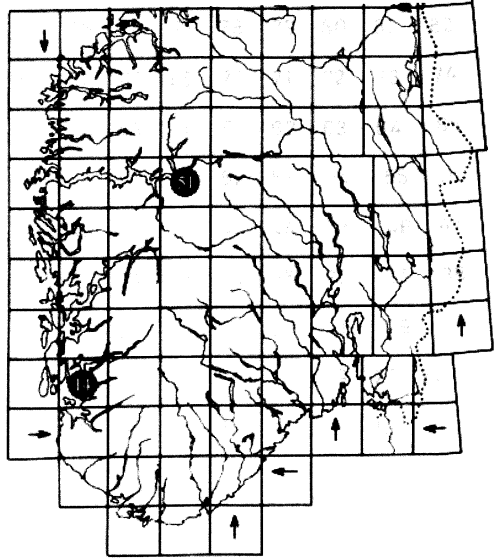
The male has a large pentagonal mark of golden pollinosity at the hind half of the dorsum of the thorax (Figure 1). In the female the mark is smaller and partly subdivided by a narrow longitudinal black stripe entering the spot from behind. Both sexes have the hind femora all black, whereas in the similar *Phasia hemiptera* (Fabricius) they are reddish yellow in about the basal half. The ovipositor (sternite 7) is shining black and curved strongly downwards. In *Phasia hemiptera* it is straight or bent slightly upwards.

Hosts unknown.



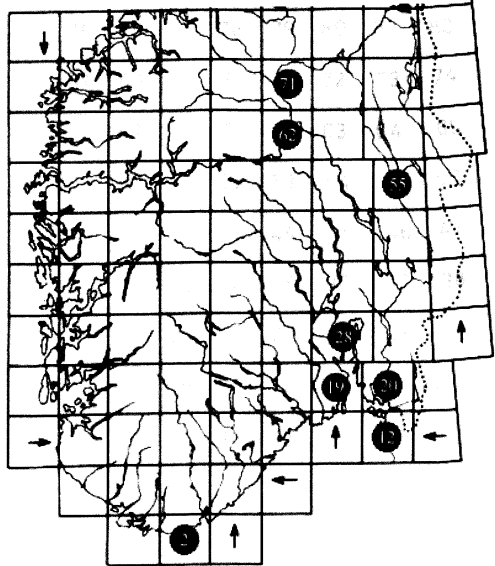
**Figure 1.** *Phasia aurulans* Meigen, ♂. Specimen from **RI** Suldal (R. Voith leg.). Note the wing pattern and the conspicuous golden spot on the dorsum of the thorax (around base of pin). (Photograph by K. Berggren).

## *Phasia aurulans*



**Map 5.** Distribution of records of *Phasia aurulans* Meigen, 1824 in Norway.

## *Phasia obesa*



**Map 6.** Distribution of records of *Phasia obesa* (Fabricius, 1798) in Norway.

*Phasia obesa* (Fabricius, 1798) (Map 6)

Ø Halden: Berby (EIS 12) 1♀ 30 July 1984 (K. Rognes) (KR); Fredrikstad: Gansrød-Øra (EIS 20) 1♀ 19 September 1996 (T. J. Olsen) (TJO); Moss: Kambo, Moss sentralsykehus (EIS 19) 1♂ 15 September 2001 (O. Sørlibråten) (ZMO); Rakkestad: ?loc (EIS 20) 1♂ 27 October 1990 (T. J. Olsen) (KR/TJO); **AK** Oslo: Tveita (EIS 28) 1♂ 20 July 1846 (Siebke) (ZMO); Tøyen (EIS 28) 1♂ ?date (Siebke) (ZMO); Bærum: Østerås (EIS 28) 1♂ 1♀ 15 July 1981 (K. Rognes) (KR); **HES** Elverum: Elverum (EIS 55) 1♀ July 1870 (Siebke) (ZMO); Grundset (EIS 55) 1♀ ?date (Siebke) (ZMO) 1♀ ?date (Siebke) (TM); **ON** Dovre: Toftemo (EIS 71) 1♂ 5 August 1873 (Siebke, dissected by KR) (ZMO); **OS** Sør-Fron: Fron [ved Moen] (EIS 62) 1♀ ?date (Siebke) (ZMO); **VAY** Mandal: Mandal (EIS 2) 1♀ 14 July 1935 (T. Soot-Ryen) (TM).

Bred from various Pentatomidae, Cydnidae, Coreidae, Lygaeidae and Miridae (Heteroptera).

The specimen from Rakkestad has yellow legs, and Hans-Peter Tschorsnig, who has examined the specimen, considers this as an aberration not affecting its identity.

*Phasia pusilla* (Meigen, 1824) (Map 7)

**AK** Oslo: Bygdøy, Hengsengen (EIS 28) 1♀ 1 June 1984 (L. Greve) (ZMB); Tøyen (EIS 28) 1♀ 19 August 1851 (Siebke) (ZMO); 1♂ ?date (Siebke) (TM); **BØ** Hurum: Filtvet (EIS 28) 1♂ 1 June 1983 (F. Midtgaard) (KR); **TEI** Hjartdal: Gvammen (EIS 26) 1♂ 12 July 1976 (T. R. Nielsen) (KR).

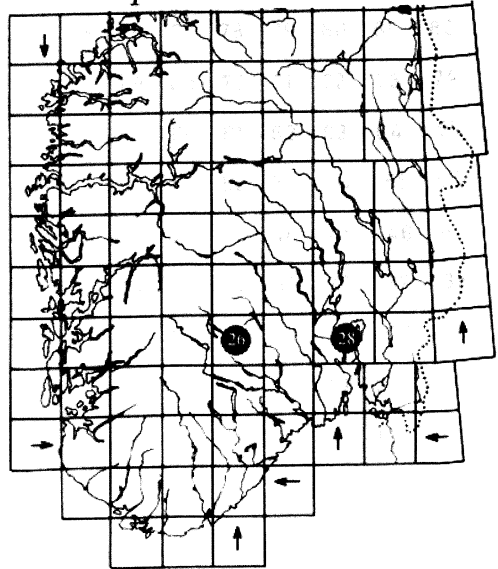
Bred from various Lygaeidae, Cydnidae and Anthocoridae (Heteroptera).

## Tribe Catharosiini

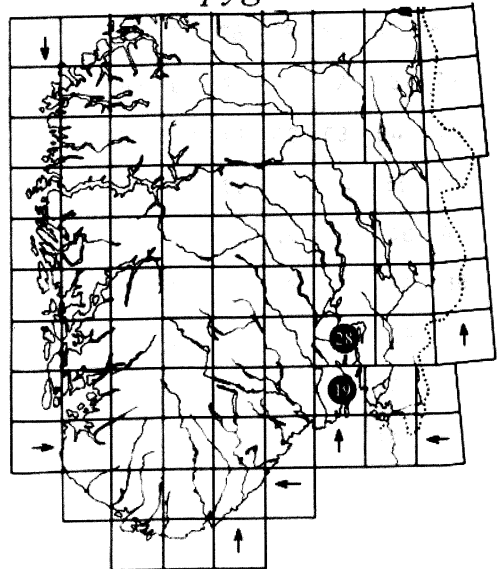
*Catharosia pygmaea* (Fallén, 1815) (Map 8)

?loc., 1♀ ?date (Siebke) (ZMO); **BØ** Drammen: Underlia (EIS 28) 1♀ August 1992, 1♂ 1♀ August 1994, 1♀ July 1995 (L.O.Hansen, M-trap) (KR/ZMO); **VE** Tjøme: Gon (EIS 19) 1♀ 11 July 1993 (A. Fjellberg) (ZMB).

Bred from *Beosus maritimus* (Scop.) (Lygaeidae, Heteroptera.).

*Phasia pusilla*

**Map 7.** Distribution of records of *Phasia pusilla* (Meigen, 1824) in Norway.

*Catharosia pygmaea*

**Map 8.** Distribution of records of *Catharosia pygmaea* (Fallén, 1815) in Norway.

*Tribe Leucostomatini*

*Cinochira atra* (Zetterstedt, 1845) (Map 9)

**RI** Forsand: Songesand skole (EIS 7) 1♂ 5 August 1982, 1♂ 28 June 1984 (T. Jonassen) (KR).  
Bred from various Lygaeidae (Heteroptera).

*Tribe Cylindromyiini*

*Lophosia fasciata* Meigen, 1824 (Map 10)

**Ø** Halden: Enningdalen-Kirkeboen (EIS 20) 1♂ 5 August 1997 (T. J. Olsen) (TJO); Sarpsborg: Skjeberg kirke (EIS 20) 1♂ 20 July 2003 (T. J. Olsen) (TJO); Råkil i Tune (EIS 20) 1♂ 24 July 1996 (T. J. Olsen, completely eaten away) (TJO); Rygge: Sildebauen (EIS 19) 1♂ 23 June 1984 (L. Aarvik) (ZMB); **AK** Bærum: Ostøya (EIS 28) 1♂ 24 July 1984 (F. Midtgaard) (ZMB); **BØ** Drammen: Underlia (EIS 28) 1♂ 1-30 June 1992 (L. O. Hansen, M-trap) (ZMB); Røyken: Kinnartangen (EIS 28) 1♂ 28 July 1986 (L. O. Hansen) (KR/ZMO); 1♂ 3 June 1993 (L. O. Hansen, M-trap) (ZMB); **VE** Horten: Adalstjern (EIS 19) 2♂♂ July 1997 (L. O. Hansen, M-trap) (ZMB); **RY** Finnøy: Kvitevik (EIS 14) 1♀ 9-27 July 1993 (J. Skartveit, M-trap) (ZMB); **RI** Forsand: Songesand skole

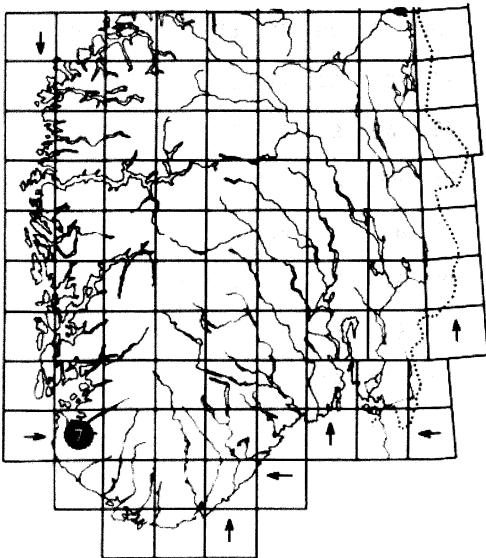
(EIS 7) 1♂ 25 June 1984 (T. Jonassen) (KR); **HOY** Kvam: Gravdal, Svevatn (EIS 31) 1♂ 29 July-11 September 1997 (J. Skartveit, M-trap) (ZMB).

Bred from various Pentatomidae (Heteroptera).

*Cylindromyia brassicaria* (Fabricus, 1775) (Map 11)

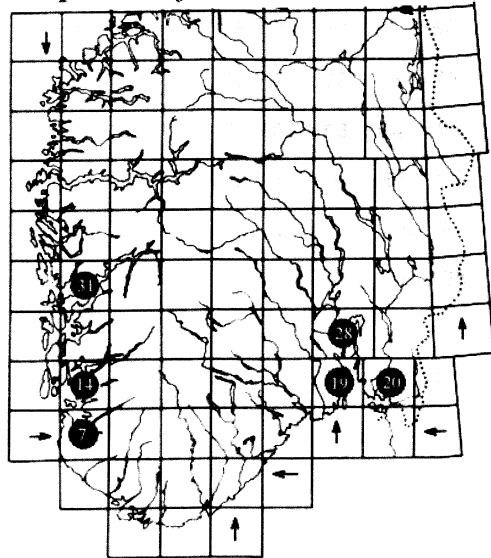
**Ø** Halden: Endetjern (EIS 12) 1♀ 12 August 1996 (M. Pettersen) (TJO); Sarpsborg: Råkil i Tune (EIS 20) 1♀ 28 August 1991 (T. J. Olsen) (TJO); Rygge: Sildebauen (EIS 19) 1♂ 23 July 1995 (L. Aarvik) (KR); **AK** Oslo: Oslo (EIS 28) 1♀ ?date (Siebke) 1♂ 1♀ ?date (L. M. Esmark) (ZMO); 1♂ ?date (L. M. Esmark) (TM); Bekkelaget (EIS 28) 1♂ 30 June 1847, 2♂♂ 1♀ 17 July 1851 (Siebke) (ZMO); Frogn: Håøya (EIS 28) 1♀ 18 August 1984 (F. Midtgaard) (KR); Sønnerstøa-Degerud (EIS 28) 1♂ 8 August 1935 (T. Soot-Ryen) (TM); Bærum: ?loc. (EIS 28) 1♂ ?date (W. M. Schøyen) (ZMO); Nordli 1,5 km NØ Østerås (EIS 28) 1♀ 30 July 1982 (K. Rognes) (KR); Steinshøgda (EIS 28) 1♂ 29 July 1977 (K. Rognes) (KR); Enebakk: Ekeberg (EIS 29) 1♀

*Cinochira atra*



**Map 9.** Distribution of records of *Cinochira atra* (Zetterstedt, 1845) in Norway.

*Lophosia fasciata*



**Map 10.** Distribution of records of *Lophosia fasciata* Meigen, 1824 in Norway.

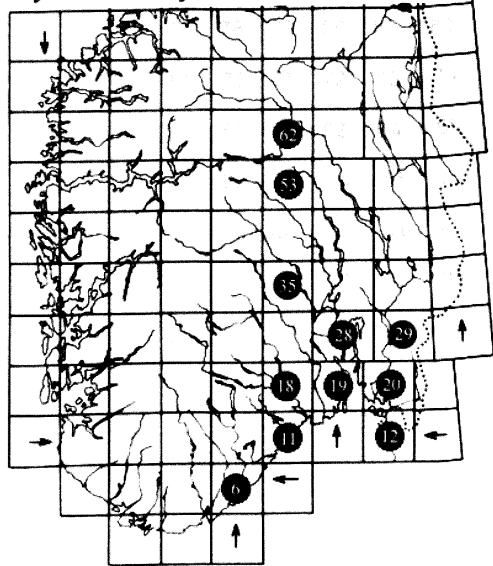
25 June-30 July 1991 (B. Økland, Collision-trap) (ZMB); Lørenskog: Losby (EIS 29) 1♀ 27 June-1 August 1991 (B. Økland, Collision-trap) (ZMB); OS Nord-Aurdal: Aurdal (EIS 53) 1♂ ?date (Siebke) (ZMO); ON Nord-Fron: Vinstra (EIS 62) 1♂ 10 June 1981 (S. Svendsen) (KR); BØ Drammen: Underlia (EIS 28) 1♀ June 1992 (L. O. Hansen) (ZMB); 1♂ 1♀ July 1995 (L. O. Hansen, M-trap) (KR/ZMO); Kongsberg: Hvitvingfoss (EIS 19) 1♂ 6 August 1979 (K. Rognes) (KR); Komnes (EIS 19) 1♂ 6 August 1979 (K. Rognes) (KR); BV Rollag: Rollag (EIS 35) 1♂ 9 August 1994 (B. Sagvolden) (ZMB); VE ?loc (EIS 19) 2♂♂ 1♀ ?date (O. Bidekap) (ZMB); Horten: ?loc (EIS 19) 1♀ 30 July 1890 (O. Bidekap) (ZMB); Tjøme: Moutmarka (EIS 19) 1♀ 4 July 1977 (A. Fjellberg) (ZMB); Kjære (EIS 19) 1♂ 15 July 1978 (A. Fjellberg) (ZMB); Hedrum: Vestmarka (EIS 19) 1♂ 21 July 1985, 1♂ 8 August 1985 (B. Borgersen) (KR/ZMO); TEY Porsgrunn: Helleåsen (EIS 11) 3♂♂ 2♀♀ 13 July-27 August 1995 (L. O. Hansen & O. Hanssen, M-trap) (KR/ZMO); TEI Sauherad: Nordagutu (EIS 18) 1♀ 26 July 1979 (K. Rognes) (KR); AAY Tvedestrand: Dypvåg (EIS 6) 1♀ 24 July 1960 (A. Løken) (KR); Hisøy: Ramsø (EIS 6) 1♂ 19 July 1935 (T. Soot-Ryen) (TM).

Bred from *Dolycoris* spp. (Pentatomidae, Heteroptera).

### *Cylindromyia interrupta* (Meigen, 1824) (Map 12)

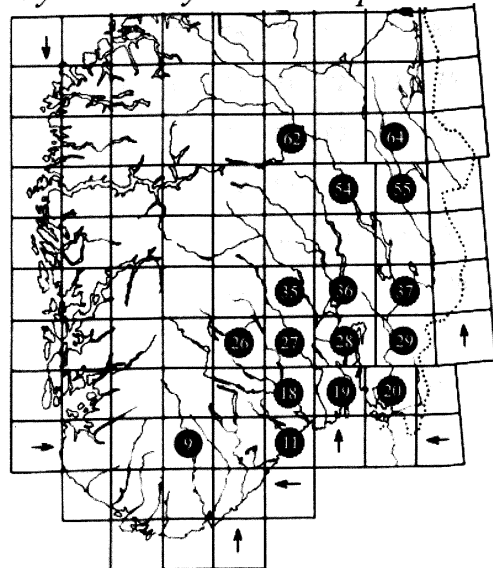
Ø Rakkestad: ?loc (EIS 20) 1♂ 21 July 1991 (T. J. Olsen) (TJO); AK Oslo: Bygdøy Hengsengen (EIS 28) 1♂ 1 June 1984 (L. Greve) (TJO); Vestby: Hølen (EIS 28) 1♂ 29 June 2002 (T. J. Olsen) (TJO); Frogn: Sønderstøa (EIS 28) 1♀ 8 August 1935 (T. Soot-Ryen) (TM); Bærum: Ostøya (EIS 28) 1♀ 31 May 1984 (F. Midtgaard) (KR), 1♀ 16 June 1985 (T. R. Nielsen) (KR); Øverland (EIS 28) 1♀ 23 June 1979 (K. Rognes) (KR); Sørumsand (EIS 37) 1♂ 4 June 1984 (F. Midtgaard) (KR); Enebakk: Ekeberg (EIS 29) 1♂ 25 June-30 July 1991 (B. Økland, Collision-trap) (ZMB); Ullensaker: Rambydalen (EIS 37) 1♂ 11 August 1994 (K. Sand, meadow), 2♂♂ 8 July 1995 (K. Sand, sweep net, meadow) (KR); Rambybråten

### *Cylindromyia brassicaria*



Map 11. Distribution of records of *Cylindromyia brassicaria* (Fabricius, 1775) in Norway.

### *Cylindromyia interrupta*



Map 12. Distribution of records of *Cylindromyia interrupta* (Meigen, 1824) in Norway.

(EIS 37) 1♂ 11 August 1996 (K. Sand, sweep net, forest) (KR); Sessvoll (EIS 37) 1♂ 26 June 1995, 1♂ 9 July 1995, 1♀ 26 June 1995, 3♀♀ 9 July (K.

Sand, sweep net, sand) (KR); **HES** Elverum: Vestad (EIS 55?) 1♀ 12 August 1979 (L. Aarvik) (KR/ZMO); **HEN** Åmot: 2-3 km N Deset (EIS 64) 1♀ 25 June 2003 (L. Greve) (ZMB); Åsta bru (EIS 55) 3 ♂♂ 29 June 1998 (L. Greve) (ZMB); **OS** Lillehammer: Gausa elv v/Flåkåli bru 5km V Fåberg (EIS 54) 1♂ 14 July 1982 (K. Rognes) (KR); Sør-Fron: Harpefoss (EIS 62) 1♂ 14 July 1981 (T. R. Nielsen) (KR); **ON** Nord-Fron: Kvam (EIS 62) 1♂ 10 June 1981 (S. Svendsen) (KR); Vinstra (EIS 62) 1♂ 10 June 1979 (S. Svendsen), 1♂ 6 July 1982 (F. Midtgaard), 1♂ 16 June 1984 (S. Svendsen) (KR); 1♀ 25 May-30 June 1992 (K. Myhr & L. O. Hansen) (ZMB); 3 km Ø Vinstra (EIS 62) 1♂ 17 July 1982 (K. Rognes, dissected) (KR); **BØ** Drammen: Underlia (EIS 28) 1♂ June 1992 (L. O. Hansen); 1♀ June 1994 (L. O. Hansen, M-trap) (ZMB); 1♂ 1♀ July 1995 (L. O. Hansen, M-trap) (KR/ZMO); Ringerike: Sokna sentrum v/ jernbanen (EIS 36) 1♂ 1♀ 30 July 2005 (L. Greve) (ZMB); Hurum: Verket (EIS 28) 1♀ 6 June-8 July 1995 (L. O. Hansen & O. Hanssen, M-trap sandy slope) (KR/ZMO); Flesberg: Lampeland (EIS 27) 1♂ 13 June 1984 (F. Midtgaard) (KR); **BV** Rollag: ?loc. (EIS 35) 1♂ 1 August 1984 ("NIR") (KR/ZMO); **VE** ?loc (EIS 19) 1♂ 1♀ ?date (O. Bidenkap) (ZMB); Tjølling: Løveskogen (EIS 19) 1♀ 15 August 1984 (B. Borgersen) (KR/ZMO); Brunlanes: Mørje, Tvedalen (EIS 11) 1♀ 20 June 1985 (B. Borgersen) (KR/ZMO); Hedrum: Lauvås (EIS 19) 1♂ 1♀ 6 July 1984 (B. Borgersen ?) (KR/ZMO); Roppestad (EIS 19) 1♀ 10 June 1984 (B. Borgersen) (KR/ZMO); **TEY** Porsgrunn: Helleåsen (EIS 11) 3♂♂ 1♀ 13 July-27 August 1995 (L. O. Hansen & O. Hanssen, M-trap) (KR/ZMO); **TEI** Sauherad: Nordagutu (EIS 18) 1♀ 19 June 1985 (T. R. Nielsen) (KR); Tinn: Håkånes (EIS 26) 1♂ 4 July 1983 (B. Sagvolden) (KR/ZMO); Hjartdal: Gvammen (EIS 26, 1♂ 12 July 1976 (T. R. Nielsen) (KR); **AAI** Bygland: Heddevika (EIS 9) 3♂♂ 11 June-4 July 1997 (K. Berggren, M-trap); 1♀ 11 June-1 July 1998 (K. Berggren) (ZMB).

Hosts unknown.

*Cylindromyia pusilla* (Meigen, 1824)  
(Map 13)

**AK** Bærum: Ostøya (EIS 28) 12♂♂ 12 August-1

September 1984 (F. Midtgaard, M-trap) (ZMB); Østerås (EIS 28) 1♂ 15 July 1981 (K. Rognes) (KR); Enebakk: Ekeberg (EIS 29) 3♀♀ 25 June-30 July 1991 (B. Økland, Collision-trap) (ZMB); Vangen (EIS 29) 5♂♂ 1♀ 24 June-29 July 1991; 1♂ 25 June-29 July 1991 (B. Økland, Collision-trap) (ZMB); Lørenskog: Losby (EIS 29) 1♂ 26 June-31 July 1991; 6♂♂ 9♀♀ 27 June-1 August 1991 (B. Økland, Collision-trap) (ZMB); Ullensaker: Sesvoll (EIS 37) 1♂ 9 July 1995 (K. Sand, sweep net sand) (KR); **HEN** Tynset: Tyllaldalen (EIS 72) 1♂ ?date (Siebke) (ZMO); **ON** Nord-Fron: 3 km Ø Vinstra (EIS 62) 3♂♂ 3♀♀ 17 July 1982 (K. Rognes) (KR); **BØ** Drammen: Underlia (EIS 28) 2♂♂ June 1992 (L. O. Hansen); 6♂♂ June 1994 (L. O. Hansen, M-trap) (ZMB); 1♂ July 1994, 2♂♂ July 1995 (L. O. Hansen, M-trap) (KR/ZMO); Ringerike: Sokna sentrum v/ jernbanen (EIS 36) 2♂♂ 30 July 2005 (L. Greve) (ZMB); **TEY** Porsgrunn: Helleåsen (EIS 11) 6♂♂ 1♀ 13 July-27 August 1995 (L. O. Hansen & O. Hanssen, M-trap) (KR/ZMO); Bamble: Langøya (EIS 11) 1♂ 6-31 July 1995 (L. O. Hansen & R. Mehl, M-trap pine forest) (KR/ZMO); **TEI** Kviteseid: Kviteseid gamle kirke (EIS 17) 1♀ 25 June 1980 (K. Rognes) (KR); Skredtveit (EIS 17) 1♂ 5 July 1980 (K. Rognes) (KR); Vrådal v/ Nordbø (EIS 17) 1♂ 6 July 1980 (K. Rognes) (KR); **VAY** Kristiansand: Marvika (EIS 2) 1♀ 16 June 2003 (K. Berggren) (KR/ZMO); Mandal: Mandal (EIS 2) 1?sex 14 July 1935 (T. Soot-Ryen) (TM).

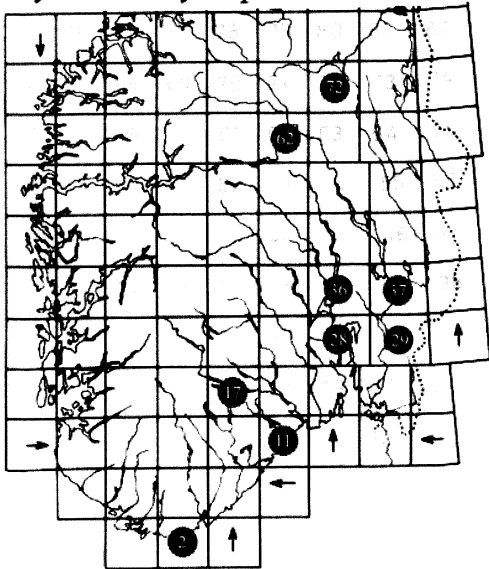
Bred from *Sciocoris cursitans* F. (Pentatomidae, Heteroptera).

*Phania thoracica* Meigen, 1824 (Map 14)

**HEN** Åmot: Åset (EIS 55) 1♂ 7 July 1848, 1♀ ?date (Siebke) (ZMO); **BØ** Hurum: Tofteholmen (EIS 19) 1♀ 7-31 July 1991 (L. O. Hansen, M-trap) (KR/ZMO); **VAY** Kristiansand: Hamresanden (EIS 2) 1♂ 25 July 1977 (T. R. Nielsen) (KR); Farsund: Våge (EIS 1) 1♀ 12 July 1998 (K. Rognes) (KR); Lindesnes: Jørgenstad (EIS 1) 1♂ 26 June 1995 (T. R. Nielsen) (KR); **RY** Lund: Moi (EIS 4) 1♂ 25 June 1982 (T. R. Nielsen) (KR); **NSI** Rana: Mo i Rana (EIS 123) 1♂ 2 July 1983 (T. R. Nielsen) (KR).

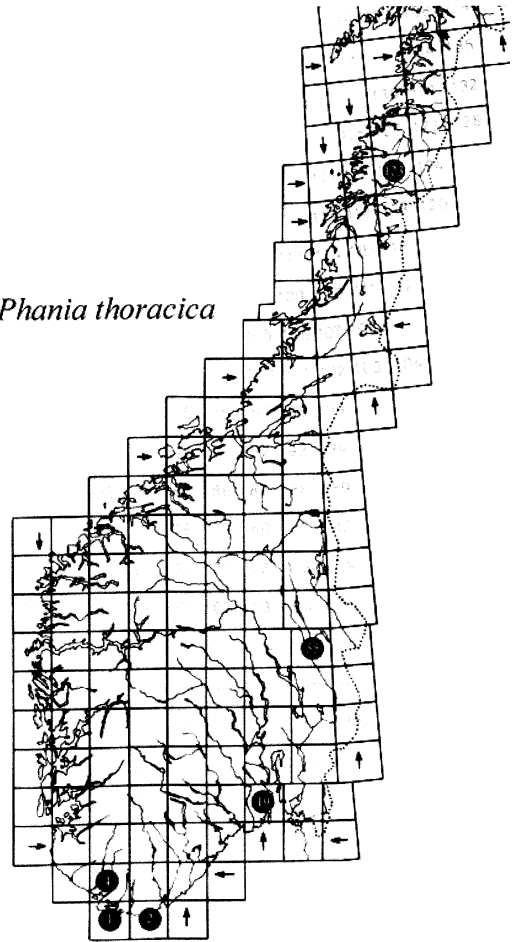
Hosts unknown.

*Cylindromyia pusilla*



**Map 13.** Distribution of records of *Cylindromyia pusilla* (Meigen, 1824) in Norway.

*Phania thoracica*



**Map 14.** Distribution of records of *Phania thoracica* Meigen, 1824 in Norway.

**Acknowledgements.** Many thanks to Kai Berggren, Lars Ove Hansen, Stein Joar Hegland, Tore R. Nielsen, Ketil Sand and Reidar Voigt for gift and/or loan of material; to Hans-Peter Tschorsnig (Stuttgart) for checking the identity of a peculiar specimen of *Phasia obesa*; to Thor Jan Olsen for letting me study and restudy specimens in his private collection; and to the curators of the insect collections of Zoologisk Museum, University of Oslo (Jan Emil Raastad, Lars Ove Hansen), Zoologisk Museum, University of Bergen (Lita Greve Jensen), and Tromsø University Museum (A. Fjellberg, A. C. Nilssen) for loan of material.

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*Received 22 September 2005,  
accepted 22 November 2005*