

# The Hoverfly genera *Anasimyia* Schiner, *Helophilus* Meigen, *Parhelophilus* Girschner and *Sericomyia* Meigen in Norway (Diptera, Syrphidae)

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Five *Anasimyia*, six *Helophilus*, two *Parhelophilus* and five *Sericomyia* species are reported from the Norwegian fauna, with data on ecology, flight periods and distribution in Norway. *S. jakutica* (Stackelberg), previously only known from East Siberia, has been found in northern Norway and Sweden. The male genitalia of some of the species are figured and keys for Scandinavian *Helophilus* and *Sericomyia* species provided. A lectotype has been selected for *Syrphus borealis* Fallén and *Cinxia intermedia* Ringdahl.

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## INTRODUCTION

Thirteen genera and fifty-four hoverfly species with aquatic larvae have been reported from the Norwegian fauna (Nielsen 1996). The present paper gives data on ecology, flight periods and distribution in Norway for four of the genera concerned.

Some of the *Anasimyia* and *Parhelophilus* species are rare in Norway in having a restricted occurrence (a few lowland lakes under influence of man). Such species should be regarded as threatened in our fauna.

A number of collectors and collections have contributed with material for this paper. The following abbreviations for these are:

ALØ Astrid Løken  
AN Arne Nielsen  
BJB Bjørnar Borgersen  
BSA Bjørn Sagvolden  
DJO D.W.B. Johansen  
ESP Eva Songe Paulsen  
FJB Arne Fjellberg  
FRJ Fritz Jensen  
GRE Lita Greve Jensen

HUR Helge Huru  
IMN Inger M. Nielsen  
IST Ivar Stokkeland  
JSK John Skartveit  
KHN Kristin H. Nielsen  
LAA Leif Aarvik  
LUC Jan A.W. Lucas, Rotterdam  
MFA Morten Falck  
ROG Knut Rognes  
SCH W.M. Schøyen  
SIE H. Siebke  
TRY Tron Soot-Ryen  
SSV Svein Svendsen  
TAN Thorvald Arne Nielsen  
TJO Terje Jonassen  
TRM Tromsø Museum  
TRN Tore R. Nielsen  
VBI Vitezslav Bicik, Olomouc  
WES A. Wessel  
ZMB Zoological Museum, Bergen  
ZMB Zoological Museum, Oslo

If nothing else is mentioned, the material has been collected by or is in the collection of the author. The faunal codes are in agreement with those of Økland (1981).

## SYSTEMATIC LIST

Genus *ANASIMYIA* Schiner, 1864.

Claussen & Torp (1980), Speight (1981), Stubbs & Falk (1983) and Torp (1994) give useful characters and keys for the species of this genus.

*A. contracta* Claussen & Torp, 1980. Map 1.

AK, Oslo: Østensjøvann EIS 28, on swampy lake shore with *Typha* and *Potentilla palustris*, 21 July 1970 3♂♂, 2♀♀ leg. and coll. TRN., Bærum: Tjernsmyr EIS 28 28 June 1986 1♂ leg. GRE, in coll. ZMB. VE, Stokke: Robergsmyra EIS 19 12 July 1969 2♂♂ leg. FJB, in coll. ZMB.

Distribution and ecology: up till now only known from lowland localities (SE-Norway), on rich bogs and at the borders of eutrophic lakes.

Flowers visited: *Potentilla palustris*.

Flight period: the few finds indicate June-July.

*A. interpuncta* (Harris, 1776). Map 2.

VE, Stokke: Robergsmyra EIS 19 6 July 1969 1♀, leg. FJB, in coll. ZMB. TEY, Skien: Børsesjø EIS 18 15 June 1981 2♂♂, 9♀♀ leg. and coll. TRN. Ø, Hvaler EIS 12 1♀ leg. SCH., in coll. ZMO. HES, Åmot EIS 55 1♀ leg. SIE, in coll. ZMO. TRI, Balsfjord: Sjøvikør EIS 154 13 Aug. 1941 1♀ leg. SRY, in coll. TRM.

Distribution and ecology: where the ecology of the localities is known, the finds refer to the borders of eutrophic lakes.

Flowers visited: no data.

Flight period: mid June - mid August.

*A. lineata* (Fabricius, 1787). Map 3.

Previous records: Siebke (1877), Nielsen (1966 and 1972a).

New records: a great number from all parts of the country.

Distribution and ecology: like the other species of the genus, also *lineata* seems to be a lowland species: on bogs, moors and humid meadows, at the borders of lakes, ditches and ponds, and along river banks.

Flowers visited: *Ranunculus acris*, *Caltha palustris*, *Potentilla palustris*.

Flight period: end May - beginning August.

*A. lunulata* (Meigen, 1822). Map 4.

Previous records: Siebke (1877) and Nielsen (1966,

1972a).

New records: AK, Oslo: «Kristiania» (= Oslo) EIS 28 1♀ leg. ESM, in coll. ZMO, Brønnøya EIS 28 15 June 1981 1♀, in humid meadow with *Carex*, *Phragmites* and *Ranunculus*; Ås: southern border of lake Årungen 17 July 1970 1♀. HEN, Åmot: Åset EIS 55 1♂ leg. SIE, in coll. ZMO. VE, Tjøme: Sandø EIS 19 10 July 1966 1♀ leg. FJB, Tjøme EIS 19 25 July 1966 1♀ in humid field close to the sea, leg. FJB, Mostrand EIS 19 24 June 1969 2♂♂ leg. FJB. RY, Finnøy: Sevheim EIS 14 7-9 July 3♂♂ leg. JSK, Karmøy: Skudeneshavn EIS 13 9 June 1973 4♂♂ in swampy field with *Caltha palustris*. HOY, Bergen: Kronåsen EIS 30 9 June 1970 2♂♂, in coll. ZMB and TRN, Paradis EIS 30 27 May 1970 1♂, in coll. ZMB. TRI, Målselv: Takelvdal EIS 154 12 July 1979 1♀. FØ, Sør-Varanger: Fiskevann EIS 160 14 July 1969 2♂♂, in coll. ZMB, Øvre Pasvik, Hestefoss EIS 160 9 July 1974 1♂ leg. FJB.

Distribution and ecology: scattered finds in as well South as North Norway; in humid fields, on bogs and swamps.

Flowers visited: *Caltha palustris*, *Potentilla palustris*, *Taraxacum* sp.

Flight period: end May - beginning August.

*A. transfuga* (Linnaeus, 1758). Map 5.

Previous records: Oslo EIS 28 (Nielsen, 1972c).

New records: AK, Oslo: Østensjøvann EIS 28 21 July 1970 3♂♂, 1♀. Ås: southern border of lake Årungen EIS 28 17 July 1970 1♀. BØ, Nedre Eiker: Miletjern, Mjøndalen EIS 28 3 Aug. 1988 1♀, leg. DJO. TEY, Skien: Børsesjø EIS 18 15 June 1981 3♂♂.

Distribution and ecology: in lowland localities in South Norway, at the borders of eutrophic lakes.

Flowers visited: *Potentilla palustris*.

Flight period: mid June - beginning August.

Genus *HELOPHILUS* Meigen, 1822.

Key: Table 1.

*H. affinis* Wahlberg, 1844. Figure 4a. Map 6.

syn. *borealis* Siebke, 1864 nec Stæger.

syn. *siebkei* Verrall, 1901 (nom. nov. for *borealis* Siebke)

Previous records: East Norway (Siebke, 1877) and Jæren (Nielsen, 1966).

New records: ON, Fron: Harpefoss EIS 62 12 July 1981 1♂. VE, Brunlanes: Pauler EIS 19 15 Aug. and 1 Sept. 1982 1♂, 1♀ leg. BJB. TEI, Nissedal EIS 17 26 July 1976 1♀. AAY, Grimstad: Metveit EIS 6 25 July 1976 1♂. VAY, Lindesnes: Jørgenstad at Spangereid EIS 1 8 Aug. 1978 3♂♂,

20 July 1979 1♂, 28 July 1981 1♂, Ramsland EIS 1 20 July 1980 1♂, Goksem EIS 1 6 Aug. 1981 1♀ leg. ROG., Lyngdal: Optedal EIS 1 6 Aug. 1975 1♂. RY, Sola: Rott EIS 7 3 Aug. 1924 1♂ leg. FRJ, in coll. TRM. FV, Alta: Gargia EIS 162 3 Aug. 1982 1♂ leg. GRE, in coll. ZMB. FN, Porsanger: Lakselv EIS 174 26-27 June 1979 2♀ leg. IMN. FØ, Sør-Varanger: Neiden EIS 168 7 July 1983 3♂♂, 1♀ leg. KHN and TAN, Skogly EIS 160 18 July 1969 1♀, Svanevatn EIS 169 19 July 1899 1♂ and Jarfjord EIS 169 1 Aug. 1891 1♀ both leg. WES and in coll. TRM. An uncommon species, found in single or only a few specimens.

Distribution and ecology: found in all parts of Norway, in open forests and on flowering meadows, but also on the tundra of northern and eastern Finnmark.

Flowers visited: *Ranunculus acris*, *Achillea millefolium*, *Chrysanthemum leucanthemum*, *Senecio jacobaea*, *Valeriana* sp. and *Rubus idaeus*.

Flight period: mid June - early September, with a peak in July - beginning of August.

#### *H. borealis* Siebke, 1864.

As this name is a junior primary homonym of *borealis* Stæger, 1845, Verrall (1901) gave it a new name, *siebkei*. The species was described as new on basis of a male specimen from Vårstigen at Kongsvoll, Sør-Trøndelag (Siebke, 1864: 166). I have examined the type (in coll. ZMO) and agree that it is synonymous with *affinis* Wahlberg, as quoted by Soós and Papp (1988).

#### *H. borealis* Stæger, 1845.

Thompson has found *borealis* to be a junior synonym of *lapponicus* Wahlberg, 1844 (pers. comm.) and will publish this in his forthcoming catalog to Nearctic flower flies (Thompson, *in litt*).

*H. borealis* shows some variability in the presence of grey dust spots on tergites 3-4, «characters» which have been used to separate the two supposed species. The «*lapponicus*» form was without grey spots on the tergites, and the «*borealis*» form with such markings. Norwegian material from one and the same population (e.g. from Vadsø) shows both colour forms, with a series of different shades in between. The specimens are otherwise identical in male genitalia and in all other respects. I have also examined lectotypes and paralectotypes of both *borealis* and *lapponicus*, and fully support Thompsons conclusions.

*H. groenlandicus* (Fabricius, 1780). Figures. 3d-e, 4b. Map 7. Previous records: under the name *arcticus* Zett. Siebke (1877) reported this species from Oslo (probably mislabelled specimen) and Dovre.

New records: HOI, Kinsarvik: Stavalimrådet, alpine pasture 1050 m a.s.l., EIS 32 3 Aug. 1968 1♀, leg. FJB, in coll. ZMB. TRI, Målselv: Frihetsli EIS 147 17 July 1922 1♂, 1♀, leg. SRY, in coll. TRM. FV, Alta: Jotkajavre EIS 165 15 July 1924 1♂, leg. SRY, in coll. TRM. FN, Vadsø: Vadsø, cultivated meadow near camping ground, 9-10 July 1983 4♀♀, one specimen on flowering *Allium sibiricum*; Tana: Seida EIS 176 24 July 1989 1♂ on *Matricaria inodora*. FØ, Sør-Varanger: Fiskevann, Pasvik EIS 160 14 and 17 July 1969 3♂♂, 5♀♀, in coll. ZMB and TRN.

Distribution and ecology: an alpine and high boreal tundra and taiga species.

Flowers visited: *Allium sibiricum* and *Matricaria inodora*.

Flight period: July - early August.

#### *H. hybridus* Loew, 1846. Figure 1. Map 8.

Previous records: Nielsen (1966 and 1969).

New records: AK, Eidsvoll: Eidsvoll EIS 37 3 July 1981 1♂. OS, Ringebu: Ringebu EIS 63 9 July 1974 1♀. BV, Hol: Geilo EIS 43 18 July 1978 1♀. VE, Tjøme: Robergsmyra EIS 19 10 Aug. 1969 1♀ and Mostrand EIS 19 31 Aug. 1969 5♂♂, both leg. FJB, in coll. ZMB and TRN. TEY, Skien: Børsesjø EIS 18 15 June 1981 1♂, 1♀. VAY, Kristiansand: Stangenes EIS 2 13 June 1982 1♀, leg. SSV. RY, Hå: Ognå EIS 3 26 Aug. 1973 1♀; Sandnes: Skeiane EIS 7 17 May 1972 1♂; Stavanger: Ullandhaug EIS 7 12 May 1981 1♀, leg. TJO. HOY, Bergen: Åstveit EIS 39 12 July 1972 1♀, leg. GRE. FV, Alta: Stengelsen EIS 173 19 July 1986 1♂, leg. HUR, Malaisetrapp, in coll. TRM. FI, Kautokeino: Kautokeino EIS 157 3-4 July 1979 8♂♂, 2♀♀. FN, Porsanger: Lakselv EIS 174 26-27 July 1979 5♀♀. FØ, Sør-Varanger: Gjøkvann, Pasvik EIS 160 11 July 1969 1♀, in coll. ZMB.

Distribution and ecology: scattered finds in South and North Norway. On flowering meadows, along ditches, on borders of eutrophic lakes and ponds (most abundant), on bogs and in open, humid coniferous forests.

Flowers visited: *Ranunculus acris*, *Rubus idaeus*, *Potentilla palustris*, *Sanguisorba officinalis*, *Vaccinium myrtillus*, *Myosotis* sp., *Valeriana sambucifolia*, *Arnica montana*, *Taraxacum* sp.

Flight period: mid May - end August.

#### *H. lapponicus* Wahlberg, 1844. Figures 3a-c, 4c. Map 9.

ON, Skjåk: Marlo EIS 70 19 May 1980 1♀ leg. FJB. STI, Oppdal: Kongsvoll EIS 79 28 July 1873 1♀ leg. SIE, in coll. ZMO; 1 July 1963 4♂♂, 1♀ leg. AN. TRI, Målselv: Frihetsli EIS 147 13-31 July 1922 8♂♂, 2♀♀ leg. SRY, in coll. TRM.; Rundhaug EIS 154 13 July 1953 1♀ and Trosdal EIS

154 11 July 1955 1♀ both leg. ALØ and in coll. ZMB. FV, Alta: Jotkajavre EIS 165 15 and 26 July 1924 7♂♂, 1♀ leg. SRY, in coll. TRM; Grønnåsen, Gargia EIS 165 30 June 1979 1♂; Stengelsen EIS 173 14 July 1986 1♀ leg. HUR, in coll. TRM; Skjæragenta EIS 165 23 June 1984 3♂♂. FI, Kautokeino EIS 157 3-4 July 1979 1♂, 2♀♀; Suolovuobme EIS 165 24 June 1984 2♂♂. FN, Vadsø: Vadsø, on cultivated meadow near camping ground, EIS 177 9-10 July 1983 29♂♂, 3♀♀, in numbers visiting flowering *Allium sibiricum*. Porsanger: Lakselv EIS 174 1♀ leg. SCH, in coll. ZMO; Festningstuen EIS 166 29 July 1924 1♂ leg. SRY, in coll. TRM; Lakselv EIS 174 26-27 July 1979 2♂♂; Russenes EIS 181 28 June 1979 7♂♂ on pasture with dig ditches; Tana: Seida EIS 176 24 July 1989 2♂♂ on flowering, cultivated meadow near farm houses; Kongsfjordfjellet N of Jula-høgda EIS 184 12 July 1985 1♂ leg. FJB, in coll. TRM; Nes-seby: Varangerbotn EIS 177 3 July 1977 1♀. FØ, Sør-Varanger: Gjøkvann EIS 160 11-12 July 1969 1♂, 1♀; Fiskevann EIS 160 24 June 1966 1♀, leg. ZMO expedition; 14 and 17 July 1969 1♂, 4♀♀; Neiden EIS 168 July 1901 1♂, in coll. TRM; 7 July 1983 1♀ KHN and TAN, 21 July 1989 1♂.

Distribution and ecology: an arctic/subarctic tundra species with its main occurrence in Norway in Finnmark and Troms counties, but probably also with populations in the alpine zones further south. I have found it most abundantly in arctic farmland areas, where it probably was attracted to and gaining from manure polluted ponds and ditches.

Flowers visited: *Allium sibiricum*, *Ranunculus acris* and *Matricaria indora*.

Flight period: late June - July/August.

Remarks: a rather variable species concerning the grey stripes on mesonotum and on tergite 3-4. See comments on *H. borealis* Stæger.

*H. pendulus* (Linnaeus, 1758). Map 10.

Previous records: Siebke (1877), Nielsen (1966).

New records: from all parts of the country.

Distribution and ecology: our most eurytope *Helophilus* species, inhabiting a great variety of biotopes, up till 1500 m a.s.l.

Flowers visited: *Salix repens*, *Ranunculus acris*, *Cakile maritima*, *Brassica rapa*, *Sedum acre*, *Sorbus aucuparia*, *Rubus idaeus*, *Potentilla palustris*, *P. fruticosa*, *P. erecta*, *Calluna vulgaris*, *Vaccinium myrtillus*, *Myosotis* sp., *Valeriana sambucifolia*, *Succisa pratensis*, *Matricaria indora*, *Arnica montana*, *Senecio jacobaea*, *Taraxacum* sp., *Leontodon autumnalis* and *Hieracium* sp.

Flight period: mid May - mid October.

*H. trivittatus* (Fabricius, 1805). Figure 2. Map 11.

Previous records: Nielsen (1966).

New records: AK, Oslo: Brønnøya EIS 28 15 June and 11 July 1981 2♀♀. HES, Elverum: Vestad EIS 55 24 Aug. 1979 1♀, leg. LAA. TEI, Rjukan EIS 26 4 June 1979 1♀, leg. and coll. BSA. AAI, Evje og Hornnes: Bjørndalsvann EIS 5 27 Aug. 1967 1♂, leg. FJB, in coll. ZMB. VAY, Kristiansand: Bjørnstad EIS 2 14 July 1972 1♀, Gimle-moen EIS 2 19 Aug. 1967 1♂, leg. FJB, in coll. ZMB; Lindesnes: Jørgenstad near Spangereid EIS 1 8 Aug. 1978 7♂♂, 7♀♀ and 24 July 1981 2♂♂, 1♀, Ramsland EIS 1 20 July 1980 1♀. RY, Klepp: Reve EIS 7 2 Sept. 1979 9♂♂, 5♀♀. NTI, Melhus: Melhus EIS 92 8 June 1985 1♂, leg. BJB.

Distribution and ecology: in south Norway, mainly in coastal areas, but also in the valleys inland: on flowering bogs, moors, lake shores, river banks, pastures and flowering meadows, sand-dunes by the sea.

Flowers visited: *Sedum acre*, *Potentilla palustris*, *Valeriana sambucifolia*, *Arnica montana*, *Senecio jacobaea*, *Hieracium* sp.

Flight period: early June - early September.

Genus *PARHELOPHILUS* Girschner, 1897.

Keys: Stubbs & Falk (1983), Torp (1994) and Stubbs (1996).

*P. consimilis* (Malm, 1863). Map 12.

Previous records: the Jæren district, SW Norway (Nielsen 1966 and 1972a).

New records: AK, Bærum: Tjernsmyr EIS 28 28 June 1986 1♀, leg. GRE, in coll. ZMB. OS, Ringebu: Brandval EIS 63 10 July 1974 1♂. VE, Stokka: Robergsmyra EIS 19 6-15 July 1969 5♂♂, 5♀♀, leg. FJB, in coll. ZMB and TRN. TEI, Notodden: Notodden EIS 27 11 July 1976 4♀♀. RY, Stavanger: Mosvatnet EIS 7 2 July 1981 1♂, leg. ROG, Sandnes: Stokka EIS 7 17 June 1972 2♂♂ and 7 June 1973 1♂; Klepp: Kleppe EIS 7 23 July 1972 2♀♀. Alvevatn EIS 7 29 June 1972 1♂, Øksnevadtjern EIS 7 10 June-17 July 1972-1984 18♂♂, 5♀♀; Sola: Gimra EIS 7 30 July 1973 1♀, Harvalandsvatn EIS 7 20 June 1972 1♂, 1♀; Strand: Tau EIS 14 9 June 1979 1♂, leg. GRE; Finnøy: Sevheim EIS 14 26 June 1995 1♂, 1♀ leg. JSK; Karmøy: Eide near Kopervik EIS 13 27 June 1974 2♂♂.

Distribution and ecology: scattered localities in coastal areas and in the valleys of south Norway: found most abundantly at the borders of eutrophic lakes, otherwise on bogs with flowering *Potentilla palustris*.

Flowers visited: *Potentilla palustris*.

Flight period: early June - end July.

*P. versicolor* (Fabricius, 1794). Map 13.

Previous records: Lake Østensjøvann, Oslo (Nielsen, 1972c)

New records: AK, Oslo: Stabekk EIS 28 24 June 1873 1 ♀, leg. SIE, in coll. ZMO. VE, Stokke: Robergsmyra EIS 19 6 July 1969 1 ♀, leg. FJB. AAY, Tromøy EIS 6 7 July 1982 1 ♂, leg. IST. VAY, Kristiansand: Bjørnstad EIS 2 14 July 1972 1 ♀.

Distribution and ecology: scattered lowland localities in South-east Norway, on borders of eutrophic lakes and swamps.

Flowers visited: *Typha latifolia*.

Flight period: late June - July.

Genus *SERICOMYIA* Meigen, 1803.

Key: Table 2.

*S. arctica* Schirmer, 1913. Figure 4e-g, and i, 6d. Map 14.

FØ, Sør-Varanger: Gjøkåsen EIS 160 20 June 1990 2 ♂ ♂, Fiskevann EIS 160 14 July 1969 4 ♂ ♂ (1 ♂ in coll. ZMB), 17 July 1969 1 ♂, on both dates the specimens were observed flying around small ponds polluted with horse manure. Sweden, Abisko 17 July 1918 1 ♂, leg. O. Ringdahl.

Distribution and ecology: a subarctic and arctic species found in open, humid pine forests and on moors and bogs (Finnmark and northern Sweden).

Flowers visited: *Rubus chamaemorus*, *Achillea millefolium*.

Flight period: mid June-July.

Remarks: Schirmers collections and types are kept in Zoological Museum, University of Bergen. I have examined the male holotype of *arctica* and figured its genitalia.

*S. jakutica* (Stackelberg, 1927) Figure 4h and j, 6e. Map 15.

New to Scandinavia. Norway, FN, Porsanger: Kistrand EIS 181 1 ♂, leg. SCH, in coll. ZMO. Sweden, Abisko 1 ♂ 2 July 1922 leg. O. Ringdahl in coll. ZIL and 22 June 1972 1 ♂, leg. FJB, in coll. TRN.

Stackelberg (1927) described this species on basis of a single male from northern Yakutia, east Siberia. Violovitsh (1983) also reports it from this area.

*S. jakutica* is very similar to *arctica*. In his description Stackelberg (op.cit.) claims that it can be separated from

*arctica* by its black hind tibia and tarsi (reddish in *arctica*), and Violovitsh gives additional characters. In the material at my disposal (one male from Yakutia, det. Violovitsh and the two Scandinavian males), I have found these characters variable, but there are good differences in the male genitalia. I have not been able to separate the females.

*S. lappona* (Linnaeus, 1758). Figure 5b, 6b. Map 16.

syn. *Bulboscrobia undulans* Gaunitz, 1937: 91

Previous records: Siebke 1877, Nielsen 1972a, 1972b.

New records: from all parts of the country.

Distribution and ecology: common and widespread, in forests (deciduous and coniferous), on meadows, bogs and moors. Frequent also in high mountain areas, found up till 1050 m a.s.l.

Flowers visited: *Ranunculus acris*, *Rubus ideaus*, *Potentilla erecta*, *Vaccinium myrtillus*, *V. uliginosum*, *Vaccinium vitis-idaea*.

Flight period: end May - mid August.

Remarks: As known from Torp (1984) *Bulboscrobia undulans* was a name used by Gaunitz (1937) for two aberrant females of *S. lappona*. I have examined both types. The holotype is labeled «Typus», «Sm. Korsberga Holm «Kärret» 15.7.1927, D. Gaunitz» and «*Bulboscrobia undulans* Gaun.». It diverges from normal *lappona* specimens in having a dented, quite black and rather dull abdomen (Figure 5b.). The paratype has a similar appearance, but it is partially eaten by insects.

*S. nigra* Portschinsky, 1873. Figure 6c. Map 17.

syn. *intermedia* Ringdahl, 1922 (as *Cinxia*): 179.

AK, Oslo: Rustadsaga EIS 28 4 Aug. 1981 1 ♀ and 1 Aug. 1993 1 ♀; Rustad EIS 28 20 July 1985 1 ♂, 1 ♀; Lutdalen EIS 28 24 July 1985 9 ♂ ♂, all leg. and in coll. MFA. Ø, Askim: Øyerud EIS 29 6 July 1976 1 ♀. HES, Åsnes: Flisa EIS 47 30 June 1975 1 ♀; Elverum: Grundset EIS 55 1 ♀, leg. SIE, in coll. ZMO and Kynneberget EIS 55 21 July 1981 1 ♀, leg. and in coll. MFA. BV, Rollag: Rollag boligfelt EIS 35 1 Aug. 1984 1 ♀, leg. BSA. TEI, Seljord: Ulvenes EIS 17, 25 July 1979 1 ♀, leg. ROG; Kviteseid: Lauve, Vråvatn EIS 17 5 July 1980 1 ♀, leg. ROG. HOY, Bergen: Sandviksfjellet EIS 39 19 July 1981 1 ♀, leg. ESP. STI, Orkdal: Songli EIS 91 13 June 1988 1 ♂, leg. and coll. VBI. NSI, Rana: Mo i Rana EIS 123 2 July 1983 1 ♀. NNØ, Narvik: Narvik EIS 139 3 July 1980 1 ♀, leg. and coll. LUC. TRI, Målselv: Frihetsli EIS 147 27 July 1922 1 ♀, leg. SRY, in coll. TRM. FØ, Sør-Varanger: Hestefoss, Øvre Pasvik EIS 160 9 July 1974 1 ♂ leg. FJB.

Distribution and ecology: a rare species often taken in single specimens only, in open forests and on meadows in as well South as North Norway.

Flowers visited: *Valeriana sambucifolia*.

Flight period: June - early August.

Remarks: In 1922 O. Ringdahl described *Cinxia intermedia* from Abisko, northern Sweden. Later (1931) he concluded that his specimens should be males of *nigra* Stackelberg, which was described on basis of a female. I have selected one of the three *intermedia* males, dated «Abisko 11.7.-22» as lectotype and the other two as paralectotype and labeled them accordingly, hereby designated. I have not been able to examine the *nigra* type, but the *intermedia* males and their genitalia, are identical with those of *nigra*.

*S. silentis* (Harris, 1776). Figures 5a, 6a. Map 18.

Previous records: Siebke (1877) and Nielsen (1969, 1972a).

New records: from all parts of the country, except for Finnmark.

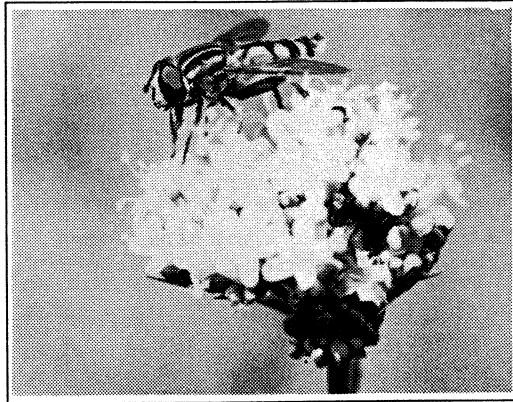


Figure 1

*Helophilus hybridus*, female in *Valeriana* flower.

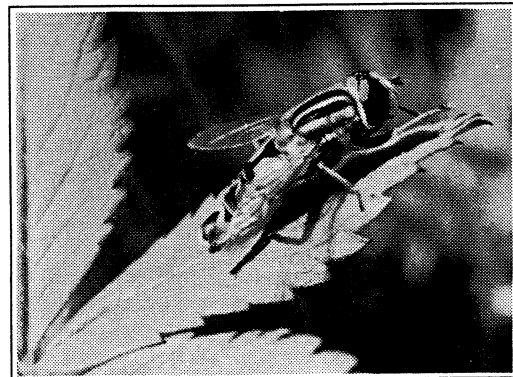
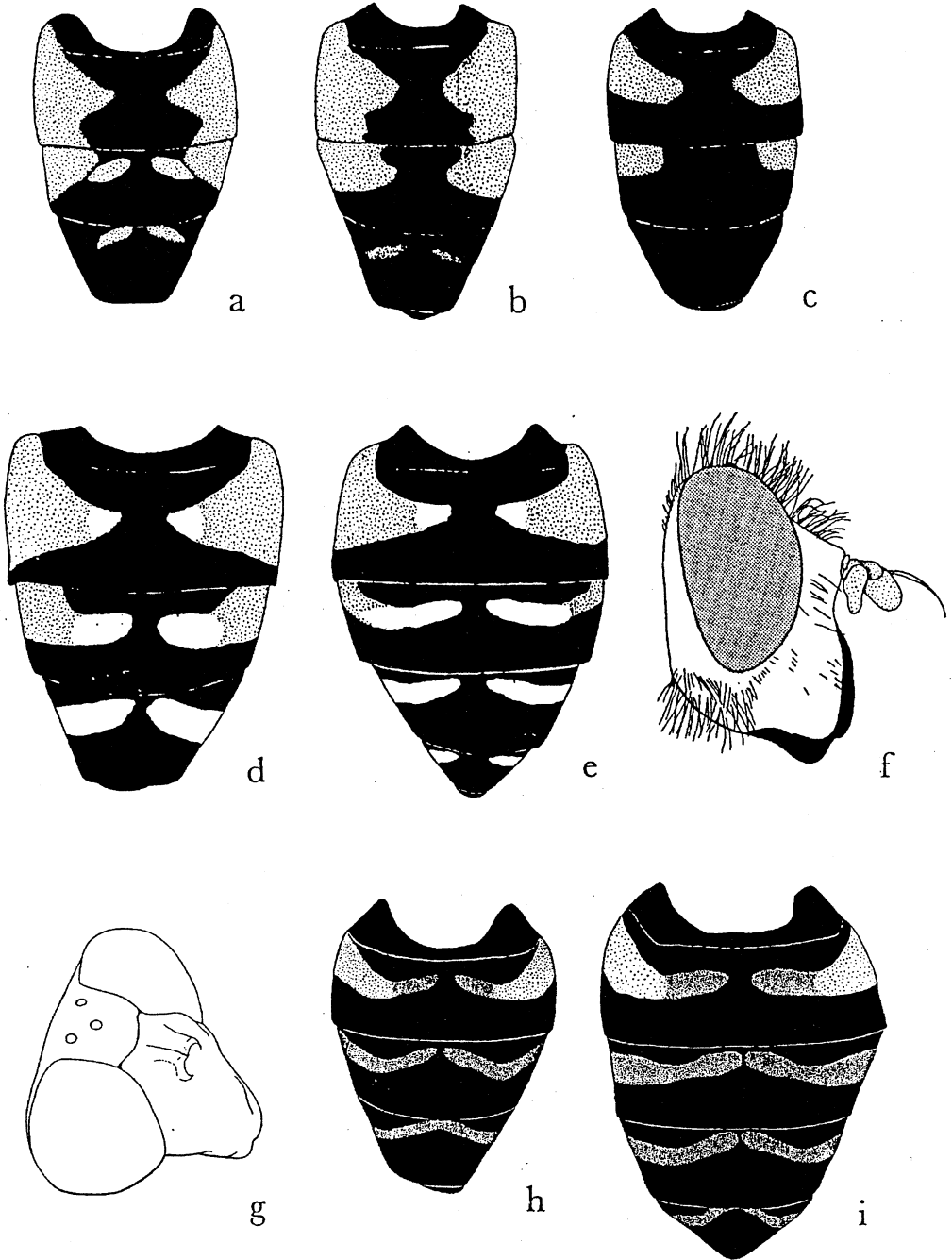


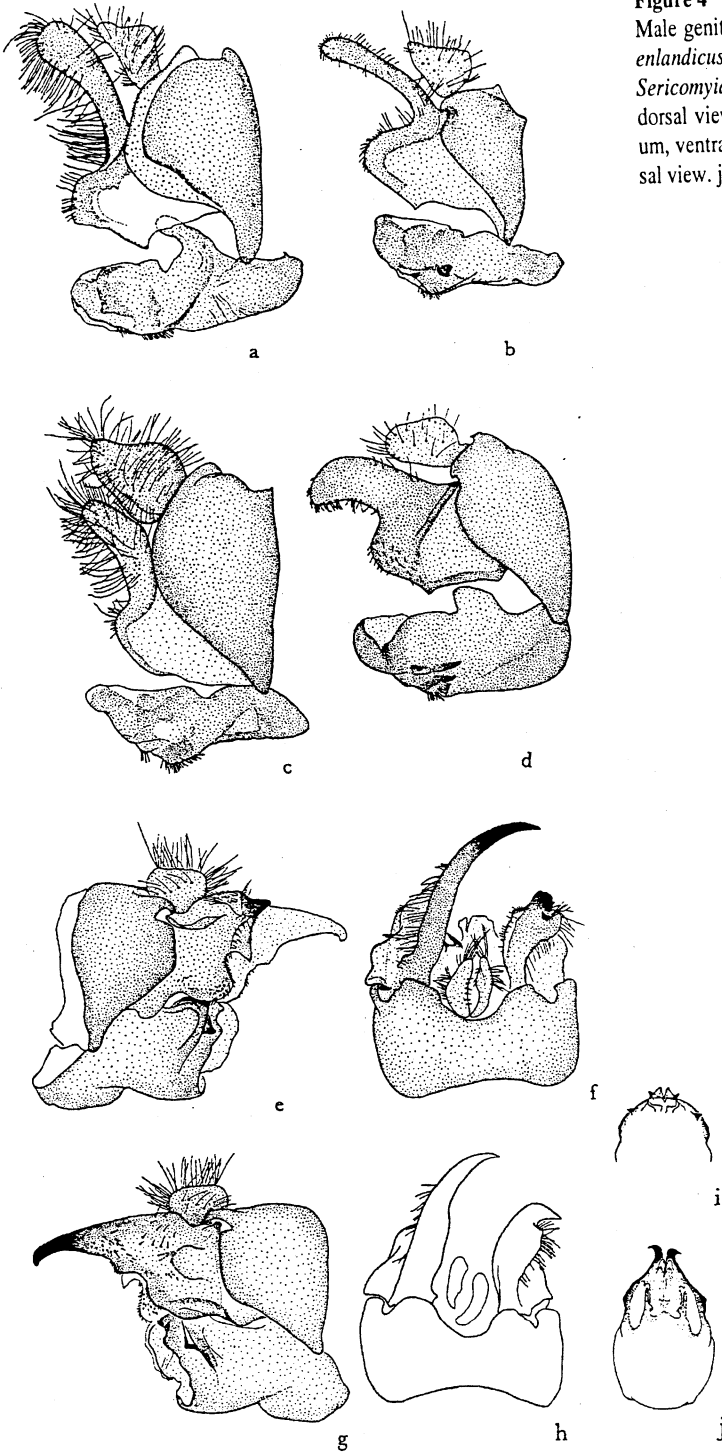
Figure 2

*Helophilus trivittatus*, male sunbathing.



**Figure 3**

a-c: *Helophilus lapponicus*, male abdomen. d-e: *H. groenlandicus*, d: male abdomen, e: female abdomen. f-i: *H. bottnicus* (Yakutia), f: male head in profile, g: female head (dorsolateral view), h: male abdomen, i: female abdomen.



**Figure 4**  
Male genitalia. a: *Helophilus affinis*, b: *H. groenlandicus*, c: *H. lapponicus*, d: *H. bottnicus*, e: *Sericomyia arctica* holotype right side, f: do. dorsal view, g: do. left side, i: tip of hypandrium, ventral view. h: *S. jakutica*, epandrium dorsal view. j: hypandrium, ventral view.



Figure 5

- a) *Sericomyia silentis*, male.
- b) *Bulboscrobia undulans* Gaunitz, holotype.

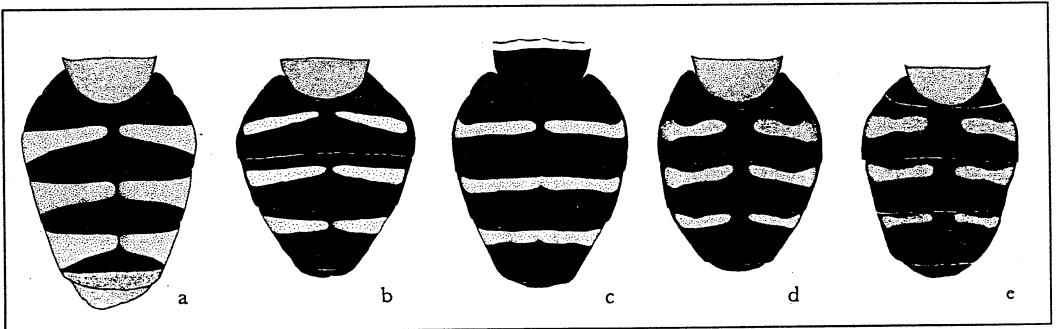
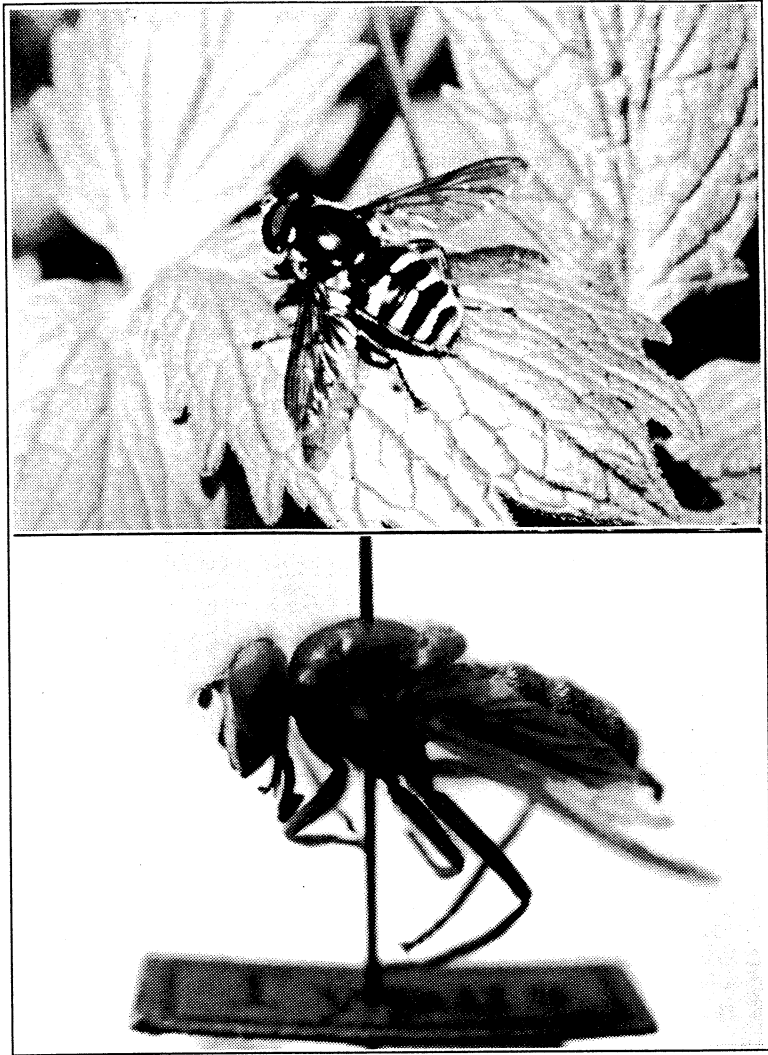


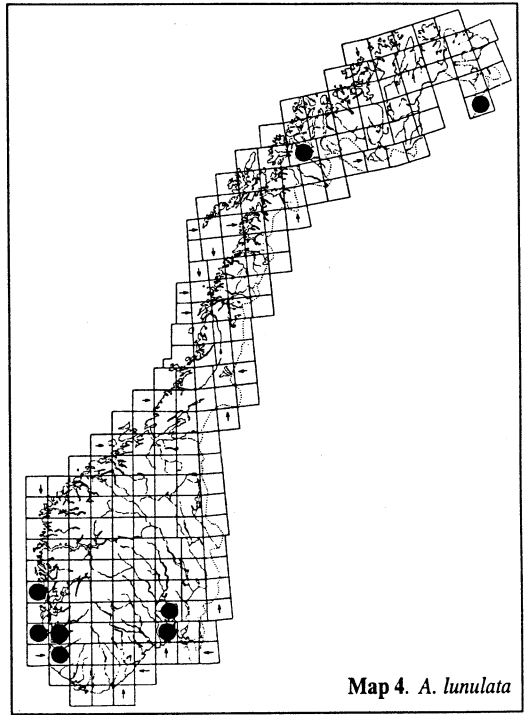
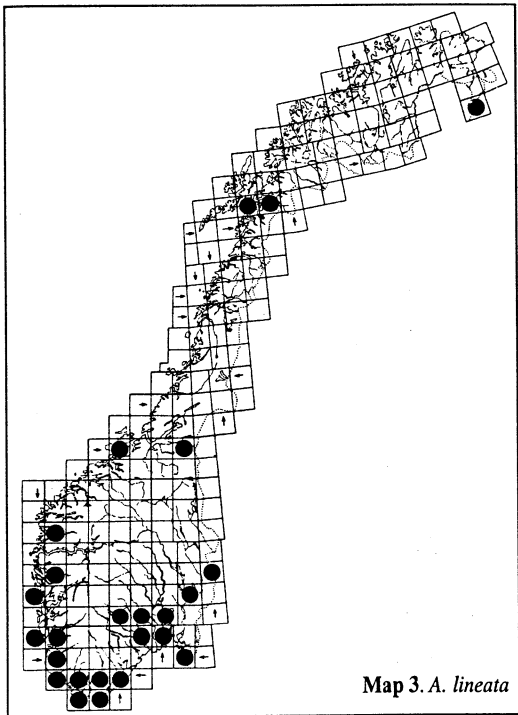
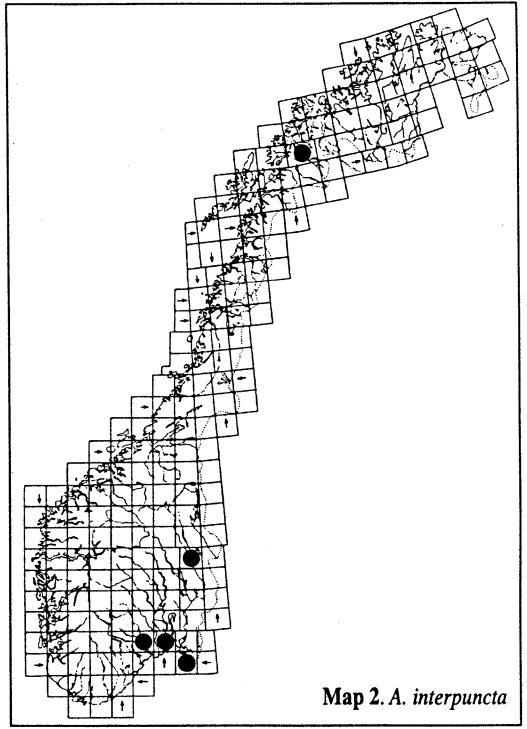
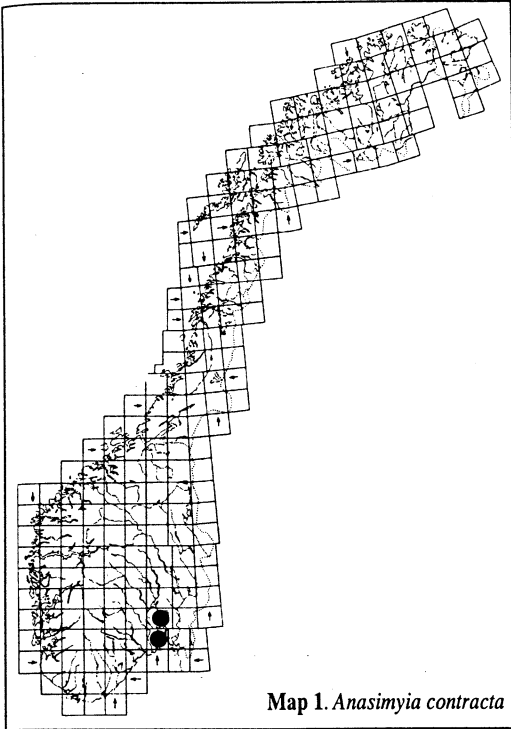
Figure 6  
*Sericomyia* male abdomens. a: *silentis*, b: *lappona*, c: *nigra*, d: *arctica*. e. *jakutica*.

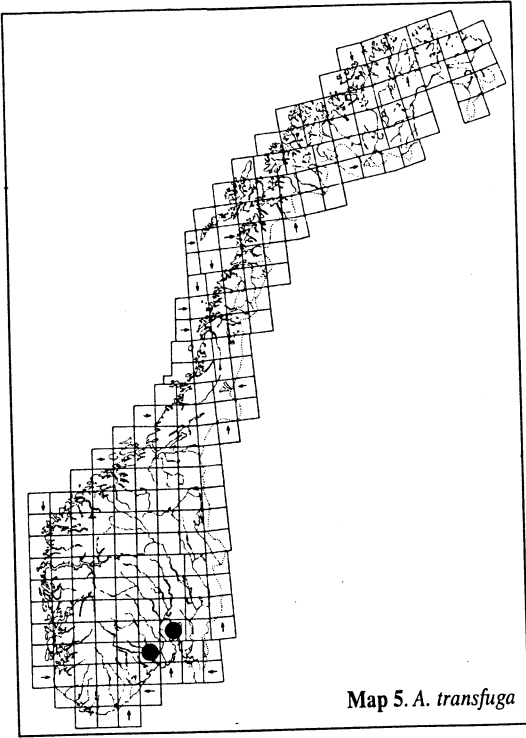
**Table 1.** Key to Scandinavian species of genus *Helophilus* Meigen. Figures 1, 2, 3, 4a-d.

1. Median stripe of face yellowish .....	<i>trivittatus</i> (Fabricius)	2
- Median stripe of face black .....		2
2. Hind tibiae yellow on basal two-thirds .....	<i>pendulus</i> (Linnaeus)	3
- Hind tibiae yellow on about basal third only .....		3
3. Hind margin of the tergites narrowly yellow .....	<i>hybridus</i> (Loew)	4
- Hind margin of the tergites black .....		4
4. Tergite 3 without yellow side spots. Tergite 2-4 (2-5 in the female) with transversal narrow, undulating greyish bands of dusting, sometimes narrowly separated in the middle (In Fennoscandinavia only known from Sweden). Figs. 3f-i, 4d.....	<i>bottnicus</i> Wahlberg	5
- Tergite 3 with yellow side spots .....		5
5. Fore tarsi yellow-brown, at least on the basal joints .....	<i>affinis</i> Wahlberg	6
- Fore tarsi black .....		6
6. Yellow spots on tergite 2 normally each with a whitish dust spot in medial corners. Tergite 3-4 (in female also tergite 5) with strong, greyish spots or lunulae. Hairs on disc of scutellum black .....	<i>groenlandicus</i> (Fabricius)	
- Yellow spots on tergite 2 without a whitish dust spot in medial corners. Tergite 3 and 4 black, sometimes with two more or less obvious, oblique dust spots. Distal half of mesonotum and disc of scutellum normally purely yellowhaired .....	<i>lapponicus</i> Wahlberg	

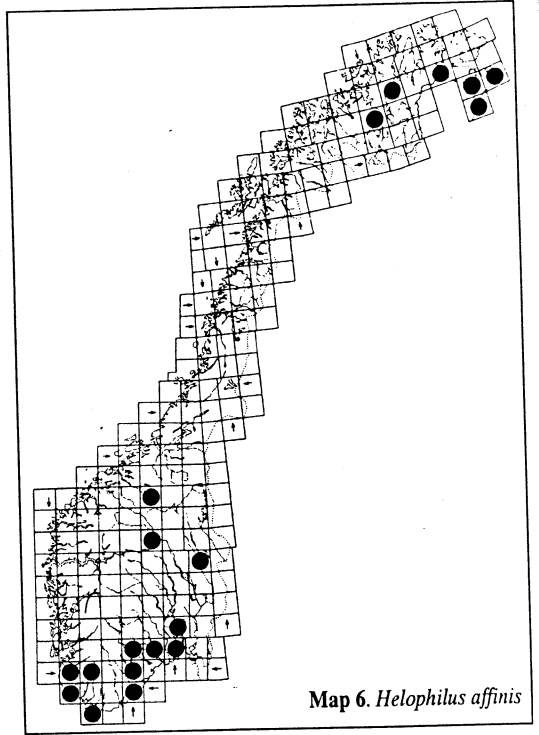
**Table 2.** Key to Scandinavian species of genus *Sericomyia* Meigen. Figures 4e-j, 5, 6.

1. Tip of abdomen and hind margin of tergite 4 yellowish orange. The abdominal bands clearly yellow and rather broad. Those on tergite 3-4 at lateral margins occupying about half length of the tergite. The male with a short process on hind trochanters.....	<i>silentis</i> (Harris)	
- Tip of abdomen and hind margin of tergite 4 blackish. The abdominal bands whitish and rather narrow. The males without a short process on hind trochanters.....		2
2. Halteres blackish, scutellum reddish-brown. Hind metatarsi laterally mainly yellow-haired. The abdominal bands very narrowly triangular. The hairs on medioapical part of tergite 4 yellow.....	<i>lappona</i> (L.)	3
- Halteres brown, hind metatarsi laterally mainly black-haired. The hairs on medioapical parts of tergite 4 mainly black .....		3
3. Scutellum black. Hind femorae of male orange yellow. The female also with a band on tergite 5 .....	<i>nigra</i> (Portschinsky)	
- Scutellum dark reddish-brown. Hind femorae (except extreme tip) of male mainly blackish-brown. The abdominal bands slightly lunulate and widening more or less abruptly near lateral margins of the tergites .....		4
4. Males: Tip of hypandrium rounded (Fig. 4i) .....	<i>arctica</i> Schirmer	
- Tip of hypandrium more pointed and hooked (Fig. 4j) .....	<i>jakutica</i> (Stackelberg)	
Females: .....	<i>arctica</i> Schirmer and <i>jakutica</i> (Stackelberg)	

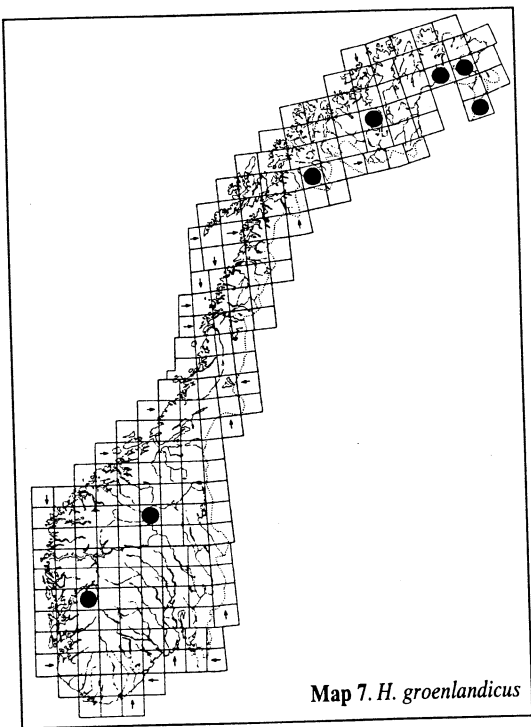




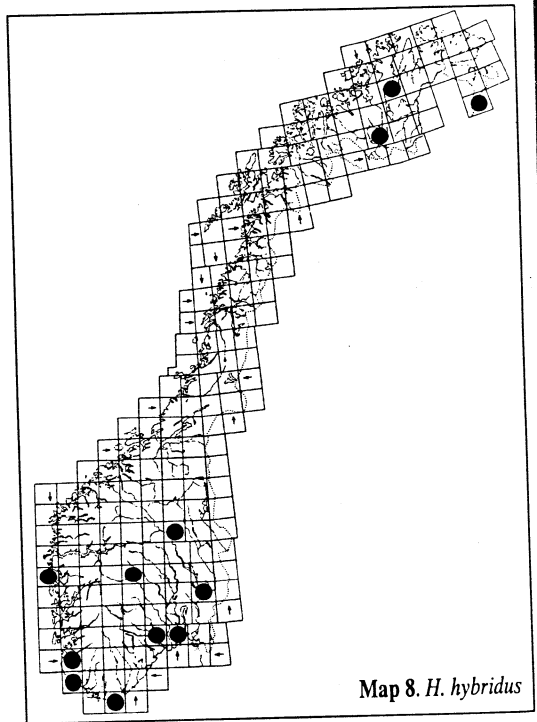
Map 5. *A. transfuga*



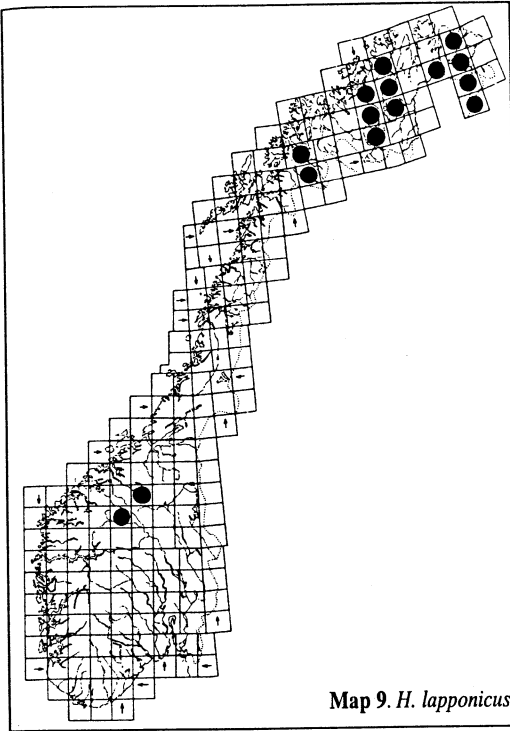
Map 6. *Helophilus affinis*



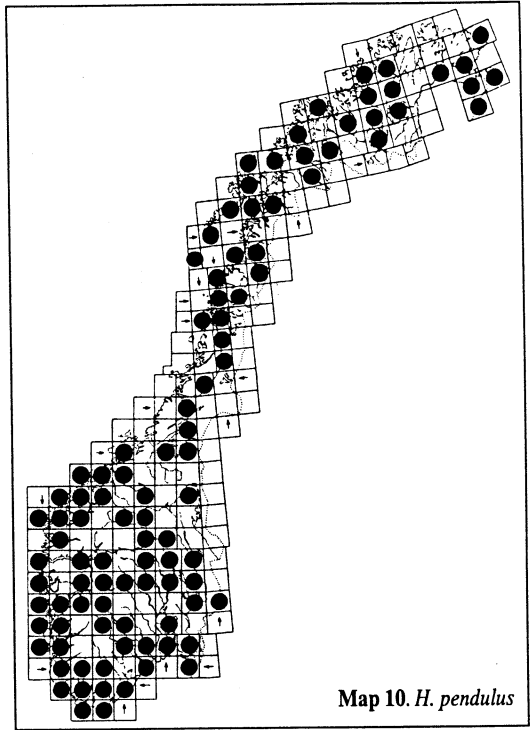
Map 7. *H. groenlandicus*



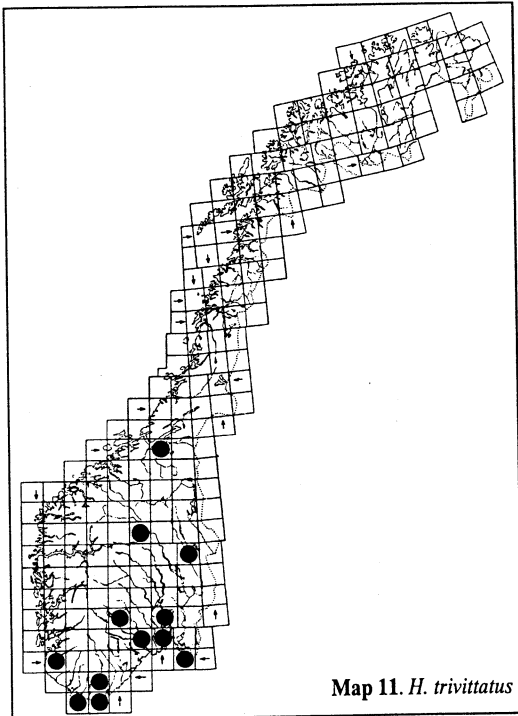
Map 8. *H. hybridus*



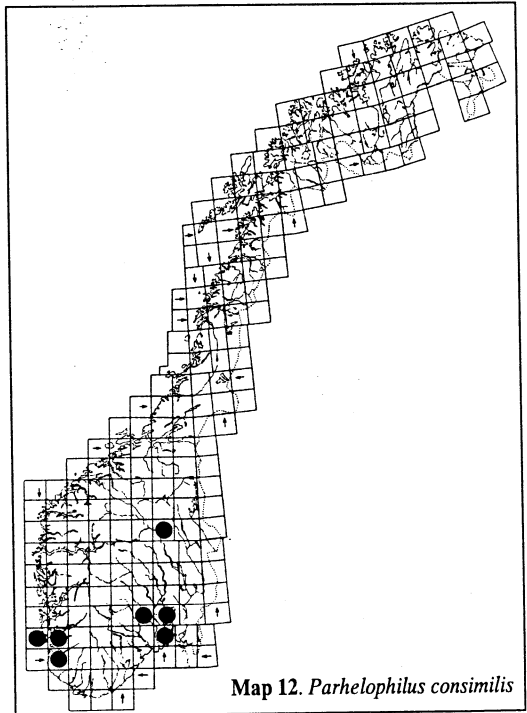
Map 9. *H. lapponicus*



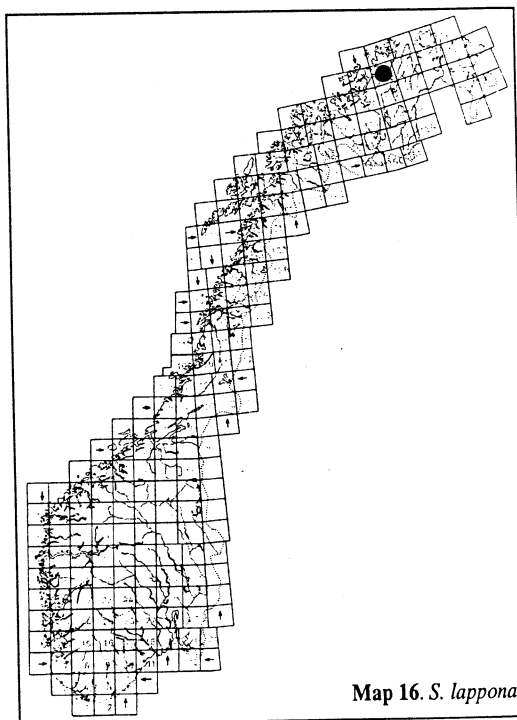
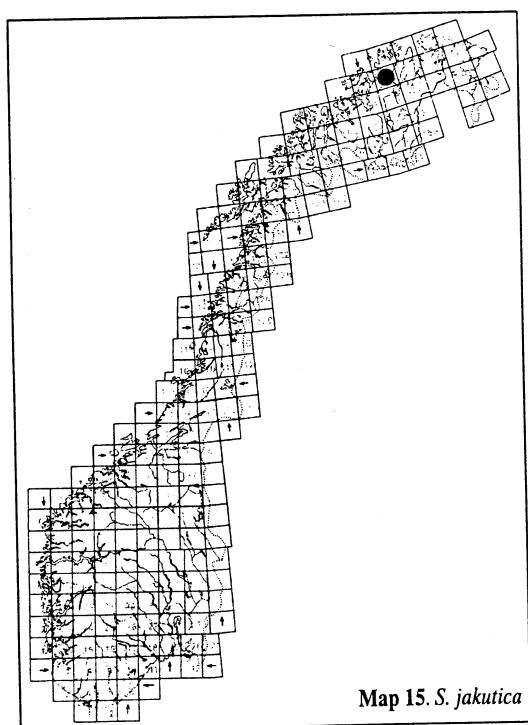
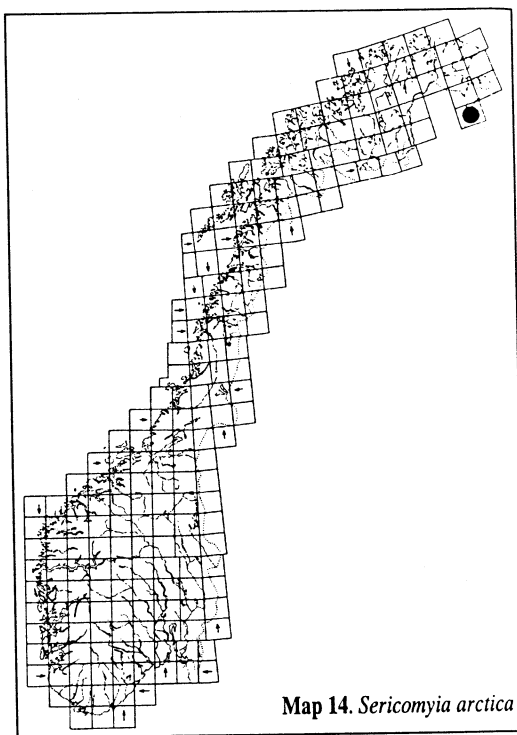
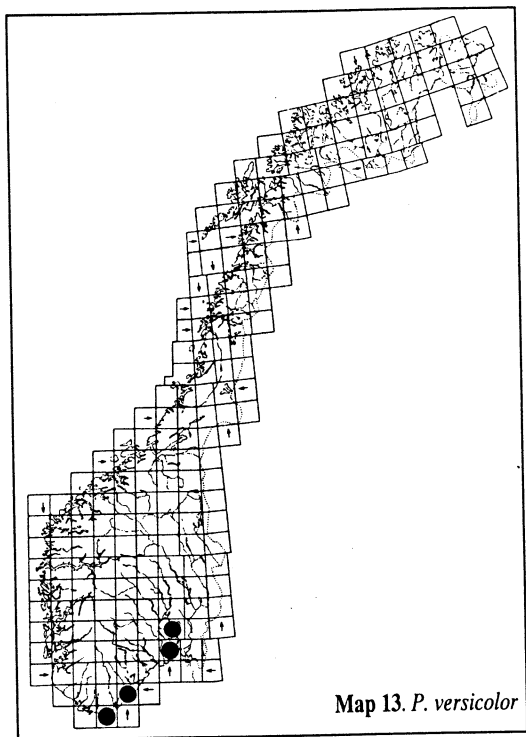
Map 10. *H. pendulus*

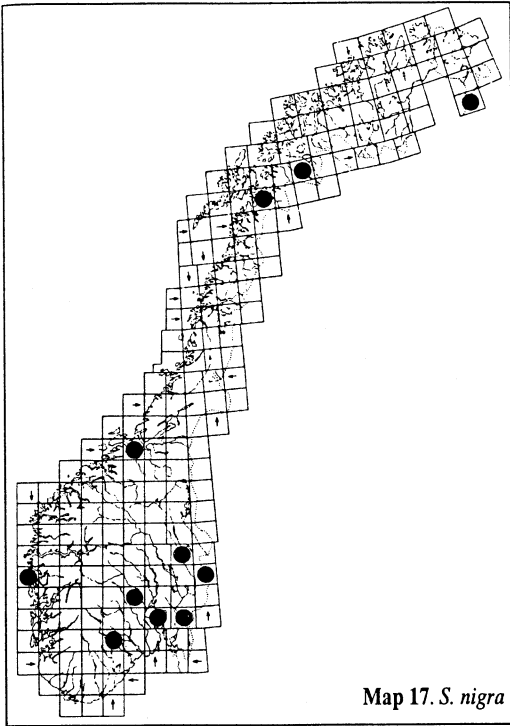
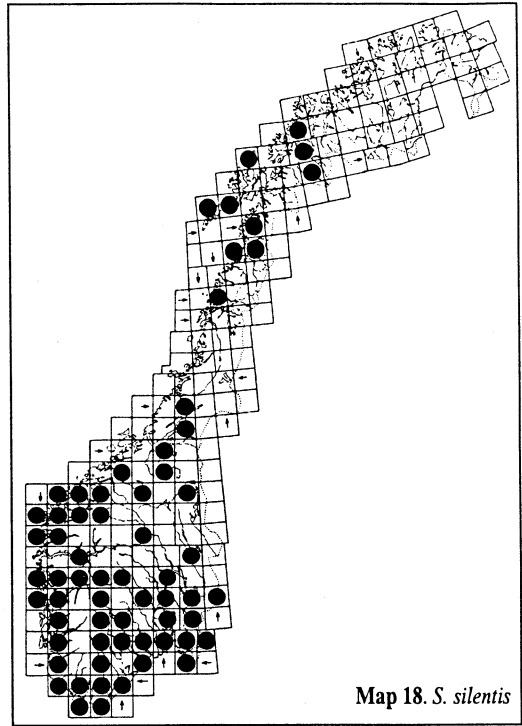


Map 11. *H. trivittatus*



Map 12. *Parhelophilus consimilis*



Map 17. *S. nigra*Map 18. *S. silentis*

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## SAMMENDRAG

**Blomsterslektene *Anasimyia* Schiner, *Helophilus* Meigen, *Parhelophilus* Girschner og *Sericomyia* Meigen i Norge (Diptera, Syrphidae)**

Artene av slektene *Anasimyia*, *Helophilus* og *Parhelophilus* er mellomstore til store blomsterfluer med grågule, langsgående striper på oversiden av brystet, og ellers med gule, grågule og svarte tegninger på bakkroppen. *Sericomyia*-artene er store og kraftige, svarte med gule eller hvite skråstriper på bakkroppen.

I Norge er det funnet fem *Anasimyia*-, seks *Helophilus*-, to *Parhelophilus*- og fem *Sericomyia*-arter. *Sericomyia jakutica* (Stackelberg), tidligere bare kjent fra Øst-Sibir, er nå også funnet i Finnmark og Nord-Sverige. *Helophilus borealis* Siebke, 1864 er synonym med *H. affinis* Wahlberg, 1844.

Egg og larver av ovennevnte slekter utvikler seg i stillestående vann med organisk avfall. Noen av *Anasimyia*- og *Parhelophilus*-artene ser ut til å forekomme bare

ved næringsrike (eutrofe) vann, og har i Norge en begrenset forekomst på Østlandet. Med tanke på drenering og én stadig gjenvekst i slik våtmark, må disse artenes eksistens ses på som truet i vår fauna.

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