

Notes on some Empidoidea (Diptera, Brachycera) new to the Norwegian fauna

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Thirteen species of Empidoidea (viz. Hybotidae, Empididae and Dolichopodidae) are reported from Norway for the first time.

Keywords: Diptera, Empidoidea, Hybotidae, Empididae, Dolichopodidae, new records, Norway.

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Introduction

In the course of preparations for the 2010 Norwegian Red List, the author has been able to positively confirm the occurrence of 538 species of Empidoidea (viz. Empididae (183), Atelestidae (1), Hybotidae (147) and Dolichopodidae (207)) in Norway. In this survey, the author has adopted the view of Sinclair & Cumming (2006), in that the former family Microphoridae should be included as a subfamily (Microphorinae) within the Dolichopodidae.

In addition to these confirmed species, there are further 8 Empididae reported from Norway in older literature. They are *Chelifera frigelli* (Zetterstedt, [1838]), *C. monostigma* (Meigen, 1822), *Hilara tarsata* Siebke, 1864, *Rhamphomyia alpina* (Zetterstedt, [1838]), *R. barbata* (Macquart 1823), all reported by Siebke (1877); *Chelifera stigmatica* (Schiner, 1862) mentioned by Frey (1914), *Rhamphomyia tibialis* Meigen, 1822, reported by Ringdahl (1954), while Engel (1940) mentions one further Empididae as Norwegian in Die Fliegen der palaearktischen Region, namely *Wiedemannia fallaciosa* (Loew, 1873) which may, in fact refer to *W. simplex* (Loew, 1862).

There are also 11 additional Norwegian Dolichopodidae which have been referred to in past literature, namely *Dolichopus campestris* Meigen, 1824, *D. mannerheimi* Zetterstedt, 1838, *D. nigripes* Fallén, 1823, *D. zetterstedti* Stenhammar, 1852, *Medetera plumbella* Meigen, 1824, *Neurigona erichsoni* (Zetterstedt, 1843), *Rhaphium confine* Zetterstedt, 1843, *R. fascipes* (Meigen, 1824), all reported by Siebke (1877); *Lamprochomus bifasciatus* Macquart, 1827 is mentioned from Norway by Zetterstedt (1843), *Rhaphium laticorne* (Fallén, 1823) is reported by both Siebke (1877) and Ringdahl (1954) while *Peodes forcipatus* Loew, 1857 is, probably erroneously, listed from Norway in the Catalogue of Palaearctic Diptera (Negrobov 1991). While at least some of these additional 20 species mentioned here are highly probable to occur in the Norwegian fauna, none of their records have been revised, and should therefore be included in the Norwegian list only with the utmost care.

The Norwegian Empidoidea also include at least four species that await description or where their identities have not as yet been properly resolved, including one species of *Drapetis* (Hybotidae) and three species of *Medetera* (Dolichopodidae). All included, we are therefore getting close to the

number of species (600) estimated as Norwegian by Ottesen (1993). Among the 538 Empidoidea that are herewith confirmed as Norwegian, there are thirteen species that do not seem to have been reported from our country previously, and their data are consequently given below. Two of these, *Drapetis completa* Kovalev, 1972 (Hybotidae) and *Clinocera barbatula* Mik, 1880 (Empididae) are also new to Scandinavia.

Most of the material is deposited in the author's collection, except for few specimens that are deposited at the Natural History Museum, University of Oslo (NHMO), the Museum of Zoology, Bergen (ZMB) or at Norwegian Forest and Landscape Institute at Ås (NFLI).

Systematic list

HYBOTIDAE

Drapetis assimilis (Fallén, 1815)

Records: BØ, Drammen: Underlia, EIS28, August 1992 (Malaise trap), 3♀ leg. L. O. Hansen; BV, Rollag: Vårviken, EIS35, July 1994 (Malaise trap), 2♂♂; Bråtåsen, EIS35, August 1994 (Malaise trap), 1♀ leg. L. O. Hansen and B. A. Sagvolden; Veggli, EIS35, 29 June 1995, 1♂; Rollag–Veggli, EIS35, 9 July 1995, 1♀; Kongsberg. Sansvær, EIS35, 26 July 1995, 1♂ leg. B. A. Sagvolden.

Notes: A mainly late summer species (Chvála, 1975), which is also demonstrated by most of the Norwegian records above. Rather a rare species everywhere in northern Europe.

Drapetis completa Kovalev, 1972

Records: AK, Asker: Bjørkås, EIS28, 2 July–24 August 1995, 3♂♂, 1♀ leg. L. O. Hansen & O. Hanssen; Oslo: Østensjøvannet, EIS28, August 1996, 1♂ leg. L. O. Hansen & M. Falck; Lørenskog: Husby, EIS29, 7 February–27 June 1991, 1♀ leg. B. Økland; Sørum: Lørenfallet, Egner, EIS37, July 1994, 1♂ leg. L. O. Hansen & O. Sørlibråten; HES, Ringsaker: Helgøya, Eikåsen, EIS54, June 1990, 1♀; July 1990, 4♂♂ det. A. Stark; August 1990, 1♂, 1♀ leg. A. Bruserud; BV, Rollag: Vårviken, EIS35, June 1994, 3♂♂; Bråtåsen July 1994, 5♂♂ leg. L.

O. Hansen and B. A. Sagvolden; BØ, Hurum: Tofteholmen, EIS19, 18 May–7 July 1991, 2♂♂; 31 July–1 September 1991, numerous ♂♂ & ♀♀ leg. L. O. Hansen; Drammen: Underlia, EIS28, July 1994, 2♂♂, 1♀ leg. L. O. Hansen; VE, Våle: Langøya, EIS19, 8 July–2 August 1991, 3♂♂; 2 August–1 September 1991, 1♂ leg. L. O. Hansen; TEY, Bamble: Langøya, EIS11, 6–31 July 1995, 1♂, 1♀ leg. L. O. Hansen & R. Mehl. All the above specimens were caught in Malaise traps.

Notes: As these records demonstrate, this species is not at all uncommon in the south-eastern districts of Norway. Although these are the first records from Fennoscandia, it may well have been confused with other *Drapetis* species by previous collectors, e.g. with the common *D. parilis* Collin, 1926, which it resembles. It seems to be an eurytopic species, as it has been caught both in coniferous and deciduous forests in this country, as well as in fields and similar low vegetation.

Drapetis exilis (Meigen, 1822)

Records: AK, Sørum: Lørenfallet, Egner EIS37, June 1994, 1♂; August 1994, 1♂ leg. L. O. Hansen & O. Sørlibråten; BØ, Røyken: Kinnartangen, EIS28, 6 July–4 August 1991, 2♂♂ leg. L. O. Hansen; VE, Våle: Langøya, EIS19, August–1 September 1991, 1♂, 1♀ leg. L. O. Hansen; TEY, Bamble: Langøya, EIS11, 6–31 July 1995, 1♂ leg. L. O. Hansen & R. Mehl; AAY, Lillesand: Furulia, EIS6, July 2004, 2♂♂ leg. G. Wiig (NHMO). All the above specimens were caught in Malaise traps.

Notes: Not uncommon in Denmark and in the southern parts of Fennoscandia. Consequently, it was not unexpected for this species also to occur in Norway.

Drapetis infitialis (Collin, 1961)

Records: AK, Asker: Nesøya, Storenga, EIS28, ultimo May–ultimo July 2003, 1♂ leg. L. O. Hansen; Oslo: Østensjøvannet, Oppsalskrenten, EIS28, August 1996, 4♂♂, 4♀♀ leg. L. O. Hansen & M. Falck; BV, Rollag: Bråtåsen, EIS35, July 1994, 56♂♂, 1♀ leg. L. O. Hansen & B. A. Sagvolden; BØ, Drammen: Underlia, EIS28, July 1994, 9♂♂, 17♀♀; August 1994, 3♂♂, 1♀ leg. L. O. Hansen; Hurum: Verket, EIS28, 6 June–8 July

1995, 3♂♂ leg. L. O. Hansen & O. Hanssen; RY, Karmøy: Midtstokke, EIS13, May 1995, 2♂♂, 1♀ leg. M.-H. Velde. All the above specimens were caught in Malaise traps.

Notes: A rather uncommon, but seemingly widespread species in the southern parts of Norway.

Platypalpus hackmani CHVÁLA, 1972

Record: FV, Alta: Elvestrand, EIS173, 4 July–18 Aug. 1997 (Malaise trap), 1♂ leg. H. Rinden.

Notes: Previously known only from the northernmost parts of Europe (Finnish Lapland, the Kola peninsula), with an exceptional record from Skåne in the south of Sweden (Chvála 1989).

Platypalpus pallidicornis (Collin, 1926)

Records: AK, Oslo: Østensjøvannet, EIS28, July 1996, 39♂♂, 32♀♀ leg. M. Falck; Østensjøvannet, Oppsalskrenten, EIS28, August 1996, 1♀ leg. M. Falck & L. O. Hansen; Bærum: Oksenøya, Storøykilen, EIS28, July–August 2002, 1♂, 1♀ leg. L. O. Hansen; Sørum: Lørenfallet, Egner, EIS37, July 1994, 3♂♂, 3♀♀ leg. L. O. Hansen & O. Sørlibråten; BØ, Nedre Eiker: Mjøndalen, Hagatjern, Ryggsetra, EIS28, July 1994, 1♀ leg. Y. Berg & L. O. Hansen; Hole: Røysehalvøya, Søhol, EIS36, 23 July–4 September 1998, 1♀ leg. L. O. Hansen. All the above specimens were caught in Malaise traps.

Note: An abundant species in Central Europe, and also rather common in Denmark and southern Fennoscandia (Chvála 1975).

Platypalpus scandinavicus Chvála, 1972

Records: AK, Rælingen: Tappenberg, EIS29, 9 May–29 August 1996 (emergence trap at root hole of windfelled spruce), 1♀ leg. B. Økland (NLFI); HES, Ringsaker: Helgøya, Eikåsen, EIS45, August 1990, 2♂♂, 9♀♀; September 1990, 1♀ leg. A. Bruserud (Malaise trap); BV, Rollag: Tråen saga, EIS35, September 1994 (Malaise trap), 1♀ leg. B. Sagvolden; Ål: Venadokken, EIS43, 18 June–18 July 2000 (Malaise trap), 2♂♂, 2♀♀ leg. J. Skartveit & M. Fremmesvik (ZMB); BØ, Kongsberg: Meheia, Øksnevatt, EIS27, 15–18 July 1999 (Malaise trap), 1♀ leg. T. Jonassen; Drammen: Underlia, EIS28, August 1995 (Malaise

trap), 1♀ leg. L. O. Hansen; Hole: Røysehalvøya, Søhol, EIS36, 14 June–23 July 1998 (Malaise trap), 1♂, 1♀ leg. L. O. Hansen; TEI, Kviteseid: Øvre Landsverk, EIS17, 15 July–15 September 1999 (Malaise trap), 2♂♂, 3♀♀ leg. L. O. Hansen & D. Wisland; MRI, Norddal: Fjøra, EIS77, 18 July–11 September 1993 (Malaise trap), 1♀ leg. O. Hanssen; NTI, Høylandet: Tverråa, EIS107, 10 September 1987, 1♀ leg. J. O. Solem; TRY, Tromsø: Ramfjordnes, EIS162, July 1991, 1♀; August 1991, 1♂ leg. H. Larsen (Malaise trap); FV, Alta, Mattisdalen (S), EIS165, 4 August–26 August 1996, 2♂♂, 1♀; Kåfjord, Møllenes, EIS173, 2 July–8 August 1993, 2♂♂, 1♀; Eiby, Vasetmoen, EIS173, 6 July–8 August 1993, 18♂♂, 23♀♀ leg. L. O. Hansen & H. Rinden (Malaise trap).

Note: Obviously a widespread species in Norway. I cannot, however, see that it has been reported from this country previously.

Platypalpus stabilis (Collin, 1961)

Records: AK, Bærum: Oksenøya, Storøykilen, EIS28, July–August 2002, 1♂, 2♀♀ leg. L. O. Hansen; BØ, Hurum: Østnestangen, EIS19, 8 July–20 August 1995, 4♀♀ leg. L. O. Hansen; Verksøya, EIS19, 6 July–19 August 1995, 3♀♀ leg. L. O. Hansen & O. Hanssen; VE, Våle: Langøya, EIS19, 28 May–8 July 1991, 1♀; 8 July–2 August 1991, 1♂, 4♀♀; 2 August–1 September 1991, 5♀♀; 1 September–26 October 1991, 1♀; TEY, Bamble: Langøya, EIS11, 6–31 July 1995, 1♂, 2♀♀ leg. L. O. Hansen & R. Mehl. All the above specimens were caught in Malaise traps.

Note: A northern species in distribution (Chvála 1989), therefore its occurrence here in Norway was anticipated.

Platypalpus subbrevis (Frey, 1913)

Record: AK, Bærum: Ostøya, EIS28, 1–24 July 1984 (Malaise trap), 1♀ leg. F. Midtgaard.

Notes: A very rare species so far known only from the female sex. This seems to be the first record outside of its type locality in Finland.

Syndyas nigripes (Zetterstedt, 1842)

Record: VE, Horten: Adalstjernet SE, EIS19, 8 July–12 August 2003 (Malaise trap), 1♂ leg. E.

Rindal (NHMO).

Notes: An uncommon species in Scandinavia with only five records from Sweden (Chvála, 1983). More widespread along the Baltic coast down to Central Europe.

EMPIDIDAE

Clinocera (Kowarzia) barbatula Mik, 1880

Record: FV, Alta: Gargia, EIS165, 22 June–6 August 1996 (Malaise trap), 1♂ leg. L. O. Hansen & H. Rinden.

Notes: The fauna of the aquatic Empidoidea, viz. the subfamily Hemerodromiinae (Empididae) and the genus *Hydrophorus* (Dolichopodidae), has been very poorly investigated here in Norway. Nonetheless, it is somewhat remarkable to find this species this far north, as it is previously known only from continental Europe.

Empis (Xanthempis) trigramma Wiedemann, 1822

Records: Ø, Sarpsborg: Sandbakken, EIS20, 18 May 1998, 1♂; Skjeberg kirke, EIS20, 18 May 2003, 1♂, 1♀ leg. T. J. Olsen.

Notes: A species with a southern distribution in Scandinavia. Locally not uncommon, so its occurrence in the southern parts of Norway was not unexpected. Mainly captured in May (Chvála 1994), as is also demonstrated by these Norwegian records from Østfold. It may therefore have been overlooked by previous collectors due to a short flight period.

DOLICHOPODIDAE

Dolichopus tanythrix Loew, 1869

Record: Ø, Sarpsborg: Langmyr, EIS20, 28 June 2004, 1♂ leg. T. J. Olsen.

Note: An uncommon species with scattered records from southern Sweden and down towards continental Europe.

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