

Diptera from rich fens and other habitats in eastern part of Innlandet, southeastern Norway. VI. Hybotidae (Empidoidea)

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Records of 93 species of Hybotidae from Hedmark in eastern part of Innlandet County, southeastern Norway, are presented based partly on material collected in 2016 and 2017 during a survey of insects inhabiting rich fens in the region, partly on older material. *Platypalpus nonstriatus* (Strobl, 1901) and *Drapetis abrollensis* Michelsen & Grootaert 2019 are recorded from Norway for the first time. In addition, *Oedalea freyi* Chvála, 1983 is recorded for the first time from southern Norway. Of the remaining species 86 are recorded for the first time from southern and/or northern Hedmark. All together 58 species of Hybotidae were collected on the rich fens. Most of the material was collected in eight Malaise traps situated on different rich fens and collected continuously from early spring to late autumn 2016. A total of 2087 specimens of 54 species of Hybotidae were collected in these traps. *Platypalpus ecalceatus* (Zetterstedt, 1838) was the most abundant species constituting 19.3% of the material, *P. stigmatellus* (Zetterstedt, 1842) ranged second with 10.7%, and *Tachypeza nubila* (Meigen, 1803) third with 9.7% of the material. There were, however, large differences in the number of specimens and species collected in the different traps.

Key words: Rich-fens, Diptera, Empidoidea, Hybotidae, new records, Innlandet, Norway.

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Introduction

The Hybotidae are minute to medium sized (1.5–6.0 mm), usually dark flies. They have relatively large, dichoptic or holoptic eyes with an incision near the base of the antennae. The antennae are either short or with a large third segment and a long arista. Mouthparts are often long and directed downwards, but some genera have short mouthparts. The wings are usually clear, but in the genus *Tachydromia* Meigen, 1803 the wings have dark cross bands. The legs are long and slender and might be adapted to catching and holding prey (Oosterbroek 2006). The larva lives in the soil, in rotting wood, organic matter, dung etc. where they prey on small invertebrates. The adult prey on small insects and other arthropods, catching

the prey in flight or while walking or running about on the ground, tree trunks or leaves. A few species visit flowers and feed on nectar and pollen (Oosterbroek 2006).

In 2016 the project «Insects on rich fens in Hedmark, eastern Norway» was initiated aiming at increasing the knowledge of the insect fauna on rich fens in Norway (see Artsdatabanken 2016, Andersen & Hagenlund 2019). Rich fens are among our most vulnerable and threatened nature types. Five types of lowland rich fens are listed in the Norwegian Red List of Nature Types (Lindegaard & Henriksen 2011). These fens are rich in calcium and usually fed by ground water and a number of rare and red-listed plants grow on these fens. During the project insects were collected in nearly 100 localities (see Jonassen

& Andersen 2020). The insect fauna on rich fens were the main target, but insects were also collected in a number of other habitats to get a better understanding of the habitat preferences of the different species.

Hybotidae belongs in the superfamily Empidoidea (Sinclair & Cummins 2006, Wahlberg & Johanson 2018). Below we present a list of the Hybotidae species from Hedmark identified during the project; in two previous articles we have treated the families Dolichopodidae, Brachystomatidae and Empididae (Jonassen & Andersen 2020, 2021). The list is mainly based on the insects collected during the project, but we have also sorted through and identified older material from the area housed in the entomological collections at the Natural History Museum, University of Oslo and in the Department of Natural History, University Museum of Bergen.

Material and methods

The fieldwork was conducted during 2016 and 2017. The main part of the material was collected in Malaise traps, but adult Diptera were also collected with other methods like sweep nets, window traps, light traps and yellow pan traps. A total of 94 localities in Hedmark were visited during the project. Each locality is given a HeLoc number, which is used in the species list below. Although the fieldwork was focused on rich fens, a number of other habitats were also explored. In the species list rich fen localities are marked with an asterisk after the HeLoc number. All localities including HeLoc numbers are listed in Jonassen & Andersen (2020: Table 1).

The Malaise traps were situated on eight different rich fens in 2016 and were emptied bi-weekly beginning after the snow had melted in April–May and continuing until the winter started in late October. The fens are of different sizes and structure and a gradient from lowland fens to upland fens were strived for. Several of the fens are a mosaic of different nature types, with areas varying from comparatively poor to extremely rich. The fens may include both firm substrate and areas with fen carpet and mud bottom, and

some are to a various degree covered with shrubs and trees. In some of the fens there are springs and spring-brooks, others have streams or brooks running through, and some have pools or ponds of various sizes.

During the field work the material was preserved in 75–80% ethanol, then brought to the Department of Natural History, University of Bergen, and sorted to family level. The material from the project is mainly stored in 75–80% ethanol, but a few specimens are pinned. All species were identified by the senior author and is housed in the entomological collection at the Department of Natural History, University Museum of Bergen (ZMBN).

In addition, material collected in the eastern part of Innlandet county by Gudrun Bakkerud, Asle Bruserud, Lars Ove Hansen, Kjell Magne Olsen, Eirik Rindal, Karsten Sund, Geir E. Søli and Anders Thylén, and housed in the entomological collections at the University Museum of Bergen and the Natural History Museum, University of Oslo, were identified and is listed as «Additional material» in the species list. Much of the additional material is stored in the entomological collection at the Department of Natural History, University Museum of Bergen. The remaining additional material is in the Natural History Museum, University of Oslo (ZMO). A few specimens are also housed in Terje Jonassen's private collection.

The former counties Oppland and Hedmark were merged into Innlandet County on the 1 January 2020. None of the municipalities in Hedmark were, however, altered or merged and the municipality boundaries are still as before 2020. All fieldwork was performed in the eastern part of Innlandet, i.e. the former Hedmark County, and we have used the biogeographical regions southern Hedmark (HES) and northern Hedmark (HEN) following the «Strand-system» (Endrestøl 2021).

The Malaise trap localities

The different fens were selected using Naturbase (Miljødirektoratet 2017) which includes a thorough descriptions of the different fens.

HeLoc17*, Northern Hedmark (HEN), Åmot, Kildesaga, N61.178778° E11.402167°, 290 m a.s.l. (Malaise trap no. 1). Small (6.8 daa), extremely rich wood and scrub-covered lowland fen with firm substrate (<https://faktaark.naturbase.no/?id=BN00075142>).

HeLoc32*, Northern Hedmark (HEN), Stor-Elvdal, Nabbtjern, N61.378417° E11.191750°, 251 m a.s.l. (Malaise trap no. 2). Medium large (117 daa), intermediate to rich carpet / mud bottom lowland fen with interspersed flarks (<https://faktaark.naturbase.no/?id=BN00026540>).

HeLoc45*, Northern Hedmark (HEN), Rendalen, Jøgåsmyra, N61.774556° E11.593472°, 640 m a.s.l. (Malaise trap no. 3). Large (694 daa), rich to extremely rich fen with a mosaic of firm substrate and loose mats (<https://faktaark.naturbase.no/?id=BN00026324>).

HeLoc47*, Northern Hedmark (HEN), Rendalen, Sekserbua NE, N61.556056° E11.168556°, 520 m a.s.l. (Malaise trap no. 4). Medium large (64 daa), intermediate to rich wood and scrub-covered fen with firm substrate (<https://faktaark.naturbase.no/?id=BN00026412>).

HeLoc71*, Northern Hedmark (HEN), Engerdal, Ulvåkjølen–Sundsetra, N61.836556° E11.791250°, 660 m a.s.l. (Malaise trap no. 5). Large (2403 daa) fen complex with poor to rich fens. The Malaise trap was situated in one of the richest parts, with gently sloping terrain (<https://faktaark.naturbase.no/?id=BN00026842>).

HeLoc74*, Northern Hedmark (HEN), Engerdal, Åsen, N61.885861° E11.782833°, 700 m a.s.l. (Malaise trap no. 6). Small (18 daa), fragmented, extremely rich fen in upland area, close to a larger rich fen. At the sampling site the fen is gently sloping with a mix of scattered conifers and deciduous trees (see Løvhuskjølen: <https://faktaark.naturbase.no/?id=BN00026820>).

HeLoc75*, Northern Hedmark (HEN), Tolga, Bjørvollen, N62.387028° E11.118861°, 770 m a.s.l. (Malaise trap no. 7). Medium large (335 daa), intermediate to extremely rich fen in upland area. The fen is partly covered with mixed forest and has mostly firm substrate, in some places with exposed stones, but there are also smaller areas with fen carpet and mud bottom (<https://faktaark.naturbase.no/?id=BN00099251>).

HeLoc78*, Northern Hedmark (HEN), Tynset, Brydalskjølen, N62.255444° E10.907250°, 780 m a.s.l. (Malaise trap no. 8). Large (990 daa), intermediate to extremely rich fen complex in upland area. Mostly open fen with firm substrate, but also areas with fen carpet and some areas are covered with mixed forest (<https://faktaark.naturbase.no/?id=BN00100041>).

Results

The species

Allanthalia pallida (Zetterstedt, 1838)

Material. HeLoc17*, 26 May–9 June 2016, 1♀, Malaise trap; HeLoc74*, 23 June–11 July 2016, 1♀, Malaise trap.

Remarks. Recorded for the first time from northern Hedmark (HEN).

Bicellaria austriaca Tuomikoski, 1955

Material. HeLoc01, 20 July 2017, 6♂♂9♀♀, sweep net; HeLoc03, 23 July 2017, 4♂♂3♀♀, sweep net; HeLoc04, 22 July 2017, 8♂♂15♀♀, sweep net; HeLoc05, 23 July 2017, 1♂, sweep net; HeLoc07, 22 July 2017, 1♂, sweep net; HeLoc08, 22 July 2017, 7♂♂7♀♀, sweep net; HeLoc11, 21 July 2017, 1♂3♀♀, sweep net; HeLoc12, 21 July 2017, 11♂♂19♀♀, sweep net; HeLoc13, 21 July 2017, 6♂♂4♀♀, sweep net / light trap; HeLoc17*, 23 June–11 July 2016, 1♂1♀, Malaise trap; HeLoc18, 21 July 2017, 1♂, sweep net; HeLoc22, 21 July 2017, 5♀♀, sweep net; HeLoc29, 24 July 2017, 1♀, sweep net; HeLoc34, 21 June–20 July 2017, 3♂♂1♀, light trap; HeLoc36*, 29 July 2017, 2♂♂5♀♀, sweep net; HeLoc37*, 27 July 2016, 2♂♂6♀♀, sweep net; HeLoc47*, 23 June–11 July 2016, 13♂♂4♀♀; 11–21 July 2016, 22♂♂39♀♀; 21 July–4 August 2016, 8♂♂14♀♀; 4–17 August 2016, 2♂♂2♀♀, Malaise trap; HeLoc51, 18 August 2016, 1♀, sweep net; HeLoc57, 15 August 2016, 5♂♂1♀, sweep net; HeLoc58, 23–25 July 2016, 2♂♂4♀♀, sweep net; HeLoc59, 24 July 2017, 2♀♀, light trap; HeLoc62, 16 August 2016, 3♀♀, sweep net; HeLoc64*, 28 July 2016, 4♂♂6♀♀, sweep net; HeLoc65, 16 August 2016, 1♀, sweep net;

HeLoc66*, 16–17 August 2016, 2♂♂5♀♀, sweep net; HeLoc69, 16 August 2016, 3♀♀, sweep net; HeLoc70*, 25 July 2016, 17♂♂10♀♀; 16 August 2016, 1♂9♀♀, sweep net; HeLoc71*, 4–17 August 2016, 1♂; 17 August–2 September 2016, 1♀, Malaise trap; HeLoc74*, 21 July–4 August 2016, 1♂3♀♀; 4–17 August 2016, 2♂♂7♀♀; 17 August–2 September 2016, 4♂♂2♀♀; 2–16 September 2016, 1♂1♀, Malaise trap; HeLoc78*, 21 July–4 August 2016, 2♂♂1♀; 4–17 August 2016, 1♀; 17 August–2 September 2016, 1♀, Malaise trap; HeLoc91, 24–25 July 2017, 1♂, yellow pan trap.

Additional material. HES, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 22 June–10 July 2003, 2♂♂1♀, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO); Dragonmoen, N60.19641° E12.36511°, 196 m a.s.l., 22 June–9 July 2005, 1♂1♀, Malaise trap, leg. K. Sund (ZMO); Fjørsjøen, N60.176827° E12.435088°, 225 m a.s.l., 6 June–2 July 2015, 6♂♂1♀, Malaise trap, leg. K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 22 April–14 June 2004, 1♂; 14 June–8 August, 11♂♂9♀♀, Malaise trap, leg. K. Sund (ZMO). Våler: Nordre Bølsjøen, Gjerdåskoia, N60.85139° E12.10317°, 396 m a.s.l., 7 July–6 August 2009, 3♂♂7♀♀; 6 August–28 October 2009, 1♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO); Nordre Bølsjøen, Kaskonbekken, N60.85639° E12.08927°, 390 m a.s.l., 7 July–6 August 2009, 1♂1♀; 6 August–28 October 2009, 1♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO). HEN, Åmot: Deifjellia, N61.2843° E11.505°, 515 m a.s.l., 5 May–6 July 2018, 1♂, Malaise trap, leg. K.M. Olsen.

Remarks. Recorded for the first time from northern Hedmark (HEN).

Bicellaria intermedia Lundbeck, 1910

Material. HeLoc04, 22 July 2017, 6♂♂7♀♀, sweep net; HeLoc07, 22 July 2017, 1♀, sweep net; HeLoc10, 21 July 2017, 2♀♀, sweep net; HeLoc17*, 23 June–11 July 2016, 1♀; 11–21 July 2016, 2♂♂2♀♀; 21 July–4 August 2016, 4♂♂4♀♀; 4–17 August 2016, 4♂♂5♀♀; 17 August–2 September 2016, 1♀, Malaise trap; HeLoc25, 20 August–16 September 2016, 1♀,

light trap; HeLoc32*, 11–21 July 2016, 1♂2♀♀; 21 July–4 August 2016, 1♂4♀♀; 4–17 August 2016, 4♀♀, Malaise trap; HeLoc34, 20 July–6 August 2017, 2♂♂2♀♀; 6 August–10 September 2017, 3♂♂4♀♀, light trap; HeLoc37*, 27 July 2016, 1♂4♀♀, sweep net; HeLoc45*, 2–16 September 2016, 1♀; 16–29 September 2016, 1♀, Malaise trap; HeLoc47*, 11–21 July 2016, 2♂♂4♀♀; 21 July–4 August 2016, 8♂♂13♀♀; 4–17 August 2016, 1♂4♀♀; 16–29 September 2016, 1♀; 29 September–13 October 2016, 1♀, Malaise trap; HeLoc59, 24 July 2017, 1♂, light trap; HeLoc70*, 16 August 2016, 3♀♀, sweep net; HeLoc74*, 4–17 August 2016, 1♀; 16–29 September 2016, 1♀, Malaise trap.

Additional material. HES, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 22 June–10 July 2003, 3♀♀, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO); Dragonmoen, N60.19641° E12.36511°, 196 m a.s.l., 22 June–9 July 2005, 1♂, Malaise trap, leg. K. Sund (ZMO); Femoen, N60.2033° E12.3506°, 206 m a.s.l., 21 June–18 July 2006, 1♂1♀, Malaise trap, leg. K. Sund (ZMO); Fjørsjøen, N60.176827° E12.435088°, 225 m a.s.l., 6 June–2 July 2015, 2♂♂, Malaise trap, leg. K. Sund (ZMO); Viker, Vikeraa, N60.202567° E12.450709°, 276 m a.s.l., 29 June–12 August 2007, 4♂♂8♀♀, Malaise trap, leg. K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 14 June–8 August 2004, 4♀♀; 8 August–29 October 2004, 4♀♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–31 July 1990, 1♀, Malaise trap, leg. A. Bruserud. Våler: Nordre Bølsjøen, Gjerdåskoia, N60.85139° E12.10317°, 396 m a.s.l., 7 July–6 August 2009, 15♂♂16♀♀; 6 August–28 October 2009, 4♀♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO).

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

Bicellaria nigra (Meigen, 1824)

Material. HeLoc07, 28 June 2016, 1♀, sweep net; HeLoc17*, 26 May–9 June 2016, 1♀; 9–23 June 2016, 1♀; 23 June–11 July 2016, 3♂♂27♀♀, Malaise trap; HeLoc47*, 11–21 July 2016, 2♀♀, Malaise trap; HeLoc70*, 25 July 2016, 3♀♀,

sweep net; HeLoc71*, 21 July–4 August 2016, 2♀♀; 4–17 August 2016, 1♀, Malaise trap; HeLoc74*, 21 July–4 August 2016, 1♂, Malaise trap; HeLoc75*, 11–21 July 2016, 1♂2♀♀, Malaise trap; 16 July–19 September 2016, 1♂1♀, window trap.

Additional material. HES, Kongsvinger: Vikar, Vikaråa, N60.202567° E12.450709°, 276 m a.s.l., 26 May–29 June 2007, 3♂♂3♀♀, Malaise trap, leg. K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 8 August–29 October 2004, 1♂, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–31 July 1990, 1♀, Malaise trap, leg. A. Bruserd; Sandvoll, N60.779455° E10.787998°, 147 m a.s.l., 1–30 September 1993, 1♀, Malaise trap, leg. G. Bakkerud. Våler: Nordre Bølsjøen, Gjerdåskoia, N60.85139° E12.10317°, 396 m a.s.l., 7 July–6 August 2009, 7♂♂11♀♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO); Nordre Bølsjøen, Kaskonbekken, N60.85639° E12.08927°, 390 m a.s.l., 7 July–6 August 2009, 4♀♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO). HEN, Åmot: Deifjellia, N61.2843° E11.505°, 515 m a.s.l., 5 May–6 July 2018, 3♂♂1♀; 6 July–22 September 2018, 1♂, Malaise trap; N61.2838° E11.5016°, 395–470 m a.s.l., 6 July 2018, 1♀, sweep net, leg. K.M. Olsen.

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

Bicellaria pilosa Lundbeck, 1910

Material. HeLoc04, 22 July 2017, 1♀, sweep net; HeLoc07, 22 July 2017, 1♀, sweep net; HeLoc08, 22 July 2017, 1♀, sweep net; HeLoc34, 21 June–20 July 2017, 1♂, light trap; HeLoc42, 3 August 2017, 1♀, sweep net; HeLoc44, 17 September 2016, 1♀, sweep net; HeLoc45*, 17 August–2 September 2016, 1♀, Malaise trap; HeLoc47*, 23 June–11 July 2016, 1♂1♀; 11–21 July 2016, 2♀♀, Malaise trap; HeLoc64*, 28 July 2016, 1♀, sweep net; HeLoc69, 16 August 2016, 1♀, sweep net; HeLoc71*, 11–21 July 2016, 1♂; 21 July–4 August 2016, 2♂♂1♀; 4–17 August 2016, 1♂, Malaise trap; HeLoc75*, 11–21 July 2016, 1♂; 4–17 August 2016, 1♂1♀, Malaise trap; 16 July–19 September 2016, 1♂, window

trap; HeLoc78*, 11–21 July 2016, 1♂2♀♀; 4–17 August 2016, 2♀♀; 17 August–2 September 2016, 1♀; 2–16 September 2016, 1♀, Malaise trap; HeLoc87, 26 July 2017, 2♀♀, sweep net; HeLoc91, 24–25 July 2017, 2♂♂1♀, yellow pan trap.

Additional material. HES, Kongsvinger: Dragonmoen, N60.19641° E12.36511°, 196 m a.s.l., 22 June–9 July 2005, 4♀♀, Malaise trap, leg. K. Sund (ZMO); Femoen, N60.2033° E12.3506°, 206 m a.s.l., 21 June–18 July 2006, 2♀♀, Malaise trap, leg. K. Sund (ZMO). Våler: Nordre Bølsjøen, Gjerdåskoia, N60.85139° E12.10317°, 396 m a.s.l., 7 July–6 August 2009, 2♂♂6♀♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO).

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

Bicellaria simplicipes (Zetterstedt, 1842)

Material. HeLoc71*, 4–17 August 2016, 1♂, Malaise trap.

Remarks. Recorded for the first time from northern Hedmark (HEN).

Bicellaria spuria (Fallén, 1816)

Material. HeLoc43, 24 July 2017, 1♂, sweep net.

Additional material. HES, Ringsaker: Næroset, Nøsterbergvika, N60.981789° E10.773859°, 340 m a.s.l., 10 July 1991, 1♀, sweep net, leg. G. Bakkerud; Sandvoll, N60.779455° E10.787998°, 147 m a.s.l., 1 July 1991, 5♂♂2♀♀, sweep net, leg. G. Bakkerud.

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

Bicellaria subpilosa Collin, 1926

Material. HeLoc14*, 26 June 2016, 1♂, sweep net; HeLoc83*, 8 June 2016, 1♂; 27 June 2016, 2♂♂1♀, sweep net; HeLoc94*, 30 June 2016, 1♂, sweep net.

Remarks. Recorded for the first time from northern Hedmark (HEN).

Bicellaria sulcata (Zetterstedt, 1842)

Material. HeLoc07, 28 June 2016, 3♀♀, sweep net; HeLoc17*, 26 May–9 June 2016, 1♀; 9–23 Juni 2016, 1♂; 23 June–11 July 2016,

1♀, Malaise trap; HeLoc20*, 6 June 2016, 1♂, sweep net; HeLoc21*, 6 June 2016, 2♂♂1♀, sweep net; HeLoc38, 26 June 2016, 2♀♀, sweep net; HeLoc47*, 9–23 June 2016, 11♂♂21♀♀; 23 June–11 July 2016, 12♂♂28♀♀, Malaise trap; HeLoc71*, 23 June–11 July 2016, 1♂1♀, Malaise trap; HeLoc74*, 9–23 June 2016, 1♂; 23 June–11 July 2016, 3♂♂10♀♀, Malaise trap; HeLoc78*, 9–23 June 2016, 2♂♂11♀♀; 23 June–11 July 2016, 10♀♀; 11–21 July 2016, 2♀♀, Malaise trap; HeLoc85, 23 July 2017, 1♂, sweep net; HeLoc90*, 30 June 2016, 1♂, sweep net; HeLoc94*, 30 June 2016, 1♂9♀♀, sweep net.

Additional material. HES, Kongsvinger: Vikar, Vikaråa, N60.202567° E12.450709°, 276 m a.s.l., 26 May–29 June 2007, 3♂♂1♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Sandvoll, N60.779455° E10.787998°, 147 m a.s.l., 23 May 1992, 1♀, sweep net, leg. G. Bakkerud.

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

Bicellaria vana Collin, 1926

Additional material. HES, Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–31 August 1990, 1♂, Malaise trap, leg. A. Bruserud; Næroset, Nøsterbergvika, N60.981789° E10.773859°, 340 m a.s.l., 10 July 1991, 4♀♀, sweep net, leg. G. Bakkerud; Sandvoll, N60.779455° E10.787998°, 147 m a.s.l., 21–31 May 1993, 1♂, Malaise trap; 10 July 1991, 1♂1♀, sweep net, leg. G. Bakkerud.

Remarks. Recorded for the first time from southern Hedmark (HES).

Crossopalpus humilis (Frey, 1913)

Material. HeLoc45*, 24 June–11 July 2016, 1♀, Malaise trap.

Additional material. HES, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 22 June–10 July 2003, 1♂, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO).

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

Crossopalpus nigritellus (Zetterstedt, 1842)

Additional material. HES, Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°,

285 m a.s.l., 1–31 July 1990, 1♀; 1–31 August 1990, 1♂2♀♀, Malaise trap, leg. A. Bruserud.

Remarks. Recorded for the first time from southern Hedmark (HES).

Drapetis abrollensis Michelsen & Grootaert, 2019

Material. HeLoc32*, 9 June–23 June 2016, 5♂♂, Malaise trap.

Additional material. HES, Kongsvinger: Femoen, N60.2033° E12.3506°, 206 m a.s.l., 21 June–18 July 2006, 3♂♂, Malaise trap, leg. K. Sund (ZMO); Fjørsjøen, N60.176827° E12.435088°, 225 m a.s.l., 2 July–3 August 2015, 1♂, Malaise trap, leg. K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 14 June–8 August 2004, 3♂♂, Malaise trap, leg. K. Sund (ZMO).

Remarks. New to Norway. The species has been known to occur in Norway for a while, but it was not until Michelsen and Grootaert (2019) described it from a specimen from Skåne, Sweden, that its true identity was resolved. It has since been reported from all over Sweden (Grootaert & Hellqvist 2020). In Norway it has previously been collected at Marker (Ø), Oslo and Asker (AK) and at Rollag (BV) but has never been published.

Drapetis arcuata Loew, 1859

Material. HeLoc17*, 11–21 July 2016, 1♂, Malaise trap.

Additional material. HES, Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–31 July 1990, 2♂♂, Malaise trap, leg. A. Bruserud.

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

Drapetis completa Kovalev, 1972

Material. HeLoc32*, 11–21 July 2016, 1♂, Malaise trap.

Additional material. HES, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 10 July–10 August 2003, 2♂♂, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO); Femoen, N60.2033° E12.3506°, 206 m a.s.l., 21 June–18 July 2006, 12♂♂, Malaise trap, leg. K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 14 June–8 August 2004, 15♂♂; 8

August–29 October 2004, 2♂♂8♀♀, Malaise trap, leg. K. Sund (ZMO).

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

***Drapetis ephippiata* (Fallén, 1815)**

Additional material. HES, Kongsvinger: Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 14 June–8 August 2004, 3♂♂3♀♀; 8 August–29 October 2004, 1♂, Malaise trap, leg. K. Sund (ZMO). Eidskog: Magnor motorcrossbane, N59.9535° E12.1754°, 135 m a.s.l., 4 June–26 July 2018, 1♀, Malaise trap, leg. K.M. Olsen & A. Thylén.

Remarks. Recorded for the first time from southern Hedmark (HES).

***Drapetis infitialis* Collin, 1961**

Material. HeLoc32*, 23 June – 11 July 2016, 6♂♂1♀, Malaise trap; HeLoc45*, 21 July–4 August 2016, 1♂, Malaise trap.

Additional material. HES, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 10 July–10 August 2003, 1♂, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO); Dragonmoen, N60.19641° E12.36511°, 196 m a.s.l., 22 June–9 July 2005, 1♂, Malaise trap, leg. K. Sund (ZMO); Femoen, N60.2033° E12.3506°, 206 m a.s.l., 21 June–18 July 2006, 15♂♂, Malaise trap, leg. K. Sund (ZMO); Fjørsjøen, N60.176827° E12.435088°, 225 m a.s.l., 2 July–3 August 2015, 9♂♂, Malaise trap, leg. K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 14 June–8 August 2004, 1♂, Malaise trap, leg. K. Sund (ZMO).

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

***Drapetis parilis* Collin, 1926**

Additional material. HES, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 22 June–10 July 2003, 3♂♂, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO); Dragonmoen, N60.19641° E12.36511°, 196 m a.s.l., 22 June–9 July 2005, 2♂♂, Malaise trap, leg. K. Sund (ZMO); Femoen, N60.2033° E12.3506°, 206 m a.s.l., 21 June–18 July 2006, 5♂♂1♀, Malaise trap, leg. K. Sund (ZMO); Fjørsjøen, N60.176827°

E12.435088°, 225 m a.s.l., 2 July–3 August 2015, 2♂♂16♀♀, Malaise trap, leg. K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 14 June–8 August 2004, 13♂♂; 8 August–29 October 2004, 1♂1♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–30 June 1990, 3♂♂5♀♀; 1–31 July 1990, 7♂♂3♀♀; 1–31 August 1990, 2♂♂2♀♀, Malaise trap, leg. A. Bruserud.

Remarks. Recorded for the first time from southern Hedmark (HES).

***Drapetis pusilla* Loew, 1859**

Additional material. HES, Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–30 June 1990, 6♂♂1♀; 1–31 August 1990, 4♂♂1♀, Malaise trap, leg. A. Bruserud.

Remarks. Recorded for the first time from southern Hedmark (HES).

***Drapetis simulans* Collin, 1961**

Additional material. HES, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 10 July–10 August 2003, 1♂, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO).

Remarks. Recorded for the first time from southern Hedmark (HES).

***Euthyneura albipennis* (Zetterstedt, 1842)**

Material. HeLoc17*, 23 June–11 July 2016, 2♀♀, Malaise trap; HeLoc32*, 23 June–11 July 2016, 1♀, Malaise trap; HeLoc34, 21 June–20 July 2017, 1♂, light trap; HeLoc71*, 21 July–4 August 2016, 1♀, Malaise trap; HeLoc74*, 23 June–11 July 2016, 3♀♀, Malaise trap.

Additional material. HES, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 22 June–10 July 2003, 3♀♀, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO); Femoen, N60.2033° E12.3506°, 206 m a.s.l., 21 June–18 July 2006, 4♀♀, Malaise trap, leg. K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 14 June–8 August 2004, 4♀♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–31 July 1990, 2♂♂2♀♀, Malaise

trap, leg. A. Bruserud. Våler: Nordre Bølsjøen, Gjerdåskoia, N60.85139° E12.10317°, 396 m a.s.l., 7 July–6 August 2009, 1♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO). **HEN**, Åmot: Deifjellia, N61.2843° E11.505°, 515 m a.s.l., 5 May–6 July 2018, 2♀♀, Malaise trap, leg. K.M. Olsen.

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

Euthyneura gyllenhali (Zetterstedt, 1838)

Material. HeLoc17*, 23 June–11 July 2016, 1♂1♀, Malaise trap; HeLoc34, 21 June–20 July 2017, 1♀, light trap; HeLoc47*, 23 June–11 July 2016, 1♀, Malaise trap; HeLoc74*, 23 June–11 July 2016, 1♂1♀; 11–21 July 2016, 1♂, Malaise trap.

Additional material. **HES**, Kongsvinger: Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 14 June–8 August 2004, 1♀, Malaise trap, leg. K. Sund (ZMO). Våler: Nordre Bølsjøen, Gjerdåskoia, N60.85139° E12.10317°, 396 m a.s.l., 6 May–7 July 2009, 1♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO). **HEN**, Åmot: Deifjellia, N61.2843° E11.505°, 515 m a.s.l., 5 May–6 July 2018, 2♀♀; 6 July–22 September 2018, 1♂1♀, Malaise trap, leg. K.M. Olsen.

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

Euthyneura myrtilli Macquart, 1836

Material. HeLoc17*, 23 June–11 July 2016, 3♀♀; 11–21 July 2016, 1♀, Malaise trap; HeLoc32*, 26 May–9 June 2016, 1♂; 9–23 June 2016, 1♂4♀♀; 23 June–11 July 2016, 1♀, Malaise trap; HeLoc34, 3–21 June 2017, 2♂♂13♀♀; 21 June–20 July 2017, 5♂♂17♀♀, light trap; HeLoc45*, 24 June–11 July 2016, 1♂6♀♀; 11–21 July 2016, 1♂3♀♀, Malaise trap; HeLoc47*, 9–23 June 2016, 2♀♀; 23 June–11 July 2016, 1♂4♀♀; 11–21 July 2016, 1♀, Malaise trap; HeLoc59, 24 July 2017, 2♀♀, light trap; HeLoc71*, 9–23 Juni 2016, 1♂1♀; 23 June–11 July 2016, 4♀♀; 11–21 July 2016, 3♀♀, Malaise trap; HeLoc74*, 23 June–11 July 2016, 18♂♂24♀♀; 11–21 July 2016, 6♂♂13♀♀; 21 July–4 August 2016, 1♂4♀♀, Malaise trap; HeLoc75*, 23 June–11 July 2016, 1♂1♀; 11–21 July 2016, 1♀, Malaise

trap; 16 July–19 September 2016, 3♀♀, window trap; HeLoc78*, 23 June–11 July 2016, 3♀♀; 11–21 July 2016, 4♀♀, Malaise trap; HeLoc84, 23 July 2016, 1♀, sweep net; HeLoc87, 26 July 2017, 1♀, sweep net; HeLoc88, 25 July 2017, 1♀, sweep net.

Additional material. **HES**, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 22 June–10 July 2003, 2♀♀, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO); Dragonmoen, N60.19641° E12.36511°, 196 m a.s.l., 22 June–9 July 2005, 2♂♂8♀♀, Malaise trap, leg. K. Sund (ZMO); Femoen, N60.2033° E12.3506°, 206 m a.s.l., 21 June–18 July 2006, 14♀♀, Malaise trap, leg. K. Sund (ZMO); Fjørsjøen, N60.176827° E12.435088°, 225 m a.s.l., 6 June–2 July 2015, 1♂14♀♀, Malaise trap, leg. K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 14 June–8 August 2004, 7♀♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–31 July 1990, 1♀, Malaise trap, leg. A. Bruserud. Våler: Nordre Bølsjøen, Gjerdåskoia, N60.85139° E12.10317°, 396 m a.s.l., 7 July–6 August 2009, 1♂3♀♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO); Nordre Bølsjøen, Kaskonbekken, N60.85639° E12.08927°, 390 m a.s.l., 7 July–6 August 2009, 1♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO). **HEN**, Åmot: Deifjellia, N61.2843° E11.505°, 515 m a.s.l., 5 May–6 July 2018, 2♀♀, Malaise trap, leg. K.M. Olsen.

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

Hybos culiciformis (Fabricius, 1775) (Figure 1)

Additional material. **HES**, Kongsvinger: Dragonmoen, N60.19641° E12.36511°, 196 m a.s.l., 14 August–6 September 2005, 1♂, Malaise trap, leg. K. Sund (ZMO).

Remarks. Recorded for the first time from southern Hedmark (HES).

Hybos femoratus (Müller, 1776)

Material. HeLoc03, 23 July 2017, 1♂, sweep net; HeLoc17*, 23 June–11 July 2016, 1♂1♀; 11–21 July 2016, 1♂; 21 July–4 August 2016, 1♂3♀♀; 4–17 August 2016, 3♀♀, Malaise



FIGURE 1. *Hybos culiciformis* (Fabricius, 1775) was only collected in an additional locality southern Hedmark. Photo: Morten Angard Mjelde.

trap; HeLoc24, 15 August 2016, 1♂, sweep net; HeLoc25, 20 August–16 September 2016, 1♀, light trap; HeLoc29, 24 July 2017, 1♀, sweep net; HeLoc32*, 17 August–2 September 2016, 1♀; 2–16 September 2016, 1♀, Malaise trap; HeLoc34, 21 June–20 July 2017, 1♂, light trap; HeLoc37*, 27 July 2016, 1♂3♀♀, sweep net; HeLoc47*, 23 June–11 July 2016, 2♂♂; 11–21 July 2016, 1♀; 21 July–4 August 2016, 1♀; 4–17 August 2016, 1♀, Malaise trap.

Additional material. HES, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 22 June–10 July 2003, 2♂♂2♀♀, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO); Vikør, Vikøråa, N60.202567° E12.450709°, 276 m a.s.l., 29 June–12 August 2007, 1♀, Malaise trap, leg. K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 14 June–8 August 2004, 1♂6♀♀; 8 August–29 October 2004, 2♀♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker:

Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–31 July 1990, 2♂♂; 1–31 August 1990, 1♀, Malaise trap, leg. A. Bruserud; Sandvoll, N60.779455° E10.787998°, 147 m a.s.l., 1–30 September 1993, 1♀, Malaise trap, leg. G. Bakkerud.

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

Hybos grossipes (Linnaeus, 1767)

Material. HeLoc03, 23 July 2017, 2♀♀, sweep net; HeLoc04, 22 July 2017, 10♂♂6♀♀, sweep net; HeLoc05, 23 July 2017, 2♂♂, sweep net; HeLoc07, 22 July 2017, 2♂♂2♀♀, sweep net; HeLoc08, 22 July 2017, 2♂♂2♀♀, sweep net; HeLoc11, 21 July 2017, 3♂♂1♀, sweep net; HeLoc12, 21 July 2017, 1♂, sweep net; HeLoc13, 21 July 2017, 3♂♂5♀♀, sweep net / light trap; HeLoc17*, 23 June–11 July 2016, 4♂♂3♀♀; 11–21 July 2016, 10♂♂8♀♀; 21 July–4 August

2016, 10♂♂14♀♀; 4–17 August 2016, 1♂3♀♀, Malaise trap; HeLoc18, 21 July 2017, 5♂♂2♀♀, sweep net; HeLoc22, 21 July 2017, 1♀, sweep net; HeLoc24, 15 August 2016, 4♀♀, sweep net; HeLoc25, 20 August–16 September 2016, 4♀♀, light trap; HeLoc32*, 23 June–11 July 2016, 1♂1♀; 21 July–4 August 2016, 4♂♂4♀♀; 4–17 August 2016, 1♀; 17 August–2 September 2016, 1♀; 29 September–13 October 2016, 1♀, Malaise trap; HeLoc34, 21 June–20 July 2017, 5♂♂10♀♀; 20 July–6 August 2017, 22♂♂53♀♀; 6 August–10 September 2017, 13♂♂59♀♀, light trap; HeLoc37*, 27 July 2016, 7♂♂21♀♀, sweep net; HeLoc47*, 23 June–11 July 2016, 1♀; 11–21 July 2016, 3♂♂; 21 July–4 August 2016, 7♂♂5♀♀; 4–17 August 2016, 9♂♂11♀♀; 2–16 September 2016, 4♀♀, Malaise trap; HeLoc48, 24 July 2017, 1♂1♀, sweep net; HeLoc70*, 25 July 2016, 2♂♂1♀; 16 August 2016, 1♀, sweep net; HeLoc74*, 21 July–4 August 2016, 1♂; 16–29 September 2016, 1♀, Malaise trap; HeLoc76*, 17 August 2016, 2♀♀, sweep net; HeLoc78*, 21 July–4 August 2016, 3♂♂2♀♀; 4–17 August 2016, 2♀♀; 17 August–2 September 2016, 1♀, Malaise trap; HeLoc84, 23 July 2016, 1♂, sweep net; HeLoc88, 25 July 2017, 1♀, sweep net.

Additional material. HES, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 22 June–10 July 2003, 19♂♂2♀♀, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO); Dragonmoen, N60.19641° E12.36511°, 196 m a.s.l., 14 August–6 September 2005, 2♂♂5♀♀, Malaise trap, leg. K. Sund (ZMO); Femoen, N60.2033° E12.3506°, 206 m a.s.l., 21 June–18 July 2006, 24♂♂22♀♀, Malaise trap, leg. K. Sund (ZMO); Fjørsjøen, N60.176827° E12.435088°, 225 m a.s.l., 2 July–3 August 2015, 8♂♂3♀♀, Malaise trap, leg. K. Sund (ZMO); Vikar, Vikeraa, N60.202567° E12.450709°, 276 m a.s.l., 29 June–12 August 2007, 7♂♂7♀♀, Malaise trap, leg. K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 14 June–8 August 2004, 15♂♂11♀♀; 8 August–29 October 2004, 3♂♂41♀♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–31 July 1990, 1♂; 1–31 August 1990, 1♀, Malaise trap, leg. A. Bruserud; Sandvoll, N60.779455°

E10.787998°, 147 m a.s.l., 1–30 September 1993, 4♀♀, Malaise trap, leg. G. Bakkerud. Eidskog: Magnor motorcrossbane, N59.9535° E12.1754°, 135 m a.s.l., 4 June–26 July 2018, 1♂1♀, Malaise trap, leg. K.M. Olsen & A. Thylén. Våler: Nordre Bølsjøen, Gjerdåskoia, N60.85139° E12.10317°, 396 m a.s.l., 7 July–6 August 2009, 8♂♂12♀♀; 6 August–28 October 2009, 3♂♂20♀♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO); Nordre Bølsjøen, Kaskonbekken, N60.85639° E12.08927°, 390 m a.s.l., 6 August–28 October 2009, 1♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO). HEN, Åmot: Deifjellia, N61.2843° E11.505°, 515 m a.s.l., 6 July–22 September 2018, 2♂♂, Malaise trap, leg. K.M. Olsen.

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

Leptodromiella crassiseti (Tuomikoski, 1932)

Material. HeLoc17*, 23 June–11 July 2016, 1♀, Malaise trap; HeLoc20*, 1♂, sweep net.

Additional material. HES, Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–30 June 1990, 1♀, Malaise trap, leg. A. Bruserud.

Remarks. Recorded for the first time from northern Hedmark (HEN). A rare species. A single female has previously been reported from Norway, also from Hedmark: Ringsaker: Helgøya in Mjøsa (Jonassen 1998).

Leptopeza borealis Zetterstedt, 1842

Material. HeLoc17*, 9–23 June 2016, 1♂2♀♀, Malaise trap; HeLoc32*, 26 May–9 June 2016, 1♂, Malaise trap; HeLoc34, 21 June–20 July 2017, 1♀, light trap; HeLoc47*, 9–23 June 2016, 1♀; 23 June–11 July 2016, 1♂2♀♀; 11–21 July 2016, 1♀, Malaise trap; HeLoc71*, 23 June–11 July 2016, 1♂, Malaise trap; HeLoc74*, 26 May–9 June 2016, 1♂; 23 June–11 July 2016, 3♂♂9♀♀; 11–21 July 2016, 7♀♀; 21 July–4 August 2016, 4♀♀, Malaise trap.

Additional material. HES, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 26 May–22 June 2003, 1♂; 22 June–10 July 2003, 8♂♂1♀, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO); Dragonmoen, N60.19641° E12.36511°, 196 m a.s.l., 22 June–9 July 2005,

6♀♀, Malaise trap, leg. K. Sund (ZMO); Femoen, N60.2033° E12.3506°, 206 m a.s.l., 21 June–18 July 2006, 1♂2♀♀, Malaise trap, leg. K. Sund (ZMO); Fjørsjøen, N60.176827° E12.435088°, 225 m a.s.l., 6 June–2 July 2015, 2♀♀, Malaise trap, leg. K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 14 June–8 August 2004, 3♀♀; 8 August–29 October 2004, 3♂♂41♀♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–30 June 1990, 1♂, Malaise trap, leg. A. Bruserud. Våler: Nordre Bølsjøen, Gjerdåskoia, N60.85139° E12.10317°, 396 m a.s.l., 6 May–7 June 2009, 1♀; 7 June–6 August 2009, 1♂1♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO). HEN, Åmot: Deifjellia, N61.2843° E11.505°, 515 m a.s.l., 5 May–6 July 2018, 3♂♂2♀♀; 6 July–22 September 2018, 1♀, Malaise trap, leg. K.M. Olsen.

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

Leptozeza flavipes (Meigen, 1820)

Additional material. HES, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 22 June–10 July 2003, 2♀♀, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO); Dragonmoen, N60.19641° E12.36511°, 196 m a.s.l., 22 June–9 July 2005, 1♂1♀, Malaise trap, leg. K. Sund (ZMO); Femoen, N60.2033° E12.3506°, 206 m a.s.l., 21 June–18 July 2006, 2♀♀, Malaise trap, leg. K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 14 June–8 August 2004, 1♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–31 July 1990, 1♂2♀♀, Malaise trap, leg. A. Bruserud; Sandvoll, N60.779455° E10.787998°, 147 m a.s.l., 1–30 September 1993, 2♀♀, Malaise trap, leg. G. Bakkerud. Eidskog: Magnor motorcrossbane, N59.9535° E12.1754°, 135 m a.s.l., 4 June–26 July 2018, 1♂, Malaise trap, leg. K.M. Olsen & A. Thylén. HEN, Åmot: Deifjellia, N61.2843° E11.505°, 515 m a.s.l., 5 May–6 July 2018, 1♀, Malaise trap, leg. K.M. Olsen

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

Ocydromia glabricula (Fallén, 1816)

Material. HeLoc34, 6 August–10 September 2017, 1♂; 10 September–20 October 2017, 1♀, light trap; HeLoc41, 29 July 2016, 1♀, sweep net; HeLoc63, 17 August 2016, 1♂, sweep net; HeLoc64*, 28 July 2016, 1♂, sweep net; HeLoc70*, 25 July 2016, 1♀, sweep net.

Additional material. HES, Kongsvinger: Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 8 August–29 October 2004, 1♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Helgøya, Eksberget, N60.735963° E10.974627°, 318 m a.s.l., 24 July 1992, 1♀, sweep net, leg. G. Bakkerud; Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–31 August 1990, 1♂2♀♀, Malaise trap, leg. A. Bruserud; Sandvoll, N60.779455° E10.787998°, 147 m a.s.l., 1–30 September 1993, 1♂1♀, Malaise trap, leg. G. Bakkerud; Veldre, N60.917283° E10.890533°, 311 m a.s.l., 9 July 1991, 2♀♀, sweep net, leg. G. Bakkerud.

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

Ocydromia melanopleura (Loew, 1840)

Material. HeLoc14*, 26 June 2016, 1♀, sweep net; HeLoc25, 20 August–16 September 2016, 1♀, light trap; HeLoc37*, 27 July 2016, 1♀, sweep net; HeLoc56, 18 August 2016, 1♀, sweep net.

Additional material. HES, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 10 August–30 September 2003, 2♀♀, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 8 August–29 October 2004, 2♀♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–31 July 1990, 1♂, Malaise trap, leg. A. Bruserud; Sandvoll, N60.779455° E10.787998°, 147 m a.s.l., 1–30 September 1993, 2♀♀, Malaise trap, leg. G. Bakkerud. HEN, Åmot: Deifjellia, N61.2843° E11.505°, 515 m a.s.l., 5 May–6 July 2018, 1♂, Malaise trap, leg. K.M. Olsen.

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

***Oedalea freyi* Chvála, 1983**

Material. HeLoc74*, 23 June–11 July 2016, 1 ♀, Malaise trap.

Remarks. Recorded for the first time from northern Hedmark (HEN). The species was reported as new to Norway during the Finnmark survey (Jonassen *et al.* 2013). A northern species in Fennoscandia and Russia (Chvála 1983), probably making the record from Hedmark the southernmost occurrence reported to date.

***Oedalea hybotina* (Fallén, 1816)**

Material. HeLoc32*, 23 June–11 July 2016, 1 ♀, Malaise trap.

Additional material. HES, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 22 June–10 July 2003, 2 ♀♀, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO); Fjørsjøen, N60.176827° E12.435088°, 225 m a.s.l., 2 July–3 August 2015, 1 ♀, Malaise trap, leg. K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 14 June–8 August 2004, 2 ♀♀, Malaise trap, leg. K. Sund (ZMO).

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

***Oedalea ringdahli* Chvála, 1983**

Additional material. HES, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 10 July–10 August 2003, 1 ♀, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO); Dragonmoen, N60.19641° E12.36511°, 196 m a.s.l., 22 June–9 July 2005, 1 ♀, Malaise trap, leg. K. Sund (ZMO); Femoen, N60.2033° E12.3506°, 206 m a.s.l., 21 June–18 July 2006, 1 ♀, Malaise trap, leg. K. Sund (ZMO).

Remarks. Recorded for the first time from southern Hedmark (HES).

***Oedalea stigmatella* Zetterstedt, 1842**

Material. HeLoc34, 6 August–10 September 2017, 1 ♂, light trap; HeLoc74*, 11–21 July 2016, 1 ♀; 21 July–4 August 2016, 1 ♀, Malaise trap.

Additional material. HES, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 22 June–10 July 2003, 1 ♀, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO); Dragonmoen, N60.19641° E12.36511°, 196 m a.s.l., 22 June–9

July 2005, 2 ♀♀, Malaise trap, leg. K. Sund (ZMO); Femoen, N60.2033° E12.3506°, 206 m a.s.l., 21 June–18 July 2006, 1 ♀, Malaise trap, leg. K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 14 June–8 August 2004, 2 ♀♀; 8 August–29 October 2004, 1 ♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–31 August 1990, 1 ♂, Malaise trap, leg. A. Bruserud; Sandvoll, N60.779455° E10.787998°, 147 m a.s.l., 1–30 September 1993, 6 ♀♀, Malaise trap, leg. G. Bakkerud. HEN, Åmot: Deifjellia, N61.2843° E11.505°, 515 m a.s.l., 5 May–6 July 2018, 5 ♀♀; 6 July–22 September 2018, 2 ♀♀, Malaise trap, leg. K.M. Olsen.

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

***Oedalea zetterstedti* Collin, 1926**

Material. HeLoc47*, 21 July–4 August 2016, 1 ♀, Malaise trap.

Additional material. HES, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 22 June–10 July 2003, 5 ♀♀, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO); Dragonmoen, N60.19641° E12.36511°, 196 m a.s.l., 22 June–9 July 2005, 1 ♂2 ♀♀, Malaise trap, leg. K. Sund (ZMO); Femoen, N60.2033° E12.3506°, 206 m a.s.l., 21 June–18 July 2006, 2 ♀♀, Malaise trap, leg. K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 14 June–8 August 2004, 8 ♀♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–31 August 1990, 1 ♀, Malaise trap, leg. A. Bruserud. Våler: Nordre Bølsjøen, Gjerdåskoia, N60.85139° E12.10317°, 396 m a.s.l., 6 May–7 June 2009, 10 ♀♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO); Nordre Bølsjøen, Kaskonbekken, N60.85639° E12.08927°, 390 m a.s.l., 7 June–6 August 2009, 2 ♂♂5 ♀♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO). HEN, Åmot: Deifjellia, N61.2843° E11.505°, 515 m a.s.l., 5 May–6 July 2018, 3 ♂♂5 ♀♀, Malaise trap, leg. K.M. Olsen.

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

***Platypalpus alter* (Collin, 1961)**

Material. HeLoc34, 21 June–20 July 2017, 1♂, light trap; HeLoc71*, 21 July–4 August 2016, 2♀♀; 17 August–2 September 2016, 1♀, Malaise trap; HeLoc74*, 23 June–11 July 2016, 1♀, Malaise trap; 15 July–18 September 2016, 2♂♂, window trap.

Remarks. Recorded for the first time from northern Hedmark (HEN).

***Platypalpus annulatus* (Fallén, 1815)**

Additional material. HES, Ringsaker: Sandvoll, N60.779455° E10.787998°, 147 m a.s.l., 1–31 August 1992, 1♀, Malaise trap, leg. G. Bakkerud.

Remarks. Recorded for the first time from southern Hedmark (HES).

***Platypalpus argenticnemis* Jonassen, 2021**

Material. HeLoc34, 21 June–20 July 2017, 1♂2♀♀; 20 July–6 August 2017, 1♂; 6 August–10 September 2017, 2♀♀, light trap.

Additional material. HEN, Åmot: Deifjellia, N61.2843° E11.505°, 515 m a.s.l., 5 May–6 July 2018, 2♂♂3♀♀, Malaise trap, leg. K.M. Olsen.

Remarks. The species was recently described partly based on material collected in Finnmark in 2010 during the Finnmark survey, partly on material from Sweden and Finland (Jonassen *et al.* 2021). The material from the Hedmarksprosjektet was listed as additional material.

The species is a rather large and distinct species within the *Platypalpus ciliaris*-group showing the unique combination of having numerous acrostichals and dorsocentrals together with a largely polished pleura. The apical spur of mid tibia is also longer than in other known European species of this group, and the front tibia has a dorsal, silvery pile covering most of basal half.

***Platypalpus articulatooides* (Frey, 1918)**

Material. HeLoc35, 29–31 July 2016, 3♂♂1♀, light trap.

Remarks. Recorded for the first time from northern Hedmark (HEN).

***Platypalpus borealpinus* Frey, 1943**

Material. HeLoc17*, 26 May–9 June 2016, 1♂; 9–23 June 2016, 1♂; 23 June–11 July 2016, 4♀♀; 21 July–4 August 2016, 1♀, Malaise trap; HeLoc32*, 9–23 June 2016, 1♀; 23 June–11 July 2016, 1♀, Malaise trap; HeLoc36*, 3 June–25 July 2017, 4♂♂1♀, Malaise trap; HeLoc45*, 9–24 June 2016, 1♂, Malaise trap; HeLoc47*, 26 May–9 June 2016, 2♂♂1♀; 9–23 June 2016, 4♂♂6♀♀; 23 June–11 July 2016, 6♂♂9♀♀; 11–21 July 2016, 1♂5♀♀; 21 July–4 August 2016, 3♀♀, Malaise trap; HeLoc71*, 9–23 June 2016, 1♂; 23 June–11 July 2016, 1♂4♀♀; 11–21 July 2016, 1♂2♀♀; 21 July–4 August 2016, 1♀, Malaise trap; HeLoc74*, 23 June–11 July 2016, 1♀; 11–21 July 2016, 1♂4♀♀; 21 July–4 August 2016, 6♀♀; 4–17 August, 1♀, Malaise trap; HeLoc75*, 23 June–11 July 2016, 3♂♂5♀♀; 11–21 July 2016, 2♀♀, Malaise trap; 16 July–19 September 2016, 2♀♀, window trap; HeLoc78*, 23 June–11 July 2016, 1♂1♀, Malaise trap; HeLoc94*, 30 June 2016, 1♀, sweep net.

Additional material. HES, Kongsvinger: Viker, Vikeraa, N60.202567° E12.450709°, 276 m a.s.l., 29 June–12 August 2007, 1♀, Malaise trap, leg. K. Sund (ZMO). Våler: Nordre Bølsjøen, Gjerdåskoia, N60.85139° E12.10317°, 396 m a.s.l., 6 May–7 June 2009, 1♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO); Nordre Bølsjøen, Kaskonbekken, N60.85639° E12.08927°, 390 m a.s.l., 7 June–6 August 2009, 1♂, Malaise trap, leg. E. Rindal & G. Søli (ZMO).

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

***Platypalpus brachystylus* (Bezzi, 1892)**

Material. HeLoc45*, 21 July–4 August 2016, 1♀, Malaise trap; HeLoc47*, 21 July–4 August 2016, 1♀, Malaise trap; HeLoc71*, 23 June–11 July 2016, 1 gynandromorphic specimen; 11–21 July 2016, 3♀♀; 21 July–4 August 2016, 1♀, Malaise trap; HeLoc74*, 23 June–11 July 2016, 1♀; 11–21 July 2016, 1♂; 21 July–4 August 2016, 1♀; 17 August–2 September 2016, 1♀, Malaise trap; HeLoc75*, 23 June–11 July 2016, 4♂♂3♀♀; 11–21 July 2016, 1♀; 21 July–4 August 2016, 3♂♂, Malaise trap; HeLoc78*, 23 June–11 July 2016, 5♂♂7♀♀; 11–21 July 2016, 1♂; 21 July–4

August 2016, 1♂1♀, Malaise trap.

Additional material. HES, Kongsvinger: Fjørsjøen, N60.176827° E12.435088°, 225 m a.s.l., 6 June–2 July 2015, 1♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–30 September 1990, 1♂1♀, Malaise trap, leg. A. Bruserud.

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

Platypalpus brevicornis (Zetterstedt, 1842)

Material. HeLoc04, 22 July 2017, 1♀, sweep net; HeLoc34, 21 June–20 July 2017, 1♀, light trap.

Additional material. HES, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 22 June–10 July 2003, 1♀, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO); Femoen, N60.2033° E12.3506°, 206 m a.s.l., 11 May–21 June 2006, 1♀, Malaise trap, leg. K. Sund (ZMO). HEN, Åmot: Deifjellia, N61.2843° E11.505°, 515 m a.s.l., 5 May–6 July 2018, 1♀, Malaise trap, leg. K.M. Olsen.

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

Platypalpus candicans (Fallén, 1815)

Material. HeLoc10, 22 July 2017, 4♀♀, sweep net; HeLoc17*, 23 June–11 July 2016, 14♀♀; 11–21 July 2016, 22♀♀; 21 July–4 August 2016, 9♀♀, Malaise trap; HeLoc19, 21 July 2017, 2♀♀, sweep net; HeLoc32*, 21 July–4 August 2016, 2♀♀; 4–17 August 2016, 1♀, Malaise trap; HeLoc47*, 21 July–4 August 2016, 2♀♀; 4–17 August 2016, 2♀♀, Malaise trap; HeLoc48, 24 July 2017, 1♀♀, sweep net; HeLoc71*, 11–21 July 2016, 1♀; 21 July–4 August 2016, 2♀♀; 4–17 August 2016, 2♀♀; 17 August–2 September 2016, 3♀♀, Malaise trap; HeLoc74*, 21 July–4 August 2016, 4♀♀, Malaise trap; HeLoc75*, 11–21 July 2016, 3♀♀; 21 July–4 August 2016, 7♀♀, Malaise trap; HeLoc78*, 23 June–11 July 2016, 5♀♀; 11–21 July 2016, 22♀♀; 21 July–4 August 2016, 41♀♀; 17 August–2 September 2016, 1♀, Malaise trap.

Additional material. HES, Kongsvinger: Vikar, Vikeraa, N60.202567° E12.450709°, 276

m a.s.l., 29 June–12 August 2007, 12♀♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Sandvoll, N60.779455° E10.787998°, 147 m a.s.l., 1–30 September 1993, 6♀♀, Malaise trap, leg. G. Bakkerud.

Remarks. Recorded for the first time from southern Hedmark (HES).

Platypalpus ciliaris (Fallén, 1816)

Material. HeLoc09, 22 July 2017, 1♂1♀, sweep net; HeLoc17*, 11–21 July 2016, 1♂; 21 July–4 August 2016, 1♀; 17 August–2 September 2016, 1♀, Malaise trap; HeLoc25, 20 August–16 September 2016, 2♀♀, light trap; HeLoc32*, 4–17 August 2016, 1♀; 17 August–2 September 2016, 1♀, Malaise trap; HeLoc34, 21 June–20 July 2017, 1♂1♀; 20 July–6 August 2017, 3♀♀; 6 August–10 September 2017, 6♂♂6♀♀; 10 September–20 October 2017, 1♀, light trap; HeLoc71*, 17 August–2 September 2016, 1♀, Malaise trap; HeLoc74*, 21 July–4 August 2016, 1♂2♀♀; 17 August–2 September 2016, 2♀♀; 2–16 September 2016, 2♀♀, Malaise trap; 15 July–18 September 2016, 1♂, window trap.

Additional material. HES, Kongsvinger: Dragonmoen, N60.19641° E12.36511°, 196 m a.s.l., 14 August–6 September 2005, 1♂2♀♀, Malaise trap, leg. K. Sund (ZMO); Femoen, N60.2033° E12.3506°, 206 m a.s.l., 21 June–18 July 2006, 1♂1♀, Malaise trap, leg. K. Sund (ZMO); Fjørsjøen, N60.176827° E12.435088°, 225 m a.s.l., 2 July–3 August 2015, 1♀, Malaise trap, leg. K. Sund (ZMO); Vikar, Vikeraa, N60.202567° E12.450709°, 276 m a.s.l., 12 August–26 September 2007, 1♂, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Sandvoll, N60.779455° E10.787998°, 147 m a.s.l., 1–30 September 1993, 1♂, Malaise trap, leg. G. Bakkerud. Våler: Nordre Bølsjøen, Gjerdåskoia, N60.85139° E12.10317°, 396 m a.s.l., 6 May–7 June 2009, 2♂♂5♀♀; 7 June–6 August 2009, 1♂2♀♀; 6 August–28 October 2009, 4♀♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO). HEN, Åmot: Deifjellia, N61.2843° E11.505°, 515 m a.s.l., 6 July–22 September 2018, 2♂♂1♀, Malaise trap, leg. K.M. Olsen.

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

***Platypalpus confiformis* Chvála, 1971**

Material. HeLoc75*, 23 June–11 July 2016, 1♀; 4–17 August 2016, 1♀, Malaise trap; HeLoc90*, 30 June 2016, 1♂, sweep net; HeLoc94*, 30 June 2016, 1♀, sweep net.

Additional material. HES, Ringsaker: Sandvoll, N60.779455° E10.787998°, 147 m a.s.l., 23 July 1992, 1♀, sweep net, leg. G. Bakkerud.

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

***Platypalpus confinis* (Zetterstedt, 1842)**

Material. HeLoc17*, 11–21 July 2016, 1♂, Malaise trap; HeLoc34, 21 June–20 July 2017, 2♂♂; 20 July–6 August 2017, 1♀, light trap; HeLoc47*, 23 June–11 July 2016, 1♂; 11–21 July 2016, 2♂♂, Malaise trap; HeLoc71*, 11–21 July 2016, 2♂♂; 21 July–4 August 2016, 1♂3♀♀; 4–17 August 2016, 1♀; 17 August–2 September 2016, 1♂1♀, Malaise trap; HeLoc74*, 23 June–11 July 2016, 5♂♂; 11–21 July 2016, 11♂♂5♀♀; 21 July–4 August 2016, 7♂♂13♀♀; 4–17 August 2016, 6♂♂2♀♀; 17 August–2 September 2016, 1♂3♀♀, Malaise trap; HeLoc75*, 21 July–4 August 2016, 3♀♀; 17 August–2 September 2016, 2♀♀, Malaise trap; 16 July–19 September 2016, 1♀, window trap; HeLoc86, 24–25 July 2017, 1♂, yellow pan trap; HeLoc88, 25 July 2017, 1♀, sweep net; HeLoc91, 24–25 July 2017, 1♂1♀, yellow pan trap; HeLoc92*, 17 August 2016, 1♂, sweep net.

Additional material. HES, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 22 June–10 July 2003, 1♂2♀♀, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO); Dragonmoen, N60.19641° E12.36511°, 196 m a.s.l., 22 June–9 July 2005, 1♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–31 July 1990, 1♀, Malaise trap, leg. A. Bruserud. Våler: Nordre Bølsjøen, Gjerdåskoia, N60.85139° E12.10317°, 396 m a.s.l., 6 May–7 June 2009, 2♂♂2♀♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO); Nordre Bølsjøen, Kaskonbekken, N60.85639° E12.08927°, 390 m a.s.l., 7 June–6 August 2009, 1♂6♀♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO). HEN, Åmot: Deifjellia, N61.2843° E11.505°, 515 m a.s.l., 6 July–22

September 2018, 1♂1♀, Malaise trap, leg. K.M. Olsen.

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

***Platypalpus cothurnatus* Macquart, 1827**

Additional material. HES, Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–31 July 1990, 1♀, Malaise trap, leg. A. Bruserud.

Remarks. Recorded for the first time from southern Hedmark (HES).

***Platypalpus cursitans* (Fabricius, 1775)**

Material. HeLoc06, 23 July 2017, 1♀, sweep net; HeLoc19, 21 July 2017, 1♀, sweep net; HeLoc29, 24 July 2017, 1♀, sweep net; HeLoc32*, 11–21 July 2016, 1♀, Malaise trap; HeLoc34, 3–21 June 2017, 5♀♀; 21 June–20 July 2017, 12♂♂99♀♀; 20 July–6 August 2017, 1♂7♀♀, light trap; HeLoc35, June 2015, 3♀♀, Malaise trap; HeLoc43, 24 July 2017, 1♀, sweep net; HeLoc71*, 21 July–4 August 2016, 1♀; 7 August–2 September 2016, 1♀, Malaise trap; HeLoc74*, 21 July–4 August 2016, 1♀, Malaise trap; HeLoc75*, 21 July–4 August 2016, 1♀, Malaise trap; HeLoc78*, 11–21 July 2016, 2♀♀, Malaise trap; HeLoc85, 23 July 2016, 1♀, sweep net; HeLoc90*, 30 June 2016, 1♀, sweep net.

Additional material. HES, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 22 June–10 July 2003, 54♀♀, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO); Dragonmoen, N60.19641° E12.36511°, 196 m a.s.l., 22 June–9 July 2005, 9♀♀, Malaise trap, leg. K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 22 April–14 June 2004, 5♀♀; 14 June–8 August 2004, 7♀♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Sandvoll, N60.779455° E10.787998°, 147 m a.s.l., 1–24 June 1993, 1♂4♀♀; 1–30 June 2000, 1♀, Malaise trap, leg. G. Bakkerud.

***Platypalpus ecalceatus* (Zetterstedt, 1838)**

Material. HeLoc04, 22 July 2017, 1♀, sweep net; HeLoc13, 21 July 2017, 1♀, sweep net / light trap; HeLoc17*, 21 July–4 August 2016, 1♀; 4–17 August 2016, 1♀, Malaise trap; HeLoc25,

20 August–16 September 2016, 3♀♀, light trap; HeLoc32*, 11–21 July 2016, 1♀, Malaise trap; HeLoc34, 3–21 June 2017, 3♀♀; 21 June–20 July 2017, 30♀♀; 20 July–6 August 2017, 3♀♀; 6 August–10 September 2017, 1♀, light trap; HeLoc35, 29–31 July 2016, 2♀♀, light trap; HeLoc47*, 23 June–11 July 2016, 9♀♀; 11–21 July 2016, 21♀♀; 21 July–4 August 2016, 3♀♀, Malaise trap; HeLoc48, 24 July 2017, 1♀, sweep net; HeLoc58, 23–25 July 2016, 1♀, sweep net; HeLoc71*, 23 June–11 July 2016, 6♀♀; 11–21 July 2016, 6♀♀; 21 July–4 August 2016, 10♀♀; 4–17 August 2016, 2♀♀, Malaise trap; HeLoc73*, 28 July 2016, 1♀, sweep net; HeLoc74*, 23 June–11 July 2016, 2♂♂31♀♀; 11–21 July 2016, 52♀♀; 21 July–4 August 2016, 54♀♀; 4–17 August 2016, 1♀, Malaise trap; 15 July–18 September 2016, 1♀, window trap; HeLoc75*, 23 June–11 July 2016, 1♂20♀♀; 11–21 July 2016, 1♂57♀♀; 21 July–4 August 2016, 46♀♀; 4–17 August 2016, 1♀, Malaise trap; HeLoc78*, 23 June–11 July 2016, 37♀♀; 11–21 July 2016, 23♀♀; 21 July–4 August 2016, 16♀♀; 4–17 August 2016, 1♀, Malaise trap; HeLoc83*, 27 June 2016, 1♀, sweep net; HeLoc86, 24 July 2017, 1♀, sweep net; HeLoc87, 26 July 2017, 5♀♀, sweep net; HeLoc88, 25 July 2017, 1♀, sweep net; HeLoc91, 24–25 July 2017, 1♀, yellow pan trap; HeLoc94*, 30 June 2016, 1♀, sweep net.

Additional material. HES, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 22 June–10 July 2003, 1♀, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO); Dragonmoen, N60.19641° E12.36511°, 196 m a.s.l., 22 June–9 July 2005, 1♀, Malaise trap, leg. K. Sund (ZMO); Vikar, Vikeraa, N60.202567° E12.450709°, 276 m a.s.l., 29 June–12 August 2007, 1♀, Malaise trap, leg. K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 22 April–14 June 2004, 19♀♀; 14 June–8 August 2004, 50♀♀; 8 August–29 October, 2004, 1♀, Malaise trap, leg. K. Sund (ZMO). HEN, Åmot: Deifjellia, N61.2843° E11.505°, 515 m a.s.l., 5 May–6 July 2018, 3♀♀, Malaise trap, leg. K.M. Olsen.

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

Platypalpus excavatus Yang & Yao, 2007

Material. HeLoc75*, 4–17 August 2016, 1♂, Malaise trap; HeLoc78*, 23 June–11 July 2016, 1♂; 21 July–4 August 2016, 1♂, Malaise trap.

Remarks. Recorded for the first time from northern Hedmark (HEN).

Platypalpus interstinctus (Collin, 1926)

Material. HeLoc34, 21 June–20 July 2017, 1♀; 20 July–6 August 2017, 1♀, light trap.

Additional material. HES, Ringsaker: Sandvoll, N60.779455° E10.787998°, 147 m a.s.l., 1–31 July 1992, 1♂1♀, Malaise trap, leg. G. Bakkerud.

Remarks. Recorded for the first time from northern Hedmark (HEN).

Platypalpus longicornis (Meigen, 1822)

Material. HeLoc51, 18 August 2016, 1♀, sweep net; HeLoc58, 23–25 July 2016, 1♀, sweep net.

Additional material. HES, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 10 July–10 August 2003, 1♀, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 8 August–29 October 2004, 2♀♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Sandvoll, N60.779455° E10.787998°, 147 m a.s.l., 1–31 August 1992, 2♀♀, Malaise trap, leg. G. Bakkerud. Våler: Nordre Bølsjøen, Gjerdåskoia, N60.85139° E12.10317°, 396 m a.s.l., 7 July–6 August 2009, 1♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO).

Remarks. Recorded for the first time from southern Hedmark (HES).

Platypalpus longiseta (Zetterstedt, 1842)

Additional material. HES, Kongsvinger: Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 8 August–29 October 2004, 1♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Sandvoll, N60.779455° E10.787998°, 147 m a.s.l., 1–31 July 1992, 4♂♂2♀♀, Malaise trap, leg. G. Bakkerud.

Remarks. Recorded for the first time from southern Hedmark (HES).

***Platypalpus luteicornis* (Meigen, 1838)**

Material. HeLoc17*, 23 June–11 July 2016, 3♀♀; 11–21 July 2016, 1♀; 21 July–4 August 2016, 1♂, Malaise trap; HeLoc32*, 23 June–11 July 2016, 1♀, Malaise trap; HeLoc34, 3–21 June 2017, 2♂♂; 21 June–20 July 2017, 7♂♂7♀♀, light trap; HeLoc47*, 23 June–11 July 2016, 1♂1♀; 11–21 July 2016, 1♀; 21 July–4 August 2016, 2♀♀, Malaise trap.

Additional material. HES, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 22 June–10 July 2003, 28♀♀, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO); Dragonmoen, N60.19641° E12.36511°, 196 m a.s.l., 22 June–9 July 2005, 1♂9♀♀, Malaise trap, leg. K. Sund (ZMO); Femoen, N60.2033° E12.3506°, 206 m a.s.l., 21 June–18 July 2006, 13♀♀, Malaise trap, leg. K. Sund (ZMO); Fjørsjøen, N60.176827° E12.435088°, 225 m a.s.l., 6 June–2 July 2015, 2♀♀, Malaise trap, leg. K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 22 April–14 June 2004, 1♂3♀♀; 14 June–8 August 2004, 2♂♂43♀♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–30 June 1990, 2♂♂8♀♀; 1–31 July 1990, 7♀♀; 1–31 August 1990, 1♀, Malaise trap, leg. A. Bruserud. Våler: Nordre Bølsjøen, Gjerdåskoia, N60.85139° E12.10317°, 396 m a.s.l., 7 July–6 August 2009, 1♂3♀♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO).

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

***Platypalpus luteus* (Meigen, 1804)**

Material. HeLoc09, 22 July 2017, 1♂, sweep net; HeLoc17*, 11–21 July 2016, 1♂; 21 July–4 August 2016, 5♀♀; 4–17 August 2016, 1♀, Malaise trap; HeLoc34, 21 June–20 July 2017, 2♂♂; 20 July–6 August 2017, 1♀, light trap; HeLoc47*, 21 July–4 August 2016, 1♀; 4–17 August 2016, 4♀♀; 16–29 September 2016, 1♀, Malaise trap.

Additional material. HES, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 22 June–10 July 2003, 1♀, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO); Dragonmoen, N60.19641° E12.36511°, 196 m a.s.l., 22 June–

10 July 2005, 1♀, Malaise trap, leg. K. Sund (ZMO); Femoen, N60.2033° E12.3506°, 206 m a.s.l., 21 June–18 July 2006, 2♀♀, Malaise trap, leg. K. Sund (ZMO); Fjørsjøen, N60.176827° E12.435088°, 225 m a.s.l., 6 June–2 July 2015, 1♀, Malaise trap, leg. K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 14 June–8 August 2004, 7♀♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–31 August 1990, 6♀♀, Malaise trap, leg. A. Bruserud; Sandvoll, N60.779455° E10.787998°, 147 m a.s.l., 1–30 September 1993, 2♀♀, Malaise trap, leg. G. Bakkerud. Våler: Nordre Bølsjøen, Gjerdåskoia, N60.85139° E12.10317°, 396 m a.s.l., 6 May–7 June 2009, 1♀; 7 June–6 August 2009, 1♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO); Nordre Bølsjøen, Kaskonbekken, N60.85639° E12.08927°, 390 m a.s.l., 7 June–6 August 2009, 1♀; 6 August–28 October 2009, 1♂1♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO). HEN, Åmot: Deifjellia, N61.2843° E11.505°, 515 m a.s.l., 5 May–6 July 2018, 2♀♀; 6 July–22 September 2018, 2♀♀, Malaise trap, leg. K.M. Olsen.

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

***Platypalpus macula* (Zetterstedt, 1842)**

Material. HeLoc17*, 23 June–11 July 2016, 1♂; 11–21 July 2016, 1♂3♀♀; 21 July–4 August 2016, 1♀; 4–17 August 2016, 1♂, Malaise trap; HeLoc34, 21 June–20 July 2017, 6♂♂2♀♀; 20 July–6 August 2017, 8♂♂; 6 August–10 September 2017, 5♀♀, light trap; HeLoc47*, 23 June–11 July 2016, 1♀; 21 July–4 August 2016, 1♂4♀♀; 4–17 August 2016, 1♂1♀, Malaise trap; HeLoc71*, 11–21 July 2016, 1♀, Malaise trap; HeLoc74*, 11–21 July 2016, 1♂; 21 July–4 August 2016, 2♂♂; 4–17 August 2016, 1♂, Malaise trap.

Additional material. HES, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 10 July–10 August 2003, 1♂1♀, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO); Vikar, Vikeråa, N60.202567° E12.450709°, 276 m a.s.l., 29 June–12 August 2007, 1♀, Malaise trap, leg. K. Sund (ZMO); Åranstorpet, N60.202808°

E12.434014°, 300 m a.s.l., 14 June–8 August 2004, 2♂♂; 8 August–29 October 2004, 2♀♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–31 July 1990, 8♂♂2♀♀; 1–31 August 1990, 4♂♂1♀, Malaise trap, leg. A. Bruserud; Sandvoll, N60.779455° E10.787998°, 147 m a.s.l., 1–30 September 1993, 6♂♂6♀♀, Malaise trap, leg. G. Bakkerud. Våler: Nordre Bølsjøen, Gjerdåskoia, N60.85139° E12.10317°, 396 m a.s.l., 6 May–7 July 2009, 1♀; 7 July–6 August 2009, 2♂♂, Malaise trap, leg. E. Rindal & G. Søli (ZMO); Nordre Bølsjøen, Kaskonbekken, N60.85639° E12.08927°, 390 m a.s.l., 7 July–6 August 2009, 1♀; 6 August–28 October 2009, 1♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO).

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

Platypalpus maculipes (Meigen, 1822)

Material. HeLoc24, 15 August 2016, 1♀, sweep net; HeLoc25, 20 August–16 September 2016, 1♀; 16 September–5 November 2016, 1♀, light trap; HeLoc32*, 17 August–2 September 2016, 1♀; 16–29 September 2016, 1♀; 29 September–13 October 2016, 1♀, Malaise trap; HeLoc34, 10 September–20 October 2017, 2♂♂17♀♀, light trap.

Additional material. HES, Kongsvinger: Dragonmoen, N60.19641° E12.36511°, 196 m

a.s.l., 14 August–6 September 2005, 1♂, Malaise trap, leg. K. Sund (ZMO); Femoen, N60.2033° E12.3506°, 206 m a.s.l., 24 August–21 October 2006, 2♂♂1♀, Malaise trap, leg. K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 8 August–29 October 2004, 1♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–31 August 1990, 2♀♀, Malaise trap, leg. A. Bruserud; Sandvoll, N60.779455° E10.787998°, 147 m a.s.l., 1–30 September 1993, 1♀, Malaise trap, leg. G. Bakkerud.

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

Platypalpus major (Zetterstedt, 1842) (Figure 2)

Material. HeLoc17*, 11–21 July 2016, 2♀♀; 21 July–4 August 2016, 3♀♀, Malaise trap; HeLoc34, 21 June–20 July 2017, 8♀♀, light trap; HeLoc47*, 11–21 July 2016, 1♀, Malaise trap.

Additional material. HES, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 22 June–10 July 2003, 30♀♀, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO); Fjørsjøen, N60.176827° E12.435088°, 225 m a.s.l., 2 July–3 August 2015, 4♀♀, Malaise trap, leg. K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 14 June–8 August 2004, 19♀♀; 8 August–29 October 2004, 1♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker:



FIGURE 2. *Platypalpus major* (Zetterstedt, 1842) was collected both on rich fens and in other habitats in northern and southern Hedmark. Photo: Morten Angard Mjælde.

Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–31 August 1990, 7♀♀, Malaise trap, leg. A. Bruserud; Næroset, Nøsterbergvika, N60.981789° E10.773859°, 340 m a.s.l., 10 July 1991, 1♀, sweep net, leg. G. Bakkerud; Sandvoll, N60.779455° E10.787998°, 147 m a.s.l., 1–30 September 1993, 1♀, Malaise trap, leg. G. Bakkerud; Veldre, N60.917283° E10.890533°, 311 m a.s.l., 10 July 1991, 2♀♀, sweep net, leg. G. Bakkerud. **HEN**, Åmot: Deifjellia, N61.2843° E11.505°, 515 m a.s.l., 5 May–6 July 2018, 6♀♀, Malaise trap, leg. K.M. Olsen.

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

Platypalpus minutus (Meigen, 1804)

Material. HeLoc19, 21 July 2017, 1♀, sweep net; HeLoc34, 21 June–20 July 2017, 1♂, light trap.

Additional material. **HES**, Kongsvinger: Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 22 April–14 June 2004, 1♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–31 July 1990, 3♀♀, Malaise trap, leg. A. Bruserud; Ringsaker: Dæli, N60.796244° E10.772216°, 201 m a.s.l., 24 June 1991, 1♀, sweep net, leg. G. Bakkerud.

Remarks. Recorded for the first time from southern Hedmark (HES).

Platypalpus nigratarsis Zetterstedt, 1838

Material. HeLoc05, 23 July 2017, 1♀, sweep net; HeLoc08, 22 July 2017, 1♀, sweep net; HeLoc24, 15 August 2016, 1♂, sweep net; HeLoc25, 20 August–16 September 2016, 1♂1♀, light trap; HeLoc32*, 23 June–11 July 2016, 1♂; 2–16 September 2016, 1♂, Malaise trap; HeLoc34, 21 June–20 July 2017, 1♂; 20 July–6 August 2017, 1♂4♀♀; 6 August–10 September 2017, 1♂4♀♀; 10 September–20 October 2017, 1♀, light trap; HeLoc45*, 17 August–2 September 2016, 3♀♀, Malaise trap; HeLoc59, 24 July 2017, 1♀, light trap; HeLoc63, 17 August 2016, 3♀♀, sweep net; HeLoc69, 16 August 2016, 1♂1♀, sweep net; HeLoc74*, 23 June–11 July 2016, 1♀; 21 July–4 August 2016, 1♂, Malaise trap; 1 June–15 July 2016, 1♂, 15 July–18 September 2016,

1♂, window trap; HeLoc75*, 23 June–11 July 2016, 1♂; 21 July–4 August 2016, 3♀♀, Malaise trap; HeLoc76*, 17 August 2016, 1♀, sweep net; HeLoc78*, 23 June–11 July 2016, 1♂; 11–21 July 2016, 1♂; 4–17 August 2016, 2♀♀; 17 August–2 September 2016, 1♂1♀; 16–29 September 2016, 1♀, Malaise trap; HeLoc88, 25 July 2017, 1♂, sweep net; HeLoc92*, 17 August 2016, 1♀, sweep net.

Additional material. **HES**, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 22 June–10 July 2003, 1♂, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO); Dragonmoen, N60.19641° E12.36511°, 196 m a.s.l., 14 August–6 September 2005, 16♂♂65♀♀, Malaise trap, leg. K. Sund (ZMO); Femoen, N60.2033° E12.3506°, 206 m a.s.l., 21 June–18 July 2006, 13♂♂12♀♀, Malaise trap, leg. K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 8 August–29 October, 4♂♂7♀♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–31 August 1990, 15♂♂7♀♀, Malaise trap, leg. A. Bruserud; Sandvoll, N60.779455° E10.787998°, 147 m a.s.l., 1–30 September 1993, 1♂1♀, Malaise trap, leg. G. Bakkerud. Våler: Nordre Bølsjøen, Gjerdåskoia, N60.85139° E12.10317°, 396 m a.s.l., 7 July–6 August 2009, 7♂♂14♀♀; 6 August–28 October 2009, 12♂♂27♀♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO).

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

Platypalpus nigrosetosus (Strobl, 1893)

Additional material. **HES**, Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–31 May 1990, 3♂♂; 1–31 June 1990, 6♀♀; 1–31 July 1990, 8♀♀, Malaise trap, leg. A. Bruserud. Våler: Nordre Bølsjøen, Gjerdåskoia, N60.85139° E12.10317°, 396 m a.s.l., 7 July–6 August 2009, 1♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO).

Remarks. Recorded for the first time from southern Hedmark (HES).

Platypalpus nonstriatus (Strobl, 1901)

Material. HeLoc74*, 21 July–4 August 2016, 1♀; 4–17 August 2016, 1♀, Malaise trap.

Additional material. HES, Våler: Nordre Bølsjøen, Gjerdåskoia, N60.85139° E12.10317°, 396 m a.s.l., 6 May–7 June 2009, 1♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO); Nordre Bølsjøen, Kaskonbekken, N60.85639° E12.08927°, 390 m a.s.l., 6 August–28 October 2009, 1♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO).

Remarks. New to Norway. An uncommon and distinctive yellow species recently also reported from Sweden (Hellqvist *et al.* 2015).

Platypalpus notatus (Meigen, 1822)

Material. HeLoc06, 23 July 2017, 2♀♀, sweep net; HeLoc09, 22 July 2017, 1♀, sweep net; HeLoc10, 22 July 2017, 2♂♂, sweep net; HeLoc12, 21 July 2017, 2♂♂5♀♀, sweep net; HeLoc13, 21 July 2017, 2♂♂4♀♀, sweep net / light trap; HeLoc18, 21 July 2017, 1♂, sweep net; HeLoc19, 21 July 2017, 1♀, sweep net; HeLoc29, 24 July 2017, 1♂4♀♀; 18 September 2016, 1♂1♀, sweep net; HeLoc34, 21 June–20 July 2017, 1♀; 20 July–6 August 2017, 1♂, light trap; HeLoc35, 29–31 July 2016, 3♂♂2♀♀, light trap.

Additional material. HES, Kongsvinger: Dragonmoen, N60.19641° E12.36511°, 196 m a.s.l., 14 August–6 September 2005, 2♂♂5♀♀, Malaise trap, leg. K. Sund (ZMO); Fjørsjøen, N60.176827° E12.435088°, 225 m a.s.l., 2 July–3 August 2015, 1♂3♀♀, Malaise trap, leg. K. Sund (ZMO).

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

Platypalpus ochrocera (Collin, 1961)

Material. HeLoc10, 22 July 2017, 1♂1♀, sweep net.

Remarks. Recorded for the first time from southern Hedmark (HES).

Platypalpus pallidiventris (Meigen, 1822)

Material. HeLoc19, 21 July 2017, 1♀, sweep net; HeLoc25, 20 August–16 September 2016, 1♀, light trap; HeLoc34, 21 June–20 July 2017, 1♂, light trap.

Additional material. HES, Kongsvinger: Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 8 August–29 October 2004, 1♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Helgøya,

Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–31 August 1990, 4♀♀, Malaise trap, leg. A. Bruserud; Sandvoll, N60.779455° E10.787998°, 147 m a.s.l., 1–30 September 1993, 1♀, Malaise trap, leg. G. Bakkerud.

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

Platypalpus parvilamellatus Jonassen, 2021

Material. HeLoc34, 20 July–6 August 2017, 1♂, light trap; HeLoc47*, 23 June–11 July 2016, 1♂, Malaise trap; HeLoc74*, 23 June–11 July 2016, 2♂♂; 11–21 July 2016, 1♂; 21 July–4 August 2016, 2♂♂, Malaise trap.

Remarks. The species was recently described partly based on material collected in Finnmark in 2010 during the Finnmark survey, partly on material from Finland (Jonassen *et al.* 2021). The material from the Hedmarksprosjektet was listed as additional material. The species is similar to the common *P. confinis*, but has a much broader clypeus, a more curved mid tibia and a strikingly smaller hypopogium.

Platypalpus pseudofulvipes (Frey, 1909)

Material. HeLoc19, 21 July 2017, 1♂, sweep net.

Platypalpus rapidoides Chvála, 1975

Additional material. HEN, Åmot: Deifjellia, N61.2843° E11.505°, 515 m a.s.l., 5 May–6 July 2018, 1♀, Malaise trap, leg. K.M. Olsen.

Remarks. Recorded for the first time from northern Hedmark (HEN).

Platypalpus scandinavicus Chvála, 1972

Material. HeLoc17*, 11–21 July 2016, 2♂♂3♀♀; 21 July–4 August 2016, 2♂♂6♀♀; 4–17 August 2016, 1♀, Malaise trap; HeLoc34, 21 June–20 July 2017, 1♂, light trap; HeLoc47*, 21 July–4 August 2016, 1♂; 4–17 August 2016, 2♀♀, Malaise trap; HeLoc74*, 21 July–4 August 2016, 1♀; 17 August–2 September 2016, 1♀, Malaise trap.

Additional material. HES, Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–31 June 1990, 1♀; 1–31 July 1990, 1♂4♀♀, Malaise trap, leg. A. Bruserud; Sandvoll,

N60.779455° E10.787998°, 147 m a.s.l., 1–31 July 1992, 4♂♂13♀♀, Malaise trap, leg. G. Bakkerud. Våler: Nordre Bølsjøen, Gjerdåskoia, N60.85139° E12.10317°, 396 m a.s.l., 6 May–7 June 2009, 1♀; 7 June–6 August 2009, 1♀; 6 August–28 October 2009, 1♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO); Nordre Bølsjøen, Kaskonbekken, N60.85639° E12.08927°, 390 m a.s.l., 7 June–6 August 2009, 1♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO).

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

Platypalpus stigmatellus (Zetterstedt, 1842)

Material. HeLoc03, 23 July 2017, 1♂2♀♀, sweep net; HeLoc04, 22 July 2017, 2♀♀, sweep net; HeLoc11, 21 July 2017, 2♂♂3♀♀, sweep net; HeLoc17*, 23 June–11 July 2016, 2♂♂, Malaise trap; HeLoc19, 21 July 2017, 1♀, sweep net; HeLoc25, 20 August–16 September 2016, 1♂2♀♀, light trap; HeLoc34, 21 June–20 July 2017, 1♀; 20 July–6 August 2017, 2♂♂1♀; 6 August–10 September 2017, 4♂♂11♀♀, light trap; HeLoc37*, 27 July 2016, 3♂♂4♀♀, sweep net; HeLoc38, 29 July 2016, 2♂♂, sweep net; HeLoc45*, 11–21 July 2016, 1♂1♀, Malaise trap; HeLoc47*, 11–21 July 2016, 1♂2♀♀; 21 July–4 August 2016, 2♂♂1♀; 4–17 August 2016, 1♂, Malaise trap; HeLoc51, 18 August 2016, 2♂♂2♀♀, sweep net; HeLoc52, 17 August 2016, 2♂♂3♀♀, sweep net; HeLoc64*, 28 July 2016, 5♂♂3♀♀, sweep net; HeLoc70*, 25 July 2017, 8♂♂14♀♀; 16 August 2016, 1♂, sweep net; HeLoc71*, 21 July–4 August 2016, 1♂2♀♀; 4–17 August 2016, 1♂; 17 August–2 September 2016, 1♂, Malaise trap; HeLoc74*, 23 June–11 July 2016, 3♀♀; 11–21 July 2016, 8♂♂25♀♀; 21 July–4 August 2016, 48♂♂53♀♀; 4–17 August 2016, 5♂♂7♀♀; 17 August–2 September 2016, 2♀♀, Malaise trap; 26 July 2016, 1♂, sweep net; 15 July–18 September 2016, 2♂♂1♀, window trap; HeLoc75*, 11–21 July 2016, 1♀; 21 July–4 August 2016, 5♂♂6♀♀; 4–17 August 2016, 3♀♀, Malaise trap; 2 June–16 July, 1♂; 16 July–19 September 2016, 3♂♂2♀♀, window trap; HeLoc78*, 11–21 July 2016, 2♂♂1♀; 21 July–4 August 2016, 14♂♂22♀♀; 17 August–2 September 2016, 1♀; 2–16 September 2016, 1♀,

Malaise trap; HeLoc86, 24 July 2017, 1♂1♀, sweep net; HeLoc87, 26 July 2017, 1♂3♀♀, sweep net; HeLoc88, 25 July 2017, 2♂♂3♀♀, sweep net; HeLoc91, 24–25 July 2017, 4♂♂3♀♀, yellow pan trap; HeLoc92*, 17 August 2016, 1♂1♀, sweep net.

Additional material. HES, Kongsvinger: Femoen, N60.2033° E12.3506°, 206 m a.s.l., 24 August–21 October 2006, 1♀, Malaise trap, leg. K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 14 June–8 August 2004, 1♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–31 August 1990, 18♂♂, Malaise trap, leg. A. Bruserud; Sandvoll, N60.779455° E10.787998°, 147 m a.s.l., 1–30 September 1993, 4♂♂3♀♀, Malaise trap, leg. G. Bakkerud. Våler: Nordre Bølsjøen, Gjerdåskoia, N60.85139° E12.10317°, 396 m a.s.l., 6 May–7 June 2009, 6♂♂20♀♀; 7 June–6 August 2009, 2♀♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO); Nordre Bølsjøen, Kaskonbekken, N60.85639° E12.08927°, 390 m a.s.l., 7 June–6 August 2009, 2♂♂6♀♀; 6 August–28 October 2009, 1♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO). HEN, Åmot: Deifjellia, N61.2843° E11.505°, 515 m a.s.l., 5 May–6 July 2018, 5♂♂2♀♀; 6 July–22 September 2018, 1♂1♀, Malaise trap; N61.2838° E11.5016°, 395–470 m a.s.l., 6 July 2018, 1♀, sweep net, leg. K.M. Olsen.

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

Platypalpus subbrevis (Frey, 1913)

Material. HeLoc71*, 23 June–11 July 2016, 2♀♀; 21 July–4 August 2016, 4♀♀; 4–17 August 2016, 1♀, Malaise trap.

Remarks. Recorded for the first time from northern Hedmark (HEN). *Platypalpus subbrevis* belongs to a rather ambiguous group of species - the *brevicornis* group of Chvála (1975). The members of this group normally occur in small numbers, thus making their intraspecific variations not yet fully understood, as there might be some cryptic species involved. The specimens from Engerdal, however, seem to fit the description given by Chvála (1975) very well. It was reported as Norwegian from Ostøya in the Oslofjord by

Jonassen (2009). Other than that, it is known from Finnish specimens only (Chvála 1975). To our knowledge, no males of this species have been reported.

***Platypalpus tuomikoskii* Chvála, 1972**

Material. HeLoc17*, 23 June–11 July 2016, 1♂, Malaise trap.

Additional material. HES, Våler: Nordre Bølsjøen, Gjerdåskoia, N60.85139° E12.10317°, 396 m a.s.l., 7 June–6 August 2009, 1♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO).

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

***Platypalpus unguiculatus* (Zetterstedt, 1838)**

Material. HeLoc37*, 27 July 2016, 3♂♂2♀♀, sweep net; HeLoc47*, 4–17 August 2016, 1♀, Malaise trap; HeLoc63, 17 August 2016, 1♂, sweep net; HeLoc70*, 25 July 2016, 1♀, sweep net; HeLoc71*, 4–17 August 2016, 1♀; 17 August–2 September 2016, 1♀, Malaise trap; HeLoc74*, 11–21 July 2016, 3♀♀; 21 July–4 August 2016, 18♀♀; 4–17 August 2016, 5♀♀; 17 August–2 September 2016, 18♀♀; 2–16 September 2016, 8♀♀; 16–29 September 2016, 1♀, Malaise trap; 26 July 2016, 1♀, sweep net; HeLoc78*, 11–21 July 2016, 1♀, Malaise trap.

Remarks. Recorded for the first time from northern Hedmark (HEN).

***Platypalpus verralli* (Collin, 1926)**

Material. HeLoc13, 21 July 2017, 1♀, sweep net / light trap; HeLoc34, 3–21 June 2017, 1♀; 21 June–20 July 2017, 1♀, light trap; HeLoc71*, 11–21 July 2016, 1♀, Malaise trap.

Additional material. HES, Kongsvinger: Dragonmoen, N60.19641° E12.36511°, 196 m a.s.l., 22 June–9 July 2005, 1♀, Malaise trap, leg. K. Sund (ZMO); Femoen, N60.2033° E12.3506°, 206 m a.s.l., 21 June–18 July 2006, 3♀♀, Malaise trap, leg. K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 22 April–14 June 2004, 1♂, Malaise trap, leg. K. Sund (ZMO).

Remarks. Recorded for the first time from northern Hedmark (HEN).

***Platypalpus zetterstedti* Chvála, 1971**

Material. HeLoc75*, 11–21 July 2016, 1♀; 21 July–4 August 2016, 1♀, Malaise trap.

Remarks. Recorded for the first time from northern Hedmark (HEN).

***Platypalpus* sp. A**

Material. HeLoc71*, 2–16 September 2016, 1♀, Malaise trap.

Remarks. The specimen represents an unknown and possibly undescribed species of the *brevicornis*-group, having a rather large, blunt tibial spur, and with the unique combination of narrow jowls and several bristles on humeri.

***Symbalophthalmus dissimilis* (Fallén, 1815)**

Material. HeLoc34, 20 July–6 August 2017, 1♀, light trap.

Additional material. HES, Kongsvinger: Dragonmoen, N60.19641° E12.36511°, 196 m a.s.l., 14 August–6 September 2005, 1♀, Malaise trap, leg. K. Sund (ZMO).

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

***Symbalophthalmus fuscitarsis* (Zetterstedt, 1859)**

Additional material. HES, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 22 June–10 July 2003, 3♂♂6♀♀, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO). Ringsaker: Veldre, N60.917283° E10.890533°E, 311 m a.s.l., 9 July 1991, 1♀, sweep net, leg. G. Bakkerud.

Remarks. Recorded for the first time from southern Hedmark (HES).

***Syndyas nigripes* (Zetterstedt, 1842)**

Material. HeLoc04, 22 July 2017, 1♀, sweep net; HeLoc07, 22 July 2017, 1♀, sweep net.

Remarks. Recorded for the first time from southern Hedmark (HES).

***Tachydromia aemula* (Loew, 1864)**

Material. HeLoc34, 6 August–10 September 2017, 1♀, light trap.

Additional material. HES, Ringsaker: Sandvoll, N60.779455° E10.787998°, 147 m a.s.l., 17 September–1 October 1993, 1♂, Malaise trap,

leg. G. Bakkerud.

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

Tachydromia connexa Meigen, 1822

Additional material. HES, Eidskog: Magnor motorcrossbane, N59.9535° E12.1754°, 135 m a.s.l., 4 June–26 July 2018, 1♀, Malaise trap, leg. K.M. Olsen & A. Thylén.

Remarks. Recorded for the first time from southern Hedmark (HES).

Tachydromia umbrarum Haliday, 1833

Material. HeLoc48, 24 July 2017, 1♀, sweep net.

Additional material. HES, Kongsvinger: Dragonmoen, N60.19641° E12.36511°, 196 m a.s.l., 22 June–9 July 2005, 1♀, Malaise trap, leg. K. Sund (ZMO); Fjørsjøen, N60.176827° E12.435088°, 225 m a.s.l., 2 July–3 August 2015, 1♀, Malaise trap, leg. K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 14 June–8 August 2004, 3♀♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Sandvoll, N60.779455° E10.787998°, 147 m a.s.l., 1–31 July 1993, 3♂♂, Malaise trap, leg. G. Bakkerud.

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

Tachypeza fennica Tuomikoski, 1932

Additional material. HES, Kongsvinger: Vikar, Vikeraa, N60.202567° E12.450709°, 276 m a.s.l., 29 June–12 August 2007, 1♀, Malaise trap, leg. K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 14 June–8 August 2004, 1♀, Malaise trap, leg. K. Sund (ZMO).

Remarks. Recorded for the first time from southern Hedmark (HES).

Tachypeza heeri Zetterstedt, 1838

Additional material. HES, Våler: Nordre Bølsjøen, Kaskonbekken, N60.85639° E12.08927°, 390 m a.s.l., 7 July–6 August 2009, 4♂♂, Malaise trap, leg. E. Rindal & G. Søli (ZMO). HEN, Åmot: Deifjellia, N61.2843° E11.505°, 515 m a.s.l., 5 May–6 July 2018, 1♂, Malaise trap, leg. K.M. Olsen.

Remarks. Recorded for the first time from

southern and northern Hedmark (HES and HEN).

Tachypeza nubila (Meigen, 1803)

Material. HeLoc17*, 23 June–11 July 2016, 2♂♂1♀; 11–21 July 2016, 1♂3♀♀; 21 July–4 August 2016, 2♂♂; 4–17 August 2016, 1♂1♀; 17 August–2 September 2016, 1♀; 2–16 September 2016, 1♂, Malaise trap; HeLoc32*, 23 June–11 July 2016, 6♂♂2♀♀; 11–21 July 2016, 4♂♂5♀♀; 21 July–4 August 2016, 7♀♀; 4–17 August 2016, 2♂♂8♀♀; 17 August–2 September 2016, 1♂5♀♀; 2–16 September 2016, 1♂2♀♀; 16–29 September 2017, 2♀♀, Malaise trap; 15 August–17 September 2016, 1♂3♀♀, window trap; HeLoc34, 20 July–6 August 2017, 1♂2♀♀, light trap; HeLoc36*, 3 June–25 July 2017, 1♂, Malaise trap; HeLoc45*, 11–21 July 2016, 1♀; 21 July–4 August 2016, 1♂; 4–17 August 2016, 2♀♀; 17 August–2 September 2016, 1♀; 16–29 September 2017, 1♀, Malaise trap; HeLoc47*, 23 June–11 July 2016, 3♂♂2♀♀; 11–21 July 2016, 8♂♂5♀♀; 21 July–4 August 2016, 4♂♂6♀♀; 4–17 August 2016, 1♂5♀♀; 17 August–2 September 2016, 1♀; 2–16 September 2016, 1♂2♀♀, Malaise trap; HeLoc71*, 23 June–11 July 2016, 1♂1♀; 11–21 July 2016, 1♂1♀; 21 July–4 August 2016, 3♂♂1♀; 4–17 August 2016, 3♂♂3♀♀; 17 August–2 September 2016, 1♂2♀♀, Malaise trap; HeLoc74*, 9–23 June 2016, 1♀; 23 June–11 July 2016, 5♂♂; 11–21 July 2016, 5♂♂; 21 July–4 August 2016, 11♂♂1♀; 4–17 August 2016, 9♂♂2♀♀; 17 August–2 September 2016, 1♂3♀♀, Malaise trap; 15 July–18 September 2016, 2♂♂, window trap; HeLoc75*, 23 June–11 July 2016, 1♂; 11–21 July 2016, 1♂; 21 July–4 August 2016, 3♀♀; 4–17 August 2016, 1♂5♀♀; 17 August–2 September 2016, 1♂6♀♀; 2–16 September 2016, 2♂♂, Malaise trap; 16 July–19 September 2016, 11♂♂6♀♀; 19 September–27 October 2016, 1♀, window trap; HeLoc78*, 23 June–11 July 2016, 1♀; 11–21 July 2016, 3♂♂2♀♀; 21 July–4 August 2016, 1♂4♀♀; 4–17 August 2016, 1♂1♀; 17 August–2 September 2016, 4♂♂3♀♀; 2–16 September 2016, 3♂♂1♀; 16–29 September 2017, 1♂, Malaise trap.

Additional material. HES, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 22 June–10 July 2003, 1♂1♀, Malaise

trap, leg. L.O. Hansen & K. Sund (ZMO); Dragonmoen, N60.19641° E12.36511°, 196 m a.s.l., 14 August–6 September 2005, 3♂♂3♀♀, Malaise trap, leg. K. Sund (ZMO); Femoen, N60.2033° E12.3506°, 206 m a.s.l., 21 June–18 July 2006, 3♂♂3♀♀, Malaise trap, leg. K. Sund (ZMO); Fjørsjøen, N60.176827° E12.435088°, 225 m a.s.l., 2 July–3 August 2015, 1♂1♀, Malaise trap, leg. K. Sund (ZMO); Viken, Vikeråa, N60.202567° E12.450709°, 276 m a.s.l., 29 June–12 August 2007, 1♂, Malaise trap, leg. K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 14 June–8 August 2004, 16♂♂2♀♀; 8 August–29 October 2004, 7♂♂3♀♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–31 August 1990, 8♂♂2♀♀, Malaise trap, leg. A. Bruserud; Sandvoll, N60.779455° E10.787998°, 147 m a.s.l., 1–30 September 1993, 1♂, Malaise trap, leg. G. Bakkerud. Våler: Nordre Bølsjøen, Gjerdåskoia, N60.85139° E12.10317°, 396 m a.s.l., 6 May–7 June 2009, 3♂♂7♀♀; 7 June–6 August 2009, 3♂♂2♀♀; 6 August–28 October 2009, 2♂♂2♀♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO); Nordre Bølsjøen, Kaskonbekken, N60.85639° E12.08927°, 390 m a.s.l., 7 June–6 August 2009, 2♀♀; 6 August–28 October 2009, 1♂, Malaise trap, leg. E. Rindal & G. Søli (ZMO). **HEN**, Åmot: Deifjellia, N61.2843° E11.505°, 515 m a.s.l., 5 May–6 July 2018, 3♂♂; 6 July–22 September 2018, 1♂, Malaise trap, leg. K.M. Olsen.

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

Tachypeza truncorum (Fallén, 1815)

Material. HeLoc17*, 11–21 July 2016, 2♀♀; 21 July–4 August 2016, 1♂1♀; 17 August–2 September 2016, 1♀, Malaise trap; HeLoc32*, 9–23 June 2016, 1♀; 23 June–11 July 2016, 1♂; 11–21 July 2016, 1♀, Malaise trap; HeLoc45*, 24 June–11 July 2016, 1♀, Malaise trap; HeLoc47*, 23 June–11 July 2016, 1♂1♀, 11–21 July 2016, 2♂♂2♀♀; 1 July–4 August 2016, 2♂♂1♀; 4–17 August 2016, 2♀♀, Malaise trap; HeLoc71*, 23 June–11 July 2016, 1♂1♀; 21 July–4 August 2016, 1♀, Malaise trap; HeLoc75*, 17 August–2 September 2016, 1♂, Malaise trap.

Additional material. **HES**, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 22 June–10 July 2003, 3♂♂2♀♀, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO); Dragonmoen, N60.19641° E12.36511°, 196 m a.s.l., 14 August–6 September 2005, 1♀, Malaise trap, leg. K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 14 June–8 August 2004, 1♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Sandvoll, N60.779455° E10.787998°, 147 m a.s.l., 1–31 July 1992, 1♂, Malaise trap, leg. G. Bakkerud. Eidskog: Magnor motorcrossbane, N59.9535° E12.1754°, 135 m a.s.l., 4 June–26 July 2018, 2♂♂, Malaise trap, leg. K.M. Olsen & A. Thylén. Våler: Nordre Bølsjøen, Gjerdåskoia, N60.85139° E12.10317°, 396 m a.s.l., 7 June–6 August 2009, 1♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO). **HEN**, Åmot: Deifjellia, N61.2843° E11.505°, 515 m a.s.l., 5 May–6 July 2018, 1♀, Malaise trap, leg. K.M. Olsen.

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

Trichina bilobata Collin, 1926

Material. HeLoc09, 22 July 2017, 1♀, sweep net; HeLoc17*, 21 July–4 August 2016, 2♂♂8♀♀, Malaise trap; HeLoc32*, 23 June–11 July 2016, 1♂, Malaise trap; HeLoc34, 21 June–20 July 2017, 19♂♂7♀♀; 20 July–6 August 2017, 1♂1♀; 6 August–10 September 2017, 1♂, light trap.

Additional material. **HES**, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 22 June–10 July 2003, 1♂1♀, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 14 June–8 August 2004, 5♂♂10♀♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–31 July 1990, 4♀♀, Malaise trap, leg. A. Bruserud. Våler: Nordre Bølsjøen, Gjerdåskoia, N60.85139° E12.10317°, 396 m a.s.l., 7 June–6 August 2009, 2♂♂, Malaise trap, leg. E. Rindal & G. Søli (ZMO).

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

***Trichina clavipes* Meigen, 1830**

Material. HeLoc06, 23 July 2017, 1♀, sweep net; HeLoc10, 22 July 2017, 1♂, sweep net; HeLoc12, 21 July 2017, 1♀, sweep net; HeLoc13, 21 July 2017, 2♂♂, sweep net / light trap; HeLoc34, 21 June–20 July 2017, 2♂♂; 20 July–6 August 2017, 4♂♂6♀♀; 6 August–10 September 2017, 2♀♀, light trap; HeLoc43, 24 July 2017, 3♀♀, sweep net; HeLoc47*, 4–17 August 2016, 2♀♀, Malaise trap; HeLoc78*, 23 June–11 July 2016, 1♂, Malaise trap.

Additional material. HES, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 10 July–10 August 2003, 3♂♂, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO); Fjørsjøen, N60.176827° E12.435088°, 225 m a.s.l., 6 June–2 July 2015, 1♂, Malaise trap, leg. K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 14 June–8 August 2004, 2♂♂, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Sandvoll, N60.779455° E10.787998°, 147 m a.s.l., 1–31 July 1992, 1♂5♀♀, Malaise trap, leg. G. Bakkerud. Våler: Nordre Bølsjøen, Gjerdåskoia, N60.85139° E12.10317°, 396 m a.s.l., 7 June–6 August 2009, 2♂♂1♀, Malaise trap, leg. E. Rindal & G. Søli (ZMO).

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

***Trichina elongata* Haliday, 1833**

Material. HeLoc09, 22 July 2017, 1♂, sweep net; HeLoc17*, 11–21 July 2016, 1♂1♀, Malaise trap; HeLoc34, 21 June–20 July 2017, 2♂♂3♀♀; 20 July–6 August 2017, 1♂4♀♀; 6 August–10 September 2017, 1♀; 10 September–20 October 2017, 1♂, light trap; HeLoc47*, 11–21 July 2016, 2♂♂1♀; 4–17 August 2016, 1♀, Malaise trap; HeLoc74*, 11–21 July 2016, 1♀; 21 July–4 August 2016, 1♀, Malaise trap; HeLoc75*, 4–17 August 2016, 1♀, Malaise trap; HeLoc78*, 11–21 July 2016, 1♀; 4–17 August 2016, 1♀, Malaise trap; HeLoc87, 26 July 2017, 1♀, sweep net.

Additional material. HES, Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–31 July 1990, 5♀♀; 1–31 August 1990, 1♀, Malaise trap, leg. A. Bruserud.

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

***Trichina opaca* Loew, 1864**

Additional material. HES, Kongsvinger: Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 14 June–8 August 2004, 1♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–31 May 1990, 1♂; 1–31 September 1990, 1♂, Malaise trap, leg. A. Bruserud.

Remarks. Recorded for the first time from southern Hedmark (HES).

***Trichinomyia flavipes* (Meigen, 1830)**

Additional material. HES, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 10 August–30 September 2003, 1♀, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO); Vikar, Vikeråa, N60.202567° E12.450709°, 276 m a.s.l., 12 August–26 September 2007, 1♀, Malaise trap, leg. K. Sund (ZMO); Åranstorpet, N60.202808° E12.434014°, 300 m a.s.l., 8 August–29 October 2004, 1♀, Malaise trap, leg. K. Sund (ZMO). Ringsaker: Helgøya, Eiksåsen, N60.736872° E10.994616°, 285 m a.s.l., 1–31 August 1990, 1♂1♀; 1–31 September 1990, 1♂7♀♀, Malaise trap, leg. A. Bruserud.

Remarks. Recorded for the first time from southern Hedmark (HES).

***Trichinomyia fuscipes* (Zetterstedt, 1838)**

Material. HeLoc47*, 9–23 June 2016, 1♀, 23 June–11 July 2016, 3♀♀, Malaise trap; HeLoc78*, 23 June–1 July 2016, 1♂, Malaise trap.

Additional material. HES, Kongsvinger: Abborhøgda, N60.183802° E12.459788°, 326 m a.s.l., 22 June–10 July 2003, 4♀♀, Malaise trap, leg. L.O. Hansen & K. Sund (ZMO).

Remarks. Recorded for the first time from southern and northern Hedmark (HES and HEN).

The Malaise trap catches

A total of 2087 specimens of Hybotidae belonging to 54 species were taken in the Malaise traps. There were large differences in the number of specimens and species collected in the different traps. Most specimens, 599, belonging to 29 species were collected in the Malaise trap at Åsen;

at Sekserbua NE 445 specimens belonging to 29 species were collected, at Brydalskjølen 297 specimens belonging to 18 species, at Kildesaga 266 specimens belonging to 29 species and at Bjørvollen 218 specimens belonging to 17 species were found. In the remaining traps less than 200 specimens were collected.

A total of 16 species constituted more than 1% of the Malaise trap material, Table 1. Of *Platypalpus ecalceatus* all together 403 specimens were collected constituting 19.3% of the material. *Platypalpus stigmatellus* ranged second with 223 specimens (10.7%), *Tachypeza nubila* third with 202 specimens (9.7%), *Platypalpus candicans* fourth with 143 specimens (6.9%), *Bicellaria austriaca* fifth with 134 specimens (6.4%), *Bicellaria sulcata* and *Hybos grossipes* sixth with 116 specimens (5.6%) and *Euthyneura myrtilli* eighth with 115 specimens (5.5%) of the material. *Platypalpus borealpinus*, *Bicellaria intermedia*, *Platypalpus confinis*, *Bicellaria nigra*, *Platypalpus brachystylus*, *Leptopeza borealis*, *Platypalpus unguiculatus* and *Tachypeza truncorum* were each taken in 82 to 24 specimens and constituted from

3.9% to 1.2% of the material. The remaining 38 species were each taken in less than 21 specimens.

In the four Malaise traps situated below 650 m a.s.l. no less than 43 species were collected, in the two traps situated between 650 and 750 m a.s.l., 35 species were collected, while in the two traps situated above 750 m a.s.l. only 23 species were collected. Most of the 16 most abundant species were collected in most of the Malaise traps between 250–780 m a.s.l. However, *Platypalpus brachystylus* and *Platypalpus unguiculatus* were not collected in the Malaise traps situated below 500 m a.s.l., while *Bicellaria intermedia* and *Leptopeza borealis* were not collected in the traps situated above 700 m a.s.l.

Discussion

The project gives new data on the distribution and occurrence of many of the species. *Platypalpus nonstriatus* is a rare species distributed in Sweden, Finland, Russian Carelia, Estonia and Austria, and is new to Norway (Chvála 1975).

TABLE 1. Number of specimens as males/females of the most abundant Hybotidae species collected in the Malaise traps. Malaise trap no. 1 = Kildesaga, no. 2 = Nabbtjern, no. 3 = Jøgåsmyra, no. 4 = Sekserbua NE, no. 5 = Ulvåkjølen- Sundsetra, no. 6 = Åsen, no. 7 = Bjørvollen, no. 8 = Brydalskjølen.

Species / Trap no.	1	2	3	4	5	6	7	8	Total	%
<i>Platypalpus ecalceatus</i>	-/2	-/1	-	-/33	-/24	2/138	2/124	-/77	4/399	19.31
<i>Platypalpus stigmatellus</i>	2/-	-	1/1	4/3	3/2	61/90	5/10	16/25	92/131	10.69
<i>Tachypeza nubila</i>	7/6	14/31	1/5	17/21	9/8	31/7	6/14	13/12	98/104	9.68
<i>Platypalpus candicans</i>	-/45	-/3	-	-/4	-/8	-/4	-/10	-/69	-/143	6.85
<i>Bicellaria austriaca</i>	1/1	-	-	45/59	1/1	8/13	-	2/3	57/77	6.42
<i>Bicellaria sulcata</i>	1/2	-	-	23/49	1/1	4/10	-	2/23	31/85	5.56
<i>Hybos grossipes</i>	25/28	5/8	-	19/21	-	1/1	-	3/5	53/63	5.56
<i>Euthyneura myrtilli</i>	-/4	2/5	2/9	1/7	1/8	25/41	1/2	-/7	32/83	5.51
<i>Platypalpus borealpinus</i>	2/5	-/2	1/-	13/24	3/7	1/12	3/7	1/1	24/58	3.93
<i>Bicellaria intermedia</i>	10/13	2/10	-/2	11/23	-	-/2	-	-	23/50	3.50
<i>Platypalpus confinis</i>	1/-	-	-	3/-	4/5	30/23	-/5	-	38/33	3.40
<i>Bicellaria nigra</i>	3/29	-	-	-/2	-/3	1/-	1/2	-	5/36	1.96
<i>Platypalpus brachystylus</i>	-	-	-/1	-/1	1/4	1/3	7/4	7/8	16/21	1.77
<i>Leptopeza borealis</i>	1/2	1/-	-	1/4	1/-	4/20	-	-	8/26	1.63
<i>Platypalpus unguiculatus</i>	-	-	-	-/1	-/2	-/30	-	-/1	-/34	1.63
<i>Tachypeza truncorum</i>	1/4	1/2	-/1	5/6	1/2	-	1/-	-	9/15	1.15

The recently described *Drapetis abrollensis* has for a while been known to occur in Norway, but is here reported for the first time. *Oedalea freyi* was recently recorded for the first time in Norway from Finnmark by Jonassen *et al.* (2013) and is new to southern Norway. In addition, 87 species are recorded for the first time from southern and/or northern Hedmark. The number of species recorded from southern and northern Hedmark now stands at 79 and 75 species, respectively.

A total of 57 species were collected on the rich fens, of which 8 species were taken only on that type of fens. In the Malaise traps 54 species were caught of which 16 species constituted more than 1% of the total material. The most abundant species are euryoecius, able to live in a variety of habitats. According to Chvála (1975) *Platypalpus ecalceatus* is the most common *Platypalpus* species in central and northern Fennoscandia, where females are found on ground vegetation and on leaves of bushes. *Platypalpus stigmatellus* is also a common species in northern Fennoscandia. The adults prefer shaded, humid places and are flying slowly above or resting on the vegetation (Chvála 1975). *Tachypeza nubila* and *Platypalpus candicans* are both very common in southern and central parts of Fennoscandia; the latter prefer shaded and humid places where it lives on the ground vegetation (Chvála 1975). Both *Bicellaria austriaca* and *B. sulcata* have been recorded from most districts in Norway, even at the extreme north. Most members of this genus are very abundant in all kinds of biotopes (Chvála 1983). In Norway *Hybos grossipes* is widespread all over the country, and *Euthyneura myrtilli* is also common throughout Fennoscandia including the extreme north (Chvála 1983).

It is generally assumed that the species richness of insects is highest in mires with a high tropic status and that it generally declines from eutrophic to oligotrophic mires, as has been demonstrated for Tipuloidea (e.g. Salmela & Ilmonen 2005). It is also generally assumed that the species richness is higher in lowland mires than in mires in more upland areas. This seems to hold for the Hybotidae collected in the Malaise traps on the rich fens in Hedmark as 43 species were collected in the traps situated below 650 m a.s.l., 35 species in the traps

between 650 and 750 m a.s.l., and only 23 species in the traps situated above 750 m a.s.l. However, the number of species collected in the different Malaise traps varied strongly and probably reflects local differences between the fens. The fens varied both in size, structure, and vegetation and on some of the fens there were springs, streams, or ponds.

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References

- Andersen, T. & Hagenlund, L.K. 2019. Vårfluer på rikmyrer i nordre Hedmark. *Fauna (Oslo)* 71(1–2) (2018), 12–30.
- Artsdatabanken. 2016. *Insekter på rikmyrer i Hedmark*. Kartleggingsprosjekter. Available from: <https://www.artsdatabanken.no/Pages/197274> (5 October 2021).
- Chvála, M. 1975. The Tachydromiinae (Dipt. Empididae) of Fennoscandia and Denmark. *Fauna Entomologica Scandinavica* 3, 336 pp.
- Chvála, M. 1983. The Empidoidea (Diptera) of Fennoscandia and Denmark. General Part. The families Hybotidae, Atelestidae and Microphoridae. *Fauna Entomologica Scandinavica* 12, 279 pp.
- Endrestøl, A. 2021. Strand-systemet 4.0. *Insekt-Nytt* 46, 43–72. Available from: https://www.researchgate.net/publication/349710866_Strand-systemet_40 (5 October 2021).
- Grootaert, P. & Hellqvist, S. 2020. Two new *Drapetis* species (Diptera: Hybotidae) from Sweden. *Entomologisk Tidskrift* 140 (3–4), 189–198.
- Hellqvist, S., Ericson, N. & Persson, M. 2015. Intressanta fynd i Sverige av dansflugor, stultflugor och närstående familjer (Diptera: Empidoidea). *Entomologisk Tidskrift* 136 (1–2), 17–32.
- Jonassen, T. 1998. Recent additions to the Norwegian fauna of Empidoidea (Diptera, Brachycera). *Fauna norvegica Serie B* 45, 63–68.
- Jonassen, T. 2009. Notes on some Empidoidea (Diptera, Brachycera) new to the Norwegian fauna.

Norwegian Journal of Entomology 56, 20–23.

- Jonassen, T. & Andersen, T. 2020. Diptera from rich fens and other habitats in eastern part of Innlandet, southeastern Norway. I. Dolichopodidae (Empidoidea). *Norwegian Journal of Entomology* 67, 101–124.
- Jonassen, T. & Andersen, T. 2021. Diptera from rich fens and other habitats in eastern part of Innlandet, southeastern Norway. IV. Brachystomatidae and Empididae (Empidoidea). *Norwegian Journal of Entomology* 68, 223–252.
- Jonassen, T., Andersen, T. & Kvitte, G.M. 2013. Empidoidea (Diptera) from Finnmark, northern Norway. *Norwegian Journal of Entomology*, 60, 201–245.
- Jonassen, T., Andersen, T., Salmela, J., Suuronen, A. & Vaesoja, M. 2021. Six new species of Empididae and Hybotidae (Diptera, Empidoidea) from Fennoscandia. *Norwegian Journal of Entomology* 68, 174–186.
- Lindgaard, A. & Henriksen, S. 2011. *Norsk rødliste for naturtyper 2011*. 112 pp. Artsdatabanken, Trondheim. Available from: <https://www.artsdatabanken.no/rodlisefornaturtyper> (5 October 2021).
- Michelsen, V. & Grootaert, P. 2019. Co-existing species of *Drapetis* Meigen in Skåne (S Sweden) with description of a new species and a key to males of NW European species (Diptera: Hybotidae). *Zootaxa* 4624(3), 431–441.
- Miljødirektoratet. 2017. *Naturbase*. Available from: <http://www.miljodirektoratet.no/no/Tjenester-og-verktoy/Database/Naturbase/> (5 October 2021).
- Oosterbroek, P. 2006. *The European Families of the Diptera. Identification, diagnosis, biology*. 208 pp. KNNV Publishing, Zeist.
- Salmela, J. & Ilmonen, J. 2005. Crane-fly (Diptera: Tipuloidea) fauna of a boreal mire system in relation to mire trophic status: implications for conservation and bioassessment. *Journal of Insect Conservation* 9, 85–94.
- Sinclair, B.J. & Cumming, J.M. 2006. The morphology, higher-level phylogeny and classification of the Empidoidea (Diptera). *Zootaxa* 1180, 1–172.
- Wahlberg, E. & Johanson, K.A. 2018. Molecular phylogenetics reveals novel relationships within Empidoidea (Diptera). *Systematic Entomology* 43, 619–636.

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