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Interesting new species to the Finnish Diptera fauna

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Lehden nimi, w-album, pohjautuu hyönteiskerhon logoon, joka on Ari Karhilahden tyylittelemä jalavanopsasiipi (*Satyrium w-album*).

Interesting new species to the Finnish Diptera fauna

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Abstract. In this paper 13 species of Diptera are reported as new to the Finnish fauna and one of these, *Chirosia hirtipedella* Suwa, 1974, is also new to Europe. In addition, genital drawings based on the Finnish male of species *C. hirtipedella* are presented.

Mielenkiintoisia uusia lajeja Suomen Diptera-faunaan
Lyhennelmä. Ilmoitetaan 13 Suomelle uutta kaksisiipislajia, joista yksi, *Chirosia hirtipedella* Suwa, 1974, on myös uusi Euroopalle. Lisäksi esitetään lajin *C. hirtipedella* suomalaisen koiraan perusteella piirretyt genitaalikuvat.

1. Introduction

A checklist of Finland's Diptera species was published (Kahanpää & Salmela 2014) in 2014. Since then, 30-50 new Brachycera species have been found in Finland annually. In addition, numerous new Nematocera species continue to be discovered annually in the Finnish fauna. Efforts have been made to actively report on new species, for example, observations of 228 new species to the Finnish fauna were published collectively in 2019, 2022, and 2023 (Haarto et al. 2019, Haarto 2022, Winqvist 2023).

2. New species to the Finnish fauna

Anapausis pseudohelvetica Haenni, 1984 (Scatopsidae)
Oba: Hailuoto, Keskiniemi, 7222:3389, 30.6.2022, 1♂, A. Haarto leg.
Ab: Kaarina, Järvelä, 671451:324588, 26.6.-14.7.2017, 2♀, A. Haarto leg., malaise
Ab: Salo, Halikko, Perkko, 671602:328550, 12.-28.6.2020, 1♀, V.-M. Mukkala leg., pit fall

The species has been described from Switzerland (Haenni 1984) and was previously known from the German Alps (Haenni 1999). The species was identified in Finland based on females collected in Kaarina, but was accepted into the Finnish fauna only after the presence was confirmed by a male collected in Hailuoto.

Ectaetia christii Rotheray & Horsfield, 1997 (Scatopsidae)
Ab: Salo, Halikko, Perkko, 671620:328577, 12.-28.6.2020, 50♀, Iiro Kakko leg., malaise
Ab: Salo, Halikko, Perkko, 671620:328577, 28.6.-12.7.2020, 13♀, Iiro Kakko leg., malaise
Ab: Salo, Halikko, Perkko, 671620:328577, 12.-26.7.2020, 2♀, Iiro Kakko leg., malaise

The species has been described based on a type series of more than 100 specimens collected from Scotland in 1990 (Rotheray & Horsfield 1997). In addition to the type specimens, 2 females of the species have been collected from Norway in 1991 (Haenni & Greve 2000). The Finnish specimens were collected from a similar location as the type

series, from the top of a fallen aspen in the shade. The species was determined on the basis of female specimens by Scatopsidae expert J.-P. Haenni.

Crossopalpus abditus Kovalev, 1972 (Hybotidae)
Sa: Lappeenranta, Joutseno, Myllymäki, 67794:35856, 28.6.2023, 1♀, A. Haarto leg.

The species resembles the species *C. curvinervis* (Zetterstedt), but the species *C. abditus* has dark palps (Fig. 1), while the species *C. curvinervis* has pale yellow palps (Chvála 1975).
The specimen was found on the edge of a pond under a ski slope. The species is known from Sweden and Russia in the vicinity of Finland, and it has previously been on the Finnish species list on the basis of a specimen found from Paanajärvi, Russia (Chvála 1975).


Fig. 1. Head of *Crossopalpus abditus*.

Platypalpus optivus (Collin, 1926) (Hybotidae)
Ab: Turku, Ruissalo, Marjaniemi, 67132:32359, 3.-14.8.2022, 1♂, Jokinen & Liikanen leg., light trap

The species has been described from Great Britain, and is now known to be abundant in England, Wales and Scotland (GBIF 2024a). The species is also known from France, Belgium, Germany and Denmark (GBIF 2024a) and the Czech Republic (Zuskova 1966). It appears to be an expanding species, with the first observations are from Norway dating from 1995 (Jonassen 1998) and from Sweden, Skåne, from 2014 (Hellqvist et al. 2015). Several observations are now known from Norway and Sweden, with the northernmost being near Stockholm (Artsdatabanken 2024, SLU 2024a).

Pseudacteon lundbecki Schmitz, 1924 (Phoridae)
Ab: Turku, Skanssi, BD-park, 671052:324250, 8.7.-6.8.2024, 2♀, A. Teräs & M. Koistinen leg., pit fall at edge of former wetland

A small species, length approx. 1.5 mm, with abundant hairs on the ovipositor of the female (Fig. 2). The hairs are long on the anterior part of the ovipositor. The species was previously known from Portugal, France, the Netherlands, England, Slovenia, Poland, and Denmark. The species parasitizes ants, at least the species *Formica rufa* and *Lasius niger*. (Disney 2000, Disney & Withers 2009)


Fig. 2. Female habitus of *Pseudacteon lundbecki*.

Turanodinia nigripalpis Papp, 2002 (Odiniidae)
Al: Lemland, Näsen NE, 66751:31171, 26.6.2016, 1♀, Iiro Kakko leg.

The *Turanodinia* genus has a slightly longer third antennal segment than the *Odinia* genus. The species *T. nigripalpis* has black palps as the name suggests. Thus, it differs from the majority of the species in the family, which generally have yellow palps. At the apex of the mesotibia, there is only one spur, whereas most species in the family

Odiniidae have two spurs at the apex of the mesotibia. (Papp 2002)
The species has been described from Hungary (Papp 2002) and in addition, it has only been recorded from Sweden (SLU 2024b).

Phyllomyza donisthorpei Schmitz, 1923 (Milichiidae)
Ab: Turku, Ruissalo, Marjaniemi, 67132:32359, 3.-14.8.2022, 1♂, Jokinen & Liikanen leg., light trap
Ab: Turku, Ruissalo, Tammimäki, 67120:32339, 3.-14.8.2022, 1♂, Jokinen & Liikanen leg., light trap
Ab: Turku, Ruissalo, Tammimäki, 67120:32339, 14.-21.8.2022, 1♂, Jokinen & Liikanen leg., light trap

The species has dark, long and narrow palps (Fig. 3), without any setae underneath. Its mesonotum is matt with 4 dc-setae. Haltere and tarsi are yellow. (Hennig 1937)
The species is known previously at least from Romania, Hungary, Slovakia, Czech Republic, the Netherlands, Great Britain, Denmark and Sweden (Roháček 2009, Papp 2018, GBIF 2024b). There are observations of the species in Sweden from Skåne up to almost the latitude of Stockholm (SLU 2024c).


Fig. 3. Male habitus of *Phyllomyza donisthorpei*.

Pseudocollinella abhorrens (Roháček, 1990) (Sphaeroceridae)
Le: Enontekiö, Sáttobuolzzat, 7599070:3406635, 21.5.-5.7.2023, 1♂, E. Rundgen leg., malaise

The species was found in the nature survey of Metsähallitus. The specimen was found in the area (Fig. 4), which Eerikki Rundgren described, freely translated from Finnish, as follows: "Hietatievat (in Sámi Sáttobuolzzat) is a magnificent inland dune area which transitions into mountain birch forests and heathlands, and on the other hand, abruptly into different types of fens. In addition, there is spring fens at the boundary between the dune area and the fens. The openness of the area and the wind conditions keep the sand dunes in constant motion."
The species is described from Sweden and differs clearly in its genitalia from other species of the genus previously known from Finland (Roháček 1990). It has also been found in North America (Roháček et al. 2001).


Fig. 4. Habitat of *Pseudocollinella abhorrens*. Photo: Eerikki Rundgren.

Ditrichophora gulkana Zatwarnicki & Mathis, 2010 (Ephydridae)
Oba: Hailuoto, Keskiniemi, 7222:3389, 30.6.2022, 1♀, A. Haarto leg.

The species belongs to the *nivea* group of the genus *Ditrichophora* (Zatwarnicki & Mathis 2010), which has a broad gena (Fig. 5). The single female specimen was netted on a sandy seashore from Hailuoto.
The species has been described based on 10 male and 13 female specimens collected from Alaska, USA. Additional observations of this species are reported from Mongolia and one female from Sweden on a sandy seashore (Zatwarnicki & Mathis 2010, Hellqvist et al. 2024).

Fig. 5. Female head of *Ditrichophora gulkana*.

Hyadina vockerothi Clausen, 1984 (Ephydridae)
Obb: Sodankylä, Petäjävaara, 7358630:3430303, 26.5.-13.6.2023, 2♀, J. Salmela leg., pit fall, fen

A small species, approximately 1 mm in length. It is predominantly black in color, with velvety black areas on the face, the frons, and sides of the scutellum. Especially the females of this species are often brachypterous (Fig. 6).
The species has been described based on two males and one female collected from Nova Scotia and Ontario, Canada. The males of the type series were collected from a "mouse run among Carex" (Clausen 1984). Additional observations of a single specimens have been reported from Hungary, Czech Republic, Germany, Denmark, and Sweden (Stuke 2022, Stuke 2024).

Fig. 6. Female habitus of *Hyadina vockerothi*.

Pegoplata debilis (Stein, 1916) (Anthomyiidae)
Al: Finström, Bergö, Husö, 6706:3103, 8.-9.9.2012, 1♂, Haarto, Jokinen & Virta leg.

The species occurs in Central Europe as well as in England and Scotland. It has been found only in Sortavala, Russia, from the vicinity of Finland. (Hennig 1966-1976).

Chirosia hirtipedella Suwa, 1974 (Anthomyiidae)
Ab: Parainen, Korppoo, 668406:319597, 20.5.-19.6.2023, 1♂, A. Haarto leg., malaise

The species belongs to the group of the genus with broad frons (Fig. 7). The male of the species can be identified by the genitalia. The genitalia drawn from the Finnish specimen show the aedeagus (Fig. 8), the cercus and surstylus in lateral and dorsal view (Fig. 9), and the sternum 5 in ventral and lateral view (Fig. 10).
The Malaise trap was placed at the intersection of power lines. To the south of the power line is a row of old spruces, behind which is a steep cliff, to the west is a moist birch forest, and to the east is a pine forest on an old field.
The species was previously known only from the holotype from Japan (Hokkaido, Sapporo, 11.5.1966), so it is a new species for Europe (Suwa 1974).

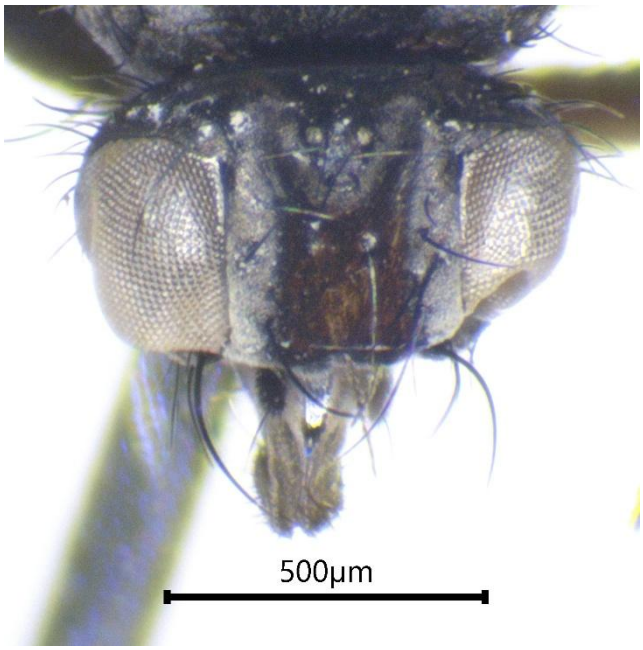

Fig. 7. Male frons of *Chirosia hirtipedella*.

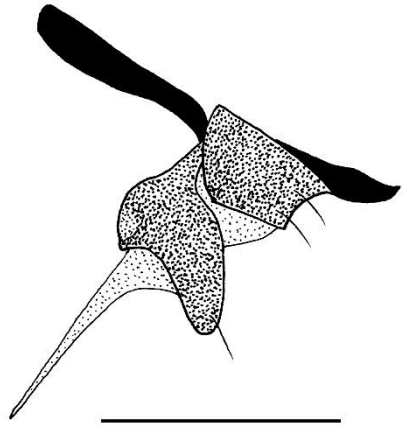

Fig. 8. Aedeagus of *Chirosia hirtipedella*. Scale 0.2 mm.

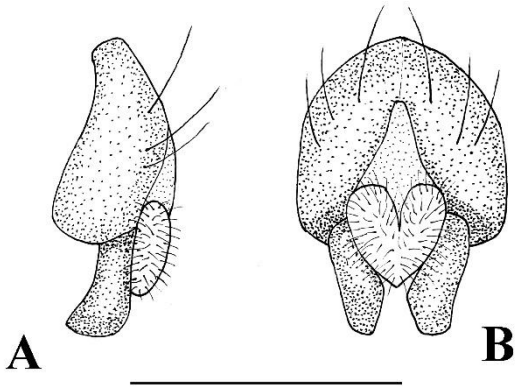

Fig. 9. Cerci and surstylus of *Chirosia hirtipedella*, A: lateral and B: dorsal view. Scale 0.5 mm.

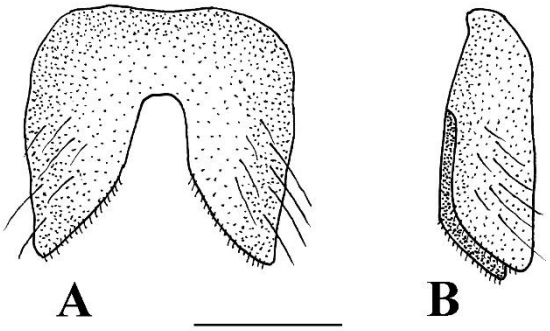

Fig. 10. Sternum 5 of *Chirosia hirtipedella*, A: ventral and B: lateral view. Scale 0.2 mm.

Phaonia siebecki Schnabl & Dziedzicki, 1911 (Muscidae)

N: Helsinki, Mustavuori, 66820:33969, 27.5.2023, 1♂, A. Haarto leg.
Kb: Liperi, Viinijärvi, 69512:36152, 5.6.2023, 2♂, Iiro Kakko leg.

The species resembles many other species of the genus *Phaonia* in nature, but a rather characteristic combination of features helps in its identification. The species is a southern species, but is known from Norway, Sweden and the St. Petersburg area of Russia in the vicinity of Finland (Gregor et al. 2002, Hennig 1955-1964, Rognes 1986). In Sweden, there have been observations of the species from Småland and from Ångermanland at the latitude of Vaasa (SLU 2024d). The species may establish a permanent population in Finland as the climate warms.

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4. References

Artsdatabanken 2024: *Platypalpus optivus*. – https://artsdatabanken.no/Taxon/Platypalpus%20optivus/21491 [26 November 2024]

Chvála, M. 1975: The Tachydromiinae (Dipt. Empididae) of Fennoscandia and Denmark. – Fauna Entomologica Scandinavica 3. Scandinavian Science Press, Vinderup.

Clausen, P. J. 1984: A new Nearctic species of *Hyadina* (Diptera: Ephydridae). – Entomological News 95(3): 83-86.

Disney, R. H. L. 2000: Revision of European *Pseudacteon* Coquillett (Diptera, Phoridae). – Bonner zoologische Beiträge 49: 79-91.

Disney, R. H. L. & Withers, P. 2009: A new species of *Pseudacteon* Coquillett (Diptera, Phoridae) and a new key to the European species. – Fragmenta Faunistica **52**: 1–12.

GBIF Secretariat 2024a: GBIF Backbone Taxonomy. https://doi.org/10.15468/39omei Accessed via https://www.gbif.org/species/1457391 [26 November 2024]

GBIF Secretariat 2024b: GBIF Backbone Taxonomy. https://doi.org/10.15468/39omei Accessed via https://www.gbif.org/species/5094279 [26 November 2024]

Gregor, F., Roskošný, R., Barták, M. & Vaňhara, J. 2002: The Muscidae (Diptera) of Central Europe. – Masaryk University, Brno, Czech Republic.

Haarto, A., Kakko, I. & Winqvist, K. 2019: Lisäyksiä Suomen Diptera-faunaan vuoden 2014 jälkeen. – w-album (22) 2019, 3-31 https://blogit.utu.fi/teks/wp-content/uploads/sites/74/2019/09/w_album_22.pdf

Haarto, A. 2022: Suomen Diptera-faunaan 51 uutta lajia. – w-album (24) 2022, 3-19. https://blogit.utu.fi/teks/wp-content/uploads/sites/74/2022/11/w_album_24.pdf

Haenni, J.-P. 1984: Contribution à la connaissance de la faune des Scatopsidae de Suisse. II. Le genre *Anapausis* Enderlein. – Mitteilungen der Schweizerischen Entomologischen Gesellschaft **57**: 273–285.

Haenni, J.-P. 1999: Scatopsidae (p. 73-75) In: Schumann, H., Bährmann, R. & Stark, A.: Entomofauna Germanica 2. Checkliste der Dipteren Deutschlands. – Studia Dipterologica, Supplement 2, Dipterologische monografien: 1-354.

Haenni, J.-P. & Greve, L. 2000: New records of Norwegian Scatopsidae (Diptera). – Norwegian Journal of Entomology **47**: 65-71. http://www.entomologi.no/journals/nje/2000-1/NJE_47_01_2000.pdf

Hellqvist, S., Ericson, N. & Persson, M. 2015: Intressanta fynd i Sverige av dansflugor, styltflugor och närstående familjer (Diptera: Empidoidea). – Entomologisk Tidskrift **136** (1-2): 17-32. https://www.sef.nu/download/entomologisk_tidskrift/et_2015/ET-2015-17-32.pdf

Hellqvist, S., Persson, M., & Zatwarnicki, T. 2024: New data on Swedish shore flies (Diptera: Ephydridae). – Entomologisk Tidskrift, **145** (4): 156-173.

Hennig, W. 1937: 60a. Milichiidae et Carnidae. In: Lindner, E. (Ed.), Die Fliegen der paläarktischen Region, 6(1): 1-91. – E. Schweizerbart, Stuttgart.

Hennig, W. 1955-1964: 63b. Muscidae. In: Lindner, E. (Ed.) 1964: Die Fliegen der paläarktischen Region 7(2): 1-1110. – E. Schweizerbart, Stuttgart.

Hennig, W. 1966-1976. 63a. Anthomyiidae. In: Lindner, E. (Ed.) 1976: Die Fliegen der paläarktischen Region 7(1): 1-974. – E. Schweizerbart, Stuttgart.

Jonassen, T. 1998: Recent additions to the Norwegian fauna of Empidoidea (Diptera, Brachycera). – Fauna Norvegica serie B **45**: 63-68. http://www.entomologi.no/journals/nje/old/V45/NJE_45_01+02_1998.pdf

Papp, L. 2002: Additions and corrections to the "Checklist of the Diptera of Hungary". – Folia Entomologica Hungarica **63**: 139-147. http://publication.nhmus.hu/pdf/folentom/FoliaEntHung_2002_Vol_63_139.pdf

Papp, L. 2018: Sixty dipterous species new for the fauna of Romania (Diptera). – Folia Entomologica Hungarica **79**: 177-188. https://www.rovartani.hu/wp-content/uploads/2019/03/15-Papp02.pdf

Rognes, K. 1986. A check-list of Norwegian Muscidae (Diptera). Fauna Norvegica serie B **33**: 77-85. https://www.knut-rognes.no/Rognes%201986%20Checklist%20Norwegian%20Muscidae.pdf

Roháček, J. 1990: New species of Limosininae (Diptera, Sphaeroceridae) from northern Europe. – Acta Entomologica Bohemoslovaca, **87**: 221-231.

Roháček, J. 2009: Milichiidae Schiner, 1862. In: Jedlička L., Kúdela M. & Stloukalová V. (eds): Checklist of Diptera of the Czech Republic and Slovakia. Electronic version 2. http://www.edvis.sk/diptera2009/families/milichiidae.htm

Roháček, J., Marshall, S. A., Norrdom A. L., Buck, M., Quiros, D. I. & Smith, I. 2001: World catalog of Sphaeroceridae (Diptera). – Slezské Zemské Muzeum, Opava. 414 pp. https://www.researchgate.net/publication/39874720_World_catalog_of_Sphaeroceridae_Diptera

Rotheray, G.E. & Horsfield, D. 1997: *Ectaetia christii* sp. n., a Scottish species similar to *Ectaetia clavipes* (Diptera, Scatopsidae). – Dipterists Digest **4**: 41-44. https://dipterists.org.uk/sites/default/files/download/DD%201997%20Vol%204%20No%201.pdf

SLU Artdatabanken 2024a: *Artfakta: Platypalpus optivus.* – https://artfakta.se/taxa/239619 [2024-11-26]

SLU Artdatabanken 2024b: *Artfakta: Turanodinia nigripalpis.* – https://artfakta.se/taxa/6051227 [2024-11-26]

SLU Artdatabanken (2024c). *Artfakta: Phyllomyza donisthorpei*. https://artfakta.se/taxa/241726 [2024-11-26]

SLU Artdatabanken (2024d). *Artfakta: Phaonia siebecki.* https://artfakta.se/taxa/243461 [2024-11-30]

Stuke, J.-H. 2022: Funde von Uferfliegen (Diptera: Ephydridae) aus Brandenburg. – Naturschutz und Landschaftspflege in Brandenburg **31**(2-3): 14-37.

Stuke, J.-H. 2024: An identification key for the European species of *Hyadina* Haliday and a new interpretation of *Hyadina vernalis* (Robineau-Desvoidy) (Diptera, Ephydridae). – Spixiana **47** (1): 49-62.

Suwa, M. 1974: Anthomyiidae of Japan (Diptera). – Insecta matsumurana. Series entomology. New series, **4**: 1-247. https://www.semanticscholar.org/paper/ANTHOMYIIDAE-OF-JAPAN-(DIPTERA)-Suwa/7f67adc0dcedd069090fab4c3d3610a9f7514850

Winqvist, K. 2023: Suomen Diptera-faunaan 70 uutta kärpäslajia 2018–2022. – w-album (26) 2023, 3-23. https://blogit.utu.fi/teks/wp-content/uploads/sites/74/2023/02/w_album_26.pdf

Zatwarnicki, T. & Mathis, W. N. 2010: A Revision of The *nivea* Group of the Shore-fly Genus *Ditrichophora* Cresson (Diptera: Ephydridae). – Transactions of the American Entomological Society **136** (3+4): 199-215.

Zuskova, L. 1966: Czechoslovak Species of the Genus Platypalpus Macquart (Diptera, Empididae). – Acta Faunistica Entomologica Musei Nationalis Pragae **11**: 331-372. https://www.aemnp.eu/data/article-134/115-11_0_331.pdf