

New and little known Norwegian hoverflies (Diptera, Syrphidae)

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Eight species, *Ceriana conopsoides* (Linnaeus, 1758), *Cheilosia cynocephala* Loew, 1840, *Cheilosia reniformis* (Hellén, 1930), *Chrysotoxum octomaculatum* Curtis, 1831, *Cryptopipiza notabila* (Violovitsh, 1985), *Eupeodes goeldlini* Mazánek, Láska & Bičík, 1999, *Ferdinandea ruficornis* (Fabricius, 1775) and *Heringia latitarsis* (Egger, 1865) are reported new to the Norwegian fauna. In addition, records of some rare species are reported.

Key words: Diptera, Syrphidae, new records, Norway.

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Introduction

The hoverfly fauna of Fennoscandia is fairly rich, demonstrated by the comprehensive books by Bartsch *et al.* (2009 a, b) and Haarto & Kerppola (2007), and by a series of papers on the fauna. The current report is a part of a national strategy for increasing knowledge of biodiversity in Norway (Norwegian Biodiversity Information Centre 2013) where the Norwegian Institute for Nature Research (NINA) has been leading a large scale mapping project for insects (INVENT-ART). The main aim of this activity was to collect new data on the poorest known species including unknown species for the country. The project had particular focus on dry and warm nature types such as sandy areas and southern faced scree. This report summarizes the most interesting records of Syrphidae from this effort.

Material and methods

The main part of the material was collected with

Malaise traps (Figure 1) from 17 different localities in South Norway, mainly in 2009–2011. Most of the material was preserved in 80% ethanol and is kept in the NTNU Vitenskapsmuseet collections. A smaller part of the material is pinned and kept in the insect collections at NINA. All records are available at the interoperable biodiversity database services Species Maps (run by the Norwegian Biodiversity Information Centre), and at the Global Biodiversity Information Facility (GBIF). Most specimens have been DNA-barcoded where data (project NORSY) can be accessed from the BOLD public database (BOLDSystems 2013). All specimens are identified by the first author and collected by the second author unless other information is mentioned. A separate, first record of *Cheilosia cynocephala* Loew, 1840, is also included in the report.

Abbreviations and codes: MT = Malaise trap, FIT = flight interception traps connected to the Malaise trap, * new to Norway. Red List codes according to the 2010 Norwegian Red List of Species (Kålås *et al.* 2010): DD = data deficient, EN = endangered, NT = near threatened, VU =



FIGURE 1. Malaise trap at AK, Skedsmo: Asaktoppen. Photo: Oddvar Hanssen.

vulnerable. Numbers in brackets means number of specimens collected.

The species

^{EN}*Anasimya contracta* Claussen & Torp, 1980

Material. VAY, Kristiansand: Hamresanden, UTM32V N6450394 E445576, MT 2.–20.VI. 2009 (3); MT 20.VI.–25.VII. 2009 (4); UTM32V N 6450413 E 445557, MT 25.VII.–3.IX. 2009 (2); UTM32V N 6450413 E 445557, MT 2.–20.VI. 2009 (1); MT 20.VI.–25.VII. 2009 (4).

^{NT}*Brachyopa cinerea* Wahlberg, 1844

Material. ON, Nord-Fron: Stordalsberget, UTM32V N6828394 E543439, MT 11.V.–23.VI. 2009 (1).

Remarks. A rare subarctic or arctic species. In Norway known from four localities only (Nielsen 1992).

^{EN}*Brachyopa obscura* Thompson & Torp, 1982

Material. HES, Eidskog: Magnor, UTM 33V

N6649631 E342153, MT 03.–27.VI. 2010 (1).

^{EN}*Brachyopa pilosa* Collin, 1939

Material. AK, Skedsmo: Asakmoen, UTM32V N6651661 E617750, MT 1.–27.VI. 2010 (2).

Brachypalpoidea lentus (Meigen, 1822)

Material. TEI, Seljord: Heggenes, UTM32V N6589119 E487636, MT 11.V.–5.VI. 2009 (1); VAY, Kristiansand, Kjevikveien, UTM32V N 6452241 E 446350, MT 2.–20.VI. 2009 (1); Kjevik lufthavn, UTM32V N6451278 E445454, MT 20.VI.–25.VII. 2009 (1).

Brachypalpus laphriformis (Fallén, 1816)

Material. AK, Skedsmo: Asakmoen, UTM32V N6651661 E617750, MT 1.–27.VI. 2010 (1); TEI, Seljord: Heggenes, UTM32V N6589119 E487636, MT 17.IV.–11.V. 2009 (1); UTM32V N6589119 E487636, MT 11.V.–5.VI. 2009 (1); TEY, Kragerø: Jomfruland, Øytangen N, UTM32V N6527525 E535378, MT 13.V.–21.VI. 2009 (1); BØ, Hole: Søhol, UTM32V

N660263 E567323, MT 8.V.–2.VI. 2010 (1); UTM32V N660263 E567323 MT 2.–26.VI. 2010 (3); **VAY**, Kristiansand, Kjevik lufthavn, UTM32V N6451278 E445454, MT 20.VI.–25.VII. 2009 (1); Hamresanden UTM32V N 6450413 E 445557, MT 20.VI.–25.VII. 2009 (1).

^{EN}*Callicera aenea* (Fabricius, 1781)

Material. **VAY**, Kristiansand: Hamresanden, UTM32V N 6450413 E 445557, MT 20.VI.–25.VII. 2009 (1).

^{EN}*Callicera aurata* (Rossi, 1790)

Material. **VAY**, Kristiansand: Kjevikveien, UTM32V N 6452296 E 446401 MT 2.–20.VI. 2009 (1); Kjevik lufthavn, UTM32V N6450961 E445530, MT 14.V.–20.VI. 2009 (1); UTM32V N6450961 E445530, MT 20.VI.–25.VII. 2009 (2).

**Ceriana conopsoides* (Linnaeus, 1758)

(Figure 2)

Material. **HES**, Eidskog: Leirsjøen, UTM33V N6642522 E341454, sweep net 2.VII. 2009 (1).

Remarks. An extraordinary wasp-like species (Figure 2). In Fennoscandia found rarely in southern Finland and in southern and central Sweden.



FIGURE 2. *Ceriana conopsoides* (Linnaeus, 1758), female from HES, Eidskog, Leirsjøen. Photo: Oddvar Hanssen.

^{EN}*Chalcosyrphus nemorum* (Fabricius, 1805)

Material. **AK**, Skedsmo: Asakmoen, UTM32V N6651661 E617750, MT 27.VI.–27.VII. 2010 (1); **BØ**, Kongsberg: Kongsgårdmoen, UTM32V N6610680 E536426, MT 11.V.–23.VI. 2011 (1); **HES**, Eidskog: Leirsjøen, UTM33V N6642652 E341213, MT 3.–27.VI. 2010 (1).

Chalcosyrphus valgus (Gmelin, 1790)

Material. **HES**, Eidskog: Leirsjøen, UTM33V N6642652 E341213, MT 28.VII.–21.VIII. 2010 (1); **TEI**, Seljord: Heggenes, UTM32V N6589119 E487636, MT 5.VI.–3.VII. 2009 (1); MT 3.–29.VII. 2009 (1); **ON**, Nord-Fron: Stordalsberget, UTM32V N6828394 E543439, MT 23.VI.–30.VII. 2009 (1); **BØ**, Hole: Søhol, UTM32V N660263 E567323, MT 8.V.–2.VI. 2010 (1); UTM32V N660263 E567323, MT 2.–26.VI. 2010 (1); **VAY**, Kristiansand, Kjevikveien, UTM32V N 6452241 E 446350, MT 20.VI.–25.VII. 2009 (1).

**Cheilosia cynocephala* Loew, 1840

Material. **VE**, Larvik: Lauvås, 32V NL 536 569, 30.VII. 2006, 2♂♂, leg. B.A. Sagvolden. In coll. Svein Svendsen.

Remarks. This small and dark haired species is very similar to the common and widespread *C. vernalis* (Fallén, 1817) and therefore easy to overlook. In Fennoscandia recorded from southern Finland, Sweden (a few scattered finds) and in Denmark.

Cheilosia impressa Loew, 1840

Material. **BØ**, Ringerike: Busund, UTM32V N666465 E569115, MT 27.VII.–18.VIII. 2009 (2).

Cheilosia nebulosa Verrall, 1871

Material. **TEI**, Seljord: Heggenes, UTM32V N6589119 E487636, MT 11.V.–5.VI. 2009 (1).

Remarks. Our second find of the species in Norway.

**Cheilosia reniformis* Hellén, 1930.

Material. **BØ**, Ringerike: Busund, UTM32V N666461 E569075, MT 12.V.–16.VI. 2009, 2♂♂.

Remarks. An eastern species, which in Europe so far is only known from Finland (Helsinki

region). The species is very similar to the smaller *C. vernalis*, but without bristles posteriorly on the scutellum. An early species recorded in April–May in Finland. The identification is verified by Sakari Kerppola, Helsinki.

***Cheilosia velutina* Loew, 1840**

Material. BØ, Ringerike: Busund, UTM32V N666461 E569075, MT 3.–27.VII. 2009(1); 27.VII.–18.VIII. 2009 (4); 18.VIII.–4.IX. 2009 (1); UTM32V N666465 E569115, MT 27.VII.–18.VIII. 2009 (1); VAY, Kristiansand, Kjevik lufthavn, UTM32V N6451278 E445454, MT 20.VI.–25.VII. 2009 (1).

***Chrysotoxum cautum* (Harris, 1776)**

Material. BØ, Hole: Søhol, UTM32V N660263 E567323, MT 8.V.–2.VI. 2010 (1); Ø, Fredriksten Festning UTM32V N6555772 E637096: MT 1.–25.VI. 2010 (2).

****Chrysotoxum octomaculatum* Curtis, 1831.**

Material. TEI, Seljord: Heggenes, UTM32V

N6589119 E487636, MT 5.VI.–3.VII. 2009 (4); UTM32V N6589119 E487636, MT 3.–29.VII. 2009 (1); UTM32V N6589119 E487636, MT 29.VII.–18.VIII. 2009 (1); TEY, Kragerø: Jomfruland, Øytangen S, UTM32V N6526900 E535024, MT 28.VII.–19.VIII. 2009 (1).

Remarks. In Fennoscandia, with scattered finds only in southern Sweden (Bartsch *et al.* 2009). The identification is verified by Daniele Somaggio, Bologna.

^{EN}*Chrysotoxum vernale* Loew, 1841 (Figure 3)

Material. TEI, Seljord: Heggenes, UTM32V N6589119 E487636, MT 17.IV.–11.V. 2009 (1), 11.V.–5.VI. 2009 (7); 5.VI.–3.VII. 2009 (1).

****Cryptopipiza notabila* (Violovitsh, 1985),**

Material. HES, Eidskog: Leirsjøen, UTM33V N6642522 E341145, sweep net 28.VI. 2010 (1); STI, Rennebu: Berkåk, UTM 32V N6966976 E551524, sweep net 1.VII. 2007.

Remarks. very similar to *Pipiza* species, but differing in the hairy katepimeron (bare in *Pipiza*).



FIGURE 3. *Chrysotoxum vernale* Loew, 1841. Photo: Frank A. Strømmen.

In Fennoscandia, also in Finland and Sweden.

***Epistrophe flava* Doczkal & Schmid, 1994**

Material. HES, Eidskog: Leirsjøen, UTM32V N6642652 E341213, MT 28.VII.–21.VIII. 2010 (2).

^{DD}*Epistrophe olgae* Mutin, 1993

Material. BØ, Ringerike: Busund, UTM32V N666461 E569075, MT 12.V.–16.VI. 2009 (3); UTM32V N666465 E569115, MT 12.V.–16.VI. 2009 (1); VAY, Kristiansand, Kjevik lufthavn, UTM32V N6451278 E445454, MT 20.VI.–25.VII. 2009 (1); NTI, Frosta: Kvingingen, UTM32V NR8054-51676, MT 29.IV.–25.V. 2009 (1).

Remarks. previously known only from the Bergen area (Gammelmo & Nielsen 2008).

***Eriozona syrphoides* (Fallén, 1817)**

Material. Ø, Fredriksten Festning, UTM32V N6555772 E637096, MT 1.–25.VI. 2010 (1).

***Eristalis cryptarum* (Fabricius, 1794)**

Material. HES, Eidskog: Leirsjøen, UTM32V N6642652 E341213, MT 28.VII.–21.VIII. 2010 (1).

***Eristalis picea* (Fallén, 1817)**

Material. BØ, Ringerike: Busund, UTM32V N666465 E569115, MT 18.VIII.–4.IX. 2009 (1).

^{NA}*Eristalis similis* (Fallén, 1817)

Material. TEY, Kragerø: Jomfruland, Øytangen S, UTM32V N6526900 E535024, MT 28.VII.–19.VIII. 2009 (1); TEI, Seljord: Heggenes, UTM32V N6589119 E487636, MT 3.–29.VII. 2009 (1); ON, Nord-Fron: Stordalsberget, UTM32V N6828394 E543439, MT 23.VI.–30.VII. 2009 (1); VAY, Kristiansand: Kjevikveien, UTM32V N 6452241 E 446350, MT 25.VII.–3.IX. 2009 (1); Hamresanden UTM32V N6450394 E445576, MT 25.VII.–3.IX. 2009 (2).

Remarks. Nielsen (2009) reported on a migration of *E. similis* to Lindesnes, SW Norway. The present additional records indicate a broader migration that year. A second migration report was published a few years later (Nielsen *et al.* 2012).

^{EN}*Eumerus flavitarsis* Zetterstedt, 1843

Material. TEI, Seljord: Heggenes, UTM32V N6589119 E487636, MT 11.V.–5.VI. 2009 (1).

^{EN}*Eumerus ornatus* Meigen, 1822

Material. TEY, Porsgrunn: Helleåsen, UTM 32V N6547631 E539828, MT 31.V.–24.VI. 2010 (1).

^{NT}*Eumerus sabulorum* (Fallén, 1817)

Material. VAY, Kristiansand: Kjevik lufthavn, UTM32V N6451278 E445454, MT 20.VI.–25.VII. 2009 (4); 25.VII.–3.IX. 2009 (1); Hamresanden, UTM32V N6450394 E445576, FIT 20.VI.–25.VII. 2009 (1); UTM32V N6450413 E445557, MT 2.–20.VI. 2009 (1); UTM32V N6450413 E445557, MT 20.VI.–25.VII. 2009 (2); UTM32V N6450413 E445557, FIT 20.VI.–25.VII. 2009 (1).

Remarks. A second record of *sabulorum* in Norway. Previously known from a single locality at Lista (VAY).

***Eupeodes duseki* Mazánek, Láska & Bičík, 1999**

Material. HEN, Follidal: Slettalykkja (1 km SW f.), UTM32V N6894984 E538566, MT 27.VI.–1.VIII. 2011 (1).

Remarks. Described from northern Fennoscandia and the mountains of southern Norway.

^{*}*Eupeodes goeldlini* Mazánek, Láska & Bičík, 1999

Material. ON, Dovre: Faksfall, UTM32V N6878298 E508888, MT 23.VI.–30.VII. 2009 (1♂).

Remarks. Described from Central Europe and the Far East (Russia) (Mazánek *et al.* 1999). Moreover in Sweden (Bartsch *et al.* 2009) and Finland (Haarto & Kerrpola 2007).

***Eupeodes punctifer* (Frey, 1934)**

Material. HEN, Follidal: Slettalykkja (1 km SW f.), UTM32V N6894984 E538566, MT 7.–27.VI. 2011 (2).

Remarks. An arctic/subarctic species.

****Ferdinandea ruficornis* (Fabricius, 1775)**

Material. TEY, Kragerø: Jomfruland, Øytangen N, UTM32V N6527525 E535378, MT 13.V.–21.VI. 2009 (1).

Remarks. In Fennoscandia: rare in Sweden, in Denmark only two old records from before 1918.

^{EN}*Heringia heringi* (Zetterstedt, 1843)

Material. TEY, Porsgrunn: Helleåsen, UTM 32V N6547631 E539828, MT 31.V.–24.VI. 2010 (1).

****Heringia latitarsis* (Egger, 1865)**

Material. TEY, Porsgrunn: Helleåsen, UTM 32V N6547631 E539828, MT 24.VI.–25.VII. 2010 (1 ♂).

Remarks. In Fennoscandia: widespread but rare in Denmark, in Sweden only from the southeast.

***Lejota ruficornis* (Zetterstedt, 1843)**

Material. AK, Skedsmo: Asakmoen, UTM32V N6651489 E617825, MT 05.V.–1.VI. 2010 (1); BØ, Ringerike: Busund, UTM32V N666461 E569075, MT 16.VI.–3.VII. 2009 (1); ON, Nord-Fron: Stordalsberget, UTM32V N6828352 E543450, MT 11.V.–23.VI. 2009 (1); FIT, 11.V.–23.VI. 2009 (1).

***Melangyna barbifrons* (Fallén, 1817)**

Material. ON, Nord-Fron: Stordalsberget, UTM32V N6828394 E543439, MT 11.V.–23.VI. 2009 (1); HES, Eidskog: Leirsjøen, UTM33V N6642652 E341213, MT 3.–27.VI. 2010 (1).

^{NT}*Melangyna ericarum* (Collin, 1946) (Figure 4)

Material. ON, Dovre: Faksfall, UTM32V N6878251 E508934, MT 30.VII.–1.IX. 2009 (1 female).

Remarks. Bartsch (2009) figures the female with broad frontal dust spots, like a belt covering nearly all frons. This does not fit with the female types and other material of *ericarum*. The dust spots make a broad Λ like figure on frons, as shown in Figure 4.

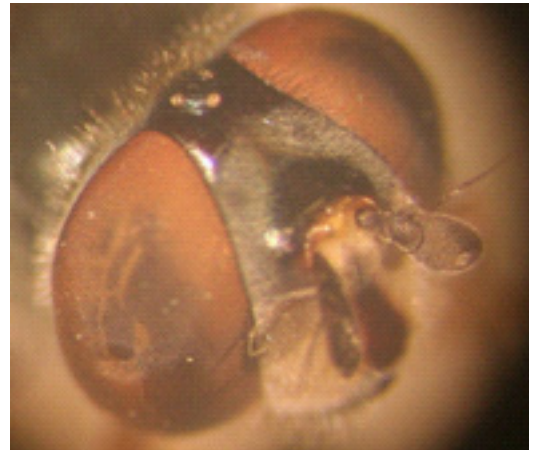


FIGURE 4. *Melangyna ericarum* (Collin, 1946), female, head. Photo: Tore R. Nielsen.

^{EN}*Orthonevra stackelbergi* Thompson & Torp, 1982

Material. HES, Eidskog: Leirsjøen, UTM33V N6642652 E341213, MT 28.VII.–21.VIII. 2010 (1).

***Paragus tibialis* (Fallén, 1817)**

Material. BØ, Kongsberg: Kongsgårdmoen, UTM32V N66 10680 E536426, MT 2.VIII.–13.IX. 2011 (1); ON, Nord-Fron: Stordalsberget, UTM32V N6828352 E543450, FIT 11.V.–23.VI. 2009 (1); FIT 23.VI.–30.VII. 2009 (2).

Remarks. Previously only known from the Oslofjord area (Nielsen 1999, 2005).

^{VU}*Parasyrphus proximus* Mutin, 1990

Material. AK, Skedsmo: Asakmoen, UTM32V N6651661 E617750, MT 1.–27.VI. 2010 (1).

Remarks. A second find in Norway.

^{EN}*Parhelophilus versicolor* (Fabricius, 1794)

Material. AK, Skedsmo: Asakmoen, UTM32V N6651661 E617750, MT 27.VI.–27.VII. 2010 (1).

***Pelecocera caledonica* (Collin, 1940)**

Material. Ø, Halden: Orød grustak, UTM32V N6555465 E639429, MT 1.–28.VII. 2009 (2); MT 28.VII.–20.VIII. 2009 (2); UTM32V N6555489 E639462, MT 28.VII.–20.VIII. 2009 (7).

Remarks. Previously reported as *Chamaesyrrhus caledonicus* Collin, 1940.

^{EN}*Pelecocera tricincta* (Meigen, 1822) (Figure 5)

Material. Ø, Halden: Orød grustak, UTM32V N6555489 E639462, MT 5.VI.–1.VII. 2009 (2), MT 1.–28.VII. 2009 (2); MT 28.VII.–20.VIII. 2009 (1); UTM32V N6555465 E639429, MT 28.VII.–20.VIII. 2009 (1); MT 5.VI.–1.VII. 2009 (1); MT 1.–28.VII. 2009 (2); **TEY**, Porsgrunn: Helleåsen, UTM 32V N6547631 E539828, MT 25.VII.–20.VIII. 2010 (1); **TEI**, Seljord: Heggenes, UTM32V N6589119 E487636, MT 3.–29.VII. 2009; **VAY**, Kristiansand, Kjevikveien, UTM32V N6452241 E446350, MT 20.VI.–25.VII. 2009 (2); UTM32V N6452296 E446401, MT 20.VI.–25.VII. 2009 (1); MT 25.VII.–3.IX. 2009 (2); Hamresanden, UTM32V N6450413 E445557, MT 2.–20.VI. 2009 (6); UTM32V N6450413 E445557, MT 20.VI.–25.VII. 2009 (75); UTM32V N6450413 E445557, MT 25.VII.–03.IX. 2009 (23); UTM32V N6450394 E445576, MT 14.V.–2.VI. 2009 (1), MT 2.–20. VI. 2009 (1); MT 25.VII.–3.IX. 2009 (35).

^{VU}*Pipiza accola* Violovitsh, 1985

Material. BØ, Ringerike: Busund, UTM32V N666461 E569075, MT 16.VI.–3.VII. 2009 (1); **TEY**, Porsgrunn: Helleåsen UTM 32V N6547631



FIGURE 5. *Pelecocera tricincta* (Meigen, 1822). Photo: Frank A. Strømme.

E539828, MT 25.VII.–20.VIII. 2010 (1).

Remarks. These are the second and third records of *P. accola* in Norway.

Pipiza luteitarsis (Zetterstedt, 1843)

Material. BØ, Hole: Søhol, UTM32V N660263 E567323, MT 8.V.–2.VI. 2010 (1); Kongsberg: Kongsgårdmoen UTM32V N66 10680 E536426, MT 11.V.–23.VI. 2011 (1).

Platycheirus holarcticus Vockeroth, 1990

Material. BØ, Hole: Søhol, UTM32V N660246 E567311, FIT 24.VII.–22.VIII. 2010 (1); **HEN**, Folldal: Slettalykkja (1 km SW f.), UTM32V N6894984 E538566, MT 27.VI.–1. VIII. 2011 (9).

Platycheirus jaerensis Nielsen, 1971

Material. **TEI**, Seljord: Heggenes, UTM32V N6589119 E487636, MT 5.VI.–3.VII. 2009 (1); **HES**, Eidskog: Leirsjøen UTM33V N6642652 E341213, MT 3.–27.VI.2010 (1); **STI**, Orkdal, Jakopsmyran, UTM32V N7006316 E0531768, MT 20.V.–21.VI. 2010 (2).

Platycheirus laskai Nielsen, 1999

Material. **ON**, Nord-Fron: Stordalsberget, UTM32V N6828394 E543439, MT 23.VI.–30. VII. 2009 (1) and Dovre: Faksfall, UTM32V N6878298 E508888, 23.VI.–30.VII. 2009 (1).

Platycheirus tarsalis (Schummel, 1836)

Material. **AK**, Skedsmo: Asakmoen, UTM 32V N6651661 E617750, MT 1.–27.VI. 2010 (2); MT 27.VI.–27.VII. 2010 (1).

Platycheirus transfugus (Zetterstedt, 1838)

Material. **ON**, Dovre: Faksfall, UTM32V N6878298 E508888, FIT 11.V.–23.VI. 2009 (1); FIT 23.VI.–30.VII. 2009 (2); **HEN**, Folldal: Slettalykkja (1 km SW f.), UTM32V N6894984 E538566, MT 7.–27.VI. 2011 (2); MT 27.VI.–1. VIII. 2011 (4).

Sericomyia nigra Portschinsky, 1873

Material. **HES**, Eidskog: Leirsjøen, UTM33V N6642652 E341213, MT 3.–27.VI. 2010 (1).

***Trichopsomyia flavitarsis* (Meigen, 1822)**

Material. Ø, Kongsberg: Kongsgårdmoen, UTM32V N6610680 E536426, MT 11.V.–23.VI. 2011 (1); **VAY**, Kristiansand: Hamresanden, UTM32V N6450413 E445557, MT 2.–20.VI. 2009 (1).

^{EN}*Triglyphus primus* Loew, 1840

Material. Ø, Fredriksten Festning, UTM32V N6555772 E637096, MT 1.–25.VI. 2010 (9); MT 25.VI.–27.VII. 2010 (4); **HES**, Eidskog: Leirsjøen, UTM33V N6642652 E341213, MT 3.–27.VI. 2010 (2); UTM33V N6642652 E341213, MT 28.VII.–21.VIII 2010 (2); **BØ**, Ringerike: Busund, UTM32V N666461 E569075, MT 3.–27.VII (1), MT 27.VII.–18.VIII (1); MT 18.VIII.–4.IX. 2009 (1); UTM32V N666465 E569115 MT 18.VIII.–4.IX. 2009 (1); **TEY**, Skien: Nenset, UTM32V N6559348 E535769, MT 24.VI.–25.VII. 2010 (1).

Remarks. Previously known from two localities in eastern Norway (AK, Ø) (Nielsen 1999, Gammelmo & Nielsen 2008).

***Xanthogramma pedissequum* (Harris, 1776)**

Material. ON, Nord-Fron: Stordalsberget, UTM32V N6828394 E543439, MT 23.VI.–30.VII. 2009 (1).

***Xanthogramma stackelbergi* Violovitsh, 1975**

Material. **TEY**, Porsgrunn: Helleåsen, UTM 32V N6547631 E539828, MT 24.VI.–25.VII. 2010 (1); Skien: Nenset, UTM32V N6559348 E535769, MT 24.VI.–25.VII. 2010 (1).

Remarks. Recently reported as new to Norway (Gammelmo & Nielsen 2008: 22).

^{NT}*Xylota ignava* (Panzer, 1789)

Material. Ø, Fredriksten Festning, UTM32V N6555757 E637197, MT 25.VI.–27.VII. 2010 (1); **HES**, Eidskog: Leirsjøen, UTM33V N6642652 E341213, MT 3.–27.VI.2010 (1).

Remarks. Previously found twice in SE Norway (Gammelmo & Nielsen 2008, Falck 2011).

Discussion

The presented material includes surprising records like *Ceriana conopsoides* and *Chrysotoxum octomaculatum*, southern and eastern European species with scattered records in southern Sweden. The find of *C. reniformis* is also surprising; described from Russia, and in Europe only known from the Helsinki region of Finland. It is very similar to *C. vernalis* and may have been overlooked. *Ferdinandea ruficornis* is another scarce species with a few records in Denmark and southeastern Sweden, Central Europe and eastwards. *Cryptopipiza notabila*, originally described from Siberia, was recently reported also from Finland and Sweden.

Paragus tibialis was previously only known from a few localities in the relatively warm and dry Oslofjord area (Nielsen 1999), but has been found also in dry inland localities. A similar species associated with dry coastland, *Pelecocera tricincta*, is now reported from an inland locality in Telemark county.

In addition, the material presents records of many other little known species, like *Epistrophe olgae* and *Eupeodes duseki*. The study shows the importance of comprehensive collecting for surveying the Norwegian fauna.

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