

Ichneumonidae (Hymenoptera) new for the fauna of Norway, Part 7

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The present faunistic survey gives distributional records for 72 species of the family Ichneumonidae (Hymenoptera), which recently have been collected in Norway. 14 of these have previously not been reported from Scandinavia, namely *Campoletis fasciata* (Bridgman, 1887), *C. incisa* (Bridgman, 1883), *Campoplex hinziator* Aubert, 1980, *Dusona admontina* (Speiser, 1908), *Hyposoter alpicola* (Smits van Burgst, 1914), *H. anglicanus* (Habermehl, 1923), *H. maculatus* (Hedwig, 1938), *H. validus* (Pfankuch, 1921), *Meloboris cingulata* Horstmann, 2004, *Nemeritis caudata* (Szepliget, 1916), *Barichneumon lituratae* (Hartig, 1838), *Mesochorus britannicus* Schwenke, 1999, *M. errabundus* Hartig, 1838 and *M. fulvipes* Schwenke, 1999. The distribution of each species is briefly outlined.

Key words: Norway, Scandinavia, new records, Ichneumonidae, Banchinae, Campopleginae, Cremastinae, Cryptinae, Ctenopelmatinae, Diplazontinae, Ichneumoninae, Mesochorinae, Metopiinae, Rhyssinae, Tryphoninae.

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Introduction

The family Ichneumonidae represents certainly the most species-rich group of parasitic Hymenoptera in the Palearctic, and has been found to be very diverse also in Northern Europe, including Norway as well. Even though the family is better known in the Western Palearctic than in other regions, our knowledge of taxonomy, biology, and distribution of the ichneumonid fauna in Norway is incomplete.

In the last two decades, the diversity of Norwegian Ichneumonidae has been studied by several researchers resulting in almost 650 species reported as «new» for the fauna of Norway (e.g. Hansen *et al.* 2010, Haraldseide 2015, Humala

& Reshchikov 2012, 2014, Riedel & Berg 1997, Riedel *et al.* 2000, 2005, Riedel & Hansen 2007, 2012, 2013).

In this contribution, 72 species of Ichneumonidae are added to the Norwegian list, and 14 of these have not been previously found in Scandinavia before.

Material and methods

The Ichneumonidae recorded in this study was collected mainly in the southern parts of the country, almost exclusively by the use of hand nets and Malaise traps. Species which have not been identified with certain accuracy due to the

lack of modern revisions are excluded to avoid misinterpretations.

The determinations were all done by the first author (MR), who also had the opportunity to study the unpublished notes from K. Horstmann in the Zoologische Staatssammlung München (Munich, Germany). These notes contain a key to the genus *Hyposoter* (Campopleginae), which was used for the determination of the Norwegian material.

The subfamilies, tribes, genera, and species are listed in alphabetic order using the recent Catalogue of World Ichneumonidae (Yu *et al.* 2012). From this catalogue the distributional records are also extracted, and the Scandinavian countries are mentioned in more detail. The faunistic divisions of Norway follow Økland (1981) and are given in **bold**.

The reference material of this publication is kept in the personal collection of the first author and a smaller part in the Natural History Museum of Oslo.

List of species

BANCHINAE

Cryptopimpla quadrilineata (Gravenhorst, 1829)

[syn. *C. blanda* (Gravenhorst, 1829)]

Material: Ø, Sarpsborg: Vistergropa, 32V PL 1615 7448, 1♀ 11 June 2013, leg. Thor Jan Olsen.

Distribution: Western Palearctic; Finland and Norway.

Lissonota antennalis Thomson, 1877

Material: Ø, Sarpsborg: Tune, Råkil (EIS 20), 1♀ 10 July 2002, leg. Thor Jan Olsen.

Distribution: Western Palearctic; Norway, Denmark, Finland and Sweden.

Lissonota buolianae Hartig, 1838

Material: Ø, Sarpsborg: Tune, Råkil (EIS 20), 1♀ 28 June 1995; 1♀ 6 July 1996, both leg. Thor Jan Olsen.

Distribution: Western Palearctic; Norway and Sweden.

Lissonota picticoxis Schmiedeknecht, 1900

Material: AAY, Lillesand: Justøy (EIS 6), 1♀ 18 July 2013, leg. Gro R. Aase & Thor Jan Olsen.

Distribution: Western Palearctic; Norway and Finland.

Lissonota sahlbergi Hellén, 1915

Material: BØ, Røyken: Kinnartangen (EIS 28), 1♀ July 1991, Malaise trap, leg. Lars Ove Hansen.

Distribution: Western Palearctic; Norway and Finland.

Lissonota subaciculata Bridgman, 1886

Material: Ø, Sarpsborg: Skjeberg church (EIS 20), 1♀ 1 June 2003, leg. Thor Jan Olsen.

Distribution: Palearctic; Norway and Sweden.

CAMPOPLEGINAE

Campoletis fasciata (Bridgman, 1887)

Material: Ø, Rygge: Ekeby, Telemarkslunden (EIS 19), 1♀ 19 May–17 June 1992, Malaise trap, leg. Lars Ove Hansen & Gaute Walberg; Sarpsborg: Tune, Råkil (EIS 20), 1♂ 20 July 1995, leg. Thor Jan Olsen; Rakkestad: Degernes, Munkebråten (EIS 20), 1♀ 5 May–4 June 2010, leg. Thor Jan Olsen; AK, Sørum: Lørenfallet, Egner (EIS 37), 1♂ May 1994, Malaise trap, leg. Lars Ove Hansen & Ove Sørlibråten; BV, Rollag: Vårviken (EIS 35), 1♀ July 1992, Malaise trap, leg. Bjørn Sagvolden; RY, Karmøy: Vea, (EIS 13), 1♀ 22 August 1993, leg. Øistein Berg.

Distribution: Central Europe; Norway (new to Scandinavia).

Campoletis incisa (Bridgman, 1883)

Material: Ø, Hobøl: Gaupstein (EIS 29), 1♀ 22 May–18 August 2012, leg. Thor Jan Olsen.

Distribution: Europe; Norway (new to Scandinavia).

Campoplex fusciplica (Thomson, 1887)

Material: AK, Asker: Vardåsen (EIS 28), 1♀ 23 August 1994, leg. Øistein Berg; ON, Nord-Fron: Vinstra [Stordalsberget] (EIS 62), 3♀♀ 6 August–19 September 1992, leg. Kai Myhr & Lars Ove Hansen.

Distribution: Western Palearctic; Finland, Norway and Sweden.

***Campoplex hinziator* Aubert, 1980**

Material: Ø, Aremark: Kutjern (EIS 21), 1 ♀ July 2013, leg. Thor Jan Olsen.

Distribution: Central Europe; Norway (new to Scandinavia).

***Diadegma annulicrus* (Thomson, 1887)**

Material: Ø, Rygge: Ekeby, Telemarkslunden (EIS 19), 1 ♀ 17 June–21 July 1992, Malaise trap, leg. Lars Ove Hansen & Gaute Walberg.

Distribution: Western Palearctic; Finland, Norway and Sweden.

***Diadegma consumptor* (Gravenhorst, 1829)**

Material: Ø, Sarpsborg: Tune, Råkil (EIS 20), 1 ♀ 1 October 2008, leg. Thor Jan Olsen.

Distribution: Palearctic; Norway and Finland.

***Diadegma laterale* (Gravenhorst, 1829)**

Material: AK, Sørum: Lørenfallet, Egner (EIS 37), 1 ♀ May 1994, Malaise trap, leg. Lars Ove Hansen & Ove Sørlibråten.

Distribution: Palearctic; Finland, Norway and Sweden.

***Diadegma latungulum* (Thomson, 1887)**

Material: Ø, Hobøl: Tomter S meander (EIS 20), 1 ♂ 5 July 2010, leg. Gro R. Aase & Thor Jan Olsen; Gaupstein (EIS 29), 3 ♀♀ 9 May–18 June 2014, leg. Thor Jan Olsen; AAY, Lillesand: Justøy, 1 ♀ 18 July 2013, leg. Gro R. Aase & Thor Jan Olsen.

Distribution: Western Palearctic; Finland and Norway.

***Dusona admontina* (Speiser, 1908)**

Material: Ø, Rakkestad: Degernes, Munkebråten (EIS 20), 2 ♀♀ 12 August 2010, leg. Thor Jan Olsen; Hobøl: Gaupstein (EIS 29), 1 ♀ 22 May♀18 August 2012, leg. Thor Jan Olsen.

Distribution. Palearctic; Norway (new to Scandinavia).

***Dusona circumcinctus* (Förster, 1868)**

Material: Ø, Sarpsborg: Tune, Råkil (EIS 20),

1 ♀ 10 July 2014, leg. Thor Jan Olsen.

Distribution: Palearctic and Oriental; Finland, Norway and Sweden

***Dusona minor* (Provancher, 1879)**

Material: Ø, Aremark: Kutjern (EIS 21), 1 ♀ July 2013, leg. T. J. Olsen.

Distribution: Holarctic; Norway and Sweden.

***Echthromonas quadrinotata quadrinotata* (Thomson, 1887)**

Material: Ø, Aremark: Kutjern (EIS 21), 3 ♀♀ 25 May♀25 July 2014, leg. Thor Jan Olsen.

Distribution: Palearctic; Norway and Finland.

***Hyposoter alpicola* (Smits van Burgst, 1914)**

Material: Ø, Sarpsborg: Tune, Råkil (EIS 20), 2 ♀♀ 25 July 1993; 1 ♀ 10 August 1993; 1 ♀ 26 August 1994, all leg. Thor Jan Olsen .

Distribution: Italy; Norway (new to Scandinavia).

***Hyposoter anglicanus* (Habermehl, 1923)**

Material: Ø, Rakkestad: Degernes, Munkebråten (EIS 20), 1 ♀ August 2011, leg. T. J. Olsen.

Distribution: Central Europe; Norway (new to Scandinavia).

***Hyposoter boops* (Thomson, 1887)**

Material: Ø, Hobøl: Tomter S meander (EIS 20), 1 ♀ August 2010, leg. Thor Jan Olsen.

Distribution: Western Palearctic; Norway and Finland.

***Hyposoter clausus* (Brischke, 1880)**

Material: Ø, Aremark: Kutjern (EIS 21), 1 ♀ 25 May–14 June 2014, leg. Gro R. Aase & Thor Jan Olsen.

Distribution: Palearctic and Oriental; Norway and Finland. This species was previously reported from TRI, Balsfjord as doubtful (Roman 1942).

***Hyposoter coxator* (Thomson, 1887)**

Material: Ø, Hvaler: Skjærhalden, Prestgårdskogen (EIS 12), 2 ♂♂ 1–20 August 2010, leg. Thor Jan Olsen; Aremark: Kutjern (EIS 21), 1 ♀ July 2013, leg. Thor Jan Olsen; Lindtjern (EIS 21), 1 ♀ 15 September 2012, leg. Thor Jan Olsen.

Distribution: Palearctic; Finland, Norway and Sweden.

***Hyposoter discedens* (Schmiedeknecht, 1909)**

Material: Ø, Aremark: Bøensætre (EIS 21), 1♀ 9 July 11993, leg. Thor Jan Olsen.

Distribution: Western Palearctic; Norway and Finland.

***Hyposoter ebeninus* (Gravenhorst, 1829)**

Material: BØ, Røyken: Kinnartangen [Kolåsen] (EIS 28), 1♀ 8 September–24 October 1991, Malaise trap, leg. Lars Ove Hansen.

Distribution: Palearctic and Oriental; Finland, Norway and Sweden.

***Hyposoter longulus* (Thomson, 1887)**

Material: Ø, Hvaler: Skjærhalden, Prestgårdskogen (EIS 12), 1♀ 4 July 2010, leg. Thor Jan Olsen.

Distribution: Western Palearctic; Finland, Norway and Sweden.

***Hyposoter maculatus* (Hedwig, 1938)**

Material: Ø, Aremark: Lindtjern (EIS 21), 1♀ 9 August–15 September 2012, leg. Olsen.

Distribution: Poland; Norway (new to Scandinavia).

***Hyposoter validus* (Pfankuch, 1921)**

Material: Ø, Aremark: Bøensætre, 1♀ 6 August 1995, leg. Thor Jan Olsen.

Distribution: Central Europe and Siberia; Norway (new to Scandinavia).

***Hyposoter viginalis* (Gravenhorst, 1892)**

Material: Ø, Hobøl: Gaupestein (EIS 29), 1♀ 20 May–5 June 2010, leg. Thor Jan Olsen; Rakkestad: Degernes, Munkebråten (EIS 20), 1♀ August 2011, leg. Thor Jan Olsen.

Distribution: Western Palearctic; Finland, Norway and Sweden.

***Hyposoter vividus* (Holmgren, 1860)**

Material: Ø, Halden, Vesttorp (EIS 20), 1♀ 15 July–1 August 2008, leg. Thor Jan Olsen; Sarpsborg: Kjerringåsen, 1♀ 11 July 2014, leg. Thor Jan Olsen; VE, Re [Våle]: Langøya (EIS 19),

1♀ 8 July–2 August 1991, leg. Lars Ove Hansen.

Distribution: Western Palearctic; Finland, Norway and Sweden.

***Meloboris cingulata* Horstmann, 2004**

Material: FV, Måsøy: Rolvsøy, Gunnarnes (EIS 186), Malaise trap, 1♀ August 1992, leg. Per Tangen.

Distribution: Central Europe; Norway (new to Scandinavia).

***Nemeritis caudata* (Szepligeti, 1916)**

Material: Ø, Aremark: Lindtjern (EIS 21), 1♀ 28 May–21 June 2012, leg. Thor Jan Olsen.

Distribution: Western Palearctic; Norway (new for Scandinavia).

***Nemeritis silvicola* Horstmann, 1993**

Material: Ø, Aremark: Kutjern (EIS 21), 1♀ 25 May–25 July 2014, leg. Gro R. Aase & Thor Jan Olsen.

Distribution: Western Palearctic; Norway and Sweden.

***Olesicampe buccata* (Thomson, 1887)**

Material: Ø, Sarpsborg: Tune, Råkil (EIS 20), 1♀ 12 June 1989; 1♀ 28 July 1994, both leg. Thor Jan Olsen; Tune, Råkil, Landbo (EIS 20), 1♀ 7 June 1993, leg. Thor Jan Olsen.

Distribution: Western Palearctic; Finland, Norway and Sweden.

***Scirtetes robustus* (Woldstedt, 1877)**

Material: Ø, Aremark: Lindtjern (EIS 21), 1♀ 28 May–21 June 2012, leg. Thor Jan Olsen; Lindtjern, Årbu (EIS 21), 1♀ 1–21 June 2012, leg. Gro R. Aase & Thor Jan Olsen.

Distribution: Palearctic; Norway and Finland.

***Sinophorus fuscicarpus* (Thomson, 1887)**

Material: Ø, Fredrikstad: Refsal Torsnes (EIS 20), 1♀ 11 August 2009, leg. T. J. Olsen.

Distribution: Palearctic and Oriental; Finland, Norway and Sweden.

***Sinophorus geniculatus* (Thomson, 1887)**

Material: Ø, Sarpsborg: Tune, Råkil (EIS 20), 1♀ 28 July 1993, leg. Thor Jan Olsen.

Distribution: Palearctic and Oriental; Finland, Norway and Sweden.

***Sinophorus pleuralis* (Thomson, 1887)**

Material: Ø, Sarpsborg: Tune, Råkil (EIS 20), 1♀ 22 July 1994; 1♀ 6 June 2014, both leg. Thor Jan Olsen.

Distribution: Palearctic and Oriental; Norway, Denmark, Finland and Sweden.

CREMASTINAE

***Cremastus pungens* Gravenhorst, 1829**

Material: Ø, Moss: Jeløy [south] (EIS 19), 1♂ 18 June 2007, leg. Thor Jan Olsen.

Distribution: Palearctic; Denmark, Finland, Norway and Sweden.

CRYPTINAE

Aptesini

***Aptesis improba* (Gravenhorst, 1829)**

Material: Ø, Hvaler: Skjærhalden, Prestgårdskogen (EIS 12), 1♀ 1–20 August 2010, leg. Thor Jan Olsen.

Distribution: Western Palearctic; Finland, Norway and Sweden.

***Cubocephalus brevicornis* (Taschenberg, 1865)**

Material: Ø, Halden: Vesttorp (EIS 20), 1♀ 5 October 2007, leg. Thor Jan Olsen.

Distribution: Holarctic; Finland and Norway.

Phygadeuontini

***Charitopes gastricus* (Holmgren, 1868)**

Material: Ø, Rygge: Ekeby, Telemarkslunden (EIS 19), 1♀ 19 May–17 June 1992, Malaise trap, leg. Lars Ove Hansen & Gaute Walberg.

Distribution: Holarctic; Finland, Norway and Sweden.

***Gelis rubricollis* (Thomson, 1884)**

Material: Ø, Sarpsborg: Grimsøya, 1♀ 11 June 2013, leg. Thor Jan Olsen.

Distribution: Western Palearctic; Finland, Norway and Sweden.

***Micromonodon tener* (Kriechbaumer, 1893)**

Material: Ø, Hobøl: Gaupstein (EIS 29), 1♀ 2 July 2013, leg. Thor Jan Olsen.

Distribution: Western Palearctic; Norway and Sweden.

***Phygadeuon cephalotes* Gravenhorst, 1829**

Material: Ø, Sarpsborg: Grimsøya (EIS 20), 1♂ 9 July 2008, leg. Thor Jan Olsen.

Distribution: Western Palearctic; Denmark, Finland, Norway and Sweden.

***Phygadeuon curviscapus* Thomson, 1889**

Material: Ø, Hobøl: Gaupstein (EIS 29), 1♀ August 2012, leg. Thor Jan Olsen.

Distribution: Western Palearctic; Finland, Norway and Sweden.

***Phygadeuon ovaliformis* Dalla Torre, 1901**

Material: TEY, Porsgrunn: Langangen (EIS 18), 1♀ 12 June 1994, leg. Øistein Berg.

Distribution: Western Palearctic; Norway and Sweden.

CTENOPELMATINAE

Pionini

***Hodostates brevis* (Thomson, 1883)**

Material: Ø, Aremark: Kutjern (EIS 21), 1♂ June 2013, leg. Thor Jan Olsen.

Distribution: Western Palearctic; Finland, Norway and Sweden.

Mesoleiini

***Lagarotis simulator* Heinrich, 1952**

Material: Ø, Sarpsborg: Sandbakken (EIS 20), 1♂ 31 August 2007, leg. Thor Jan Olsen.

Distribution: Western Palearctic; Norway and Sweden.

Euryproctini

***Hadrodactylus semirufus* (Holmgren, 1858)**

Material: Ø, Hobøl: Tomter S meander (EIS 20), 1♂ June 2011, leg. Thor Jan Olsen.

Distribution: Palearctic; Finland, Norway and Sweden.

***Synodites orbitalis* (Thomson, 1894)**

Material: Ø, Rygge: Ekeby, Gunnarsbybekken (EIS 19), Malaise trap, 1♀ 21 July–24 August 1992, leg. Lars Ove Hansen & Gaute Walberg.

Distribution: Western Palearctic; Finland, Norway and Sweden.

***Synomelix faciator* Idar, 1983**

Material: Ø, Hobøl: Gaupstein (EIS 29), 1♀ 11 July 2014, leg. Thor Jan Olsen; Aremark: Kutjern (EIS 21), 1♀ July 2013, leg. Thor Jan Olsen.

Distribution: Western Palearctic; Finland, Norway and Sweden.

DIPLAZONTINAE

***Woldstedtius baueri* Klopstein, 2014**

Material: Ø, Sarpsborg: Tune, Råkil (EIS 20), 1♂ 18 June 2001, leg. Thor Jan Olsen.

Distribution: Western Palearctic; Norway and Sweden (Klopstein 2014).

ICHNEUMONINAE

Platylabini

***Platylabus nigrocyaneus* (Gravenhorst, 1829)**

Material: Ø, Aremark: Kutjern (EIS 21), 1♀ 21 July–11 September 2013, Malaise trap, leg. Thor Jan Olsen.

Distribution: Western Palearctic; Denmark, Finland, Norway and Sweden.

***Pristicerops infractorius* (Linnaeus, 1761)**

Material: Ø, Sarpsborg: Vistergrova, 1♂ 11 June 2013, leg. Thor Jan Olsen.

Distribution: Palearctic; Finland, Norway and Sweden.

Ichneumonini

***Barichneumon lituratae* (Hartig, 1838)**

Material: Ø, Halden: Enningdalen, Kirkeboen, 1♂ 20 July 1997, leg. Thor Jan Olsen.

Distribution: Known from Norway, Germany and Poland.

***Eutanyacra picta* (Schrank, 1776)**

Material: Ø, Rygge: Støtvik Hotell, 1♀ 1–2 June 2013, leg. Gro R. Aase & Thor Jan Olsen.

Distribution: Palearctic and Oriental; Finland, Norway and Sweden.

***Hepiopelmus variegatorius* (Panzer, 1800)**

Material: Ø, Sarpsborg: Grimsøya (EIS 20), 1♀ 30 July 2014, leg. Thor Jan Olsen.

Distribution: Palearctic; Finland and Norway.

***Ichneumon boreellus* Thomson, 1896**

Material: Ø, Hobøl: Gaupstein (EIS 29), 1♀ 22 May–18 August 2012, leg. Thor Jan Olsen.

Distribution: Known from Austria, Finland, Norway and Sweden, probably a borealpine species.

Heresiarchini

***Coelichneumon torsor* (Thunberg, 1824)**

Material: Ø, Aremark: Kutjern (EIS 21), 1♂ 25 May–25 July 2014, leg. Gro R. Aase & Thor Jan Olsen.

Distribution: Northern and Central Europe; Finland, Norway and Sweden (Riedel 2013).

MESOCHORINAE

***Mesochorus britannicus* Schwenke, 1999**

Material: Ø, Sarpsborg: Tune, Råkil (EIS 20), 1♀ 30 August 1994, leg. Thor Jan Olsen; AK, Asker: Båstad, 1♀ 29 September 1992, leg. Thor Jan Olsen.

Distribution: United Kingdom and Norway (new to Scandinavia).

***Mesochorus errabundus* Hartig, 1838**

Material: Ø, Hobøl: Gaupstein (EIS 29), 1♀ 22 May–18 August 2012, leg. Thor Jan Olsen.

Distribution: Central Europe; Norway (new to Scandinavia).

***Mesochorus fulvipes* Schwenke, 1999**

Material: Ø, Sarpsborg: Sandbakken (EIS 20), 1♂ 13 September 1995, leg. Thor Jan Olsen; Hobøl: Gaupstein (EIS 29), 1♀ July 2013, leg. Thor Jan Olsen.

Distribution: Germany and Norway (new to Scandinavia).

***Mesochorus nuncupator* (Panzer, 1800)**

Material: Ø, Hobøl: Gaupestein (EIS 29), 1♀ July 2013, leg. Thor Jan Olsen.

Distribution: Palearctic; Finland, Norway and Sweden.

***Mesochorus tipularis* Gravenhorst, 1829**

Material: Ø, Sarpsborg: Tune, Råkil, 1♀ 25 July 1993, leg. Thor Jan Olsen.

Distribution: Holarctic; Finland and Norway.

METOPIINAE

***Exochus flavifrons* Boheman, 1863**

Material: Ø, Aremark: Kutjern (EIS 21), 2♀♀ July 2013, leg. Thor Jan Olsen.

Distribution: Western Palearctic; Finland, Norway and Sweden.

RHYSSINAE

***Rhyssa amoena* Gravenhorst, 1829**

Material: Ø, Rakkestad: Degernes, Munkebråten (EIS 20), 1♂ 14 July–15 August 2010, leg. Thor Jan Olsen.

Distribution: Palearctic; Finland and Norway.

TRYPHONINAE

Eclytini

***Eclytus rubridorsum* Kasparyan, 1977**

Taxonomical remark: The available specimens run to *E. rubridorsum* in the key of Kasparyan (1977), but the mesoscutum is mainly blackish, with more or less reddish suffusions on the lateral parts. In our opinion, this difference represents a color variation of this taxon only.

Material: Ø, Hvaler: Skjærhalden (EIS 12), 1♀ July 2010, leg. Thor Jan Olsen; Rakkestad: Degernes, Munkebråten (EIS 20), 2♀♀ August 2010; 1♀ August 2011, both leg. Thor Jan Olsen.

Distribution: Palearctic; Finland, Norway and Sweden.

Tryphonini

***Tryphon bidentulus* Thomson, 1883**

Material: Ø, Halden: Berby (EIS 12), 1♀ 17 July 2009, leg. Thor Jan Olsen; Enningdalen (EIS 12), 2♀♀ 23 August 2009, leg. Thor Jan Olsen.

Distribution: Palearctic; Finland, Norway and Sweden.

Exenterini

***Eridolius lineiger* (Thomson, 1883)**

Material: Ø, Sarpsborg: Vistergrova, 1♀ 11 August 2013, leg. Thor Jan Olsen.

Distribution: Palearctic; Finland, Norway Sweden.

***Exyston calcaratus* Thomson, 1883**

Material: Ø, Sarpsborg: Tune, Råkil (EIS 20), 1♀ 1 July 2001, leg. Thor Jan Olsen.

Distribution: Palearctic; Finland, Norway and Sweden.

***Smicroplectrus excisus* Kerrich, 1952**

Material: Ø, Sarpsborg, Vistergrova, 1♂ 12 June 2014, leg. Thor Jan Olsen.

Distribution: Western Palearctic; Norway and Sweden.

Discussion

The Ichneumonidae represents a very species-rich insect family in the Western Palearctic region. Up to now, almost 1900 species of Ichneumonidae have been reported from Norway (data from our unpublished catalogue). Since this number is far less than for other Scandinavian countries (e.g. more than 2500 different Ichneumonidae have been reported from Finland, see Koponen *et al.* 2009), we still estimate a large portion of unrecorded species for the Norwegian fauna. Ottesen (1993), estimated the number of ichneumonid species to be around 4000 in Norway, which may be far too much, so a number in between may be relevant.

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