

Ichneumonidae (Hymenoptera) new for the fauna of Norway, Part 6

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The present survey gives distributional records for 49 species of the family Ichneumonidae (Hymenoptera) previously not recorded from Norway. Eight of these have hitherto not been reported from Scandinavia, namely *Adelognathus acantholydae* Kasparyan, 1986, *Campoplex ocellanae* Horstmann, 1993, *Campoplex tibialis* (Szepligeti, 1916), *Casinaria albipalpis* (Gravenhorst, 1829), *Diadegma neocerophagum* Horstmann, 1969, *Orthizema francescae* Schwarz & Shaw, 2011, *Astiphromma uliginosum* Schwenke, 1999 and *Chorinaeus scrobipalpa* Aeschlimann, 1983.

Key words: Hymenoptera, Ichneumonidae, Adelognathinae, Campopleginae, Cryptinae, Ctenopelmatinae, Ichneumoninae, Mesochorinae, Metopiinae, Stilbopinae, Tersilochinae, Norway, Scandinavia, new records.

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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 North Europe. Even though the family is better known in the Western Palearctic region than in other ones, our knowledge of the taxonomy, biology, and distribution of the ichneumonid fauna in Norway is incomplete.

In the last sixteen years, almost 600 species of Ichneumonidae have been reported as «new» for the fauna of Norway (e.g. Hansen *et al.* 2010, Humala & Reshchikov 2012, Riedel & Berg 1997, Riedel *et al.* 2000, 2005, Riedel & Hansen 2007, 2012). In this paper, 49 species are added to the Norwegian list, and eight of these have not been previously found in Scandinavia before.

Material & methods

The material revised in this study was collected in all parts of Norway, mainly by sweep netting and in Malaise-traps. To avoid misinterpretations, we excluded the species which have not been identified with accuracy, mainly due to the lack of modern revisions. All determinations have been done by the first author (MR). The subfamilies, tribes, genera, and species are listed in alphabetic order using the Catalogue of World Ichneumonoidea (Yu *et al.* 2012). From this catalogue, the distribution of each species has been extracted. The Scandinavian countries are mentioned in particular.

The faunistic divisions within Norway follow Økland (1981), and are given in **bold**. The «European Invertebrate System» (EIS) follows

Endrestøl (2005). The reference material of this publication is kept in the personal collection of the first author except for a smaller part that is deposited in the collections at the Natural History Museum of Oslo.

List of species

ADELOGNATHINAE

Adelognathus acantholydae Kasparyan, 1986

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

Distribution: Palearctic; not previously reported from Scandinavia.

CAMPOPLEGINAE

Campoplex cingulatus (Brischke, 1880)

Material: Ø, Sarpsborg: Tune, Råkil (EIS 20), 1♂ 1 June 2002, leg. T.J. Olsen

Distribution: Western Palearctic; Finland.

Campoplex ocellanae Horstmann, 1993

Material: Ø, Hobøl: Gaupestein (EIS 20), Malaise-trap, 1♀ August–September 2012, leg. T.J. Olsen.

Distribution: Western Palearctic; only known from the Netherlands.

Campoplex rothi (Holmgren, 1860)

Material: Ø, Hvaler: Skjærhalden, Prestgårdskog, Malaise-trap, 1♀ 1–20 August 2010, leg. T.J. Olsen.

Distribution: Western Palearctic; Finland and Sweden.

Campoplex tibialis (Szepligeti, 1916)

Material: Ø, Sarpsborg: Tunevannet (EIS 20), 1♀ 4 August 1996, leg. T.J. Olsen.

Distribution: Western Palearctic; only Central Europe; not previously reported from Scandinavia.

Casinaria albipalpis (Gravenhorst, 1829)

Material: Ø, Hobøl: Gaupestein (EIS 29), Malaise-trap, 1♀ 22 May–18 August 2012, leg.

T.J. Olsen.

Distribution: Palearctic; not previously reported from Scandinavia.

Diadegma aculeatum (Bridgman, 1889)

Material: TEI, Tokke: Eidsborg (EIS 16), 1♀ 19 July 1994, leg. Ø. Berg; ON, Nord-Fron: Vinstra, 2♀♀ 30 June–6 August 1992, leg. K. Myhr & L.O. Hansen.

Distribution: Palearctic; Finland.

Diadegma glabriculum (Holmgren, 1859)

Material: Ø, Halden: Enningdalen (EIS 12), 1♀ 23 August 2009, leg. T.J. Olsen.

Distribution: Holarctic; Finland and Sweden.

Diadegma neocerophagum Horstmann, 1969

Material: BØ, Drammen: Underlia (EIS 28), Malaise-trap, 1♀ 1–30 May 1994, leg. L.O. Hansen.

Distribution: Western Palearctic; only Central Europe; not previously reported from Scandinavia.

Diadegma stigmatellae Horstmann, 1980

Material: Ø, Sarpsborg: Tune, Råkil (EIS 20), 1♀ 30 June 1993, leg. T.J. Olsen.

Distribution: Western Palearctic; Finland.

Diadegma suecicum Horstmann, 1973

Material: VE, Re (Våle): Langøya (EIS 19), light-trap, 1♀ 1 September–31 October 1987, leg. L.O. Hansen.

Distribution: Western Palearctic; Sweden.

Dusona aemula (Förster, 1868)

Material: ON, Nord-Fron: Vinstra (EIS 62), Malaise-trap, 1♀ 6 August–19 September 1992, leg. K. Myhr & L.O. Hansen.

Distribution: Palearctic; Finland and Sweden.

Dusona inermis (Förster, 1868)

Material: Ø, Sarpsborg: Grimsøya (EIS 20), 1♂ 4 August 2007, leg. T.J. Olsen; Ø, Hvaler: Skjærhalden, Prestgårdskogen (EIS 12), 1♀ [no date] 2010, leg. T.J. Olsen.

Distribution: Palearctic; Finland and Sweden.

***Dusona limnobia* (Thomson, 1887)**

Material: Ø, Sarpsborg: Tune, Råkil (EIS 20), 1♀ 20 June 2012, leg. T.J. Olsen.

Distribution: Palearctic; Finland and Sweden.

***Dusona subimpressa* (Förster, 1868)**

Material: Ø, Sarpsborg: Tune, Råkil (EIS 20), 1♀ 22 May 1993, 1♀ 5 June 2005, 1♂ 15 June 2003, 2♂♂ 25 June 2006, 1♀ 10 June 2007, 2♂♂ 1 July 2007, 1♀ 1 August 2007, leg. T.J. Olsen.

Distribution: Palearctic; Finland.

***Olesicampe erythropyga* (Holmgren, 1860)**

Material: Ø, Sarpsborg: Grimsøya (EIS 20), 1♀ 15 June 2002, leg. T.J. Olsen.

Distribution: Palearctic; Finland and Sweden.

***Olesicampe ratzeburgi* (Tschek, 1871)**

Material: Ø, Halden: Vesttorp (EIS 20), Malaise-trap, 1♀ 7 June–15 July 2008, leg. T.J. Olsen.

Distribution: Western Palearctic, introduced to the Nearctic; Finland and Sweden.

CRYPTINAE

Cryptini

***Nematopius debilis* (Ratzeburg, 1852)**

Material: Ø, Hobøl: Gaupstein (EIS 29), Malaise-trap, 1♀ July 2012, leg. T.J. Olsen.

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

Phygadeuontini

***Bathythrix collaris* (Thomson, 1896)**

Material: Ø, Hobøl: Tomter S meander (EIS 20), Malaise-trap, 1♀ June 2011, leg. T.J. Olsen.

Distribution: Western Palearctic; Finland and Sweden.

***Endasys testaceipes* (Brischke, 1891)**

Material: Ø, Sarpsborg: Tune, Råkil (EIS 20), 1♀ 22 June 1995, leg. T.J. Olsen.

Distribution: Western Palearctic; Finland and Sweden.

***Gelis longicauda* (Thomson, 1884)**

Material: BØ, Røyken: Kinnartangen (EIS 28), Malaise-trap, 1♀ 8 September–24 October 1991, leg. L.O. Hansen.

Distribution: Palearctic; Finland and Sweden.

***Gelis problemator* Aubert, 1989**

Material: BØ, Hurum: Tofteholmen (EIS 19), Malaise-trap, 1♀ 28 May–7 July 1991, leg. L.O. Hansen.

Distribution: Western Palearctic; Sweden.

***Hemiteles maricesca* Schwarz & Shaw, 2000**

Material: FV, Måsøy: Rolvsøy, Gunnarnes (EIS 186), Malaise-trap, 1♀ 31 July–31 August 1992, leg. P. Tangen.

Distribution: Western Palearctic; Finland.

***Hemiteles rubropleuralis* Kiss, 1929**

Material: VE, Re (Våle): Langøya (EIS 19), Malaise-trap, 1♀ 8 July–2 August 1991, leg. L.O. Hansen.

Distribution: Western Palearctic; Finland.

***Isadelphus coriarius* (Taschenberg, 1865)**

Material: ON, Nord-Fron: Vinstra (EIS 62), Malaise-trap, 1♂ 1–25 May 1992, leg. L.O. Hansen & K. Myhr.

Distribution: Western Palearctic; Finland.

***Isadelphus longisetosus* (Schmiedeknecht, 1897)**

Material: Ø, Rygge: Ekeby, Telemarkslunden (EIS 19), Malaise-trap, 1♀ 24 August–10 October 1992, leg. L.O. Hansen & G. Walberg.

Distribution: Western Palearctic; Sweden.

***Medophron mixtus* (Bridgman, 1883)**

Material: BV, Rollag: Kjomme (EIS 27), 1♀ 13 June 1995, leg. B. Sagvolden.

Distribution: Western Palearctic; Finland and Sweden.

***Orthizema flavicorne* (Schmiedeknecht, 1905)**

Material: TEI, Notodden: Lisleherad (EIS 27), Malaise-trap, 1♀ 6 August–19 October 1993, Malaise-trap, leg. A. Bakke.

Distribution: Western Palearctic; Finland.

***Orthizema francescae* Schwarz & Shaw, 2011**

Material: ON, Nord-Fron: Vinstra (EIS 62), Malaise-trap, 1♀ 30 June–6 August 1992, leg. L.O. Hansen & K. Myhr.

Distribution: Western Palearctic; previously known from Great Britain, not previously reported from Scandinavia.

***Phygadeuon magnicornis* (Thomson, 1884)**

Material: Ø, Sarpsborg: Tune, Råkil (EIS 20), 1♀ 20 September 1994, leg. T.J. Olsen.

Distribution: Western Palearctic; known from Sweden and United Kingdom.

***Stilpnus (Stilpnus) blandus* Gravenhorst, 1829**

Material: Ø, Rygge: Ekeby, Gunnarsbybekken (EIS 19), Malaise-trap, 1♀ 19 May–17 June 1992, leg. L.O. Hansen & G. Walberg.

Distribution: Holarctic; Denmark, Finland and Sweden.

***Sulcarius fulviscapus* Townes, 1983**

Material: Ø, Hobøl, Tomter (EIS 20), Malaise-trap 1♀ 18 May–7 June 2010, leg. T.J. Olsen.

Distribution: Western Palearctic; Denmark and Sweden.

***Sulcarius laeviplusuris* Horstmann, 1991**

Material: VE, Larvik: Brunlanes, Lerungsand (EIS 11), 1♀ 24 May 1994, leg. Ø. Berg.

Distribution: Palearctic; previously known from Sweden and Great Britain.

***Zoophthorus platygaster* (Schmiedeknecht, 1897)**

Material: BV, Rollag: Rollag (EIS 35), 1♀ 5 June 1995, leg. B. Sagvolden.

Distribution: Western Palearctic; Finland and Sweden.

CTENOPELMATINAE

Ctenopelmatini

***Homaspis rufina* (Gravenhorst, 1829)**

Material: Ø, Sarpsborg: Tune, Råkil (EIS 20), 1♂ 21 June 2002, leg. T.J. Olsen.

Distribution: Palearctic; Finland and Sweden.

Mesoleiini

***Campodorus monticola* (Holmgren, 1857)**

Material: FV, Måsøy: Rolvsøy, Gunnarnes (EIS 186), Malaise-trap, 1♀ 1–31 July 1992, leg. G. Tangen.

Distribution: Palearctic; Finland and Sweden.

***Mesoleius intermedius* (Gravenhorst, 1829)**

Material: Ø, Halden: Enningdalen (EIS 12), 1♂ 23 August 2009, leg. T.J. Olsen.

Distribution: Western Palearctic; Finland and Sweden.

ICHNEUMONINAE

***Cratichneumon luteiventris* (Gravenhorst, 1829)**

Material: AK, Bærum: Solberg (EIS 28), 1♂ 21 July 2006, leg. Ø. Berg.

Distribution: Palearctic; Denmark and Sweden.

***Eutanyacra pallidicornis* (Gravenhorst, 1829)**

Material: Ø, Sarpsborg: Tune, Råkil (EIS 20), 1♂ 22 June 2002, leg. T.J. Olsen.

Distribution: Western Palearctic; Finland and Sweden.

***Ichneumon submarginatus* Gravenhorst, 1829**

Material: VAY, Farsund: Listeid Nature Reserve, 72m a.s.l., Malaise-trap, 2♂♂ 1 July–24 August 2011, leg. A. Humala & A. Reshchikov.

Distribution: Palearctic; Finland and Sweden.

MESOCHORINAE

***Astiphromma uliginosum* Schwenke, 1999**

Material: TEI, Tinn: Hægeberget (9km E Kalhovd) (EIS 34), 800–1000m a.s.l., 1♀ 26 July 1987, leg. T. Munk.

Distribution: Palearctic; only known from Germany, not previously reported from Scandinavia.

METOPHIINAE

***Chorinaeus scrobipalpa* Aeschlimann, 1983**

Material: Ø, Hobøl: Gaupstein (EIS 29),

Malaise-trap, 1♂ July 2012, leg. T.J. Olsen; Ø Sarpsborg: Tune, Råkil, 1♂ 20 June 2007, leg. T.J. Olsen.

Distribution: Palearctic; not previously reported from Scandinavia.

***Triclistus albicinctus* Thomson, 1887**

Material: Ø, Sarpsborg: Tune, Råkil (EIS 20), 1♂ 10 August 2005, leg. T.J. Olsen.

Distribution: Western Palearctic; Sweden.

STILBOPINAE

***Stilbops limneriaeformis* (Schmiedeknecht, 1888)**

Material: Ø, Aremark: Lindtjern, Årbu (EIS 21), Malaise-trap, 3♀ 1–21 June 2012, leg. T.J. Olsen.

Distribution: Palearctic; Finland.

TERSILOCHINAE

***Barycnemis punctifrons* Horstmann, 1981**

Material: Ø, Sarpsborg: Tune, Råkil (EIS 20), 1♀ 8 August 2005, leg. T.J. Olsen.

Distribution: Palearctic; Denmark and Finland.

***Phradis nigrifulus* (Gravenhorst, 1829)**

Material: Ø, Sarpsborg: Tune, Råkil (EIS 20), 1♀ 30 July 1994, leg. T.J. Olsen.

Distribution: Western Palearctic; Denmark and Finland.

***Probes (P.) erythrostomus* (Gravenhorst, 1829)**

Material: Ø, Sarpsborg: Tune, Råkil (EIS 20), 1♂ 6 July 1996, leg. T.J. Olsen.

Distribution: Western Palearctic; Denmark and Sweden.

***Tersilochus (Pectinolochus) coelioidicola* (Silvestri, 1917)**

Material: Ø, Rygge: Ekeby, Gunnarsbybekken (EIS 19), Malaise-trap, 1♀ 19 May–17 June 1992, leg. L.O. Hansen & G. Walberg.

Distribution: Palearctic; Finland.

***Tersilochus (Tersilochus) heterocerus* (Thomson, 1889)**

Material: VE, Re (Våle): Langøya (EIS 19), 1♀ 16 May 1990, leg. L.O. Hansen.

Distribution: Western Palearctic; Denmark, Finland and Sweden.

Discussion

As known for other European countries, the Ichneumonidae represents a very species-rich insect family in Norway. Up to now, almost 1600 different species have been recorded from Norway (Yu *et al.*, 2012). This number is still far less than for example Finland, where more than 2500 species have been reported so far (Koponen *et al.* 2009). Based on this, a large number of species may still be expected to be found in Norway.

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