

A contribution to the knowledge of Norwegian ichneumonid wasps (Hymenoptera, Ichneumonidae)

HÅKON HARALDSEIDE

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In the present study 77 species of ichneumonid wasps are recorded from Norway for the first time, including representatives of the following subfamilies: Adelognathinae, Anomaloninae, Banchinae, Campopleginae, Cryptinae, Ctenopelmatinae, Diplazontinae, Ichneumoninae, Metopiinae, Ophiioninae, Orthopelmatinae, Phygadeuontinae, Pimplinae, Stilbopinae, Tersilochinae and Tryphoninae.

Key words: Hymenoptera, Ichneumonidae, Adelognathinae, Anomaloninae, Banchinae, Campopleginae, Cryptinae, Ctenopelmatinae, Diplazontinae, Ichneumoninae, Metopiinae, Ophiioninae, Orthopelmatinae, Phygadeuontinae, Pimplinae, Stilbopinae, Tersilochinae, Tryphoninae, new records, Norway.

Håkon Haraldseide, Ålavikvegen 4, NO-4250 Kopervik, Norway. E-mail: hharaldseide@gmail.com

Introduction

Ichneumonidae represents the most species rich family of the parasitic Hymenoptera. So far about 2000 species have been registered from Norway (Yu *et al.* 2016, Riedel 2019 and references therein). Below, 77 species are reported from Norway for the first time.

Material and methods

All specimens in this study were collected by the author in the south-western parts of Norway (with exception of *Enicospilus ryrholmi* Johansson, 2018 from Bø in Telemark). Specimens from the Oppsalsneset-location were collected in collaboration with Eivind Thorsen. All specimens are kept in the author's collection.

Records are presented as follows: Faunistic Region (Økland 1981), municipality, location, coordinates (WGS 84 decimal degrees $\pm 5m$), and European Invertebrate Survey grid-number (EIS) (Endrestøl 2005).

Notes on distribution is limited to ecozone and adjacent Nordic countries. Distribution data is from Yu *et al.* (2016).

Taxonomy follows Yu *et al.* (2016) except Phygadeuontinae is treated as a subfamily following Santos (2017).

Abbreviations: MT = Malaise trap, SN = sweep netted.

Some specimens have been identified by others; these are credited under their respective records. Many identifications have been subjected to second opinions, see acknowledgements.

Records

ADELOGNATHINAE

Adelognathus laevicollis Thomson, 1883

Material: HOY, Sveio: Mølstre (59.516399, 5.277373) (EIS 22) June 2019, 1♀ (MT); RY, Suldal: Finnvik (59.448504, 6.021319) (EIS 14) May 2018, 1♀ (MT).

Distribution: Palearctic; Norway, Sweden.

Adelognathus obscurus Kasparyan, 1986

Material: RY, Karmøy: Skår (59.287979, 5.264283) (EIS 13), 27. June–7. July 2015, 2♀♀ (MT).

Distribution: Palearctic; Norway, Sweden.

ANOMALONINAE

Agrypon batis (Ratzeburg, 1855)

Material: RY, Karmøy: Skår (59.287979, 5.264283) (EIS 13), 29. June 2014, 1♀ (SN); July 2018, 1♀ (SN).

Distribution: Palearctic; Norway, Finland, Sweden.

Agrypon canaliculatum (Ratzeburg, 1844)

Material: HOY, Sveio: Mølstre (59.516399, 5.277373) (EIS 22) June 2017, 1♀ (MT) det. Heinz Schnee.

Distribution: Palearctic; Norway, Finland, Sweden.

BANCHINAE

Lissonota saturator (Thunberg, 1822)

Material: RY, Karmøy: Skår (59.287979, 5.264283) (EIS 13), August 2015, 5♀♀ (MT); August 2016, 4♀♀ (MT); August 2018, 1♀ (MT); Suldal: Finnvik (59.448504, 6.021319) (EIS 14) June 2018, 1♀ (MT); July 2014, 1♀ (MT). July 2016, 1♀ (MT); July 2018, 1♀ (MT); July 2019, 4♀♀ (MT); August 2019, 2♀♀ (MT); Vindafjord: Oppsalsneset (59.29479, 5.52589) July 2018, 1♀ (MT).

Distribution: Palearctic; Norway, Sweden.

Lissonota stigmator Aubert, 1972

Material: RY, Vindafjord: Oppsalsneset (59.29479, 5.52589) (EIS 14) April 2019, 1♀ (MT).

Distribution: Palearctic; Norway, Sweden.

CAMPOPLEGINAE

Callidora analis (Gravenhorst, 1829)

Material: RY, Vindafjord: Oppsalsneset (59.29479, 5.52589) (EIS 14) April 2019, 1♂ (MT).

Distribution: Palearctic; Norway, Finland.

Dusona insignita (Förster, 1868)

Material: RY, Suldal: Finnvik (59.448504, 6.021319) (EIS 14) June 2019, 2♀♀ (MT).

Distribution: Palearctic; Norway, Finland, Sweden.

Melanoplex bucculentus (Holmgren, 1860)

Material: HOY, Sveio: Mølstre (59.516399, 5.277373) (EIS 22) April 2016, 1♀ (MT); RY, Karmøy: Skår (59.287979, 5.264283) (EIS 13), April 2018, 1♂ (MT); May 2016, 2♀♀ (MT); Suldal: Finnvik (59.448504, 6.021319) (EIS 14) June 2016, 1♀ (MT).

Distribution: Palearctic; Norway, Sweden.

Nemeritis scaposa Horstmann, 1975

Material: RY, Suldal: Finnvik (59.448504, 6.021319) (EIS 14) June 2016, 1♀ (MT).

Note: I have compared this specimen to three specimens identified by Klaus Horstmann held at the Zoologische Staatssammlung München.

Distribution: Palearctic; Norway Sweden.

Porizon transfuga (Gravenhorst, 1829)

Material: RY, Suldal: Finnvik (59.448504, 6.021319) (EIS 14) August 2018, 1♀ (MT); October 2017, 1♂2♀♀ (MT); Vindafjord: Oppsalsneset (59.29479, 5.52589) (EIS 14) July 2018, 1♀ (MT); September 2017, 1♂5♀♀ (MT); September 2018, 1♀ (MT)..

Distribution: Palearctic; Norway, Finland, Sweden.

***Tranosema carbonellum* (Thomson, 1887)**

Material: RY, Karmøy: Skår (59.287979, 5.264283) (EIS 13), April 2016, 1♀ (MT); May 2015, 2♀♀ (MT); May 2016, 1♀ (MT).

Distribution: Palearctic; Norway, Finland, Sweden.

***Tranosemella citrofrontalis* (Hedwig, 1939)**

Material: HOY, Sveio: Mølstre (59.516399, 5.277373) (EIS 22) June 2014, 2♂♂ (MT); July 2014, 2♂♂ (MT); July 2016, 2♂♂ (MT); July 2019, 1♀ (MT); August 2019, 2♂♂ (MT).

Distribution: Palearctic; Norway, Finland.

CRYPTINAE

***Aconias tarsatus* (Bridgman, 1881)**

Material: HOY, Sveio: Mølstre (59.516399, 5.277373) (EIS 22) August 2016, 1♂ (MT); RY, Vindafjord: Oppsalsneset (59.29479, 5.52589) (EIS 14) July 2018, 1♂ (MT).

Distribution: Palearctic; Norway, Finland, Sweden.

***Enclisis ornaticeps* (Thomson, 1885)**

Material: RY, Suldal: Finnvik (59.448504, 6.021319) (EIS 14) June 2016, 1♂ (MT); June 2019, 1♂ (MT).

Distribution: Palearctic; Norway, Finland.

CTENOPELMATINAE

***Campodorus difformis* (Holmgren, 1876)**

Material: RY, Karmøy: Skår (59.287979, 5.264283) (EIS 13), July 2016, 1♀ (MT); July 2017, 1♀ (MT); August 2016, 1♀ (MT); September 2017, 1♀ (MT); Suldal: Finnvik (59.448504, 6.021319) (EIS 14) June 2016, 1♀ (MT); June 2018, 1♀ (MT); August 2017, 1♀ (MT); September 2017, 1♀ (MT). Vindafjord: Oppsalsneset (59.29479, 5.52589) (EIS 14) June 2016, 1♀ (MT); July 2016, 1♀ (MT); June 2017, 1♀ (MT).

Distribution: Palearctic; Norway, Sweden.

***Campodorus latiscapus* (Thomson, 1894)**

Material: RY, Suldal: Finnvik (59.448504, 6.021319) (EIS 14) June 2016, 1♀ (MT); June

2017, 1♀ (MT).

Distribution: Palearctic; Norway, Finland, Sweden.

***Euryproctus bivinctus* Holmgren, 1857**

Material: RY, Vindafjord: Oppsalsneset (59.29479, 5.52589) (EIS 14) June 2017, 1♀ (MT).

Distribution: Palearctic; Norway, Finland, Sweden.

***Euryproctus inferus* Thomson, 1889**

Material: RY, Karmøy: Skår (59.287979, 5.264283) (EIS 13), June 2015, 1♀ (MT).

Distribution: Palearctic; Norway, Finland, Sweden.

***Lathrolestes lucidulus* (Holmgren, 1857)**

Material: RY, Suldal: Finnvik (59.448504, 6.021319) (EIS 14) July 2018, 1♀ (MT).

Distribution: Palearctic; Norway, Finland, Sweden.

***Mesoleius ribesii* Bauer, 1961**

Material: RY, Vindafjord: Oppsalsneset (59.29479, 5.52589) (EIS 14) June 2018, 2♀♀ (MT); July 2016, 2♀♀ (MT); July 2017, 2♀♀ (MT).

Distribution: Palearctic; Norway.

***Smicrolius parvicar* (Thomson, 1895)**

Material: HOY, Sveio: Mølstre (59.516399, 5.277373) (EIS 22) June 2014, 2♀♀ (MT); June 2015, 3♀♀ (MT).

Distribution: Palearctic; Norway, Finland, Sweden.

DIPLAZONTINAE

***Promethes bridgmani* Fitton, 1976**

Material: RY, Suldal: Finnvik (59.448504, 6.021319) (EIS 14) August 2018, 1♂ (MT); September 2017, 1♀ (MT).

Distribution: Palearctic; Norway, Finland, Sweden.

ICHNEUMONINAE

Aethecerus subuliferus (Holmgren, 1890)

Material: RY, Suldal: Finnvik (59.448504, 6.021319) (EIS 14) June 2016, 2♀♀ (MT) det. Erich Diller; August 2018, 1♀ (MT).

Distribution: Palearctic; Norway, Finland, Sweden.

Cyclolabus alpinus (Habermehl, 1917)

Material: RY, Vindafjord: Oppsalsneset (59.29479, 5.52589) (EIS 14) August 2018, 1♀ (MT).

Distribution: Palearctic; Norway, Finland, Sweden.

Dentilabus variegatus (Wesmael, 1845)

Material: HOY, Sveio: Mølstre (59.516399, 5.277373) (EIS 22) June 2019, 1♂1♀ (MT); August 2019, 1♂ (MT); September 2019, 1♂1♀ (MT); RY, Suldal: Finnvik (59.448504, 6.021319) (EIS 14) September 2019, 1♂ (MT).

Distribution: Palearctic; Norway, Finland, Sweden.

Dilleritonus apertor Aubert, 1979

Material: RY, Karmøy: Skår (59.287979, 5.264283) (EIS 13), August 2016, 1♀ (MT) det. Erich Diller; September 2018, 1♀ (MT); Vindafjord: Oppsalsneset (59.29479, 5.52589) (EIS 14) September 2017, 2♂♂ (MT).

Distribution: Palearctic; Norway.

Epitonus proximus Perkins, 1953

Material: HOY, Sveio: Mølstre (59.516399, 5.277373) (EIS 22) April 2015, 1♀ (MT); June 2014, 5♂♂ (MT); July 2014 6♂♂ (MT); July 2017, 1♂ (MT); RY, Karmøy: Skår (59.287979, 5.264283) (EIS 13), June 2016, 2♂♂2♀♀ (MT) July 2012 1♂ (MT); July 2016, 1♂ (MT); Suldal: Finnvik (59.448504, 6.021319) (EIS 14) June 2016, 1♀ (MT); June 2019, 1♀ (MT); July 2019, 2♀♀ (MT); Vindafjord: Oppsalsneset (59.29479, 5.52589) (EIS 14), June 2017, 2♂♂ (MT); July 2016, 1♂ (MT).

Distribution: Palearctic; Norway, Finland, Sweden.

Herpestomus minimus (Berthoumieu 1901)

Material: RY, Karmøy: Skår (59.287979, 5.264283) (EIS 13), July 2018, 1♂ (MT); Vindafjord: Oppsalsneset (59.29479, 5.52589) (EIS 14), June 2018, 1♂ (MT) det. Erich Diller; Suldal: Finnvik (59.448504, 6.021319) (EIS 14) May 2018, 1♂ (MT).

Distribution: Palearctic; Norway.

Heterischnus debilis (Gravenhorst, 1829)

Material: RY, Vindafjord: Oppsalsneset (59.29479, 5.52589) (EIS 14) August 2017, 1♂ (MT); Suldal: Finnvik (59.448504, 6.021319) (EIS 14) June 2016, 1♀ (MT).

Distribution: Palearctic; Norway, Finland.

Heterischnus truncator (Fabricius, 1798)

Material: HOY, Sveio: Mølstre (59.516399, 5.277373) (EIS 22) June 2016, 1♀ (MT); July 2016, 1♂ (MT).

Distribution: Palearctic; Norway, Finland, Sweden.

Ichneumon caloscelis Wesmael, 1845

Material: HOY, Sveio: Mølstre (59.516399, 5.277373) (EIS 22) May 2019, 1♀ (MT).

Distribution: Palearctic; Norway, Finland, Sweden.

Listrodromus nycthemerus (Gravenhorst, 1820)

Material: RY, Suldal: Finnvik (59.448504, 6.021319) (EIS 14) 1. June – 6. July 2017, 1♀ (MT).

Distribution: Palearctic; Norway, Finland, Sweden.

Mevesia guttata Perkins, 1953

Material: RY, Suldal: Finnvik (59.448504, 6.021319) (EIS 14) June 2014, 3♀♀ (MT) det. Erich Diller; June 2017, 1♀ (MT).

Distribution: Palearctic; Norway.

Platylabus opaculus Thomson, 1888

Material: HOY, Sveio: Mølstre (59.516399, 5.277373) (EIS 22) July 2019, 1♀ (MT); RY, Karmøy: Skår (59.287979, 5.264283) (EIS 13), August 2017, 1♀ (MT).

Distribution: Palearctic; Norway, Finland, Sweden.

***Platylabus sternoleucus* Wesmael, 1853**

Material: HOY, Sveio: Mølstre (59.516399, 5.277373) (EIS 22) September 2016, 1♀ (MT); RY, Karmøy: Skår (59.287979, 5.264283) (EIS 13), July 2017, 1♀ (MT); Suldal: Finnvik (59.448504, 6.021319) (EIS 14) August 2016, 1♀ (MT); Vindafjord: Oppsalsneset (59.29479, 5.52589) (EIS 14), June 2017, 1♂ (MT); August 2018, 1♀ (MT).

Distribution: Palearctic; Norway, Finland, Sweden.

***Tycherus amaenus* (Wesmael, 1845)**

Material: RY, Vindafjord: Oppsalsneset (59.29479, 5.52589) (EIS 14) May 2017, 1♀ (MT), det. Erich Diller.

Distribution: Palearctic; Norway, Finland, Sweden.

***Tycherus vafer* (Wesmael, 1845)**

Material: RY, Vindafjord: Oppsalsneset (59.29479, 5.52589) (EIS 14) July 2018, 3♂♂ (MT), det. Erich Diller.

Distribution: Palearctic; Norway, Finland.

METOPIINAE

***Carria paradoxa* Schmiedeknecht, 1924**

Material: RY, Karmøy: Skår (59.287979, 5.264283) (EIS 13), May 2017, 1♂ (MT); Suldal: Finnvik (59.448504, 6.021319) (EIS 14) May 2017, 1♀ (MT).

Distribution: Palearctic; Norway, Finland.

***Synosis caesiellae* Broad & Shaw, 2005**

Material: RY, Karmøy: Skår (59.287979, 5.264283) (EIS 13), July 2018, 1♀ (MT); September 2016, 1♀ (MT); Suldal: Finnvik (59.448504, 6.021319) (EIS 14) June 2018, 1♀ (MT); August 2018, 1♀ (MT); October 2017, 5♀♀ (MT).

Distribution: Palearctic; Norway, Sweden.

OPHIONINAE

***Enicospilus ryrholmi* Johansson, 2018**

Material: TEI, Bø: Kvennøya (59.4313, 9.05228) (EIS 18) 19 July 2019, 2♂♂2♀♀ (SN).

Distribution: Palearctic; Norway, Sweden.

***Ophion minutus* Kriechbaumer, 1879**

Material: RY, Suldal: Finnvik (59.448504, 6.021319) (EIS 14) June 2019, 1♀ (MT).

Distribution: Palearctic; Norway, Sweden.

ORTHOPELMATINAE

***Orthopelma brevicorne* Morley, 1907**

Material: RY, Karmøy: Skår (59.287979, 5.264283) (EIS 13), May 2018, 1♀ (MT).

Distribution: Palearctic; Norway, Finland, Sweden.

PHYGADEUONTINAE

***Acrolyta flagellator* Schwarz & Shaw, 2000**

Material: RY, Karmøy: Skår (59.287979, 5.264283) (EIS 13), August 2018, 1♀ (MT); Suldal: Finnvik (59.448504, 6.021319) (EIS 14) July 2018, 2♀♀ (MT); October 2017, 2♀♀ (MT).

Distribution: Palearctic; Norway, Finland.

***Acrolyta pseudonens* Schwarz & Shaw, 2000**

Material: RY, Vindafjord: Oppsalsneset (59.29479, 5.52589) (EIS 14) September 2017, 1♀ (MT); Suldal: Finnvik (59.448504, 6.021319) (EIS 14) 6♀♀ Ex. Braconid cocoons found together with Lepidopera larva closely resembling *Poecilocampa populi* (L., 1758) (Lasiocampidae) 10 June 2016.

Note: I have compared this material to a specimen of *Acrolyta pseudonens* Schwarz & Shaw, 2000 with same data as the holotype: [Scotland] ‘Stenton, E. Lothian H: *Poecilocampa populi*. On trunk *Alnus glutinosa* *Apanteles* cocoons coll. 6.7.80 PIE: 16.7.80 M. R. Shaw’, ‘Hyperparasite via *Apanteles spurius* (Wesm.) (held at the National Museums of Scotland).

Distribution: Palearctic; Norway.

***Endasys euxestus* (Speiser, 1908)**

Material: RY, Karmøy: Skår (59.287979, 5.264283) (EIS 13), 14–27 June 2015, 1♀ (MT) det. Reijo Jussila; June 2016, 1♀ (MT).

Distribution: Palearctic; Norway, Finland, Sweden.

***Endasys varipes* (Gravenhorst, 1829)**

Material: RY, Karmøy: Skår (59.287979, 5.264283) (EIS 13), June 2016, 1♀ (MT) det. Martin Schwarz.

Distribution: Palearctic; Norway, Finland, Sweden.

***Gelis cayennator* (Thunberg, 1822)**

Material: HOY, Sveio: Mølstre (59.516399, 5.277373) (EIS 22) May 2017, 1♀ (MT); July 2014, 6♀♀ (MT); RY, Karmøy: Skår (59.287979, 5.264283) (EIS 13), June 2015, 1♀ (MT); June 2016, 2♀♀ (MT); July 2016, 1♀ (MT); July 2018, 1♀ (MT); August 2016, 3♀♀ (MT); Suldal: Finnvik (59.448504, 6.021319) (EIS 14) May 2016, 1♀ (MT); July 2018, 4♀ (MT); August, 2♀♀ (MT); Vindafjord: Oppsalsneset (59.29479, 5.52589) (EIS 14) July 2018, 2♀♀ (MT); August 2018, 1♀ (MT).

Distribution: Palearctic; Norway, Sweden (Schwarz (2016)).

***Gelis sanguinipectus* (Schmiedeknecht, 1932)**

Material: RY, Karmøy: Skår (59.287979, 5.264283) (EIS 13), June 2016, 5♀♀ (MT); June 2017, 1♀ (MT); June 2018, 1♀ (MT); July 2015, 2♀♀ (MT); August 2015, 1♀ (MT); August 2018, 1♀ (MT); September 2016, 2♀♀ (MT); September 2017, 1♀ (MT); September 2018, 1♀ (MT).

Distribution: Palearctic; Norway, Finland.

***Isadelphus minutus* Horstmann, 2009**

Material: RY, Suldal: Finnvik (59.448504, 6.021319) (EIS 14) May 2018, ♀ (MT).

Distribution: Palearctic; Norway.

***Mastrus longulus* Horstmann, 1990**

Material: RY, Suldal: Finnvik (59.448504, 6.021319) (EIS 14) August 2016, 1♀ (MT) det. Martin Schwarz.

Distribution: Palearctic; Norway.

***Mastrus silbernageli* (Kiss, 1929)**

Material: HOY, Sveio: Mølstre (59.516399, 5.277373) (EIS 22) May 2016, 1♀ (MT); June 2017, 1♀ (MT); August 2014, 2♀♀ (MT); August 2019, 1♀ (MT); RY, Karmøy: Skår (59.287979, 5.264283) (EIS 13), June 2015, 2♀♀ (1♀ det. Martin Schwarz) (MT); July 2016, 1♀ (MT); July 2018, 1♀ (MT); August 2016, 1♀ (MT); Suldal: Finnvik (59.448504, 6.021319) (EIS 14) October 2017, 2♀♀ (MT).

Distribution: Palearctic; Norway.

***Megacara hortulana* (Gravenhorst, 1829)**

Material: HOY, Sveio: Mølstre (59.516399, 5.277373) (EIS 22) July 2014, 1♀ (MT); RY, Suldal: Finnvik (59.448504, 6.021319) (EIS 14) July 2016, 1♀ (MT).

Distribution: Palearctic; Norway, Finland, Sweden.

***Orthizema nigriventre* Horstmann, 1992**

Material: RY, Suldal: Finnvik (59.448504, 6.021319) (EIS 14) September 2013, 1♀ (MT) det. Martin Schwarz.

Distribution: Palearctic; Norway, Finland.

***Phygadeuon melanopygus* (Gravenhorst, 1829)**

Material: HOY, Sveio: Mølstre (59.516399, 5.277373) (EIS 22) August 2016, 1♀ (MT); RY, Karmøy: Skår (59.287979, 5.264283) (EIS 13), June 2016, 1♀ (MT) det. Martin Schwarz; September 2017, 1♀ (MT).

Distribution: Palearctic; Norway, Finland, Sweden.

***Phygadeuon melanurator* (Aubert, 1995)**

Material: HOY, Sveio: Mølstre (59.516399, 5.277373) (EIS 22) June 2017, 1♀ (MT); RY, Suldal: Finnvik (59.448504, 6.021319) (EIS 14) May 2018, 1♀ (MT); June 2018, 1♀ (MT); Vindafjord: Oppsalsneset (59.29479, 5.52589) (EIS 14) May 2016, 1♀ (MT); September 2016, 1♀ (MT) det. Martin Schwarz; September 2017, 2♀♀ (MT).

Distribution: Palearctic; Norway.

***Platyrhabdus inflatus* (Thomson, 1884)**

Material: RY, Karmøy: Skår (59.287979, 5.264283) (EIS 13), October 2012, 1♀ (MT) det. Martin Schwarz.

Distribution: Palearctic; Norway, Sweden.

***Stibeutes breviareolatus* (Thomson, 1884)**

Material: RY, Suldal: Finnvik (59.448504, 6.021319) (EIS 14) June 2018, 1♀ (MT) det. Martin Schwarz.

Distribution: Palearctic; Norway, Sweden.

***Stibeutes heterogaster* (Thomson, 1885)**

Material: HOY, Sveio: Mølstre (59.516399, 5.277373) (EIS 22) June 2015, 1♂ (MT); July 2014, 2♂♂ (MT) det. Martin Schwarz; July 2016 3♂♂ (MT); July 2019, 3♀♀ (MT); September 2013, 1♀ (MT); RY, Vindafjord: Oppsalsneset (59.29479, 5.52589) (EIS 14) June 2018, 1♂ (MT); July 2016, 3♂♂ (MT); July 2017, 1♀ (MT); August 2018, 1♀ (MT).

Distribution: Palearctic; Norway, Sweden.

***Therospocus ochrogaster* (Thomson, 1888)**

Material: RY, Suldal: Finnvik (59.448504, 6.021319) (EIS 14) June 2017, 1♀ (MT) det. Martin Schwarz.

Distribution: Palearctic; Norway, Finland, Sweden.

***Therospocus pedicellatus* Horstmann, 1998**

Material: RY, Suldal: Finnvik (59.448504, 6.021319) (EIS 14) June 2016, 1♀ (MT) det. Martin Schwarz.

Distribution: Palearctic; Norway, Sweden.

***Uchidella flavilabris* Horstmann, 1993**

Material: RY, Karmøy: Skår (59.287979, 5.264283) (EIS 13), July 2018, 1♀ (MT); Suldal: Finnvik (59.448504, 6.021319) (EIS 14) July 2017, 1♂ (MT).

Distribution: Palearctic; Norway, Sweden.

***Zoophthorus bridgmani* (Schmiedeknecht, 1897)**

Material: HOY, Sveio: Mølstre (59.516399, 5.277373) (EIS 22) May 2016, 1♀ (MT); May 2017, 1♀ (MT); June 2014, 1♀ (MT); June 2019, 1♀ (MT); RY, Karmøy: Skår (59.287979,

5.264283) (EIS 13), May 2016, 2♀♀ (MT); May 2017, 1♀ (MT); May 2018, 1♀ (MT); June 2015, 1♀ (MT); June 2016, 4♀♀ (MT) (1♀ det. Martin Schwarz); June 2017, 1♀ (MT); July 2016, 4♀♀ (MT); Suldal: Finnvik (59.448504, 6.021319) (EIS 14) May 2018, 1♀. (MT); June 2017, 1♀. (MT); Vindafjord: Oppsalsneset (59.29479, 5.52589) (EIS 14) May 2017, 1♀ (MT).

Distribution: Palearctic; Norway.

***Zoophthorus palpator* (Müller, 1776)**

Material: HOY, Sveio: Mølstre (59.516399, 5.277373) (EIS 22) July 2014, 1♀ (MT) det. Martin Schwarz; RY, Vindafjord: Oppsalsneset (59.29479, 5.52589) (EIS 14) June 2018, 1♀ (MT); August 2016, 1♀ (MT).

Distribution: Palearctic; Norway, Finland, Sweden.

PIMPLINAE

***Endromopoda nigricoxis* (Ulbricht, 1910)**

Material: HOY, Sveio: Mølstre (59.516399, 5.277373) (EIS 22) May 2016, 2♀♀ (MT); May 2019, 1♀ (MT); June 2019, 8♀♀ (MT); July 2019, 3♀♀ (MT); RY, Karmøy: Skår (59.287979, 5.264283) (EIS 13), June 2016, 1♀ (MT); Suldal: Finnvik (59.448504, 6.021319) (EIS 14) June 2019, 3♀♀ (MT).

Distribution: Palearctic; Norway, Finland.

***Exeristes ruficollis* (Gravenhorst, 1829)**

Material: RY, Suldal: Finnvik (59.448504, 6.021319) (EIS 14) June 2018, 1♀. (MT); July 2019, 1♀. (MT).

Distribution: Palearctic; Norway, Sweden.

***Gregopimpla inquisitor* (Scopoli, 1763)**

Material: RY, Suldal: Finnvik (59.448504, 6.021319) (EIS 14) June 2016, 1♀. (MT).

Distribution: Palearctic; Norway, Finland, Sweden.

***Megaetaira madida* (Haliday, 1838)**

Material: RY, Karmøy: Skår (EIS 13), June 2012, 1♂ (SLAM trap); Suldal: Finnvik (59.448504, 6.021319) (EIS 14) June 2013, 2♂♂ (MT).

Distribution: Palearctic; Norway, Finland, Sweden.

STILBOPINAE

Panteles schuetzeanus (Roman, 1925)

Material: RY, Suldal: Finnvik (59.448504, 6.021319) (EIS 14) July 2018, 1♀ (MT).

Distribution: Palearctic; Norway, Finland, Sweden.

TERSILOCHINAE

Probes (Microdiaparsis) caudiculatus Khalaim, 2007

Material: RY, Suldal: Finnvik (59.448504, 6.021319) (EIS 14) June 2019, 1♀ (MT); July 2016, 1♀ (MT).

Distribution: Palearctic; Norway.

Probes (Rugodiaparsis) crassipes (Thomson, 1889)

Material: Material: HOY, Sveio: Mølstre (59.516399, 5.277373) (EIS 22) July 2019, 1♀ (MT).

Distribution: Palearctic; Norway, Finland.

TRYPHONINAE

Cteniscus pedatorius (Panzer, 1809)

Material: RY, Karmøy: Skår (59.287979, 5.264283) (EIS 13), 17 August 2019, 1♀ (SN).

Distribution: Palearctic; Norway, Finland, Sweden.

Ctenochira epipleuralis Kasparyan, 2013

Material: RY, Suldal: Finnvik (59.448504, 6.021319) (EIS 14) May 2018, 1♀ (MT); May/June 2019, 16♂♂ 2♀♀ (MT).

Distribution: Palearctic; Norway.

Ctenochira flavicauda (Roman, 1912)

Material: RY, Karmøy: Skår (59.287979, 5.264283) (EIS 13), June 2017, 1♀ (MT); June 2018, 3♀♀ (MT).

Distribution: Palearctic; Norway, Finland.

Eridolius unguularis Kasparyan, 1984

Material: RY, Suldal: Finnvik (59.448504, 6.021319) (EIS 14) June 2016, 1♀ (MT); July

2018, 1♀ (MT).

Distribution: Palearctic; Norway.

Phytodietus (Phytodietus) femoralis Holmgren, 1860

Material: RY, Karmøy: Skår (59.287979, 5.264283) (EIS 13), May 2018, 1♂ (MT); June 2015, 1♀ (MT); July 2015 1♂ (MT); July 2018, 1♀ (MT).

Distribution: Palearctic; Norway, Sweden.

Smicroplectrus borealis Kasparyan, 1984

Material: RY, Karmøy: Skår (59.287979, 5.264283) (EIS 13), May 2018, 1♀ (MT).

Distribution: Palearctic; Norway

Discussion

As stated in the introduction about 2000 species of ichneumonid wasps are known from Norway, still the numbers are much higher in adjacent Nordic countries: Yu *et al.* (2016) reports 2766 taxa for Finland and 2794 for Sweden. With the possibility of about 1000 species yet to be found, few insect families represent a greater lack in current knowledge, and potential for new discoveries in Norway.

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