

Ichneumonidae (Hymenoptera) species new to the fauna of Norway

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Abstract

The present paper contains new distributional records for 61 species of ichneumon wasps (Hymenoptera, Ichneumonidae) previously unknown for Norway, six of them are reported from Scandinavia for the first time.

Keywords

Ichneumon wasps, Ichneumonidae, Norway, Scandinavia, new records

Introduction

The Ichneumonidae are the largest family within Hymenoptera, and one of the largest among insects. Due to the great diversity and difficulties in identification of many species in this group, our knowledge of the Norwegian fauna remains insufficient. During the last twenty years, more than 500 species of Ichneumonidae were reported as new to the fauna of Norway (Kopelke 1994, Riedel and Berg 1997, Riedel et al. 2000, Horstmann 2004, Riedel et al. 2005, Riedel and Hansen 2007, Kasparyan and Kopelke 2009, Hansen et al. 2010, Kasparyan and Kopelke 2010, Humala and Reshchikov 2012, Riedel and Hansen 2012, Reshchikov 2013, Riedel and Hansen 2013). Although in total more than 1700 species of Ichneumonidae have been listed for Norway so far, the published checklists from adjacent territories (Koponen et al. 1995, Broad 2011) suggest that the Norwegian list is still very incomplete.

Materials and methods

During the 2011 field season, ichneumonids were sampled in many localities across the southern half of the country. The division of Norway in administrative regions (counties)

applied in faunistic studies is shown on the map (Fig. 1). The northern-most provinces of Norway were not sampled due to time constraints of the project. The light-weight Malaise traps were the main method of collecting, although yellow pan traps and netting were also used.

The original collected material and voucher specimens for DNA barcoding are deposited at the Natural History Museum, University of Oslo, Norway.

Additional material was borrowed from the following museums: The Museum of Natural History and Archaeology, Trondheim; University Museum of Bergen; reared material of the genus *Saotis* Förster, 1869 was provided by Department of Biology, University of Eastern Finland. Species identification in subfamily Ctenopelmatinae was confirmed by comparison with the type specimens deposited in Swedish museums (The Swedish Museum of Natural History, Stockholm; Zoological Institute of Uppsala University; Zoological Institute, Lund). All taxa are listed in alphabetic order according to the recent Catalogue of World Ichneumonidae (Yu et al. 2012). Species distributions are based on the same catalogue and Fauna Europaea website (Achterberg van and Zwakhals 2004) with minor changes. The terms Palaearctic and Western Palaearctic are used to specify how wide is distribution. Species distributions in Fennoscandia, in the countries adjacent or faunistically similar to Norway are given in more detail after biogeographic region name. The following abbreviations are used in the text:

NTNU – Trondheim Museum of Natural History and Archaeology (Vitenskapsmuseet)

NW – North-Western

UEF – University of Eastern Finland

ZMUN – Natural History Museum, University of Oslo

Species new to Norway

Norway

Locality: continent: Europa country: Norway

Subfamily Acaenitinae Förster, 1869

Tribe Coleocentrini Clément, 1938

***Coleocentrus caligatus* Gravenhorst, 1829**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Coleocentrus*; specificEpithet: *caligatus*; scientificNameAuthorship: Gravenhorst, 1829; country: Norway; stateProvince: Aust-Agder; verbatimLocality: Risør; eventDate: 28.VI.1906; individualCount: 1; sex: female; recordedBy: Thorstensen; identifiedBy: Andrei E. Humala; collectionCode: ZMUN; occurrenceID: 001369F5-D709-5E30-BBCB-9A10CD8DFAF4

Distribution: Palaearctic; Finland, Sweden and NW Russia (Karelia).

Subfamily Adelognathinae Thomson, 1888

***Adelognathus difformis* Holmgren, 1857**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Adelognathus*; specificEpithet: *difformis*; scientificNameAuthorship: Holmgren, 1857; country: Norway; stateProvince: Akerhus; verbatimLocality: Ullensaker, Sessvollmoen, Aurtjernet W; verbatimElevation: 200 m; samplingProtocol: Malaise trap; eventDate: 30.VIII-1.X.2008; habitat: sandy pine forest; individualCount: 1; sex: female; recordedBy: L.O. Hansen; identifiedBy: Andrei E. Humala; institutionCode: ZMUN; occurrenceID: 81E95250-76D7-587E-9871-DE1885A88249

Distribution: Holarctic; Sweden, Finland and NW Russia (Leningrad region).

***Adelognathus rufithorax* Kasparyan, 1990**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Adelognathus*; specificEpithet: *rufithorax*; scientificNameAuthorship: Kasparyan, 1990; country: Norway; stateProvince: Sogn og Fjordane; verbatimLocality: Leikanger, Kvinnefossen waterfall; verbatimElevation: 60 m; verbatimLatitude: 61°12'30.2" N; verbatimLongitude: 06°38'52.0" E; samplingProtocol: Malaise trap; eventDate: 6.VII-30.VIII.2011; habitat: spruce forest with juniper; individualCount: 1; sex: female; recordedBy: Andrei E. Humala & Alexey Reshchikov; identifiedBy: Andrei E. Humala; institutionCode: ZMUN; occurrenceID: 5DD24557-3F0E-5FEF-B9C5-2B2C72254174

Distribution: Palaearctic; NW Russia (Leningrad region).

Notes: New to Scandinavia.

***Adelognathus stelfoxi* Fitton, Gauld & Shaw, 1982**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Adelognathus*; specificEpithet: *stelfoxi*; scientificNameAuthorship: Fitton, Gauld & Shaw, 1982; country: Norway; stateProvince: Akerhus; verbatimLocality: Ullensaker, Sessvollmoen W; verbatimElevation: 204 m; samplingProtocol: Malaise trap; eventDate: 26.VI-25.VIII.2007; habitat: sandy pine forest; individualCount: 1; sex: female; recordedBy: L.O. Hansen; identifiedBy: Andrei E. Humala; institutionCode: ZMUN; occurrenceID: 089DC31B-D78D-5C05-BE8B-89337B1FF2F6

Distribution: Palaearctic; Finland.

Subfamily Banchinae Wesmael, 1845

Tribe Glyptini Cushman & Rohwer, 1920

***Glypta (Glypta) consimilis* Holmgren, 1860**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Glypta*; subgenus: *Glypta*; specificEpithet: *consimilis*; scientificNameAuthorship: Holmgren, 1860; country: Norway; stateProvince: Aust-Agder; verbatimLocality: Lillesand, Froholt; verbatimElevation: 53 m; verbatimLatitude: 58°19'33.9" N; verbatimLongitude: 08°18'15.5" E; samplingProtocol: Malaise trap; eventDate: 30.VI-23.VIII.2011; habitat: oak forest; individualCount: 1; sex: female; recordedBy: Andrei E. Humala & Alexey Reshchikov; identifiedBy: Andrei E. Humala; institutionCode: ZMUN; occurrenceID: 24E82DC9-FFCF-5AF3-9FF8-4F2B2DB37A7B

Distribution: Holarctic; Finland, Sweden, Lithuania and NW Russia (Leningrad region).

Subfamily Campopleginae Förster, 1869

***Leptocampoplex cremastoides* (Holmgren, 1860)**

Materials

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Leptocampoplex*; specificEpithet: *cremastoides*; scientificNameAuthorship: (Holmgren, 1860); country: Norway; stateProvince: Aust-Agder; verbatimLocality: Lillesand, Froholt; verbatimElevation: 53 m; verbatimLatitude: 58°19'33.9" N; verbatimLongitude: 08°18'15.5" E; samplingProtocol: Malaise trap; eventDate: 30.VI-23.VIII.2011; habitat: oak forest; individualCount: 1; sex: female; recordedBy: Andrei E. Humala & Alexey Reshchikov; identifiedBy: Andrei E. Humala; institutionCode: ZMUN; occurrenceID: 689EE280-701E-5EBC-A022-4F3D601E52DA

- b. order: Hymenoptera; family: Ichneumonidae; genus: *Leptocampoplex*; specificEpithet: *cremastoides*; scientificNameAuthorship: (Holmgren, 1860); country: Norway; stateProvince: Aust-Agder; verbatimLocality: Lillesand, Vestre Grimevann lake; verbatimLatitude: 58°19'23.1" N; verbatimLongitude: 08°20'09.1" E; samplingProtocol: Malaise trap; eventDate: 29.VI-23.VIII.2011; habitat: oak forest; individualCount: 1; sex: female; recordedBy: Andrei E. Humala & Alexey Reshchikov; associatedSequences: voucher for DNA barcoding AH057; identifiedBy: Andrei E. Humala; institutionCode: ZMUN; occurrenceID: F22CED23-3D67-5B47-B375-C9AF2E73F420

Distribution: Holarctic; Finland, Sweden and NW Russia (Karelia).

***Rhimphoctona (Xylophylax) rufocoxalis* (Clément, 1924)**

Materials

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Rhimphoctona*; subgenus: *Xylophylax*; infraspecificEpithet: *rufocoxalis*; scientificNameAuthorship: (Clément, 1924); country: Norway; stateProvince: Nord Trøndelag; verbatimLocality: Høylandet, Skiftesåa; samplingProtocol: Malaise trap; eventDate: 2.VII.1987; individualCount: 1; sex: female; recordedBy: Kaare Aagaard; identifiedBy: Andrei E. Humala; institutionCode: NTNU; occurrenceID: 680FACD7-31C3-5EF8-BB1E-0E3642F9F2B3
- b. order: Hymenoptera; family: Ichneumonidae; genus: *Rhimphoctona*; subgenus: *Xylophylax*; infraspecificEpithet: *rufocoxalis*; scientificNameAuthorship: (Clément, 1924); country: Norway; stateProvince: Nord Trøndelag; verbatimLocality: Høylandet, Skiftesåa; samplingProtocol: Malaise trap; eventDate: 22.VII.1987; individualCount: 2; sex: females; recordedBy: Kaare Aagaard; identifiedBy: Andrei E. Humala; institutionCode: NTNU; occurrenceID: 3B31D3A5-5566-5516-BA86-342BF325262C
- c. order: Hymenoptera; family: Ichneumonidae; genus: *Rhimphoctona*; subgenus: *Xylophylax*; infraspecificEpithet: *rufocoxalis*; scientificNameAuthorship: (Clément, 1924); country: Norway; stateProvince: Nord Trøndelag; verbatimLocality: Høylandet, Tverrråa; verbatimElevation: 340 m; samplingProtocol: Malaise trap; eventDate: 30.VII.1986; individualCount: 1; sex: female; recordedBy: Kaare Aagaard; identifiedBy: Andrei E. Humala; institutionCode: NTNU; occurrenceID: E18EAC3E-0CB8-5D00-A64F-39CA344C6E43

Distribution: Palaearctic; Sweden and NW Russia (Karelia).

Subfamily Cryptinae Kirby, 1837

Tribe Cryptini Kirby, 1837

***Ateleute linearis* Förster, 1871**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Ateleute*; specificEpithet: *linearis*; scientificNameAuthorship: Förster, 1871; country: Norway; stateProvince: Aust-Agder; verbatimLocality: Lillesand, Vestre Grimevann lake; verbatimLatitude: 58°19'23.1" N; verbatimLongitude: 08°20'09.1" E; samplingProtocol: Malaise trap; eventDate:

29.VI-23.VIII.2011; habitat: oak forest; individualCount: 1; sex: male; recordedBy: Andrei E. Humala & Alexey Reshchikov; associatedSequences: voucher for DNA barcoding AH056; identifiedBy: Andrei E. Humala; institutionCode: ZMUN; occurrenceID: 4A6DE216-8B93-525D-94EA-B0A8B269C93C

Distribution: Western Palaearctic; Finland, Sweden and NW Russia (Karelia, Leningrad region).

Subfamily Ctenopelmatinae Förster, 1869

Tribe Ctenopelmatini Förster, 1869

Ctenopelma boreale Holmgren, 1857

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Ctenopelma* ; specificEpithet: *boreale*; scientificNameAuthorship: Holmgren, 1857; country: Norway; stateProvince: Hedmark; verbatimLocality: Vestmarka; eventDate: 5.VII.1997; individualCount: 1; sex: male; recordedBy: Ole Lønnve; identifiedBy: Alexey Reshchikov; institutionCode: ZMUN; occurrenceID: 2FA7B08D-3E19-5512-ACAB-C4B25E458B61

Distribution: Palaearctic; Sweden, Finland and NW Russia (Karelia).

Notes: According to Kasparyan (Kasparyan and Khalaim 2007) *C. boreale* Holmgren is a distinct species.

Ctenopelma lapponicum Holmgren, 1857

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Ctenopelma* ; specificEpithet: *lapponicum*; scientificNameAuthorship: Holmgren, 1857; country: Norway; stateProvince: Oppland; verbatimLocality: Dørålsæter; eventDate: 25.VI.1986; individualCount: 1; sex: female; recordedBy: John O. Solem; identifiedBy: Alexey Reshchikov; institutionCode: NTNU; occurrenceID: A0B10E62-7BBB-5818-BB8D-FB606511082B

Distribution: Palaearctic; Sweden, Finland and NW Russia (Karelia).

Ctenopelma nigrum Holmgren, 1857

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Ctenopelma* ; specificEpithet: *nigrum* ; scientificNameAuthorship: Holmgren, 1857; country: Norway; stateProvince: Vestfold; verbatimLocality: Larvik; eventDate: 25.VI.1911; individualCount: 1; sex: female; recordedBy: Remharat; identifiedBy: Alexey Reshchikov; institutionCode: ZMUN; occurrenceID: C81A721A-7B98-56FF-80F7-90208ED1CDC3

Distribution: Palaearctic; Sweden, Finland, Latvia and NW Russia (Karelia).

***Ctenopelma tomentosum* (Desvignes, 1856)**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Ctenopelma* ; specificEpithet: *tomentosum* ; scientificNameAuthorship: (Desvignes, 1856); country: Norway; stateProvince: Østfold; verbatimLocality: Hvaler, Huser; eventDate: 8.VIII.2001; individualCount: 1; sex: female; recordedBy: Ove Sørlibråten; identifiedBy: Alexey Reshchikov; institutionCode: ZMUN; occurrenceID: 03AAE18B-419C-5D3E-BD81-DE10C12CAA74

Distribution: Palaearctic; Sweden, Finland, Latvia, Lithuania and NW Russia (Karelia).

***Homaspis subalpina* Schmiedeknecht, 1913**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Homaspis* ; specificEpithet: *subalpina* ; scientificNameAuthorship: Schmiedeknecht, 1913; country: Norway; stateProvince: Hedmark; verbatimLocality: Kongsvinger, Vennerberg, Langerutberget; eventDate: 3.VI.2005; individualCount: 1; sex: female; recordedBy: Ove Sørlibråten; identifiedBy: Alexey Reshchikov; institutionCode: ZMUN; occurrenceID: ACE8DE4C-64AD-560B-AC91-2C267FA14CA9

Distribution: Palaearctic; Finland and NW Russia (Karelia).

***Xenoschesis (Polycinetis) fulvicornis* (Kriechbaumer, 1891)**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Xenoschesis* ; subgenus: *Polycinetis*; specificEpithet: *fulvicornis*; scientificNameAuthorship: (Kriechbaumer, 1891); country: Norway; stateProvince: Hedmark; verbatimLocality: Eidskog, Vestmarka, Hornåsen; eventDate: 13.VI.2004; individualCount: 1; sex: female; recordedBy: Ove Sørlibråten; identifiedBy: Alexey Reshchikov; institutionCode: ZMUN; occurrenceID: 3BA3A0B5-826A-5E25-B235-AD6C0E01D124

Distribution: Western Palaearctic; Finland and Latvia.

Tribe Euryproctini Thomson, 1883

***Euryproctus geniculosus* (Gravenhorst, 1829)**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Euryproctus* ; specificEpithet: *geniculosus*; scientificNameAuthorship: (Gravenhorst, 1829); country: Norway;

stateProvince: Aust-Agder; verbatimLocality: Arendal, Hissey; eventDate: 18.VII.1954; individualCount: 1; sex: female; recordedBy: A. Bakke ; identifiedBy: Alexey Reshchikov; institutionCode: ZMUN; occurrenceID: ABED36FE-19C5-5535-9860-7AD0E0B29816

Distribution: Western Palaearctic; Denmark, Finland, Sweden, Latvia, Lithuania and NW Russia (Leningrad region).

***Syndipnus pannicularius* (Holmgren, 1857)**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Syndipnus* ; specificEpithet: *pannicularius*; scientificNameAuthorship: (Holmgren, 1857); country: Norway; stateProvince: Hedmark; verbatimLocality: Storelvdal, Atnaelv, Solbakken; samplingProtocol: Malaise trap; eventDate: 24.VI.1986; individualCount: 1; sex: female; recordedBy: John O. Solem; identifiedBy: Alexey Reshchikov; institutionCode: NTNU; occurrenceID: F0426B41-6835-5840-A62E-A1215A0DA71C

Distribution: Holarctic; Sweden and Finland.

Tribe Mesoleiini Thomson, 1883

***Saotis albionis* Kasparyan, 2007**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Saotis* ; specificEpithet: *albionis* ; scientificNameAuthorship: Kasparyan, 2007; country: Norway; stateProvince: Hedmark; verbatimLocality: Atnaelv, Solbakken; samplingProtocol: Malaise trap; eventDate: 24.VI.1986; individualCount: 2; sex: females; recordedBy: John O. Solem; identifiedBy: Alexey Reshchikov; institutionCode: NTNU; occurrenceID: 7915C209-BCBA-52A3-A2CC-E5A451CA4311

Distribution: Holarctic; United Kingdom, Finland.

***Saotis heteropus* (Thomson, 1883)**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Saotis* ; specificEpithet: *heteropus* ; scientificNameAuthorship: (Thomson, 1883); country: Norway; stateProvince: Hedmark; verbatimLocality: Atnaelv, Solbakken; samplingProtocol: Malaise trap; eventDate: 24.VI.1986; individualCount: 1; sex: female; recordedBy: John O. Solem; identifiedBy: Alexey Reshchikov; institutionCode: NTNU; occurrenceID: B6565821-3C9B-5B18-9C5F-E59F8D0DF8E2

Distribution: Holarctic; Sweden, Finland and NW Russia (Leningrad region).

***Saotis pygidiator* subsp. *arctor* Kasparyan, 2009**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Saotis* ; specificEpithet: *pygidiator*; infraspecificEpithet: *arctor*; scientificNameAuthorship: Kasparyan, 2009; country: Norway; stateProvince: Nordland; verbatimLocality: Bodø, Nordstranda, Skjelstadt; eventDate: 27.VI.1995; individualCount: 1; sex: female; recordedBy: H. Elven; identifiedBy: Alexey Reshchikov; institutionCode: UEF; occurrenceID: C7E909A5-000A-5BF3-9E27-885D0E909523

Distribution: Western Palaearctic.

Notes: New to Scandinavia.

Tribe Perilissini Thomson, 1883

***Perilissus compressus* Thomson, 1883**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Perilissus* ; specificEpithet: *compressus* ; scientificNameAuthorship: Thomson, 1883; country: Norway; stateProvince: Hedmark; verbatimLocality: Storelvdal, Atnaelv, Solbakken; samplingProtocol: Malaise trap; eventDate: 24.VI.1986; individualCount: 1; sex: female; recordedBy: John O. Solem; identifiedBy: Alexey Reshchikov; institutionCode: NTNU; occurrenceID: 6BDC9BC7-6967-5A22-B8A8-48D4CA0B8B9A

Distribution: Western Palaearctic; Sweden and Finland.

***Synoecetes anterior* (Thomson, 1894)**

Material

- a. order: Hymenoptera; family: Ichneumonidae; country: Norway; stateProvince: Hedmark; verbatimLocality: Storelvdal, Atnaelv, Solbakken; samplingProtocol: Malaise trap; eventDate: 24.VI.1986; individualCount: 1; sex: female; recordedBy: John O. Solem; identifiedBy: Alexey Reshchikov; institutionCode: NTNU; occurrenceID: DD8E5C55-EAF2-5CC9-85A8-37FC68399EC4

Distribution: Western Palaearctic; Sweden.

Tribe Pionini Smith & Shenefelt, 1955

***Asthenara socia* (Holmgren, 1857)**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Asthenara* ; subgenus: *socia* ; scientificNameAuthorship: (Holmgren, 1857); country: Norway; stateProvince: Nord-Trøndelag; verbatimLocality: Hoylandet, Tverråa stream; verbatimElevation: 340 m; verbatimLatitude: 64.39° N; verbatimLongitude: 12.08° E; eventDate: 18.VII.1986; individualCount: 8; sex: 7 females, 1 male; recordedBy: K. Aagaard; identifiedBy: Alexey Reshchikov; institutionCode: NTNU; occurrenceID: 02CD56EB-912D-54F1-9D2D-0B4B7155654A

Distribution: Western Palaearctic; Sweden, Finland, Lithuania and NW Russia (Karelia).

***Glyptorhaestus punctatus* (Thomson, 1890)**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Glyptorhaestus* ; specificEpithet: *punctatus* ; scientificNameAuthorship: (Thomson, 1890); country: Norway; stateProvince: Akerhus; verbatimLocality: Oslo, Ekebergstraninger; samplingProtocol: Malaise trap; eventDate: 29.V-27.VI.2007; individualCount: 1; sex: female; recordedBy: L.O. Hansen; identifiedBy: Alexey Reshchikov; institutionCode: ZMUN; occurrenceID: A785C055-121A-50D6-BB90-37F335861A49

Distribution: Palaearctic; Sweden, Finland, Lithuania and Latvia.

***Lethades lapponator* Hinz, 1976**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Lethades* ; specificEpithet: *lapponator* ; scientificNameAuthorship: Hinz, 1976; country: Norway; stateProvince: Sør-Trøndelag; verbatimLocality: Oppdal, Kongsvoll, Gavalibk; eventDate: 13.VII.1982; individualCount: 4; sex: females; recordedBy: John O. Solem; identifiedBy: Alexey Reshchikov; institutionCode: NTNU; occurrenceID: 9D7A347C-136C-531A-9C6F-4293E556563B

Distribution: Western Palaearctic; Sweden.

***Rhaestus ophthalmicus* (Holmgren, 1857)**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Rhaestus* ; specificEpithet: *ophthalmicus* ; scientificNameAuthorship: (Holmgren, 1857); country: Norway; stateProvince: Sør-Trøndelag; verbatimLocality: Oppdal, Kongsvoll, Blesbekken; samplingProtocol: Malaise trap; eventDate: 10.VII.1980; individualCount: 4; sex: males;

recordedBy: John O. Solem; identifiedBy: Alexey Reshchikov; institutionCode: NTNU;
occurrenceID: 2CC302A2-6E06-5A10-88DF-46FF72347608

Distribution: Palaearctic; Sweden, Finland and NW Russia (Karelia, Leningrad region).

***Sympherta canaliculata* (Thomson, 1893)**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Sympherta* ; specificEpithet: *canaliculata* ; scientificNameAuthorship: (Thomson, 1893); country: Norway; stateProvince: Hedmark; verbatimLocality: Folldal, Atnaelv, Vollen; samplingProtocol: Malaise trap; eventDate: 18-25.VI.1986; individualCount: 1; sex: female; recordedBy: John O. Solem; identifiedBy: Alexey Reshchikov; institutionCode: NTNU; occurrenceID: 591FB0CA-AA9A-52A5-8082-C4929EDC0B74

Distribution: Western Palaearctic; Lithuania.

***Sympherta jactator* (Thunberg, 1824)**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Sympherta* ; specificEpithet: *jactator* ; scientificNameAuthorship: (Thunberg, 1824); country: Norway; stateProvince: Hedmark; verbatimLocality: Storelvdal, Solbakken; samplingProtocol: Malaise trap; eventDate: 24.VIII.1986; individualCount: 13; sex: 3 females, 10 males; recordedBy: John O. Solem; identifiedBy: Alexey Reshchikov; institutionCode: NTNU; occurrenceID: 67C70F08-2A45-5FB0-BC95-85E56CBA9D89

Distribution: Western Palaearctic; Sweden and NW Russia (Karelia).

***Sympherta splendens* (Strobl, 1903)**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Sympherta* ; specificEpithet: *splendens* ; scientificNameAuthorship: (Strobl, 1903); country: Norway; stateProvince: Akerhus; verbatimLocality: Oppegård, Svartskog, Rødstein; samplingProtocol: Malaise trap; eventDate: 4.VI-4.VII.2004; individualCount: 1; sex: female; recordedBy: Ole Lønnve; identifiedBy: Alexey Reshchikov; institutionCode: ZMUN; occurrenceID: 19522DF7-D4ED-5345-B9FA-7306560C3598

Distribution: Palaearctic; Finland and Lithuania.

***Sympherta sulcata* (Thomson, 1890)**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Sympherta* ; specificEpithet: *sulcata* ; scientificNameAuthorship: (Thomson, 1890); country: Norway; stateProvince: Akerhus; verbatimLocality: Opegård, Svartskog, Rødstein; samplingProtocol: Malaise trap; eventDate: 4.VI-4.VII.2004; individualCount: 1; sex: female; recordedBy: Ole Lønnve; identifiedBy: Alexey Reshchikov; institutionCode: ZMUN; occurrenceID: 944375C4-DCDE-5657-BD9B-35DD6698CD9D

Distribution: Palaearctic; Finland, Sweden and NW Russia (Karelia).

***Trematopygus rufator* Hinz, 1986**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Trematopygus* ; specificEpithet: *rufator* ; scientificNameAuthorship: Hinz, 1986; country: Norway; stateProvince: Nord-Trøndelag; verbatimLocality: Høylandet, Tverråa stream; samplingProtocol: Malaise trap; eventDate: 25.VI.1986; individualCount: 1; sex: female; recordedBy: John O. Solem; identifiedBy: Alexey Reshchikov; institutionCode: NTNU; occurrenceID: 5112A991-760A-53B2-9D72-9836D0C049ED

Distribution: Western Palaearctic; Sweden and Finland.

***Trematopygus terebrator* Hinz, 1986**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Trematopygus* ; specificEpithet: *terebrator* ; scientificNameAuthorship: Hinz, 1986; country: Norway; stateProvince: Nord-Trøndelag; verbatimLocality: Høylandet, Tverråa stream; samplingProtocol: Malaise trap; eventDate: 25.VI.1986; individualCount: 1; sex: female; recordedBy: John O. Solem; identifiedBy: Alexey Reshchikov; institutionCode: NTNU; occurrenceID: 12C04112-EF33-5A77-A9D6-F07C4ACD71A4

Distribution: Western Palaearctic; Sweden and Finland.

Subfamily Cyloceriinae Wahl, 1990

***Cylloceria caligata* (Gravenhorst, 1829)**

Materials

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Cylloceria*; specificEpithet: *caligata*; scientificNameAuthorship: (Gravenhorst, 1829); country: Norway; stateProvince: Hedmark; verbatimLocality: Folldal, Vollen; samplingProtocol: Malaise trap; eventDate:

- 8.VII.1986; individualCount: 6; sex: males; recordedBy: John O. Solem; identifiedBy: Andrei E. Humala; institutionCode: NTNU; occurrenceID: 85BD7329-E4E5-5914-B70C-CB8D4584A337
- b. order: Hymenoptera; family: Ichneumonidae; genus: *Cylloceria*; specificEpithet: *caligata*; scientificNameAuthorship: (Gravenhorst, 1829); country: Norway; stateProvince: Hedmark; verbatimLocality: Follidal, Vollen; samplingProtocol: Malaise trap; eventDate: 23.VIII.1986; individualCount: 2; sex: males; recordedBy: John O. Solem; identifiedBy: Andrei E. Humala; institutionCode: NTNU; occurrenceID: B00D3D56-F66E-566E-BEB5-D7518B2CBFC8
- c. order: Hymenoptera; family: Ichneumonidae; genus: *Cylloceria*; specificEpithet: *caligata*; scientificNameAuthorship: (Gravenhorst, 1829); country: Norway; stateProvince: Hedmark; verbatimLocality: Follidal, Vollen; verbatimElevation: 720 m; verbatimLatitude: 61°58'52" N; verbatimLongitude: 10°01'25" E; samplingProtocol: Malaise trap; eventDate: 11-18.VIII.2008; individualCount: 1; sex: male; recordedBy: E. Stur; identifiedBy: Andrei E. Humala; institutionCode: NTNU; occurrenceID: 8E823BC9-CCC6-5541-B412-FFEB7C292CD0
- d. order: Hymenoptera; family: Ichneumonidae; genus: *Cylloceria*; specificEpithet: *caligata*; scientificNameAuthorship: (Gravenhorst, 1829); country: Norway; stateProvince: Hedmark; verbatimLocality: Elverum, Starmoen NR (N); samplingProtocol: Malaise trap; eventDate: 29.VII-14.IX.2004; individualCount: 1; sex: female; recordedBy: L.O. Hansen and E. Rindal; identifiedBy: Andrei E. Humala; institutionCode: ZMUN; occurrenceID: 89FA46CA-FA99-5D01-927C-CAAE0D2E9192
- e. order: Hymenoptera; family: Ichneumonidae; genus: *Cylloceria*; specificEpithet: *caligata*; scientificNameAuthorship: (Gravenhorst, 1829); country: Norway; stateProvince: Akershus; verbatimLocality: Hurdal, Brustad; eventDate: 17.VIII.1996; individualCount: 1; sex: male; recordedBy: E. Heibo and O. Lønnve; identifiedBy: Andrei E. Humala; institutionCode: ZMUN; occurrenceID: 26C4F924-3710-5A05-9455-D09F10AA0A27
- f. order: Hymenoptera; family: Ichneumonidae; genus: *Cylloceria*; specificEpithet: *caligata*; scientificNameAuthorship: (Gravenhorst, 1829); country: Norway; stateProvince: Akershus; verbatimLocality: Ullensaker, Sessvollmoen, Aurtjernet W.; samplingProtocol: Malaise trap; eventDate: 26.VI-25.VIII.2008; individualCount: 12; sex: males; recordedBy: L.O. Hansen; identifiedBy: Andrei E. Humala; institutionCode: ZMUN; occurrenceID: 268C4360-7753-55C0-8560-CD9109643F40
- g. order: Hymenoptera; family: Ichneumonidae; genus: *Cylloceria*; specificEpithet: *caligata*; scientificNameAuthorship: (Gravenhorst, 1829); country: Norway; stateProvince: Akershus; verbatimLocality: Ullensaker, Sessvollmoen, Aurtjernet W.; samplingProtocol: Malaise trap; eventDate: 26.VI-25.VIII.2008; individualCount: 22; sex: females; recordedBy: L.O. Hansen; identifiedBy: Andrei E. Humala; institutionCode: ZMUN; occurrenceID: D6A0ECFD-F903-58EE-A720-38A4A09F8EB4
- h. order: Hymenoptera; family: Ichneumonidae; genus: *Cylloceria*; specificEpithet: *caligata*; scientificNameAuthorship: (Gravenhorst, 1829); country: Norway; stateProvince: Akershus; verbatimLocality: Ullensaker, Sessvollmoen, Aurtjernet W.; samplingProtocol: Malaise trap; eventDate: 30.VIII-1.X.2008; individualCount: 3; sex: females; recordedBy: L.O. Hansen; identifiedBy: Andrei E. Humala; institutionCode: ZMUN; occurrenceID: 63827DA6-9C0A-52A8-AC6A-CADC7532E9FE
- i. order: Hymenoptera; family: Ichneumonidae; genus: *Cylloceria*; specificEpithet: *caligata*; scientificNameAuthorship: (Gravenhorst, 1829); country: Norway; stateProvince: Akershus; verbatimLocality: Ullensaker, Sessvollmoen, Aurtjernet W.; samplingProtocol: Malaise trap; eventDate: 30.VIII-1.X.2008; individualCount: 7; sex: males; recordedBy:

L.O. Hansen; identifiedBy: Andrei E. Humala; institutionCode: ZMUN; occurrenceID: 53AAC79F-8B93-57C3-8328-70701EF40FA2

- j. order: Hymenoptera; family: Ichneumonidae; genus: *Cylloceria*; specificEpithet: *caligata*; scientificNameAuthorship: (Gravenhorst, 1829); country: Norway; stateProvince: Buskerud; verbatimLocality: Nedre-Eiker, Mjøndalen, Ryggkollen (W); samplingProtocol: Malaise trap; eventDate: 3.VIII-28.IX.2008; individualCount: 9; sex: males; recordedBy: L.O. Hansen; identifiedBy: Andrei E. Humala; institutionCode: ZMUN; occurrenceID: 4E6FB960-2565-55FA-B474-16C47443D1F2
- k. order: Hymenoptera; family: Ichneumonidae; genus: *Cylloceria*; specificEpithet: *caligata*; scientificNameAuthorship: (Gravenhorst, 1829); country: Norway; stateProvince: Buskerud; verbatimLocality: Nedre-Eiker, Mjøndalen, Ryggkollen (W); samplingProtocol: Malaise trap; eventDate: 3.VIII-28.IX.2008; individualCount: 5; sex: females; recordedBy: L.O. Hansen; identifiedBy: Andrei E. Humala; institutionCode: ZMUN; occurrenceID: E83C13D6-0052-5FB3-852B-D345CB734B47

Distribution: Holarctic; Finland, Sweden, Lithuania and NW Russia (Karelia).

Notes: This species was reported for Norway several times (Ulbricht 1912, Strand 1913, Roman 1942, Riedel and Berg 1997) but it was synonymised under *Cylloceria melancholica* Gravenhorst, 1820 without sufficient reasons (Rossem van 1987). According to Humala (2002) *C. caligata* Gravenhorst is a distinct species, and it should be included again in the list of Norwegian Ichneumonidae.

Subfamily Diplazontinae Viereck, 1918

Diplazon sp.1 Klopstein, 2014 (in press)

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Diplazon*; specificEpithet: sp.1; country: Norway; stateProvince: Nord-Trøndelag; verbatimLocality: Høylandet, Skiftesåa stream; eventDate: 1.VII.1986; individualCount: 1; sex: male; recordedBy: John O. Solem; identifiedBy: Seraina Klopstein; institutionCode: NTNU; occurrenceID: 44BDB2C9-0ED2-534C-AB64-C3F660FF6A97

Distribution: Western Palaearctic; Norway and Sweden.

Notes: The description of this new species will be published soon (Klopstein 2014 in press).

Homotropus melanogaster (Holmgren, 1872)

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Homotropus*; specificEpithet: *melanogaster*; scientificNameAuthorship: (Holmgren, 1872); country: Norway; stateProvince: Nordland; verbatimLocality: Vefsn, Røsvaud; individualCount: 1; sex: female; recordedBy: Strand; identifiedBy: Seraina Klopstein; institutionCode: ZMUN; occurrenceID: F2E8F63A-F566-569E-AAB6-31933DCB6505

Distribution: Holarctic; Sweden.

***Sussaba hinzi* Diller, 1982**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Sussaba*; specificEpithet: *hinzi*; scientificNameAuthorship: Diller, 1982; country: Norway; stateProvince: Oppland; verbatimLocality: Øystre Slidre, Heimdalen; eventDate: 2-3.VIII.1995; individualCount: 1; sex: female; recordedBy: K. Sand; identifiedBy: Seraina Klopstein; institutionCode: ZMUN; occurrenceID: 6A78C716-15F8-57D6-A53C-440089B9EDD6

Distribution: Palaearctic; Sweden, NW Russia (Leningrad region).

***Syrphoctonus idari* Diller, 1985**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Syrphoctonus*; specificEpithet: *idari*; scientificNameAuthorship: Diller, 1985; country: Norway; stateProvince: Nord-Trøndelag; verbatimLocality: Høylandet, Tverråa stream; samplingProtocol: Malaise trap; eventDate: 25.VI.1986; individualCount: 1; sex: female; recordedBy: John O. Solem; identificationID: Seraina Klopstein; institutionCode: NTNU; occurrenceID: 2BD46F9F-5582-5618-9C76-9AC1F3BE536C

Distribution: Western Palaearctic; Sweden.

***Syrphophilus asperatus* Dash, 1964**

Materials

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Syrphophilus*; specificEpithet: *asperatus*; scientificNameAuthorship: Dash, 1964; country: Norway; stateProvince: Akerhus; verbatimLocality: Ullensaker, Sessvollmoen W; verbatimElevation: 204 m; samplingProtocol: Malaise trap; eventDate: 11-26.VI.2007; habitat: sandy pine forest; individualCount: 1; sex: female; recordedBy: L.O. Hansen; identifiedBy: Seraina Klopstein; institutionCode: ZMUN; occurrenceID: 3ED1684B-3396-5B68-B968-3233F1420D4D
- b. order: Hymenoptera; family: Ichneumonidae; genus: *Syrphophilus*; specificEpithet: *asperatus*; scientificNameAuthorship: Dash, 1964; country: Norway; stateProvince: Nordland; verbatimLocality: Saltdal, Junkerdalen; samplingProtocol: Malaise trap; eventDate: 31.V-29.VI.2002; habitat: sandy pine forest; individualCount: 1; sex: female; recordedBy: E. Heibo & O. Lønnve; identifiedBy: Seraina Klopstein; institutionCode: ZMUN; occurrenceID: FD9439AA-1A0C-5858-A600-1065BA3B97B8

Distribution: Holarctic; Sweden.

***Woldstedtius holarcticus* (Diller, 1969)**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Woldstedtius*; specificEpithet: *holarcticus*; scientificNameAuthorship: (Diller, 1969); country: Norway; stateProvince: Hedmark; verbatimLocality: Elverum, Starmoen NR (N); samplingProtocol: Malaise trap; eventDate: 11.VI -29.VII.2004; individualCount: 1; sex: female; recordedBy: L.O. Hansen & E. Rindal; identificationID: Seraina Klopstein; institutionCode: ZMUN; occurrenceID: BBB712A9-C751-5802-A5D2-CD6DCDC9F9B1

Distribution: Holarctic and Oriental; Finland.

Subfamily Ichneumoninae Latreille, 1802

Tribe Ichneumonini Latreille, 1802

***Patrocloides diasemae* (Tischbein, 1877)**

Materials

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Patrocloides*; specificEpithet: *diasemae*; scientificNameAuthorship: (Tischbein, 1877); country: Norway; stateProvince: Sør-Trøndelag; verbatimLocality: Trondheim: Gjeddvatnet; samplingProtocol: Malaise trap 4; eventDate: 6.VI.2010; individualCount: 2; sex: females; recordedBy: Jon Kr. Skei; identifiedBy: Andrei E. Humala; institutionCode: NTNU; occurrenceID: 1159C6F1-59BC-55CF-88ED-4ABFA9497DC1
- b. order: Hymenoptera; family: Ichneumonidae; genus: *Patrocloides*; specificEpithet: *diasemae*; scientificNameAuthorship: (Tischbein, 1877); country: Norway; stateProvince: Sør-Trøndelag; verbatimLocality: Kjerringtjønna; samplingProtocol: Malaise trap 1; eventDate: 6.VI.2010; individualCount: 1; sex: female; recordedBy: Jon Kr. Skei; identifiedBy: Andrei E. Humala; institutionCode: NTNU; occurrenceID: 3E0E7E74-C101-5F2B-8040-FD8FEFE62E5B

Distribution: Palaearctic; Finland, Sweden and NW Russia (Karelia).

Subfamily Metopiinae Förster, 1869

***Exochus ferus* Tolkanitz, 1993**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Exochus*; specificEpithet: *ferus*; scientificNameAuthorship: Tolkanitz, 1993; country: Norway; stateProvince: Sør-Trøndelag; verbatimLocality: Åfjord, Skjerva Nature Reserve; verbatimElevation: 42 m; verbatimLatitude: 63°56'36.6" N; verbatimLongitude: 10°16'21.0" E; samplingProtocol: Malaise trap; eventDate: 9.VII-03.IX.2011; habitat: birch forest; individualCount: 1; sex:

male; recordedBy: Andrei E. Humala & Alexey Reshchikov; identifiedBy: Andrei E. Humala; institutionCode: ZMUN; occurrenceID: 78710664-2B5D-506A-BC81-45F527E892E7

Distribution: Palaearctic.

Notes: New to Scandinavia.

Exochus kuslitzkyi Tolkanitz, 2003

Materials

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Exochus*; specificEpithet: kuslitzkyi; scientificNameAuthorship: Tolkanitz, 2003; country: Norway; stateProvince: Hordaland; verbatimLocality: Stord, Leirvik, Gullberg; verbatimElevation: 82 m; verbatimLatitude: 59°46'22.4" N; verbatimLongitude: 05°30'42.0" E; samplingProtocol: Malaise trap; eventDate: 6.VII-28.VIII.2011; habitat: broad-leaved forest; individualCount: 1; sex: male; recordedBy: Andrei E. Humala & Alexey Reshchikov; associatedSequences: voucher for DNA barcoding AH074; identifiedBy: Andrei E. Humala; institutionCode: ZMUN; occurrenceID: C61574DD-CFBE-5004-8EDF-32D48675318D
- b. order: Hymenoptera; family: Ichneumonidae; genus: *Exochus*; specificEpithet: kuslitzkyi; scientificNameAuthorship: Tolkanitz, 2003; country: Norway; stateProvince: Vest-Agder; verbatimLocality: Farsund, Listeid Nature Reserve; verbatimElevation: 50-100 m; verbatimLatitude: 58°07'55" N; verbatimLongitude: 06°42'57" E; samplingProtocol: netting; eventDate: 1.VII.2011; habitat: oak forest; individualCount: 1; sex: male; recordedBy: Alexey Reshchikov; identifiedBy: Andrei E. Humala; institutionCode: ZMUN; occurrenceID: E1479CFE-9FF2-5741-874E-5723156A8B18
- c. order: Hymenoptera; family: Ichneumonidae; genus: *Exochus*; specificEpithet: kuslitzkyi; scientificNameAuthorship: Tolkanitz, 2003; country: Norway; stateProvince: Rogaland; verbatimLocality: Tysvær, Nedstrand, Leirå, Tunganaset; verbatimLatitude: 59°20'36" N; verbatimLongitude: 05°52'35" E; samplingProtocol: netting; eventDate: 5.VII.2011; habitat: oak forest; individualCount: 1; sex: male; recordedBy: Alexey Reshchikov; identifiedBy: Andrei E. Humala; institutionCode: ZMUN; occurrenceID: CF38B1D9-2D97-5117-B767-489AB7898283

Distribution: Palaearctic.

Notes: New to Scandinavia.

Exochus lictor Haliday, 1839

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Exochus*; specificEpithet: lictor; scientificNameAuthorship: Haliday, 1839; country: Norway; stateProvince: Vest-Agder; verbatimLocality: Farsund, Listeid Nature Reserve; verbatimElevation: 133 m; verbatimLatitude: 58°08'35.2" N; verbatimLongitude: 06°44'11.3" E; samplingProtocol: Malaise trap; eventDate: 1.VII-24.VIII.2011; habitat: oak forest; individualCount: 1; sex: male; recordedBy: Andrei E. Humala & Alexey Reshchikov; identifiedBy: Andrei E.

Humala; institutionCode: ZMUN; occurrenceID: 4DD8CDAC-1EF6-5B39-AE17-0A7BC3BB951C

Distribution: Holarctic; Finland, Latvia, Lithuania and NW Russia (Karelia).

***Exochus lineifrons* Thomson, 1887**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Exochus*; specificEpithet: *lineifrons*; scientificNameAuthorship: Thomson, 1887; country: Norway; stateProvince: Rogaland; verbatimLocality: Tysvær, Silgjerd, Åsen; verbatimElevation: 50 m; verbatimLatitude: 59°20'08.6" N; verbatimLongitude: 05°43'37.6" E; samplingProtocol: Malaise trap; eventDate: 5.VII-27.VIII.2011; habitat: oak forest; individualCount: 2; sex: females; recordedBy: Andrei E. Humala & Alexey Reshchikov; associatedSequences: voucher for DNA barcoding AH016; identifiedBy: Andrei E. Humala; institutionCode: ZMUN; occurrenceID: 7975A5FD-5E20-560A-B8E1-07D62208189E

Distribution: Palaearctic; Finland and Sweden.

***Triclistus globulipes* (Desvignes, 1856)**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Triclistus*; specificEpithet: *globulipes*; scientificNameAuthorship: (Desvignes, 1856); country: Norway; stateProvince: Aust-Agder; verbatimLocality: Lillesand, Vestre Grimevann lake; verbatimLatitude: 58°19'23.1" N; verbatimLongitude: 08°20'09.1" E; samplingProtocol: Malaise trap; eventDate: 29.VI-23.VIII.2011; habitat: oak forest; individualCount: 1; sex: female; recordedBy: Andrei E. Humala & Alexey Reshchikov; identifiedBy: Andrei E. Humala; institutionCode: ZMUN; occurrenceID: 10452855-5FF1-5744-AD1F-F2AA610BF49E

Distribution: Palaearctic and Oriental; Denmark, Finland, Latvia, Lithuania, Sweden and NW Russia (Karelia).

Subfamily Pimplinae Wesmael, 1845

Tribe Delomeristini Hellén, 1915

***Delomerista longicauda* Kasparyan, 1973**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Delomerista*; specificEpithet: *longicauda*; scientificNameAuthorship: Kasparyan, 1973; country: Norway; stateProvince: Nord-Trøndelag; verbatimLocality: Høylandet, Tverråa; verbatimElevation: 340 m; samplingProtocol: Malaise trap; eventDate: 30.VII.1986; individualCount: 1; sex: female; recordedBy: Kaare Aagaard; identifiedBy: Andrei E. Humala; institutionCode: NTNU; occurrenceID: 6E30A03B-E204-5115-9542-A0E834143EB9

Distribution: Palaearctic; Sweden.

Tribe Ephialtini Hellén, 1915

Schizopyga pictifrons (Thomson, 1877)

Materials

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Schizopyga*; specificEpithet: *pictifrons*; scientificNameAuthorship: (Thomson, 1877); country: Norway; stateProvince: Sør-Trøndelag; verbatimLocality: Åfjord, Skjerva Nature Reserve; verbatimElevation: 42 m; verbatimLatitude: 63°56'36.6" N; verbatimLongitude: 10°16'21.0" E; samplingProtocol: Malaise trap; eventDate: 09.VII-03.IX.2011; habitat: birch forest; individualCount: 1; sex: male; recordedBy: Andrei E. Humala & Alexey Reshchikov; identifiedBy: Andrei E. Humala; institutionCode: ZMUN; occurrenceID: EB0C9E07-5FE0-5D5D-A570-0A0403D39F2C
- b. order: Hymenoptera; family: Ichneumonidae; genus: *Schizopyga*; specificEpithet: *pictifrons*; scientificNameAuthorship: (Thomson, 1877); country: Norway; stateProvince: Vest-Agder; verbatimLocality: Farsund, Listeid Nature Reserve; verbatimElevation: 50-150 m; verbatimLatitude: 58°07'55" N; verbatimLongitude: 06°42'57" E; samplingProtocol: netting; eventDate: 01.VII.2011; habitat: oak forest; individualCount: 1; sex: male; recordedBy: Alexey Reshchikov; identifiedBy: Andrei E. Humala; institutionCode: ZMUN; occurrenceID: 72BA2507-11D5-548C-A622-0D527C7129AD

Distribution: Palaearctic; Finland and Sweden.

Tribe Pimplini Wesmael, 1845

Itoplectis insignis Perkins, 1957

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Itoplectis*; specificEpithet: *insignis*; scientificNameAuthorship: Perkins, 1957; country: Norway; stateProvince: Sogn og Fjordane; verbatimLocality: Leikanger, Skopargilet, Bargarden Nature Reserve; verbatimElevation: 114 m; verbatimLatitude: 61°12'18.7" N; verbatimLongitude: 06°40'30.4" E; samplingProtocol: Malaise trap; eventDate: 7.VII-30.VIII.2011; habitat: broad-leaved forest; individualCount: 1; sex: female; recordedBy: A. Humala & A. Reshchikov; identifiedBy: Alexey Reshchikov; institutionCode: ZMUN; occurrenceID: AC161069-9380-5AD7-A4E5-EBF74F072CC7

Distribution: Palaearctic; Finland and Sweden.

Subfamily Poemeniinae Narayanan & Lal, 1953

***Neoxorides montanus* Oehlke, 1966**

Materials

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Neoxorides*; specificEpithet: *montanus*; scientificNameAuthorship: Oehlke, 1966; country: Norway; stateProvince: Nord-Trøndelag; verbatimLocality: Høylandet, Skiftesåa; Bred inn; verbatimElevation: 200 m; samplingProtocol: Malaise trap; eventDate: 25.VI.1986; individualCount: 1; sex: female; recordedBy: Kaare Aagaard; identifiedBy: Andrei E. Humala; institutionCode: NTNU; occurrenceID: BC11A73D-4BD1-5441-A86C-2314354EADEB
- b. order: Hymenoptera; family: Ichneumonidae; genus: *Neoxorides*; specificEpithet: *montanus*; scientificNameAuthorship: Oehlke, 1966; country: Norway; stateProvince: Nord-Trøndelag; verbatimLocality: Høylandet, Skiftesåa; Bred inn; verbatimElevation: 200 m; samplingProtocol: Malaise trap; eventDate: 15.VII.1987; individualCount: 1; sex: female; recordedBy: Kaare Aagaard; identifiedBy: Andrei E. Humala; institutionCode: NTNU; occurrenceID: 7BE50067-125E-53F3-9C45-C84C12F7E724

Distribution: Palaearctic; Finland, NW Russia (Leningrad and Murmansk regions).

***Podoschistus scutellaris* (Desvignes, 1856)**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Podoschistus*; specificEpithet: *scutellaris*; scientificNameAuthorship: (Desvignes, 1856); country: Norway; stateProvince: Aust-Agder; verbatimLocality: Lillesand, Vestre Grimevann; verbatimElevation: 78 m; verbatimLatitude: 58°19'23.1" N; verbatimLongitude: 08°20'9.1" E; samplingProtocol: Malaise trap; eventDate: 29.VI-23.VIII.2011; habitat: oak forest; individualCount: 1; sex: female; recordedBy: A. Humala & A. Reshchikov; associatedSequences: voucher for DNA barcoding AVR064; identifiedBy: Alexey Reshchikov; institutionCode: ZMUN; occurrenceID: D90EA0BF-2EBE-5A6B-8D16-2659C27F6488

Distribution: Palaearctic and Oriental; Sweden and NW Russia.

Subfamily Tersilochinae Schmiedeknecht, 1910

***Diaparsis (Nanodiaparsis) aperta* (Thomson, 1889)**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Diaparsis*; subgenus: *Nanodiaparsis*; specificEpithet: *aperta*; scientificNameAuthorship: (Thomson, 1889); country: Norway; stateProvince: Akerhus; verbatimLocality: Oslo, Bygdøy, Rodeløkken; samplingProtocol: Malaise trap; eventDate: 27.VI-25.VII.2006; individualCount: 2; sex: females; recordedBy: A. Endrestøl and S. Olberg; identifiedBy: Andrey Khalaim; institutionCode: ZMUN; occurrenceID: F40471C4-3B48-5B27-83C7-4D4096297FCC

Distribution: Palaearctic; Sweden and Finland.

***Diaparsis (Diaparsis) carinifer* (Thomson, 1889)**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Diaparsis*; subgenus: *Diaparsis*; specificEpithet: *carinifer*; scientificNameAuthorship: (Thomson, 1889); country: Norway; stateProvince: Akerhus; verbatimLocality: Oslo, Lindøya; samplingProtocol: Malaise trap; eventDate: 19.VI-20.VII.2006; individualCount: 1; sex: female; recordedBy: A. Endrestøl; identifiedBy: Andrey Khalaim; institutionCode: ZMUN; occurrenceID: ED63B1F6-D74D-5A2B-A15B-A80E8364B413

Distribution: Palaearctic; Sweden, Finland and Lithuania.

***Diaparsis (Diaparsis) jucunda* (Holmgren, 1860)**

Materials

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Diaparsis*; subgenus: *Diaparsis*; specificEpithet: *jucunda*; scientificNameAuthorship: (Holmgren, 1860); country: Norway; stateProvince: Sogn og Fjordane; verbatimLocality: Leikanger, Kvinnefossen waterfall; verbatimElevation: 60 m; verbatimLatitude: 61°12'30.2" N; verbatimLongitude: 06°38'52.0" E; samplingProtocol: Malaise trap; eventDate: 6.VII-30.VIII.2011; habitat: spruce forest with juniper; individualCount: 2; sex: females; recordedBy: Andrei E. Humala & Alexey Reshchikov; identifiedBy: Andrey Khalaim; institutionCode: ZMUN; occurrenceID: A6ECAEEF-015D-5A7E-A5DA-5B880000412F
- b. order: Hymenoptera; family: Ichneumonidae; genus: *Diaparsis*; subgenus: *Diaparsis*; specificEpithet: *jucunda*; scientificNameAuthorship: (Holmgren, 1860); country: Norway; stateProvince: Sogn og Fjordane; verbatimLocality: Leikanger, Skopargilet, Bargarden Nature Reserve; verbatimElevation: 114 m; verbatimLatitude: 61°12'18.7" N; verbatimLongitude: 06°40'30.4" E; samplingProtocol: Malaise trap; eventDate: 7.VII-30.VIII.2011; habitat: broad-leaved forest; individualCount: 2; sex: females; recordedBy: Andrei E. Humala & Alexey Reshchikov; associatedSequences: voucher for DNA barcoding AH060; identifiedBy: Andrey Khalaim; institutionCode: ZMUN; occurrenceID: 46F94F4A-55C3-5DD1-90A3-73885503DF56

Distribution: Palaearctic; Denmark, Finland, Sweden, and NW Russia (Karelia, Leningrad region).

***Epistathmus crassicornis* Horstmann, 1971**

Materials

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Epistathmus*; specificEpithet: *crassicornis*; scientificNameAuthorship: Horstmann, 1971; country: Norway; stateProvince: Akerhus; verbatimLocality: Follo, As, Rustadmåsan; verbatimLatitude: 59°39'48.4" N; verbatimLongitude: 10°49'15.9" E; samplingProtocol: Malaise trap; eventDate: 15.VII-16.VIII.2011; individualCount: 3; sex: 2 females, 1 male; recordedBy: S.A. Jensen; identifiedBy: A. Khalaim; institutionCode: ZMUN; occurrenceID: A563A5A4-E725-56A1-BFE0-A9F312B7E1CD

- b. order: Hymenoptera; family: Ichneumonidae; genus: *Epistathmus* ; specificEpithet: *crassicornis* ; scientificNameAuthorship: Horstmann, 1971; country: Norway; stateProvince: Hordaland; verbatimLocality: Os, Lyse kloster ; verbatimLatitude: 60°13'50.8" N; verbatimLongitude: 05°24'6.9" E; samplingProtocol: sweeping net; eventDate: 29.VIII.2011; individualCount: 1; sex: male; recordedBy: Alexey Reshchikov; identifiedBy: A. Khalaim; institutionCode: ZMUN; occurrenceID: 45AD0246-0DBA-57B2-8301-A581DA8ED964
- c. order: Hymenoptera; family: Ichneumonidae; genus: *Epistathmus* ; specificEpithet: *crassicornis* ; scientificNameAuthorship: Horstmann, 1971; country: Norway; stateProvince: Sogn og Fjordane; verbatimLocality: Leikanger, Kvinnefossen waterfall; verbatimElevation: 60 m; verbatimLatitude: 61°12'30.2" N; verbatimLongitude: 6°38'52.0" E; samplingProtocol: Malaise trap; eventDate: 6.VII-30.VIII.2011; habitat: spruce forest with juniper; individualCount: 1; sex: female; recordedBy: A. Humala & A. Reshchikov ; identifiedBy: A.Khalaim; institutionCode: ZMUN; occurrenceID: FCF1D1EF-CA28-50FB-A4E9-E609D25311B5
- d. order: Hymenoptera; family: Ichneumonidae; genus: *Epistathmus* ; specificEpithet: *crassicornis* ; scientificNameAuthorship: Horstmann, 1971; country: Norway; stateProvince: Sogn og Fjordane; verbatimLocality: Leikanger, Skopargilet; verbatimElevation: 114 m; verbatimLatitude: 61°12'18.7" N; verbatimLongitude: 06°40'30.4" E; samplingProtocol: Malaise trap; eventDate: 6.VII-30.VIII.2011; habitat: broad-leaved forest; individualCount: 1; sex: male; recordedBy: A. Humala & A. Reshchikov; identifiedBy: A.Khalaim; institutionCode: ZMUN; occurrenceID: C69F0F1C-FC5C-56A1-91DE-EBA9F6A6D092
- e. order: Hymenoptera; family: Ichneumonidae; genus: *Epistathmus* ; specificEpithet: *crassicornis* ; scientificNameAuthorship: Horstmann, 1971; country: Norway; stateProvince: Vest-Agder; verbatimLocality: Farsund, Listeid Nature Reserve; verbatimElevation: 72 m; verbatimLatitude: 58°08'01.6" N; verbatimLongitude: 06°43'08.2" E; samplingProtocol: Malaise trap; eventDate: 1.VII-24.VIII.2011; habitat: oak forest; individualCount: 3; sex: males; recordedBy: A. Humala & A. Reshchikov ; identifiedBy: A.Khalaim; institutionCode: ZMUN; occurrenceID: 5AC79C3F-0CC2-5191-8A30-F474970BDE94
- f. order: Hymenoptera; family: Ichneumonidae; country: Norway; stateProvince: Vest-Agder; verbatimLocality: Farsund, Listeid Nature Reserve; verbatimElevation: 133 m; verbatimLatitude: 58°08'35.2" N; verbatimLongitude: 06°44'11.3" E; samplingProtocol: Malaise trap; eventDate: 1.VII-24.VIII.2011; habitat: oak forest; individualCount: 2; sex: 1 female, 1 male; recordedBy: A. Humala & A. Reshchikov ; identifiedBy: A.Khalaim; institutionCode: ZMUN; occurrenceID: 240922B9-530D-5BD2-BB0F-D9D389FE7072
- g. order: Hymenoptera; family: Ichneumonidae; country: Norway; stateProvince: Rogaland; verbatimLocality: Tysvær, Silgjerd, Åsen; verbatimElevation: 50 m; verbatimLatitude: 59°20'08.6" N; verbatimLongitude: 05°43'37.6" E; samplingProtocol: Malaise trap; eventDate: 5.VII-27.VIII.2011; habitat: oak forest; individualCount: 4; sex: 2 females, 2 males; recordedBy: A. Humala & A. Reshchikov ; identifiedBy: A.Khalaim; institutionCode: ZMUN; occurrenceID: B9999CA1-ECB8-52D1-BA84-2936CE1109E1
- h. order: Hymenoptera; family: Ichneumonidae; country: Norway; stateProvince: Hordaland; verbatimLocality: Stord, Leirvik, Gullberg; verbatimElevation: 82 m; verbatimLatitude: 59°46'22.4" N; verbatimLongitude: 05°30' 42.0" E; samplingProtocol: Malaise trap; eventDate: 6.VII-28.VIII.2011; habitat: broad-leaved forest; individualCount: 2; sex: 1 female, 1 male; recordedBy: A. Humala & A. Reshchikov ; identifiedBy: A.Khalaim; institutionCode: ZMUN; occurrenceID: 0C2E559F-75E2-5FBA-8497-AD544C74C16C

- i. order: Hymenoptera; family: Ichneumonidae; country: Norway; stateProvince: Aust-Agder; verbatimLocality: Lillesand, Vestre Grimevann lake; verbatimLatitude: 58°19'23.1" N ; verbatimLongitude: 08°20'09.1" E; samplingProtocol: Malaise trap; eventDate: 29.VI-23.VIII.2011; habitat: oak forest; individualCount: 2; sex: 1 female, 1 male; recordedBy: A. Humala & A. Reshchikov ; identifiedBy: A.Khalaim; institutionCode: ZMUN; occurrenceID: 45510F42-70ED-5E9D-8B1E-3A49701ADFA4
- j. order: Hymenoptera; family: Ichneumonidae; country: Norway; stateProvince: Sør-Trøndelag; verbatimLocality: Åfjord, Skjerva Nature Reserve; verbatimElevation: 42 m; verbatimLatitude: 63°56'36.6" N; verbatimLongitude: 10°16'21.0" E; samplingProtocol: Malaise trap; eventDate: 9.VII-3.IX.2011; habitat: birch forest; individualCount: 1; sex: male; recordedBy: A. Humala & A. Reshchikov ; identifiedBy: A.Khalaim; institutionCode: ZMUN; occurrenceID: 7A60B54A-B2ED-5061-BE33-2FAF1D88EF8C

Distribution: Palaearctic; Denmark, Finland and NW Russia (Karelia).

***Gelanes simillimus* Horstmann, 1981**

Materials

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Gelanes*; specificEpithet: *simillimus*; scientificNameAuthorship: Horstmann, 1981; country: Norway; stateProvince: Akerhus; verbatimLocality: Follo, Ås, Åsmåsan; verbatimElevation: 126 m; verbatimLatitude: 59°40'16.7" N; verbatimLongitude: 10°46'53.9" E; samplingProtocol: Malaise trap; eventDate: 16-19.V.2011; individualCount: 2; sex: 1 female, 1 male; recordedBy: S.A. Jensen; identifiedBy: A.Khalaim; institutionCode: ZMUN; occurrenceID: 988F1F04-B56F-52D1-A05C-CA109D866040
- b. order: Hymenoptera; family: Ichneumonidae; genus: *Gelanes* ; specificEpithet: *simillimus* ; scientificNameAuthorship: Horstmann, 1981; country: Norway; stateProvince: Akerhus; verbatimLocality: Follo, Ås, Rustadmåsan; verbatimLatitude: 59°39'48.4" N; verbatimLongitude: 10°49'15.9" E; samplingProtocol: Malaise trap; eventDate: 15.VII-16.VIII.2011; individualCount: 2; sex: 1 female, 1 male; recordedBy: S.A. Jensen; identifiedBy: A.Khalaim; institutionCode: ZMUN; occurrenceID: C61632F2-1FE0-59D1-9793-2FC49717118C

Distribution: Palaearctic; Sweden, Finland, Lithuania and NW Russia.

***Probles (Euporizon) extensor* (Aubert, 1971)**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Probles* ; subgenus: *Euporizon*; specificEpithet: *extensor* ; scientificNameAuthorship: (Aubert, 1971); country: Norway; stateProvince: Oppland; verbatimLocality: Slidre, Heimdalen; samplingProtocol: Malaise trap; eventDate: 2-3.VIII.1995; individualCount: 1; sex: female; recordedBy: K. Sand; identifiedBy: A.Khalaim; institutionCode: ZMUN; occurrenceID: DE469092-0629-54A8-BBBE-DDF5AE0AF862

Distribution: Western Palaearctic.

Notes: New to Scandinavia.

***Tersilochus (Tersilochus) longicornis* (Thomson, 1889)**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Tersilochus*; subgenus: *Tersilochus*; specificEpithet: *longicornis*; scientificNameAuthorship: (Thomson, 1889); country: Norway; stateProvince: Aust-Agder; verbatimLocality: Birkenes, Birkeland; samplingProtocol: Malaise trap; eventDate: V.2006; individualCount: 3; sex: females; recordedBy: Svein Svendsen; identifiedBy: Andrey Khalaim; institutionCode: ZMUN; occurrenceID: 1F5F94DD-66A0-5850-9AE6-5F9652C5E1D0

Distribution: Palaearctic; Sweden, Finland and NW Russia (Leningrad region).

***Tersilochus (Tersilochus) triangularis* Gravenhorst, 1807)**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Tersilochus*; subgenus: *Tersilochus*; specificEpithet: *triangularis*; scientificNameAuthorship: (Gravenhorst, 1807); country: Norway; stateProvince: Akerhus; verbatimLocality: Oslo, Ekebergskr ningen [NW]; samplingProtocol: Malaise trap; eventDate: 24.IV-29.V.2007; individualCount: 1; sex: female; recordedBy: A. Endrest l and L.O. Hansen; identifiedBy: Andrey Khalaim; institutionCode: ZMUN; occurrenceID: 3B922CDA-0FF6-571B-9C2B-706795AC85D1

Distribution: Palaearctic; Sweden, Finland and Lithuania.

Subfamily Tryphoninae Shuckard, 1840

Tribe Exenterini F rster, 1869

***Eridolius clauseni* (Kerrich, 1962)**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Eridolius*; specificEpithet: *clauseni*; scientificNameAuthorship: (Kerrich, 1962); country: Norway; stateProvince: Akerhus; verbatimLocality: Baerum, Oksen ya, Oksen yveinen no.71; samplingProtocol: Malaise trap; eventDate: 1.VII-15.VIII.2003; individualCount: 1; sex: female; recordedBy: L.O. Hansen; identifiedBy: Alexey Reshchikov; institutionCode: ZMUN; occurrenceID: CEE01D47-E3C2-5A97-94BA-1C04E4A0C1F1

Distribution: Palaearctic and Oriental.

Notes: New to Scandinavia. In Western Palaearctic reported from Germany only.

***Eridolius deletus* (Thomson, 1883)**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Eridolius* ; specificEpithet: *deletus* ; scientificNameAuthorship: (Thomson, 1883); country: Norway; stateProvince: Oppland; verbatimLocality: Sør-Aurdal, Kjenstrud; eventDate: VII.1995; individualCount: 1; sex: female; recordedBy: Garli; identifiedBy: Alexey Reshchikov; institutionCode: ZMUN; occurrenceID: F4B05AFD-96CF-594E-BB98-2DE90CC025C5

Distribution: Palaearctic; Sweden, Finland and NW Russia (Karelia).

***Exenterus confusus* Kerrich, 1952**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Exenterus*; specificEpithet: *confusus*; scientificNameAuthorship: Kerrich, 1952; country: Norway; stateProvince: Sør-Trøndelag; verbatimLocality: Åfjord, Skjerva Nature Reserve; verbatimElevation: 42 m; verbatimLatitude: 63°56'36.6" N; verbatimLongitude: 10°16'21.0" E; samplingProtocol: Malaise trap; eventDate: 9.VII-3.IX.2011; habitat: birch forest; individualCount: 1; sex: female; recordedBy: Andrei E. Humala & Alexey Reshchikov; identifiedBy: Andrei E. Humala; institutionCode: ZMUN; occurrenceID: 46874D71-82DA-572F-A224-B7608B91E35D

Distribution: Holarctic; Finland, Sweden and NW Russia (Karelia).

Tribe Tryphonini Shuckard, 1840

***Polyblastus (Polyblastus) cothurnatus* (Gravenhorst, 1829)**

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Polyblastus*; subgenus: *Polyblastus*; specificEpithet: *cothurnatus*; scientificNameAuthorship: (Gravenhorst, 1829); country: Norway; stateProvince: Aust-Agder; verbatimLocality: Lillesand, Vestre Grimevann lake; verbatimLatitude: 58°19'23.1" N; verbatimLongitude: 08°20'09.1" E; samplingProtocol: Malaise trap; eventDate: 29.VI-23.VIII.2011; habitat: oak forest; individualCount: 1; sex: female; recordedBy: Andrei E. Humala & Alexey Reshchikov; identifiedBy: Andrei E. Humala; institutionCode: ZMUN; occurrenceID: F55025D1-BF7F-5186-A9DC-EFAE60E80935

Distribution: Palaearctic; Denmark, Finland, Sweden, Latvia, Lithuania and NW Russia (Karelia).

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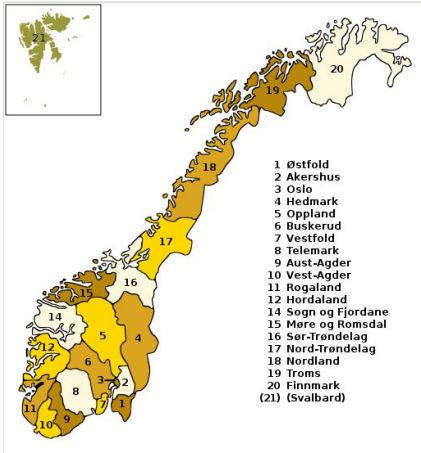


Figure 1.
The division of Norway in administrative regions (counties).