



Ichneumonidae (Hymenoptera) species new to the fauna of Norway

Andrei E. Humala^{†,‡}, Alexey Reshchikov^{§,†}

[†] University of Oslo, Natural History Museum, Department of Research and Collections, Oslo, Norway

[‡] Forest Research Institute KRC RAS, Petrozavodsk, Russia

[§] Swedish Museum of Natural History, Stockholm, Sweden

Corresponding author: Andrei E. Humala (humala@krc.karelia.ru)

Academic editor: Jose Fernandez-Triana

Received: 01 Jan 2014 | Accepted: 18 Feb 2014 | Published: 25 Feb 2014

Citation: Humala A, Reshchikov A (2014) Ichneumonidae (Hymenoptera) species new to the fauna of Norway.

Biodiversity Data Journal 2: e1047. doi: [10.3897/BDJ.2.e1047](https://doi.org/10.3897/BDJ.2.e1047)

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.

Material 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.

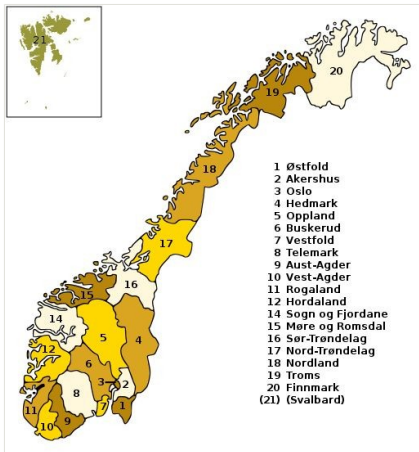


Figure 1.

The division of Norway in administrative regions (counties).

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 *Saotia* 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 Palearctic and Western Palearctic 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

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

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

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

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

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

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
- 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

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

Rhimphoctona (Xylophylax) rufocoxalis (Clément, 1924)

Materials

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Rhimphoctona*; subgenus: *Xylophylax*; specificEpithet: *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
- b. order: Hymenoptera; family: Ichneumonidae; genus: *Rhimphoctona*; subgenus: *Xylophylax*; specificEpithet: *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
- c. order: Hymenoptera; family: Ichneumonidae; genus: *Rhimphoctona*; subgenus: *Xylophylax*; specificEpithet: *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

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

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

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

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

Distribution: Palaeartic; 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

Distribution: Palaeartic; 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

Distribution: Palaeartic; 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

Distribution: Western Palaeartic; 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

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

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

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

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

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

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

Distribution: Western Palaearctic; Sweden.

Tribe Pionini Smith & Shenefelt, 1955

Asthenara socia (Holmgren, 1857)

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Asthenara*; specificEpithet: *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

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, Ekebergsraninger; samplingProtocol: Malaise trap; eventDate: 29.V-27.VI.2007; individualCount: 1; sex: female; recordedBy: L.O. Hansen; identifiedBy: Alexey Reshchikov; institutionCode: ZMUN

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

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

Distribution: Palaeartic; 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

Distribution: Western Palaeartic; 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

Distribution: Western Palaeartic; 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

Distribution: Palaeartic; 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: Oppegård, Svartskog, Rødstein; samplingProtocol: Malaise trap; eventDate: 4.VI-4.VII.2004; individualCount: 1; sex: female; recordedBy: Ole Lønnve; identifiedBy: Alexey Reshchikov; institutionCode: ZMUN

Distribution: Palaeartic; 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

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

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
- b. order: Hymenoptera; family: Ichneumonidae; genus: *Cylloceria*; specificEpithet: *caligata*; scientificNameAuthorship: (Gravenhorst, 1829); country: Norway; stateProvince: Hedmark; verbatimLocality: Folldal, Vollen; samplingProtocol: Malaise trap; eventDate: 23.VIII.1986; individualCount: 2; sex: males; recordedBy: John O. Solem; identifiedBy: Andrei E. Humala; institutionCode: NTNU
- c. order: Hymenoptera; family: Ichneumonidae; genus: *Cylloceria*; specificEpithet: *caligata*; scientificNameAuthorship: (Gravenhorst, 1829); country: Norway; stateProvince: Hedmark; verbatimLocality: Folldal, 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
- 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

- 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
- 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
- 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
- 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
- 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
- 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
- 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

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

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

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

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

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
- 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

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

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
- b. order: Hymenoptera; family: Ichneumonidae; genus: *Patrocloides*; specificEpithet: *diasemae*; scientificNameAuthorship: (Tischbein, 1877); country: Norway; stateProvince: Sør-Trøndelag; verbatimLocality: Kjerringtjønnå; samplingProtocol: Malaise trap 1; eventDate: 6.VI.2010; individualCount: 1; sex: female; recordedBy: Jon Kr. Skei; identifiedBy: Andrei E. Humala; institutionCode: NTNU

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

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
- 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
- c. order: Hymenoptera; family: Ichneumonidae; genus: *Exochus*; specificEpithet: *kuslitzkyi*; scientificNameAuthorship: Tolkanitz, 2003; country: Norway; stateProvince: Rogaland; verbatimLocality: Tysvær, Nedstrand, Leirå, Tunganeset; 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

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

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

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

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

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
- 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

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

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
- 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

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

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

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

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
- 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

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, Ås, 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. Jenseg; identifiedBy: A. Khalaim; institutionCode: ZMUN

- 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
- 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
- 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
- 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
- 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
- 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
- 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
- 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

- 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

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. Jenseg; identifiedBy: A.Khalaim; institutionCode: ZMUN
- 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. Jenseg; identifiedBy: A.Khalaim; institutionCode: ZMUN

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

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

Distribution: Palaeartic; 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, Ekebergskrånningen [NW]; samplingProtocol: Malaise trap; eventDate: 24.IV-29.V.2007; individualCount: 1; sex: female; recordedBy: A. Endrestøl and L.O. Hansen; identifiedBy: Andrey Khalaim; institutionCode: ZMUN

Distribution: Palaeartic; Sweden, Finland and Lithuania.

Subfamily Tryphoninae Shuckard, 1840

Tribe Exenterini Förster, 1869

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

Material

- a. order: Hymenoptera; family: Ichneumonidae; genus: *Eridolius*; specificEpithet: *clauseni*; scientificNameAuthorship: (Kerrich, 1962); country: Norway; stateProvince: Akerhus; verbatimLocality: Baerum, Oksenøya, Oksenøyveinen no.71; samplingProtocol: Malaise trap; eventDate: 1.VII-15.VIII.2003; individualCount: 1; sex: female; recordedBy: L.O. Hansen; identifiedBy: Alexey Reshchikov; institutionCode: ZMUN

Distribution: Palaeartic and Oriental.

Notes: New to Scandinavia. In Western Palaeartic 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

Distribution: Palaeartic; 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: Afjord, 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

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

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

Acknowledgements

The present study was funded by Artsdatabanken (Artsprosjektet) grant to Dr. Vladimir Gusarov (project No 70184219 "Filling the blanks: a quest for overlooked Norwegian species in poorly known insect taxa: Hymenoptera: Ichneumonidae"). For the loan of Ichneumonidae material, we would like to thank all the curators and other colleagues who generously made the specimens under their care available for this study: Dr. Torbjørn Ekrem (NTNU), Mr. Lars Ove Hansen (ZMUN), Dr. Steffen Roth and Mr. Per Djursvoll (University Museum of Bergen), Ms Sanna Leppänen (UEF), curators of Swedish museums for making possible to examine the type specimens deposited in their collections: Dr. Hege Vårdal (The Swedish Museum of Natural History, Stockholm), Dr. Hans Mejlou (Zoological Institute of Uppsala University), Dr. Roy Danielsson (Zoological Institute, Lund). We are grateful to Dr. Andrey Khalaim (Zoological Institute, Russian Academy of Sciences) for his help in identification of the Tersilochinae specimens, and Dr. Seraina Klopstein (The University of Adelaide) for her help in identifications of the Diplazontinae specimens. We also are very grateful to Mr. Finn Audun Grøndahl (Lands

Museum, Dokka) who kindly helped us during the field work in Oppland. We are indebted to Dr. Vladimir Gusarov (ZMUN) for critically reading this manuscript and for useful comments on the text, Dr. Andrey Khalaim and Dr. Dmitri Kasparyan for reviews of manuscript (Zoological Institute, Russian Academy of Sciences). Ms. Synne Arnesen Jenseg (Norwegian University of Life Sciences, Ås), Ms. Dolores Lucía Guzman Herrador (University of Granada, Spain) and Mrs. Lydia Kopilyas (Russia) are thanked for their assistance in field work and material sorting.

References

- Achterberg van C, Zwakhals K (2004) Fauna Europaea: Ichneumonoidea. 2.4. URL: <http://www.faunaeur.org/>
- Broad G (2011) Checklist of British and Irish Ichneumonidae (Hymenoptera). Release date: 2011 8 05. URL: <http://www.nhm.ac.uk/resources-rx/files/ichneumonidae-checklist-for-web-27752.pdf>
- Hansen LO, Humala A, Reschikov AV (2010) Ichneumonidae (Hymenoptera) new for the fauna of Norway, Part 4. Norwegian Journal of Entomology 57: 177-186. [In English].
- Horstmann K (2004) Bemerkungen zur Systematik einiger Gattungen der Campopleginae IV (Hymenoptera, Ichneumonidae). Zeitschrift der Arbeitsgemeinschaft Österreichischer Entomologen 56: 13-35. [In German].
- Humala AE (2002) A review of the Parasitic Wasps of the Genera *Cylloceria* Schiødte, 1838 and *Allomacrus* Förster, 1868 (Hymenoptera, Ichneumonidae) of the Fauna of Russia. Entomologicheskoe Obozrenie 82 (3): 301-313. [In English].
- Humala AE, Reshchikov AV (2012) Ichneumonidae (Hymenoptera) new to the Norwegian fauna. Norwegian Journal of Entomology 59: 67-71. [In English].
- Kasparyan DR, Khalaim AI (2007) Ctenopelmatinae. In: Lelej AS (Ed.) Key to the insects of Russia Far East. Volume IV. Neuropteroidea, Mecoptera, Hymenoptera. 4. Dal'nauka, Vladivostok, 474-559 pp. [In Russian].
- Kasparyan DR, Kopelke JP (2009) Taxonomic review and key to European ichneumon-flies (Hymenoptera, Ichneumonidae), parasitoids of gall-forming sawflies of the genera *Pontania* Costa, *Phyllocolpa* Benson, and *Euura* Newman (Hymenoptera, Tenthredinidae) on willows: Part I. Entomological Review 89 (8): 933-957. [In English]. DOI: [10.1134/S0013873809080089](https://doi.org/10.1134/S0013873809080089)
- Kasparyan DR, Kopelke JP (2010) A taxonomic review of ichneumon-flies (Hymenoptera, Ichneumonidae), parasitoids of gall-forming sawflies (Hymenoptera, Tenthredinidae) on *Salix*. Part II. Review of the Palaearctic species of the genus *Saotís* Förster with description of four new species. Entomological Review 90 (1): 71-98. [In English]. DOI: [10.1134/S0013873810010069](https://doi.org/10.1134/S0013873810010069)
- Klopstein S (2014) Revision of the Western Palaearctic Diplazontinae (Hymenoptera, Ichneumonidae). European Journal of Taxonomy 0: 0-0. [In English].

- Kopelke JP (1994) Der Schmarotzerkomplex (Brutparasiten und Parasitoide) der gallenbildenden *Pontania*-Arten (Insecta: Hymenoptera: Tenthredinidae). *Senckenbergiana Biologica* 73: 83-133. [In German].
- Koponen M, Jussila R, Vikberg V (1995) A check list of Finnish Hymenoptera, Parasitica, part 1. family Ichneumonidae, subfamilies Pimplinae, Poemeninae, Rhysinae and Diacritinae. *Sahlbergia* 2: 87-98. [In Finnish].
- Reshchikov A (2013) Two new species of *Lathrolestes* (Hymenoptera, Ichneumonidae) from Norway, northern Russia and Finland with a key to western Palaearctic species. *Zootaxa* 3681 (1): 59. [In English]. DOI: [10.11646/zootaxa.3681.1.3](https://doi.org/10.11646/zootaxa.3681.1.3)
- Riedel M, Berg Ø (1997) Faunistic Distribution on Norwegian Ichneumonidae (Hymenoptera). *Fauna norvegica B* 44: 39-53. [In English].
- Riedel M, Hansen LO (2007) Ichneumonidae (Hymenoptera) new for the fauna of Norway. Part 3. *Norwegian Journal of Entomology* 54: 59-64. [In English].
- Riedel M, Hansen LO (2012) Ichneumonidae (Hymenoptera) new for the fauna of Norway. Part 5. *Norwegian Journal of Entomology* 59: 219-228. [In English].
- Riedel M, Hansen LO (2013) Ichneumonidae (Hymenoptera) new for the fauna of Norway. Part 6. *Norwegian Journal of Entomology* 60: 190-195. [In English].
- Riedel M, Hansen LO, Berg Ø (2000) Ichneumonidae (Hymenoptera) new for the fauna of Norway. *Norwegian Journal of Entomology* 47: 163-176. [In English].
- Riedel M, Hansen LO, Berg Ø (2005) Ichneumonidae (Hymenoptera) new for the fauna of Norway. Part 2. *Norwegian Journal of Entomology* 52: 151-162. [In English].
- Roman A (1942) List of new finds of Ichneumonidae in Norway. *Tromsø Mus. Årsheft. Nat. Avd.* 23 (60): 1-20. [In English].
- Rossem van G (1987) A Revision of Western Palaearctic Oxytorine Genera. Part VI. *Tijdschrift voor Entomologie* 130: 49-108. [In English].
- Strand E (1913) Hymenoptera Parasitica. Neue Beiträge zur Arthropoden-Fauna Norwegens nebst gelegentlichen Bemerkungen über die deutschen Arten. *Nyt Mag. Naturvidensk.* 51: 337-361. [In German].
- Ulbricht A (1912) Pimplinae. In Strand, E., Hymenoptera Parasitica. Neue Beiträge zur Arthropoden-Fauna Norwegens nebst gelegentlichen Bemerkungen über die deutschen Arten. VIII. *Nyt Mag. Naturvidensk* 50: 23-28. [In German].
- Yu DS, van Achterberg K, Horstmann K (2012) *Taxapad 2012, Ichneumonoidea 2011*. Database on flash-drive. Ottawa, Ontario, Canada. URL: www.taxapad.com