

THE ICHNEUMONIDAE (HYMENOPTERA) DESCRIBED BY J.F. RUTHE

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Abstract

The twenty-seven species of Ichneumonidae described by J.F. RUTHE are catalogued and an assessment is made of the extant type-material. Ten lectotypes are designated. Types of eleven species are presumed lost. The generic placements of the species are considered after study of the types and five new combinations are established.

Introduction

J.F. RUTHE described twenty-seven species of Ichneumonidae (including one name published in synonymy) in 1855 and 1859 (RUTHE, 1855; 1859a; 1859b). Seventeen of these species were described from material collected in Iceland in 1856 by O. Staudinger. RUTHE died in 1859 (KRAATZ, 1860) and part of his collection, including the Ichneumonidae, came to the British Museum in October of that year. The relevant entry in the museum's Register of Accessions reads '1859-101. 6983 Ichneumonidae, Germany, 1700 Tenthredinidae, Germany. Purchased of M. Ruthe, Berlin. These species formed the private collection of the late M. Ruthe.'

It is clear that when it came to the British Museum RUTHE's collection did not contain all the type-material of the species described by him. Part of the Staudinger Iceland collection is in the Naturhistorisches Museum in Vienna (PETERSEN, 1956), although RUTHE apparently kept many of the specimens and these are now in the British Museum (Natural History) together with most of the rest of his collection. The British Museum had purchased two lots of material including Hymenoptera from Ruthe in 1858 – the relevant entries in the Register of Accessions read '1858-29. 400 Diptera (species) 743 (specimens) Europe, 152 Hymenoptera (species) 224 (specimens) Europe. Purchased of Mr J.F. Ruthe, Lindenstrasse No. 100, Berlin. Named by Mr Ruthe.' and '1858-80. 402 Hymenoptera, Germany. Purchased of J.F. Ruthe, Berlin. Named by J.F. Ruthe.'. A few of RUTHE's Ichneumonidae came to the British Museum as part of the Vigors collection in July 1859. There are also a few specimens in Stockholm (PETERSEN, 1956: 8).

The aims of the present work have been to assess the status, as types of RUTHE's species, of all relevant specimens in Vienna and London and to make any necessary type restrictions. This has been thought desirable because of the lack of attention paid to material in one or other of the depositories by previous workers. I have not been able to visit Vienna to try to locate types but two independent searches for the specimens have been made by Dr. M. Beier [in connection with PETERSEN's 1956 paper (PETERSEN, personal communication)] and by Dr. M. Fischer (in 1976, on my behalf). It is possible that further types remain undiscovered in the collections in Vienna and London.

The generic placements of the species have been established after study of the types. I would like to thank Dr. M. Fischer for searching for and sending on loan material from Vienna.

Ichneumonidae described by RUTHE

The following list includes all of the species described by RUTHE and is in alphabetical order of original combinations. Each entry is arranged in the following sequence:

Name as published; author; date and page reference of original publication; status and sex of primary type(s); type-locality; type depository; lectotype designation or reference to previous valid type restriction (when necessary).

Notes on the type-material.

A statement, prefixed 'Identity', on the generic placement and synonymy of the species.

British Museum (Natural History) and Naturhistorisches Museum, Vienna are abbreviated to BMNH and NM, Vienna respectively.

Aptesis? concolor RUTHE, 1859b: 368. Holotype ♀, Iceland (lost).

Identity. *Aptesis concolor* RUTHE (PETERSEN, 1956: 59).

Atractodes ambiguus RUTHE, 1859b: 377. Holotype ♀, Iceland (NM, Vienna) [examined].

Identity. *Atractodes ambiguus* RUTHE (PETERSEN, 1956: 70).

Banchus palpalis RUTHE, 1859b: 377. Syntypes 2 ♂, Iceland (lost).

As noted by ROMAN (1930: 285) MORLEY (1915: 137) incorrectly assumed the two specimens standing under this name in the BMNH to be the types. These specimens have no type status.

Identity. Junior synonym of *Banchus monileatus* GRAVENHORST (ROMAN, 1928: 24).

Bassus aciculatus RUTHE, 1859b: 373. Holotype ♀, Iceland (NM, Vienna) [not examined].

Identity. Junior synonym of *Sussaba pulchella* (HOLMGREN) (PETERSEN, 1956: 84).

Bassus carinulatus RUTHE, 1859b: 373. Lectotype ♀, Iceland (NM, Vienna), here designated [examined].

Paralectotype ♂, same locality as lectotype (NM, Vienna). The paralectotype was not seen by me but was examined by PETERSEN (1956: 82).

Identity. Junior synonym of *Enizemum ornatum* (GRAVENHORST) (PETERSEN, 1956: 82).

Chalinocerus ater RUTHE, 1855: 80. Unavailable name, published in the synonymy of '*Chalinocerus defectivus*'.

In the BMNH collection there are 2 ♀ and 7 ♂ which stood in Ruthe's collection under the label '*Ch. defectivus* (Gr.) Rth. E. Z. XVI. 80.' [in RUTHE's handwriting].

Identity. The specimens in the BMNH collection are *Cylloceria melancholica* (GRAVENHORST).

Chalinocerus mancus RUTHE, 1855: 82. Lectotype ♀, Germany: Spandau (BMNH), here designated [examined].

Paralectotypes 5 ♀ 8 ♂, same locality as lectotype (BMNH).

One of the female paralectotypes, to which is attached RUTHE's cabinet label '*Ch. mancus* Rth. E. Z. XVI. p. 82.' was labelled 'type' by Claude MORLEY. This specimen is not considered suitable for designation as lectotype because it lacks the gaster.

Identity. *Cylloceria mancus* (RUTHE) comb. n. This species is probably a synonym of *C. caligata* (GRAVENHORST).

Cryptus picticornis RUTHE, 1859b:365. Lectotype ♂, Iceland (BMNH), here designated (labelled as 'type' by C. MORLEY) [examined].

Paralectotypes 2 ♂, same locality as lectotype (NM, Vienna).

Identity. *Polytribax picticornis* (RUTHE) comb.n.

Grypocentrus albipes RUTHE, 1855:56. Lectotype ♀, Germany: Berlin, Hasenheide (BMNH), here designated (labelled as 'type' by C. MORLEY) [examined].

Paralectotypes 4 ♀ 1 ♂, same locality as lectotype (BMNH).

The lectotype was collected on '18/6.53' and bears RUTHE's cabinet label. Three of the female paralectotypes are labelled 'var.a.', 'var.b.' and 'var.c.' respectively. The two remaining syntypes have not been located.

Identity. *Grypocentrus albipes* RUTHE.

Grypocentrus basalis RUTHE, 1855:57. Lectotype ♀, Germany: Berlin, Hasenheide (BMNH), here designated [examined].

Paralectotypes 3 ♂, same locality as lectotype (BMNH).

The specimen which MORLEY labelled as 'type' was collected on 7.v.1856 and cannot, therefore, be one of the syntypes. The fourth male syntype has not been located.

Identity. *Grypocentrus basalis* RUTHE.

Grypocentrus cinctellus RUTHE, 1855:54. Syntypes 2 ♀, Germany: Berlin, Hasenheide (lost).

The specimen labelled by MORLEY as 'type' is a male and therefore cannot be one of the syntypes. There are two female specimens in the BMNH from RUTHE's collection; one was collected after publication of the description and the other is dated 22.viii.1854 [as '22/8.54']. Since RUTHE states (1855:54) that his eighteen original specimens of *Grypocentrus* were collected 'von der Mitte Juni bis Anfangs Juli' this latter female is unlikely to be one of the syntypes of *G. cinctellus*.

Identity. *Grypocentrus cinctellus* RUTHE.

Grypocentrus incisulus RUTHE, 1855:55. Lectotype ♂, Germany: Berlin, Hasenheide (BMNH), by designation of TOWNES, MOMOI & TOWNES (1965:100) [examined]. The head is missing from the lectotype.

Paralectotype ♀, same locality as lectotype (BMNH).

Identity. *Grypocentrus incisulus* RUTHE.

Ichneumon thulensis RUTHE, 1859b:363. Lectotype ♀, Iceland (BMNH), here designated (labelled as 'type' by C. MORLEY) [examined].

Paralectotypes 6 ♂ 3 ♀ (BMNH), 2 ♂ 1 ♀ (NM, Vienna). All same locality as lectotype.

Identity. Junior synonym of *Ichneumon ligatorius* THUNBERG (PETERSEN, 1956:51).

Ophion nigricans RUTHE, 1859b:378. Lectotype ♀, Iceland (NM, Vienna), here designated [examined].

Paralectotype ♀, same locality as lectotype (NM, Vienna). The paralectotype was not seen by me but was examined by PETERSEN (1956:85).

Identity. *Ophion nigricans* RUTHE [placed by PETERSEN (1956:84) as a synonym of *O. luteus* (LINNAEUS)].

- Pezomachus albicinctus* RUTHE, 1859a:125. Lectotype ♀, [? Germany] (BMNH), here designated (labelled as 'type' by C. MORLEY) [examined].
 Paralectotypes 6 ♀ 3 ♂, same locality as lectotype (BMNH).
 The only information on the type-locality given by RUTHE is 'auf hohem begrasten Boden'.
 Identity. *Gelis albicinctus* (RUTHE) comb.n.
- Phygadeuon cylindraceus* RUTHE, 1859b:367. Holotype ♀, Iceland (lost).
 Identity. *Phygadeuon cylindraceus* RUTHE (PETERSEN, 1956:64).
- Phygadeuon dubius* RUTHE, 1859b:368. Syntypes 2 ♀ 3 ♂, Iceland (lost).
 Identity. ? *Phygadeuon dubius* RUTHE. PETERSEN (1956:64) discusses the possible identity of this species.
- Phygadeuon infernalis* RUTHE, 1859b:366. Holotype ♀, Iceland (lost).
 Identity. *Ethelurgus infernalis* (RUTHE) comb.n. This generic placement is based on specimens in the BMNH collection identified as *infernalis* by A. ROMAN.
- Phytodiaetus elegans* RUTHE, 1855:83. Lectotype ♀, Germany: near Berlin (BMNH), by designation of TOWNES, MOMOI & TOWNES (1965:99) [examined].
 Paralectotypes 3 ♀, same locality data as lectotype (BMNH).
 The syntypes were collected in three localities near Berlin: Lichtenberg Kiez, Schönhausen und Hasenheide.
 Identity. *Neliopisthus elegans* (RUTHE).
- Pimpla coxator* RUTHE, 1859b:371. Lectotype ♀, Iceland (BMNH), here designated (labelled as 'type' by C. MORLEY) [examined].
 Paralectotypes 2 ♀, same locality as lectotype (NM, Vienna).
 PETERSEN (1956:72) mentions three female specimens of this species in Vienna. The three specimens from the collection in Vienna examined by me were two females (paralectotypes) and one male (with no type status). I see no reason to doubt that the specimen in the BMNH is one of the three syntypes and since it is the best preserved specimen I here designate it as lectotype.
 Identity. Junior synonym of *Pimpla arctica* ZETTERSTEDT (PETERSEN, 1956:71).
- Pimpla sodalis* RUTHE, 1859b:371. Lectotype ♀, Iceland (BMNH), by designation of TOWNES & TOWNES (1960:328) [examined].
 Paralectotypes 1 ♂ (BMNH), 1 ♂ (NM, Vienna). Both same locality as lectotype. Further paralectotypes [including the second specimen in Vienna examined by PETERSEN (1956:74)] have not been located.
 Identity. *Pimpla sodalis* RUTHE.
- Plectiscus peregrinus* RUTHE, 1859b:370. Holotype ♀♀, Iceland (lost).
 Identity. *Plectiscidea peregrinus* (RUTHE) (PETERSEN, 1956:91).
- Trachyderma breve* RUTHE, 1855:87. Holotype ♀, Germany: near Freienwalde (lost).
 Identity. Unknown, the name remains a nomen dubium. It does not apply to a metopiine.
- Tryphon aberrans* RUTHE, 1855:85. Lectotype ♀, Germany: near Freienwalde (BMNH), here designated (labelled as 'type' by C. MORLEY) [examined].

Paralectotype ♀, same locality as lectotype (BMNH).

Identity. *Ctenochira aberrans* (RUTHE) comb.n.

Tryphon aemulus RUTHE, 1859b:374. Syntypes 2 ♂, Iceland (lost).

Identity. Junior synonym of *Mesoleius nivalis* HOLMGREN (PETERSEN, 1956:78).

Tryphon haematopus RUTHE, 1859b:374. Holotype ♀, Iceland (lost).

Identity. Unknown, the name remains a nomen dubium. This species has not yet been satisfactorily identified (PETERSEN, 1956:77).

Tryphon instabilis RUTHE, 1859b:375. Syntypes 2 ♀, Iceland (lost).

Identity. Junior synonym of *Hypamblys albopictus* (GRAVENHORST) (PETERSEN, 1956:77).

Nomenclatural summary

The valid names of the species to which the names proposed by RUTHE apply are listed below in alphabetical order.

<i>Aptesis concolor</i> RUTHE	<i>Ichneumon ligatorius</i> THUNBERG
<i>Atractodes ambiguus</i> RUTHE	<i>Mesoleius nivalis</i> HOLMGREN
<i>Banchus monileatus</i> GRAVENHORST	<i>Neliopisthus elegans</i> (RUTHE)
<i>Ctenochira aberrans</i> (RUTHE) comb.n.	<i>Ophion nigricans</i> RUTHE
<i>Cylloceria mancus</i> (RUTHE) comb.n.	<i>Phygadeuon cylindraceus</i> RUTHE
<i>C. melancholica</i> (GRAVENHORST)	? <i>Phygadeuon dubius</i> RUTHE
<i>Enizemum ornatum</i> (GRAVENHORST)	<i>Pimpla arctica</i> ZETTERSTEDT
<i>Ethelurgus infernalis</i> (RUTHE) comb.n.	<i>P. sodalis</i> RUTHE
<i>Gelis albicinctus</i> (RUTHE) comb.n.	<i>Plectiscidea peregrinus</i> (RUTHE)
<i>Grypocentrus albipes</i> RUTHE	<i>Polytribax picticornis</i> (RUTHE) comb.n.
<i>G. basalis</i> RUTHE	<i>Sussaba pulchella</i> (HOLMGREN)
<i>G. cinctellus</i> RUTHE	<i>Trachyderma breve</i> RUTHE nomen dubium
<i>G. incisulus</i> RUTHE	<i>Tryphon haematopus</i> RUTHE nomen dubium
<i>Hypamblys albopictus</i> (GRAVENHORST)	

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