



Title	日本産Myrmosa屬一新種の記載
Author(s)	安松, 京三
Citation	札幌博物学会会報, 11(4), 221-226
Issue Date	1931-04-25
Doc URL	https://hdl.handle.net/2115/63878
Type	journal article
File Information	Vol.11No.4_005.pdf



DESCRIPTION OF A NEW SPECIES OF
MYRMOSA FROM JAPAN (HYM. *MYRMOSIDAE*)

BY

KEIZÔ YASUMATSU

(With 1 Plate)

日本産 *Myrmosa* 屬一新種の記載

安 松 京 三

Myrmosa nigrofasciata n. sp.

♂. Black and shining, antennae excepting scape brownish black; wings hyaline, violaceous in certain aspect, apical half of fore wings fuscous or smoky, stigma black and nervures brownish black; tibial spurs yellowish brown; densely covered with yellowish white hairs, hairs on the head somewhat blackish brown, those on the tibiae and tarsi yellowish brown and very dense; hairs on vertex, frons, genae, scapes, coxae, trochanters, femora, mesonotum, scutellum, sides of thorax, and abdomen erect or nearly erect; coxae, trochanters, femora, tibiae as well as the flagellum of antennae shining.

Punctuation on head (except clypeus and mandibles), pronotum, mesonotum, mesopleura, apical part of propodeum, each abdominal tergite excepting the apical part, and on apical segment of abdomen large, dense and conspicuous; those on mandibles not so dense as the last; those on clypeus very sparse and small; scutellum, postscutellum, medio-basal part of propodeum densely and minutely punctured; coxae with some punctures; posterior part of each abdominal tergite without punctures and shining (except the last abdominal segment).

Head large, rounded in frontal view, much wider than the length, vertex very broad; antennae thirteen-jointed, inserted at the apical part of the face, insertions of antennae depressed, making the anterior margin of frons in the

form of a visor; eyes ovate, inner margins divergent upward, ocelli distinct, put in an acute-angled triangle; basal half of clypeus with a longitudinal carina; mandibles with a very large and two comparatively small teeth; maxillary palpi long and six-jointed, labial palpi four-jointed.

Thorax: pronotum wide, arcuately emarginate posteriorly, mesonotum with four longitudinal impressed lines (inner two deeper and outer two shallower) which are not reaching the anterior margin of mesonotum, inner two somewhat convergent posteriorly; sides of mesonotum rather conspicuously convergent posteriorly; scutellum with a very shallow, longitudinal median line, which is invisible in some aspect; propodeum with a median, longitudinal, and shining impression, medio-basal part of propodeum with but few hairs; mesopleura swollen conspicuously; coxae contingent, hind coxae with a prominent process above; claws unidentate.

Abdomen with the 1st dorsal segment depressed at the base; posterior margin of the first and second tergites longitudinally striated, especially pronounced in the former, the same portion of other tergites closely punctured; dorso-apical valve or the epipygium slightly bifid, with a shallow impression near the apex; first and second sternites each with a basal, tooth-like process.

The genitalia are figured in the Plate 3; claspers long and stout, arms projecting inward, haired, and somewhat hook-like.

Measurements 1.

	head : pronotum : mesonotum : metanotum : 1st ab. seg. : 2nd ab. seg.										
Relative width	107	:	97	:	—	:	78	:	65	:	95
	pronotum : mesonotum : scutellum : postscutellum : propodeum										
Relative width	20	:	60	:	35	:	9	:	58		
	body : fore wing : hind wing										
Length	12 mm.	:	9,5 mm.	:	6,5 mm.						

Segments of antenna	I : II : III : IV : V : VI : VII : VIII : IX : X : XI : XII : XIII
Relative length	30 : 10 : 20 : 20 : 20 : 20 : 19 : 18 : 18 : 19 : 19 : 18 : 25
Relative width	14 : 10 : 15 : 15 : 15 : 15 : 15 : 15 : 14 : 13 : 12 : 6 : 7

Seg. of max. palp.	I : II : III : IV : V : VI
Relative length	7 : 14 : 21 : 27 : 30 : 24

Seg. of lab. palp.	I : II : III : IV
Relative length	10 : 5 : 12 : 24

Seg. of legs.	coxa : trochanter : femur : tibia : tibial spur	tarsus I : II : III : IV : V
Relative length in fore leg	20 : 10 : 35 : 34 : 10	22 : 5 : 4 : 2.5 : 7.5
" " " mid-leg	24 : 10 : 45 : 38 : { 17 13	30 : 13 : 9 : 6 : 9
" " " hind leg	30 : 10 : 55 : 55 : { 20 15	43 : 19 : 14 : 9 : 9

Closely allied to *Myrmosa melanocephala* FABRICIUS, but differs from it as follows:—

Mesonotum with four longitudinal impressions, apical dorsal valve without a deep longitudinal impression near the apex, pronotum not so long as in *Myrmosa melanocephala*, and the shape and position of the prominent process of hind coxae are different.

Holotype—1 ♂ (Hikosan, Buzen, Kyushu, 2. viii. 1930. Collected by Mr. KÔYÔ OKABE). In the Entomological Laboratory of the Kyushu Imperial University.

Paratypes—1 ♂ (Hikosan, Buzen, Kyushu, 2. vii. 1930. Collected by the author), 1 ♂ (Beppu, Bungo, Kyushu, vii. 1930. Collected by Mr. TSUNEO TORIKATA), 1 ♂ (Kobaru, near Sobosan, Bungo, Kyushu, 25. viii. 1930. Collected by Mr. CHOKU TAKEYA), 1 ♂ (Ambo-Kosugidani, Yakushima, Kyushu, 29. vii. 1929. Collected by Mr. HIROSHI HORI). All kept in the Entomological Laboratory of the Kyushu Imperial University.

Measurements 2.

Specimens	length of body	length of fore wing	length of hind wing	collectors
Holotype	12,0 mm.	9,3 mm.	6,5 mm.	K. OKABE
Paratype 1	9,0 mm.	6,8 mm.	5,0 mm.	C. TAKEYA
Paratype 2	13,0 mm.	10,5 mm.	7,8 mm.	H. HORI
Paratype 3	11,5 mm.	9,0 mm.	7,5 mm.	T. TORIKATA

♀. Apterous, mutilliform, ferruginous; head, some six basal antennal segments, a broad fascia on mesothorax, most part of the first abdominal tergite and the following tergite, and apical half of the second abdominal sternite black; antennae, prothorax, metathorax, legs, basal part of the first abdominal tergite, first sternite, basal half of the second sternite and the basilateral parts of the second sternite ferruginous; closely haired or pubescence dense; rather shining; pubescence on antennae, tibiae, tarsi and on abdomen brownish or golden, especially conspicuously golden on the posterior margin of each abdominal segment; the same on abdomen comparatively long. Punctuation on head and abdomen dense, on thorax very strong.

Head large, much thicker than that in male; eyes nearly ovate, ocelli distinct but very small; vertex and frons broad, mandibles and clypeus with long, but sparse hairs, insertions of antennae contiguous.

Thorax: pronotum broad and long, broader than the length, separated from the mesonotum by a nearly straight suture; neck striated slightly and transversely; hind coxae with a long sharp process above.

Abdomen: the second tergite the broadest, basal part of the first tergite depressed, with two tooth-like processes on each side of the anterior margin; the first sternite with a rather long basal process.

Measurements 3.

	head : pronotum : mesonotum : metanotum : 1st ab. seg. : 2nd ab. seg.						
Relative length	38	:	49	:	41	:	45 : 65 : 70

	pronotum : meso.+metanotum	
Relative length	30	: 35

Length of body—6,5 mm.

Segments of antenna	I : II : III : IV : V : VI : VII : VIII : IX : X : XI : XII
Relative length	20 : 6 : 9 : 10 : 10 : 10 : 9 : 9 : 9,5 : 10 : 9,5 : 16

Seg. of legs	coxa : trochanter : femur : tibia :	tarsus				
		I : II : III : IV : V				
Relative length in fore leg	25 : — : 40 : 32 :	11 : 5 : 4 : 4 : 5				
" " " mid-leg	15 : 7,5 : 40 : 35 :	20 : 10 : 8 : 7 : 8				
" " " hind leg	25 : 6 : 50 : 50 :	30 : 14 : 9 : 7 : 10				

Allotype—1 ♀ (Hikosan, Buzen, Kyushu, 2. viii. 1930. Collected by Mr. K. OKABE).

Paratype—1 ♀ (Hikosan, Buzen, Kyushu, 2. viii. 1930. Collected by the author).

Both are deposited in the Entomological Laboratory of the Kyushu Imperial University.

Measurements 4.

	length of body	collectors
Allotype	6,5 mm.	K. OKABE
Paratype	4,0 mm.	K. YASUMATSU

Habitat—Japan (Honshu, Kyushu including Yakushima).

This species is comparatively rare in Japan.

The author wishes to acknowledge the indebtedness to Prof. TEISO ESAKI and Messrs. HIROSHI HORI, CHOKU TAKEYA, KÔYÔ OKABE and TSUNEO TORIKATA for their kindness rendered to him.

Explanation of Plate.

1. *Myrmosa nigrofasciata* n. sp. ♂.
2. Ditto. ♀.
3. Clypeus and mandibles in ♂.
4. Maxillary palpus in ♂.
5. Labial palpus in ♂.
6. Three apical segments of antenna in ♂.
7. Wing with a small excessive cubital cell.
8. Coxa of fore leg in ♂.
9. „ „ mid-leg in ♂.
10. „ „ hind leg in ♂.
11. „ „ „ „ in ♀.
12. Claw
13. 1st and 2nd abdominal segments in ♀, in profile.
14. „ „ „ „ „ „ ♂, in profile.
- 15, 16, 17. Epipygium in ♂, caudal, lateral, and dorsal view respectively.
18. Hypopygium in ♂.
19. Male genitalia in dorsal view.
20. Volsella and sagitta in dorsal view.

摘 要

著者は本小文に於て、膜翅目中我が國に於て未記録の一新種なる、Myrmosidae アリバチモドキ科(新稱)の一新種を記載せり。即ち *Myrmosa nigrofasciata* と命名し、和名をアリバチモドキと新稱せん。從來 *Myrmosa* アリバチモドキ屬(新稱)は永らく Mutillidae アリバチ科に屬せしめられたれども、近來諸先學により特別の一新種 Myrmosidae を構成するに至れり。本科の模式屬の模式種なる歐洲の *Myrmosa melanocephala* は地中に營巢をなす Sphecidae コシボソバチ科の一種、*Oxybelus uniglumis* の寄生蟲にして、これらの生態調査は興味深きものと信ず。本邦には *Oxybelus lewisi* Cameron コキバチ(松村)なる種存すれども、*Myrmosa nigrofasciata* と關係あるものなりや、著者未だこれを詳にする機會を得ざれば他日の研究に俟つの外なし。本種の♂はさほど稀なるものには非ざるも♀を發見する事は極めて困難なり。交尾せるものを採集するを便す。著者の記載に用ひたる材料は、即ちそれなり。本種の飛翔(♂)、或は歩行(♀)はかのアリバチのそれらと何等差異を認めず。

(九州帝國大學農學部昆蟲學教室にて)

