九州大学学術情報リポジトリ
Kyushu University Institutional Repository

A NEW SPECIES OF THE ANT GENUs EPZTRZTUS EMERY FROM JAPAN (HYMENOPTERA, FORMICIDAE)

Ogata, Kazuo

https://doi.org/10.5109/2544

出版情報：ESAKIA. Special Issue 1, pp.197-199, 1990-04-20. Entomological Laboratory, Faculty of Agriculture, Kyushu University
バージョン：
権利関係：

KYUSHU UNIVERSITY

ESAKIA, Special Issue No. 1 : 197-199. April 20, 1990

A NEW SPECIES OF THE ANT GENUS *EPZTRZTUS* EMERY FROM JAPAN (HYMENOPTERA, FORMICIDAE)*

KAZUO OGATA

Entomological Laboratory, Faculty of Agriculture,
Kyushu University, Fukuoka, 812 Japan

Abstract

A new species, *Epitritus hirashimai*, is described from southwestern part of Japan based on workers. This new species is easily distinguished from another Japanese species *E. hexamerus* by the shape of mandibles and the mesonotal profile. This is the eighth species of the genus.

The ant *Epitritus* is a small dacetine genus, distributed from the warmer temperate to tropical areas of the Old World. Up to present 7 species have been described : 4 in the Afrotropical region, 1 in Mediterranean area and 2 in Asia (Bolton, 1983). The genus is characteristic in having the bilobate labrum and the linear mandibles which lack apical fork of spinifom teeth.

Although the genus has been represented by only one described species, *E. hexamerus* Brown, in Japan, the occurrence of the second species has been recognized by several Japanese myrmecologists (cf. "A list of the Ants of Japan" ed. by the Myrmecologists Society (Japan), 1988). The author reexamined the undetermined material collected from various localities of southwestern Japan, and found that the species is new to science.

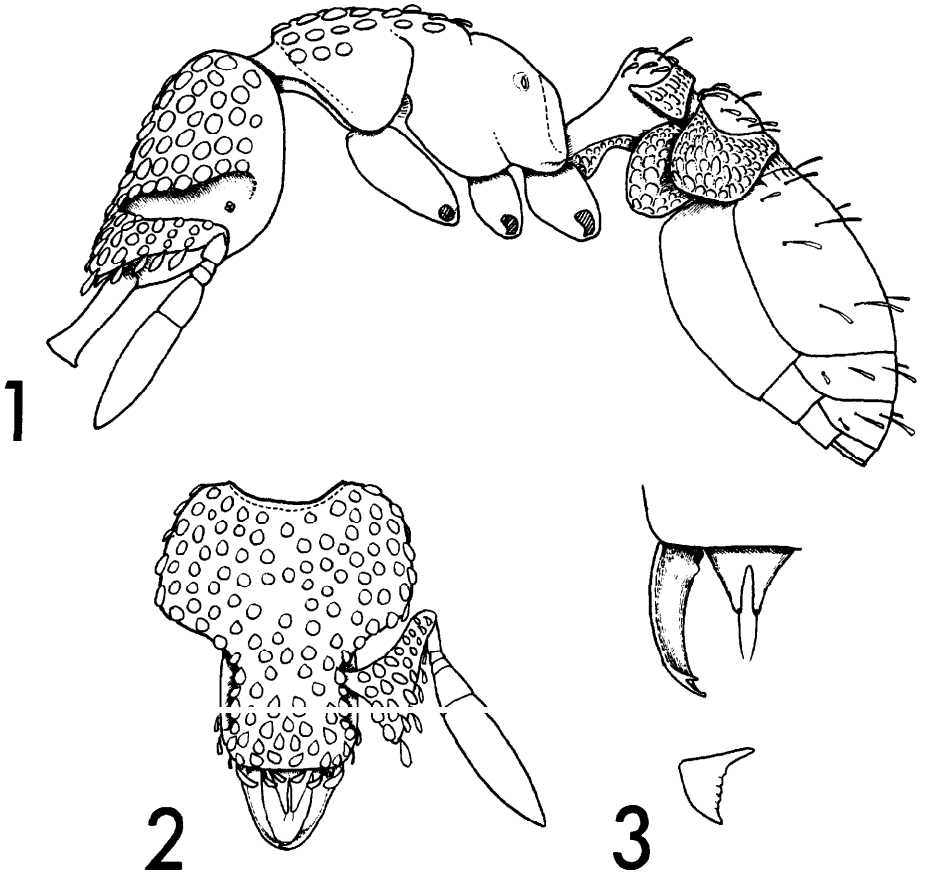
Before going further, I wish to express my sincere thanks to Prof. Emeritus Y. Hirashima and Prof. K. Morimoto, Entomological Laboratory, Kyushu University, for their constant guidance and encouragement. I am much indebted to the following persons who kindly offered the valuable material : Dr. K. Onoyama, Obihiro University of Agriculture and Verterinary Medicine, Obihiro, Mr. M. Terayama, Tokyo, Mr. K. Murata, Utsunomiya, Dr. A. Miyata, Oita, and Mr. H. Takamine, Naha.

Epitritus hirushimai n. sp. (Figs. 1-3)

Worker : TL 1.1-1.4 mm, HL 0.40-0.46 mm, HW 0.36-0.40 mm, CI 82-95, ML 0.12-0.14 mm, MI 27-33, SL 0.20-0.24 mm, SI 55-63, PW 0.20-0.24 mm, AL 0.42-0.48 mm (11 measured ; for the definitions of measurements, indices and their abbreviations see Bolton, 1983).

Head slightly longer than broad, with flattened dorsum ; posterior margin roundly and shallowly emarginate with low occipital carina. Mandibles without preapical teeth ; masticatory margin

* Contribution from the Entomological Laboratory, Faculty of Agriculture, Kyushu University, Fukuoka (Ser. 4, No. 8).



Figs. 1-3. *Epitritus hirashimai* n. sp. 1, worker, lateral view ; 2, same, head, frontal view; *3,* right mandible, (above - dorsal view, below - anterior view).

broadened almost vertically, with small but acute dorsal spiniform tooth and smaller ventral one which do not form fork-like structure as in *Strumigenys* ; intercalary with 4-5 indistinct minute teeth. Apical portion of labrum with two distinct lobes which are visible in frontal view. Clypeus flattened with almost straight anterior margin and rounded lateral comers. Antennae 6-segmented ; scape depressed, with distinct subbasal lobe forming acute angle ; third and fourth antenna1 segments small, their combined length shorter than 1/2 of second antenna1 segment ; apical segment long, almost 3X as long as preapical one. Eyes small, consisting of 4 to 5 facets.

Pronotum marginate anteriorly and depressed ; broadest at anterior 1/3 of whole length of trunk in dorsal view. Promesonotal suture indistinct. Mesonotum less raised, not overriding on propodeum. Metanotal groove distinct dorsally. Propodeum with gently sloped dorsal surface and distinct posterior lamelliform appendages, but without dentiform projections posterodorsally. Petiole with narrow anterior peduncle and with low and rounded node. Postpetiolar node depressed. Spongiform appendage well developed on petiole and postpetiole.

Mandible shallowly and coarsely punctate. Dorsum of head including clypeus, antenna1 scapes, dorsum of promesonotal area of trunk, legs petiole and postpetiole reticulate ; the remainder of body

smooth and shining. Orbicular hairs present on dorsal surface of head, scapes and promesonotal area ; spatulate hairs present on anterior margin of clypeus (three pairs), outer margin of scape, legs, dorsum of petiole and postpetiole ; clavate hairs standing on petiole postpetiole and gaster.

HOLOTYPE : Worker (Type No. 2792, Kyushu Univ.), Toshima Is., Izu IsIs., 27. iii. 1986, K. Murata et M. Terayama leg.

PARATYPES: 54 workers, same data as holotype; 1 workers, Kuroko Is., Hirado, Nagasaki Pref., 6. ix. 1982 (K. Ogata & S. Eto) ; 4 workers, Hazama, Oita Pref., 5. xi. 1985 (A. Miyata) ; 2 workers, Izuhara-Ariakeyama (Izuhara-Jinjya Shrine), Tsushima Is., Nagasaki Pref., 25. ix. 1959 (T. Hidaka, K. Morimoto & T. Kawarabata) ; 3 workers, Mt. Yuwan, Amami-Oshima Is., 16. viii. 1986 (H. Takamine).

REMARKS : The species is rare. Most of the material were found in soil. The two Japanese species are separated by the following characters:

hexamerus	*hirashimai*
Size larger (HW 0.5 mm or more)	Size smaller (HW 0.4 mm or less)
Mandibles with two pairs of preapical teeth	Mandibles without preapical teeth
Mesonotum overriding propodeum	Mesonotum not overriding propodeum
Propodeum with paired posterior projections	Propodeum without paired posterior projections

The absence of preapical teeth on mandibles and less raised mesonotal profile in *hirashimai* are also available for separating from another Asian species *E. murphyi* Taylor of West Malaysia and Sarawak. These character states are found in *E. minimus* Bolton from West Africa. But the latter has 4-segmented antennae.

In the check list of Japanese ants published by the Myrmecologists Society, Japan (1988), the species was distinguished as *Epitritus* sp. 2 with the Japanese name, "himesedaka-urokoari". This new species is named after Professor Yoshihiro Hirashima in honor of his retirement from the Entomological Laboratory, Kyushu University.

References

Bolton, B., 1983. The Afrotropical dacetine ants (Formicidae). *Bull. Brit. Mus. nat. Hist. (Ent.),* 46 : 267-416.

Brown, W. L., Jr., 1958. A new Japanese species of the dacetine ant genus *Epitritus*. *Mushi*, 31: 69-72.

The Myrmecologists Society (Japan') (ed.), 1988. ***A list of the ants of Japan with common Japanese names. 50*** pp. Tokyo.