

The types of Braconidae described by Friedrich Boie (Hymenoptera: Ichneumonoidea)

by

C. van ACHTERBERG

Rijksmuseum van Natuurlijke Historie, Leiden

ABSTRACT. — The types of Braconidae described by F. Boie have been examined and lectotypes are designated for both species. *Alysia orchesia* Boie, 1840 is a new junior synonym of *Meteorus obfuscatus* (Nees, 1812) and *Perilitus wesmaeli* Boie, 1850 is a new junior synonym of *Zele albiditarsus* Curtis, 1832.

The Boie Collection

Friedrich Boie (1789-1870) was a wellknown amateur ornithologist and entomologist, who lived most of his life in Kiel (now West Germany). Dr. K. Horstmann (Würzburg) drew my attention to the existence of the Boie Collection in the Zoologisches Museum der Universität Kiel. For a bibliography and a portrait of F. Boie, see Henriksen (1925-26: 191-193), who already reported the deposition of the Boie Collection in the Kiel Museum. The collection of F. Boie seems to have been the second collection of Hymenoptera Parasitica acquired by the Kiel Museum; the first was the private collection of J. C. Fabricius. F. Boie described several new species of Ichneumonoidea; two of these species belong to the Braconidae. According to dr. Horstmann, the Braconidae and Chalcidoidea are in good condition. They have been removed from their original drawers to standard museum boxes. In a handwritten catalogue made by Boie himself, there are often remarks on localities, hosts or collectors given under the species name.

The Boie specimens are recognizable by the ornamented labels; in case of type specimens the name of the species is followed by a "B." (fig. 1); the same abbreviation is used in the catalogue. There are many manuscripts names both in the catalogue and in the collection. Among the Chalcidoidea (dr. Z. Bouček, in litt.) and the Cynipoidea there are obviously no types present. Unfortunately of the Ichneumonidae described by Boie (total of 33 species) no type-specimens could be found by dr. Horstmann; only the genus *Pezomachus* (sensu Gravenhorst) is present in Boie's collections, the rest must have been removed. At least some syntypes are present in the Stockholm Museum, but further research is necessary to be certain about the fate of the Ichneumonidae-types.

Braconidae described by F. Boie

F. Boie described two species of Braconidae, both series are in good condition and could be studied. Both proved to belong to the Euphorinae-Meteorini and the specimens selected as lectotypes bear the typical Boie labels (fig. 1).

Alysia orchesia Boie

Boie, 1840: 315-316; Shenefelt, 1974: 950.

The original series consisted of 12 specimens of which 1 ♀ (with a ♂ on the same pin) and 4 ♂ syntypes remain. The ♀ is here designated as lectotype; it has been reared from *Orchesia micans* (Panzer) (Coleoptera: Melandryidae) in *Boletus fuscus* Persoon on *Fagus sylvaticus* L. The lectotype belongs to the genus *Meteorus* Haliday, has 28 antennal segments, length of fore wing 3.4 mm, of body 3.7 mm, length of ovipositor sheath $0.40 \times$ fore wing, $1.9 \times$ 1st metasomal tergite, and precoxal sulcus narrowly sculptured. In the key by Huddleston (1980) it runs

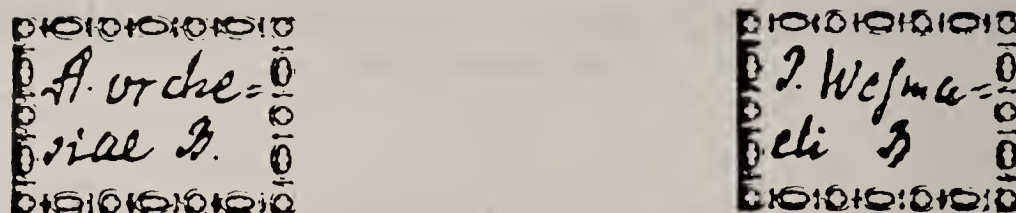


Fig. 1. labels of lectotypes of Braconidae described by F. Boie

to *Meteorus obfuscatus* (Nees, 1812) known to be a parasite of *Orchesia micans* (Panzer) (Huddleston, 1980: 7). *Meteorus orchesia* (Boie, 1840) is a new junior synonym of *M. obfuscatus* (Nees).

Perilitus wesmaeli Boie

Boie, 1850: 214; Shenefelt, 1969: 100.

The original series of 3 ♀ syntypes is still present; 1 ♀ with the handwritten label by Boie (fig. 1) is here designated as lectotype; it is obviously one of the two ♀ mentioned first in the original description. The other two specimens are conspecific; all have the 1st tergite rather robust (its length about twice the apical width) and have the hind tarsus largely whitish with a yellowish tinge. The blackish patch mentioned by Boie is a small black triangular sclerite below the lateral carina of the mesoscutum, at the base of the fore wing; a feature present in all specimens of this species. The lectotype belongs to the genus *Zele* Curtis, has the length of the fore wing 8.1 mm, and the length of the fore femur 6.1 times its maximum width. *Zele wesmaeli* (Boie, 1850) is a new junior synonym of *Z. albiditarsus* Curtis, 1832. In the key by Van Achterberg (1979) it runs to the nominate form of *Z. albiditarsus* Curtis.

Acknowledgements

I am grateful to dr. K. Horstmann (Würzburg) for sorting out the specimens and allowing me to use his notes, to dr. P. Ohm (Curator Boie Collection, Kiel) and to dr. R. König (Kiel) for allowing the loan of the types.

REFERENCES

- Achterberg, C. van, 1979. A revision of the subfamily Zelinae auct. (Hym., Braconidae). — *Tijdschr. Ent.* 122: 241-479, figs. 1-900.
- Boie, F., 1840. Entomologische Beiträge. — *Naturh. Tidsskr.* 3: 315-324.
- , 1850. Id. — *Stettin. ent. Ztg.* 11: 29-32, 212-216, 359-360.
- Henriksen, K. L., 1925-1926. Oversigt over Dansk Entomologisk Historie. — *Ent. Meddr.* 15: 145-240.
- Huddleston, T., 1980. A revision of the western Palaearctic species of the genus *Meteorus* (Hym.: Braconidae). — *Bull. Br. Mus. nat. Hist., Entomology* 41 (1): 1-58, figs 1-58.
- Shenefelt, R. D., 1969. Braconidae, pt. 1. — *Hym. Cat. (nov. ed.)* 4: 1-175.
- , 1974. Braconidae, pt. 7. — *Hym. Cat. (nov. ed.)* 11: 937-1114.

Postbus 9517, 2300 RA Leiden, The Netherlands.