

Redescriptions of Four Ichneumonine Genera and Species (Hymenoptera: Ichneumonidae: Ichneumoninae) New to Korea

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ABSTRACT

We report four genera and species, *Aoplus rufiflor* (Uchida, 1925), *Bystra kasukusensis* (Uchida, 1929), *Setanta apicalis* (Uchida, 1926), and *Zanthojoppa speciosa* (Uchida, 1926), of the subfamily Ichneumoninae for the first time in Korea. Photographs and descriptions are provided to aid their identification.

Key words: *Aoplus*, *Bystra*, *Setanta*, *Zanthojoppa*, Ichneumoninae, Ichneumonidae, Korea

INTRODUCTION

The Ichneumoninae is the second largest subfamily of the family Ichneumonidae with varied host preferences, and is cosmopolitan parasitoids recorded from neotropical to arctic region. All species of the subfamily Ichneumoninae are endoparasitoids. They usually attack most extant lepidopteran groups except a few species groups.

The taxonomic study of the Korean Ichneumoninae was initiated by Uchida. He reported *Protichneumon nakaeensis* (Matsumura, 1912) and *Holcojoppa bicolor* (Radoszkowski, 1887) from Korea for the first time (Uchida, 1925). For the next 15 years, Uchida (1926, 1927, 1929, 1930, 1935, 1940) and Matsumura (1931) have described 26 species. Kim (1955) and Uchida (1955) added 55 species of Korean Ichneumoninae. Kim (1958) and Townes et al. (1965) newly included six species in Korean fauna. Kim (1970) described 88 species in his illustrated book of Korean Hymenoptera. Two species were recorded from Korea by Kim and Lee (1982) and Kusigemati (1988) for the last three decades. Most recently, Yu (2005) listed 97 species under 40 genera of the subfamily Ichneumoninae from Korea. However, there still are many unidentified ichneumonines in Korea waiting to be described.

In the present study, we report four additional genera and species of Ichneumoninae for Korean fauna: *Aoplus rufiflor* (Uchida, 1925), *Bystra kasukusensis* (Uchida, 1929), *Setanta apicalis* (Uchida, 1926), and *Zanthojoppa speciosa* (Uchida, 1926). We also provide photographs and descriptions.

MATERIALS AND METHODS

Materials used in this work have been collected by malaise trap (MT) and sweeping, and deposited in Animal systematics laboratory of the Yeungnam University (YNU), Daegu, Korea). All the voucher specimens used in this study were loaned from the Systematic Entomology Laboratory, Hokkaido University, Japan.

Abbreviations used in this paper are as follows: Korean provinces-GG, Gyeonggi-do; GW, Gangweon-do; CB, Chungcheongbuk-do; CN, Chungcheongnam-do; GB, Gyeongsangbuk-do; GN, Gyeongsangnam-do; JB, Jeollabuk-do; JN, Jeollanam-do. Museums and institutions- BMNH, The Natural History Museum, Department of Entomology, Cromwell Road, London, England; SEHU, Entomological Institute, Faculty of Agriculture, Hokkaido University, Sapporo, Japan.

TAXONOMIC ACCOUNTS

Order Hymenoptera

Family Ichneumonidae Latreille, 1802

Subfamily Ichneumoninae Latreille, 1802

Tribe Ichneumonini Latreille, 1802

^{1a}Genus *Aoplus* Tischbein, 1874

Aoplus Tischbein, 1874, p. 137. Type Species: *Aoplus inermis* Tischbein, 1874.

Trachichneumon Viereck, 1912, p. 645. TS: *Ichneumon confirmatus* Cresson, 1877. Synonymized by Townes (1944).

^{2a}*Aoplus rufiflor* (Uchida, 1925) (Figs. 1A-1K)

Protichneumon rufiflor Uchida, 1925, p. 449. Type: male;

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^{1a}자나팔살아벌식벌속, ^{2a}갈색자나팔살아벌식벌

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