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ONE NEW DRAGONFLY FROM HOKKAIDO

By

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(With Plate I)

In this paper is given a description of one new species of *Odonata* from Hokkaido.

On this occasion the writer must express his sincere thanks to Professor Emeritus Dr. S. MATSUMURA and Ass. Professor Dr. T. UCHIDA who are so kind enough to give the permission to inspect the literatures and examine the specimens preserved in the Entomological Institute of the Hokkaido Imperial University, Sapporo. The writer's gratitude is also due to Messrs. C. WATANABE and Y. SUGIHARA for their kind help in completing this work.

Family *AESCHNIDAE*

Subfamily GOMPHINAE

Genus *Gomphus* LEACH

Gomphus LEACH, Edimb. Encycl., IX, p. 137 (1815); SELYS et HAGEN, Rev. Odon., p. 81 (1850); SELYS, Synops. Gomph., p. 25 (1854).

Aeschna KIRBY, Cat. Odon., p. 64 (1890) (part).

Gomphus moiwanus MATSUMURA et OKUMURA, n. sp.

A pretty steady blackish species of small size, striped with dull pale lemon yellow, the abdomen black with narrow yellow rings.

Male (adult)—Labium, labrum, ante- and postclypeus blackish; frons dull lemon yellow, except a narrow anterior border of the horizontal surface which is black; vertex and occiput black; antennae nearly black. Eyes dark brown, probably dark greenish glaucous in life.

Synthorax black, with dull lemon yellow markings, the frontal part black, with 2 longitudinal dull lemon yellow stripes, not reaching to the collar and the ante-alar ridge, and with a small yellow spot near the scapula; mesepimeron with a dull lemon yellow pattern between the humeral and second lateral sutures except a lower black line along the latter; metepisternum blackish,

with a dull yellow pattern, not extend to the upper part, and with a narrow streak, descending from the spiracle and continuing to the upper pattern; a greater part of metepimeron dull yellow. Legs black. Wings entirely hyaline, sometimes slightly smoky; veins black, pterostigma brown to dark brown.

Abdomen black, marked with narrow yellow rings. A middorsal longitudinal yellow stripe on tergites 1 and 2; segments 1 and 2 laterally yellow; auricles yellow; genitalia black; segments 3 to 8 with a basal triangle and a narrow line; segments 9 and 10 unmarked. Anal appendages dark brown to black. Segments 1 and 2 thick, segment 3 the slenderest, segments 3 to 9 becoming thick gradually. Segments 4 and 5 the longest, segments 1 and 10 shorter than the others. Segment 10 rapidly narrowed towards the apex, pointed at the end. Tergum of segment 10 enlarged on the middle part. Superior anal appendages a little shorter than the last segment, stout, cylindrical and sharply pointed at the apex, with an inwardly curved hook at the base.

Female (adult)—Closely resembles the male in colour, but a dull lemon yellow stripe is placed just behind the quadrangular spot on each side of abdominal segments 3 to 8. Vulvar scale much shorter than the anal appendages which are shorter than the segment 10.

Length: ♂ abd. app. 31, hw. 25, pterostigma 3 mm.

♀ „ „ 29.5, „ 26.5, „ 3.5 mm.

Holotype (♂): Moiwa near Sapporo, VII. 1905 (Dr. S. MATSUMURA).

Allotype (♀): Jōzankei near Sapporo, 1/VII. 1912 (Dr. S. MATSUMURA).

Paratype: Sapporo, 1 ♀, 12/VII. 1905 (Dr. S. MATSUMURA), 1 ♀, 10/VI. 1931 (K. SATO); Moiwa, 1 ♂, VII. 1905 (Dr. S. MATSUMURA); Ishiyama near Sapporo, 3 ♂ ♂, 6/VIII. 1929 (Dr. S. MATSUMURA); Jōzankei, 1 ♂, 8/VII. 1907, 1 ♂, 1/VIII. 1917 (Dr. S. MATSUMURA), 2 ♀ ♀, 8/VII. 1925 (Dr. S. MATSUMURA and K. TAMANUKI), 1 ♀, 17/VII. 1926 (K. TAMANUKI); Kucharo near Kushiro, 1 ♂, 14/VIII. 1917 (Dr. S. MATSUMURA).

Habitat: Hokkaido.

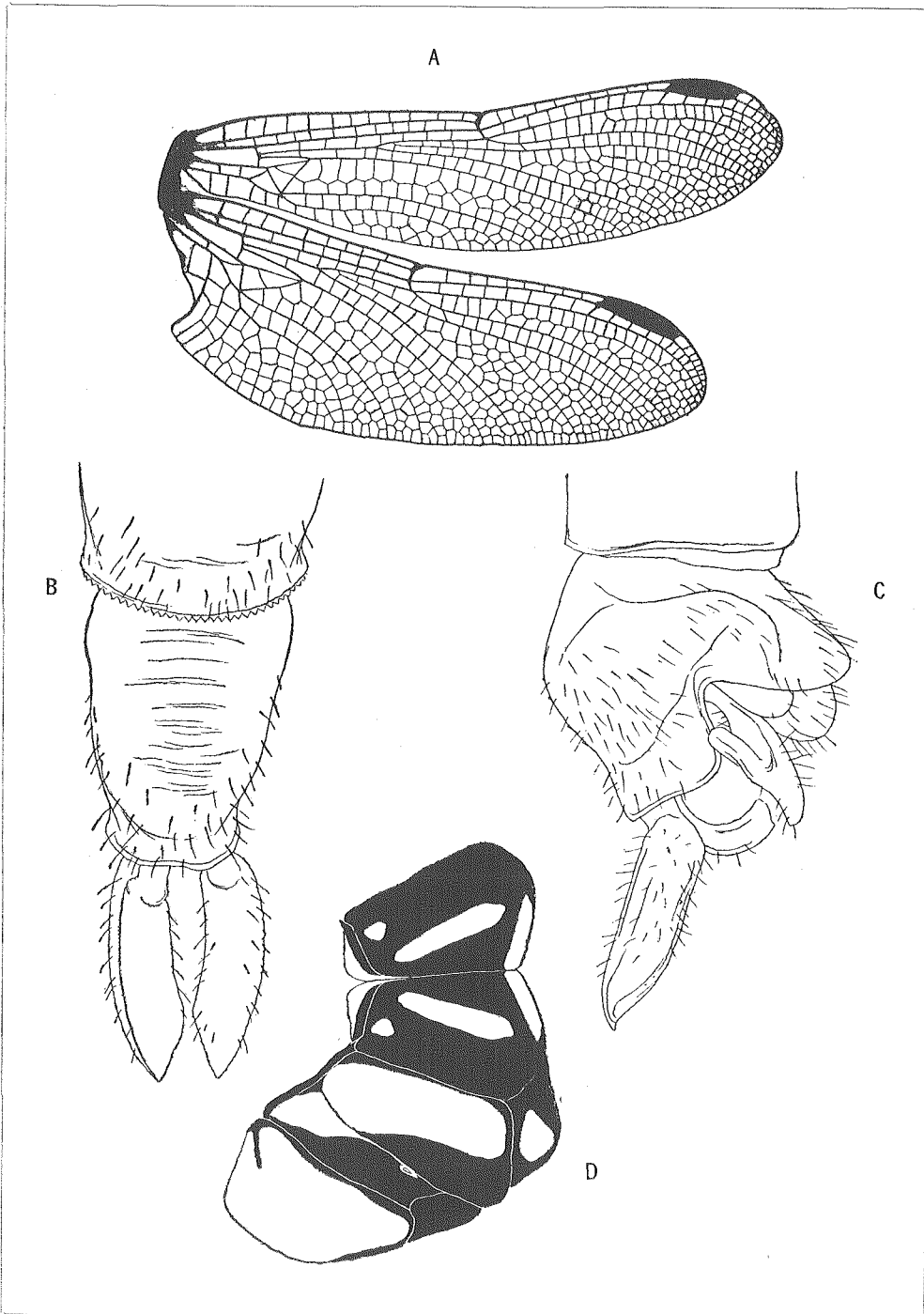
Nom. Jap.: *Yezo-sanae*.

This species is closely allied to *Gomphus hakiensis* MATSUMURA, but easily distinguished from the latter by the colour-pattern of synthorax and the structure of the anal appendages.

The types are deposited in the Entomological Institute of the Hokkaido Imperial University, Sapporo, Japan.

Explanation of Plate I

- A. Wings of *Gomphus moirwanus* n. sp. (♂).
- B. Anal appendages of *Gomphus moirwanus* (♂) (dorsal view).
- C. Ditto (lateral view).
- D. Colour-patterns of synthorax of *Gomphus moirwanus* (♂).



Del. OKUMURA