Redescription of *Cyphon patiens* Klausnitzer based on the Japanese Specimens

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Abstract

*Cyphon patiens* Klausnitzer is newly recorded from Japan, with redescription and figures.

Key words: Scirtidae, Coleoptera, *Cyphon partiens*, redescription, Hokkaido

Introduction

Recently the second author found out that two variations of the male genitalia in *Cyphon ainu* Nakane distributed in Hokkaido, Japan. After the careful examination of our collections and type specimens, it become clear that one of them is true *Cyphon ainu* Nakane and another is *Cyphon patiens* Klausnitzer known from Kunashir Islands.

In the present paper, we redescribe *Cyphon patiens* Klausnitzer based on the Japanese specimens.

Methodology and abbreviations were shown in the previous study (Yoshitomi, 2005).

Taxonomy

*Cyphon patiens* Klausnitzer, 1982

*Cyphon patiens* Klausnitzer, 1982, 280 [Type: in ZIL, examined].

*Cyphon ainu*: Yoshitomi, 2005, 103 [a part, misidentification].

[Japanese name: Nise-ainu-chibi-maruhanomi]


Redescription. Male. The external features fully described by Klausnitzer (1982); PW/PL 2.00–2.21 (2.11); ELiEW 1.53–1.85 (1.71); ELiPL 4.83–5.52 (5.17); EW/PW 1.33–1.58 (1.44); TL/EW 1.84–2.20 (2.05). Caudal margin of sternite VII lightly convex.

Tergite VIII well sclerotized; median plate forming lobe-like projection, finely punctate; lateral projections short, curved interiorly, obtuse at apices, closely covered with large punctures in apical 1/3. Tergite IX well sclerotized, consisting of a pair of rod-like hemitergite, as long as tergite VIII; spines obtuse, bearing short setae. Tegmen short, well sclerotized; parameres short, curved dorsally, pointed at apices. Penis short, well sclerotized; parameroid forming lobe-like projection, lacking any projections in lateral margin, obtuse at apex.

Female. Sexual dimorphism indistinct. PW/PL 2.13–2.25 (2.19); EL/EW 1.69–1.80 (1.75); EL/EW 5.08–5.54 (5.32); EW/PW 1.32–1.50 (1.39); TL/EW 2.00–2.13 (2.08). Caudal margin of sternite VII arcuate.

Tergite VIII moderately sclerotized, trapezoidal, shallowly concave in caudal margin, which bearing short spines, sparsely covered with minute setae in caudal part; apodemes long and slender. Sternite VIII moderately sclerotized, bearing short setae in apical part, rather straight in apical margin. Ovipositor long, two pairs of apical setae in stylus; relative length of stylus, coxite and baculus as (n = 1) 1.0 : 4.1 : 18.3. Prehensor weakly sclerotized, V-shaped.

Measurement. Male (n = 8): TL 3.39–4.08 (3.71)
Amm; PW 1.15–1.40 (1.27) mm; PL 0.52–0.68 (0.60) mm; EL 2.87–3.40 (3.10) mm; EW 1.75–1.90 (1.81) mm. Female (n = 3): TL 3.60–3.80 (3.70) mm; PW 1.20–1.35 (1.28) mm; PL 0.55–0.61 (0.59) mm; EL 3.05–3.20 (3.12) mm; EW 1.75–1.80 (1.78) mm.

**Distribution.** Kunashir, Hokkaido (east and northern parts).

**Remarks.** This species belongs to subgroup A of *Cyphon collaris* species-group (sensu Yoshitomi, 2005). This is closely related to *Cyphon ainu* Nakane distributed sympatrically (see Figure 3), and differs from the latter by the following characteristics: 1) lateral projections of tergite VIII shorter than median plate, closely covered with large punctures in apical 1/3; 2) parameroid of penis forming lobe-like projection; 3) apical margin of sternite VIII of female rather straight; 4) tergite VIII of female shallowly concave in caudal margin.

In the original description of this species (p. 280–282 in Klausnitzer, 1982), the following mistakes were presented: sternite IX (also fig. 23) – lateral projections of tergite VIII; tegmen (also fig. 24) – penis and upside-down; penis (also fig. 25) – tegmen.

**Cyphon ainu** Nakane, 1963


[Japanese name: Ainu-chibi-maruhananomi]


Other materials were recorded by Yoshitomi (2005) except for the specimens of misidentification to *Cyphon patiens* Klausnitzer, 1982 (see above).

**Discussion**

We can not find the differential characters between *C. ainu* and *C. patiens* in the external features, so we have to check the male and female genitalia.

The following keys are addition to “Key to species of *Cyphon collaris* species-group of Japan” (Yoshitomi, 2005, p. 100–103).

1. Coloration of body almost yellowish-orange throughout; distributed in Hokkaido .......... 1’
   - Coloration of body almost blackish-brown throughout, but some species have yellowish-orange in pronotum only; distributed in Honshu, Shikoku and Kyushu. ...................... 2

1’. Lateral projections of tergite VIII of male shorter than median plate, closely covered with large punctures in apical 1/3; parameroid of penis forming lobe-like projection; apical margin of sternite VIII of female rather straight; tergite VIII of female shallowly concave in caudal margin. ..................

............................................. *C. patiens* Klausnitzer

............................................. Lateral projections of tergite VIII of male longer than median plate, closely covered with short setae; parameroid of penis expanded laterally in apical part; apical margin of sternite VIII of female arcuate; tergite VIII of female arcuate in caudal margin. .......................... *C. ainu* Nakane

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**Figure 1.** Habitus of *Cyphon ainu* Nakane (A) and *Cyphon patiens* Klausnitzer (B).
Figure 2.

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References

