Scirtid Beetles (Coleoptera, Scirtidae) of the Oriental Region
Part 10. New Species and New Record of Cyphon variabilis Species-Group

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Abstract Four new species of Cyphon variabilis species-group, C. putzi sp. nov.,
C. kotanus sp. nov., C. apoanus sp. nov., and C. sagadanus sp. nov., are described from
China, Malaysia and the Philippines respectively. Additional specimens of Cyphon
thailandicus RUTA, 2004 and Cyphon weigeli KLAUSNITZER, 2005 are recorded.

Introduction

Cyphon variabilis species-group (sensu NYHOLM, 1972 and YOSHI TOMI, 2005) is
characterised by the following characteristics: tergites VIII–IX rod-like with hemiter-
gites, sternite VIII membranous, sternite IX covered with long setae in apical part,
tegmen variously shaped, penis tending to reduction and smaller than tegmen.

In the Oriental Region, five species of this group have been recorded from the
Philippines, Nepal, and Thailand so far (KLAUSNITZER, 2005 a, b, c; RUTA, 2004). In
the present paper, I describe four new species from China, Malaysia, and the Philippines
respectively.

For methodology and abbreviations see YOSHI TOMI (2005). Type depositories are
as follows: Naturhistorisches Museum Wien, Austria (NMW); Entomological Labora-
tory, Ehime University, Matsuyama, Japan (EUM); Collection of Dr. Andreas PÜTZ,
Eisenhüttenstadt, Germany (CPE).

Taxonomy

Cyphon putzi sp. nov.
(Figs. 1A, 2)

Type material. Holotype (CPE): male, “CHINA: Yunnan [CH07–14], Baoshan
Pref., Gaoligong Shan, 33 km SE Tengchong, 2100–2200 m, 24°51’22”N, 98°45’36”E,
decid forest, litter, wood fungi sifted, 31.V.2007, leg. A. Pütz”.

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Description. Body oval, dorsally convex, shining, densely covered with yellowish-white setae. Coloration of body yellowish-brown; apical parts of antennae and basal part of elytra infuscate.

Head moderate in size, dorsally finely granulate; anterior margin of clypeus almost straight; distance between eyes about 2.0 times as long as the maximal eye’s diameter. Antennae slim, moderate in length. Pronotum transverse, strongly depressed dorso-laterally, finely punctate; anterior margin almost straight; antero-lateral angles obtuse, slightly projecting; lateral margins weakly arcuate; postero-lateral angles almost 120°; posterior margin gently bisinuate; PW/PL 2.37. Scutellum subtriangular, finely punctate. Elytra oval, convex dorsally, widest in middle, strongly punctate, without costae; elytral humeri slightly elevated; EL/EW 1.39; EL/PL 4.92; EW/PW 1.50; TL/EW 1.67. Legs relatively long.

Caudal margin of sternite VII arcuate. Tergite VIII long, well sclerotized, rod-like hemitergites, apically expanded laterally, with membranous projections on inner margin of apical parts. Tergite IX long, well sclerotized, rod-like hemitergites, slightly longer than tergite VIII, densely covered with shallow and large oblong concavities on apical half, pointed at apices. Sternite IX moderately sclerotized, fan-shaped, apically with short setae, intermingled with fine punctures. Tegmen large, slightly sclerotized, trapezoidal in posterior part (= parameres), widest at posterior margin, densely covered with short setae. Penis as long as tegmen, well sclerotized; pala oblong, arcuate on basal margin; parameroids projecting antero-laterally, pointed at apices; trigonium shallowly excised in median part.

Measurements (n = 1). TL 2.25 mm; PW 0.90 mm; PL 0.38 mm; EL 1.87 mm; EW 1.35 mm.

Distribution. China (Yunnan Prov.).
Fig. 2. *Cyphon putzi* sp. nov., holotype.—A, Sternites V–VII; B, right piece of tergite VIII; C, right piece of tergite IX; D, sternite IX; E, tegmen; F, penis.

**Remarks.** This species is similar to *Cyphon jaegeri* KLAUSNITZER, 2005 known from Nepal by the shapes of tergites VIII–IX and penis, but differs from it by the following characteristics: 1) sternite IX fan-shaped, bearing setae (*C. jaegeri* is project-
ing postero-mesally, and lacking setae); 2) tergite IX with concavities (without concavities in *jaegeri*); 3) parameroids of penis distinctly projecting laterally (slightly projecting in *jaegeri*).

**Etymology.** This species is named after Dr. Andreas Pütz, collector of the holotype.

*Cyphon kotanus* sp. nov.

(Figs. 1B, 3)

**Type material.** Holotype (NMW): male, "MALAYSIA, Sabah 1993 50 km E Kota Kinabalu Crocker Mts., Gg. Emas 16°27.4. Strba & Jenis", genit. s. no. HY 964.

**Description.** Body oval, dorsally strongly convex, shining, densely covered with yellowish-white setae. Head, mouth parts, antennal segments I–V, pronotum, scutellum, legs and ventral surfaces of thoraces and abdomen reddish-brown; antennal segments VI–XI and elytra black; elytral humeri and apical fourth of elytra reddish-brown.

Head moderate in size, dorsally finely granulate; anterior margin gently arcuate; the distance between eyes about 2.1 times as long as the maximal eye’s diameter. Antennae slender, reaching about proximal 1/4 of elytra. Pronotum transverse, strongly depressed dorso-laterally, finely punctate; anterior margin almost straight; antero-lateral angles almost right-angled, slightly projecting; lateral margins straight; postero-lateral angles obtuse; posterior margin arcuate; PW/PL 2.40. Scutellum subtriangular, finely punctate. Elytra oval, dorso-mesally convex, widest in middle, finely punctate, without costae; elytral humeri slightly elevated; EL/EW 1.32; EL/PL 4.40; EW/PW 1.39; TL/EW 1.62. Legs relatively long.

Caudal margin of sternite VII straight. Tergite VII pentagonal, with short apodemes. Tergites VIII–IX long, well sclerotized, rod-like hemitergites, pointed at apices. Sternite IX small, slightly sclerotized; anterior part lobed; posterior part expanded laterally, with a pair of small projections bearing short setae. Tegmen slightly sclerotized, circular in posterior part (parameres), widest at apical fourth, densely covered with short setae. Penis longer than tegmen, moderately sclerotized; pala oblong, arcuate on basal margin; parameroids projecting postero-laterally in basal parts, thence abruptly curved postero-laterally, obtuse at apices; trigonium gently projecting, shallowly concaved in median part.

**Measurements** (n=1). TL 2.43 mm; PW 1.08 mm; PL 0.45 mm; EL 1.98 mm; EW 1.50 mm.

**Distribution.** Malaysia (Sabah).

**Remarks.** Within the *Cyphon variabilis* species-group, this species differs in having: 1) posterior part of sternite IX expanded laterally, with a pair of small projections bearing short setae; 2) parameroids projecting postero-laterally in basal parts, thence abruptly curved postero-laterally. The character state of trigonium shallowly concaved in median part is similar to that of *Cyphon putzi* sp. nov.

**Etymology.** The species is named after the type locality.
Cyphon kotanus sp. nov., holotype. — A, Sternites V-VII; B, right piece of tergite VIII; C, right piece of tergite IX; D, sternite IX; E, tegmen; F, penis.

Cyphon apoanus sp. nov.
(Figs. 1C, 4)


Description. Body oval, dorsally convex, shining, densely covered with yellowish-white setae. Coloration of body reddish-brown; legs paler.
Head moderate in size, finely punctate; anterior margin of clypeus almost straight; the distance between eyes about 2.1 times as long as the maximal eye's diameter. Pronotum transverse, depressed dorso-laterally, finely punctate; anterior margin almost straight; antero-lateral angles strongly projecting, about 60°; lateral margins almost straight; postero-lateral angles obtuse; posterior margin gently arcuate; PW/PL 2.21. Scutellum subtriangular, finely punctate. Elytra oval, dorso-mesally convex, widest in middle, punctate as in pronotum, without ccstae; elytral humeri slightly elevated; EL/EW 1.06; EL/PL 3.33; EW/PW 1.42; TL/EW 1.38.

Caudal margin of sternite VII arcuate. Tergite VIII moderately sclerotized, rod-like hemitergites, obtuse at apices. Tergite IX moderately sclerotized, rod-like hemitergites, shorter than tergite VIII, expanded apically. Sternite IX well sclerotized, Y-shaped; basal part short, slightly expanded laterally and basally; apical part gently
curved inwardly, bearing short setae in apical half. Tegmen small, slightly sclerotized, subtriangular, posteriorly densely covered with short setae. Penis small, slightly sclerotized, longer than tegmen; pala oblong, subparallel, gently arcuate on basal margin; parameroids slightly convex; trigonium long, claw-like, apically curved inwardly, pointed at apices.

**Measurement** (n=1). TL 1.86 mm; PW 0.95 mm; PL 0.43 mm; EL 1.43 mm; EW 1.35 mm.

**Distribution.** Philippines (Mindanao Isl.).

**Remarks.** By Y-shaped sternite IX and long claw-like trigonium, this species resembles representatives of the “ochraeus subgroup” of *Cyphon coarctatus* species-group (sensu Klausnitzer, 2005 d), but its hemitergites VIII–IX are characteristic for the *variabilis* species-group.

**Etymology.** The species is named after the type locality.

*Cyphon sagadanus* sp. nov.

(Figs. 1D, 5)

**Type material.** Holotype (EUM): male, “Luzon: PHILIPPINES Sagada (1550 m) nr. Bontoc Mount. Prov. 23.VII.1985 M. Sakai leg.”, genit. s. no. HY 967.

**Description.** Body oval, dorsally convex, shining, densely covered with yellowish-white setae. Coloration of body pale brown.

Head moderate in size, finely punctate, dorsally slightly convex; anterior margin of clypeus slightly arcuate; the distance between eyes about 2.1 times as long as the maximal eye’s diameter. Pronotum transverse, depressed dorso-laterally, finely punctate; anterior margin almost straight; antero-lateral angles perpendicular, projecting; lateral margins gently arcuate; postero-lateral angles obtuse; posterior margin gently arcuate; PW/PL 2.38. Scutellum subtriangular, finely punctate. Elytra oval, dorso-mesally convex, subparallel from elytral base to apical third, punctate as in pronotum, without costae; elytral humeri elevated; EL/EW 1.41; EL/PL 4.58; EW/PW 1.37; TL/EW 1.72. Legs relatively long and slim.

Caudal margin of sternite VII arcuate. Tergite VIII slightly sclerotized, rod-like hemitergites, pointed at apices. Tergite IX slightly sclerotized, as long as tergite VIII, rod-like hemitergites, expanded laterally in apical parts. Sternite IX moderately sclerotized; basal half club-like, expanded basally; apical half oblong-oval, deeply excised in median part of apical margin, with a pair of claw-like projections on apical margin, bearing short setae apically. Tegmen small, slightly sclerotized, trapezoidal in posterior part (parameres), widest at apical half, densely covered with short setae. Penis small, slightly sclerotized, longer than tegmen; pala oblong, evenly tapered basally; parameroids indistinct; trigonium long, claw-like, curved interiorly, pointed at apices.

**Measurements** (n=1). TL 2.23 mm; PW 0.95 mm; PL 0.40 mm; EL 1.83 mm; EW 1.30 mm.

**Distribution.** Philippines (Luzon Isl.).
Fig. 5. *Cyphon sagadanus* sp. nov., holotype. — A, Sternites V–VII; B, tergite VIII; C, tergite IX; D, sternite IX; E, tegmen; F, penis.

Remarks. Within the *Cyphon variabilis* species-group, this species differs in having: 1) sternite IX long, deeply excised in median part of apical margin, with a pair of claw-like projections on apical margin; 2) parameroids of penis indistinct; 3) trigonium long, claw-like, curved interiorly, pointed at apices. The character state of trigonium claw-like projections is similar to that of *Cyphon apoanus* sp. nov.

Etymology. The species is named after the type locality.
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Cyphon thailandicus Ruta, 2004


Additional material. 1 male (EUM), “[North THAI] Maeo Khun Klang 1350 m, Doi Inthanon 17.X.1983 M. Sakai”, genit. s. no. HY 958.
Distribution. Thailand.

Cyphon weigeli Klausnitzer, 2005

Cyphon weigeli Klausnitzer, 2005 b, 300.


Discussion

Based on the male genital characteristics, the variabilis species-group is divided into six subgroups (Klausnitzer, 2005 b), and five species of jaegeri subgroup are known hitherto from the Oriental Region. Two new species, Cyphon putzi sp. nov. and C. kotanus sp. nov., are clearly the jaegeri subgroup (sensu Klausnitzer, 2005 a, b), but the remaining two new species, C. apoanus sp. nov. and C. sagadanus sp. nov., are uncertain in subgroup. In this paper, I propose a new subgroup (apoanus subgroup) for C. apoanus sp. nov. and C. sagadanus sp. nov. The apoanus subgroup is characterized in having claw-like long trigonium which is similar character state in coarctatus species-group.

Key to Subgroup of the Cyphon variabilis Species-group
(modified Klausnitzer, 2005 b)

1. Trigonium distinct, with a pair of projections (＝“apical teeth” in Yoshitomi, 2005); parameroids indistinct .................................................................2
   - Trigonium indistinct; parameroids distinct, projecting apico-laterally; distributed in the Oriental Region ................................................................. jaegeri subgroup
2. Pala oval; trigonium short, with a pair of thumb-like/claw-like projections ......3
   - Pala oblong; trigonium long, claw-like projections; distributed in the Oriental Region ................................................................. apoanus subgroup
3. Basal part of tegmen short, distinctly and abruptly tapered ......................4
   - Basal part of tegmen long, gently and evenly tapered ..........................6
4. Sternite IX oblong; parameres widely plate-like, apical teeth large ...............5
   - Sternite IX trapezoidal; parameres composed a pair of projections; apical teeth...
small and thin; distributed in the Palearctic Region .......... ussuricus subgroup

5. Tegmen not expanded near basal margin; parameres closely covered with short setae and punctures; distributed in Palearctic and Nearctic Regions ......................................................... padi subgroup

- Tegmen expanded near basal margin; parameres closely covered with long setae; distributed in the Palearctic Region .................. hilaris subgroup

6. Tegmen trilobate in posterior part; parameres connected; distributed in Palearctic and Nearctic Regions ........................................ variabilis subgroup

- Tegmen U-shaped; parameres separated; distributed in Palearctic and Nearctic Regions ........................................ pubescens subgroup

List of the Oriental Species of Cyphon variabilis Species-group

Cyphon apoanus sp. nov. ..................................... Philippines (Mindanao Isl.)
Cyphon brancucci Klausnitzer, 2005 ............... Philippines (Mindanao Isl.)
Cyphon jaegeri Klausnitzer, 2005 ................. Nepal
Cyphon kotanus sp. nov. .................................. Malaysia (Sabah)
Cyphon putzi sp. nov. ...................................... China (Yunnan Prov.)
Cyphon sagadanus sp. nov. ............................. Philippines (Luzon Isl.)
Cyphon schmidtii Klausnitzer, 2006 .............. Nepal
Cyphon thailandicus Ruta, 2004 ................. Thailand
Cyphon weigeli Klausnitzer, 2005 ................. Nepal

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要 約

吉富博之：東洋区のマルハナノミ科 パート 10. Cyphon variabilis 種群の新種と新記録種。—— Cyphon variabilis 種群に属する 4 新種。C. putzi sp. nov.（中国）、C. kotanus sp. nov.（マレーシア）、C. apoanus sp. nov.（フィリピン）、および C. sagadanus sp. nov.（フィリピン）を記載した。また、C. thailandicus Ruta, 2004 および C. weigeli Klausnitzer, 2005 の追加標本を記録した。

References


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