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A new species of Subgenus *Xorides* from China (Hymenoptera, Ichneumonidae, Xoridinae)

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Abstract

A new species of Ichneumonidae (Hymenoptera) is described from China: *Xorides* (*Xorides*) *deplanatus* SHENG **sp. nov.** The specimen was collected in Hunan Province at the border between Palaearctic and Oriental Region in China. A key to the species of the subgenus known from the Oriental Part of China is provided.

Key words: Hymenoptera, Ichneumonidae, *Xorides*, new species, China.

Zusammenfassung

Es wird eine neue Ichneumoniden-Art (Hymenoptera) aus China beschrieben: *Xorides* (*Xorides*) *deplanatus* SHENG **sp. nov.** Das Tier wurde in der Provinz Hunan, an der Grenze zwischen paläarktischer und orientalischer Region in China, gesammelt. Ein Schlüssel für die orientalischen Arten der Untergattung in China wird präsentiert.

Introduction

The subgenus *Xorides* LATREILLE, 1809 belongs to the genus *Xorides* LATREILLE, 1809 of the subfamily Xoridinae in Ichneumonidae with 77 species, of which 10 are distributed in China. 2 of them are known from the Oriental Part of China: *X. (Xorides) asperus* WANG & GUPTA, 1995 and *X. (Xorides) centromaculatus* CUSHMAN, 1933. In this study one new species belonging to the Oriental fauna is described. The Holotype is deposited in the collections of the General Station of Forest Pest Management, State Forestry Administration, Shenyang, Liaoning, China.

***Xorides (Xorides) deplanatus* SHENG **sp. nov.** (Figs. 1-3)**

♀. Body 19.5 mm long. Fore wing 14.5 mm long.

Face 2 times wider than long, strongly convex, with dense short wrinkles, mainly punctured centrally. Clypeal suture distinct and deep, distinctly located under line between lower margins of eyes. Basal margin of clypeus with fine punctures, subbasal portion transversely convex, like a ridge, apical portion weakly concave. Apical margin of labrum with dense brown hairs. Mandible with one chisel-shaped tooth. Malar space about 0.8 times as long as basal width of mandible. subocular sulcus distinct. Along subocular sulcus with short transverse wrinkles. Temple with dense longitudinal wrinkles, front and hind margin with fine punctures. Median portion of vertex and stemmaticum with distinct punctures, lateral and hind portion with transverse wrinkles, punctured weakly between wrinkles. Postocellar line 1.2 times as long as ocular-ocellar line. Frons with dense transverse wrinkles, punctured between wrinkles. Flagellum with 27 segments, each of them longer than its own diameter; reciprocal segment 2 is the shortest and 1.3 times longer than its diameter; outer sides of segments 22-25 with peglike bristles. Occipital carina absent above, present laterally. Front margin of pronotum smooth, lateral concave with transverse wrinkles, hind portion with oblique longitudinal wrinkles. Epomia strong.

Mesoscutum with dense punctures, hind portion with dense longitudinal wrinkles. In the front section of notaulus with short transverse wrinkles, in the hind section with oblique longitudinal wrinkles. Parapsidal furrow distinct. Scutoscutellar groove very deep, with longitudinal wrinkles. Scutellum convex, with distinct punctures. Front 2/3 of post-scutellum very deeply concave; hind 1/3 like a transverse flake, its lateral side convex. Mesopleurum with dense punctures. Speculum large. Metapleurum strongly coarse, with irregular and unclear wrinkles. Submetapleural carina complete and strong.

Wing brownish hyaline. Nervulus slightly distad of basal vein. Intercubitus very short, about 1/6 times as long as the distance between it and second recurrent vein. Postnervulus intercepted at lower 0.38. Nervellus intercepted approximately at the middle.

Legs strong. Claws very small. Fore and middle tibiae very thick, nearly columnar. Front sides of front tibiae with many small thorns. Middle coxae columnar, 3.3 times as long as its median diameter.

Propodeum weakly rough; basal area and areola with indistinct, short and transverse wrinkles; first lateral area with punctures; second lateral area with transverse wrinkles; lateral carinae of basal area parallel; areola confluent with basal area and separated from petiolar area by a distinct carina; apical area vertical. Propodeal apophysis stretching backward, reaching beyond the end of propodeum.

First tergite of abdomen straight, 3.1 times as long as its apical width, with slight rough surface, unclear transverse lines, and a weak oblique concave at lateral margin near hind 0.3; without median dorsal carina; apical 1/3 of dorsolateral carina present weakly; spiracle round, very small and convex. Tergite 2 about 1.3 times as long as its apical width, rough, with basal lateral groove, a oblique longitudinal groove from its lateral median margin forward center of hind margin. Tergite 3 about 1.2 times as long as its apical width, with unclear short transverse lines and distinct thyridium near basal margin. Last tergite long, horn-shaped. Ovipositor sheath 22.5 mm long. Ovipositor thin, apical portion depressed, apical portion of lower valve with distinct oblique ridges, basal 3 ridges very strong.

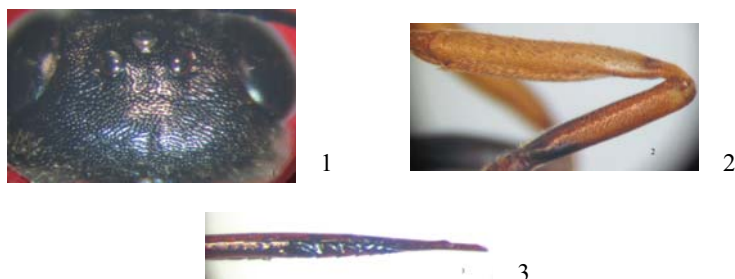
Black. Clypeus and basal portion of mandibles reddish brown. Flagellum 9-13, a small fleck on outside of basal portion of tibia and base of fore wing white. Front portion of mesoscutum slightly and unclear reddish. Ventral sides of second trochanters of front and middle legs, front femur except black base, apical portion of middle femur, all tibiae,

front and middle tarsi except segment 5, brown. Segments 1-4 of hind tarsi yellowish white. Hind margins of tergite 3-6 very narrowly white.

Holotype ♀: Yunshan, 1100 m, Wugang, Hunan Province, 4.VI.2003, Ji-Gang JIANG.

Etymology: Specific name derived from the depressed apical portion of ovipositor.

Diagnosis. This new species is similar to *X. (X.) minimus* GUPTA & CHANTRA, 1974, but can be distinguished from the latter by nervellus intercepted approximately at the middle, ovipositor sheath 1.15 times longer than body, frons with dense transverse wrinkles, face and orbits entirely black.



Figs. 1-3 *Xorides (Xorides) deplanatus* SHENG sp. nov.: 1 vertex; 2 front side of front femur and tibia; 3 apical portion of ovipositor, lateral view.

Key to species of subgenus *Xorides* known in Oriental Part of China

- 1 Clypeus with fine transverse striations. Apex of middle lobe and lateral lobes of Mesoscutum with indistinct punctures *X. (X.) asperus* WANG & GUPTA
- Clypeus without striations. Mesoscutum with distinct punctures 2
- 2 Frons with sparse and fine punctures. Occipital carina complete above. Ovipositor sheath much shorter than body. Body with profuse yellow markings *X. (X.) centromaculatus* CUSHMAN
- Frons with dense transverse wrinkles. Occipital carina broadly interrupted above medially. Ovipositor sheath distinctly longer than body. Body black *X. (X.) deplanatus* SHENG sp. nov.

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