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# The first species of *Chinecallicerus* from Sichuan, China (Coleoptera: Staphylinidae: Aleocharinae: Geostibini)

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A b s t r a c t : *Chinecallicerus pinnatus* nov.sp. (China: Sichuan: Wolong), the first representative of the genus to be recorded from outside Yunnan, is described, illustrated, and distinguished from its congeners. An updated key to the species of *Chinecallicerus* ASSING, 2004 is provided. The genus currently includes seven species, six of which are representely solely by their respective holotypes.

K e y w o r d s : Coleoptera, Staphylinidae, Aleocharinae, Geostibini, *Chinecallicerus*, China, Sichuan, taxonomy, new species, key to species.

#### Introduction

The genus *Chinecallicerus* ASSING, 2004 of the aleocharine tribe Geostibini was previously represented by six species, all of them distributed in Yunnan, China (ASSING 2004, 2006, 2009, 2015). All the species are known only from their *respective* type localities, indicating a cryptic, probably subterranean reproduction habitat. Five of the six species are represented solely by their holotypes.

During a visit to the National Museum of Natural History, Praha, a *Chinecallicerus* male from Sichuan was discovered among unidentified material of Staphylinidae recently collected in China. An examination of this specimen revealed that it represents an undescribed species, the first record of the genus from the Chinese province Sichuan.

#### Material and methods

The holotype of the newly described species is deposited in collections of the National Museum of Natural History, Prague.

The morphological studies were conducted using a Stemi SV 11 microscope (Zeiss Germany) and a Jenalab compound microscope (Carl Zeiss Jena). The images were created using a photographing device constructed by Arved Lompe (Nienburg) and CombineZ software and a digital camera (Nikon Coolpix 995).

Body length was measured from the anterior margin of the labrum to the abdominal apex, the length of the forebody from the anterior margin of the labrum to the posterior margin of the elytra, head length from the anterior margin of the clypeus (without anteclypeus) to the posterior constriction of the head, elytral length at the suture from the apex of the scutellum to the posterior margin of the elytra, and the length of the aedeagus from the apex of the ventral process to the base of the aedeagal capsule. The "parameral"

side (i.e., the side where the sperm duct enters) is referred to as the ventral, the opposite side as the dorsal aspect.

# Updated key to the species of Chinecallicerus

- 5 Antennomere IV approximately as long as wide, V-X oblong (ASSING 2006: figure 3). Elytra at suture distinctly longer than pronotum. Legs yellowish. Posterior margin of male tergite VIII produced in the middle and somewhat truncate, but not distinctly serrate (ASSING 2006: figure 8). Median lobe of aedeagus 0.53 mm long, shaped as in ASSING (2006: figures 10-11). West Yunnan (ASSING 2015: map 1)... C. laevigatus ASSING

# **Description**

#### *Chinecallicerus pinnatus* nov.sp. (Figs 1-6)

Type material: Holotype 3: "CHINA: Sichuan Prov., Wolong National Nature Res., Yinshanggou vill. env., Panda valley, 2300 m, 30°58′08″N, 103°07′34″E / 24.VI.2014, sift #24, depression with accumulated debris under rock walls, in narrow river valley above 2nd tunnel, J. Hájek & J. Růžička leg. / Holotypus 3 Chinecallicerus pinnatus sp.n., det. V. Assing 2016″ (NMP).

E t y m o l o g y: The specific epithet is an adjective derived from the Latin noun pinna (fin) and alludes to the shape of the tubercle on the male tergite VII, which somewhat resembles a shark fin.

D e s c r i p t i o n: Body length 4.6 mm; length of forebody 2.0 mm. Coloration: body blackish, with the elytra blackish-brown and the apex of the abdomen (posterior portion of segment VIII; segments IX-X) paler; legs dark-brown, except for the reddish-yellow tarsi and forelegs; antennae blackish-brown; maxillary palpi blackish-brown, with the terminal needle-shaped palpomere pale-yellowish.

Head (Fig. 1) approximately as long as broad and of subquadrate shape; punctation distinct, dense, and slightly granulose; interstices with shallow microreticulation and glossy. Eyes moderately convex, approximately as long as postocular region, but distinctly shorter than distance from posterior margin of eye to posterior constriction of head in dorsal view. Antenna (Fig. 2) approximately 2.0 mm long; antennomeres IV weakly transverse and V-X weakly oblong.

Pronotum (Fig. 1) indistinctly transverse, only 1.04 times as broad as long and 1.28 times as broad as head, broadest slightly before middle; punctation and microsculpture similar to those of head; pubescence of midline directed caudad.

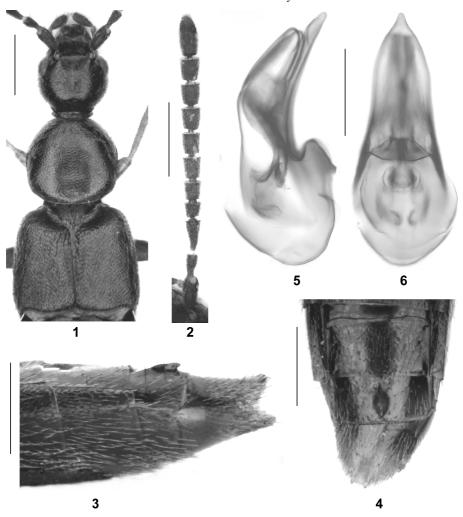
Elytra (Fig. 1) shorter than pronotum; punctation very dense and finely granulose; fine and rather dense; microreticulation very shallow. Hind wings fully developed.

Abdomen narrower than elytra; punctation moderately dense and fine on tergites III-VI, very sparse and even finer on tergite VII (Fig. 4); microsculpture very shallow on tergites III-VI, more distinct on tergite VII; tergites III and IV without sexual dimorphism; posterior margin of tergite VII with palisade fringe.

 $\delta$ : tergite VII with pronounced median tubercle in posterior half, this tubercle shaped like a shark's dorsal fin in lateral view (Fig. 3); posterior margin of tergite VIII with a median pair of acute processes (Fig. 4); sternite VIII with convex posterior margin; median lobe of aedeagus 0.6 mm long and shaped as in Figs 5-6.

# ♀: unknown.

D i s t r i b u t i o n a n d n a t u r a l h i s t o r y: The type locality is situated in the Wolong National Nature Reserve, Sichuan, at an altitude of 2300 m. The holotype was sifted from debris near rock walls in a stream valley.



**Figs 1-9**: *Chinecallicerus subater* nov.sp.: forebody (1); median portion of head (2); antenna (3); postero-median portion of pronotum (4); abdomen (5); male tergite VIII (6); male sternite VIII (7); median lobe of aedeagus in lateral view (8); median lobe of aedeagus in ventral view (9). Scale bars: 1, 3, 5: 0.5 mm; 6-9: 0.2 mm; 2, 4: 0.1 mm.

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# Zusammenfassung

Chinecallicerus pinnatus nov.sp. (China: Sichuan: Wolong), der erste Nachweis der Gattung außerhalb der chinesischen Provinz Yunnan, wird beschrieben, abgebildet und von anderen Arten der Gattung unterschieden. Eine aktualisierte Bestimmungstabelle wird erstellt. Die Gattung umfasst derzeit sieben; von sechs dieser Arten ist nur der jeweilige Holotypus bekannt.

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