

A new species of *Plateros* Bourgeois, 1879 (Coleoptera: Lycidae) from southern China, with taxonomic notes

Новый вид *Plateros* Bourgeois, 1879 (Coleoptera: Lycidae) из южного Китая с таксономическими замечаниями

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Key words: Coleoptera, Lycidae, new species, taxonomy, Palaearctic.

Ключевые слова: Coleoptera, Lycidae, новый вид, таксономия, Палеарктика.

Abstract. A new species of the genus *Plateros* Bourgeois, 1879, *P. guomenshanicus* Kazantsev **sp.n.**, is described from southern Yunnan. Three species, *P. anguliplanatus* Kazantsev, 2021, *P. nanensis* Kazantsev, 2011 and *P. tamdaoensis* Kazantsev, 2021, previously known only from Indochina, are registered in China for the first time. *Plateros dinghuensis* Fang, Yang, Yang et Liu, 2024, **syn.n.** is synonymized with *Plateros tamdaoensis* Kazantsev, 2021. The number of species of the genus in China is raised to 57. A replacement name *Plateros yangorum* **nom.n.** pro *Plateros nigripennis* Fang, Yang, Yang et Liu, 2024, from southeastern China (Guangxi), nec *Plateros nigripennis* Kazantsev, 2011, from Costa Rica, is proposed. Provided is a list of *Plateros* species of China.

Резюме. Новый вид рода *Plateros* Bourgeois, 1879, *P. guomenshanicus* Kazantsev **sp.n.**, описывается из южного Юннаня, Китай. Ещё три вида, *P. anguliplanatus* Kazantsev, 2021, *P. nanensis* Kazantsev, 2011 и *P. tamdaoensis* Kazantsev, 2021, ранее известные лишь из Индокитая, впервые указываются для Китая. *Plateros dinghuensis* Fang, Yang, Yang et Liu, 2024, **syn.n.** сводится в синоним к *Plateros tamdaoensis* Kazantsev, 2021. Число видов рода в Китае увеличивается до 57. Предлагается замещающее название *Plateros yangorum* **nom.n.** pro *Plateros nigripennis* Fang, Yang, Yang et Liu, 2024, из юго-восточного Китая (Гуанси), nec *Plateros nigripennis* Kazantsev, 2011, из Коста-Рики. Приводится полный список видов *Plateros* Китая.

Introduction

The genus *Plateros* Bourgeois, 1879 is one of the largest in the family of net-winged beetles, accounting for over 900 species and occurring in all biogeographic realms, absent only in Greater Antilles, Madagascar, New Zealand and Melanesia/Polynesia — in the Palaearctic region, however, it is registered only in its southeast, i.e., China, the Himalayan states, Japan and extreme southeast of Russia [Kleine, 1933; Kazantsev, 2011].

The fauna of *Plateros* of China had been poorly studied before the end of the twentieth century, with only 4 species of the genus reported for the country, and another six registered in the genus *Ditoneces* Waterhouse, 1879, which would be later synonymized with *Plateros*

[Kleine, 1933; Bocáková, 1997, 2001]. The use of the aedeagal structures to distinguish between taxa helped to learn more about the species diversity and now *Plateros* of China lists 54 species and one subspecies, with 43 species known from the continental part and 11 from Taiwan [Nakane, 1969, 1971; Bocáková, 1997; Kazantsev, 2001, 2005, 2011, 2017; Matsuda, 2009; Fang et al., 2024]. It is also notable that some of the species that previously had been reported only from the adjacent countries, such as *Plateros harmandi* Bourgeois, 1902 from northern India and *Plateros laocaensis* Kazantsev, 2011 from Vietnam [Kazantsev, 1991, 2021], were found in China as well [Fang et al., 2024].

The present study is a further contribution to the knowledge of *Plateros* of China. Examination of the Naturkundemuseum, Erfurt material from Xishuangbanna in southern Yunnan has led to the discovery of another undescribed *Plateros* species and some species previously known only from Indochina. Description of the new species is given below, along with the taxonomic notes that were deemed necessary and a list of all known species of *Plateros* of China.

Material and Methods

For examination the beetles were relaxed in water, then their detached abdomina were kept for several hours in 10% KOH at room temperature. The KOH treated aedeagi and terminal abdominal segments were then placed in microvials with glycerine for photographing.

MSP-1 zoom stereoscopic dissecting microscope with x8 x80 magnification range were used. Photographs were taken with Canon EOS 6D camera and Canon MP-E 65 mm lens.

The following acronyms are used in the paper: ICM — Insect Center, Moscow; NME — Naturkundemuseum, Erfurt.

Nomenclatural acts introduced in the present work are registered in ZooBank (www.zoobank.org) under urn:lsid:zoobank.org:pub:EA176FDD-E668-44E4-A3A4-B36C36C59583

Taxonomy

Lycidae Laporte, 1838

Lycinae Laporte, 1838

Platerotini Kleine, 1928

Plateros Bourgeois, 1879

Plateros Bourgeois, 1879: xix. Type species: *Eros brasiliensis* Lucas, 1857 (subsequent designation by Zaragoza, 1999).

= *Calleros* Gorham, 1881; = *Calloplateros* Pic, 1923; = *Cautiroides* Pic, 1921; = *Costatoplateros* Pic, 1949; = *Ditoneces* Waterhouse, 1879; = *Graciloplateros* Pic, 1921; = *Libnetomorphus* Pic, 1921; = *Melampyrus* Waterhouse, 1879; = *Microplateros* Pic, 1921; = *Planeteros* Gorham, 1883; = *Tolianus* Pic, 1921.

Plateros guomenshanicus Kazantsev, sp.n.

Figs 1, 4, 5.

urn:lsid:zoobank.org:act:75ABF037-B912-4BBB-8ADC-0CB-F31A2D02B

Material. China: Holotype, ♂, «China: S Yunnan (Xishuangbanna), 37 km NW Jinghong, vic. Guo Men Shan, 1080 m, 22°14'48" N, 100°36'22" E, second[ary] forest, 18.VI.2019, A. Weigel leg.» (NME).

Description. Male. Dark brown to black; pronotum, except at disk, and trochanters light brown (Fig. 1).

Vertex glabrous and slightly concave between eyes. Eyes large, interocular distance ca. 1.5 times greater than eye diameter. Labrum small, transverse, rounded anteriorly. Palps slender; ultimate palpomeres noticeably longer than wide, sub-oval, oblique and flattened at apex. Antennal sockets separated by minute lamina. Antennae attaining to elytral three fifths, strongly dentate; antennomere 3 ca. 3 times longer than antennomere 2 and ca. 1.6 times shorter than antennomere 4; antennomeres 3–11 with long sub-erect pubescence (Fig. 1).

Pronotum transverse, ca. 1.7 times wider than long, trapezoidal, bisinuate basally and strongly semi-circularly produced anteriorly, with acute, protruding posterior-laterally posterior

and obsolete anterior angles; with long sub-erect pubescence. Scutellum short, rounded distally and slightly incised medially at apex (Fig. 1).

Elytra long, ca. 4.2 times longer than wide at humeri, parallel-sided; with four slender, almost equally developed primary costae, only humeral costa noticeably stouter in proximal half; interstices with even rows of subquadrate to pentagonal cells; pubescence moderately dense, short and decumbent (Fig. 1).

Legs slender, long; femurs and tibiae relatively narrow, subequal in length; tibiae straight (Fig. 1).

Aedeagus slightly asymmetrical, with elongate phallobase; median lobe narrow, almost straight, in distal third slightly bent, bearing arrow-like appendages in distal fourth (Figs 4, 5).

Female. Unknown.

Length: 4.7 mm. Width (humeraly): 1.2 mm.

Etymology. The new species is named after the mountains where its unique type specimen was collected.

Diagnosis. *Plateros guomenshanicus* sp.n. may be separated from *P. hoi* Kazantsev, 2005, from Vietnam, which it somewhat resembles both in the habitus and the aedeagus [c.f. Kazantsev, 2021], by the more elongate, darker and infuscated at disk pronotum, with conspicuously produced anterior margin and obsolete anterior angles (vs. strongly transverse and uniformly yellow pronotum, with only slightly convex anterior margin and noticeable anterior angles in *P. hoi*), mostly rectangular or pentagonal elytral cells (vs. mostly roundish cells in *P. hoi*), as well as by the shorter and less bent in lateral view distal portion of median lobe of the aedeagus (Figs 1, 4, 5).

Distribution. Southwestern Yunnan (Xishuangbanna).

Plateros anguliplanatus Kazantsev 2021

Plateros anguliplanatus Kazantsev 2021: 51.

Material. China: 3♂♂, «China: S Yunnan (Xishuangbanna), 45 km SW Jinghong, vic. Bangzhang village, 1600–1700 m, 21°44'37" N, 100°27'02" E, light trap, 4.V.2009, A. Weigel leg.» (NME and ICM).



Figs 1–3. General view of *Plateros*, males. 1 — *P. guomenshanicus* sp.n.; 2 — *P. nanensis*; 3 — *P. tamdaoensis*. 1, 3 — holotypes. Fig. 3 after Kazantsev [2021].
Рис. 1–3. Общий вид самцов *Plateros*. 1 — *P. guomenshanicus* sp.n.; 2 — *P. nanensis*; 3 — *P. tamdaoensis*. 1, 3 — голотипы. Рис. 3 по [Kazantsev, 2021].

Distribution. Southwestern China (Yunnan: Xishuangbanna), northern Vietnam (Hoa Binh), N Thailand (Chiang Mai), Cambodia. First record for China.

Plateros nanensis Kazantsev, 2011

Figs 2, 6, 7.

Plateros nanensis Kazantsev, 2011: 174.

Material. China: 7 ♂♂, «China: S Yunnan (Xishuangbanna), 45 km SW Jinghong, vic. Bangzhang village, 1600–1700 m, 21°44'37" N, 100°27'02" E, light trap, 4.V.2009, A. Weigel leg.» (NME and ICM).

Distribution. Southwestern Yunnan (Xishuangbanna, 1600–1700 m), northern Thailand (Wiang Kosai National Park, 450 m, Bo Kluea, 700 m, Phu Kradung National Park, 1300 m). First record for China.

Plateros tamdaoensis Kazantsev 2021

Figs 3, 8, 9.

Plateros tamdaoensis Kazantsev 2021: 71;

= *Plateros dinghuensis* Fang, Yang, Yang et Liu, 2024, **syn.n.**

Material. Vietnam: Holotype, ♂, [N] «Vietnam, Vinh-Phu prov., Tam Dao, Dang Dap, secondary mountain rainforest, 11–13.V.1975, L. Medvedev leg.»; paratype, ♀, [N] «Vietnam, mountains near Tam Dao, 900 m, 9.VI.1963, O. Kabakov leg.» (ICM).

Distribution. Southeastern China (Guangdong: Dinghu Mountains), northern Vietnam (Tam Dao, 900 m). First record for China.

Presented below is a checklist of *Plateros* species registered in China, with some of the distribution data given according to the Palearctic catalogue [Bocáková, Bocák, 2007].

A checklist of *Plateros* species of China

CONTINENTAL SPECIES

Plateros alishanus Nakane, 1969: 473. Southeastern China [Bocáková, Bocák, 2007], Taiwan;

Plateros anguliplanatus Kazantsev 2021: 51. Southwestern China (Yunnan: Xishuangbanna), northern Vietnam (Hoa Binh), N Thailand (Chiang Mai), Cambodia. First record for China;

Plateros bannaensis Kazantsev, 2017: 243. Southwestern China (Yunnan: Xishuangbanna);

Plateros berezovskii (Kazantsev, 2001): 15 (*Melaneros*). Central China (Sichuan: Hodzigou);

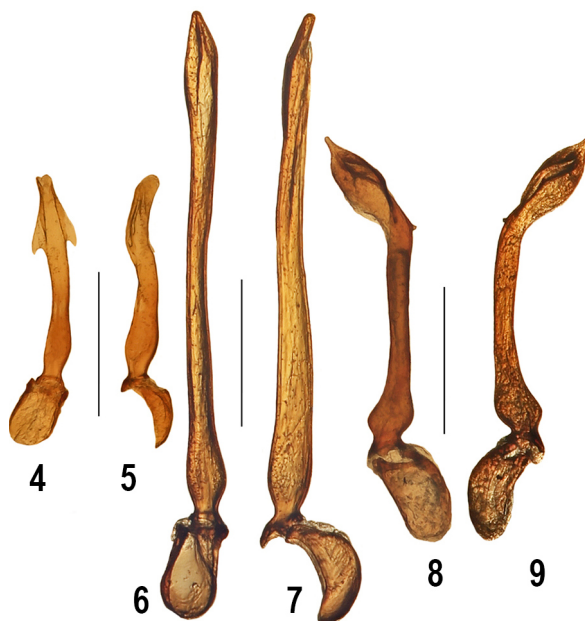
Plateros breveliniger Kazantsev, 2005: 244 (replacement name pro *Plateros brevelineatus* (Pic, 1929): 11 (*Microditoneces*), nec *Plateros brevelineatus* Pic, 1922: 73). Southeastern China [Bocáková, Bocák, 2007], Taiwan;

Plateros brevenotatus Pic, 1921: 6. Southeastern China [Bocáková, Bocák, 2007], Taiwan.

Plateros busynskyi (Bocakova, 1997): 184 (*Melaneros*). Western China (Xizang);

Plateros chinensis Waterhouse, 1879: 29. China (Guangxi, Guangdong, Hubei), Vietnam, Thailand, Cambodia; = *Plateros annamitus* Pic, 1921: Kazantsev, 2021, = *Plateros elisus* Pic, 1921: Kazantsev, 2021, = *Plateros flavomarginatus* Kleine, 1936: Bocáková, 1997, = *Plateros formosanus* Pic, 1921: Bocáková, 1997, = *Plateros formosanus* var. *nigrolineatus* Pic, 1921: Matsuda, 2009, = *Plateros sycophanta* Fairmaire, 1888: Bocáková, 1997;

Plateros coccinipennis Nakane, 1971: 142. Southeastern China [Bocáková, Bocák, 2007], Taiwan;



Figs 4–9. Aedeagi of *Plateros*, ventrally and laterally, holotype males. 4, 5 — *P. guomenshanicus* sp.n.; 6, 7 — *P. nanensis*; 8, 9 — *P. tamdaoensis*. Figs 6–9 after [Kazantsev, 2021]. Scale bars: 0.5 mm.

Рис. 4–9. Эдеагусы *Plateros*, снизу и сбоку, голотипы, самцы. 4, 5 — *P. guomenshanicus* sp.n.; 6, 7 — *P. nanensis*; 8, 9 — *P. tamdaoensis*. Рис. 6–9 по [Kazantsev, 2021]. Масштаб: 0,5 мм.

Plateros curtelineatus Pic, 1926: 31. Southwestern China (Yunnan);

Plateros dubius (Bocakova, 1997): 187 (*Melaneros*). Southwestern China (Yunnan);

Plateros flavihumeralis Fang, Yang, Yang et Liu, 2024: 143. Southeastern China (Guangdong: Dinghu Mountains);

Plateros fukienensis (Bocakova, 1997): 178 (*Melaneros*). Southeastern China (Fujian);

Plateros gracilis Fang, Yang, Yang et Liu, 2024: 146. Southeastern China (Guangxi: Yinshang);

Plateros guomenshanicus Kazantsev, **sp.n.** Southwestern China (Yunnan: Xishuangbanna);

Plateros harmandi Bourgeois, 1902: 92. Southwestern China (Yunnan), Nepal, northern India;

Plateros hubeicus Kazantsev, 2004: 239. Central China (Hubei);

Plateros incurvus (Bocakova, 1997): 178 (*Melaneros*). Southeastern China (Fujian: Wuyi Mountains);

Plateros incurvusimimus Fang, Yang, Yang et Liu, 2024: 145. Southeastern China (Guangxi: Maoershan, Guizhou);

Plateros infuscatus (Bocakova, 1997): 185 (*Melaneros*). Southwestern China (Yunnan);

Plateros jinghongensis Kazantsev, 2017: 245. Southwestern China (Yunnan);

Plateros jizushanensis (Bocakova, 1997): 188 (*Melaneros*). China (Sichuan, Yunnan);

Plateros kanoi (Nakane, 1969): 471 (*Ditoneces*). Southeastern China [Bocáková, Bocák, 2007], Taiwan;

Plateros kubani (Bocakova, 1997): 188 (*Melaneros*). Southwestern China (Yunnan);

Plateros laocaensis Kazantsev, 2011: 172. Southeastern China (Guangxi: Maoershan) [Fang et al., 2024];

Plateros leechi Nakane, 1971: 145. Southeastern China [Bocáková, Bocák, 2007], Taiwan;

Plateros moxiensis (Bocakova, 1997): 182 (*Melaneros*). Central China (Sichuan);

Plateros nanensis Kazantsev, 2011: 174. Southwestern China (Yunnan: Xishuangbanna), northern Thailand (Wiang Kosai National Park). First record for China;

Plateros nanlingensis Fang, Yang, Yang et Liu, 2024: 140. Southeastern China (Guangdong: Nanling National Nature Reserve);

Plateros pallidus (Pic, 1921): 5 (*Ditoneces*). «China»;

Plateros phoeniceus (Kazantsev, 2001): 14 (*Melaneros*). Southwestern China (Southern Sichuan: Luoishan);

Plateros planatus obconiceps (Pic, 1925): 19 (*Ditoneces*). Southeastern China [Bocáková, Bocák, 2007], Taiwan, = *Plateros purus* Kleine, 1926: Kazantsev, 2005;

Plateros planatus planatus Waterhouse, 1879: 27. China (Beijing, Hebei, Anhui, Hubei, Guangdong, Guangxi, Yunnan) [Fang et al., 2024], Vietnam, Laos, Thailand, Japan, Korea, northern India, Nepal, = *Plateros fulgens* Kleine, 1933: Bocáková, 1997, = *Ditoneces hoanus* Pic, 1926: Kazantsev, 2011, = *Ditoneces incisicollis* Pic, 1921: Bocáková, 1997, = *Plateros koreanus* Kleine, 1936: Kazantsev, Yang, 1999, = *Ditoneces pallidus* Pic, 1921: Kazantsev, 2011), = *Ditoneces sulcatithorax* Pic, 1925: Bocáková, 1997), = *Plateros tuberculatus* Pic, 1921: Bocáková, 1997;

Plateros ponderosus (Kleine, 1940): 114 (*Ditoneces*). Eastern China (Zhejiang);

Plateros propinquus (C.O. Waterhouse, 1879): 32 (*Ditoneces*). China (Hunan, Guangdong) [Fang et al., 2024];

Plateros rubens (Bocakova, 1997): 186 (*Melaneros*). Southwestern China (Yunnan);

Plateros shaanxiensis Kazantsev, 2004: 238. Central China (Shaanxi);

Plateros sichuanensis (Bocakova, 1997): 182 (*Melaneros*). Central China (Sichuan);

Plateros sordidus Fairmaire, 1889: 36. Southwestern China (Yunnan);

Plateros tamdaoensis Kazantsev 2021: 71. Southeastern China (Guangdong: Dinghu Mountains), northern Vietnam (Tam Dao, 900 m). First record for China, = *Plateros dinghuensis* Fang, Yang, Yang et Liu, 2024: 146, **syn.n.**;

Plateros tryznai (Bocakova, 1997): 186 (*Melaneros*). Central China (Sichuan: Dayi);

Plateros tsinensis Pic, 1926: 23. Southwestern China (Yunnan);

Plateros viduus Nakane, 1971: 149. Southeastern China [Bocáková, Bocák, 2007], Taiwan;

Plateros weibaoshanensis (Bocakova, 1997): 186 (*Melaneros*). Southwestern China (Yunnan);

Plateros xishuangensis Kazantsev, 2017: 250. Southwestern China (Yunnan: Xishuangbanna);

Plateros yangorum Kazantsev, **nom.n.** (replacement name pro *Plateros nigripennis* Fang, Yang, Yang et Liu, 2024: 148, nec *Plateros nigripennis* Kazantsev, 2011: 73). Southeastern China (Guangxi);

Plateros yunnanensis (Bocakova, 1997): 184 (*Melaneros*). Southwestern China (Yunnan).

TAIWAN SPECIES

Plateros breveliniger Kazantsev, 2005: 244 (replacement name pro *Plateros brevelineatus* (Pic, 1929): 11 (*Microditoneces*), nec *Plateros brevelineatus* Pic, 1922: 73). Taiwan;

Plateros kleineanus Nakane, 1971: 150. Taiwan;

Plateros laeticeps (Pic, 1921): 4 (*Ditoneces*). Taiwan;

Plateros lushanus Matsuda, 2009: 168. Taiwan;

Plateros maculatithorax (Pic, 1921): 4 (*Ditoneces*). Taiwan; = *Ditoneces griseostriatus* Kleine, 1926: 101; *Plateros piceicornis* Kazantsev, 2005: 244 (replacement name pro *Plateros apicicornis* (Pic, 1925): 19 (*Ditoneces*), nec *Plateros apicicornis* Pic, 1923: 34). Taiwan;

Plateros picianus Nakane, 1971: 146 (replacement name pro *Plateros rubripennis* (Pic, 1921): 5 (*Microditoneces*), nec *Plateros rubripennis* Pic, 1919: 21). Taiwan;

Plateros pseudochinensis Kazantsev, 2005: 239. Taiwan;

Plateros sauteri (Pic, 1925): 19 (*Ditoneces*). Taiwan, = *Plateros gressitti* Nakane, 1971: Bocák, Bocáková, 1987;

Plateros shibatai Nakane, 1961: 13. Taiwan, Japan;

Plateros takagai Matsuda, 2009: 166. Taiwan.

Acknowledgements

It is my pleasant duty to express gratitude to Dr. Matthias Hartmann (Naturkundemuseum, Erfurt) through whose courtesy I was able to study the *Plateros* material from South China under his care.

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Поступила в редакцию 19.12.2024