

FOUR NEW SPECIES OF THE GENUS BREVICORNU MARSHALL FROM CHINA (DIPTERA, MYCETOPHILIDAE)

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Abstract In the present paper, 4 new species of *Brevicornu* Marshall from China are described.

Key words Diptera, Mycetophilidae, Exechiini, *Brevicornu*, new species.

The genus *Brevicornu* Marshall is poorly known from China, and only 2 species is recorded. The present paper adds 4 new species. The type specimens are deposited in Zhejiang Forestry College, Lin an, China.

2 *Brevicornu caespitose* sp. nov. (Figs. 1-3)

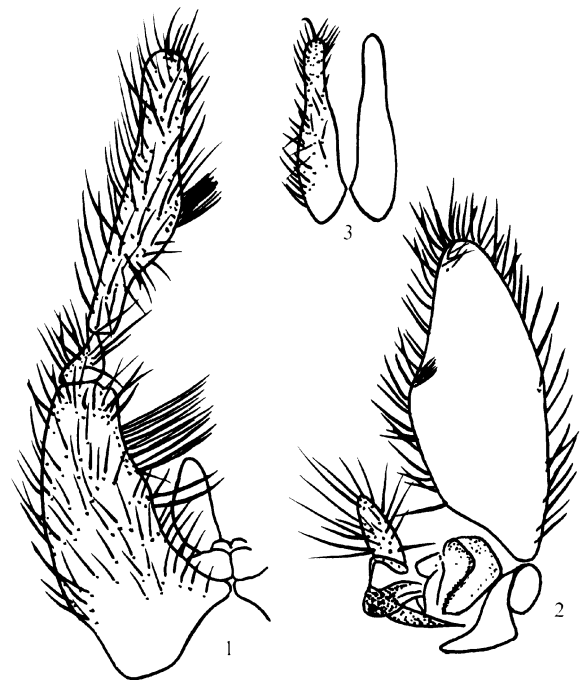
. Wing length 2.7-2.9 mm. Head blackish brown. Antennae brown, with scape and pedicel yellow; 1.6 times as long as head and thorax; flagellar segment 2.0 times as long as wide. Proepisternum brown, with 2 bristles. Mesoscutum blackish brown, with anterior margin yellow; discal bristles well developed. Mesanepisternum brown. Laterotergite dark brown. Scutellum and mediotergite blackish brown. Wing clear yellowish. Sc ending in R. Apical part of R₅ straight. Cross vein r-m 0.8 times as long as m-stalk. Base of posterior fork slightly before that of median fork. Halter yellow. Legs brownish yellow, but apical 1/5 of hind femur brown. Fore metatarsus 0.9 times as long as tibia. Middle tibia with 8 a, 8 p, 3 p-d. Hind tibia with 8 a, 12 p, 5 p-d. Abdominal tergites 1-4 brown, with sides lighter; tergites 5-6 dark brown. Sternites slightly lighter in color.

Holotype, paratype 1, Deqing County, Moganshan (30°36' N, 119°51' E), Zhejiang, 18 Apr. 1992, collected by WU Hong, Nos. 920061, 920068.

Remarks. This species is similar to *Brevicornu bipartitum* Lastovka et Matile, 1974 from Mongolia, but differs from the latter in the structure of gonocoxipites, gonostyli and cerci.

2 *Brevicornu concinnuse* sp. nov. (Figs. 4-5)

. Wing length 4.5 mm. Head dark brown.



Figs. 1-3. *Brevicornu caespitose* sp. nov. Male genitalia. 1. Ventral view. 2. Gonostylus, lateral view. 3. Cerci.

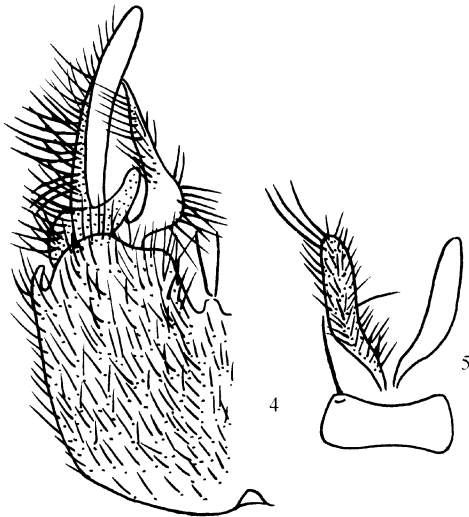
Antennae brownish yellow, with scape, pedicel and basal 1/2 of 1st flagellum yellow; subequal to combined length of head and thorax; flagellar segment 1.2 times as long as wide. Proepisternum brownish yellow, with 5 bristles. Mesoscutum dark brown, with sides yellowish brown. Mesanepisternum and laterotergite brownish yellow. Scutellum yellow brown. Mediotergite dark brown. Wing clear brownish yellow. Sc ending in R. Apical part of R₅ straight. Cross vein r-m 0.8 times as long as m-stalk. Base of posterior fork before that of median fork. Halter brownish yellow. Legs brownish yellow, but coxae brown. Fore metatar-

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sus 1.2 times as long as tibia. Middle tibia with 21 a, 9 p-v, 15 p, 5 p-d. Hind tibia with 10 a, 7 p-d. Abdominal tergites brownish yellow, with dorsal central of tergites 1, 5-6 brown. Sternites brownish yellow.

Holotype , Wudangshan (32°23' N, 110°56' E), Hubei, 1 June 1984, collected by YANG Chi-Kun, No. 880554.



Figs. 4-5. *Brevicornu concinnuse* sp. nov. Male genitalia. 4. Ventral view. 5. Tergite 9 and cerci.

Remarks. This species is similar to *Brevicornu proximum* (Staeger, 1840) from Europe, but the

structure of cerci and gonocoxites are distinctly different.

3 *Brevicornu coronanse* sp. nov. (Figs. 6-8)

. Wing length 2.2-2.4 mm. Head blackish brown. Antennae brown, with scape, pedicel and basal 1/2 of 1st flagellum yellow; 1.3 times as long as head and thorax; flagellar segment 1.2 times as long as wide. Proepisternum brown, with 3 bristles. Mesoscutum blackish brown, discal bristles well developed. Mesanepisternum and laterotergite brown. Scutellum blackish brown. Mediotergite dark brown. Wing clear yellowish. Sc ending in R. Apical part of R₅ slightly curved downward. Cross vein r-m about 0.8 times as long as m-stalk. Base of posterior fork slightly before that of median fork. Halter yellow. Legs brownish yellow. Fore metatarsus 0.9 times as long as tibia. Middle tibia with 5 a, 6 p, 5 p-d. Hind tibia with 10 a, 5 p, 6 p-d. Abdominal tergites brown. Sternites brownish.

Holotype , Foping (33°32' N, 108°00' E), Shannxi, 3 July 1996, collected by XING Lian-Xi, No. 960483. Paratype 1 , Diebu County, Lazikou, Gansu, 12 Aug. 1980, collected by YANG Chi-Kun, No. 880488.

Remarks. This species is allied to *Brevicornu griseicolle* (Staeger, 1840) from Europe, but differs from the latter in the chaetotaxy and the structure of cerci.



Figs. 6-8. *Brevicornu coronanse* sp. nov. Male genitalia. 6. Ventral view. 7. Gonostylus, lateral view. 8. Tergite 9 and cerci.

4 *Brevicornu lanceolatum* sp. nov. (Figs. 9-11)

. Wing length 2.7 mm. Head blackish brown. Antennae brown, with scape, pedicel and basal 1/2 of 1st flagellum yellow; slightly longer than head and thorax combined; flagellar segment 1.6 times as long as wide. Proepisternum brown, with 4 bristles. Mesoscutum blackish brown, with humeral angles broad and yellow; discal bristles well developed, scattered. Mesanepisternum brown. Laterotergite dark brown. Scutellum and mediotergite blackish brown. Wing clear yellow. Sc ending in R. Apical part of R₅ curved downward. Cross vein r-m 0.8-0.9 times as long as m-

stalk. Base of posterior fork below that of median fork. Halter yellow. Legs brownish yellow, but apical parts of hind femur and tibia brown. Middle tibia with 7 a, 7 p, 3 p-d. Hind tibia with 9 a, 3 p, 4 p-d. Abdominal tergites brown, with lighter markings on sides of tergites 3-4. Sternites slightly lighter.

Holotype, Qingyuan County, Baishanzu (27°45' N, 119°12' E), Zhejiang, 25 Oct. 1993, collected by WU Hong, No. 931275.

Remarks. This species is allied to *Brevicornu chinense* Zaitzev, 1988 from Sichuan, China, but the shape of gonostylus is different.



Figs. 9-11. *Brevicornu lanceolatum* sp. nov. Male genitalia. 9. Ventral view. 10. Gonostylus, lateral view. 11. Tergite 9 and cerci.

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中国短菌蚊属四新种记述 (双翅目, 菌蚊科)

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摘 要 记述中国短菌蚊属 4 新种, 模式标本保存在浙江林学院昆虫标本室。

丛毛短菌蚊, 新种 *Brevicornu caespitose* sp. nov. (图 1~3)

雄 翅长 2.7~2.9 mm。新种与分布于蒙古的 *B. bipartitum* Lastovka et Matile, 1974 相似, 但后者的生殖基节后缘无特殊构造, 尾须和生殖刺突构造也明显不同。

正模, 浙江德清莫干山, 1992-04-18, 吴鸿采; 副模 1, 同正模。

雅致短菌蚊, 新种 *Brevicornu concinnuse* sp. nov. (图 4~

5)

雄 翅长 4.5 mm。新种与广布于欧洲的 *B. proximum* (Staeger, 1840) 相近似, 但后者的尾须和生殖基节后缘的构造不同。

关键词 双翅目, 菌蚊科, 伊菌蚊族, 短菌蚊属, 新种.

中图分类号 Q969.441

正模, 湖北武当山, 1984-06-01, 杨集昆采。

冠状短菌蚊, 新种 *Brevicornu coronanse* sp. nov. (图 6~8)

雄 翅长 2.2~2.4 mm。新种与分布于欧洲的 *B. griseicolle* (Staeger, 1840) 相近似, 但后者的毛序略不同, 尾须的构造明显有差异。

正模, 陕西佛坪三官庙, 1996-07-03, 邢连喜采; 副模 1, 甘肃迭部腊子口, 1980-08-12, 杨集昆采。

狭椭圆短菌蚊, 新种 *Brevicornu lanceolatum* sp. nov. (图 9~11)

雄 翅长 2.7 mm。新种与分布于我国四川的 *B. chinense* Zaitzev, 1988 相似, 但后者的生殖刺腹突细长。

正模, 浙江庆元百山祖, 1993-10-25, 吴鸿采。