One New Record of Genus *Stenochironomus* Kieffer in China 
(Diptera, Chironomidae)

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Abstract: A new record of *Stenochironomus* Kieffer, *Stenochironomus macateei* is described and illustrated as male imagines in China for the first time. The specimen is deposited in College of Life Sciences, Nankai University.

Key words: Chironomidae; *Stenochironomus*; new record species; China

狭摇蚊属—中国新纪录种 (双翅目, 摇蚊科)

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摘要: 本文记录狭摇蚊属—中国新纪录种; 麦氏狭摇蚊 *Stenochironomus* (*Stenochironomus* *macateei* (Malloch))。标本保存于南开大学生命科学学院。

关键词: 摇蚊科；狭摇蚊属；新纪录种；中国

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The genus *Stenochironomus* was erected by Kieffer in 1919. Based on the different hosts of larvae and pupae, Borkent (1984) erected two subgenera; subgenus *Stenochironomus* s. str. Kieffer (the larvae and pupae are mining dead submerged wood) and subgenus *Petalophlebus* (the larvae and pupae are mining dead submerged leaves).

Up to date, the genus comprises 88 cosmopolitan species, 23 species in Palaeartic Region, 17 in Nearctic Region, 27 in Neotropical Region, 14 in Oriental Region, 16 in the Afrotropical Region and 4 in Australasian Region (Wang, 2000; Qi, 2007).

In this paper, we describe a new recorded species of the genus in China.

1 Materials and methods

The morphological nomenclature follows that of Sæther (1980). The material examined was mounted on slides, following the procedure outlined by Sæther (1969). All species are deposited in the College of Life Sciences, Nankai University, China (BDN).

2 Species description

*Stenochironomus* (*Stenochironomus* *macateei* (Malloch) (Figs. A-C)

*Chironomus macateei* Malloch, 1905; 45.

*Chironomus* (*Stenochironomus* *macateei* (Malloch) Johannsen, 1942; 72.

*Stenochironomus macateei* (Malloch) Townes, 1945; 89; Townes, 1952; 65; Sublette, 1964; 137.

*Stenochironomus* (*Stenochironomus* *macateei* (Malloch) Borkent, 1984; 73.


Male imago (n = 4)

Total length 3.68 – 4.68, 4.20 mm. Wing length 1.96 – 2.56, 2.00 mm. Total length / wing length 1.83 ~ 1.90, 1.85. Wing length / length of profemur 1.71 ~ 1.86, 1.80. Coloration. Whole body pale yellow.

Head. AR 1. 19 ~ 1.68, 1.24. Temporal setae 11 ~ 14, 13 including 4 ~ 5, 4 inner verticals, 4 ~ 7, 5 outer verticals and 3 ~ 6, 5 postorbitals. Clypeus with 10 ~ 33, 24 setae. Tentorium 160 ~ 200, 178 m long, 48 ~ 52, 49 m wide. Stipes 60 ~ 100, 85 m long; 24 ~ 36, 32 m wide. Palpomere lengths (in m): 40 ~ 56, 42; 60 ~ 68, 63; 176 ~ 208, 184; 104 ~ 144, 126; 184 ~ 220, 196. L: 5̅8/3̅9 0.83 ~ 1.06, 1.00.

Wing (Fig. A). Wing transparent, without any pigmentation. VR 0.97 ~ 1.14, 1.10. R with 24 ~ 34, 37 setae; R with 25 ~ 41, 28; R with 32 ~ 52, 43. Squama with 10 ~ 14, 13 setae. Thorax. Dorsocectals 13 ~ 16, 15; acrostichals 17 ~ 29, 22; prealars 7 ~ 8, 7; Scutellum with 10 ~ 13, 12 setae.

Legs. The posterior edge of front tibia with 1 scale. Spur on median tibiae 40 ~ 48, 43 μm and 32 ~ 40, 36 μm long inclu-
ding 38 ~ 40, 39 μm long comb; spur on hind tibia 32 ~ 45, 40 μm and 40 ~ 42, 41 μm long including 39 ~ 40, 40 μm long comb. Width at apex of front tibia 64 ~ 72, 66 μm, of middle tibia 64 ~ 70, 65 μm, of hind tibia 68 ~ 72, 69 μm. Lengths (in μm) and proportions of legs.

| Table Stenochironomus (Stenochironomus) macateei lengths and proportions of legs |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| \( f_e \)                      | \( f_i \)                      | \( l_{a_1} \)                  | \( l_{a_2} \)                  | \( l_{a_3} \)                  | \( l_{a_4} \)                  | \( l_{a_5} \)                  |
| 1040-1480, 1240                | 1060-1360, 1160                | 1200-1820, 1430                | 640-940, 730                  | 540-640, 570                  | 200-240, 210                  | 80-100, 90                   |
| 920-1300, 1105                 | 820-1140, 1000                 | 560-760, 620                   | 360-560, 400                  | 240-260, 250                  | 240-300, 260                  | 100-120, 110                 |
| 1080-1520, 1210                | 1020-1440, 1210                | 780-1060, 835                  | 400-620, 510                  | 300-390, 340                  |                                |                               |

\( \text{LR} \) \( \text{BV} \) \( \text{SV} \) \( \text{BR} \)
| \( l_{a_4} \)                  | \( l_{a_5} \)                  | 1.10-1.13, 1.11                | 1.77-1.79, 1.78                | 1.56-1.77, 1.64                | 2.67-2.72, 2.69                |
| 460-640, 520                   | 220-280, 250                   | 0.67-0.69, 0.68                | 2.81-3.12, 2.84                | 3.10-3.40, 3.23                | 2.50-4.75, 3.00                |
| 200-240, 210                   | 80-100, 90                     | 0.51-0.76, 0.64                | 2.64-2.78, 2.71                | 2.69-2.76, 2.71                | 3.00-4.50, 3.40                |

\( \text{distal} \ 1/2 \) HR 0.80 ~ 0.92, 0.84, HV 1.84 ~ 2.05, 1.90.

**Distribution** Oriental China (Hainan and Guangdong Provinces); Nearctic Region.

**Remarks** The species lacks pigmentation in the wing and anal point is parallel-sided. *S. macateei* is broadly distributed in the eastern Nearctic Region (Borkent, 1984). The males of the species are recorded in China for the first time and firstly recorded in Oriental Region. According to Borkent (1984), the larvae of *S. macateei* occur in the eutrophic rivers or streams.

3 **References**

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