

# 高翔蜉属一新种

(蜉蝣目: 扁蜉蝣科)

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**摘要** 本文记述采自湖南省大庸市高翔蜉属一新种。该种以其阳茎叶外侧面具有一向前弯曲的钩状突起为显著特征, 可区别于本属其他种类。

**关键词** 蜉蝣目 扁蜉蝣科 高翔蜉属 新种

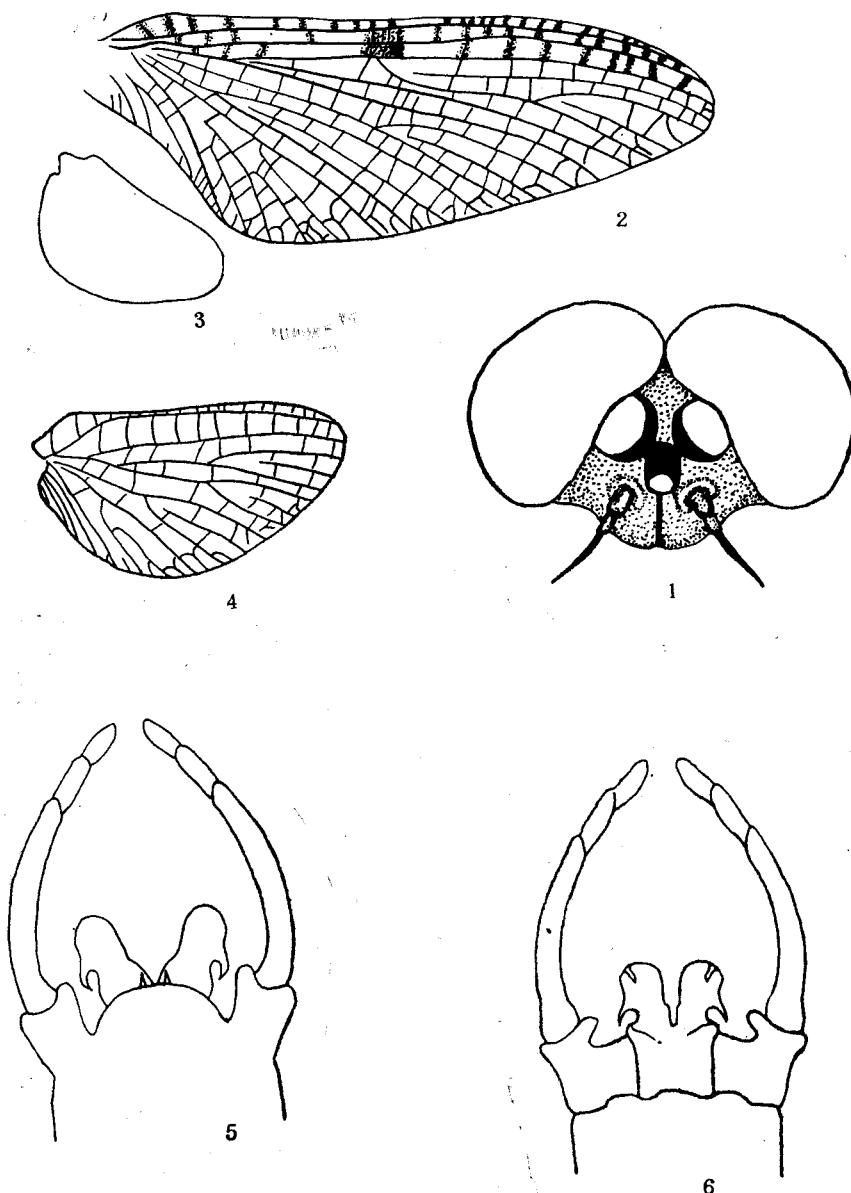
高翔蜉属 *Epeorus* 广泛分布于全世界, 包括三个亚属: 拟蜉亚属 *Iron*、高翔蜉亚属 *Epeorus* 及刺拟蜉亚属 *Ironopsis*。我国高翔蜉属已记载的有 6 种(拟蜉亚属 4 种、高翔蜉亚属 2 种)。从 1986 年 6 月在湖南省大庸市采集的蜉蝣目标本中, 发现高翔蜉属拟蜉亚属一新种, 现报道如下。

## 大庸高翔蜉, 新种 *Epeorus (Iron) dayongensis* sp. nov. (图 1—6)

雄成虫(酒精保存) 体长 14—15mm; 前翅长 14—15mm。复眼大, 灰黑色, 在头部背面相连; 头额缘向腹面适当伸展; 中单眼圆形, 侧单眼肾形, 比中单眼大且同复眼相连。头部前面观如图 I-1。中胸背板黄色, 小盾片上有 1 对黄棕色纵纹。前翅(图 I-2), 膜质透明, 但 C 脉与 Sc 脉区为乳白色, 半透明; C 脉区基部横脉特别发达, 翅痣区的横脉略为倾斜; C 脉、Sc 脉以及 R<sub>1</sub> 脉区的横脉边缘有深色色素; 纵脉和横脉均为棕色。后翅(图 I-3、4), 膜质透明, C 脉前缘突钝状; Cu 脉区有 2 根闰脉, 后翅仅为前翅长的 0.30—0.33。前足比体略长, 胫节为腿节长的 1.1—1.2 倍, 跗节长为腿节长的 1.9—2.0 倍, 是胫节长的 1.5—1.6 倍。跗节各节长度的排列顺序为 1, 2=3, 4, 5。后足, 胫节长为腿节长的 0.7—0.8 倍, 跗节长为胫节长的 0.5—0.6 倍, 是腿节长的 0.4—0.5 倍, 跗节各节长度的排列顺序为 5=1, 2, 3, 4。所有各足爪均不相似, 一钝状, 一钩状。腹部黄白色, 背板第 3—9 节有 1 对浅棕色横纹, 在中部向后成纵纹, 此外, 背板第 3—9 节还有 1 对非常发达斜向前的斑纹; 腹板第 1—9 节具有深棕色的纵纹。外生殖器, 亚生殖板在中间略为凸出, 阳茎叶(图 I-5、6)为棒状, 具阳茎突; 在外侧面上有一非常发达的钩状突起, 突起弯向前方。中尾丝退化, 尾须约为体长的 4 倍。

雄亚成虫(酒精保存)形态特征同雄成虫, 而颜色略深, 翅不透明。

正模♂成虫, 副模 2 ♂♂成虫, 1 ♂亚成虫, 湖南省大庸市(张家界金鞭溪), 1986. 19—20, 余书生、张俊采。模式标本保存于南京师范大学生物系动物学教研室。



图I 大庸高翔蜉,新种 *Epeorus (Iron) dayongensis* sp. nov.

1—6 雄成虫 ( $\sigma^{\text{imago}}$ ): 1.头部,前面观 (head, front view) 2.前翅 (fore wing) 3.后翅示与前翅的比例 (hind wing, proportional to fore wing) 4.后翅 (hind wing, magnified) 5.外生殖器,腹面观 (genitalia, ventral view) 6.外生殖器,背面观 (genitalia, dorsal view)

### 参 考 文 献

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## A NEW SPECIES OF GENUS *EPEORUS* EATON

(EPHEMEROPTERA: HEPTAGENIIDAE)

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The present treatise treats of a new species of the genus *Epeorus* Eaton, subgenus *Iron* collected in Dayong City, Hunan Province, China. With a hooky projection at lateral margin of penis as its striking feature, the said species is distinguishable from the rest of its congeners.

### ***Epeorus (Iron) dayongensis* sp. nov (figs. 1—6)**

Male imago (in alc.): Length of body and forewing: equally 14—15 mm. Compound eyes, large, greyish-black and contiguous dorsally. The margin of forehead extending moderately toward the ventral side. Median ocellus round; lateral ocelli, kidney-shaped and connected with compound eyes. (the frontal view of head as shown in Figure 1) Mesonotum yellowish; scutum with a pair of yellowish-brown median longitudinal stripes. Forewing (as shown in Figure 2): membrane transparent, the costal and subcostal areas, opalescent and translucent; basal costal area cross veins well developed; stigmatic cross veins slightly oblique; cross veins in the costal, subcostal and first radius areas, margined with dark pigmentation; longitudinal and cross veins, brown in color. Hindwing (as shown in Figures 3—4): membrane transparent; the frontal margin of costal area with obtuse projection; two intercalary veins in cubital region; length: 0.3—0.33 as long as forewings. Forelegs, slightly longer than body, foretibiae 1.1—1.2 times longer than femora, tarsi 1.9—2.0 times longer than femora and 1.5—1.6 times longer than foretibiae; descending length of tarsal segments in sequential order: 1,2=3, 4,5. Hindlegs with tibia 0.7—0.8 times longer than femora; tarsi 0.5—0.6 times longer than tibia and 0.4—0.5 longer than femora; descending length of tarsal segments in sequential order: 5=1,2,3,4. Claws of all legs dissimilar with one blunt and the other hooky. Abdomen yellowish-white; terga 3—9 with a pair of brownish transversal stripes and with longitudinal stripes starting from its median site toward the right. Besides, terga 3—9 with a pair of well-developed, forward-inclining stripes; sterna 1—9 with dark brown longitudinal stripes. Genitalia: median site of subgenital plate evenly convex; penial lobes (as shown in Figures 5—6), rod-shaped with well-developed, forward-incurving hooky projection at the outer lateral margin; terminal filament, degenerate with cerci about 4 times longer than body.

Male subimago (in alc.): Identical with male imago in morphological characteristics but darker than male imago and opaque in wings.

Holotype ♂ imago, Dayong ( $29^{\circ}18'N, 110^{\circ}26'E$ ), Hunan Province, 19. VI, 1986; paratypes 2♂♂ imagines, 1♂ subimago, locality, same as holotype, 19—20, VI, 1986. All type specimens were collected by She Shusheng and Zhang Jun and deposited in the Department of Biology, Nanjing Normal University.

**Key words** Ephemeroptera Heptageniidae *Epeorus* new species