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Dicrotendipes weiqiangensis sp. nov. (Diptera Chironomidae) from Zhejiang, China

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Abstract: *Dicrotendipes weiqiangensis* sp. nov. from Xianju National Park, Zhejiang, China is described and nominated. This new species is morphologically most similar to *D. nudus* Qi, Lin & Wang, 2012. It can be distinguished from the known species in the genus by R₄₊₅ without seta and the shape of the superior volsella, which is semi-triangular viewed dorsally and spherical viewed laterally. Diagnostic characteristics of the male imago (e.g., wing, hypopygium, anal point and superior volsella) are illustrated. A key to the males of *Dicrotendipes* in China is also provided.

Key words: Culicoidea; taxonomy; key

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					1 <i>Dicrotendipes</i>
<i>weiqiangensis</i> sp. nov.					<i>D. nudus</i> Qi, Lin & Wang, 2012
		R ₄₊₅			

IntroductiInG

Qi, Lin & Wang, 2012, *D. septemmaculatus* (Becker, 1908) and *D. tamaviridis* Sasa, 1981 (Wang 2000; Qi *et al.* 2012; Chen *et al.* 2015). In the present study, a new species in this genus is described from the Xianju National Park of Zhejiang Province based on male imagines caught by sweep-net. A key to the males of *Dicrotendipes* in China is also provided.

Material and methods

The morphological nomenclature follows Sæther (1980) and the abbreviations of part *Dicrotendipes*

Coloration. Head, thorax and abdomen brown; legs yellowish-brown.

Head. AR 1.56–1.94. Temporal setae 9–12. Clypeus with 15–18 setae. Tentorium 100–115 μm long, 23–35 μm wide. Palpomere lengths (in μm): 25–38, 38–40, 140–150, 130–150, 230–260. L: 5th/3 rd 1.64–1.73. Frontal tubercle 12–17 μm long, 6.00–8.50 μm wide.

Wing (Fig. 1). Wing transparent, without markings. VR 1.09–1.12. B 2–5 setae, R with 14–15 setae, R₁ with 2–4 setae, and R₄₊₅ without seta. Squama with 2–3 setae.

Thorax. Dorsocentrals 5–8, acrostichals 10–11, prealars 3–4. Scutellum with 3–6 setae.

Legs. Fore tibia with rounded scale lacking spur. Spurs on mid tibiae 33–38 μm and 27–28 μm long, including combs 17–22 μm and 20–22 μm long; spurs on hind tibia 40–45 μm and 35–40 μm long including combs 22–27 μm and 22–25 μm long. Width at apex of front tibia 55–63 μm , of mid tibia 60–63 μm , of hind tibia 60–70 μm . Lengths (in μm) and proportions of legs in Table 1.

Table 1. Lengths (in μm) and proportions for legs of *Dicrotendipes weiqiangensis* sp. nov.

	P ₁	P ₂	P ₃
fe	900–1000	775–825	875–950
ti	625–650	675–725	950–1000
ta ₁	1250–1300	350–400	625–675
ta ₂	550–600	200–220	300–325
ta ₃	500–525	125–150	250–275
ta ₄	400–425	70–75	125–150
ta ₅	200–325	50–75	90–100
LR	1.98–2.00	0.50–0.59	0.65–0.68
BV	0.90–0.96	2.07–2.32	1.72–1.76
SV	1.22–1.27	3.63–4.21	2.89–3.00

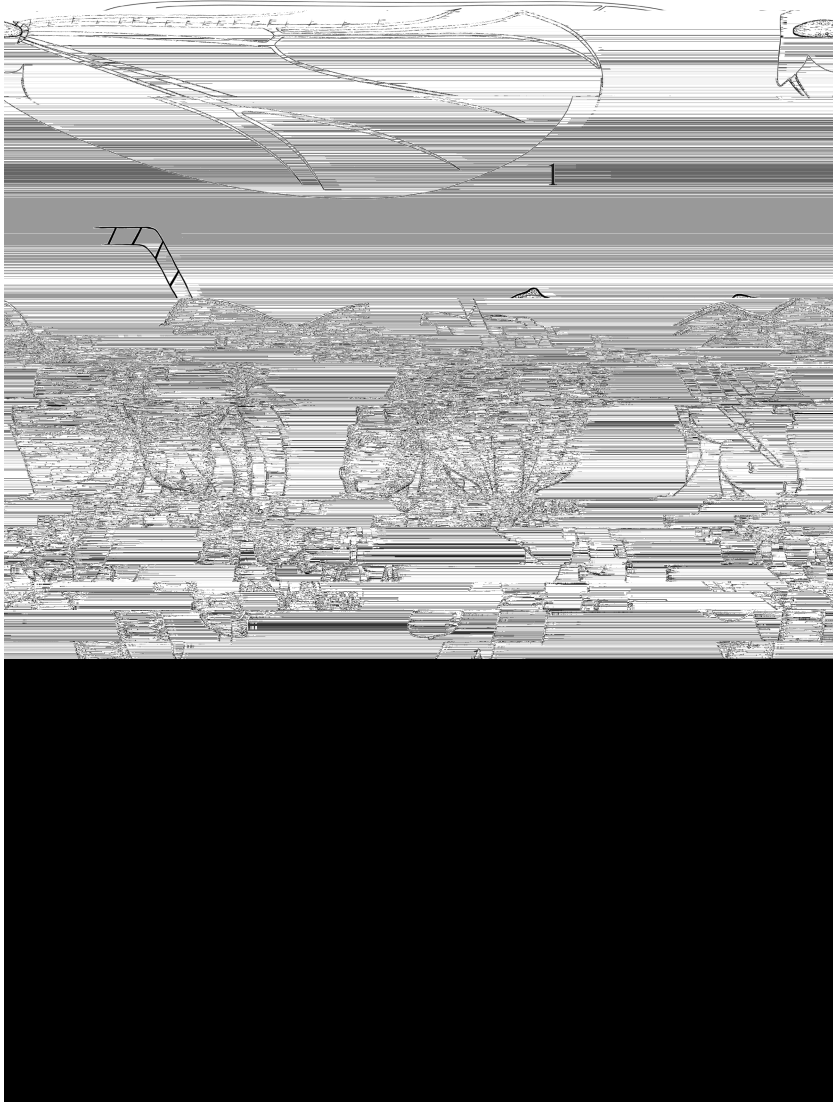
Hypopygium (Figs. 2, 3). Anal point 48–53 μm long, bare dorsally, slender, with basal peduncle and bulbous ventral extension, 5–6 dorsal basal setae and 8–10 lateral basal setae; apex of anal point swollen and rounded (Fig. 4). Laterosternite IX with 3–4 setae. Phallapodeme 80–100 μm long; transverse sternapodeme 40–60 μm long, laterally narrowed, medially broad, inverted U-shaped. Gonocoxite 122–165 μm long. Superior volsella 75–85 μm long, 45–53 μm wide; semi-triangular viewed dorsally (Fig. 5), spherical viewed laterally (Fig. 6); with numerous micro setae and 6–8 short apical setae. Inferior volsella 138–175 μm long; with tip of club moderately expanded, apex shallowly bifid, with 2 dorsal rows of 4–5 setae and 1 large ventral apical seta. Gonostylus 138–200 μm long; slightly curved medially, with 7–8 apical setae along inner margin. HR 0.81–0.89, HV 1.66–2.67.

Holotype. ♀, **China**, Zhejiang Province, Taizhou City, Xianju County, Xianju National Park, Weiqiang Mountain, 25-VIII-2015, sweeping net, Xin QI. **Paratypes.** 4 ♀, same as holotype.

Etymology. The species epithet is named after the type locality, using the Latin suffix *-ensis*, denoting place of origin.

Remarks. The shape of the superior volsella of *D. weiqiangensis* sp. nov. is characteristic of the genus. This new species closely resembles *D. nudus* Qi, Lin & Wang in R₄₊₅ without

seta and the structure of hypopygium, but the superior volsella of *D. weiqiangensis* sp. nov. is semi-triangular viewed dorsally and spherical viewed laterally, whereas that of *D. nudus* Qi, Lin & Wang is digitiform, with a short ventral extension.



Figures 1–6. *Dicrotendipes weiqiangensis* sp. nov. . 1. Wing; 2. Hypopygium, dorsal view; 3. Hypopygium, lateral view; 4. Anal point, lateral view; 5. Superior volsella, dorsal view; 6. Superior volsella, lateral view.

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