

Hydrobaenus tiunovi sp.n. (Diptera, Chironomidae, Orthoclaadiinae)
from Sokhondinsky State Biosphere Reserve
(Zabaikal'sky Territory, Russia)

Новый вид хирономид *Hydrobaenus tiunovi* sp.n.
(Diptera, Chironomidae, Orthoclaadiinae)
из Сохондинского природного биосферного заповедника
(Забайкальский край, Россия)

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Ключевые слова: Diptera, Chironomidae, Orthoclaadiinae, *Hydrobaenus*, новый вид, Сохондинский заповедник, Забайкальский край, Россия.

Abstract. A new species, *Hydrobaenus tiunovi* Makarchenko et Makarchenko, **sp.n.**, is described from Sokhondinsky State Biosphere Reserve (Zabaikal'sky Territory, Russia) by male imago. A new species is close related to *H. laticaudus* Sæther, 1976 but can be good separated from late by features of hypopygium, namely by roundish tergite IX, virga consists of 2 setae, transverse sternapodeme almost straight and narrow in middle part, gonostylus with megaseta and 2 long setae which are situated nearest and the same size or little longer of megaseta.

Резюме. Приведено иллюстрированное описание имаго самца нового вида хирономид *Hydrobaenus tiunovi* Makarchenko et Makarchenko, **sp.n.**, из Сохондинского природного биосферного заповедника (Забайкальский край, Россия). Новый вид наиболее близок *H. laticaudus* Sæther, 1976, от которого отличается округлым свободным краем тергита IX, виргой, состоящей из двух щетинок, почти прямой и узкой поперечной стернаподемой, наличием около терминального шипа с обеих сторон двух сильных щетинок, которые немного длиннее терминального шипа или такого же размера.

Species of the genus *Hydrobaenus* Fries, 1830 are wide distributed in Holarctic Region. Up to the present time the genus includes in Palaearctic 27 species [Sæther, 1976; Sæther et al., 2000; Makarchenko et al., 2009] and 15 species are recorded for Nearctic [Oliver et al., 1990; Cranston et al., 2007].

Based on material collected in Sokhondinsky Nature Reserve of Zabaikal'sky Territory, a new species *Hydrobaenus tiunovi* sp.n. is described below by male imago.

Material was fixed by 70 % ethanol. The morphological nomenclature follows Sæther [1980].

Holotype of a new species is deposited in the Institute of Biology and Soil Sciences, Far East Branch of the Russian Academy of Sciences (IBSS FEB RAS), Vladivostok, Russia.

Hydrobaenus tiunovi
Makarchenko et Makarchenko, **sp.n.**

Fig. 1.

Material. Holotype: ♂, Bukukunskoe Lake, Sokhondinsky Nature Reserve, Kyra district, Zabaikal'sky Territory, alt. about 2300 m above sea level, 20.VI.2010, leg. M. Tiunov.

Etymology. A new species is named in honor of Dr. M.P. Tiunov who collected for the first time imagines of chironomids in Sokhondinsky Nature Reserve.

Male imago (n=1). Total length 3.3 mm. Total length/wing length 1.53. Coloration dark brown.

Head. Eyes pubescent, with dorsomedian elongation. Inner verticals 3, outer verticals 1, postorbitals 3. Clypeus with 10 setae. Palpomere length (µm): 32, 60, 100, 84, 128; 3rd palpomere without sensitive hairs. Head width/palpal length 1.31. Antenna with 13 flagellomeres and good developed plume, AR 1.27.

Thorax. Antepronotum with 7 lateral setae. Acrostichals 2 (in middle part of methothorax), dorsocentrals 4–5, prealars 2–3. Scutellum with 11 setae.

Wings. Length 2.16 mm. Anal lobe right-angled-roundish. Squama with 14 setae. R with 9 setae, R₁ and R₄₊₅ without setae. Costal extension 52 µm. Apex of R₄₊₅ is distal of apex M₃₊₄. Cu₂ curved in 1/3 of apical part.

Legs. BR₁ 1.5; BR₂ 1.8; BR₃ 2.1. Spur of front tibia 48 µm. Both spurs of middle tibia 28 µm long. Spurs of hind tibia 20 µm and 64 µm long. Hind tibial comb with 9 spines. Middle and hind ta₁ and ta₂ with 2 pseudospurs. Pulvillae small. Length and proportions of legs as in Table 1.

Table 1. Length (μm) and proportions of leg segments of *Hydrobaenus tiunovi* sp.n., male (n=1)
Таблица 1. Длина члеников ног (мкм) и их индексы самца *Hydrobaenus tiunovi* sp.n. (n=1)

P	f	t	ta ₁	ta ₂	ta ₃	ta ₄	ta ₅	LR	SV	BV
P ₁	800	940	576	352	256	176	144	0.61	3.02	2.49
P ₂	780	880	384	224	168	128	128	0.44	4.32	3.15
P ₃	880	1000	496	272	208	128	136	0.50	3.79	3.19

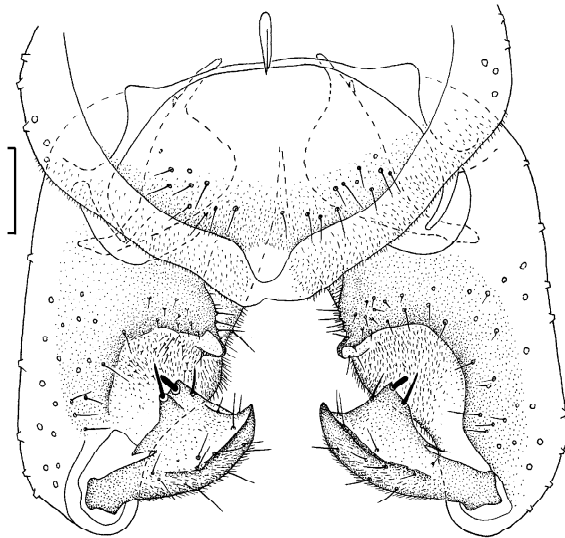


Fig. 1. Male hypopygium of *Hydrobaenus tiunovi* sp.n., from above.

Рис. 1. Гипопигий самца *Hydrobaenus tiunovi* sp.n., вид сверху.

Нипопигий (Fig. 1). Anal point bare, 20 μm long and 28 μm wide. Tergite IX with 23 setae; laterosternite IX with 8–9 setae. Transverse sternapodeme almost straight, 172 μm long; oral projections triangular-roundish. Virga consists of 2 setae, 24–28 μm long. Gonostylus 116 μm long; basal lobe of gonostylus with megaseta 12 μm long and with 2 setae which situated nearest of megaseta, 12–16 μm long. Gonocoxite 272 μm long; inferior volsella as in Fig. 1.

Diagnosis. A new species is close related to *H. laticaudus* Sæther, 1976 but can be good separated by shape of gonostylus and tergite IX, transverse sternapodeme, structure of virga and superior volsellae and some other features which adduced in Table 2.

Диагноз. Новый вид наиболее близок виду *H. laticaudus* Sæther, 1976, от которого хорошо отличается строением гипопигия, в частности формой и строением тергита IX, гоностилия, поперечной стернаподемы, вирги, а также другими признаками, приведёнными в табл. 2.

Female, pupa and larva are unknown.

Distribution. *Hydrobaenus tiunovi* sp.n. is known only from type locality in Sokhondinsky Nature Reserve of Zabaikal'sky Territory, Russia.

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Table 2. Some distinctive features of *Hydrobaenus laticaudus* and *H. tiunovi* sp.n., male imago
Таблица 2. Отличительные признаки имаго самцов *Hydrobaenus laticaudus* и *H. tiunovi* sp.n.

Features	<i>H. laticaudus</i> (n=3) [Makarchenko et al., 2009]	<i>H. tiunovi</i> sp.n. (n=1)
Total length, mm	4.3-4.4	3.3
Wing length, mm	2.7-2.8	2.16
Acrostichals	4-6	2
Dorsocentrals	15-17	4-5
LR1	0.73-0.74	0.61
SV1	2.49-2.53	3.02
BV1	2.39-2.41	2.49
Transverse sternapodeme	Slightly prominent and wide in middle part	Almost straight and narrow in middle part
Tergite IX	Narrowly triangular	Roundish
Gonostylus	Length 138-143 μm ; nearest of megaseta some setae of middle length are situated	Length 116 μm ; nearest of megaseta 2 strong and long setae are situated
Virga	Consists of 4 setae, 18-23 μm long	Consists of 2 setae, 24-28 μm long

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