Евразиатский энтомол. журнал 6(4): 387–388

New records of mayflies and stoneflies (Ephemeroptera, Plecoptera) in South-West Siberia

Новые находки подёнок и веснянок (Ephemeroptera, Plecoptera) в Юго-Западной Сибири

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Key words: Ephemeroptera, Plecoptera, South-West Siberia.
Ключевые слова: Ephemeroptera, Plecoptera, Юго-Западная Сибирь.

Abstract. First records of 5 mayfly and 3 stonefly species in Southwest Siberia (Novosibirskaya Oblast' and Altaiskii Krai) are given. New localities of mayflies *Baetis pseudothermicus* and *Baetis tuberculatus*, stoneflies *Nemoura papilla* and *Taenionema japonicum* are recorded as westernmost. New locality of stonefly *Leuctra digitata* is established as easternmost.

Резюме. Представлены первые находки пяти видов подёнок и трёх видов веснянок для Юго-Западной Сибири (Новосибирская область и Алтайский край). Находки подёнок *Baetis pseudothermicus* и *Baetis tuberculatus*, веснянок *Nemoura papilla* и *Taenionema japonicum* являются самыми западными. Находка веснянки *Leuctra digitata* является самой восточной.

Fauna of mayflies and stoneflies of Western Siberia was actively investigated during the last years [Beketov, Kluge, 2003; Beketov, 2004a–b]. It was shown that territory of Novosibirsk Oblast', which is situated on the southeastern corner of West Siberian Plain is a borderland for many eastpalaearctic and westpalaearctic species. In this region many westernmost and easternmost records were made for the eastpalaearctic and westpalaearctic species respectively. In the present paper eight new zoogeographical records of mayflies and stoneflies from Novosibirsk Oblast' and Altaiskii Krai are presented. Four of the eight localities are reported as the most western findings of eastpalaearctic species, and one locality — as the most eastern of westpalaearctic species.

Taxonomic classifications for mayflies and stoneflies are used according to Kluge [1997] and Zhiltsova [2003] respectively.

The localities and dates: NOVOSIBIRSKAYA OBLAST': *TOGUCHINSKII RAION:* **1** — Bolshaya Pustynka Rivulet, left tributary of Inya River, vicinities of Krinitsa railway station, 55°04'43.8" N and 83°32'47.1" E, 30.05.2004; **2** — Bugotak River, left tributary of Inya River, near Bugotak Village, 55°08'01.3" N and 83°47'06.0" E, 12.05.2004; *NOVOSIBIRSKII RAION:* **3** — Mosikha Rivulet, left tributary of Inya River, vicinities of 38th Kilometer railway station, 54°58'20.6" N and 83°14'31.1" E, 10.05.2004; **4** — Zyryanka Rivulet, right tributary of Obskoe Water Reservoir, Novosibirsk, 54°49'36" N and 83°06'19" E, 02.10.2007. ALTAISKII KRAI: **5** — Ob' River, vicinities of Barnaul City, 53°19'19" N and 83°47'52" E, 10.08.2005.

EPHEMEROPTERA

Baetis (s.str.) *pseudothermicus* Kluge, 1983

Material. About 100 larvae: **1.**
Notes. Eastpalaearctic species. The present locality is westernmost. Previously known from Altai Mountains, East Siberia, and Russian Far East [Kluge, 1997].

Baetis (*Baetiella*) *tuberculatus* (Kazlauskas, 1963)

= *Baetis nosagawaensis* Gose, 1965

Material. A larva: **2**.
Notes. Eastpalaearctic species. The present locality is westernmost. Previously known from Altai Mountains, East Siberia, Russian Far East, and Japan [Kluge, 1997].

Ephemerella (s.str.) *aurivillii* Bengtsson, 1908

= *Ephemerella taeniata* Tschernova, 1952

Material. 2 larvae: **1.**
Notes. The species with Holarctic range [Kluge, 1997].

Leptophlebia (s.str.) *marginata* Linnaeus, 1768

Material. 2 larvae: **3.**
Notes. Westpalaearctic species [Kluge, 1997].

Oligoneuriella pallida (Hagen, 1855)

= *Oligoneuriella mikulskii* Sowa, 1961

Material. 1 larva: **5.**
Notes. Transpalaearctic species [Kluge, 1997].

PLECOPTERA

Nemoura papilla Okamoto, 1922

= *Nemoura levanidovae* Zwick, 1973

Material. Imagoes, 2♂♂, 1♀: **3.**
Notes. Eastpalaearctic species. The present locality is westernmost. Previously known from the south of Russian Far East, Sakhalin Island, and Japan [Levanidova, 1982; Zhiltzova, 2003].

Taenionema japonicum (Okamoto, 1922)

Material. Imagoes, 1♂, 3♀♀: **1.**

Notes. Eastpalaearctic species. The present locality is westernmost. Previously known from the south of Altai Mountains, East Siberia, Russian Far East, Mongolia, and Japan [Levanidova, 1982; Zhiltzova, 2003].

Leuctra digitata Kempny, 1899

Material. Imagoes, 1♂, 2♀♀: **4.**

Notes. Westpalaearctic species. The present locality is easternmost. Previously known from middle, north, and east Europe [Zhiltzova, 2003].

Acknowledgements

Author is grateful to V.Yu. Kryukov for the kind help in collecting of the material. The study was supported by RFBR grant 04-04-48778(a).

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