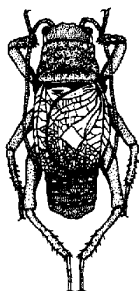


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NEW RECORDS OF CADDISFLIES (TRICHOPTERA) FROM THE RUSSIAN FAR EAST

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Twenty seven species of caddisflies belonging to 13 families are reviewed; among them 6 species are recorded for the first time from Russia: *Dolophilodes hapirensis* Bots., *Wormaldia coreana* Kuman., *Ecnomus tsudai* Kuman., *Ecnomus* sp.1, *Psychomyiella myohyangsanica* Kuman. and *Limnephilus externus* Hag. Besides that, 5 species are listed as new for Amurskaia oblast, 2 species are new for southern part of Khabarovskii krai and 5 ones are new for Primorskii krai. *Setodes obscurus* Schmid et Levanidova is the first record in the Russian Far East. Additional information about distribution of the rare species and some misidentification data are given.

KEY WORDS: Trichoptera, fauna, Russian Far East.

Т.С.Вшивкова. Новые находки ручейников (Trichoptera) на Дальнем Востоке России. // Дальневосточный энтомолог. 1995. N 15. С. 1-8.

Приводится аннотированный список 27 видов ручейников из 13 семейств, из них 6 видов: *Dolophilodes hapirensis* Bots., *Wormaldia coreana* Kuman., *Ecnomus tsudai* Kuman., *Ecnomus* sp.1, *Psychomyiella myohyangsanica* Kuman. и *Limnephilus externus* Hag. впервые обнаружены на территории России. Для Амурской области впервые

указываются 5 видов, для южной части Хабаровского края - 2 вида и для Приморского края - 5 видов. *Setodes obscurus* Schmid et Levanidova впервые обнаружен на Дальнем Востоке. Приводится дополнительная информация по распространению ряда редких видов ручейников, а также разъяснения по поводу некоторых ошибочных определений.

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INTRODUCTION

Study of the collection material of caddisflies from different parts of the Russian Far East shown several interesting and unrecorded species. A total 688 adults and 1 pupa of caddisflies were examined. Material is deposited in the Institute of Biology and Pedology of Far Eastern Branch of Russian Academy of Sciences, Laboratory of Hydrobiology (Vladivostok, Russia).

FAMILY RHYACOPHILIDAE

Rhyacophila egijnica Schmid, 1968

MATERIAL. Amurskaia oblast: 1 male, Lake Chikun 65 km NW from Ust-Nuykzha, 12.VII 1990 (leg. A.Bulavskiy).

DISTRIBUTION. Russia: Siberia (Lake Baikal basin); Far East [Magadanskaia oblast, Amurskaia oblast (first record), Khabarovskii krai]. Mongolia.

FAMILY GLOSSOSOMATIDAE

Padunia forcipata Martynov, 1934

MATERIAL. Khabarovskii krai: 1 male, Chegdomyn River, 29.VII 1993 (leg. E.Makarchenko).

DISTRIBUTION. Russia: Magadanskaia oblast (Chukotka), south part of Khabarovskii krai (first record), Amurskaia oblast, Primorskii krai. Korea. Japan (Hokkaido).

FAMILY PHILOPOTAMIDAE

Dolophilodes hapirensis Botosaneanu, 1970

MATERIAL. Primorskii krai: 5 males, 2 females, Lukyanovka, 7.VIII 93, light trap (leg. S.Kholin); 13 males, 3 females, Ryazanovka, 16.VIII 93, light trap (leg. S.Kholin).

DISTRIBUTION. Russia (new record): south part of Primorskii krai. Korea.

***Wormaldia coreana* Kumansky, 1992**

MATERIAL. Primorskii krai: 10 males, 6 females, Lazo Reserve, Perekatnaya River basin, 9.VII 1978 (leg. T.Vshivkova).

DISTRIBUTION. Russia (new record): south part of Primorskii krai. Korea.

FAMILY STENOPSYCHIDAE

***Stenopsyche variabilis* Kumansky, 1992**

Stenopsyche uncinata: Vshivkova & Tanida, 1995: 54-55; Vshivkova et al., 1995: 63 (nec. Navas, 1930)

MATERIAL. Khabarovskii krai: 2 males, Birushka River, 24.VIII 1950 (leg. I. Levanidova); Stream near 158 km of Vladivostok-Khabarovsk road, 4.VIII 1959 (leg. I. Levanidova).

DISTRIBUTION. Russia: south part of Khabarovskii krai (first record); south part of Primorskii krai (middle part of Ussuri River; Razdolnaya River near Poltavka Village). Korea.

FAMILY HYDROPSYCHIDAE

***Cheumatopsyche amurensis* Martynov, 1934**

MATERIAL. Primorskii krai: 12 males, south-west shore of Khanka Lake, Kamen-Rybolov, 7.VIII 1994, light trap (leg. Jh. Morse, T.Vshivkova, S.Kocharina).

DISTRIBUTION. Russia: south part of Khabarovskii krai, south part of Primorskii krai (first record).

***Hydropsyche lianchiensis* Li et Tian, 1990**

MATERIAL. Primorskii krai: 1 male, Lukyanovka, 7.VIII 1993, light trap (leg. S.Kholin).

DISTRIBUTION. Russia: south part of Primorskii krai. China.

REMARKS. In Russia this species was known only from Ussuri Reserve (Mey, 1991). Now it is listed from the second locality.

FAMILY POLYCENTROPODIDAE

***Cyrnus nipponicus* Tsuda, 1942**

MATERIAL. Primorskii krai: 4 males, Khasan District, Lake Doritzeni, 23-24.VII 1975 (leg. T.Vshivkova).

DISTRIBUTION. Russia: south part of Primorskii krai. Japan (Honshu).

REMARKS. Until now this species was known in Russia from the only locality: Primorskii krai, Primorskyii Village (Tanida, 1993). Now it is listed from the second locality.

***Hyalopsyche amurensis* Martynov, 1934**

MATERIAL. Primorskii krai: 49 males, 52 females, south-west shore of Khanka Lake, Kamen-Rybolov, 7.VIII 1994, light trap (leg. Jh. Morse, T.Vshivkova, S.Kocharina).

DISTRIBUTION. Russia: south part of Khabarovskii krai, south part of Primorskii krai (first record).

FAMILY ECNOMIDAE

***Ecnomus tsudai* Kumansky, 1992**

Ecnomus sp. "S": Vshivkova et al., 1995: 64,65.

MATERIAL. Primorskii krai: 1 male, 1 female, Razdolnaya River near Poltavka, 24.VI 1992 (leg. T.Vshivkova).

DISTRIBUTION. Russia (first record): south part of Primorskii krai.

***Ecnomus* sp.1**

MATERIAL. Primorskii krai: 2 males, south-west shore of Khanka Lake, Kamen-Rybolov, 7.VIII 1994, light trap (leg. Jh.Morse, T.Vshivkova, S.Kocharina).

DISTRIBUTION. Russia (first record): south part of Primorskii krai.

REMARKS. This species is similar to *Ecnomus tenellus* Rambur but there are some differences in genitalic character. *Ecnomus* sp.1 was collected with *E. tenellus*, the second was very abundant.

FAMILY PSYCHOMYIIDAE

***Lype* sp.1**

Lype diversa: Vshivkova, 1988: 80; 1991: 43,50 (nec. Banks, 1914).

MATERIAL. Primorskii krai: 1 male, Ussuri Reserve, Komarovka River, 21.VIII 1969 (leg. E.Kandybina); 3 males, 1 pupa, the same locality, 17-27.VIII 1984 (leg. T.Vshivkova); 9 males, 3 females, Nakhodka District, stream near biostation "Vostok" (Institute of Marine Biology FEB RAS), 25-30.VIII 1989 (leg. T.Vshivkova); 1 female, Lukyanovka, Pryamoi Stream, 20.VIII 1994 (leg. S.Kholin).

DISTRIBUTION. Russia (first record): south part of Primorskii krai.

REMARKS. Genus *Lype* McL. for the first time is recorded for continental Asian part of Russia. *Lype* sp.1 differ from other Asian species *Lype excisa* Mey distributed on Sakhalin Island and Japan (Hokkaido).

***Psychomyiella myohyangsanica* Kumansky, 1992**

MATERIAL. Primorskii krai: 30 males, 20 females, Razdolnaya River near Poltavka, 6.VIII 1995, light trap (leg. Jh.Morse, T.Vshivkova, Kocharina S.).

DISTRIBUTION. Russia (first record): south part of Primorskii krai. Korea.
REMARKS. Genus *Psychomyiella* Ulmer for the first time is recorded for Russia.

FAMILY PHRYGANEIDAE

Hagenella sibirica (Martynov, 1909)

Hagenella clathrata: Vshivkova, 1991: 43 (nec. Kolenati, 1848).

MATERIAL. Primorskii krai: 1 male, Ussuri Reserve, Komarovka River, 22.VI 1979, light trap (leg.L.Sasova).

DISTRIBUTION. Russia: south part of Khabarovskii krai, Amurskaia oblast, Primorskii krai, Sakhalin, Kurile Islands (Paramushir).

REMARKS. The former data of distribution of *H. clathrata* on Russian Far East are need in revisional study.

FAMILY BRACHYCENTRIDAE

Micrasema gelidum MacLachlan, 1876

MATERIAL. Amurskaia oblast: 2 males, Obluchiye, 25.VIII 1976 (leg. V.Zherikhin, N.Sinitchenkova).

DISTRIBUTION. Russia: Magadanskaia oblast (Chukotka), north part of Khabarovskii krai, Amurskaia oblast (first record), Mongolia.

FAMILY LIMNEPHILIDAE

Anabolia semenovi (Martynov, 1935)

MATERIAL. Amurskaia oblast: 1 male, Obluchiye, 25.VIII 1976 (leg. V.Zherikhin, N.Sinitchenkova).

DISTRIBUTION. Russia: Amurskaia oblast (first record), Primorskii krai.

Asynarchus iteratus MacLachlan, 1880

MATERIAL. Primorskii krai: 3 males, Armu River basin, Bolshoy Pikhtovyi Stream 36 km NE from Dersu, 13-16.IX 1991, light trap (leg. Yu.Tschistyakov); 2 males, the same locality, 15.IX 1991, light trap (leg. Yu.Tschistyakov); 1 male, Armu River not far from Malye Sibichi, 4.X 1991, light trap (leg. Yu.Tschistyakov). Khabarovskii krai: 2 male, Okhotsk town vicinity, 27.VIII 1985 (leg. V.Zherikhin).

DISTRIBUTION. Russia: Siberia, Far East [Magadanskaia oblast, Kamchatka, Khabarovskii krai, Primorskii krai (first record)]. Alaska. Yukon.

Chilostigma sieboldi MacLachlan, 1876

MATERIAL. Primorskii krai: 1 female, Vladivostok, 20.X 1990, light trap

(leg. K.Vshivkov).

DISTRIBUTION. Russia: European part, Siberia (Baikal Lake vicinities), Far East [Amurskaia oblast, Primorskii krai (first record)]. Northern Europe.

***Halesus sachalinensis* Martynov, 1914**

MATERIAL. Primorskii krai: 8 males, 4 females, Bolshayia Ussurka River basin, Zimoveinyi Stream, 15-24.IX 1968 (leg. E.Sinchilina); 2 males, Bolshoy Pikhtovyi Stream, 13.IX 1991, light trap (leg. Yu.Tchistyakov); 2 males, Armu River, 16.IX 1991, light trap (leg. Yu.Tchistyakov).

DISTRIBUTION. Russia: Primorskii krai (first record), Sakhalin, Kurile Islands (Kunashir, Iturup). Japan (Hokkaido).

REMARKS. Genus *Halesus* Steph. for the first time is listed for continental part of the Russian Far East.

***Lenarchus productus* (Morton, 1896)**

MATERIAL. Primorskii krai: 1 male, Bolshoy Pikhtovyi Stream, 15.IX 1991, light trap (leg. Yu.Tchistyakov); 3 males, Armu River, 16.IX 1991, light trap (leg. Yu.Tchistyakov).

DISTRIBUTION. Russia: eastern part of Siberia, Far East (Magadanskaia oblast, north part of Khabarovskii krai, Primorskii krai, Sakhalin). Northern Europe.

REMARKS. This species has been recorded from Primorskii krai (Vshivkova, Tanida, 1995). Now it is listed from the new localities.

***Limnephilus correptus* MacLachlan, 1880**

MATERIAL. Amurskaia oblast: 1 female, Blagoveschensk, 11.VIII 1988 (leg. T.Arefina).

DISTRIBUTION. Russia: south part of Khabarovskii krai, Amurskaia oblast (first record), Primorskii krai, Sakhalin. Japan.

***Limnephilus externus* Hagen, 1861**

MATERIAL. Kamchatskaya oblast: 1 male, Kamenskoye, 19.VIII 1958 (leg. unknown).

DISTRIBUTION. Russia (new record): Koryak AR of Kamchatskaya oblast. Europe. North America (Alaska. Yukon).

FAMILY GOERIDAE

***Goera squamifera* Martynov, 1909**

Goera japonica: Vshivkova, 1991: 43 (nec. Banks, 1906).

MATERIAL. Primorskii krai: 1 male, Ussuri Reserve, Komarovka River, 22.VIII 1969 (leg. E.Kandybina); 1 male, the same locality, 27.VIII 1983 (leg.

T.Vshivkova); 1 male, the same locality, 6.IX 1965 (leg.D.Kononov).

DISTRIBUTION. Russia: south of Khabarovskii krai, Primorskii krai.

FAMILY LEPTOCERIDAE

Ceraclea excisa (Morton, 1904)

MATERIAL. Amurskaia oblast: 1 male, Obluchyic, 28.VIII 1976 (leg. V.Zherikhin).

DISTRIBUTION. Russia: European part, Siberia (Baikal Lake basin, Yakutia), Far East [Amurskaia oblast (first record), Primorskii krai]. China. Northern Palearctic and northwestern Nearctic.

Ceraclea globosa Yang et Morse, 1988

MATERIAL. Primorskii krai: 1 male, Olga District, 12 km W from Vesolyi Jar, 18.VIII 1992, light trap (leg. Yu.Tchistyakov); 4 males, 5 female, Ussuri River basin, Pravaya Sokolovka Stream, 14-29.VII 1976 (leg. T.Vshivkova).

DISTRIBUTION. Russia: south part of Khabarovskii krai, Primorskii krai (first record). Northern China.

Ceraclea shuotsuensis (Tsuda, 1942)

MATERIAL. Primorskii krai: 1 male, Lukyanovka, 7.VIII 1993, light trap (leg. S.Kholin); 4 males, 2 females, Tigrovaya River near Brovnichi, 27.VII 1993, light trap (leg. Yu.Tchistyakov); 1 male, Ussuri Reserve, Komarovka River, 17.VII 1970 (Leg. E.Kandybina).

DISTRIBUTION. Russia: south part of Khabarovskii krai, Primorskii krai. Mongolia, North Korea, China (Heilongjiang Province).

REMARKS. *C. shuotsuensis* for Russia was recorded by W.Mey (1991) (Ussuri Reserve, Kamenushka Village). New localities are listed.

Setodes obscurus Schmid et Levanidova, 1986

MATERIAL. Primorskii krai: 2 males, 6 females, Bolshaya Ussurka River basin, Roschino, 18-19.VII 1976 (leg. E.Sinchilina).

DISTRIBUTION. Russia: Siberia (Mana River), Far East (first record): Primorskii krai.

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