

**FAUNA AND DISTRIBUTION OF THE PODONOMINAE,
DIAMESINAE, PRODIAMESINAE AND ORTHOCLADIINAE
(DIPTERA, CHIRONOMIDAE) OF THE RUSSIAN FAR EAST
AND BORDERING TERRITORY**

E.A. Makarchenko, M.A. Makarchenko

*Federal Scientific Center of the East Asia Terrestrial Biodiversity, Far East Branch of the Russian Academy of Sciences, 100 let Vladivostoku 159, 690022 Vladivostok, Russia.
E-mail: makarchenko@biosoil.ru*

An updated list of Podonominae, Diamesinae, Prodiamesinae and Orthoclaadiinae species and their distribution in the Russian Far East are given and discussed. Four hundred and ninety seven species in 88 genera are recorded: Podonominae – 9 species (4 genera), Diamesinae – 56 species (13 genera), Prodiamesinae – 7 species (3 genera) and Orthoclaadiinae – 425 species (68 genera). During the period of investigation 4 genus and 184 species in 51 genera have been described as new to science. The highest number of species (304) was found in the Amur River basin, the lowest (47) in Wrangel Island. Most recorded species (70%) are Palearctic in distribution, 30% are Holarctic.

**ФАУНА И РАСПРОСТРАНЕНИЕ ХИРОНОМИД ПОДСЕМЕЙСТВ
PODONOMINAE, DIAMESINAE, PRODIAMESINAE
И ORTHOCLADIINAE (DIPTERA, CHIRONOMIDAE) РОССИЙСКОГО
ДАЛЬНЕГО ВОСТОКА И СОПРЕДЕЛЬНОЙ ТЕРРИТОРИИ**

Е.А. Макаренко, М.А. Макаренко

*Федеральный научный центр биоразнообразия наземной биоты Восточной Азии ДВО РАН, проспект «100 лет Владивостоку», 159, 690022 Владивосток, Россия.
E-mail: makarchenko@biosoil.ru*

Приведен и обсуждается обновленный список видов хирономид подсемейств Podonominae, Diamesinae, Prodiamesinae и Orthoclaadiinae, а также их распространение на Дальнем Востоке России и прилегающей территории. Зарегистрировано четыреста девяносто семь видов из 88 родов: Podonominae – 9 видов (4 рода), Diamesinae – 56 видов (13 родов), Prodiamesinae – 7 видов (3 рода) и Orthoclaadiinae – 425 видов (68 родов). За период исследований были описаны новыми для науки 4 рода и 184 вида из 51 рода. Наибольшее количество видов (304) обнаружено в бассейне реки Амур, самое низкое (47) – на острове Врангеля. По распространению большинство зарегистрированных видов (70%) являются палеарктическими, 30% – голарктическими.

Introduction

The Far East is the easternmost part of Russia and includes the Chukotka, Kamchatka, Magadan, Khabarovsk, Amur and Primorye regions, the Sakhalin and Kurile Islands. This territory occupies an area of about 3.2 million square km representing 19.5% of Russia. In the

North and East, the Far East of Russia borders on the Arctic and Pacific Oceans, in the West on Eastern Siberia, in the South on China, North Korea and Japan (Fig. 1).

In 2005 we published preliminary data on the fauna and taxonomy of chironomids from the Russian Far East (Makarchenko et al., 2005). The list of species in that paper was prepared as a summary table for the main subregions and included all our original results from thirty years of investigations of adults, pupae and larvae, and other information which had been published in Russian and international papers. At that time, 734 species from 155 genera of 6 subfamilies were specified (Makarchenko et al., 2005), as follows: Podonominae (4 genera, 9 species), Tanypodinae (20 genera, 49 species), Diamesinae (13 genera, 50 species), Prodiamesinae (3 genera, 6 species), Orthoclaadiinae (60 genera, 299 species) and Chironominae (55 genera, 321 species).

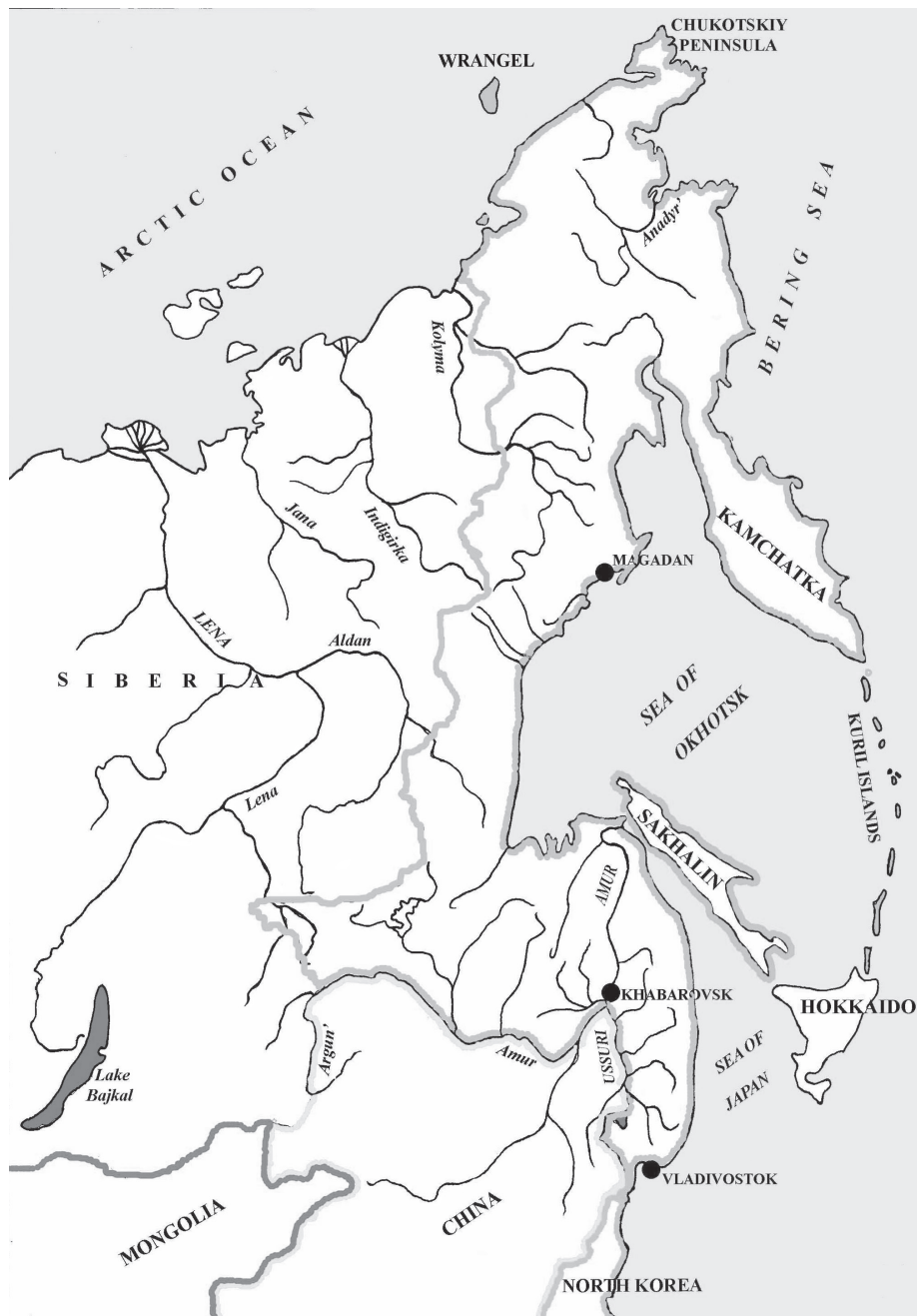


Fig. 1. Schematic map of the Russian Far East and bordering territories.

Later, during preparation of the chironomid part for the “Key to the Insects of the Russian Far East”, the local members of some the genera were revised, especially of all poorly studied Orthoclaadiinae. Changes to erroneous taxon definitions as well as updated synonymies led to the number of species in that subfamily being reduced to 268 (Makarchenko, Makarchenko, 2006).

Since the latter work, corrections to the Orthoclaadiinae list have continued, and new species have been discovered (Makarchenko, Makarchenko, 2007a-c, 2008a-e). Some species that had been misidentified earlier have been excluded from the Far Eastern list. Also, after revision of some Orthoclaadiinae genera and taking into account the latest data on synonyms, the status of 25 species from 15 genera has changed (Makarchenko, Makarchenko, 2008a).

Taking into account all the above, and also taxonomic study of additional material, results of which were published in our papers of 2009–2017 (Khamenkova et al., 2014; Makarchenko, Makarchenko, 2009a-f; 2010a-c; 2012a-e; 2013a-e; 2014a-d; 2015a-c; 2016a-b; Makarchenko et al., 2011; 2014; 2015a-c; 2017a-b; Makarchenko, Semenchko, 2014; Yavorskaya, Makarchenko, 2009; Yavorskaya et al., 2016), we present the current species list of Podonominae, Diamesinae, Prodiamesinae and Orthoclaadiinae in a tabular overview across the main regions of the Russian Far East and Sakha (Yakutia).

Results and discussion

For the Russian Far East and Sakha (Yakutia) currently 497 species in 88 genera of Podonominae, Diamesinae, Prodiamesinae and Orthoclaadiinae are registered (Table 1): Podonominae – 9 species (4 genera), Diamesinae – 56 species (13 genera), Prodiamesinae – 7 species (3 genera) and Orthoclaadiinae – 425 species (68 genera). During the period of investigation 4 genus (*Arctodiamesa* Makarchenko, *Kaluginia* Makarchenko, *Linevitshia* Makarchenko, *Ninelia* Makarchenko et Makarchenko) and 184 species in 51 genera have been described as new to science. The highest numbers of species have been described in the genera *Chaetocladius* (17), *Hydrobaenus* (14), *Bryophaenocladius* (13), *Orthocladius* (11), *Corynoneura* (10), *Cricotopus* (8) and *Tokunagaia* (8 species) (Table 2).

In the southern part of the Far East, the highest number of species (304) were found in the Amur River basin, in streams and lakes of the Sea of Japan basin (227 species), and on Sakhalin and Moneron Islands (150 species); the lowest species number (69) was recorded from the Kurile Islands. In the northern part of the Far East and Sakha (Yakutia), the highest number of species (114) was identified for the Okhotsk Sea basin and Chukotka region (88 species), the lowest (47) in Wrangel Island. The distribution of species in other areas is shown in Table 1. Naturally, the data in the table still have preliminary character, as extensive territories of the Magadan region, the northern part of Khabarovsk Territory, the upper course of the Amur River, etc., have not been investigated.

Most of the recorded species (343 species or 70%) are Palaearctic in distribution, 150 species or 30% are Holarctic. One hundred thirty two species are East Palaearctic continental in distribution, 69 species are distributed in the continental and island parts of the Far East, 66 are amphi-Eurasian, 31 species are known only from islands and 24 species are occur in arctic regions of East Palaearctic. Other types of distribution are rare (see Table 1).

Acknowledgments

The authors are much grateful to all collectors for making material available to us, namely to Dr. N.M. Yavorskaya who collected much material from Amur River basin for describing of a new species.

Table 1

**Chironomids of the Podonominae, Diamesinae, Prodiamesinae and Orthocladiinae subfamilies
of the Russian Far East and bordering territory**

| Taxa | Wrangel Island | Chukotka | Kamchatka | Kurile Islands | Sakhalin and Moneron Islands | Okhotsk Sea Basin | Japanese Sea Basin | Amur River Basin | Sakha (Yakutia) | Type of distribution |
|---|----------------|----------|-----------|----------------|------------------------------|-------------------|--------------------|------------------|-----------------|----------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| Подсем. Podonominae | | | | | | | | | | |
| <i>Boreochlus longicoxalsetosus</i> Kobayashi et Suzuki, 2000 | | | | | + | | | | | EPI |
| <i>B. thienemanni</i> Edwards, 1938 | | | | | + | | + | | | PTP |
| <i>Lasiodiamesa sphagnicola</i> (Kieffer, 1925) | | + | | | + | | + | + | + | HOL |
| <i>Paraboreochlus okinawanus</i> Kobayashi et Kuranishi, 1999 | | | | | + | | + | | | ECI |
| <i>Trichotanypus aberrata</i> Makarchenko, 1983 | | + | | | | | | | + | EPC |
| <i>T. admirabilis</i> Makarchenko, 1983 | + | | | | | | | | | EPA |
| <i>T. arctoalpinus</i> Makarchenko, 1983 | + | + | | | | | | | | EAA |
| <i>T. christmasus</i> Makarchenko, 1983 | | + | | | | | | | | EPA |
| <i>T. posticalis</i> (Lundbeck, 1898) | | + | | | | | | + | | HOL |
| Подсем. Diamesinae | | | | | | | | | | |
| <i>Arctodiamesa amurensis</i> Makarchenko, 2007 | | | | | | | | + | | EPC |
| <i>A. appendiculata</i> (Lundstroem, 1915) | + | + | | | | + | | | | PAA |
| <i>A. marinae</i> Makarchenko, 2005 | | | | | | | + | | | EPC |
| <i>Arctodiamesa</i> sp. Makarchenko, 1995 | | | | | | | | + | | EPC |
| <i>Boreoheptagyia brevitarsis</i> (Tokunaga, 1936) | + | | | | | | | | | ECI |
| <i>Boreoheptagyia ? rugosa</i> (Sounders, 1930) | | | | | | | | + | | PAE |
| <i>B. sasai</i> Makarchenko, 2008 | | | | | | + | | | | ECI |
| <i>Diamesa aberrata</i> Lundbeck, 1898 | | | | | | | + | | | HOL |
| <i>D. alpina</i> Tokunaga, 1936 | | + | + | + | + | | | | | ECI |
| <i>D. amplexivirilia</i> Hansen, 1976 | + | + | | | | | | | | HOL |
| <i>D. arctica</i> (Bohemann, 1865) | + | + | | | | | | | | HOL |
| <i>D. bertrami</i> Edwards, 1935 | | + | | | | + | | | | HOL |
| <i>D. bogatovi</i> Makarchenko, 2012 | | + | | | | | | | | EPC |
| <i>D. dactyloidea</i> Makarchenko, 1988 | | | | | + | + | + | | | ECI |
| <i>D. davisi</i> Edwards, 1933 | + | + | | | + | + | | + | | HOL |
| <i>D. geminata</i> Kieffer, 1925 | | + | | | | | | | | HOL |
| <i>D. gregsoni</i> Edwards, 1933 | | + | + | + | + | + | | + | | HOL |
| <i>D. incallida</i> (Walker, 1856) | | + | | | | | + | | | HOL |
| <i>D. insignipes</i> Kieffer, 1908 | | | + | | | | | | | HOL |
| <i>D. japonica</i> Tokunaga, 1936 | | | | + | | | | | | ECI |
| <i>D. leona</i> Roback, 1957 | | + | + | + | + | | + | + | | HOL |
| <i>D. plumicornis</i> Tokunaga, 1936 | | | | | | | + | | | ECI |
| <i>D. pseudobertrami</i> Makarchenko, 2005 | | | | | | | + | | | EPC |
| <i>D. sommermanni</i> Hansen, 1976 | | + | | | | | | | | HOL |
| <i>D. steinboecki</i> Goetghebuer, 1933 | + | + | | | | | | | | PAA |
| <i>D. tsutsuii</i> Tokunaga, 1936 | | | + | + | + | + | + | + | + | ECI |
| <i>D. vernalis</i> Makarchenko, 1977 | | | | | + | | | + | | ECI |
| <i>D. zernyi</i> Edwards, 1933 | | + | + | | + | + | + | | | PAA |
| <i>Kaluginia lebetiformis</i> Makarchenko, 1987 | | | | | + | | + | | | ECI |
| <i>Lappodiamesa multisetata</i> Makarchenko, 1995 | | | | | | | + | | | EPC |
| <i>L. omelkoi</i> Makarchenko et Makarchenko, 2013 | | | | | | | + | | | EPC |

Continued Table 1

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|---|---|---|---|---|---|---|---|---|----|-----|
| <i>L. vidua</i> (Kieffer, 1922) | + | + | | | | + | | | | EAA |
| <i>L. willasseni</i> Makarchenko et Kerkis, 1991 | | | | | | | + | | | EPC |
| <i>Linevitshia prima</i> Makarchenko, 1987 | | | | + | | | + | + | | ECI |
| <i>Pagastia lamceolata</i> (Tokunaga, 1936) | | | | + | + | | + | | | ECI |
| <i>P. nivis</i> (Tokunaga, 1936) | | | | + | + | | | | | ECI |
| <i>P. orientalis</i> (Tshernovskij, 1949) | | + | + | + | + | + | + | + | + | ECI |
| <i>P. ? orthogonia</i> Oliver, 1959 | | | | | | | | + | | HOL |
| <i>Potthastia gaedii</i> (Meigen, 1838) | | | | | + | + | | + | | PTT |
| <i>P. longimana</i> (Kieffer, 1922) | | | | | + | + | + | + | | HOL |
| <i>P. montium</i> (Edwards, 1929) | | | | | + | | + | + | | PTP |
| <i>Protanytus caudatus</i> Edwards, 1924 | | | | | + | + | + | + | | HOL |
| <i>P. gracilis</i> Makarchenko, 1982 | | + | | | | | | | | EPA |
| <i>P. morio</i> Zetterstedt, 1840 | | + | | | + | | | | | PAA |
| <i>P. pseudomorio</i> Makarchenko, 1982 | | + | | | | | | | | HOL |
| <i>P. tshereshevi</i> Makarchenko, 1982 | | + | | | | | | | | EPA |
| <i>Pseudodiamesa branickii</i> (Nowicki, 1873) | | + | | | + | + | + | + | | HOL |
| <i>P. latistyla</i> Makarchenko, 1989 | | | | | | + | | | | EPC |
| <i>P. stackelbergi</i> (Goetghebuer, 1933) | | | | | + | + | + | + | | PAE |
| <i>Pseudokiefferiella ? parva</i> (Edwards, 1932) | + | + | | | | | | + | | HOL |
| <i>Sympothastia fulva</i> (Johannsen, 1921) | | + | | | + | + | | + | | HOL |
| <i>S. gemmaformis</i> Makarchenko, 1994 | | | | | + | | | | | EPI |
| <i>S. repentina</i> Makarchenko, 1984 | | | | | | | | + | | EPC |
| <i>S. takatensis</i> (Tokunaga, 1936) | | | | | | | | + | + | ECI |
| <i>Syndiamesa mira</i> (Makarchenko, 1980) | | | | | + | + | | | | ECI |
| <i>S. yosii</i> Tokunaga, 1964 | | | | | | | | + | + | ECI |
| Подсем. Prodiamesinae | | | | | | | | | | |
| <i>Monodiamesa bathyphila</i> Kieffer, 1918 | | + | + | | + | | | + | | HOL |
| <i>M. improvisa</i> Makarchenko, 1984 | | | | | | | | + | | EPC |
| <i>M. kamora</i> Makarchenko et Yavorskaya, 2008 | | | | | | | | + | | EPC |
| <i>M. nitida</i> (Kieffer, 1919) | | + | | | + | | | | | PAE |
| <i>Odontomesa fulva</i> (Kieffer, 1919) | | | + | | + | | | | | HOL |
| <i>Prodiamesa levanidovae</i> Makarchenko, 1982 | | | | | + | | + | + | | ECI |
| <i>P. olivacea</i> Meigen, 1818 | | | + | | + | | + | + | | HOL |
| Подсем. Orthoclaadiinae | | | | | | | | | | |
| <i>Aagaardia oksanae</i> Makarchenko et Makarchenko, 2005 | | | | | | | + | + | | EPC |
| <i>Aagaardia severtseni</i> (Aagaard, 1979) | | | | | | | | + | | HOL |
| <i>Abiskomyia korbokhon</i> Makarchenko et Makarchenko, 2015 | | | | | | | | + | | EPC |
| <i>A. levanidovi</i> Makarchenko et Makarchenko, 2015 | | + | + | | | + | | + | | EPC |
| <i>A. rivalis</i> Makarchenko et Makarchenko, 2015 | | | | | | + | | | | EPC |
| <i>A. virgo orientalis</i> Makarchenko et Makarchenko, 2015 | | + | | | | | | | | EPC |
| <i>Acamptocladus submontanus</i> (Edwards, 1932) | | | | | | | | | + | PAE |
| <i>Aericotopus lucens</i> (Zetterstedt, 1850) | | | | | | | + | + | | HOL |
| <i>Allocladius bothnicus</i> (Tuiskunen, 1984) | | | | | | | | + | | PAE |
| <i>A. nanseni</i> (Kieffer, 1926) | + | | | | + | | + | + | | HOL |
| <i>Antillocladius scalpellatus</i> Wang et Sæther, 1993 | | | | | | | + | | | EPC |
| <i>Boreosmittia aurora</i> Makarchenko et Makarchenko, 2009 | | | | | | | + | | | EPC |
| <i>B. elevata</i> Makarchenko et Makarchenko, 2009 | | | | | | | + | + | | EPC |
| <i>B. khehtsyrika</i> Makarchenko et Makarchenko, 2009 | | | | | | | | + | | EPC |
| <i>Brillia bifida</i> (Kieffer, 1909) | | | | + | + | | | + | | PTT |
| <i>B. flavifrons</i> (Johannsen, 1905) | | | | + | + | + | + | + | + | HOL |
| <i>B. laculata</i> Oliver et Roussel, 1983 | | | | | | | + | | | HOL |
| <i>Bryophaenocladus akiensis</i> (Sasa, Shimomura et Matuo, 1991) | | | | + | + | + | + | + | + | ECI |

Continued Table 1

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|---|---|----|---|---|---|---|---|---|----|-----|
| <i>B. auritus</i> Makarchenko et Makarchenko, 2006 | | + | | | | | + | | + | EPA |
| <i>B. dentatus</i> (Karl, 1937) | | | | | + | | | | + | PAE |
| <i>B. doriceni</i> Makarchenko et Makarchenko, 2009 | | | | | | | + | | | EPC |
| <i>B. flavoscutellatus</i> (Malloch, 1915) | | | | | + | | + | + | | HOL |
| <i>B. kobayashii</i> Makarchenko et Makarchenko, 2006 | | | | | + | | | | | EPI |
| <i>B. korkishkoi</i> Makarchenko et Makarchenko, 2006 | | | | | | | + | + | | EPC |
| <i>B. lanceolatus</i> Makarchenko et Makarchenko, 2006 | | | | | | | + | | | EPC |
| <i>B. moneronus</i> Makarchenko et Makarchenko, 2006 | | | | | + | | | | | EPI |
| <i>B. nadezhdae</i> Makarchenko et Makarchenko, 2009 | | | | | | | | + | | EPC |
| <i>B. nitidicollis</i> (Goetghebuer, 1913) | + | | + | | | | + | + | | PAE |
| <i>B. piltunensis</i> Makarchenko et Makarchenko, 2006 | | | | | + | | | | + | EPI |
| <i>B. pleuralis</i> (Malloch, 1915) | | | | | | + | + | + | | HOL |
| <i>B. pokhaensis</i> Makarchenko et Makarchenko, 2012 | | | | | | | | + | | EPC |
| <i>B. pseudosetosus</i> Makarchenko et Makarchenko, 2009 | | | | | | | | + | | EPC |
| <i>B. psilacrus</i> Sæther, 1982 | | | | | + | | | + | + | HOL |
| <i>B. setosus</i> Makarchenko et Makarchenko, 2009 | | | | | | | | + | | EPC |
| <i>B. subparallelus</i> (Malloch, 1915) | | | | | + | + | + | + | | HOL |
| <i>B. timptonensis</i> Makarchenko et Makarchenko, 2012 | | | | | | | | | + | EPC |
| <i>B. vernalis</i> (Goetghebuer, 1921) | | | | + | + | | + | + | + | PAE |
| <i>B. vrangelensis</i> Makarchenko et Makarchenko, 2009 | + | | | | | | | | | EPI |
| <i>Camptocladius stercorarius</i> (Geer, 1776) | | | | | + | + | + | + | | HOL |
| <i>Cardiocladius fuscus</i> Kieffer, 1924 | | | | | + | | + | + | | PAE |
| <i>Chaetocladius amurensis</i> Makarchenko et Makarchenko, 2007 | | | | | | | | + | | EPC |
| <i>C. amnunnycta</i> Makarchenko et Makarchenko, 2011 | | | | | | | | | + | EPC |
| <i>C. antipovae</i> Makarchenko et Makarchenko, 2011 | | | | | | | | + | | EPC |
| <i>C. autumnalis</i> Makarchenko et Makarchenko, 2004 | | | | | | | + | | | EPC |
| <i>C. egorych</i> Makarchenko et Makarchenko, 2017 | | | | | | | | + | | EPC |
| <i>C. elegans</i> Makarchenko et Makarchenko, 2001 | + | ?+ | | | | + | | | ?+ | EPA |
| <i>C. elenae</i> Makarchenko et Makarchenko, 2013 | | | | | | + | | | | EPC |
| <i>C. fedotkin</i> Makarchenko et Makarchenko, 2013 | | | | | | | | + | | EPC |
| <i>C. holmgreni</i> (Jacobson, 1898) | + | | | | | | | + | | PAE |
| <i>C. insularis</i> Makarchenko et Makarchenko, 2004 | | | | + | | | | | | EPI |
| <i>C. ketoiensis</i> Makarchenko et Makarchenko, 2004 | | | | + | | | | | | EPI |
| <i>C. khrulevae</i> Makarchenko et Makarchenko, 2013 | + | | | | | | | | | EPC |
| <i>C. ligni</i> Cranston et Oliver, 1988 | | | | | | | + | + | | HOL |
| <i>C. lopatinskiy</i> Makarchenko et Makarchenko, 2017 | | | | | | | | + | | EPC |
| <i>C. magnalobus</i> Makarchenko et Makarchenko, 2009 | | | + | | | | | + | | EPC |
| <i>C. nudisquamus</i> Makarchenko et Makarchenko, 2003 | | | | | | + | + | | | EPC |
| <i>C. perennis</i> (Meigen, 1930) | + | | | | | | | + | | PAE |
| <i>C. piger</i> (Goetghebuer, 1913) | | | | | | | | + | | HOL |
| <i>C. pseudoligni</i> Makarchenko et Makarchenko, 2002 | + | | | | | | | | | EPA |
| <i>C. makarchenkovi</i> Zelentsov, 2007 | | + | | | | | | | + | PAE |
| <i>C. variabilis</i> Makarchenko et Makarchenko, 2003 | | + | | | | + | | + | | EPA |
| <i>C. yavorskayae</i> Makarchenko et Makarchenko, 2017 | | | | | | | | + | | EPC |
| <i>Compterosmittia lii</i> Lin et al., 2013 | | | | | + | | + | | | EPC |
| <i>C. togalimea</i> (Sasa, Okazawa, 1992) | | | | | + | | + | | | ECI |
| <i>Corynoneura arctica</i> Kieffer, 1923 | + | + | | | + | | + | + | | HOL |
| <i>C. aurora</i> Makarchenko et Makarchenko, 2010 | | | | | | | + | + | | EPC |
| <i>C. collaris</i> Makarchenko et Makarchenko, 2010 | | | + | | | | | + | | EPC |
| <i>C. doriceni</i> Makarchenko et Makarchenko, 2006 | | | | | | | + | + | + | EPC |
| <i>C. edwardsi</i> Brundin, 1949 | | | | | | | + | + | | PAE |
| <i>C. fittkau</i> Schlee, 1968 | | | | | | + | + | | | HOL |

Continued Table 1

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|---|---|---|---|---|---|----|----|----|----|-----|
| <i>C. gratias</i> Schlee, 1968 | | | | | + | | + | | | PAE |
| <i>C. kadalinka</i> Makarchenko et Makarchenko, 2010 | | | | | | | | + | | EPC |
| <i>C. kedrovaja</i> Makarchenko et Makarchenko, 2006 | | | | | | | + | + | | EPC |
| <i>C. kibunelata</i> Sasa, 1989 | | | | | | | + | | | ECI |
| <i>C. lacustris</i> Edwards, 1924 | | | | | | | + | | | HOL |
| <i>C. lobata</i> Edwards, 1924 | | | + | + | | + | + | + | | HOL |
| <i>C. prima</i> Makarchenko et Makarchenko, 2006 | | | | | + | | + | + | | ECI |
| <i>C. secunda</i> Makarchenko et Makarchenko, 2006 | | | | | + | | + | + | | ECI |
| <i>C. schleei</i> Makarchenko et Makarchenko, 2010 | | | | | | | + | + | | EPC |
| <i>C. scutellata</i> , Winnertz, 1846 | + | | | | + | + | + | + | + | HOL |
| <i>C. sundukovi</i> Makarchenko et Makarchenko, 2010 | | | | | | | + | + | | EPC |
| <i>C. tenuistyla</i> Tokunaga, 1936 | | | | | + | | | | | ECI |
| <i>C. tertia</i> Makarchenko et Makarchenko, 2010 | | | | | | | + | | | EPC |
| <i>C. tokarapequea</i> Sasa et Suzuki, 1995 | | | | | | | | + | | ECI |
| <i>Cricotopus</i> (s.str.) <i>albiforceps</i> (Kieffer, 1916) | | | | | | | + | + | | HOL |
| <i>C.</i> (s.str.) <i>annulator</i> Goetghebuer, 1927 | | | | | | | + | + | + | HOL |
| <i>C.</i> (s.str.) <i>beringensis</i> Oliver et Dillon, 1988 | | + | | | | | | | | HOL |
| <i>C.</i> (s.str.) <i>bicinctus</i> (Meigen, 1818) | | | | + | + | + | + | + | | HOL |
| <i>C.</i> (s.str.) <i>bimaculatus</i> Tokunaga, 1936 | | | | | + | | | + | | ECI |
| <i>C.</i> (s.str.) <i>breviantennatum</i> Zelenzov, 2001 | | | | | + | | | + | | PTT |
| <i>C.</i> (s.str.) <i>claripes</i> Hirvenoja, 1973 | | | | | | | ?+ | + | + | PAE |
| <i>C.</i> (s.str.) <i>cylindraceus</i> (Kieffer, 1908) | | | | | | ?+ | | + | | HOL |
| <i>C.</i> (s.str.) <i>festivellus</i> (Kieffer, 1905) | | + | | + | + | | | + | | HOL |
| <i>C.</i> (s.str.) <i>flavocinctus</i> (Kieffer, 1924) | | | | | + | | + | + | | HOL |
| <i>C.</i> (s.str.) <i>leleji</i> Makarchenko et Makarchenko, 2016 | | | + | | | | | + | | EPC |
| <i>C.</i> (s.str.) <i>magus</i> Hirvenoja, 1973 | | | | | | | | + | | PTT |
| <i>C.</i> (s.str.) <i>metatibialis</i> Tokunaga, 1936 | | | | | | | + | + | | ECI |
| <i>C.</i> (s.str.) <i>pilosellus</i> Brundin, 1956 | | | | | + | | | | | HOL |
| <i>C.</i> (s.str.) <i>pseudopolitus</i> Makarchenko et Makarchenko, 2007 | | | | | | | + | + | | EPC |
| <i>C.</i> (s.str.) aff. <i>pulchripes</i> Verral, 1912 | | | | | + | + | | + | | HOL |
| <i>C.</i> (s.str.) <i>reissi</i> Makarchenko, 2000 | | + | | | | | | | | EPA |
| <i>C.</i> (s.str.) <i>samargaensis</i> Makarchenko et Makarchenko, 2007 | | | | | | | + | | | EPC |
| <i>C.</i> (s.str.) <i>septentrionalis</i> Hirvenoja, 1973 | | | + | | | | + | + | + | PAE |
| <i>C.</i> (s.str.) <i>storozhenkoi</i> Makarchenko et Makarchenko, 2016 | | | | | | | + | + | | EPC |
| <i>C.</i> (s.str.) <i>tibialis</i> (Meigen, 1804) | + | + | + | | + | + | | + | + | HOL |
| <i>C.</i> (s.str.) <i>togacutus</i> Sasa et Okazawa, 1992 | | | | + | | | | | | EPI |
| <i>C.</i> (s.str.) <i>tokunagai</i> Hirvenoja, 1973 | | | | | + | | ?+ | ?+ | | EPI |
| <i>C.</i> (s.str.) <i>triannulatus</i> (Macquart, 1826) | | | | | + | | + | + | + | HOL |
| <i>C.</i> (s.str.) <i>trifascia</i> Edwards, 1929 | | | | | | | | + | | HOL |
| <i>C.</i> (s.str.) <i>tristis</i> Hirvenoja, 1973 | | | | | | | | + | | HOL |
| <i>C.</i> (s.str.) <i>tshukoticus</i> Makarchenko et Makarchenko, 2007 | | + | | | | | | | | EPA |
| <i>C.</i> (<i>Isocladius</i>) <i>amurensis</i> Makarchenko et Makarchenko, 2007 | | | | | | | | + | | EPC |
| <i>C.</i> (<i>I.</i>) <i>anatolii</i> Makarchenko et Makarchenko, 2009 | | | | | + | | | | | EPI |
| <i>C.</i> (<i>I.</i>) <i>intersectus</i> (Staeger, 1839) | | | | | | | | + | + | HOL |
| <i>C.</i> (<i>I.</i>) <i>laetus</i> Hirvenoja, 1973 | | | | + | | | + | + | | HOL |
| <i>C.</i> (<i>I.</i>) <i>obnixus</i> (Walker, 1856) | | | | | + | + | + | + | | PAE |
| <i>C.</i> (<i>I.</i>) ? <i>ornatus</i> (Meigen, 1818) | | | | | | | + | | | HOL |
| <i>C.</i> (<i>I.</i>) <i>perniger</i> (Zetterstedt, 1850) | | | | | | + | + | | | PAE |
| <i>C.</i> (<i>I.</i>) <i>reversus</i> Hirvenoja, 1973 | | | | | + | | + | + | + | PAE |
| <i>C.</i> (<i>I.</i>) <i>sylvestris</i> (Fabricius, 1794) | | | + | + | + | | + | + | + | HOL |
| <i>C.</i> (<i>I.</i>) <i>trifasciatus</i> (Meigen, 1813) | | | | | + | + | + | + | | HOL |

Continued Table 1

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|--|---|----|---|---|----|----|---|---|----|-----|
| <i>C. (Nostococladus) lygropis</i> Edwards, 1929 | | | | | | | + | + | | PAE |
| <i>C. (Paratrichocladius) rufiventris</i> (Meigen, 1830) | | | | + | + | | + | + | | HOL |
| <i>C. (P.) scaturigineus</i> (Makarchenko et Makarchenko, 2015) | | | | | | | | + | | EPC |
| <i>C. (P.) sikhotealinus</i> Makarchenko et Makarchenko, 2015 | | | | | | + | | + | | EPC |
| <i>C. (P.) skirwithensis</i> (Edwards, 1929) | | | + | + | | ?+ | | | ?+ | HOL |
| <i>C. (Pseudocricotopus) montanus</i> Tokunaga, 1936 | | | | + | | | | | | EPI |
| <i>C. (P.) tamadigitatus</i> Sasa, 1981 | | | | | | | + | + | | ECI |
| <i>Diplocladius cultriger</i> Kieffer, 1908 | + | + | + | | + | + | + | + | | HOL |
| <i>Doncricotopus bicaudatus</i> Sæther 1981 | | + | | | | | | | | HOL |
| <i>Doithrix doriceni</i> Makarchenko et Makarchenko, 2008 | | | | | | | + | + | | EPC |
| <i>Epoicocladus flavens</i> (Malloch, 1915) | | | | | | | + | | | HOL |
| <i>Eukiefferiella brehmi</i> Gouin, 1943 | | | | | | | + | + | | HOL |
| <i>E. gr. brevicealcar</i> (Kieffer, 1911) | | | | | | | + | + | | |
| <i>E. chuzeoctava</i> Sasa, 1984 | | | | | + | | + | + | | ECI |
| <i>E. claripennis</i> (Lundbeck, 1898) | | | + | + | | + | + | + | | HOL |
| <i>E. convexa</i> Makarchenko et Makarchenko, 2010 | | | | | | | + | + | | EPC |
| <i>E. gr. devonica</i> | | | | | | | | + | | |
| <i>E. ? ilkleyensis</i> Edwards, 1929 | | | | | | + | | | | PAE |
| <i>E. intermedia</i> Makarchenko et Makarchenko, 2010 | | | | | + | | + | | | EPC |
| <i>E. limuri</i> Makarchenko et Makarchenko, 2010 | | | | | | + | | + | + | EPC |
| <i>E. obergi</i> Makarchenko et Makarchenko, 2005 | | | | + | | | | | | EPI |
| <i>E. ternus</i> Makarchenko et Makarchenko, 2012 | | | | | | | | | + | EPC |
| <i>E. togaeutertia</i> Sasa et Okazawa, 1992 | | | | + | | | | + | | EPI |
| <i>E. zhiltzovae</i> Makarchenko et Makarchenko, 2010 | | | | | | | + | | | EPC |
| <i>Eurycnemus</i> sp.* | | | | | + | | + | | | ECI |
| <i>Euryhapsis cilium</i> Oliver, 1981 | | | + | | + | + | | + | | HOL |
| <i>E. fuscipropes</i> Sæther et Wang, 1992 | | | | | | | + | + | + | EPC |
| <i>E. subviridis</i> (Siebert, 1979) | | | + | | + | + | + | + | | PAE |
| <i>Georthocladus shiotanii</i> (Sasa et Kawai, 1987) | | | | | | | + | | | ECI |
| <i>Georthocladus</i> sp.* | | | | | | | + | + | | |
| <i>Gymnometriocnemus</i> (s. str.) ? <i>subnudus</i> (Edwards, 1929) | | | | | | | + | | | PAE |
| <i>G. (Raphidocladius) brumalis</i> (Edwards, 1929) | | | | | | | + | + | | HOL |
| <i>G. (R.) kamimegavirgus</i> Sasa et Hirabayashi, 1993 | | | | | | + | + | + | | ECI |
| <i>Heleniella osarumaculata</i> Sasa, 1988 | | | | | + | | + | | | ECI |
| <i>H. parva</i> Sæther, 1985 | | | | | | | | + | | HOL |
| <i>Heterotanytarsus</i> sp.* | | | | | | | | + | | |
| <i>Heterotrissocladus hange</i> Sæther, 1975 | | ?+ | | | + | ?+ | + | + | | HOL |
| <i>H. ? grimshawi</i> (Edwards, 1929) | | | | | | | | + | | PAE |
| <i>H. maeaeri</i> Brundin, 1949 | | + | | | | | | | | HOL |
| <i>H. marcidus</i> (Walker, 1856) | | | | | ?+ | ?+ | + | + | | HOL |
| <i>H. simmiensis</i> Makarchenko et Makarchenko, 2016 | | | | | | | | + | | EPC |
| <i>H. sonah</i> (Makarchenko et Makarchenko, 2007) | | | | | | | | + | + | EPC |
| <i>H. scutellatus</i> (Goetghebuer, 1942) | | | | | | | | + | | PAE |
| <i>H. subpilosus</i> (Kieffer, 1911) | | + | + | | | | | | | HOL |
| <i>Hydrobaenus bivaquartus</i> Sasa et Kawai, 1987 | | | | | | | | + | | ECI |
| <i>H. conformis</i> (Holmgren, 1869) | | + | + | | | | + | + | | HOL |
| <i>H. distinctus</i> (Makarchenko et Makarchenko, 2006) | | | | | | | + | + | | EPC |
| <i>H. fusistylus</i> (Goetghebuer, 1933) | + | + | + | | | + | + | + | | HOL |
| <i>H. golovinensis</i> Makarchenko et Makarchenko, 2017 | | | | | | | + | + | | EPC |
| <i>H. jacuticus</i> Makarchenko et Makarchenko, 2011 | | | | | | + | | + | + | EPC |
| <i>H. kisoecundus</i> (Sasa et Kondo, 1991) | | | | | | | + | | | ECI |
| <i>H. laticaudus</i> Sæther, 1976 | | | | | | | | + | | HOL |
| <i>H. maiorovi</i> Makarchenko et Makarchenko, 2014 | | | | | | + | | | | EPC |

Continued Table 1

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|--|---|---|---|---|---|---|---|---|----|-----|
| <i>H. majus</i> Makarchenko et Makarchenko, 2015 | | | | | | | + | + | | EPC |
| <i>H. maladistinctus</i> Makarchenko et Makarchenko, 2009 | | | | | | | | + | | EPC |
| <i>H. monodentatus</i> Makarchenko et Makarchenko, 2005 | | | | | | | + | | | EPC |
| <i>H. parvacaudatus</i> Makarchenko et Makarchenko, 2009 | | | | | | | + | + | | EPC |
| <i>H. pseudoconformis</i> Makarchenko et Makarchenko, 2009 | | | | | | | | + | | EPC |
| <i>H. septentrionalis</i> Makarchenko et Makarchenko, 2005 | | + | | | | | | | | EPA |
| <i>H. sigaensis</i> Makarchenko et Makarchenko, 2009 | | | | | | | | + | | EPC |
| <i>H. sikhotealinensis</i> Makarchenko et Makarchenko, 2006 | | | | | | | + | + | | EPC |
| <i>H. sirikus</i> Makarchenko et Makarchenko, 2005 | | | | | | | | + | | EPC |
| <i>H. tiunovi</i> Makarchenko et Makarchenko, 2010 | | | | | | | | + | | EPC |
| <i>Hydrosmittia oxoniana</i> (Edwards, 1922) | + | | | + | + | + | + | + | + | HOL |
| <i>H. rutneri</i> Strenzke et Thienemann, 1942 | | + | | | | | | + | | PAE |
| <i>Krenosmittia borealpina</i> (Goetghebuer, 1944) | | | | | + | | + | + | | HOL |
| <i>K. camptophleps</i> (Edwards, 1929) | | | | | | | | + | + | PAE |
| <i>K. halvorseni</i> Cranston et Sæther, 1986 | | + | + | | | + | + | + | + | HOL |
| <i>K. sakhalinensis</i> Makarchenko et Makarchenko, 2011 | | | | | + | | | | | EPI |
| <i>K. toyamaquerea</i> Sasa, 1996 | | | | | | | | + | | ECI |
| <i>K. variabilis</i> Makarchenko et Makarchenko, 2011 | | | | | | | | + | + | EPC |
| <i>K. zhiltzovae</i> Makarchenko et Makarchenko, 2006 | | | | | | | + | | | EPC |
| <i>Limnophyes aagaardi</i> Sæther, 1990 | | + | | | | | | | | PAE |
| <i>L. anderseni</i> Sæther, 1990 | + | | | | + | | | | | HOL |
| <i>L. akannonus</i> Sasa et Kamimura, 1987 | | | | + | + | | + | + | | ECI |
| <i>L. asquamatus</i> Andersen, 1937 | | + | | + | + | + | + | + | + | HOL |
| <i>L. brachytomus</i> (Kieffer, 1922) | + | | | | | | | | | HOL |
| <i>L. chulmanensis</i> Makarchenko et Makarchenko, 2012 | | | | | | | + | + | | EPC |
| <i>L. convexiusculus</i> Makarchenko et Makarchenko, 2013 | | | | | | + | + | + | | EPC |
| <i>L. ? cranstoni</i> Sæther, 1990 | | | | | + | | + | + | | PAE |
| <i>L. difficilis</i> Brundin, 1947 | | | | | | | + | + | | PAE |
| <i>L. edwardsi</i> Sæther, 1990 | | | + | + | + | + | + | + | | PAE |
| <i>L. eltoni</i> (Edwards, 1922) | + | | + | | | + | | + | + | HOL |
| <i>L. gelasinus</i> Sæther, 1990 | | | | | | | + | + | + | EPC |
| <i>L. margaretae</i> Sæther, 1975 | | | | | | | | | + | HOL |
| <i>L. minimus</i> (Meigen 1818) | | + | | + | + | | + | + | + | HOL |
| <i>L. natalensis</i> (Kieffer, 1914) | | | + | + | + | | + | + | + | HOL |
| <i>L. ? ninae</i> Sæther, 1975 | | | | | | | | | + | HOL |
| <i>L. okhotensis</i> Makarchenko et Makarchenko, 2003 | | | | | | + | | + | + | EPC |
| <i>L. pentaplastus</i> (Kieffer, 1921) | | | | + | + | | + | + | | HOL |
| <i>L. pseudopumilio</i> Makarchenko et Makarchenko, 2001 | + | | | | | | | | | EPA |
| <i>L. pumilio</i> (Holmgren, 1869) | + | + | + | + | + | + | + | + | + | HOL |
| <i>L. schnellii</i> Sæther, 1990 | | | + | + | | | | | | PAE |
| <i>L. strobilifer</i> Makarchenko et Makarchenko, 2004 | | | | + | + | | | + | | ECI |
| <i>L. tamakitanoides</i> Sasa, 1981 | | | | | + | | | | | EPI |
| <i>L. verpus</i> Wang et Sæther, 1993 | | | | | | | | + | | EPC |
| <i>L. vrangelensis</i> Makarchenko et Makarchenko, 2001 | + | | | | | | | | | EPA |
| <i>Limnophyes</i> sp. | | | | | | | | + | | |
| <i>Mesocricotopus thienemanni</i> (Goetghebuer, 1940) | | + | | | | | | | | HOL |
| <i>Mesosmittia patrihortae</i> Sæther, 1985 | | | | | | | + | + | | HOL |
| <i>Metriocnemus amurensis</i> Makarchenko et Makarchenko, 2009 | | | | | + | | | + | | EPC |
| <i>M. beringiensis</i> (Cranston et Oliver, 1988) | | | | + | | | | | | HOL |
| <i>M. bilobatus</i> Makarchenko et Makarchenko, 2004 | | | | | + | | + | + | | ECI |
| <i>M. brusti</i> Sæther, 1989 | | + | | | | | | + | | HOL |
| <i>M. dilatatus</i> Makarchenko et Makarchenko, 2014 | | | | | | | + | + | | EPC |

Continued Table 1

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|--|---|---|---|----|----|---|---|----|----|-----|
| <i>M. eurynotus</i> (Holmgren, 1883) | + | + | | + | + | + | + | + | + | HOL |
| <i>M. fuscipes</i> (Meigen, 1818) | + | + | + | + | | | + | | + | HOL |
| <i>M. intergerivus</i> Sæther, 1995 | + | | | | | | | + | | HOL |
| <i>M. picipes</i> (Meigen, 1818) | | | + | + | + | | + | + | + | HOL |
| <i>M. robustus</i> Makarchenko et Makarchenko, 2014 | | | | | | | | + | | EPC |
| <i>M. rufulus</i> Makarchenko et Makarchenko, 2009 | | | | | + | | | | | EPI |
| <i>M. sternerectus</i> Makarchenko et Makarchenko, 2013 | + | | | | | | | | | EPA |
| <i>M. tenebricus</i> Makarchenko et Makarchenko, 2013 | + | | | | | | | | | EPA |
| <i>M. ursinus</i> (Holmgren, 1869) | + | | | | | | | | | HOL |
| <i>Nanocladius</i> (s.str.) <i>balticus</i> (Palmen, 1959) | | | | | | | + | ?+ | | PAE |
| <i>N.</i> (s. str.) <i>dichromus</i> (Kieffer, 1906) | | | | | + | | | | | PAE |
| <i>N.</i> (s. str.) <i>distinctus</i> (Malloch, 1915) | | | | | + | + | + | + | | HOL |
| <i>N.</i> (s. str.) <i>minimus</i> Sæther, 1977 | | | | | | | | + | | HOL |
| <i>N.</i> (s. str.) <i>palpideminutus</i> Makarchenko et Makarchenko, 2001 | | | | | | | | + | | EPC |
| <i>N.</i> (s. str.) <i>pubescens</i> Makarchenko et Makarchenko, 2004 | | | | | + | | | + | | EPI |
| <i>N.</i> (s. str.) <i>spiniplenus</i> Sæther, 1977 | | | | | | | + | + | | HOL |
| <i>N.</i> (s. str.) <i>tamabicolor</i> Sasa, 1981 | | | | | + | | + | + | | ECI |
| <i>N. (Plecopteracluthus) asiaticus</i> Hayashi, 1998 | | | | | + | | | | | EPI |
| <i>Ninelia proboscidea</i> (Makarchenko et Makarchenko, 2003) | | | | | | + | + | | | EPC |
| <i>Orthocladius (Eudactylocladius) dubitatus</i> Johannsen, 1942 | | | | | + | | | | | HOL |
| <i>O. (E.) gelidorum</i> (Kieffer, 1923) | | | | | | | | + | | PAE |
| <i>O. (E.) olivaceus</i> (Kieffer, 1911) | | | + | ?+ | ?+ | | | | + | HOL |
| <i>O. (E.) subletteorum</i> Cranston, 1988 | | | | ?+ | | | | ?+ | + | HOL |
| <i>O. (E.) tschernovi</i> Makarchenko et Makarchenko, 2014 | + | | | | | | | | | EPA |
| <i>O. (E.) ushakovskiensis</i> Makarchenko et Makarchenko, 2014 | + | | | | | | | | | EPA |
| <i>O. (Euorthocladius) abiskoensis</i> Thienemann et Krüger, 1937 | | | | | | | + | + | | HOL |
| <i>O. (E.) insolitus</i> Makarchenko et Makarchenko, 2006 | + | + | | | | + | | | | EPA |
| <i>O. (E.) kanii</i> (Tokunaga, 1939) | | | | | + | + | + | | | ECI |
| <i>O. (E.) rivicola</i> Kieffer, 1921 | | | | | | + | + | + | | HOL |
| <i>O. (E.) rivulorum</i> Kieffer, 1909 | | | | | | + | + | + | | HOL |
| <i>O. (E.) saxosus</i> (Tokunaga, 1939) | | | + | | + | + | + | + | | HOL |
| <i>O. (E.) subbullatus</i> Makarchenko et Makarchenko, 2008 | | | | | | | + | | | EPC |
| <i>O. (E.) thienemanni</i> Kieffer, 1906 | | | | | | | + | | | HOL |
| <i>O. (Mesorthocladius) frigidus</i> Zetterstedt, 1838) | | + | + | + | + | + | + | + | + | HOL |
| <i>O. (M.) ebrius</i> Makarchenko et Makarchenko, 2012 | | | | | | | | | + | EPC |
| <i>O. (M.) klishkoae</i> Makarchenko et Makarchenko, 2008 | | | | | | | | + | | EPC |
| <i>O. (M.) lamellatus</i> Sæther, 2005 | | | | | | | + | + | | HOL |
| <i>O. (M.) roussellae</i> Sponis, 1990 | + | + | | | | | | + | | HOL |
| <i>O. (M.) vaillantii</i> Langton et Cranston, 1991 | | | | | | | + | + | | PAE |
| <i>O.</i> (s. str.) <i>appersoni</i> Sponis, 1977 | | | + | | | + | | | | HOL |
| <i>O.</i> (s. str.) <i>chuzesectus</i> Sasa, 1984 | | | | | | | + | + | | ECI |
| <i>O.</i> (s. str.) <i>cognatus</i> Makarchenko et Makarchenko, 2006 | | + | | | | | | | | EPA |
| <i>O.</i> (s. str.) <i>defensus</i> Makarchenko et Makarchenko, 2006 | | | + | | | + | + | + | + | EPC |
| <i>O.</i> (s. str.) <i>hazenensis</i> Sponis, 1977 | + | | | | | | | | | HOL |
| <i>O.</i> (s. str.) <i>gr. nitidoscutellatus</i> | | + | + | + | | + | | | | |
| <i>O.</i> (s. str.) <i>linevitshae</i> Makarchenko et Makarchenko, 2008 | | | + | | | | | | | EPC |
| <i>O.</i> (s. str.) <i>oblidens</i> (Walker, 1856) | | | | | + | | | | | HOL |
| <i>O.</i> (s. str.) <i>sakhalinensis</i> Makarchenko et Makarchenko, 2006 | | | | | + | | | | | EPI |
| <i>O.</i> (s. str.) <i>pedestris</i> Kieffer, 1909 | | | + | | | | + | + | + | PAE |

Continued Table 1

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|--|---|---|---|---|----|---|---|----|----|-----|
| <i>O. (s. str.) rubicundus</i> (Meigen, 1818) | | | | | | | + | + | | PAE |
| <i>O. (s. str.) setosus</i> Makarchenko et Makarchenko, 2006 | | | + | | + | + | + | + | + | ECI |
| <i>O. (s. str.) yugashimaensis</i> Sasa, 1979 | | | + | | | | + | + | | ECI |
| <i>O. (Pogonocladius) consobrinus</i> (Holmgren, 1869) | + | + | | | | | | | | HOL |
| <i>O. (Symposiocladius) lignicola</i> Kieffer, 1915 | | | + | | ?+ | + | + | + | | HOL |
| <i>O. (S.) schnelli</i> Sæther, 2004 | | | | | | + | | + | | PAE |
| <i>Parachaetocladius akanoctavus</i> Sasa et Kamimura, 1987 | | | | | | | + | | | ECI |
| <i>Paracladius conversus</i> (Walker, 1856) | | | + | | | | + | | + | HOL |
| <i>P. omolonus</i> Makarchenko et Makarchenko, 2006 | | + | | | | | | | | EPA |
| <i>P. seutacanus</i> Makarchenko et Makarchenko, 2006 | | + | | | | | | | | EPA |
| <i>Paracricotopus</i> sp. | | | | | | | + | + | | |
| <i>P. tamabrevis</i> (Sasa, 1983) | | | | | | | + | + | | ECI |
| <i>Parakiefferiella bathophila</i> (Kieffer, 1912) | | + | + | + | + | + | | + | | HOL |
| <i>P. bilobata</i> Tuiskunen, 1986 | | | | | | | | + | | PAE |
| <i>P. coronata</i> (Edwards, 1929) | | | | | + | | + | + | | HOL |
| <i>P. gynocera</i> (Edwards, 1937) | | + | | | | | | | | PTT |
| <i>P. aff. nigra</i> Brundin, 1949 | | | | | | | | | + | HOL |
| <i>P. rara</i> Makarchenko et Makarchenko, 2007 | | | + | | ?+ | + | + | + | | EPC |
| <i>P. scandica</i> Brundin, 1956 | | + | | | | | | | | PAE |
| <i>P. smolandica</i> (Brundin, 1947) | | | | | + | + | + | + | + | PAE |
| <i>P. viktana</i> Makarchenko et Makarchenko, 2010 | | | + | | | + | | | | EPC |
| <i>P. vshivkovae</i> Makarchenko et Makarchenko, 2001 | | | | | | | | + | | EPC |
| <i>Paralimnophyes dolgikh</i> Makarchenko et Makarchenko, 2015 | | | | | | | | + | | EPC |
| <i>P. longiseta</i> (Thienemann, 1921) | | | | | | | | + | | PAE |
| <i>Parametriocnemus borealpinus</i> Gouin, 1942 | | | + | | | + | + | + | | PAE |
| <i>P. biappendiculatus</i> Makarchenko et Makarchenko, 2006 | | + | | | | | | | | EPA |
| <i>P. graminicola</i> (Lundbeck, 1898) | | | | | | | | + | | HOL |
| <i>P. kurilensis</i> Makarchenko et Makarchenko, 2006 | | | | + | | | + | | | ECI |
| <i>P. stylatus</i> (Kieffer, 1924) | | | | | + | | + | + | | HOL |
| <i>P. zorinae</i> Makarchenko et Makarchenko, 2009 | | | | | | | + | | | EPC |
| <i>Parametriocnemus</i> sp.* | | | | | | | + | | | |
| <i>Parametriocnemus</i> sp. A* Sæther, 1969 | | | | | | + | | + | | HOL |
| <i>Paraphaenocladus exagitans</i> (Johannsen, 1905) | | | | | | + | | + | | HOL |
| <i>P. impensus</i> (Walker, 1856) | + | + | | + | + | + | | + | + | HOL |
| <i>P. gr. irritus</i> | | | | | | | | + | | |
| <i>P. kunashiricus</i> Makarchenko et Makarchenko, 2006 | | | | + | | | | | | EPI |
| <i>P. penerasus</i> (Edwards, 1929) | | | | + | + | | | ?+ | | PAE |
| <i>Parasmittia bidzhanica</i> Makarchenko et Makarchenko, 2012 | | | | | | | | + | | EPC |
| <i>P. carinata</i> Strenzke, 1950 | | | | | | | | + | | HOL |
| <i>P. kamicuta</i> (Sasa et Hirabayashi, 1993) | | | | | | | | + | | ECI |
| <i>Paratrissocladius excerptus</i> (Walker, 1856) | | | | + | | | | | | PAE |
| <i>Parorthocladus</i> sp. 1 Makarchenko et Makarchenko, 2015 | | | | | | + | + | | | EPC |
| <i>P. lazovskiensis</i> Makarchenko et Makarchenko, 2015 | | | | | + | | + | | | ECI |
| <i>P. plolabius</i> Makarchenko et Makarchenko, 2015 | | | + | | | + | | + | | EPC |
| <i>P. tyurkini</i> Makarchenko et Makarchenko, 2015 | | + | | | | | | | | EPC |
| <i>Platysmittia bilyji</i> Sæther, 1985 | | | | | | | + | + | | HOL |
| <i>Propsilocerus akamusi</i> (Tokunaga, 1938) | | | | | | | | + | | ECI |
| <i>P. amurensis</i> Makarchenko et Makarchenko, 2009 | | | | | | | | + | | EPC |
| <i>P. paradoxus</i> (Lundström, 1915) | | | | | | | | + | | PTP |
| <i>Prosmittia anyuiica</i> Makarchenko et Makarchenko, 2009 | | | | | | | | + | | EPC |
| <i>P. kamiqarta</i> (Sasa et Hirobayashi, 1991) | | | | + | + | + | | | | ECI |
| <i>P. rectangularis</i> Tuiskunen, 1985 | | + | | | | + | | + | | PAE |

End of Table 1

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|---|-----------|-----------|-----------|-----------|------------|------------|------------|------------|-----------|-----|
| <i>S. seppittkai</i> Ashe et O'Connor, 2012 | | | | | | + | + | + | | EPC |
| <i>S. vesparum</i> Goetghebuer, 1921 (after Tokunaga 1940) | | | | | + | | | | | PAE |
| <i>Stilocladius intermedius</i> Wang, 1998 | | | | + | + | + | + | + | | ECI |
| <i>S. orientalis</i> Makarchenko et Makarchenko, 2003 | | | | | | + | + | + | | EPC |
| <i>Symbiocladius villosus</i> Makarchenko et Makarchenko, 2015 | | | | | + | + | + | + | | ECI |
| <i>Synorthocladius semivirens</i> (Kieffer, 1909) | | | | | | + | + | + | + | HOL |
| <i>Thienemanniella chuzeduodecima</i> Sasa, 1984 | | | + | + | + | | + | + | | ECI |
| <i>T. ? lobapodema</i> Hestenes et Sæther | | | | | | | | + | | HOL |
| <i>T. majuscula</i> (Edwards, 1924) | | + | | + | | + | + | | | HOL |
| <i>T. oyabedilata</i> Sasa, Kawai et Ueno, 1988 | | | | | + | | ?+ | + | | ECI |
| <i>T. tiunovae</i> Makarchenko et Makarchenko, 2006 | | | | | + | + | | + | | ECI |
| <i>T. xena</i> (Roback, 1957) | | | | | + | + | + | + | + | HOL |
| <i>Tokunagaia ambigua</i> Makarchenko et Makarchenko, 2007 | | | + | | + | | + | + | | ECI |
| <i>T. biconvexa</i> Makarchenko et Makarchenko, 2007 | | | | + | | | | | | EPI |
| <i>T. chuzenona</i> (Sasa, 1984) | | | | | + | | | | | EPI |
| <i>T. ikip</i> Makarchenko et Makarchenko, 2007 | | | | + | | | | | | EPI |
| <i>T. interdicta</i> Makarchenko et Makarchenko, 2009 | | | | | | | + | | | EPC |
| <i>T. kibunensis</i> (Tokunaga, 1939) | + | | | | | | | ?+ | | ECI |
| <i>T. oleantoni</i> Makarchenko et Makarchenko, 2007 | | | + | | | | + | + | | EPC |
| <i>T. paraexcellens</i> Tuiskunen, 1986 | | + | | | | | | + | | PAE |
| <i>T. pseudorowensis</i> Makarchenko et Makarchenko, 2004 | | | | | + | | | | | EPI |
| <i>T. rectangularis</i> (Goetghebuer, 1940) | + | + | + | | | | | ?+ | | PAE |
| <i>T. rowensis</i> (Sæther, 1969) | | | | | | | + | | | HOL |
| <i>T. scutellata</i> (Brundin, 1956) | | | | | | | | + | + | PAE |
| <i>T. singula</i> Makarchenko et Makarchenko, 2009 | | | | | | | | + | | EPC |
| <i>Tokunagaia</i> sp.* | | | | | | | | + | | EPC |
| <i>T. tatyanae</i> (Makarchenko et Makarchenko, 2006) | | | + | | | | | + | | EPA |
| <i>T. tonollii</i> (Rossaro, 1983) | | | | + | | | | | | PAE |
| <i>Trichosmittia hikosana</i> Yamamoto, 1999 | | | | | | | | + | | EPI |
| <i>Tsudayusurika safonikha</i> Makarchenko et Makarchenko, 2012 | | | | | | | + | + | | EPC |
| <i>Tvetenia bidzhanica</i> Makarchenko et Makarchenko, 2012 | | | | + | | | + | + | | EPC |
| <i>T. boreomontana</i> Makarchenko et Makarchenko, 2006 | | + | | | | + | | + | | EPC |
| <i>T. pilata</i> Makarchenko et Makarchenko, 2012 | | | | | + | + | + | + | | EPC |
| <i>T. pogibi</i> Makarchenko et Makarchenko, 2012 | | | | | + | | | | | EPI |
| <i>T. tamaftava</i> Sasa, 1981 | | | | + | + | | + | + | + | ECI |
| <i>T. vialis</i> Makarchenko et Makarchenko, 2012 | | | | | | | + | + | | EPC |
| <i>Vivacricotopus ablusus</i> Schnell et Sæther, 1988 | | | | | | | | + | | PAE |
| <i>V. elgandzha</i> Makarchenko et Makarchenko, 2005 | | | | | | | | + | | EPC |
| <i>V. nikolaii</i> Makarchenko et Makarchenko, 2016 | | | | | | | | + | | EPC |
| <i>V. piloculus</i> Cranston et Oliver, 1988 | | | | | | + | | + | | HOL |
| <i>Zalutschia tatica</i> (Pagast, 1935) | | + | | | | | | | | HOL |
| <i>Z. ? humphriesiae</i> Dowling et Murray, 1980 | | | | | | + | | | + | PAE |
| <i>Z. tornetraeskensis</i> (Edwards et Thienemann, 1941) | | | | | | | | + | | PTT |
| <i>Z. trigonacies</i> Sæther, 1976 | | + | | | | | | + | | HOL |
| <i>Z. zalutschicola</i> Lipina, 1939 | | | | | | + | | | | HOL |
| Total: 497 species | 47 | 88 | 61 | 69 | 150 | 114 | 227 | 304 | 74 | |

Comments. Types of distribution (after Gorodkov 1984): ECI – East Palaearctic Continental Island, EPA – East Palaearctic Arctic, EPC – East Palaearctic Continental, EPI – East Palaearctic Island, HOL – Holarctic, PAA – Palaearctic Arcto-Alpine, PAE – Palaearctic Amphieurasian, PTP – Palaearctic Transpalaearctic, PTT – Palaearctic Temperate; + – present, * – known as larva or pupa.

Table 2

Numbers of new species described in genera of Diamesinae, Prodiamesinae and Orthocladiinae

| Subfamily and genus | New species | Subfamily and genus | New species |
|--|-------------|---|-------------|
| Diamesinae | | <i>Limnophyes</i> Eaton | 6 |
| <i>Arctodiamesa</i> Makarchenko | 1 | <i>Metriocnemus</i> van der Wulp | 7 |
| <i>Boreoheptagyia</i> Brundin | 1 | <i>Nanocladius</i> Kieffer | 2 |
| <i>Diamesa</i> Meigen | 4 | <i>Ninelia</i> Makarchenko et Makarchenko | 1 |
| <i>Kaluginia</i> Makarchenko | 1 | <i>Orthocladius</i> van der Wulp | 11 |
| <i>Lappodiamesa</i> Serra-Tosio | 3 | <i>Paracladius</i> Hirvenoja | 2 |
| <i>Linevitshia</i> Makarchenko | 1 | <i>Parakiefferiella</i> Thienemann | 3 |
| <i>Protanypus</i> Kieffer | 3 | <i>Paralimnophyes</i> Brundin | 1 |
| <i>Pseudodiamesa</i> Goetghebuer | 1 | <i>Parametriocnemus</i> Goetghebuer | 3 |
| <i>Sympothastia</i> Pagast | 2 | <i>Paraphaenocladius</i> Thienemann | 1 |
| <i>Syndiamesa</i> Kieffer | 1 | <i>Parasmittia</i> Strenzke | 1 |
| Prodiamesinae | | <i>Paratrichocladius</i> Santos Abreu | 2 |
| <i>Monodiamesa</i> Kieffer | 2 | <i>Parorthocladius</i> Thienemann | 3 |
| <i>Prodiamesa</i> Kieffer | 1 | <i>Propilocerus</i> Kieffer | 1 |
| Orthocladiinae | | <i>Prosmittia</i> Brundin | 2 |
| <i>Aagaardia</i> Sæther | 1 | <i>Psectrocladius</i> Kieffer | 2 |
| <i>Abiskomyia</i> Edwards | 4 | <i>Pseudorthocladius</i> Goetghebuer | 5 |
| <i>Boreosmittia</i> Tuiskunen | 3 | <i>Pseudosmittia</i> Edwards | 3 |
| <i>Bryophaenocladius</i> Thienemann | 13 | <i>Rheocricotopus</i> Brundin | 4 |
| <i>Chaetocladius</i> Kieffer | 17 | <i>Smittia</i> Holmgren | 3 |
| <i>Corynoneura</i> Winnertz | 10 | <i>Stilocladius</i> Rossaro | 1 |
| <i>Cricotopus</i> van der Wulp | 8 | <i>Symbiocladius</i> Kieffer | 1 |
| <i>Doithrix</i> Sæther et Sublette | 1 | <i>Thienemanniella</i> Kieffer | 1 |
| <i>Eukiefferiella</i> Thienemann | 5 | <i>Tokunagaia</i> Sæther | 8 |
| <i>Heterotrissocladius</i> Spärck | 2 | <i>Tsundayusurica</i> Sasa | 1 |
| <i>Hydrobaenus</i> Fries | 14 | <i>Tvetenia</i> Kieffer | 5 |
| <i>Krenosmittia</i> Thienemann et Krüger | 3 | <i>Vivacricotopus</i> Schnell et Sæther | 2 |
| Total: 184 new species in 51 genera | | | |

References

- Gorodkov K.B. 1984.** Types of distribution of insects of tundra and forest zones of European part of the USSR. Nauka, Leningrad. 20 pp. [In Russian].
- Khamenkova E.V., Makarchenko E.A., Makarchenko M.A. 2014.** Preliminary data on chironomid fauna (Diptera, Chironomidae) of the Ola River basin in Magadan Region // Eurasian Entomological Journal. V. 13, N 2. P. 190–198. [In Russian].
- Makarchenko E.A., Makarchenko M.A., Zorina O.V., Sergeeva I.V. 2005.** Preliminary data on fauna and taxonomy of chironomids (Diptera, Chironomidae) of the Russian Far East // Vladimir Ya. Levandov's Biennial Memorial Meetings. V. 3. Dal'nauka, Vladivostok. P. 394–420. [In Russian].
- Makarchenko E.A., Makarchenko M.A. 2006.** 5. Subfamily Orthocladiinae. In: Lelei, A.S. (Ed.), Key to the Insects of the Russian Far East. V. 6. Diptera and Siphonaptera. Pt 4. Dal'nauka, Vladivostok, pp. 280–372, 482–530, 623–671. [In Russian].
- Makarchenko E.A., Makarchenko M.A. 2007a.** Chironomids of *Prosmittia* Brundin (Diptera, Chironomidae, Orthocladiinae) from the Russian Far East // Russian Entomological Journal. V. 16, N 1. P. 119–122.
- Makarchenko E.A., Makarchenko M.A. 2007b.** New findings of chironomids (Diptera, Chironomidae, Orthocladiinae) in Far East in the Russian Far East. I. Subfamily Orthocladiinae // Eurasian Entomological Journal. V. 6, N 3. P. 299–310. [In Russian].
- Makarchenko E.A., Makarchenko M.A. 2007c.** New findings of chironomids (Diptera, Chironomidae, Orthocladiinae) in Far East and bordering territories. II. *Cricotopus* van der Wulp, 1874 // Eurasian Entomological Journal. V. 6, N 4. P. 439–447. [In Russian].
- Makarchenko E.A., Makarchenko M.A. 2008a.** Additions and corrections to the Orthocladiinae (Diptera, Chironomidae) fauna of the Russian Far East // Vladimir Ya. Levandov's Biennial Memorial Meetings. V. 4. Dal'nauka, Vladivostok. P. 172–186. [In Russian].
- Makarchenko E.A., Makarchenko M.A. 2008b.** *Doithrix doriceni* sp.n. (Diptera, Chironomidae, Orthocladiinae) from South Primorye of the Russian Far East // Eurasian Entomological Journal. V. 7, N 1. P. 68–70.

- Makarchenko E.A., Makarchenko M.A. 2008c.** New findings of chironomids (Diptera, Chironomidae, Orthocladiinae) in Far East and bordering territories. III. *Orthocladius* van der Wulp // Eurasian Entomological Journal. V. 7, N 2. P. 243–262. [In Russian].
- Makarchenko E.A., Makarchenko M.A. 2008d.** New findings of chironomids (Diptera, Chironomidae) in Far East and bordering territories. V. Subfamily Orthocladiinae // Vladimir Ya. Levanidov's Biennial Memorial Meeting. V. 4. Dal'nauka, Vladivostok. P. 187–195. [In Russian].
- Makarchenko E.A., Makarchenko M.A. 2008e.** Review of the genus *Pseudosmittia* Edwards (Diptera, Chironomidae, Orthocladiinae) from the Russian Far East // Russian Entomological Journal. V. 17, N 2. P. 215–226.
- Makarchenko E.A., Makarchenko M.A. 2009a.** New data on the taxonomy and distribution of *Tokunagaia* Sæther (Diptera, Chironomidae, Orthocladiinae) in the Russian Far East // Eurasian Entomological Journal. V. 8, N 4. P. 421–428.
- Makarchenko E.A., Makarchenko M.A. 2009b.** New findings of chironomids (Diptera, Chironomidae) in Far East and bordering territories. IV. Subfamily Orthocladiinae // Eurasian Entomological Journal. V. 8, N 1. P. 117–124.
- Makarchenko E.A., Makarchenko M.A. 2009c.** New findings of chironomids (Diptera, Chironomidae) in Far East and bordering territories. VII. *Bryophaenocladius* Thienemann // Eurasian Entomological Journal. V. 8, supplement 1. P. 51–63. [In Russian].
- Makarchenko E.A., Makarchenko M.A. 2009d.** New findings of chironomids (Diptera, Chironomidae) in Far East and bordering territories. VIII. Subfamily Orthocladiinae // Eurasian Entomological Journal. V. 8, N 3. P. 271–280. [In Russian].
- Makarchenko E.A., Makarchenko M.A. 2009e.** *Propilocerus amurensis* sp.n. (Diptera, Chironomidae, Orthocladiinae) from Amur River basin (Russian Far East) // Euroasian Entomological Journal. V. 8, N 2. P. 261–263.
- Makarchenko E.A., Makarchenko M.A. 2009f.** The first data on chironomid fauna (Diptera, Chironomidae) of the Langry River basin (North-West of Sakhalin) // Eurasian Entomological Journal. V. 8, supplement 1. P. 71–77. [In Russian].
- Makarchenko E.A., Makarchenko M.A., Yavorskaya N.M. 2009.** New findings of chironomids (Diptera, Chironomidae) in Far East and bordering territories. VI. *Hydrobaenus* Fries // Eurasian Entomological Journal. V. 8, supplement 1. P. 33–50. [In Russian].
- Makarchenko E.A., Makarchenko M.A. 2010.** New data on chironomid fauna and taxonomy of the genus *Corynoneura* Winnertz (Diptera, Chironomidae, Orthocladiinae) of the Russian Far East and bordering territories // Eurasian Entomological Journal. V. 9, N 3. P. 353–370. [In Russian].
- Makarchenko E.A., Makarchenko M.A. 2010a.** *Hydrobaenus tumovi* sp.n. (Diptera, Chironomidae, Orthocladiinae) from Sokhondinsky State Biosphere Reserve (Zabaikal'sky Territory, Russia) // Eurasian Entomological Journal. V. 9, N 3. P. 411–412.
- Makarchenko E.A., Makarchenko M.A. 2010b.** New findings of chironomids (Diptera, Chironomidae, Orthocladiinae) in Far East and bordering territories. IX. Genus *Eukiefferiella* Thienemann // Eurasian Entomological Journal. V. 9, N 1. P. 65–82. [In Russian].
- Makarchenko E.A., Makarchenko M.A. 2010c.** Review of the chironomid genus *Parakiefferiella* Thienemann (Diptera, Chironomidae, Orthocladiinae) of the Russian Far East // Eurasian Entomological Journal. V. 9, N 3. P. 397–410. [In Russian].
- Makarchenko E.A., Makarchenko M.A., Zorina O.V., Travina T.N., Lobkova L.E. 2011.** New data on chironomid fauna (Diptera, Chironomidae) of the Kamchatka Peninsula // Vladimir Ya. Levanidov's Biennial Memorial Meetings. V. 5. Dal'nauka, Vladivostok. P. 307–328. [In Russian].
- Makarchenko E.A., Makarchenko M.A. 2012a.** New findings of chironomids (Diptera, Chironomidae) in Far East and bordering territories. X. Subfamilies Diamesinae and Orthocladiinae // Eurasian Entomological Journal. V. 11, supplement 2. P. 85–92. [In Russian].
- Makarchenko E.A., Makarchenko M.A. 2012b.** Preimaginal stages of development of some species of Far Eastern chironomids of Orthocladiinae subfamily (Diptera, Chironomidae) // Eurasian Entomological Journal. V. 11, N 2. P. 115–128. [In Russian].
- Makarchenko E.A., Makarchenko M.A. 2012c.** Preliminary data on the chironomid fauna and taxonomy (Diptera, Chironomidae) of the South Yakutia // Eurasian Entomological Journal. V. 11. Supplement 2. P. 67–84. [In Russian].
- Makarchenko E.A., Makarchenko M.A. 2012d.** Review of the genus *Pseudorthocladius* Goetghebuer, 1943 (Diptera, Chironomidae, Orthocladiinae) of the Russian Far East // Eurasian Entomological Journal. V. 11, N 1. P. 75–82. [In Russian].
- Makarchenko E.A., Makarchenko M.A. 2012e.** Review of the genus *Tvetenia* Kieffer (Diptera, Chironomidae, Orthocladiinae) of the Russian Far East and bordering territories // Eurasian Entomological Journal. V. 11, supplement 1. P. 137–152. [In Russian].
- Makarchenko E.A., Makarchenko M.A. 2013a.** A new species of *Lappodiamesa* Serra-Tosio (Diptera: Chironomidae: Diamesinae) from the Russian Far East, with a key to known species of the genus // Zootaxa. V. 3709, N 6. P. 591–596.
- Makarchenko E.A., Makarchenko M.A. 2013b.** *Chaetocladus (Chaetocladus) elenae* sp.n. (Diptera, Chironomidae, Orthocladiinae), a new chironomid species from the Magadan Region, Russian Far East // Eurasian Entomological Journal. V. 12, N 6. P. 594–596.
- Makarchenko E.A., Makarchenko M.A. 2013c.** *Chaetocladus* (s. str.) *khrulevae* sp.n. (Diptera, Chironomidae, Orthocladiinae) from the Wrangel Island (Chukotka, Russian Far East) // Euroasian Entomological Journal. V. 12, N 4. P. 400–402.

- Makarchenko E.A., Makarchenko M.A. 2013d.** Chironomid fauna (Diptera, Chironomidae) of the Wrangel Island (Chukotka, Russian Far East) // Freshwater Life. V. 1. Vladivostok: Dal'nauka. P. 144–157. [In Russian].
- Makarchenko E.A., Makarchenko M.A. 2013e.** New findings of chironomids (Diptera, Chironomidae) in Far East and bordering territories. XI. Subfamily Orthoclaadiinae // Eurasian Entomological Journal. V. 12, N 4. P. 389–399. [In Russian].
- Makarchenko E.A., Makarchenko M.A. 2014a.** New findings of chironomids (Diptera, Chironomidae, Orthoclaadiinae) in Far East and bordering territories. XII. Genus *Metriocnemus* van der Wulp, 1874 // Eurasian Entomological Journal. V. 13, N. 1. P. 35–40. [In Russian].
- Makarchenko E.A., Makarchenko M.A. 2014b.** On taxonomy of *Hydrobaenus* Fries, 1830 (Diptera, Chironomidae, Orthoclaadiinae) from the Russian Far East, with a key to species // Zootaxa. V. 3760, N 3. P. 429–438.
- Makarchenko E.A., Makarchenko M.A. 2014c.** *Paratrichocladus fontinalis* sp.n. – a new species of chironomids (Diptera, Chironomidae, Orthoclaadiinae) from springs of Amur River basin (Russian Far East) // Eurasian Entomological Journal. V. 13, N 3. P. 280–285. [In Russian].
- Makarchenko E.A., Makarchenko M.A. 2014d.** Two new species of chironomids (Diptera, Chironomidae) from Wrangel Island // Zoological Journal. V. 93, N 1. P. 185–188. [In Russian].
- Makarchenko E.A., Makarchenko M.A., Orel (Zorina O.V.). 2014.** Preliminary data on chironomid faunas (Diptera, Chironomidae) of the Bidzhan River basin (Jewish Autonomous Region, Russian Far East) // Vladimir Ya. Levaniidov's Biennial Memorial Meetings V. 6. Dal'nauka, Vladivostok. P. 421–434. [In Russian].
- Makarchenko E.A., Semenchko A.A. 2014.** Morphological redescription and DNA barcoding of *Linevitshia prima* Makarchenko, 1987 (Diptera, Chironomidae, Diamesinae) from Amur River basin (Russian Far East), with notes on systematics of the genus // Zootaxa. V. 3872, N. 4. P. 355–364.
- Makarchenko E.A., Makarchenko M.A. 2015a.** A new name for *Paratrichocladus fontinalis* Makarchenko et Makarchenko, a secondary homonym of *Syncricotopus fontinalis* Sæther, 1969 (Diptera, Chironomidae) // Far Eastern Entomologist. N 287. P. 23–24.
- Makarchenko E.A., Makarchenko M.A. 2015b.** A review of the genus *Parorthocladus* Thienemann, 1935 (Diptera, Chironomidae, Orthoclaadiinae) from the Russian Far East // Zootaxa. V. 3974, N 3. P. 413–423.
- Makarchenko E.A., Makarchenko M.A. 2015c.** Review of the genus *Abiskomyia* Edwards (Diptera, Chironomidae, Orthoclaadiinae), with description of new taxa from the Russian Far East and bordering territories // Zootaxa. V. 3919, N 1. P. 41–60.
- Makarchenko E.A., Makarchenko M.A., Semenchko A.A. 2015a.** Morphological description and DNA barcoding of *Hydrobaenus majus* sp. nov. (Diptera, Chironomidae, Orthoclaadiinae) from the Russian Far East // Zootaxa. V. 4000, N 2. P. 287–293.
- Makarchenko E.A., Makarchenko M.A., Semenchko A.A. 2015b.** Morphological description and DNA barcoding of *Paralimnophyes dolgikh* sp.n. (Diptera, Chironomidae, Orthoclaadiinae) from the Bolshekehtsyrsky Nature Reserve (Khabarovsk Territory, Russian Far East) // Eurasian Entomological Journal. V. 14, N 4. P. 392–396.
- Makarchenko E.A., Makarchenko M.A., Tiunova T.M. 2015c.** A new species of *Symbiocladus* Kieffer, 1925 (Diptera, Chironomidae, Orthoclaadiinae) from the Eastern Palaearctic // European Journal of Environmental Sciences. V. 5, N 1. P. 45–50.
- Makarchenko E. A., Makarchenko M. A. 2016a.** First record of *Nanocladus pubescens* Makarchenko et Makarchenko, 2004 (Diptera: Chironomidae: Orthoclaadiinae) in Amur River Basin (Russian Far East), with description of pupa // Far Eastern Entomologist. N 315. P. 1–6.
- Makarchenko E.A., Makarchenko M.A. 2016b.** Review of the genus *Vivacricotopus* Schnell et Sæther, 1988 (Diptera, Chironomidae, Orthoclaadiinae), with description of *V. nikolaii* sp.n. from the Russian Far East // Eurasian Entomological Journal. V. 15, N 1. P. 78–88. [In Russian].
- Yavorskaya N.M., Makarchenko M.A. 2009.** The first data on chironomid fauna (Diptera, Chironomidae) of the Bolshekehtsyrsky Nature Reserve (Khabarovsk Territory) // Eurasian Entomological Journal. V. 8, supplement 1. P. 93–96. [In Russian].
- Yavorskaya N.M., Orel O.V., Makarchenko M.A., Makarchenko E.A. 2016.** Chironomid fauna (Diptera, Chironomidae) of the Bolonsky Nature Reserve (Khabarovsk Territory) // Eurasian Entomological Journal. V. 15, N 3. P. 201–210. [In Russian].
- Makarchenko E.A., Makarchenko M.A., Semenchko A.A. 2017a.** New or little-known species of *Chaetocladus* s. str. Kieffer, 1911 (Diptera, Chironomidae, Orthoclaadiinae) from the Amur River basin (Russian Far East) // Zootaxa. V. 4247, N 3. P. 313–330.
- Makarchenko E.A., Makarchenko M.A., Semenchko A.A., Veliiev O.A. 2017b.** Morphological description and DNA barcoding of *Hydrobaenus golovinensis* sp. nov. (Diptera, Chironomidae, Orthoclaadiinae) from the Russian Far East // Zootaxa. V. 4286, N 2. P. 277–284.