

The chironomid fauna (Diptera, Chironomidae) of the Komsomolskii Nature Reserve, Khabarovskii Krai, Russia. Part 1. Subfamily Chironominae

Фауна комаров-звонцов (Diptera, Chironomidae) природного заповедника «Комсомольский» (Хабаровский край). Часть 1. Подсемейство Chironominae

O.V. Orel
O.B. Орел

Federal Scientific Center of the East Asia Terrestrial Biodiversity, Far East Branch of the Russian Academy of Sciences, Prosp. 100-letiya Vladivostoka 159, Vladivostok 690022 Russia. E-mail: zorina@biosoil.ru; <https://orcid.org/0000-0001-8924-6856>.

Федеральный научный центр биоразнообразия наземной биоты Восточной Азии ДВО РАН, пр. 100-летия Владивостока 159, Владивосток 690022 Россия.

Key words: Diptera, Chironomidae, fauna, Komsomolskii Nature Reserve, Khabarovskii Krai.

Ключевые слова: Diptera, Chironomidae, фауна, Комсомольский заповедник, Хабаровский край.

Abstract. Data on the Chironominae fauna of the Komsomolskii Nature Reserve are presented in the form of an annotated list of species based on the study of imaginal material. The rivers and reservoirs of the reserve support 57 species of 27 genera and 2 tribes. During this study, 3 new species were discovered from the genera *Demicryptochironomus* Lenz, 1941, *Stenochironomus* Kieffer, 1919 and *Tanytarsus* van der Wulp, 1874, 39 species were reported for the first time for the Komsomolskii Nature Reserve. Most of the 49 identified species (28 or 57 %) have a Palaearctic distribution and 21 species or 43 % have a Holarctic distribution. The greatest diversity of non-biting midges of the subfamily Chironominae was recorded in an unnamed stream on the left bank of the Gorin River — 29 species, in the Gorin River — 23 species, and in the Baturina River — 19 species.

Резюме. Приведены данные по фауне хирономид подсемейства Chironominae природного заповедника «Комсомольский» в виде аннотированного списка, основанного на изучении имагинального материала. Для водотоков и водоёмов заповедника зарегистрировано 57 видов из 27 родов, 2 триб. Обнаружено 3 новых для науки вида из родов *Demicryptochironomus* Lenz, 1941, *Stenochironomus* Kieffer, 1919 и *Tanytarsus* van der Wulp, 1874. Впервые для заповедника «Комсомольский» отмечено 39 видов. По типам распространения, из 49 достоверно определённых до вида хирономид, преобладают 28 палеарктических видов, составляющих 57 % от общего состава. Голарктических видов — 21, что составляет 43 % от общего состава видов. Наибольшее разнообразие комаров-звонцов подсемейства Chironominae зафиксировано в ручье без названия на левом берегу р. Горин — 29 видов, в реках Горин и Батурина по 23 и 19 видов соответственно.

Introduction

The Komsomolskii Nature Reserve, with an area of more than 64 hectares, is located on the southern spurs

of the Pilda-Limurian mountain ranges, which are part of the Lower Amur mountain system, belonging to the Sikhote-Alin region. From the north, the reserve is separated by the peak of Mount Chokkety, from the east by the watershed of the Baturina and Halbinka rivers, from the south by Prokop Bay, 100 m from the shore by the water area of the Amur River (15 km across the reserve territory) and the Shargol channel, from the west by the watershed of the Ambarny and Kamenskaya. The main waterway for 40 km is the Gorin River, the valley of which divides the reserve into right-bank and left-bank parts. River valleys are represented by accumulative and accumulative-erosive types of relief. The rivers are fed by snow and rain. The river regime is divided into winter minimum (February–April), spring flood (May), summer low water (June–early July) and summer-autumn flood (August–September) [Azbukina, Cherdantseva, 1989; Kondratyeva, 2010].

Currently, according to available information, in the watercourses of the reserve and controlled territories there are about 100 species from 3 types, 14 orders, 40 families and 45 genera of benthic invertebrates [Vshivkova et al., 2017]. The publication provides only the total number of species discovered but does not provide a complete list of taxa. The first information on the chironomid fauna of the Komsomolskii Nature Reserve was presented only recently in the work of N.M. Yavorskaya and V.V. Bobrovsky [2023], where 91 species and forms were indicated, of which 24 species and forms belonged to the subfamily Chironominae. These data were presented based on the study of larval material. This paper presents the results of a study of the imaginal material of non-biting midges of the subfamily Chironominae of the Komsomolskii Nature Reserve in the form of an annotated list of species with an analysis of their distribution types.

Material and methods

The material for this work was entomological collections of chironomid adults made in the summer of 2021 by N.M. Yavorskaya (Institute of Water and Environmental Problems, Far Eastern Branch of the Russian Academy of Sciences, Khabarovsk) on watercourses and reservoirs of the Komsomolskii Nature Reserve. N.M. Yavorskaya carefully explored such rivers as Gorin, Podi, Bolshaya and Malaya Talandinka, Pimigli, Siutaru, Puilya, Baturina, Khavar, Namek, as well as numerous nameless streams and Lake Zolotoe. The locations for collecting material are indicated in Figure 1 in the article by N.M. Yavorskaya and V.V. Bobrovsky [2023]. The capture of chironomid adults was carried out by «mowing» coastal vegetation with an entomological net and exposure to light, and fixed them in 96 % ethanol. Types of distribution are given according to K.B. Gorodkov [1984] with our additions.

The list of chironomid species (Diptera, Chironomidae) of the subfamily Chironominae collected from the Komsomolskii Nature Reserve in Khabarovskii Krai of Russia is presented in the Appendix (p. 1–4).

The present work is registered in ZooBank (www.zoobank.org) under LSID urn:lsid:zoobank.org:pub:68BF5ADC-66DC-4BCE-BF1E-73B5BB4001FD

Results

The fauna of non-biting midges of the subfamily Chironominae from the Komsomolskii Nature Reserve is represented by 57 species from 27 genera, 2 tribes. On the territory of the reserve we discovered 3 species new to science from the genera *Demicryptochironomus*, *Stenochironomus* and *Tanytarsus*, their descriptions will be published in a separate article. Thirty nine species, *Beckidia connexa* Zorina, 2006, *Cladopelma krusemani* (Goetghebuer, 1935), *C. viridula* Linnaeus, 1767, *Cryptotendipes casuarius* (Townes, 1945), *C. usmaensis* (Pagast, 1931), *Demicryptochironomus* (*Demicryptochironomus*) *evgenii* Zorina, 2004, *D. (D.)* sp., *Dicrotendipes orientalis* Zorina, 2006, *D. pulsus* (Walker, 1856), *Einfeldia pagana* (Meigen, 1838), *Endochironomus stackelbergi* Goetghebuer, 1935, *Glyptotendipes nishidai* Yamamoto, 1995, *Harnischia curtilamellata* (Malloch, 1915), *Kloosia pusilla* (Linnaeus, 1767), *Microtendipes famiefeus* Sasa, 1996, *M. shoukamaki* Sasa, 1989, *Parachironomus biannulatus* (Staeger, 1839), *P. gracilior* (Kieffer, 1918), *P. frequens* (Johannsen, 1905), *P. paradigitalis* Brundin, 1949, *P. parilis* (Walker, 1856), *P. vitiosus* (Goetghebuer, 1921), *Paratendipes nudisquama* (Edwards, 1929), *Polypedilum* (*Pentapedilum*) *sordens* (van der Wulp, 1874), *P. (P.) tritum* (Walker, 1856), *P. (P.) albicorne* (Meigen, 1838), *P. (P.) tamanigrum* Sasa, 1983, *P. (Uresipedilum)* *cultellatum* Goetghebuer, 1931, *P. (U.) paraviceps* Niitsuma, 1992, *Robackia demijerea* (Kruseman, 1933), *Robackia lukini* Orel, 2018, *Saetheria reissi* Jackson, 1977, *Stenochironomus* sp.,

S. gibbus (Fabricius, 1794), *S. nubilipennis* Yamamoto, 1981, *S. pannus* Borkent, 1984, *Synendotendipes lepidus* (Meigen, 1830), *Cladotanytarsus saetheria* Gilka, 2001, *Rheotanytarsus fluminis* Kawai, Sasa, 1985, *Tanytarsus brundini* Lindeberg, 1963, *T. volgensis* Miseiko, 1967, *T. gr. norvegicus*, and *Zavrelia elenae* Zorina, 2008, are registered for the Komsomolskii Nature Reserve for the first time.

A number of unidentified adult male species from the genera *Chironomus* Meigen, 1803, *Cryptochironomus* Kieffer, 1918 and *Glyptotendipes* Kieffer, 1913 listed above will be identified in the future using DNA analysis.

According to the types of distribution, out of 49 reliably determined to the species of chironomids, Palearctic species predominate, of which 28 or 57 %. Of these, 9 species belong to the Palearctic trans-Eurasian polydisjunctive, 8 to the eastern Palearctic continental-island, 8 to the eastern Palearctic continental, 2 to the Palearctic temperate and 1 to the Palearctic amphieurasian type of distribution. Holarctic species accounted for 21 or 43 % of all species.

The greatest diversity of non-biting midges of the subfamily Chironominae was recorded in an unnamed stream on the left bank of the Gorin River (29 species), 23 species in the Gorin River, 19 species in the Baturina River. Fewer species of chironomids were found in the Namek and Puilya rivers (16 species), an unnamed stream in the area of Cape 3rd Byk (15 species), in the Bolshaya Talandinka and Khavar rivers (14 species each), and Siutaru (11 species).

Acknowledgements

The author is deeply grateful to N.M. Yavorskaya (Institute of Water and Environmental Problems, Far Eastern Branch of the Russian Academy of Sciences, Khabarovsk) for the opportunity to study the material she collected. The research was carried out within the state assignment of Ministry of Science and Higher Education of the Russian Federation (theme No. 124012400285-7).

References

- Azbukina Z.M., Cherdantseva V.Ya. 1989. Fungi, lichens, algae and bryophytes of the Komsomolskii Nature Reserve (Khabarovskii Krai). Vladivostok: Far Eastern Branch of the USSR Academy of Sciences. 144 p. [In Russian].
- Gorodkov K.B. 1984. [Types of habitats of insects in the tundra and forest zones of the European part of the USSR.] Leningrad: Nauka. P.3–20. [In Russian].
- Kondratyeva E.V. 2010. [Towards conservation work.] Komsomolsk-na-Amure: Priamurye. 208 p. [In Russian].
- Vshivkova T.S., Kuberskaya O.V., Kondratyeva E.V. 2017. [Preliminary information on the hydrofauna of the Komsomolskii Nature Reserve.] // Frisman E.Ya. (Ed.): [XII Far Eastern Conference on Nature Reserves]. Birobidzhan: IKARP FEB RAS. P.82–83. [In Russian].
- Yavorskaya N.M., Bobrovsky V.V. 2023. Taxonomic composition of benthic invertebrates of the Komsomolskii Nature Reserve watercourses (Khabarovsk Region) // Amurian Zoological Journal. Vol.XV. No.3. P.657–678. [In Russian]. <https://www.doi.org/10.33910/2686-9519-2023-15-3-657-678>

Appendix to the article: O.V. Orel. The chironomid fauna (Diptera, Chironomidae) of the Komsomolskii Nature Reserve, Khabarovskii Krai, Russia. Part 1. Subfamily Chironominae (Euroasian Entomological Journal. 2025. Vol.24. No.1. P.10–11).

Приложение к статье: О.В. Орел. Фауна комаров-звонцов (Diptera, Chironomidae) природного заповедника «Комсомольский» (Хабаровский край). Часть 1. Подсемейство Chironominae (Евразийский энтомологический журнал. 2025. Т.24. Вып.1. С. 10–11).

An annotated list

Species registered for the reserve for the first time are marked with an asterisk*.

Виды, впервые зарегистрированные для заповедника, отмечены звездочкой*.

Chironomidae: Chironominae: Chironomini

**Beckidia connexa* Zorina, 2006

Material. Gorin river basin: 4♂♂, Namek River, 13.VII.2021; 10♂♂, Gorin River in the area of the Bichi cordon, 13.VII.2021.

Distribution. Eastern Palearctic continental.

Chironomus (Chironomus) spp.

Material. Gorin river basin: 1♂, right bank of the Gorin River, Bolshaya Talandinka River, 04.VII.2021; 4♂♂, Siutaru River 05.VII.2021; 3♂♂, unnamed stream, 07.VII.2021; 1♂, left bank of the Gorin River, unnamed stream in the area of Cape 3rd Byk, 08.VII.2021; 1♂, Puylya River, 09.VII.2021; 2♂♂, left bank of the Gorin River, Cape 1st Byk, 10.VII.2021; 1♂, Baturina River (mouth), 10.VII.2021; 3♂♂, Baturina River 8 km from the mouth, 11.VII.2021.

Chironomus (Lobochironomus) sp.

Material. Gorin river basin: 25♂♂, unnamed stream, 7.VII.2021; 1♂, left bank of the Gorin River, unnamed stream in the area of Cape 3rd Byk, 8.VII.2021; 2♂♂, Puylya River, 09.VII.2021.

**Cladopelma krusemani* (Goetghebuer, 1935)

Material. Gorin river basin: 3♂♂, Namek River, 13.VII.2021.

Distribution. Palearctic amphip-Eurasian.

**Cladopelma viridula* Linnaeus, 1767

Material. Gorin river basin: 3♂♂, Namek River, 13.VII.2021; 1♂, Gorin River in the area of the Bichi cordon, 13.VII.2021.

Distribution. Widespread Holarctic.

Cryptochironomus (Cryptochironomus) sp.

Material. Gorin river basin: 3♂♂, unnamed stream, 7.VII.2021; 1♂, Namek River, 13.VII.2021.

**Cryptotendipes casuarius* (Townes, 1945)

Material. Gorin river basin: 5♂♂, right bank of the Gorin River, unnamed stream (opposite the island), 3.VII.2021; 1♂, left bank of the Gorin River, Cape 1st Byk, 10.VII.2021; 3♂♂, Gorin River in the area of the Bichi cordon, 13.VII.2021.

Distribution. Widespread Holarctic.

**Cryptotendipes usmaensis* (Pagast, 1931)

Material. Gorin river basin: 5♂♂, Gorin River in the area of the Bichi cordon, 13.VII.2021.

Distribution. Palaearctic trans-Eurasian polydisjunctive.

**Demicryptochironomus (Demicryptochironomus) evgenii* Zorina, 2004

Material. 1♂, Amur river basin, Gorin River (near Lake Zolotoe), 3.VII.2021; Gorin river basin: 3♂♂, unnamed stream, 7.VII.2021; 1♂, Khavar River, 12.VII.2021.

Distribution. Eastern Palaearctic continental.

**Demicryptochironomus (Demicryptochironomus) sp.*

Material. Gorin river basin: 3♂♂, Namek River, 13.VII.2021.

Remarks. The species is apparently new to science and its description will be published in a separate article.

**Dicrotendipes orientalis* Zorina, 2006

Material. Gorin river basin: 5♂♂, Khavar River, 12.VII.2021.

Distribution. Eastern Palearctic continental.

**Dicrotendipes pulsus* (Walker, 1856)

Material. Gorin river basin: 2♂♂, Podi River, 2.VII.2021; 1♂, tributary of the Khankuka River, unnamed stream, 6.VII.2021; 1♂, unnamed stream, 7.VII.2021; 4♂♂, Puylya River, 9.VII.2021; 1♂, left bank of the Gorin River, Cape 1st Byk, 10.VII.2021; 6♂♂, Baturina River (mouth), 10.VII.2021; 1♂♂, left bank of the Gorin River, Cape 1st Byk, 10.VII.2021; 8♂♂, Baturina River about 8 km above the mouth, 11.VII.2021; 15♂♂, Khavar River, 12.VII.2021; 18♂♂, Namek River, 13.VII.2021; 5♂♂, Gorin River in the area of the Bichi cordon, 13.VII.2021; 7♂♂, Kamenskaya river basin: unnamed stream in the area of the Kamennaya Pad cordon, 14.VII.2021.

Distribution. Holarctic.

**Einfeldia pagana* (Meigen, 1838)

Material. Amur river basin: 1♂♂, Gorin River about 8 km above the mouth, 3.VII.2021; Gorin river basin: 1♂, unnamed stream, 7.VII.2021; 3♂♂, left bank of the Gorin River, unnamed stream in the area of Cape 3rd Byk, 08.VII.2021; 1♂, Khavar River, 12.VII.2021; Kamenskaya river basin: 2♂♂, unnamed stream in the area of the Kamennaya Pad cordon, 14.VII.2021.

Distribution. Holarctic.

**Endochironomus stackelbergi* Goetghebuer, 1935

Material. Gorin river basin: 1♂, Pimigli River, 5.VII.2021; 2♂♂, Siutaru River, 5.VII.2021; 1♂, right bank of the Gorin River, tributary of the Khankuka River, unnamed stream, 06.VII.2021; 15♂♂, unnamed stream, 7.VII.2021; 2♂♂, left bank of the Gorin River, unnamed stream in the area of Cape 3rd Byk, 08.VII.2021; 2♂♂, Puylya River, 09.VII.2021; 30♂♂, Baturina River (mouth), 10.VII.2021; 18♂♂, Baturina River 8 km above the mouth, 11.VII.2021; 15♂♂, Khavar River, 12.VII.2021; 4♂♂, Namek River, 13.VII.2021; Kamenskaya river basin: 25♂♂, unnamed stream in the area of the Kamennaya Pad cordon, 14.VII.2021.

Distribution. Palaearctic trans-Eurasian polydisjunctive.

**Glyptotendipes nishidai* Yamamoto, 1995

Material. Gorin river basin: 1♂, Namek River, 13.VII.2021; 1♂, Gorin River in the area of the Bichi cordon, 13.VII.2021. 8♂♂, Baturina River 8 km above the mouth, 11.VII.2021.

Distribution. Eastern Palearctic continental-island.

Glyptotendipes sp.

Material. Amur river basin: 1♂, Gorin River above the mouth of the Bolshaya Talandinka River, 03.VII.2021; 1♂, Gorin River near Lake Zolotoe, 03.VII.2021; Gorin river basin: 2♂♂, unnamed stream, 07.VII.2021; 1♂, left bank of the Gorin River, unnamed stream in the area of Cape 3rd Byk, 08.VII.2021; 2♂♂, Puylya River, 09.VII.2021; 13♂♂, Baturina River 8 km above the mouth, 10–11.VII.2021; 25♂♂, left bank of the Gorin River, Cape 1st Byk, 10.VII.2021; 3♂♂, Khavar River, 12.VII.2021; 15♂♂, Namek River, 13.VII.2021; 2♂♂, Gorin River in the area of the Bichi cordon, 13.VII.2021.

**Harnischia curtilamellata* (Malloch, 1915)

Material. Gorin river basin: 1♂, unnamed stream, 07.VII.2021; 1♂, Baturina River 8 km above the mouth, 10.VII.2021; 2♂♂, left bank of the Gorin River, Cape 1st Byk, 10.VII.2021; 1♂, Gorin River in the area of the Bichi cordon, 13.VII.2021.

Distribution. Holarctic.

**Kloosia pusilla* (Linnaeus, 1767)

Material. Gorin river basin: 1♂, Gorin River in the area of the Bichi cordon, 13.VII.2021.

Distribution. Palearctic trans-Eurasian polydisjunctive.

**Microtendipes famiefus* Sasa, 1996

Material. Amur river basin: 1♂, right bank of the Gorin River, Bolshaya Talandinka River, 04.VII.2021.

Distribution. Eastern Palearctic continental-island.

**Microtendipes shoukamaki* Sasa, 1989

Material. Gorin river basin: 2♂♂, right bank of the Gorin River, unnamed stream (opposite the island), 03.VII.2021; 1♂, right bank of the Gorin River, unnamed stream (overgrown), 04.VII.2021; 2♂♂, unnamed stream, 07.VII.2021.

Distribution. Eastern Palearctic continental-island.

**Parachironomus biannulatus* (Staeger, 1839)

Material. Gorin river basin: 1♂, Gorin River in the area of the Bichi cordon, 13.VII.2021.

Distribution. Palearctic trans-Eurasian polydisjunctive.

**Parachironomus gracilior* (Kieffer, 1918)

Material. Gorin river basin: 1♂, unnamed stream, 07.VII.2021.

Distribution. Palearctic temperate.

**Parachironomus frequens* (Johannsen, 1905)

Material. Gorin river basin: 6♂, Baturina River 8 km above the mouth, 10–11.VII.2021; 4♂♂, left bank of the Gorin River, Cape 1st Byk, 10.VII.2021; 2♂♂, Khavar River, 12.VII.2021; 5♂♂, Gorin River in the area of the Bichi cordon, 13.VII.2021.

Distribution. Holarctic.

**Parachironomus paradigitalis* Brundin, 1949

Material. Gorin river basin: 2♂♂, unnamed stream, 07.VII.2021.

Distribution. Palearctic trans-Eurasian polydisjunctive.

**Parachironomus parilis* (Walker, 1856)

Material. Gorin river basin: 1♂, right bank of the Gorin River, Bolshaya Talandinka River, 04.VII.2021; 20♂♂, unnamed stream, 7.VII.2021; 2♂♂, left bank of the Gorin River, unnamed stream in the area of Cape 3rd Byk, 08.VII.2021; 3♂♂, Puylya River, 9.VII.2021; 8♂♂, Baturina River 8 km above the mouth, 10–11.VII.2021; 5♂♂, Khavar River, 12.VII.2021; 25♂♂, Namek River, 13.VII.2021; 2♂♂, Gorin River in the area of the Bichi cordon, 13.VII.2021; **Kamenskaya river basin:** 7♂♂, unnamed stream in the area of the Kamennaya Pad cordon, 14.VII.2021.

Distribution. Holarctic.

**Parachironomus vitiosus* (Goetghebuer, 1921)

Material. Gorin river basin: 5♂♂, Baturina River 8 km above the mouth, 10–11.VII.2021; 1♂, Khavar River, 12.VII.2021; 1♂, Namek River, 13.VII.2021.

Distribution. Palearctic temperate.

Paralauterborniella nigrohalteralis (Malloch, 1915)

Material. Gorin river basin: 1♂, left bank of the Gorin River, unnamed stream (spring), 03.VII.2021; 3♂♂, right bank of the Gorin River, unnamed stream (opposite the island), 3.VII.2021; 3♂♂, Gorin River near the mouth of the Bolshaya Talandinka River, 4.VII.2021; 1♂, Siutaru River,

5.VII.2021; 1♂, unnamed stream (spring), 6.VII.2021; 1♂, unnamed stream, 7.VII.2021; 1♂, left bank of the Gorin River, unnamed stream in the area of Cape 3rd Byk, 8.VII.2021; 3♂♂, Puylya River, 9.VII.2021; 1♂, Baturina River (mouth), 10.VII.2021; 4♂♂, left bank of the Gorin River, Cape 1st Byk, 10.VII.2021; 10♂♂, Namek River, 13.VII.2021; 10♂♂, Gorin River in the area of the Bichi cordon, 13.VII.2021. **Amur river basin:** 1♂, Gorin River near Lake Zolotoe, 03.VII.2021;

Distribution. Holarctic.

**Paratendipes nudisquama* (Edwards, 1929)

Material. Amur river basin: 4♂♂, right bank of the Gorin River, channel of Lake Zolotoe, 02.VII.2021.

Distribution. Palearctic trans-Eurasian polydisjunctive.

Phaenopsectra flavipes (Meigen, 1818)

Material. Gorin river basin: 15♂♂, left bank of the Gorin River, Podi River, 2.VII.2021; 1♂, left bank of the Gorin River, unnamed stream (spring), 3.VII.2021; 1♂, right bank of the Gorin River, Bolshaya Talandinka River, 4.VII.2021; 1♂, Siutaru River, 05.VII.2021; 10♂♂, unnamed stream, 7.VII.2021; 1♂♂, left bank of the Gorin River, unnamed stream in the area of Cape 3rd Byk, 08.VII.2021; 3♂♂, Puylya River, 9.VII.2021; 6♂♂, Baturina River 8 km above the mouth, 10.VII.2021; 6♂♂, Khavar River, 12.VII.2021.

Distribution. Holarctic.

**Polypedium (Pentapedium) sordens*
(van der Wulp, 1874)

Material. Gorin river basin: 1♂, unnamed stream, 7.VII.2021; 1♂, left bank of the Gorin River, unnamed stream in the area of Cape 3rd Byk, 8.VII.2021; 2♂♂, left bank of the Gorin River, Cape 1st Byk, 10.VII.2021; 3♂♂, Baturina River 8 km above the mouth, 11.VII.2021; 5♂♂, Gorin River in the area of the Bichi cordon, 13.VII.2021.

Distribution. Holarctic.

**Polypedium (Pentapedium) tritum* (Walker, 1856)

Material. Gorin river basin: 3♂♂, left bank of the Gorin River, Podi River, 2.VII.2021.

Distribution. Holarctic.

**Polypedium (Polypedium) albicorne*
(Meigen, 1838)

Material. Gorin river basin: 2♂♂, Baturina River 8 km above the mouth, 11.VII.2021.

Distribution. Holarctic.

Polypedium (Pentapedium) pedestre (Meigen, 1830)

Material. Gorin river basin: 6♂♂, Siutaru River, 5.VII.2021; 3♂♂, unnamed stream, 7.VII.2021; 1♂, left bank of the Gorin River, unnamed stream in the area of Cape 3rd Byk, 8.VII.2021; 1♂, Baturina River 8 km above the mouth, 11.VII.2021.

Distribution. Holarctic.

**Polypedium (P.) tamanigrum* Sasa, 1983

Material. Gorin river basin: 2♂♂, left bank of the Gorin River, Podi River, 2.VII.2021.

Distribution. Eastern Palearctic continental-island.

Polypedium (Polypedium) sp.

Material. Amur river basin: 1♂, right bank of the Gorin River, channel of Lake Zolotoe, 02.VII.2021.

Polypedium (Tripodura) acifer Townes, 1945

Material. Gorin river basin: 1♂, left bank of the Gorin River, Podi River, 2.VII.2021; 1♂, left bank of the Gorin River, unnamed stream (spring), 3.VII.2021; 2♂♂, Siutaru River, 5.VII.2021; 5♂♂, unnamed stream, 7.VII.2021; 3♂♂, left bank of the Gorin River, unnamed stream in the area of Cape 3rd Byk, 8.VII.2021.

Distribution. Holarctic.

The chironomid fauna of the Komsomolskii Nature Reserve, Khabarovskii Krai, Russia.
Part 1. Subfamily Chironominae

Polypedilum (Tripodura) scalaenum (Schränk, 1803)

Material. Amur river basin: 2♂♂, right bank of the Gorin River, channel of Lake Zolotoe, 2.VII.2021; Gorin river basin: 3♂♂, left bank of the Gorin River, unnamed stream (spring), 03.VII.2021; 8♂♂, right bank of the Gorin River, unnamed stream (opposite the island), 3.VII.2021; 1♂, right bank of the Gorin River, Bolshaya Talandinka River, 04.VII.2021; 2♂♂, right bank of the Gorin River, unnamed stream 3 (overgrown), 4.VII.2021; 2♂♂, Siutaru River, 5.VII.2021; 5♂♂, unnamed stream, 7.VII.2021; 5♂♂, left bank of the Gorin River, unnamed stream in the area of Cape 3rd Byk, 8.VII.2021; 1♂, Puylya River, 09.VII.2021; 1♂, Baturina River (mouth), 10.VII.2021; 1♂, Gorin River in the area of the Bichi cordon, 13.VII.2021.

Distribution. Holarctic.

**Polypedilum (Uresipedium) cultellatum*
Goetghebuer, 1931

Material. Gorin river basin: 10♂♂, left bank of the Gorin River, unnamed stream (spring), 3.VII.2021; 1♂, right bank of the Gorin River, Bolshaya Talandinka River, 4.VII.2021; 3♂♂, Siutaru River, 5.VII.2021; 1♂, unnamed stream (spring), 06.VII.2021; 10♂♂, unnamed stream, 7.VII.2021; 3♂♂, left bank of the Gorin River, unnamed stream in the area of Cape 3rd Byk, 8.VII.2021; 2♂♂, Puylya River, 9.VII.2021; 3♂♂, Baturina River (mouth), 10.VII.2021; 1♂, left bank of the Gorin River, Cape 1st Byk, 10.VII.2021; 1♂, Baturina River 8 km above the mouth, 11.VII.2021; 3♂♂, Khavar River, 12.VII.2021; 1♂, Namek River, 13.VII.2021; Kamenskaya river basin: 2♂♂, unnamed stream in the area of the Kamennaya Pad cordon, 14.VII.2021.

Distribution. Holarctic.

**Polypedilum (Uresipedium) paraviceps*
Niitsuma, 1992

Material. Gorin river basin: 1♂, left bank of the Gorin River, unnamed stream (spring), 3.VII.2021; 1♂, right bank of the Gorin River, Bolshaya Talandinka River, 4.VII.2021.

Distribution. Eastern Palearctic continental-island.

**Robackia demeijerea* (Kruseman, 1933)

Material. Gorin river basin: 3♂♂, Namek River, 13.VII.2021.

Distribution. Holarctic.

**Robackia lukini* Orel, 2018

Material. Gorin river basin: 1♂, Namek River, 13.VII.2021.

Distribution. Eastern Palearctic continental.

**Saetheria reissi* Jackson, 1977

Material. Gorin river basin: 1♂, Gorin River in the area of the Bichi cordon, 13.VII.2021.

Distribution. Palearctic trans-Eurasian polydisjunctive.

**Stenochironomus gibbus*
(Fabricius, 1794)

Material. Gorin river basin: 1♂, unnamed stream, 7.VII.2021; 2♂♂, Puylya River, 9.VII.2021; 4♂♂, Baturina River 8 km above the mouth, 11.VII.2021.

Distribution. Palearctic trans-Eurasian polydisjunctive.

**Stenochironomus nubilipennis* Yamamoto, 1981

Material. Gorin river basin: 1♂, right bank of the Gorin River, Bolshaya Talandinka River, 4.VII.2021; 2♂♂, right bank of the Gorin River, unnamed stream 3 (overgrown), 4.VII.2021; 2♂♂, Malaya Talandinka River, 5.VII.2021; 1♂, Puylya River, 9.VII.2021; 1♂, Khavar River, 12.VII.2021; Kamenskaya river basin: 2♂♂, unnamed stream in the area of the Kamennaya Pad cordon, 14.VII.2021.

Distribution. Eastern Palearctic continental-island species.

**Stenochironomus pannus* Borkent, 1984

Material. Gorin river basin: 2♂♂, right bank of the Gorin River, unnamed stream (opposite the island), 3.VII.2021; 4♂♂, right bank of the

Gorin River, Bolshaya Talandinka River, 4.VII.2021; 1♂, unnamed stream, 7.VII.2021; 12♂♂, Baturina River 8 km above the mouth, 11.VII.2021.

Distribution. Eastern Palearctic continental-island species.

**Stenochironomus* sp.

Material. Gorin river basin: 1♂, unnamed stream, 07.VII.2021; 2♂♂, right bank of the Gorin River, Bolshaya Talandinka River, 04.VII.2021.

Remarks. The species is apparently new to science and its description will be published in a separate article.

**Synendotendipes lepidus* (Meigen, 1830)

Material. Gorin river basin: 2♂♂, left bank of the Gorin River, Podi River, 2.VII.2021; 1♂, left bank of the Gorin River, unnamed stream (spring), 3.VII.2021; 1♂, right bank of the Gorin River, unnamed stream 3 (overgrown), 4.VII.2021; 3♂♂, Siutaru River, 5.VII.2021; 50♂, unnamed stream, 7.VII.2021; 30♂♂, left bank of the Gorin River, unnamed stream in the area of Cape 3rd Byk, 8.VII.2021; 1♂, Puylya River, 9.VII.2021; 2♂♂, left bank of the Gorin River, Cape 1st Byk, 10.VII.2021.

Distribution. Palearctic trans-Eurasian polydisjunctive.

Tanytarsini

**Cladotanytarsus saetheria* Gilka, 2001

Material. Gorin river basin: 3♂♂, right bank of the Gorin River, unnamed stream (opposite the island), 3.VII.2021; 1♂, right bank of the Gorin River, Bolshaya Talandinka River, 4.VII.2021; 5♂♂, right bank of the Gorin River, unnamed stream 3 (overgrown), 4.VII.2021; 9♂, unnamed stream, 7.VII.2021.

Distribution. Eastern Palearctic continental.

Constempellina tokunagai Zorina, 2013

Material. Gorin river basin: 1♂, left bank of the Gorin River, Podi River, 02.VII.2021.

Distribution. Eastern Palearctic continental.

**Rheotanytarsus fluminis* Kawai, Sasa, 1985

Material. Gorin river basin: 1♂, left bank of the Gorin River, Podi River, 2.VII.2021; 20♂♂, left bank of the Gorin River, unnamed stream (spring), 3.VII.2021; 20♂♂, right bank of the Gorin River, unnamed stream (opposite the island), 3.VII.2021; 1♂, Gorin River near the mouth of the Bolshaya Talandinka River, 04.VII.2021; 14♂♂, right bank of the Gorin River, unnamed stream 3 (overgrown), 4.VII.2021; 10♂♂, Pimigli River, 5.VII.2021; 10♂♂, Siutaru River, 5.VII.2021; 1♂, unnamed stream, 7.VII.2021; 2♂♂, Puylya River, 9.VII.2021.

Distribution. Eastern Palearctic continental-island.

Rheotanytarsus pentapoda (Kieffer, 1909)

Material. Gorin river basin: 25♂♂, right bank of the Gorin River, Bolshaya Talandinka River, 4.VII.2021; 3♂♂, right bank of the Gorin River, unnamed stream 3 (overgrown), 04.VII.2021; 3♂♂, Pimigli River, 5.VII.2021; 8♂♂, left bank of the Gorin River, unnamed stream in the area of Cape 3rd Byk, 08.VII.2021; 1♂, Khavar River, 12.07.2021. Khankuka river basin: 1♂, right bank of the Gorin River, unnamed stream, 06.VII.2021.

Distribution. Holarctic.

Tanytarsus agg. *lestagei*

Material. Gorin river basin: 6♂♂, unnamed stream, 7.VII.2021; 2♂♂, Puylya River, 9.VII.2021; 1♂, Baturina River 8 km above the mouth, 11.VII.2021; 2♂♂, Khavar River, 12.VII.2021; 6♂♂, Namek River, 13.VII.2021; Kamenskaya river basin: 2♂♂, unnamed stream in the area of the Kamennaya Pad cordon, 14.VII.2021.

**Tanytarsus brundini* Lindeberg, 1963

Material. Gorin river basin: 20♂♂, right bank of the Gorin River, Bolshaya Talandinka River, 4.VII.2021; 1♂, right bank of the Gorin River, unnamed stream 3 (overgrown), 4.VII.2021; 10♂♂, Pimigli River, 5.VII.2021.

Distribution. Holarctic.

**Tanytarsus volgensis* Miseiko, 1967

Material. Gorin river basin: 1♂, left bank of the Gorin River, an unnamed stream in the area of Cape 3rd Byk, 08.VII.2021.

Distribution. Holarctic.

**Tanytarsus gr. norvegicus*

Material. Gorin river basin: 3♂♂, right bank of the Gorin River, unnamed stream 3 (overgrown), 4.VII.2021.

Remarks. The species is apparently new to science and its description will be published in a separate article.

**Zavrelia elenae* Zorina, 2008

Material. Gorin river basin: 3♂♂, left bank of the Gorin River, unnamed stream (spring), 3.VII.2021; 6♂♂, right bank of the Gorin River, unnamed stream (opposite the island), 3.VII.2021; 4♂♂, Gorin River near

the mouth of the Bolshaya Talandinka River, 4.VII.2021; 5♂♂, right bank of the Gorin River, unnamed stream 3 (overgrown), 4.VII.2021; 15♂♂, Pimigli River, 5.VII.2021; 2♂♂, Siutaru River, 5.VII.2021; 8♂♂, Malaya Talandinka River, 5.VII.2021; 10♂♂, unnamed stream, 7.VII.2021; 15♂♂, left bank of the Gorin River, unnamed stream in the area of Cape 3rd Byk, 8.VII.2021; 5♂♂, Puylya River, 09.VII.2021; **Kamenskaya river basin:** 1♂, unnamed stream in the area of the Kamennaya Pad cordon, 14.VII.2021.

Distribution. Eastern Palearctic continental.

Zavrelia pentatoma Kieffer, 1913

Material. Amur river basin: 2♂♂, right bank of the Gorin River, channel of Lake Zolotoe, 2.VII.2021; **Gorin river basin:** 5♂♂, right bank of the Gorin River, Bolshaya Talandinka River, 4.VII.2021.

Distribution. Holarctic.