

New records of *Nepomorpha* and *Gerromorpha* from the Far East (Heteroptera)

E.V. Kanyukova

Kanyukova, E.V. 2001. New records of *Nepomorpha* and *Gerromorpha* from the Far East (Heteroptera). *Zoosystematica Rossica*, 9(1), 2000: 155-156.

New records of four species from Russia, two from Primorsk Terr., one from Sakhalin, and one from Korea are given.

E.V. Kanyukova, *Institute of Biology and Soil Sciences, pr. 100-letiya Vladivostoka 159, Vladivostok 690022, Russia.*

Kanyukova (1988) summarized the data on the aquatic Heteroptera of the Russian Far East. Later on, new data on the distribution of species were obtained.

not recorded from E Siberia; widely distributed in S Palaearctic, from N Africa and W Europe to Mongolia and NW China, also in tropical Africa and India (Jansson, 1995).

Family CORIXIDAE

Cymatia apparens (Distant, 1911). New record for Russia: 1 ♂, Primorsk Terr., 30 km W of Ussuriysk, Krounovka River, in a small tributary with smooth flow and abundant vegetation, 15.VIII.1999 (Kanyukova). – Distribution: Russia (Primorsk Terr.), Northern and Central China, Korea, Japan, Oriental Region (Jansson, 1995).

Sigara (Vermicorixa) lateralis (Leach, 1817). New record for the Primorsk Terr.: 1 ♀, Khasan Distr., Vityaz', at light, 4.VIII. 1982 (Kerzhner, coll. Zool. Inst. St.Petersburg); 1 ♀, Spassk Distr., Novosel'skoe, at light, 8.VIII.1986 (Kanyukova); more than 200 specimens, S of Pos'et, Pempzovaya Bay, on sea shore in stony vats formerly used for fish salting and filled with salt water, 18.VIII.1984 (Kanyukova). Two females were collected from Primorsk Terr. before 1988, but the species was not included in the keys by Kanyukova (1988) because of some doubts concerning identification. The species is halophilous, in W Siberia it was collected in a salty lake (Kanyukova, 1973). Near Pempzovaya Bay, it was collected together with the crustacean *Artemia salina* and waterstriders *Aquarius paludum* (F.), *Gerris angulatus* Lundbl., *G. babai* Miy. and *Microvelia buenoi* Drake. – Distribution: in Russia mostly south of 50°N,

Family MESOVELIIDAE

Mesovelvia egorovi Kanyukova, 1981. First record from the continental part of Russian Far East: 20 ♂, 23 ♀, 17 larvae of last instars, Primorsk Terr., Vostok Bay, estuary of Volchanka River, 14.VIII.1998 (Egorov). The species was described from S Sakhalin, where it was found near Starodubskoe on the surface of a thin water layer above the covered with silt shore of Lebyazh'e Lake. This lake is connected by a channel with the estuary of the river Naiba and filled periodically by sea water during tide. In Primorsk Terr., the species was collected in a similar habitat: on the surface of a thin water layer above the silt-covered bank between cast ashore algae; it is clear that the sea water reached this area during tide. – Distribution: Russia (Primorsk Terr., Sakhalin), S Korea (Lee et al., 1994), Japan (Miyamoto & Hayashi, 1998).

Family HEBRIDAE

Hebrus pilosellus Kanyukova, 1997. First record from Korea: 1 ♀, S Korea, Isl. Kanghwa, v. Hwangchong-ri, brooklet, in company with *H. nipponicus* Horv., 28.V.1997 (Egorov). – Distribution: Russia (Primorsk Terr.), Korea.

Family VELIIDAE

Xiphovelia glauca Esaki & Miyamoto, 1959. The genus and species are recorded from Russia for the first time: 7 ♂, 13 ♀, 1 larva, Primorsk Terr., 30 km S of Ussuriysk, Krounovka River, 17.VIII.1999 (Kanyukova). The species was collected from a shallow part of the river with smooth flow and percolating cold spring water on shady places between *Scirpus* stems. An imago and a larva of *Hydrometra gracilentata* Horv. were collected in the same place. *Microvelia buenoi* Drake and *M. reticulata* (Burm.) were abundant hereabout on warmer, sunny places. – Distribution: Russia (Primorsk Terr.), Taiwan.

Family GERRIDAE

Subfamily GERRINAE

Gerris (Gerris) lobatus Andersen & Chen, 1993. First record from Russia: 1 ♀, Primorsk Terr., Razdol'naya River near railway station Razdol'naya, in a channel with stagnant water and abundant vegetation, 29.VII.1998 (Kanyukova). – Distribution: Russia (Primorsk Terr.), SE China (Yunnan, Tibet – Andersen & Chen, 1993).

Gerris (Gerriselloides) brachynotus Horváth, 1907. The species is recorded for the first time from Sakhalin: 1 ♀, N Sakhalin, Okha Distr., Sabo, near Piltun Bay (A.M. Basarukin). – Distribution: Russia (E Siberia: Chita Prov.; Far East: Amur Prov., Sakhalin), N Mongolia (Kanyukova, 1976). The species inhabits peat moss bogs.

Subfamily PTILOMERINAE

Rhyacobates chinensis Hungerford & Matsuda, 1959. The genus and species are recorded from Russia for the first time: 82 ♂, 72 ♀, Primorsk Terr., 30 km S of Ussuriysk, Krounovka River, 14-17.VIII.1999 (Kanyukova). The waterstriders cling together in groups of several dozens of specimens on rapid current near the bank. During the four days of observations each group held to its area and returned to it after the insects were frightened off. Throughout the day the waterstriders move swiftly on the current, but sometimes took a rest on stones

(on the side opposite to the current) or sandbars. Numerous copulating pairs were observed. No larvae were found. One dissected female contained 12 large eggs. Feeding (by a small flying insect) was observed only once. – Distribution: Russia (Primorsk Terr.), China, Korea (Andersen & Chen, 1995).

Acknowledgements

I am thankful to A.V. Egorov and A.M. Basarukin for placing material at my disposal, to V.A. Nechaev for help in collecting insects, and to I.M. Kerzhner for consultations.

References

- Andersen, N.M. 1995. Infraorder Gerromorpha Popov, 1971 – semiaquatic bugs. In: B. Aukema & Chr. Rieger (eds). *Catalogue of the Heteroptera of the Palaearctic Region*, 1: 77-114. Netherlands Entomol. Soc.
- Andersen, N.M. & Chen, P.P. 1993. A taxonomic review of the pondskater genus *Gerris* Fabricius in China, with two new species (Hemiptera: Gerridae). *Entomol. scand.*, 24: 147-166.
- Andersen, N.M. & Chen, P.P. 1995. A taxonomic revision of the ptilomerine genus *Rhyacobates* Esaki (Hemiptera: Gerridae) with five new species from China and adjacent countries. *Tijdschr. Entomol.*, 138: 51-67.
- Jansson, A. 1995. Family Corixidae Leach, 1815 – water boatmen In: B. Aukema & Chr. Rieger (eds). *Catalogue of the Heteroptera of the Palaearctic Region*, 1: 26-56. Netherlands Entomol. Soc.
- Kanyukova, E.V. 1973. On the fauna and biology of water bugs (Heteroptera) of Western Siberia. *Entomol. Obozr.*, 52(4): 814-820. (In Russian).
- Kanyukova, E.V. 1976. Aquatic and semiaquatic bugs (Heteroptera) of the Mongolian People's Republic. *Nasekomye Mongolii*, 4: 11-20. (In Russian).
- Kanyukova, E.V. 1982. Water striders (Heteroptera, Gerridae) of the fauna of the USSR. *Trudy zool. Inst. Akad. Nauk SSSR*, 105, (1981): 62-93. (In Russian).
- Kanyukova, E.V. 1988. Infraorders Nepomorpha and Gerromorpha. In: P.A. Lehr (ed.). *Opredelitel' nasekomykh Dal'nego Vostoka SSSR* [Keys to the insects of the USSR Far East], 2: 737-747, 755-760. Leningrad: Nauka. (In Russian).
- Lee, C.E., Miyamoto, S. & Kerzhner, I.M. 1994. Additions and corrections to the list of Korean Heteroptera. *Nature and Life* (Korea), 24(1/2): 1-34.
- Miyamoto, S. & Hayashi, M. 1998. New records of aquatic Heteroptera from Japan. *Jpn. J. syst. Entomol.*, 4(2): 321-323.

Received 24 April 2000