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GERRIDAE AND NEPIDAE (HEMIPTERA: HETEROPTERA) COLLECTED IN VIETNAM BY THE BELARUSIAN-VIETNAMESE EXPEDITIONS

The study of the entomofauna of Vietnam, which belongs to one of the 36 world biodiversity hotspots, during joint Belarusian-Vietnamese expeditions in specially protected natural areas: Ba Be National Park (North Vietnam, Bac Can Province), Phia Oak National Park (North Vietnam, Cao Bang Province), Pu Mat National Park (Central Vietnam, Nghe An Province), U Minh Thuong National Park (South Vietnam, Kien Giang Province), Xuan Lien Nature Reserve (Central Vietnam, Thanh Hoa Province) and the Pu Hoat Nature Reserve (Central Vietnam, Nghe An Province) have allowed us to make a number of finds of true bugs (Hemiptera: Heteroptera) from the families Gerridae and Nepidae of faunal interest. The article is based on the authors' observations of various water bodies (natural watercourses of different sizes and durations, flooded rice paddies, and canals) in April—June 2021 and April—May 2025. A total of 18 species of true bugs were identified, including 16 species from 8 genera and 4 subfamilies of epineustine water striders *sensu stricto* of the Gerridae family, and 2 species from 2 genera and 2 subfamilies of benthic water scorpions in the Nepidae family. Two species of water striders, *Gerris latiabdominis* Miyamoto, 1958 and *Metrocoris ciliates* den Boer, 1965, have been confirmed for the fauna of Vietnam. Most of the collected species have not been previously recorded in the areas under consideration. Recorded for the first time in Bac Kan Province (Northern Vietnam) — 6 species, Ba Be National Park — 6 species; Cao Bang Province (Northern Vietnam) — 1 species, Phi Oak National Park — 2 species; Thanh Hoa Province (Central Vietnam) — 2 species, Xuan Lien Nature Reserve — 2 species; Nghe An Province (Central Vietnam) — 9 species, Pu Mat National Park — 4 species and Pu Hoat Nature Reserve — 8 species; for Kien Giang Province (Southern Vietnam) — 1 species, U Minh Thuong National Park — 1 species.

Key words: Gerridae; Nepidae; Hemiptera; Heteroptera; fauna; Vietnam.

Ref.: 19 titles.

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GERRIDAE И NEPIDAE (HEMIPTERA: HETEROPTERA), СОБРАННЫЕ ВО ВЬЕТНАМЕ БЕЛОРУССКО-ВЬЕТНАМСКИМИ ЭКСПЕДИЦИЯМИ

Изучение энтомофауны Вьетнама, который относится к одному из 36 мировых центров биоразнообразия, в ходе совместной белорусско-вьетнамской экспедиции на особо охраняемых природных территориях — национальных парках Ба Бе (Северный Вьетнам, провинция Баккан), Фиа Оак (Северный Вьетнам, провинция Каобанг), Пу Мат (Центральный Вьетнам, провинция Нгеан), У Минь Тхуонг (Южный Вьетнам, провинция Кьензянг), природных заповедниках Сюань Лянь (Центральный Вьетнам, провинция Тханьхоа) и Пу Хоат (Центральный Вьетнам, провинция Нгеан) — позволило сделать ряд находок настоящих полужесткокрылых насекомых (Hemiptera: Heteroptera) из семейств Gerridae и Nepidae, представляющих фаунистический интерес. Материалом для статьи послужили сборы авторов в различных водных объектах (естественные водотоки различного размера и срока существования, затопленные рисовые чеки и каналы на них) в апреле—июне 2021 года и апреле—мае 2025 года. Всего выявлено 18 видов клопов, 16 видов из 8 родов 4 подсемейств эпинеустонных водомеров *sensu stricto* из семейства Gerridae и 2 вида из 2 родов 2 подсемейств бентосных водяных скорпионов из семейства Nepidae. Для двух видов водомеров (*Gerris latiabdominis* и *Metrocoris ciliates*) подтверждены указания для фауны Вьетнама. Большинство собранных видов ранее не отмечались на рассматриваемых территориях. Впервые указываются для провинции Баккан (Северный Вьетнам) — 6 видов, национального парка Ба Бе — 6 видов, провинции Каобанг (Северный Вьетнам) — 1 вид, национального парка Фиа Оак —

2 вида, провинции Тханьхоа (Центральный Вьетнам) — 2 вида, природного заповедника Сюань Лянь — 2 вида, провинции Нгеан (Центральный Вьетнам) — 9 видов, национального парка Пу Мат — 4 вида, природного заповедника Пу Хоат — 8 видов, провинции Кьензянг (Южный Вьетнам) — 1 вид, национального парка У Минь Тхуонг — 1 вид.

Ключевые слова: Gerridae; Nepidae; Hemiptera; Heteroptera; фауна; Вьетнам.

Библиогр.: 19 назв.

Introduction. Over the past two decades, joint Belarusian-Vietnamese research in the field of entomology has been increasingly developing, with the participation of specialists from national academies, higher education institutions, and specially protected natural areas, which is quite natural, given the important role of insects in nature and human life. One of the modest results of this cooperation is this work, which to some extent fills in certain gaps in our knowledge about the local heteropteran fauna of the region in question. Besides, the study of the species composition of insets in specially protected natural areas is of great importance for the conservation of biological diversity.

The proposed work considers only representatives of two water-related families of true bugs: the epineustine water striders in the *sensu stricto* of Gerridae and the benthic Nepidae. Materials on the remaining families of aquatic Heteroptera are still being processed and will be published as they become available.

Material and methods. The material for this work was collected by the authors themselves (April—June 2021 and April—May 2025), as well as collections of true bugs collected by colleagues in various years in the protected areas of the Socialist Republic of Vietnam: Ba Be National Park (Bac Kan province, Northern Vietnam), Phia Oac National Park (Cao Bang province, Northern Vietnam), Xuan Lien Nature Reserve (Than Hoa Province, Central Vietnam), Pu Mat National Park and Pu Hoat Nature Reserve (Nghe An province, Central Vietnam), U Minh Thuong National Park (Kien Giang Province, South Vietnam).

The studies were conducted using standard methods widely used in entomology [1; 2]. The route method was the main method for determining the species composition of true bugs.

Insects were collected from the water surface using a standard entomological net. Large species of water striders were selected manually using tweezers, while small species were transferred from the net to a plastic tray with a height of about 5 cm. The specimens were then collected using an exhaustor, which helped to preserve them in the most undamaged condition.

The collection of true hemipterans in the water column was carried out using the standard method with the help of the Balfour-Brown hydrobiological net [3].

The captured insects were preserved both on cotton mattresses and in 70—90 % ethyl alcohol. If necessary, preparations of genitals were made [4]. When determining the material, a binocular microscope “Optica SZO-6” was used.

Results and discussion. As a result of the conducted research, 18 species of Hemiptera (Heteroptera) from the Gerridae family (16 species, all identified) and the Nepidae family (2 species, both identified) were recorded.

The list of species of the suborder of bugs found in the protected areas under consideration is provided below.

Family GERRIDAE

Subfamily GERRINAE Lich, 1815

Aquarius paludum paludum (Fabricius, 1794)

Material examined: N Vietnam, Bac Kan Province, Ba Be National Park, Khang Ninh village, along the shore near Buoc Lom, Nang river, N22°45'57", E105°67'72", h = 145 m, B2, 03.VI.2021. leg. X. L. Truong, 1 winged ♂, 2 winged ♀; C Vietnam, Than Hoa Province, Thuong

Xuan District, Xuan Lien Nature Reserve, at light, 28—30.V.2023. leg. S. V. Saluk, 1 winged ♂; C Vietnam, Nghe An Province, Que Phong District, Dong Van Commune, Pu Hoat Nature Reserve, env. Dong Van station, Nam Pa stream, N19.808040, E105.094112, 03.V.2025. leg. A. O. Lukashuk, 1 winged ♂; S Vietnam, Kien Giang Province, U Minh Thuong National Park, Pond in Ecosystem of Agroforestry — Aquaculture in the Buffer Zone, N9°45'62.8", E105°41'87.2", h = 3 m, 07.XI.2024. leg. X. L. Truong, 2 ♂, 2 ♀.

Distribution. Palaearctic Region. Europe: Albania, Austria, Belgium, Bosnia Hercegovina, Bulgaria, Belarus, Croatia, Czech Republic, Denmark, Estonia, European part of Kazakhstan, European part of Russia, European part of Turkey, Finland, France, Great Britain, Germany, Greece, Hungary, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Moldavia, The Netherland, Norway, Poland, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine. **Asia:** Armenia, Asian part of Kazakhstan, Asian part of Russia, Asian part of Turkey, Azerbaijan, China, Georgia, Iran, Iraq, Israel, Japan, Jordan, Korea, Lebanon, Syria, Taiwan, Tadjikistan, Turkmenistan, Uzbekistan. **Oriental Region:** India, Myanmar, Thailand, Vietnam [8—10]. First record for Provinces: Bac Kan (Ba Be National Park), Than Hoa (Xuan Lien Nature Reserve), Nghe An (Pu Hoat Nature Reserve) and Kien Giang (U Minh Thuong National Park).

Habitats. It prefers large water bodies with stagnant or slow-flowing water and an open water surface. It can also be found in small ponds and streams, including those with fast-flowing water, where it inhabits areas with slow-flowing water [11].

Gerris latiabdominis Miyamoto, 1958

Material examined: N Vietnam, Bac Kan Province, Ba Be National Park, about 14 km W Cho Ra, Nang river, along the banks, N22°45'69", E105°63'09", h = 156 m, B5, 04.VI.2021. leg. X. L. Truong, 1 winged ♂.

Distribution. Palaearctic Region. Asia: Asian part of Russia (Far East), China, Japan, Korea, Taiwan. **Oriental Region:** Vietnam [8; 9; 12]. Second registration in Vietnam. First record for Bac Kan Province and Ba Be National Park.

Habitats. It prefers stagnant or slow-flowing water bodies with macrophytes, including temporary water bodies [11].

Limnogonus fossarum fossarum (Fabricius, 1775)

Material examined: N Vietnam, Cao Bang Province, Phia Oac National Park, Nguyen Binh District, env. Hoai Khao village, streams in the forest, N22°36'38", E105°54'40", h = 879 m, C2, 10.V.2021. leg. X. L. Truong, 1 winged ♀; C Vietnam, Nghe An Province, Que Phong District, Dong Van Commune, Pu Hoat Nature Reserve, about 3 km SW Dong Van station, env. Khun Na village, rice field, canal, N19.785756, E105.078987, 03.V.2025. leg. S. K. Ryndevich and A. O. Lukashuk, 1 winged ♂.

Distribution. Palaearctic Region. Asia: SE China, Japan, Taiwan. **Oriental Region:** India, Indonesia, Laos, Malaysia, Myanmar, Philippines, Singapore, Sri Lanka, Thailand, Vietnam [13]. First record for Cao Bang and Nghe An Provinces, Phia Oac National Park and Pu Hoat Nature Reserve.

Habitats. Records from a wide variety of habitats: lakes, ponds, water tanks, ditches, rice-fields, hot-springs, brackish pools, etc. From sea level to about 1,000 m [13].

Limnogonus nitidus (Mayr, 1865)

Material examined: C Vietnam, Than Hoa Province, Thuong Xuan District, Xuan Lien Nature Reserve, cordon, at light, 29—31.V.2023. leg. S. V. Saluk, 3 winged ♀; C Vietnam, Nghe An Province, Que Phong District, Dong Van Commune, Pu Hoat Nature Reserve, env. Dong Van station, Nam Pa stream, N19.808040, E105.094112, 03.V.2025. leg. A. O. Lukashuk, 1 winged ♂.

Distribution. Oriental Region: India, Indonesia, Malaysia, Maldives, Myanmar, Nepal, Singapore, Sri Lanka, Thailand, Vietnam [13]. First record for Nghe An Province and Than Hoa Province, Xuan Lien and Pu Hoat Nature Reserve.

Habitats. Recorded from temporary pools, rice fields, ponds, etc., from sea level to about 1,000 m [13].

Neogerris parvulus (Stål, 1859)

Material examined: C Vietnam, Nghe An Province, Con Cuong District, Pu Mat National Park, about 3.5 km W Luc Da village, widening of the stream, weak current, rocky-clayey silted bottom, litter, macrophytes, N18.967194, E104.822307, 30.IV.2025. leg. A. O. Lukashuk, 1 winged ♂.

Distribution. Palaearctic Region. Asia: Iran, Oman, SE China, Japan, Taiwan. **Oriental Region:** India, Indonesia, Malaysia, Myanmar, Philippines, Sri Lanka, Thailand, Vietnam. **Australian region:** SW New Guinea, Solomon Isl. [13]. New record for Nghe An Province and Pu Mat National Park.

Habitats. Recorded from different habitats, slow-flowing streams, water-reservoirs, ponds, and temporary pools, from sea level to about 1,500 m [13].

Subfamily EOTRECHINAE Matsuda, 1960

Amemboa brevifasciata Miyamoto, 1967

Material examined: C Vietnam, Nghe An Province, Con Cuong District, Pu Mat National Park, about 20 km SW Con Cuong town, env. Kem waterfall, stream in the forest, N18°58'01,9", E104°49'20,3", h = 249 m, 28.IV.2025. leg. S. K. Ryndevich, 1 wingless ♂, 1 winged ♀, 1 wingless ♀; C Vietnam, Nghe An Province, Con Cuong District, Pu Mat National Park, about 20 km SW Con Cuong town, env. Kem waterfall, a pool at the foot of a waterfall, areas with a slow current, 28.IV.2025. leg. A. O. Lukashuk, 1 winged ♂; C Vietnam, Nghe An Province, Con Cuong District, Pu Mat National Park, about 20 km SW Con Cuong town, env. Kem waterfall, at the checkpoint on the trail to the waterfall, a quiet backwater of a fast flowing stream, muddy bottom, fallen leaves, N18.964258, E104.805099, 30.IV.2025. leg. A. O. Lukashuk, 2 wingless ♂, 1 winged ♀; C Vietnam, Nghe An Province, Que Phong District, Dong Van Commune, Pu Hoat Nature Reserve, about 3 km SW Dong Van station, env. Khun Na village, rice field, canal, N19.785756, E105.078987, 03.V.2025. leg. S. K. Ryndevich and A. O. Lukashuk, 1 wingless ♀; C Vietnam, Nghe An Province, Que Phong District, Pu Hoat Nature Reserve, about 1.5 km NW Xop Co village, a stream flowing out of a swamp, the current is slow, the bottom is muddy, a pelicle of metal on the surface, 04.V.2025. leg. A. O. Lukashuk, 1 wingless ♀.

Distribution. Palaearctic Region. Asia: SE China; **Oriental Region:** Indonesia, Malaysia, Thailand, Vietnam [5]. First record for Nghe An Province, Pu Mat National Park and Pu Hoat Nature Reserve.

Habitats. According to our data, this species prefers open microhabitats with slow currents (including flooded rice fields and canals), and even when it is found in streams, it inhabits small areas with slow currents behind rocks and uneven banks.

Amemboides vasarhelyii (Zettel, 1995)

Material examined: N Vietnam, Bac Kan Province, Ba Be National Park, Puong cave next to Nang river, N22°46'52", E105°65'35", h = 172 m, B3, 04.VI.2021. leg. X. L. Truong, 1 wingless ♂, 1 wingless ♀.

Distribution. Palaearctic Region. Asia: SW China. **Oriental Region:** Vietnam [6; 7]. First record for Bac Kan Province and Ba Be National Park.

Subfamily PTILOMERINAE Bianchi, 1896

Ptilomera hemmingseni Andersen, 1967

Material examined: N Vietnam, Bac Kan Province, Ba Be National Park, Khang Ninh village, along the shore near Buoc Lom, Nang river, N22°45'57", E105°67'72", h = 145 m, B2, 03.VI.2021. leg. X. L. Truong, 1 wingless ♂, 1 wingless ♀; C Vietnam, Nghe An Province, Que Phong District, Dong Van Commune, Pu Hoat Nature Reserve, env. Dong Van station, stream near the road DT541, N19.809031, E105.094435, 07.V.2025. leg. S. K. Ryndevich and A. O. Lukashuk, 1 winged ♀, 2 wingless ♀.

Distribution. Palaearctic Region. Asia: China. **Oriental Region:** Laos, Thailand, Vietnam [15]. First record for Bac Kan and Nghe An Provinces, Ba Be and Pu Hoat National Parks.

Habitats. According to our and literary data, it is found in fast-flowing watercourses [15; 16].

Ptilomera hylactor Breddin, 1903

Material examined: C Vietnam, Nghe An Province, Con Cuong District, Pu Mat National Park, env. Luc Da village, flow, ford, in the stream, N18.971167, E104.860251, 29.IV.2025. leg. A. O. Lukashuk, 2 wingless ♂, 3 wingless ♀.

Distribution. Palaearctic Region. Asia: China. **Oriental Region:** Thailand, Vietnam [15].

Habitats. It lives in fast-flowing streams [15].

Ptilomera tigrina Uhler, 1860

Material examined: N Vietnam, Cao Bang Province, Phia Oac National Park, Nguyen Binh District, env. Hoai Khao village, near Bee cave, streams in the forest, N22°61'04", E105°93'32", h = 899 m, C4, 09.V.2021. leg. X. L. Truong, 6 wingless ♀, 2 larvae; C Vietnam, Nghe An Province, Con Cuong District, Pu Mat National Park, about 20 km SW Con Cuong town, env. Kem waterfall, stream in the forest, N18°58'01,9", E104°49'20,3", h = 249 m, 28.IV.2025. leg. A. O. Lukashuk, 1 wingless ♂; C Vietnam, Nghe An Province, Con Cuong District, Pu Mat National Park, env. Luc Da village, flow, ford, in the stream, N18.971167, E104.860251, 29.IV.2025. leg. A. O. Lukashuk, 1 winged ♀; C Vietnam, Nghe An Province, Con Cuong District, Pu Mat National Park, about 3,5 km W Luc Da village, a fast-flowing stream along the trail, above the bridge, N18.965933, E104.823430, 30.IV.2025. leg. A. O. Lukashuk, 2 wingless ♂, 1 winged ♀, 1 wingless ♀; C Vietnam, Nghe An Province, Con Cuong District, Pu Mat National Park, about 3.5 km W Luc Da village, widening of the stream, weak current, rocky-clayey silted bottom, fallen leaves, macrophytes, N18.967194, E104.822307, 30.IV.2025. leg. A. O. Lukashuk, 1 wingless ♂; C Vietnam, Nghe An Province, Con Cuong District, Pu Mat National Park, about 20 km SW Con Cuong town, env. Kem waterfall, at the checkpoint on the trail to the waterfall, a quiet backwater of a fast flowing stream, muddy bottom, fallen leaves, N18.964258, E104.805099, 30.IV.2025. leg. A. O. Lukashuk, 1 wingless ♀, 2 larvae; C Vietnam, Nghe An Province, Que Phong District, Dong Van Commune, Pu Hoat Nature Reserve, env. Dong Van station, Nam Pa stream, in the stream, N19.808040, E105.094112, 03.V.2025. leg. A. O. Lukashuk, 1 wingless ♂, 2 wingless ♀; C Vietnam, Nghe An Province, Que Phong District, Dong Van Commune, Pu Hoat Nature Reserve, about 3 km SW Dong Van station, env. Khun Na village, rice field, canal, N19.785756, E105.078987, 03.V.2025. leg. S. K. Ryndevich and A. O. Lukashuk, 1 wingless ♀.

Distribution. Palaearctic Region. Asia: SE China. **Oriental Region:** Cambodia, Laos, Malaysia, Myanmar, Thailand, Vietnam [15]. First record for Phia Oac National Park and Pu Hoat Nature Reserve.

Habitats. It inhabits fast-flowing watercourses according to our and literary data [15; 16].

Subfamily HALOBATINAE Bianchi, 1896

Metrocoris acutus Chen et Nieser, 1993

Material examined: N Vietnam, Bac Kan Province, Ba Be National Park, about 14 km W Cho Ra, Tien Pond, along the banks, N22°44'79", E105°61'72", h = 160 m, B6, 27.V.2021. leg. X. L. Truong, 1 winged ♂, 1 wingless ♂, 1 wingless ♀; N Vietnam, Bac Kan Province, Ba Be National Park, Puong cave next to Nang river, N22°46'52", E105°65'35", h = 172 m, B3, 04.VI.2021. leg. X. L. Truong, 1 wingless ♂; C Vietnam, Nghe An Province, Con Cuong District, Pu Mat National Park, about 20 km SW Con Cuong town, env. Kem waterfall, stream in the forest, N18°58'01,9", E104°49'20,3", h = 249 m, 28.IV.2025. leg. S. K. Ryndevich, 1 winged ♀; C Vietnam, Nghe An Province, Con Cuong District, Pu Mat National Park, about 20 km SW Con Cuong town, env. Kem waterfall, a body of water at the foot of a waterfall, areas with a slow current, N18.964258, E104.805099, 28.IV.2025. leg. A. O. Lukashuk, 1 winged ♂; C Vietnam, Nghe An Province, Con Cuong District, Pu Mat National Park, about 20 km SW Con Cuong town, Kem waterfall, stream, N18°58'17,7", E104°48'03,1", h = 421 m, 28.IV.2025, leg. S. K. Ryndevich, A. V. Derunkov, 1 wingless ♂; C Vietnam, Nghe An Province, Que Phong District, Dong Van Commune, Pu Hoat Nature Reserve, env. Dong Van station, Nam Pa stream, N19.808040, E105.094112, 03.V.2025. leg. A. O. Lukashuk, 1 winged ♂, 1 wingless ♀.

Distribution. Palearctic Region. Asia: SW China. **Oriental Region:** Laos, Thailand, Vietnam [14].

Habitats. According to our data and literature [14], it lives in fast-flowing streams, where it is localized in small areas with slow flow.

Metrocoris bilobatoides Chen et Nieser, 1993

Material examined: N Vietnam, Bac Kan Province, Ba Be National Park, about 14 km W Cho Ra, Nang river, along the banks, N22°45'69", E105°63'09", h = 156 m, B5, 04.VI.2021. leg. X. L. Truong, 1 winged ♂.

Distribution. Oriental Region: Vietnam [14]. First record for Bac Kan Province and Ba Be National Park.

Habitats. An analysis of labels from literary sources [14] suggests that this species prefers fast-flowing streams with waterfalls, rapids, etc.

Metrocoris ciliatus den Boer, 1965

Material examined: C Vietnam, Nghe An Province, Que Phong District, Dong Van Commune, Pu Hoat Nature Reserve, env. Dong Van station, Nam Pa stream, N19.808040, E105.094112, 03.V.2025. leg. A. O. Lukashuk, 1 winged ♂, 2 wingless ♂, 1 wingless ♀.

Distribution. Palearctic Region. Asia: SW China. **Oriental Region:** Myanmar, Thailand, Vietnam [14]. Second registration in Vietnam. New record for Nghe An Province and Pu Hoat Nature Reserve.

Habitats. According to our and literary data [14], it is found in fast-flowing watercourses.

Metrocoris inthanon Chen et Nieser, 1993

Material examined: C Vietnam, Nghe An Province, Con Cuong District, Pu Mat National Park, about 3.5 km W Luc Da village, a fast-flowing stream along the trail, above the bridge, N18.965933, E104.823430, 30.IV.2025. leg. A. O. Lukashuk, 1 winged ♂, 2 wingless ♂, 1 winged ♀, 3 wingless ♀; C Vietnam, Nghe An Province, Con Cuong District, Pu Mat National Park, about 3.5 km W Luc Da village, stream in the forest, N18.967194, E104.822307, 30.IV.2025. leg. A. O. Lukashuk, 1 winged ♂.

Distribution. Oriental Region. Laos, Thailand, Vietnam [14].

Habitats. According to our and literary data [14], it lives in fast-flowing watercourses.

Metrocoris johnpolhemi Tran et D. Polhemus, 2017

Material examined: N Vietnam, Bac Kan Province, Ba Be National Park, Puong cave next to Nang river, N22°46'52", E105°65'35", h = 172 m, B3, 04.VI.2021. leg. X. L. Truong, 1 winged ♂, 1 wingless ♀.

Distribution. Oriental Region. Vietnam [14]. First record for Bac Kan Province and Ba Be National Park.

Habitats. Recorded from forested hill streams, from sea level to about 600 m [14]

Metrocoris triangularis Zettel et Chen, 1996

Material examined: C Vietnam, Nghe An Province, Con Cuong District, Pu Mat National Park, about 3.5 km W Luc Da village, stream in the forest, N18.967194, E104.822307, 30.IV.2025. leg. A. O. Lukashuk, 1 wingless ♂.

Distribution. Oriental Region: Vietnam [14]. First record for Nghe An Province and Pu Mat National Park.

Family NEPIDAE

Subfamily NEPINAE Latreille, 1802

Laccotrephes pfeiferiae (Ferrari, 1888)

Material examined: C Vietnam, Nghe An Province, Con Cuong District, Pu Mat National Park, env. Luc Da village, rice field, canal, N18.971559, E104.861800, 29.IV.2025. leg. S. K. Ryndevich, 3 specimens; C Vietnam, Nghe An Province, Que Phong District, Dong Van Commune, Pu Hoat Nature Reserve, about 3 km SW Dong Van station, env. Khun Na village, rice field, canal, N19.785756, E105.078987, 03.V.2025. leg. S. K. Ryndevich and A. O. Lukashuk, 1 specimen; C Vietnam, Nghe An Province, Que Phong District, Dong Van Commune, Pu Hoat Nature Reserve, about 1 km NW Dong Van station, rice field, canal, N19.819796, E105.084315, 04.V.2025. leg. S. K. Ryndevich, 1 specimen.

Distribution. Palaearctic Region. Asia: China. **Oriental Region:** India, Laos, Malaysia, Myanmar, Singapore, Thailand, Vietnam [17]. First record for Nghe An Province, Pu Mat National Park and Pu Hoat Nature Reserve.

Habitats. An inhabitant of stagnant and slowly flowing waters.

Subfamily RANATRINAE Douglas & Scott, 1865

Cercotmetus asiaticus Amyot et Serville, 1843

Material examined: C Vietnam, Nghe An Province, Con Cuong District, Pu Mat National Park, env. Luc Da village, flow, ford, N18.971167, E104.860251, 29.IV.2025. leg. A. O. Lukashuk, 1 larva; C Vietnam, Nghe An Province, Con Cuong District, Pu Mat National Park, about 3.5 km W Luc Da village, widening of the stream, weak current, rocky-clayey silted bottom, litter, macrophytes, N18.967194, E104.822307, 30.IV.2025. leg. A. O. Lukashuk, 1 specimen; C Vietnam, Nghe An Province, Que Phong District, Dong Van Commune, Pu Hoat Nature Reserve, about 1 km NW Dong Van station, rice field, canal, N19.819796, E105.084315, 04.V.2025. leg. A. O. Lukashuk, 4 larvae.

Distribution. Palaearctic Region. Asia: China. **Oriental Region:** Indonesia, Malaysia, Thailand, Vietnam [18; 19].

Habitats. It inhabits various water bodies with stagnant or slow-flowing water, and sometimes in fast-flowing streams, where it is found in areas with slow flow.

Remark. Larvae are easily identified by their adult characteristics, such as a growth on the head and a longitudinal ridge on the thorax.

Conclusion. Thus, the study of aquatic true bugs in a number of Vietnamese protected areas revealed 18 species from the Gerridae family (16 species from 8 genera) and the Nepidae family (2 species from 2 genera).

Two species of water striders, *Gerris latiabdominis* and *Metrocoris ciliatus*, have been confirmed for the fauna of Vietnam.

Most of the collected species have not been previously recorded in the areas under consideration, and they are listed for the first time for Bac Kan Province (Northern Vietnam) — 6 species, Ba Be National Park — 6 species; Cao Bang Province (Northern Vietnam) — 1 species, Phia Oac National Park — 2 species; Than Hoa Province (Central Vietnam) — 2 species, Xuan Lien Nature Reserve — 2 species; Nghe An Province (Central Vietnam) — 9 species, Pu Mat National Park — 4 species, Pu Hoat Nature Reserve — 8 species and Kien Giang Province (South Vietnam) — 1 species, U Minh Thuong National Park — 1 species.

Vietnam is one of the 36 biodiversity hotspots, and further research on the bugs in this region is relevant given their importance for human activities and natural communities.

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