

## New data on the distribution of Helophoridae, Hydrochidae and Hydrophilidae (Coleoptera) in Russia and adjacent lands

## Новые данные по распространению Helophoridae, Hydrochidae и Hydrophilidae (Coleoptera) в России и сопредельных странах

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КЛЮЧЕВЫЕ СЛОВА: Coleoptera, Helophoridae, Hydrochidae, Hydrophilidae, распространение, новые находки, Россия.

**ABSTRACT.** New data on the distribution of Helophoridae, Hydrochidae, and Hydrophilidae (Coleoptera: Hydrophiloidea) species in Russia and adjacent lands are reported. New localities contributing to the knowledge of the ranges of nine species of Helophoridae, two species of Hydrochidae, and 20 species of Hydrophilidae are given. Two species are new to Russia, two to Asia, one to Armenia, one to Uzbekistan, nine to West Siberia, 11 to the Urals, 13 to the Altai, two to the Caucasus, one to Buryat Republic, five to Yamal Peninsula, and one to Vaygach Island.

**РЕЗЮМЕ.** В статье содержатся новые данные о распространении видов семейств Helophoridae, Hydrochidae и Hydrophilidae (Coleoptera: Hydrophiloidea) в России и сопредельных странах. Приводятся новые местонахождения девяти видов Helophoridae, двух видов Hydrochidae и 20 вида Hydrophilidae, уточняющие сведения об их ареалах. Два вида впервые указываются для России, два для Азии, один — для Армении, один — для Узбекистана, девять — для Западной Сибири, 11 — для Урала, 13 — для Алтая, два — для Кавказа, один — для Бурятии, пять — для Ямала, один — для острова Вайгач.

### Introduction

The distribution of Hydrophiloidea in the Palaearctic region was reviewed by M. Hansen [2004]. Kirejtshuk and Shatrovskiy [2001a, 2001b, 2001c] summarized the available data on the fauna of Hydrophiloidea of the former USSR.

Recent compilations of new data on the distribution of Hydrophiloidea in Russia and adjacent lands were published by Ryndevich [2001, 2003, 2007], Hebauer and Ryndevich [2005], Prokin [2006, 2008] and Prokin with coauthors [2002].

Results of studying private collections and collections of several museums were used as the material for this work. New localities for nine species of Helophoridae, two species of Hydrochidae, and 21 species of Hydrophilidae are recorded here. Two species new to Russia, two to Asia, one to Armenia, one to Uzbekistan, nine to West Siberia, 12 to the Urals, 13 to the Altai, two to the Caucasus, one to Buryat Republic, five to Yamal Peninsula, and one to Vaygach Island are reported.

### Material and methods

Names of depositories of the material examined are abbreviated as follows: ZISP — Zoological Institute of Russian Academy of Sciences (St. Petersburg); ZMUM — Zoological Museum of Moscow State University (Moscow); cAK — private collection of A.G. Koval (St.-Petersburg); cAP — private collection of A.A. Prokin, (Voronezh); cPP — private collection of P.N. Petrov (Moscow); cSR — private collection of S.K. Ryndevich (Baranovichy); cTA — private collection of T.R. Andrejeva (Moscow).

### Results and discussion

New data are listed below. All the labels are translated from Russian, except indicated otherwise. Comments and

additional words (to clarify the meaning) are given in square brackets. Russian terms that have no evident English equivalents are given in quotation marks within square brackets, following their approximate translations.

#### Family Helophoridae

##### *Helophorus (Gephelophorus) sibiricus* Motschulsky, 1860

MATERIAL. Southern Yamal Peninsula, Shchuchya River Basin, Bolshoy Sopkey Height, 7–25.VIII.1980, T.R. Andrejeva leg., sandy shore of portaging lake 4, 1 specimen; southern Yamal Peninsula, left bank of Shchuchya River, ~25 km upstream of Shchuchye Trading Station [“faktoriya Shchuchye”] (Verkhneye Shchuchye Tract), 12–14.VIII.1980, T.R. Andrejeva leg., edge of sedge swamp on floodplain, sand, 1 specimen, 14.VIII–21.IX.1980, sedge swamp, 1 specimen; southern Yamal Peninsula, bank of Shchuchya River, env. Shchuchye Trading Station, IX. 1981, T.R. Andrejeva leg., 1 specimen; southern Yamal Peninsula, Priuralskiy Rayon [District], env. Shchuchye Trading Station, 27.VI.1980, T.R. Andrejeva leg., 1 specimen, 9.VIII.1980, T.R. Andrejeva leg., 1 specimen, right bank, willow bush near floodplain lake opposite Shchuchye, 30.VI.1979, 1 specimen; Southern Yamal Peninsula, Shchuchya River, middle section of riverbed (large bend), 3.VII.1980, T.R. Andrejeva leg., 1 specimen, end of portage over Bolshoy Sopkey [Height]; southern Yamal Peninsula, Shchuchya River, 180 km upstream of the mouth, Tanlova-yakha River (beginning of meander), 14.VII.1982, T.R. Andrejeva leg., 1 specimen, camp [“balok”], shrubbery of *Ahus fruticosa* + *Salix* sp.; southern Yamal Peninsula, Shchuchya River, 15 km downstream of Yun-Yakha River mouth (Vostochnyy Buridan), 14.VII.1982, T.R. Andrejeva leg., 1 specimen; southern Yamal Peninsula, Baydarata River near mouth, 7.IX.1980, T.R. Andrejeva leg., from the stomach of *Phivalis apricarius*; Yorkuta [River], bridge (224 km), 29.VII.2001, T.R. Andrejeva leg., 1 specimen, sand, *Equisetum arvense*, Gramineae; Southern Yamal Peninsula, Yorkuta [River], bridge (224 km), sand, *Eq. arvense*, Gramineae, 29.VII.2006, T.R. Andrejeva leg., 8 specimens; southern Yamal Peninsula, 160 km of the railway, Yenzor [River] valley, sandpit III, 28.VI.2003, T.R. Andrejeva leg., 1 specimen, shallow puddles, *Carex* sp., *E. angustifolium*; southern Yamal Peninsula, 108 km of road [from Obskaya] to Bovanenkov, sandpit near Khalyatalbey River, 21.VIII.2001, T.R. Andrejeva leg., 1 specimen, at margin of pool with *Hippuris vulgaris*; southern Yamal Peninsula, floodplain of Yorkuta River, near railroad [from Obskaya] to Bovanenkov, left bank, 29.VII.2001, T.R. Andrejeva leg., 1 specimen, lower margin of short willow shrubs along sand spit of river (bridge), bridge no. 3, 10 specimens, short willow shrubs along slope of floodplain (bridge), 1 specimen, bridge №4, 4 specimens; Yorkuta [River], pool with *Equisetum limosum*, 29.VII.2001, T.R. Andrejeva leg., 1 specimen; southern Yamal Peninsula, 108 km of the railway to Bovanenkov, pit near Khalyatalbey River, 21.VIII.2001, T.R. Andrejeva leg., 1 specimen, sand, willows, *Equisetum arvense*; southern Yamal, 108 km (NE Obskaya [Railway] Station), between Khalyatalbey River and road, 6.07. 2001, P. Petrov leg., 16 specimens, pool at forest edge. (all in cTA).

New to the Yamal Peninsula.

##### *Helophorus (Orphelophorus) obscurellus* Poppius, 1907

MATERIAL. Southern Yamal Peninsula, 108 km of the railway, pit near Khalyatalbey River, 21.VIII.2001, T.R. Andrejeva leg., 1 specimen, sand, willows, *Eq. arvense*; southern Yamal Peninsula, Shchuchya River basin, env. Shchuchye Trading Station, 22.VI.1981, T.R. Andrejeva leg., 1 specimen; southern Yamal Peninsula, Shchuchya River basin, Shchuchye Trading Station, 26.VI.1981, T.R. Andrejeva leg., 1 specimen, *Calamagrostis langsdorffii* + various forbs; southern Yamal Peninsula, Shchuchya River basin, Shchuchye Trading Station, 27.VI.1981, T.R. Andrejeva leg., 1 specimen (all in cTA).

Vaygach Island, Lyamchina Bay [“bukhta”], Tsinkovaya Inlet [“guba”], 17–30.VII.1984, T.R. Andrejeva leg., 5 specimens, meadow (2 in cTA, 3 in cAP).

New to Yamal Peninsula and the Vaygach Island (locality on the Kara Sea coast in the typical tundra zone).

##### *Helophorus (Rhopalohelophorus) abeillei* Guillebeau, 1896

MATERIAL. W. Caucasus, Sochi, Atshishkho, Mt. R., 1800 m., 27.VIII.1996, leg. A.G. Koval [in English], 1 specimen (cSR).  
New to Russia and the Caucasus.

##### *Helophorus (Rhopalohelophorus) nanus* Sturm, 1836

MATERIAL. Altai, env. Teletskoye Lake, Kyga River, mouth, backwater, 12.07.1999, P. Petrov leg., 1 specimen (cAP).  
New to the Altai.

##### *Helophorus (Rhopalohelophorus) nigricans* Poppius, 1907

MATERIAL. Southern Yamal, 108 km of railroad (NE Obskaya Station), between Khalyatalbey River and road, floodplain pool (with sedge and peat moss) at forest edge, 6.07.01. P.N. Petrov leg., 1 specimen (cAP).

New to Yamal Peninsula and West Siberia.

##### *Helophorus (Rhopalohelophorus) oblongus* J.L. LeConte, 1850

MATERIAL. Southern Yamal Peninsula, 160 km of the railway, Yenzor [River] valley, sandpit II, 2.VII.2003, T.R. Andrejeva leg., 1 specimen (cTA); small lake with small island, 28.VI.2003, 1 specimen, shallow puddles with *Carex* sp., *E. angustifolium* (cAP); southern Yamal Peninsula, 160 km of the railway, Yenzor [River] valley, to Bovanenkov, pit II, 4.VII.2003, “garland” of small lakes (uppermost lake), T.R. Andrejeva leg., 1 specimen (cAP).

New to Yamal Peninsula.

##### *Helophorus (Rhopalohelophorus) pallidus* Gebler, 1830

MATERIAL. Altai, Teletskoye oz., 23.V.1951, 1 specimen (ZMUM); Altai, env. Teletskoye Lake, Kyga River, mouth, backwater, 12.07.1999, P. Petrov leg., 1 specimen (cAP).

New to the Altai

##### *Helophorus (Rhopalohelophorus) paraminutus* Angus, 1886

MATERIAL. Altai, Krasnoshchekovskiy District, Kholodnyy Klyuch spring, 29.07.1988, 18 specimens (cSR); Altai, env. Teletskoye Lake, Kyga River, mouth, backwater, 12.07.99; P.N. Petrov leg., 1 specimen (cAP).

Chelyabinsk Oblast, Kizilskiy District, env. Cherkasy Village, former riverbed of Bolshaya Karaganka, 27.6.–2.7.01, P.N. Petrov leg., 1 specimen (cAP); 5 specimens (cPP).

New to the Altai and the Urals.

##### *Helophorus (Rhopalohelophorus) uvarovi* Angus, 1885

MATERIAL. Chelyabinsk Oblast, Kizilskiy District, Ural River 5 km S Cheka Hill, 3.5.2006, P. Petrov leg., 1 specimen (cAP).  
New to the Urals.

#### Family Hydrochidae

##### *Hydrochus crenatus* Fabricius, 1792

MATERIAL. Chelyabinsk Oblast, Bredinskiy District, between villages Mayak and Atamanovskiy, (around 12 km from Mayak), 5.V.2006, P. Petrov leg., 1 specimen (cPP).

New to the Urals and Asia.

##### *Hydrochus ignicollis* Motschulsky, 1860

MATERIAL. Tyumen Oblast, Tyumen City, Tura River, backwater, 21.07.1998, P. Petrov leg., 2 specimens (cPP), 22.07.1998,

3 specimens (cAP).

Chelyabinsk Oblast, Kizil'skiy District, env. Cheka Hill, 3–6.05.2006, I. Fyodorov leg., 1 specimen (cPP).

New to Asia, West Siberia, and the Urals.

#### Family Hydrophilidae

##### *Berosus (Berosus) luridus* Linnaeus, 1761

MATERIAL. Chelyabinsk Oblast, Kizil'skiy District, 4 km E Cheka Hill, gravel-pit pond on brook, being left-hand tributary of Bolshaya Karaganka River, 6.V.2006, P. Petrov leg., 1 specimen (cPP).

New to the Urals.

##### *Berosus (Enoplurus) frontifoveatus* Kuwert, 1888

MATERIAL. Chelyabinsk Oblast, Kizil'skiy District, env. Cherkasy Village, former riverbed of Bolshaya Karaganka, 27.06–2.07.2001, P. Petrov leg., 1 specimen (cAP).

New to the Urals.

##### *Cercyon (Cercyon) korbianus* Kniž, 1911

MATERIAL. Lower Ob River Region, Labytnangi, floodplain lake ["sor"] along the dam, 29.VI.2006, T.R. Andrejeva leg., 1 specimen (cAP).

New to West Siberia.

##### *Cercyon (Cercyon) melanocephalus* (Linnaeus, 1758)

MATERIAL. Altai, Karakolskiye Lakes, 19.07.1992, 8 specimens (cSR).

New to the Altai.

##### *Cercyon (Cercyon) ovillus* Motschulsky, 1860

MATERIAL. Uznezya on Katun, Altai, 25.VII.[1]909, Gorchakovskiy, 16 specimens (ZISP).

Buryatia, 80 km N Orlik Village, Arkhabom Tract, 25.08.1999, K. Gongalsky, 4 specimens (cAP).

New to the Altai and Buryat Republic.

##### *Cercyon (Cercyon) quisquilius* (Linnaeus, 1761)

MATERIAL. Altai, near Kosh-Agach, 26.05.1989, leg. S.V. Saluk [in English], 2 specimens (cSR).

New to the Altai.

##### *Cercyon (Cercyon) unipunctatus* (Linnaeus, 1758)

MATERIAL. Uznezya on Katun, Altai, 25.VII.[1]909, Gorchakovskiy, 1 specimen, same data label, 4–6.VIII.[1]909, 1 specimen (both in ZISP).

New to the Altai.

##### *Cercyon (Paracycreon) laminatus* Sharp, 1873

MATERIAL. Russia, Altai, Seminsky Mt.R., env. Tsherga vill., 19–24.VIII.2003, leg. A.G. Koval [in English], 1 specimen (cAK).

New to the Altai and West Siberia.

##### *Cryptopleurum minutum* (Fabricius, 1775)

MATERIAL. Southwestern Altai, Kurchumskiy Range, coast of Markakol Lake, gora Sedelka, R. Dudko, V. Zinchenko leg., 6.07.1997, 2 specimens (ZISP).

New to the Altai.

##### *Enochrus (Lumetus) halophilus* (Bedel, 1878)

MATERIAL. Voronezh Oblast, 14 km W Liski Town, env. Divnogorskaya Station, Tikhaya Sosna River, 19.08.2000, Prokin leg., 1 specimen (cAP).

New to Russia.

##### *Enochrus (Lumetus) bicolor* (Fabricius, 1792)

MATERIAL. Tyumen Oblast, Tyumen City, Tura River, backwater, 21.07.1998, P. Petrov leg., 1 specimen (cAP).

New to West Siberia.

##### *Enochrus (Lumetus) quadripunctatus* (Herbst, 1797)

MATERIAL. Tyumen Oblast, Tyumen City, Tura River, backwater, 21.07.1998, P. Petrov leg., 7 specimens (5 in cPP, 2 in cAP), 22.07.1998, 1 specimen (cAP), 23.07.1998, 4 specimens (2 in cPP, 2 in cAP); Tyumen Oblast, Nizhnetavdinskiy District, Tangach Lake, 30.07.1998, P. Petrov leg., 1 specimen (cAP); 4 km E Cheka Hill, 4.05.2006, P. Petrov leg., 1 specimen (cAP).

Chelyabinsk Oblast, Kizil'skiy District, Ural River 5 km S Cheka Hill, 3.05.2006, P. Petrov leg., 1 specimen (cAP); Chelyabinsk Oblast, Kizil'skiy District, env. Cherkasy Village, former riverbed of Bolshaya Karaganka, 27.06–2.07.2001, P. Petrov leg., 2 specimens (1 in cPP, 1 in cAP); Chelyabinsk Oblast, Bredinskiy District, between villages Mayak and Atamanovskiy (around 12 km from Mayak), 5.V.2006, P. Petrov leg., 1 specimen (cPP).

Altai, env. Teletskoye Lake, Kyga River, mouth, backwater, 15.07.1999, P. Petrov leg., 1 specimen (cPP).

New to West Siberia, the Urals, and the Altai.

##### *Enochrus (Lumetus) fuscipennis* Thomson, 1884

MATERIAL. Tyumen Oblast, Chertankul Lake [around 43 km of railroad from Tyumen to Tobolsk], 26.07.1998, P. Petrov leg., 2 specimens (cPP); Tyumen Oblast, Tangach Lake, 30.07.1998, P. Petrov leg., 1 specimen (cPP).

Chelyabinsk Oblast, Kizil'skiy District, env. Aleksandrovskiy Village, Utyaganka River, 17.08.1998, P. Petrov leg., 1 specimen (cAP).

New to West Siberia and the Urals.

##### *Enochrus (Methyrus) affinis* (Thunberg, 1794)

MATERIAL. Altai, env. Teletskoye Lake, Kyga River, mouth, backwater, 15.07.1999, P. Petrov leg., 1 specimen (cAP).

New to the Altai.

##### *Hydrobius fuscipes* Linnaeus, 1758

MATERIAL. Southern Yamal Peninsula, 160 km of the railway, Yenzor [River] valley, sandpit II, 28.VI.2003, T.R. Andrejeva leg., 5 specimens (3 in cTA, 2 in cAP); shallow puddles with *Carex* sp., *E. angustifolium*; southern Yamal Peninsula, 160 km of the railway, Yenzor [River] valley, sandpit II, small lake with small island, 2.VII.2003, T.R. Andrejeva leg., 2 specimens (cTA); southern Yamal Peninsula, Shchuchya River, 25 km upstream of Shchuchye Trading Station (Verkhneye Shchuchye), 19.VI.1982, T.R. Andrejeva leg., 1 specimen (cTA).

Altai, env. Teletskoye Lake, Kyga River, mouth, backwater, 15.07.1999, P. Petrov leg., 2 specimens (1 in cPP, 1 in cAP).

New to Yamal Peninsula and the Altai.

##### *Laccobius (Dimorpholaccobius) bipunctatus* (Fabricius, 1775)

MATERIAL. Tyumen Oblast, Tyumen City, Tura River, backwater, 21.07.1998, P. Petrov leg., 1 specimen (cPP).

Chelyabinsk Oblast, env. Aleksandrovskiy Village, Bolshaya Karaganka River, 17.08.1998, P. Petrov leg., 1 specimen (cAP).

Altai, env. Teletskoye Lake, Yaylyu, puddle on country road, 5.07.1999, P. Petrov leg., 2 specimens (1 in cPP, 1 in cAP).

New to the Altai, Urals and West Siberia.

##### *Laccobius (Laccobius) colon* Stephens, 1829

MATERIAL. Chelyabinsk Oblast, Kizil'skiy District, Ural River, 3.V.2006, P. Petrov leg., 1 specimen (cPP); env. Cheka Hill, 3–6.V.2006, I. Fyodorov leg., 1 specimen (cPP); Chelyabinsk Oblast, env. Aleksandrovskiy Village, Bolshaya Karaganka River, 15.08.1998, P. Petrov leg., 2 specimens (cAP).

New to the Urals.

##### *Laccobius (Laccobius) minutus* (Linnaeus, 1758)

MATERIAL. Chelyabinsk Oblast, env. Aleksandrovskiy Vil-



lage, Bolshaya Karaganka River, 15.08.1998, P. Petrov leg., 2 specimens (1 in cPP, 1 in cAP).

Lower Ob River Region, Labytnangi, dam, former riverbed along Vyl-posl River, 26.VI.2006, T.R. Andrejeva leg., 1 specimen (cTA); Tyumen Oblast, Tyumen City, Tura River, backwater, 22.07.1998, P. Petrov leg., 2 specimens (1 in cPP, 1 in cAP).

Altai, env. Teletskoye Lake, Kyga River, mouth, backwater, 15.07.1999, P. Petrov leg., 1 specimen (cAP), 12.07.1999, 1 specimen (cPP); Altai, env. Teletskoye Lake, left bank of Chulyshman River, temporary waterbody, 16.07.1999, P. Petrov leg., 1 specimen (cPP); Altai, env. Teletskoye Lake, Yaylyu, puddle on country road, 5.07.1999, P. Petrov leg., 2 specimens (1 in cPP, 1 in cAP).

New to the Urals, Altai and West Siberia.

*Laccobius (Microlaccobius) alternus* Motschulsky,  
1855

MATERIAL. Armenia, Vayotsdзор Region, env. of vill. Areni, gorge of Guishir Riv., 1100 m, 9–10.VII.2003, leg. A.G. Koval [in English], 1 specimen (cAK).

New to Armenia.

*Sphaeridium marginatum* Fabricius, 1787

MATERIAL. E. Caucasus, Dagestan, Gunib distr., nr of Rugudzhа vill, valley of Rugudzhanka Riv., 1500 m, 8.VI.2005, leg. E. Kazieva [in English], 3 specimens (cAK).

Uzbekistan, Nuratau Range, env. Kayasa, Khayatsay, 16.05.1996, leg. Anonymous, 1 specimen (cTA).

New to the Caucasus and Uzbekistan.

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