



New records of water beetles (Coleoptera: Gyrinidae, Haliplidae, Noteridae, Dytiscidae, Helophoridae, Hydrophilidae, Hydraenidae) and shore beetles (Coleoptera: Heteroceridae) of Mongolia

Alexander A. Prokin, Gantigmaa Chuluunbaatar, Robert B. Angus, Manfred A. Jäch, Pyotr N. Petrov, Sergey K. Ryndevich, Enkhtuya Byambanyam, Alexey S. Sazhnev, Jiří Hájek & Helena Shaverdo

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New records of water beetles (Coleoptera: Gyrinidae, Haliplidae, Noteridae, Dytiscidae, Helophoridae, Hydrophilidae, Hydraenidae) and shore beetles (Coleoptera: Heteroceridae) of Mongolia

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ABSTRACT

Twenty-eight species of water beetles and shore beetles are recorded for the first time from Mongolia: Dytiscidae (16): *Acilius sulcatus* (Linnaeus, 1758), *Agabus amoenus* (Solsky, 1874), *A. blatta* Jakowlew, 1897, *A. japonicus continentalis* Gueorguiev, 1970, *A. moestus* (Curtis, 1835), *A. thomsoni* (Sahlberg, 1871), *Bidessus nasutus* Sharp, 1887, *Colymbetes dolabratus* (Paykull, 1798), *Dytiscus circumcinctus* Ahrens, 1811, *Hydaticus aruspex* Clark, 1864, *H. continentalis* Balfour-Browne, 1944, *Hydroglyphus trassaerti* (Feng, 1936), *Hygrotus confluens* (Fabricius, 1787), *Laccornis oblongus* (Stephens, 1835), *Nebrioporus assimilis* (Paykull, 1798), *Rhantus rufus* Zimmermann, 1922; Helophoridae (3): *Helophorus bergrothi* Sahlberg, 1880, *H. kryzanovskii* Angus, 1984, *H. timidus* Motschulsky, 1860; Hydrophilidae (6): *Crenitis apicalis* (Reitter, 1896), *Enochrus coarctatus* (Gredler, 1863), *E. melanocephalus* (Olivier, 1792), *E. testaceus* (Fabricius, 1801), *Laccobius syriacus* Guillebeau, 1896, *Paracymus chaldeolus* Solsky, 1874; Hydraenidae (1): *Ochthebius joosti* Jäch, 1992; Heteroceridae (2): *Augyles obliterated* (Kiesenwetter, 1843), *Heterocerus marginatus* (Fabricius, 1787). The presence of *Halipilus ruficollis* (De Geer, 1774) (Haliplidae), *Hydroglyphus hamulatus* (Gyllenhal, 1813) (Dytiscidae), *Cercyon marinus* (Thomson, 1853), *Hydrophilus dauricus* Mannerheim, 1852, *Paracymus aeneus* (Germar, 1824) (Hydrophilidae), and *Ochthebius evanescens* Sahlberg, 1875 (Hydraenidae) in Mongolia is confirmed by new findings. For 76 species, new faunistic records are listed.

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Introduction

The water beetle and shore beetle fauna of Mongolia is still poorly known although numerous studies have already been published (Brinck 1943; Guéorguiev 1965, 1968a,b, 1969, 1972; Klausnitzer 1967; Angus 1970a; Charpentier 1979; Brancucci 1982; Bellstedt 1985; Short and Kanda 2006; Shaverdo, Short, and Davaadorj 2008; Short, Torres, and Vondel 2010; Fikáček et al. 2015; etc.). Guéorguiev (1972) summarised old literature records of Mongolian aquatic Adepnaga. Only three families of Mongolian water beetles have been more thoroughly reviewed in the last 10 years: Dytiscidae (Shaverdo et al. 2008), Haliplidae (Short et al. 2010) and Gyrinidae (Enkhnasan 2011).

The aim of this paper is to report new records and to provide a complete list of the species of the Gyrinidae, Haliplidae, Noteridae, Dytiscidae, Helophoridae, Hydrophilidae, Hydraenidae, Heteroceridae currently known from Mongolia.

Material and methods

The present work is based on material from the following collections:

CSR	Collection of S.K. Ryndevich, Baranovichi, Belarus.
IBIW	Papanin Institute for Biology of Inland Waters, Borok, Russia.
IGEB	Institute of General and Experimental Biology, Ulaanbaatar, Mongolia.
MSU	Department of Entomology, Faculty of Biology, Lomonosov Moscow State University, Moscow, Russia.
NHMW	Naturhistorisches Museum Wien (Natural History Museum Vienna), Vienna, Austria.
NMPC	Národní muzeum (National Museum), Prague, Czech Republic.
ZISP	Zoological Institute, Russian Academy of Sciences, St. Petersburg, Russia.

Most of the examined specimens were collected by G. Chuluunbaatar, E. Byambanyam, and N. Balgan; these specimens are deposited in the IGEB (depository not listed in the text). For the remaining specimens, depository is mentioned after the locality data.

The material was identified by R.B. Angus (Helophoridae), J. Hájek (Gyrinidae, Dytiscidae), M.A. Jäch (Hydraenidae), P.N. Petrov (Gyrinidae, Haliplidae, Noteridae and Dytiscidae), A.A. Prokin (representatives of all families), S.K. Ryndevich (Hydrophilidae), A.S. Sazhnev (Heteroceridae) and H. Shaverdo (Dytiscidae). Extracted genitalia were glued near the beetles.

The new records are presented in an annotated species list. All species currently known from Mongolia are listed in Table 1. The Dytiscidae are listed according to the most recent catalogues (Hájek 2017; Nilsson and Hájek 2019), the taxa of the other families are listed alphabetically. We provide literature records and detailed new records for the Mongolian provinces (= aimags) and the provincial municipality of Ulaanbaatar, based on the studied material. Catalogues which provide only country records (e.g., Vondel 2003, 2017; Nilsson 2003; Hansen 2004; Fikáček et al. 2015; Hájek 2017; Hájek and Fery 2017; Nilsson and Hájek 2019) are cited only in case when they represent the only known Mongolian country record for the respective species.

Specimens recorded from ‘Central aimak, Kerlen [= Kherlen] River, 45 km E Bayandelger, 25.VII.1965 and 25.VIII.1965, leg. Kaszab (No 303, No 479)’ were not collected in Töv Province. Kherlen-gol River forms the border between Baganuur District (an exclave of Ulaanbaatar) and Khentii Province (Tsenkhermandal District); see ‘Гео-мэдээллийн сан (Geo-medeelliyin san)’, Geo-database (<https://eic.mn/geodata/>). In the annotated species list and in Table 1 these specimens are listed as ‘Ulaanbaatar/Baganuur’.

Some label data are listed verbatim between quotation marks; the text within square brackets is explanatory and not part of the original labels.

Family Gyrinidae Latreille, 1810

Gyrinus distinctus Aubé, 1838

Literature records

Khentii, Khovd, Töv, Uvs, Zavkhan (Guéorguiev 1968a, 1972; Nilsson 2001; Enkhnasan 2011).

New province records, material studied

Bayan-Ölgii Province. Tolbo District: 2 exs., Tolbo-nuur Lake, 01.VII.2014, G. Chuluunbaatar leg.

Govi-Altai Province. Bugat District: 2 ♂, S of Mongolian Altay, Alag Kharkhan Mts., 2500 m a.s.l., 05–07.VII.2007, A. Saldaitis leg. (NMPC).

Gyrinus paykulli Ochs, 1927

Literature records

Khovd (Bellstedt 1985; Enkhnasan 2011).

New province record, material studied

Arkhangai Province. Ölzii District: 1 ex., Orkhon-gol River, near bridge, 48°06′20.1″N, 102°34′34.4″E, 17.IV.2015, G. Chuluunbaatar leg.

Family Haliplidae Kirby, 1837

Haliplus ruficollis (De Geer, 1774)

Literature record

The species was recorded from Mongolia as *Haliplus seidlitzii* Csiki, 1946 by Guéorguiev (1965) without detailed locality information.

First province records, material studied

Bayankhongor Province. Erdenetsogt District: 1 ex., Tuin-gol River, pools in floodplain, 46°22′18.6″N, 100°48′16.0″E, 12.VII.2009, A. Prokin leg. (IBIW).

Darkhan-Uul Province. Orkhon District: 5 exs., vicinity of Darkhan, small oxbow lake in Orkhon-gol River floodplain, 49°40′5″N, 105°52′46″E, 26.VII.2009, A. Prokin leg. (IBIW).

Selenge Province. Yeröö District: 12 exs., vicinity of Khonin-nuga research station, upper course of Yeröö-gol River, 49°05'18.6"N, 107°17'37.1"E, 16.VII.2014, G. Chuluunbaatar leg. 10 exs., vicinity of Khonin-nuga research station, Khandgai-nuur Lake, 49°03'16.9"N, 107°14'16.1"E, 18.VIII.2014, G. Chuluunbaatar leg. 4 exs., vicinity of Khonin-nuga research station, Ulaanburgas limnocene, 49°03'51.4"N, 107°16'11.7"E, 17.VIII.2014, G. Chuluunbaatar leg. Sükhbaatar District: 9 exs., vicinity of Sükhbaatar, oxbow lake on terrace of Orkhon-gol River, 50°10'02.2"N, 106°11'29.1"E, 17.VII.2009, A. Prokin leg. (IBIW). 9 exs., vicinity of Sükhbaatar, limnocene near railway, 50°10'16.3"N, 106°11'34.5"E, 18.VII.2009, A. Prokin leg. (IBIW).

Ulaanbaatar. Sükhbaatar District: 1 ex., Sanzai valley, limnocene, 48°08'12.7"N, 106°53'41.0"E, 22.VIII.2014, G. Chuluunbaatar leg.

***Halipus sibiricus* Motschulsky, 1860**

Literature records

Arkhangai, Khentii, Khovd, Khövsgöl, Övörkhangai, Selenge, Ulaanbaatar, Ulaanbaatar/Baganuur, Zavkhan (Guéorguiev 1965; 1968a, b; Brancucci 1982; Bellstedt 1985; Short et al. 2010).

New province record, material studied

Bayankhongor Province. Erdenetsogt District: 2 exs., Tuin-gol River, pools in floodplain, 46°22'18.6"N, 100°48'15.0"E, 12.VII.2009, A. Prokin leg. (IBIW).

Family Noteridae Thomson, 1860

***Noterus clavicornis* (De Geer, 1774)**

Literature records

Arkhangai, Uvs (Guéorguiev 1965, 1972).

New province record, material studied

Khovd Province. Dörgön District: 2 exs., Dörgön Reservoir near Chono-Chariakha-gol River, pools, 48°17'33.6"N, 92°59'46.6"E, 25.VIII.2017, A.S. Sazhnev leg. (IBIW).

Family Dytiscidae Leach, 1815

***Agabus adpressus* Aubé, 1837**

Literature records

Arkhangai, Bayankhongor, Bulgan, Govi-Altai, Khovd, Khövsgöl, Ömnögovi, Övörkhangai, Selenge, Töv, Ulaanbaatar, Uvs, Zavkhan (Guéorguiev 1965, 1968b, 1969, 1972; Brancucci 1982; Bellstedt 1985; Nilsson 1994; Shaverdo et al. 2008; Enkhnasan 2008).

New province record, material studied

Bayan-Ölgii Province. Tsagaannuur District: 2 exs., unnamed river, 49°22'10.7"N, 89°09'18.0"E, 29.VI.2014, G. Chuluunbaatar leg. Nogoonnuur District: 4 exs., Khavtsalin-gol River, 49°34'24.0"N, 90°00'59.0"E, 28.VI.2014, G. Chuluunbaatar leg. Tsengel District: 2 exs., Tsagaan-gol River, 49°10'06.2"N, 88°02'22.5"E, 30.VI.2014, G. Chuluunbaatar leg.

Agabus amoenus Solsky, 1874***First Mongolian records, material studied***

Ömnögovi Province. Khanbogd District: 4 exs., E of Oyu-tolgoi mining area, Baga-bulag spring, 43°11'33.0"N, 107°07'26.8"E, 23.VIII.2013, G. Chuluunbaatar leg. 1 ex., artificial pond in Oyu-tolgoi mining area, 42°58'22.3"N, 106°51'26.4"E, 18.VIII.2013, G. Chuluunbaatar leg. 1 ex., Buuriin-khuhiin-zadgai spring, 43°02'11.3"N, 107°12'24.2"E, 20.VIII.2013, G. Chuluunbaatar leg. 1 ex., Ikh-bulag spring, 43°11'28.6"N, 107°11'50.5"E, 19.VIII.2013, G. Chuluunbaatar leg. 1 ex., Ulaan-bulag spring, 43°07'17.7"N, 107°21'03.5"E, 19.VIII.2013, G. Chuluunbaatar leg.

Agabus arcticus alpinus (Motschulsky, 1860)***Literature records***

Arkhangai, Töv, Ulaanbaatar, Zavkhan (Guéorguiev 1969; Bellstedt 1985; Shaverdo et al. 2008).

New province records, material studied

Bayan-Ölgii Province. Ulaankhus District: 1 ex., unnamed river, 49°17'26.3"N, 88°40'20.9"E, 29.VI.2014, G. Chuluunbaatar leg.

Bulgan Province. Teshig District: 4 exs., 90 km NNE Teshig, Boork-namag mire, ca. 50°00'N, 102°42'E, 21.VII.2010, A. Prokin leg. (IBIW).

Khövsgöl Province. Renchinlkhümbe District: 6 exs., western margin of Khövsgöl-nuur Lake, 50°47'16.3"N, 100°14'20.0"E, 02.VII.2015, G. Chuluunbaatar leg. 17 exs., Ulkhun-gol River, 50°39'36.2"N, 100°01'21.7"E, 08.VII.2015, G. Chuluunbaatar leg.

Selenge Province. Yeröö District: 1 ex., Bar-chuluut-gol River, 49°01'41.7"N, 107°11'53.3"E, 01.VII.2015, G. Chuluunbaatar leg. 1 ex., upper course of Yeröö-gol River, 49°05'18.6"N, 107°17'37.1"E, 01.VII.2015, G. Chuluunbaatar leg.

Agabus blatta Jakowlew, 1897***First Mongolian records, material studied***

Govi-Altai Province. Erdene District: 5 exs., 'MNR [Mongol'skaya Narodnaya Respublika = Mongolian People's Republic], Zaaltaysky r-n [Trans-Altai district], rod-nik [spring] Shara-Khulasni', date and collector unknown (MSU).

Övörkhangai Province. ?Züünbayan-Ulaan District: 2 ♂, 45 km NW Arvaikheer, south-eastern part of Khangai Mts., 2000 m a.s.l., 18.VII.2002, S. Churkin leg. (NMPC).

Uvs Province. Türgen District: 1 ex., Hondlongiyn-gol River, 50°07'33.0"N, 91°41'33.3"E, 24.VII.1997, V. Zaika leg. (MSU).

Zavkhan Province. Shilüüstei District: 2 exs., Zavkhan-gol River basin, brook (tributary of Buyant-gol River), 29.VII.1997, V. Zaika leg. (MSU).

***Agabus clavicornis* Sharp, 1882**

Literature records

Khövsgöl, Töv (Shaverdo et al. 2008).

New province records, material studied

Selenge Province. Yeröö District: 1 ex., Khandgai-nuur Lake, 49°03'16.9"N, 107°14'16.1"E, 16.VII.2014, G. Chuluunbaatar leg. 2 exs., vicinity of Khonin-nuga research station, Ulaanburgas limnocene, 49°03'51.4"N, 107°16'11.7"E, 25.VII.2015, G. Chuluunbaatar leg.

Uvs Province. Khovd District: 1 ex., Usankhooloi-gol River mouth, 05.VIII.1963, N. Balgan leg.

***Agabus costulatus* Motschulsky, 1859**

Literature records

Arkhangai, Bulgan, Khentii, Khövsgöl, Selenge, Töv, Zavkhan (Guéorguiev 1972; Shaverdo et al. 2008).

New province records, material studied

Bayan-Ölgii Province. Tsengel District: 1 ex., Khoton-nuur Lake, 03.VIII.1981, N. Balgan leg.

Övörkhangai Province. Uyanga District: 11 exs., Shireet-nuur Lake, 46°32'03.2"N, 101°50'46.9"E, 05.VII.2014, G. Chuluunbaatar leg.

***Agabus coxalis* Sharp, 1882**

Literature records

Arkhangai, Dornod, Govisumber, Khentii, Övörkhangai, Uvs, Zavkhan (Guéorguiev 1965, 1968a, 1969, 1972; Shaverdo et al. 2008).

New province records, material studied

Selenge Province. Shaamar District: 1 ex., artificial pond, 50°04'07.3"N, 106°06'39.1"E, 26.VII.1997, N. Balgan leg. Yeröö District: 1 ex., about 5 km from Khonin-nuga research station, Khandgai-nuur Lake, 49°03'16.9"N, 107°14'16.1"E, 16.VIII.2014, G. Chuluunbaatar leg.

Sükhbaatar Province. Dariganga District: 1 ex., Zegst-nuur Lake, 45°17'35.8"N, 113°49'58.0"E, 20.VI.2013, G. Chuluunbaatar leg.

Töv Province. Batsumber District: 2 exs., Khuurai-mukhar valley, limnocene, 48°16'10.6"N, 106°51'24.6"E, 17.VI.2011, G. Chuluunbaatar leg.

Agabus dichrous Sharp, 1878***Literature records***

Bulgan, Govi-Altai, Govisumber, Ulaanbaatar, Zavkhan (Gueorguiev 1968b, 1969, 1972; Shaverdo et al. 2008).

New province records, material studied

Bayan-Ölgii Province. Tolbo District: 4 exs., Tolbo-nuur Lake, 01.VII.2014, G. Chuluunbaatar leg. Bayannuur District: 1 ex., limnocene, 48°57'32"N, 90°50'11"E, 01.VII.2015, G. Chuluunbaatar leg.

Bayankhongor Province. Ölzii District: 1 ex., vicinity of Bayankhongor, Tuin-gol River, 46°02'16.9"N, 100°47'43.9"E, 29.VII.2010, G. Chuluunbaatar leg.

Ömnögovii Province. Gurvan tes District: 1 ex., Sukhait-bulag spring, 42°58'44.5"N, 101°27'32.9"E, 29.V.2010, G. Chuluunbaatar leg. 1 ex., Deliin-bulag spring, 42°58'29.7"N, 100°40'01.4"E, 26.V.2010, G. Chuluunbaatar leg. Khanbogd District: 1 ex., artificial pond in Oyu-tolgoi mining area, 42°58'22.3"N, 106°51'26.4"E, 14.VIII.2010, G. Chuluunbaatar leg.

Övörkhangaï Province. Uyanga District: 1 ex., Shorongiin-gol River, 46°28'47.7"N, 102°04'37.3"E, 04.VII.2014, G. Chuluunbaatar leg.

Selenge Province. Yeröö District: 1 ex., Bar-chuluut-gol River, 49°01'41.7"N, 107°11'53.3"E, 01.VII.2015, G. Chuluunbaatar leg.

Uvs Province. Sagil District: 1 ex., Kharig-gol River, 50°10'48.4"N, 90°52'52.5"E, 17.VI.2010, G. Chuluunbaatar leg.

Agabus infuscatus Aubé, 1838***Literature records***

Arkhangai, Töv, Zavkhan (Shaverdo et al. 2008).

New province record, material studied

Bayankhongor Province. Erdenetsogt District: 8 exs., Tuin-gol River, pools in floodplain, 46°22'18.6"N, 100°48'25.6"E, 12.VII.2009, A. Prokin leg. (IBIW).

Agabus japonicus continentalis Guéorguiev, 1970

First Mongolian records, material studied

Ömnögovı Province. Khanbogd District: 11 exs., Tsagaan-tolgoi spring, 43°10'01.3"N, 107°09'12.7"E, 19.VIII.2013, G. Chuluunbaatar leg. 2 exs., Ulaan-bulag spring, 43°07'17.7"N, 107°21'03.5"E, 19.VIII.2013, G. Chuluunbaatar leg. 11 exs., E of Oyu-tolgoi mining area, Buuriin-khuhiin-zadgai spring, 43°02'11.3"N, 107°12'24.2"E, 20.VIII.2013, G. Chuluunbaatar leg.

Agabus laferi Nilsson, 1994

Literature record

Arkhangai (Shaverdo et al. 2008).

New province record, material studied

Ulaanbaatar. Sükhbaatar District: 2 exs., Sanzai valley, limnocene, 48°07'04.4"N, 106°53'44.1"E, 17.VI.2015, G. Chuluunbaatar leg.

Agabus moestus (Curtis, 1835)

First Mongolian record, material studied

Selenge Province. Yeröö District: 1 ex., vicinity of Khonin-nuga research station, Ulaanburgas limnocene, 49°03'51.4"N, 107°16'11.7"E, 16.VIII.2014, G. Chuluunbaatar leg.

Agabus pallens Poppius, 1905

Literature records

Arkhangai, Khentii, Övörkhantai, Ulaanbaatar, Zavkhan (Guéorguiev 1968a, 1969; Brancucci 1982 (as '*Agabus (Eriglenus) labiatus* POPP.');

New province records, material studied

Bayan-Ölgii Province. Nogoonnuur District: 1 ex., Khavtsalin-gol River, 49°34'31.1"N, 90°00'45.7"E, 28.VI.2014, G. Chuluunbaatar leg.

Khövsgöl Province. Renchinlkhümbe District: 4 exs., western margin of Khövsgöl-nuur Lake, 50°47'16.3"N, 100°14'20.0"E, 02.VII.2015, G. Chuluunbaatar leg. Tsetserleg District: 1 ex., upper course of Tesiin-gol River, 49°28'59.1"N, 97°15'26.7"E, 14.VII.2015, G. Chuluunbaatar leg.

Agabus thomsoni* (Sahlberg, 1871)**First Mongolian records, material studied***

Övörkhангай Province. Ölzii District: 1 ex., Zygstiyn-gol River, 46°42'57.0"N, 103°14'17.9"E, 31.VIII.2010, A. Prokin leg. (IBIW).

Ulaanbaatar. Sükhbaatar District: 2 exs., Sanzai valley, limnocene, 48°07'04.4"N, 106°53'44.1"E, 28.VI.2015, G. Chuluunbaatar leg.

Ilybius lateralis* (Gebler, 1832)**Literature records***

Arkhangai, Khentii, Khövsgöl, Selenge (Guéorguiev 1968a; Shaverdo et al. 2008).

New province record, material studied

Uvs Province. Khovd District: 3 exs., Achit-nuur Lake, 49°26'23.7"N, 90°40'12.0"E, 05.VIII.1963, N. Balgan leg.

Ilybius obtusus* Sharp, 1882**Literature records***

Arkhangai, Khövsgöl, Zavkhan (Guéorguiev 1965; Shaverdo et al. 2008).

New province records, material studied

Övörkhангай Province. Taragt District: 1 ex., vicinity of Arvaikheer, Ongiin-gol River, 46°24'09.2"N, 102°50'10.2"E, 05.VII.2014, G. Chuluunbaatar leg.

Ulaanbaatar. Sükhbaatar District: 1 ex., limnocene, 48°07'04.4"N, 106°53'44.1"E, 28.VI.2015, G. Chuluunbaatar leg.

Ilybius subaeneus* Erichson, 1837**Literature record***

Arkhangai, Khövsgöl, Övörkhангай, Zavkhan (Shaverdo et al. 2008).

New province record, material studied

Ulaanbaatar. Bayanzurkh District: 1 ♂, Gachuurt environment, 1310 m a.s.l., 31.VII.2002, J. Straka leg. (NMPC).

Colymbetes dahuricus* Aubé, 1837**Literature records***

Arkhangai, Khovd, Selenge, Töv, Ulaanbaatar, Zavkhan (Bellstedt 1985; Guéorguiev 1969; Shaverdo et al. 2008).

New province records, material studied

Bayankhongor Province. Baatsagaan District: 1 ex., Baidarag-gol River, 45°37'49.8"N, 99°16'49.0"E, 10.VII.2009, Yu. Slyn'ko leg. (IBIW).

Bulgan Province. Teshig District: 2 exs., 90 km NNE Teshig, Boork-namag mire, ca. 50°00'N, 102°42'E, 21.VII.2010, A. Prokin leg. (IBIW).

Colymbetes dolabratus (Paykull, 1798)***First Mongolian records, material studied***

Bayan-Ölgii Province. Nogoонуур District: 1 ex., Khavtsalin-gol River, 49°34'31.1"N, 90°00'45.7"E, 28.VI.2014, G. Chuluunbaatar leg. Bayannuur District: 1 ex., limnocene, 48°57'32"N, 90°50'11"E, 01.VII.2015, G. Chuluunbaatar leg.

Khovd Province. Chandmani District: 1 ex., Khar Dorgon-Nogoонуур Lake, 47°54'54.1"N, 93°17'11.7"E, 02.IX.1977, N. Balgan leg.

Ömnögovi Province. Bulgan District: 1 ex., artificial pond, 10.IX.1970, N. Balgan leg.

Rhantus frontalis (Marsham, 1802)***Literature records***

Arkhangai, Dornod, Govisumber, Khentii, Ulaanbaatar, Uvs (Guéorguiev 1965, 1968a, 1969, 1972; Bellstedt 1985).

New province records, material studied

Bayan-Ölgii Province. Tolbo District: 1 ex., Tolbo-nuur Lake, 01.VII.2014, G. Chuluunbaatar leg.

Bulgan Province. Teshig District: 3 exs., Olon-nuur Lake, 49°55'11.7"N, 102°37'20.1"E, 24.VII.2009, A. Prokin leg. (IBIW).

Khovd Province. Chandmani District: 7 exs., Khar Dorgon-Nogoонуур Lake, 47°54'54.1"N, 93°17'11.7"E, 02.IX.1977, N. Balgan leg.

Övөрkhангай Province. Uyanga District: 1 ex., Shorongiin-gol River, 46°28'47.7"N, 102°04'37.3"E, 04.VII.2014, G. Chuluunbaatar leg. Taragt District: 1 ex., vicinity of Arvaikheer, Ongiin-gol River, near bridge, 46°24'09.2"N, 102°50'10.2"E, 05.VII.2014, G. Chuluunbaatar leg. Ölziit District: 1 ex., Zygstiyn-gol River, 46°42'57.0"N, 103°14'17.9"E, 30.VIII.2010, A. Prokin leg. (IBIW).

Selenge Province. Yeröö District: 1 ex., upper course of Yeröö-gol River, 49°05'18.6"N, 107°17'37.1"E, 16.VII.2014, G. Chuluunbaatar leg. 1 ex., vicinity of Khonin-nuga research station, Khandgai-nuur Lake, 49°03'16.9"N, 107°14'16.1"E, 16.VIII.2014, G. Chuluunbaatar leg. 3 exs., vicinity of Khonin-nuga research station,

Ulaanburgas limnocene, 49°03'51.4"N, 107°16'11.7"E, 16.VIII.2014, G. Chuluunbaatar leg.

Zavkhan Province. Telmen District: 1 ex., eastern margin of Telmen-nuur Lake, 48°49'15.7"N, 97°30'59.3"E, 25.VI.2014, G. Chuluunbaatar leg. Ikh-uul District: 3 exs., Iderin-gol River, 48°42'30.4"N, 98°41'08.7"E, 25.VI.2014, G. Chuluunbaatar leg.

***Rhantus rufus* Zimmermann, 1922**

First Mongolian record, material studied

Khentii Province. Ömnödelger District: 2 exs., Khurkh valley, Khulst-nuur Lake, 48°18'20.2"N, 110°19'04.3"E, 25.VII.2017, E. Byambanyam leg.

***Acilius canaliculatus* (Nicolai, 1822)**

Literature record

Bulgan (Enkhnasan 2006).

New province record, material studied

Selenge Province. Yeröö District: 2 exs., Bar-chuluut-gol River, 49°01'41.7"N, 107°11'53.3"E, 16.VIII.2014, G. Chuluunbaatar leg. 11 exs., vicinity of Khonin-nuga research station, Ulaanburgas limnocene, 49°03'51.4"N, 107°16'11.7"E, 16.VIII.2014 and 01.VII.2015, G. Chuluunbaatar leg.

***Acilius sulcatus* (Linnaeus, 1758)**

First Mongolian records, material studied

Selenge Province. Yeröö District: 1 ex., upper course of Yeröö-gol River, 49°05'18.6"N, 107°17'37.1"E, 16.VII.2014, G. Chuluunbaatar leg. 1 ex., Bar-chuluut-gol River, 49°01'41.7"N, 107°11'53.3"E, 16.VIII.2014, G. Chuluunbaatar leg. 1 ex., vicinity of Khonin-nuga research station, Khandgai-nuur Lake, 49°03'16.9"N, 107°14'16.1"E, 07.VIII.2015, G. Chuluunbaatar leg.

***Graphoderus austriacus* (Sturm, 1834)**

Literature records

Arkhangai, Dornod, Övörkhongai (Guéorguiev 1965, 1968a; Shaverdo et al. 2008).

New province record, material studied

Bayan-Ölgii Province. Bayannuur District: 1 ex., limnocene, 48°57'32"N, 90°50'11"E, 01.VII.2015, G. Chuluunbaatar leg.

***Graphoderus cinereus* (Linnaeus, 1758)**

Literature record

Sükhbaatar (Guéorguiev 1968a).

New province records, material studied

Arkhangai Province. Ölziit District: 1 ex., Orkhon-gol River, near bridge, 48°06'20.1"N, 102°34'34.4"E, 08.VII.2015, G. Chuluunbaatar leg.

Khovd Province. Chandmani District: 2 exs., Khar Dorgon-Nogoon-nuur Lake, 47°54'54.1"N, 93°17'11.7"E, 02.IX.1977, N. Balgan leg.

Uvs Province. Ömnögovi District: 1 ex., Orlogiin-gol River, 49°06'51.9"N, 91°38'04.8"E, 27.VI.2014, G. Chuluunbaatar leg.

Dytiscus circumcinctus Ahrens, 1811***First Mongolian records, material studied***

Khovd Province. Chandmani District: 1 ex., Khar Dorgon-Nogoon-nuur Lake, 47°54'54.1"N, 93°17'11.7"E, 02.IX.1977, N. Balgan leg.

Selenge Province. Yeröö District: 2 exs., upper course of Yeröö-gol River, 49°05'18.6"N, 107°17'37.1"E, 16.VII.2014, G. Chuluunbaatar leg.

Sükhbaatar Province. Dariganga District: 1 ex., Zegst-nuur Lake, 45°17'35.8"N, 113°49'58.0"E, 22.VIII.2013, A. Chananbaatar leg.

Töv Province. Altanbulag District: 1 ex., Hustai National Park, Tuul-gol River, 47°36'36.7"N, 106°0'56.9"E, 15.VI.2013, G. Chuluunbaatar leg.

Dytiscus dauricus Gebler, 1832***Literature records***

Arkhangai, Dornod, Khentii, Övörkhangai, Sükhbaatar, Töv, Ulaanbaatar, Zavkhan (Guéorguiev 1968a; Brancucci 1982; Bellstedt 1985; Shaverdo et al. 2008).

New province records, material studied

Bayankhongor Province. Baatsagaan District: 2 exs., Tsagaan-gol River, 45°29'07.3"N, 99°44'16.5"E, 06.VII.2009, A. Krylov leg. (IBIW).

Selenge Province. Yeröö District: 2 exs., upper course of Yeröö-gol River, 49°05'18.6"N, 107°17'37.1"E, 16.VII.2014, G. Chuluunbaatar leg. 5 exs., vicinity of Khonin-nuga research station, Khandgai-nuur Lake, 49°03'16.9"N, 107°14'16.1"E, 07.VIII.2015, G. Chuluunbaatar leg.

Hydaticus aruspex Clark, 1864***First Mongolian records, material studied***

Selenge Province. Yeröö District: 1 ex., upper course of Yeröö-gol River, 49°05'18.6"N, 107°17'37.1"E, 26.VI.2015, G. Chuluunbaatar leg. 6 exs., vicinity of

Khonin-nuga research station, Ulaanburgas limnocrone, 49°03'51.4"N, 107°16'11.7"E, 16.VIII.2014 and 01.VII.2015, G. Chuluunbaatar leg. 1 ex., Bar-chuluut-gol River, 49°01'41.7"N, 107°11'53.3"E, 01.VII.2015, G. Chuluunbaatar leg.

Ulaanbaatar. Bayanzurkh District: 1 ♂, 47°55'N, 107°06'E, I.1986, P. Pauliš leg. (NMPC).

***Hydaticus continentalis* Balfour-Browne, 1944**

First Mongolian records, material studied

Selenge Province. Yeröö District: 1 ex., vicinity of Khonin-nuga research station, Ulaanburgas limnocrone, 49°03'51.4"N, 107°16'11.7"E, 24.VII.2015, G. Chuluunbaatar leg.

Ulaanbaatar. Sükhbaatar District: 1 ex., limnocrone, 48°07'04.4"N, 106°53'44.1"E, 17.VI.2015, G. Chuluunbaatar leg.

***Bidessus nasutus* Sharp, 1887**

First Mongolian records, material studied

Khovd Province. Dörgon District: 1 ex., Khoton-nuur Lake, 48°9'54"N, 93°3'10"E, 23.VII.1997, collector unknown (IBIW).

Uvs Province. Davst District: 7 exs., vicinity of Uvs-nuur Lake, pools, 50°34'08.2"N, 92°28'49.9"E, 30.VII.2010, A. Prokin leg. (IBIW).

***Hydroglyphus geminus* (Fabricius, 1792)**

Literature records

Arkhangai, Khovd, Övörkhangai, Selenge, Töv, Uvs (Guéorguiev 1965, 1972; Bellstedt 1985; Shaverdo et al. 2008).

New province record, material studied

Ömnögovı Province. Khanbogd District: 2 exs., Ikh-bulag spring, 43°11'28.6"N, 107°11'50.5"E, 19.VIII.2013, E. Byambanyam leg. 1 ex., Baishint spring, 43°01'31.9"N, 107°12'06.7"E, 20.VIII.2013, E. Byambanyam leg.

***Hydroglyphus hamulatus* (Gyllenhal, 1813)**

Literature records

This species was recorded for Mongolia by Hájek (2017) and Nilsson and Hájek (2019) without detailed locality information.

First province record, material studied

Khovd Province. Dörgen District: 2 exs., Dörgen Reservoir near Chono-Chariakha-gol River, pools, 48°17'33.6"N, 92°59'46.6"E, 25.VIII.2017, A.S. Sazhnev leg. (IBIW).

Hydroglyphus trassaerti* (Feng, 1936)**First Mongolian records, material studied***

Arkhangai Province. Khotont District: 6 exs., pools, ca. 20 km NW Kharkhorin, 06.VIII.2002, M. Omesová leg. (NMPC). The specimens were collected in the border area of Arkhangai Province (Khotont District) and Övörkhangai Province (Kharkhorin District).

Töv Province. Öndörshireet District: 1 ♂, 1 ♀, Tuul-gol River, ca. 1.5 km W Tuul Ovoot bridge, downstream of road to Arvaikheer, 47°18'39.5"N, 105°16'16.3"E, 1042 m a.s.l., 03–04.VII.2004, A.E.Z. Short leg. (NHMW).

Hydroporus nigellus* Mannerheim, 1853**Literature records***

Mongolia (Motschulsky 1853; Sharp 1882; Zimmermann 1931; Feng 1932), as *H. tartaricus* LeConte, 1850; Khentii, Khovd, Övörkhangai, Selenge, Töv, Ulaanbaatar, Ulaanbaatar/Baganuur (Guéorguiev 1968a, 1969; Brancucci 1982; Bellstedt 1985; Shaverdo et al. 2008).

New province records, material studied

Arkhangai Province. Chuluut District: 1 ♂, 1 ♀, 100 km NW Tsetserleg, Chuluut-gol River, 47°48.5'N, 100°19'E, 1940 m a.s.l., 18.VII.2004, J. Straka leg. (NMPC).

Ulaanbaatar. Nalaikh District: 2 ♀, 50 km E Ulaanbaatar, Terelj National Park, Turtle rock, 13.VII.2002, J. Straka leg. (NMPC).

Hydroporus uenoi* Nakane, 1963**Literature records***

Arkhangai, Khentii, Selenge, Töv, Zavkhan (Shaverdo 2004; Shaverdo et al., 2008).

New province record, material studied

Bulgan Province. ?Bulgan District: 7 exs., vicinity of Bulgan, 06.VIII.1965, J. Dlabola leg. (NMPC).

Boreonectes aff. emmerichi* (Falkenström, 1936)**Literature record***

This species was recorded as *Potamonectes griseostriatus* (De Geer, 1774) from 'central Mongolia' by Zaitzev (1953). Since *P. griseostriatus* (currently placed in the genus *Boreonectes* Angus, 2010) was split cytogenetically into several taxa by Dutton and Angus (2007), Hans Fery tentatively identified the specimens from Mongolia as *Boreonectes aff. emmerichi* (see also Angus et al. 2015) based on morphological characters, but further studies are necessary for an unambiguous identification.

First province record, material studied

Bayan-Ölgii Province. Ulaankhus District: 1 ex., unnamed River, 49°17'26.3"N, 88°40'20.9"E, 29.VI.2014, G. Chuluunbaatar leg. 2 exs., Khukh-hutul, Ikh Oigur-gol River, 49°15'32.7"N, 88°30'26.0"E, 01.VII.2014, G. Chuluunbaatar leg. Bayannuur District: 2 exs., limnocrone, 48°57'32"N, 90°50'11"E, 01.VII.2015, G. Chuluunbaatar leg.

Nebrioporus airumlus* (Kolenati, 1845)*Literature records**

Arkhangai, Bayankhongor, Bulgan, Khövsgöl, Övörkhongai, Selenge, Uvs (Gueorguiev 1965, 1972; Shaverdo et al. 2008).

New province records, material studied

Bayan-Ölgii Province. Nogoonnur District: 1 ex., Khavtsalin-gol River, 49°34'31.1"N, 90°00'45.7"E, 28.VI.2014, G. Chuluunbaatar leg.

Ömnögovii Province. Khanbogd District: 12 exs., E of Oyu-tolgoi mining area, Baga-bulag spring, 43°11'33.0"N, 107°07'26.8"E, 22.VIII.2013, G. Chuluunbaatar leg. 7 exs., Ikh-bulag spring, 43°11'28.6"N, 107°11'50.5"E, 19.VIII.2013, G. Chuluunbaatar leg. 14 exs., Baishint spring, 43°01'31.9"N, 107°12'06.7"E, 19.VIII.2013, G. Chuluunbaatar leg. 8 exs., Tsagaan-tolgoi spring, 43°10'01.3"N, 107°09'12.7"E, 19.VIII.2013, G. Chuluunbaatar leg. 27 exs., artificial pond, 42°48'32.6"N, 107°00'11.2"E, 18.VIII.2013, G. Chuluunbaatar leg. 22 exs., Buuriin-khuhiin-zadgai spring, 43°02'11.3"N, 107°12'24.2"E, 20.VIII.2013, G. Chuluunbaatar leg.

Nebrioporus assimilis* (Paykull, 1798)*First Mongolian record, material studied**

Zavkhan Province. Nömrög District: 1 ex., Burgasni-bulag spring, 48°52'42.7"N, 96°58'48.5"E, 25.VI.2014, G. Chuluunbaatar leg.

Nebrioporus depressus* (Fabricius, 1775)*Literature record**

Khövsgöl (Shaverdo et al. 2008).

New province record, material studied

Govi-Altai Province. Taishir District: 2 exs., Zavkhan-gol River upstream of Taishir Reservoir, 46°39'22.7"N, 96°52'15.4"E, 22.VIII.2017, A.S. Sazhnev leg. (IBIW).

Nebrioporus hostilis* (Sharp, 1884)*Literature record**

Bayankhongor (Prokin and Zhavoronkova 2015).

New province records, material studied

Arkhangai Province. Ölzii District: 1 ex., Orkhon-gol River, near bridge, 48°06'20.1"N, 102°34'34.4"E, 17.VI.2015, G. Chuluunbaatar leg.

Govi-Altai Province. Taishir District: 1 ex., Zavkhan-gol River downstream of Taishir Reservoir, 46°38'50.9"N, 96°52'45.5"E, 18.VIII.2016, A.S. Sazhnev leg. (IBIW).

Nectoporus sanmarkii (Sahlberg, 1826)

Literature records

Arkhangai, Khovd, Khövsgöl, Övörkhantai, Selenge, Töv, Zavkhan (Guéorguiev 1965, 1968b, 1972; Shaverdo et al. 2008).

New province records, material studied

Bayan-Ölgii Province. Ulaankhus District: 2 exs., unnamed River, 49°17'26.3"N, 88°40'20.9"E, 29.VI.2014, G. Chuluunbaatar leg.

Uvs Province. Khovd District: 3 exs., Shivertiin-gol River, 49°31'54.8"N, 91°9'5.2"E, 27.VI.2014, G. Chuluunbaatar leg. Sagil District: 1 ex., Kharig-gol River, 50°10'48.4"N, 90°52'52.5"E, 17.VI.2010, G. Chuluunbaatar leg.

Oreodytes septentrionalis (Gyllenhal, 1826)

Literature records

Arkhangai, Khentii, Khövsgöl, Övörkhantai, Ulaanbaatar/Baganuur, Uvs, Zavkhan (Guéorguiev 1965, 1968a, b, 1972; Brancucci 1982; Shaverdo et al. 2008).

New province record, material studied

Selenge Province. Khüder District: 1 ex., Khüder-gol River, 49°48'14.2"N, 107°28'32.3"E, 14.VI.2014, G. Chuluunbaatar leg.

Zaitzevhydrus formaster (Zaitzev, 1908)

Literature records

Arkhangai, Zavkhan (Bellstedt 1985; Shaverdo et al. 2008).

New province records, material studied

Bayan-Ölgii Province. Tolbo District: 10 exs., Khar-nuur Lake, 48°41'39.9"N, 88°15'31.3"E, 02.VII.1981, N. Balgan leg. Tsengel District: 11 exs., Khovd-gol River, 48°43'22.6"N, 88°52'33.5"E, 1988, N. Balgan leg.

Khövsgöl Province. Renchinlkhümbe District: 61 exs., western margin of Khövsgöl-nuur Lake, 50°47'16.3"N, 100°14'20.0"E, 07.VII.2015, G. Chuluunbaatar leg.

Övörkhangai Province. Ölzii District: 2 exs., Zygstiyn-gol River, 46°42'57.0"N, 103°14'17.9"E, 31.VIII.2010, A. Prokin leg. (IBIW).

***Hygrotus confluens* (Fabricius, 1787)**

First Mongolian record, material studied

Ömnögovı Province. Khanbogd District: 2 exs., Ulaan-bulag spring, 43°07'17.7"N, 107°21'03.5"E, 19.VIII.2013, G. Chuluunbaatar leg.

***Hygrotus enneagrammus* (Ahrens, 1833)**

Literature record

Dornod, Khövsgöl, Uvs (Guéorguiev 1972).

New province records, material studied

Ömnögovı Province. Khanbogd District: 2 exs., Ikh-bulag spring, 43°11'28.6"N, 107°11'50.5"E, 19.VIII.2013, G. Chuluunbaatar leg. 6 exs., Gashuun-sukhait spring, 42°44'48.1"N, 107°58'23.6"E, 17.VIII.2013, G. Chuluunbaatar leg.

Töv Province. Nalaikh District: 1 ex., Bus-nuur Lake, 47°46'36.1"N, 107°20'24.8"E, 04.VII.2014, G. Chuluunbaatar leg.

Zavkhan Province. Telmen District: 1 ex., eastern margin of Telmen-nuur Lake, 48°49'15.7"N, 97°30'59.3"E, 25.VI.2014, G. Chuluunbaatar leg.

***Hygrotus flaviventris* (Motschulsky, 1860)**

Literature records

Arkhangai, Bulgan, Dornod, Dornogovi, Dundgovi, Govisumber, Khentii, Khovd, Ömnögovı, Ulaanbaatar/Baganuur (Guéorguiev 1965, 1968a, b, 1969; Shaverdo et al. 2008).

New province records, material studied

Övörkhangai Province. Baruun Bayan-Ulaan District: 2 exs., margin of Tatsyn-Tsagaan-nuur Lake, 14.VIII.2017, A.S. Sazhnev leg. (IBIW).

Uvs Province. Davst District: 6 exs., vicinity of Uvs-nuur Lake, pool, 50°34'08.2"N, 92°28'49.9"E, 30.VII.2010, A. Prokin leg. (IBIW).

***Hygrotus impressopunctatus* (Schaller, 1783)**

Literature records

Arkhangai, Bayankhongor, Bayan-Ölgii, Bulgan, Govi-Altai, Govisumber, Khentii, Khovd, Khövsgöl, Övörkhangai, Sükhbaatar, Töv, Ulaanbaatar, Ulaanbaatar/Baganuur, Uvs, Zavkhan (Guéorguiev 1965, 1968a, b, 1969, 1972; Brancucci, 1982; Bellstedt 1985; Shaverdo et al. 2008).

New province records, material studied

Darkhan-Uul Province. Orkhon District: 1 ex., vicinity of Darkhan, small oxbow lake in Orkhon-gol floodplain, 49°40'5"N, 105°52'46"E, 26.VII.2009, A. Prokin leg. (IBIW).

Selenge Province. Sükhbaatar District: 3 ex., south of Sükhbaatar, ca. 50°10'41"N, 106°11'42"E, pools in Orkhon-gol River floodplain, 17.VII.2009, A. Prokin leg. (IBIW). Yeröö District: 2 exs., vicinity of Khonin-nuga research station, Ulaanburgas limnocene, 49°03'51.4"N, 107°16'11.7"E, 01.VII.2015, G. Chuluunbaatar leg.

Hygrotus inaequalis (Fabricius, 1777)***Literature records***

Arkhangai, Selenge, Töv (Guéorguiev 1972; Bellstedt 1985; Shaverdo et al. 2008).

New province records, material studied

Bulgan Province. Teshig District: 1 ex., Olon-nuur Lake, 49°55'11.7"N, 102°37'20.1"E, 24.VII.2009, A. Prokin leg. (IBIW).

Uvs Province. Davst District: 3 exs., vicinity of Uvs-nuur Lake, pool, 50°34'08.2"N, 92°28'49.9"E, 30.VII.2010, A. Prokin leg. (IBIW).

Hygrotus marklini (Gyllenhal, 1813)***Literature records***

Arkhangai, Bulgan, Dornogovi, Govi-Altai, Govisumber, Khentii, Khövsgöl, Ömnögovii, Övörkhantai, Selenge, Sükhbaatar, Ulaanbaatar, Ulaanbaatar/Baganuur, Zavkhan (Guéorguiev 1965, 1968a, b, 1969, 1972; Brancucci 1982; Bellstedt 1985; Shaverdo et al. 2008).

New province records, material studied

Bayan-Ölgii Province. Tolbo District: 1 ex., Khar-nuur Lake, 48°41'39.9"N, 88°15'31.3"E, 02.VII.1981, N. Balgan leg. Tsagaannuur District: 1 ex., unnamed river, 49°22'10.7"N, 89°09'18.0"E, 29.VI.2014, G. Chuluunbaatar leg. Ulaankhus District: 1 ex., unnamed river, 49°17'26.3"N, 88°40'20.9"E, 29.VI.2014, G. Chuluunbaatar leg.

Dornod Province. Khalkhgol District: 3 exs., Buir-nuur Lake, 47°51'47.0"N, 117°51'29.0"E, 31.VII.2015, G. Chuluunbaatar leg.

Dundgovi Province. Bayanjargalan District: 2 exs., limnocene, 45°57'39.5"N, 108°16'47.2"E, 14.VIII.2015, G. Chuluunbaatar leg.

Hygrotus nigrolineatus (Steven, 1808)***Literature records***

Arkhangai, Bulgan, Dornod, Khovd, Övörkhantai (Zaitzev 1953; Guéorguiev 1968b; Shaverdo et al. 2008).

New province record, material studied

Ömnögovi Province. Khanbogd District: 2 exs., Ikh-bulag spring, 43°11'28.6"N, 107°11'50.5"E, 19.VIII.2013, G. Chuluunbaatar leg.

Hygrotus parallelogrammus (Ahrens, 1812)***Literature record***

Bayankhongor (Fery 2003).

New province records, material studied

Khövsgöl Province. Renchinkhümbe District: 7 exs., western margin of Khövsgöl-nuur Lake, 50°47'16.3"N, 100°14'20.0"E, 08.VII.2015, G. Chuluunbaatar leg.

Övörkhangai Province. Baruun Bayan-Ulaan District: 1 ex., margin of Tatsyn-Tsagaan-nuur Lake, 14.VIII.2017, A.S. Sazhnev leg. (IBIW).

Selenge Province. Sүkhbaatar District: 1 ex., south of Sүkhbaatar, pools in Orkhongol River floodplain, ca. 50°10'41"N, 106°11'42"E, 17.VII.2009, A. Prokin leg. (IBIW).

Hygrotus pectoralis (Motschulsky, 1860)***Literature record***

Zavkhan (Shaverdo et al. 2008).

New province record, material studied

Uvs Province. Davst District: 6 exs., vicinity of Uvs-nuur Lake, pool, 50°34'08.2"N, 92°28'49.9"E, 30.VII.2010, A. Prokin leg. (IBIW).

Hygrotus quinquelineatus (Zetterstedt, 1828)***Literature records***

Arkhangai, Khövsgöl, Övörkhangai, Төв, Ulaanbaatar, Zavkhan (Guéorguiev 1969; Brancucci 1982; Shaverdo et al. 2008).

New province record, material studied

Selenge Province. Yeröö District: 14 exs., upper course of Yeröö-gol River, 49°05'18.6"N, 107°17'37.1"E, 05–16.VIII.2008, G. Chuluunbaatar leg.

Hygrotus unguicularis (Crotch, 1834)***Literature records***

Arkhangai, Bulgan, Govi-Altai, Govisүmber, Khovd, Övörkhangai, Ulaanbaatar, Ulaanbaatar/Baganuur, Uvs, Zavkhan (Jakowlew 1899; Guéorguiev 1968a, b, 1969, 1972; Bellstedt 1985; Shaverdo et al. 2008).

New province record, material studied

Khövsgöl Province. Renchinlkhümbe District: 1 ex., western margin of Khövsgöl-nuur Lake, 50°47'16.3"N, 100°14'20.0"E, 08.VII.2015, G. Chuluunbaatar leg.

Laccornis oblongus (Stephens, 1835)

First Mongolian record, material studied

Selenge Province. Yeröö District: 1 ex., vicinity of Khonin-nuga research station, Ulaanburgas limnocrene, 49°03'51.4"N, 107°16'11.7"E, 24.VII.2015, G. Chuluunbaatar leg.

Laccophilus biguttatus Kirby, 1837

Literature records

Arkhangai, Bulgan, Dornod, Govisumber, Khentii, Khövsgöl, Övörkhangai, Töv, Ulaanbaatar, Ulaanbaatar/Baganuur, Zavkhan (Guéorguiev 1965, 1968a, 1969; Brancucci 1982; Bellstedt 1985; Shaverdo et al. 2008).

New province record, material studied

Bayankhongor Province. Erdenetsogt District: 3 exs., Tuin-gol River, pools in floodplain, 46°22'18.6"N, 100°48'25.6"E, 12.VII.2009, A. Prokin leg. (IBIW).

Family Helophoridae Leach, 1815

Helophorus bergrothi Sahlberg, 1880

First Mongolian record, material studied

Selenge Province. Yeröö District: 1 ex., vicinity of Khonin-nuga research station, Khandgai-nuur Lake, 49°03'16.9"N, 107°14'16.1"E, 28.VI.2016, G. Chuluunbaatar leg.

Helophorus carsoni Angus, 1970

Literature records

Bayankhongor, Bayan-Ölgii, Khovd, Khövsgöl, Övörkhangai, Ulaanbaatar/Baganuur, Zavkhan (Angus 1970a; Bellstedt 1985).

New province records, material studied

Darkhan-Uul Province. Orkhon District: 1 ex., vicinity of Darkhan, small oxbow lake in Orkhon-gol River floodplain, 49°40'5"N, 105°52'46"E, 26.VII.2009, A. Prokin leg. (IBIW).

Uvs Province. Ulaangom District: 9 exs., Borshoo-gol River (tributary of Uvs-nuur Lake), 50°19'28.4"N, 92°09'01.1"E, 02.VIII.2010, A. Prokin leg. (IBIW).

Helophorus hammondi* Angus, 1970**Literature records***

Arkhangai, Bayan-Ölgii, Dornod, Khentii, Ulaanbaatar (Angus 1970b; Bellstedt 1985).

New province records, material studied

Bayankhongor Province. Erdenetsogt District: 2 exs., Tuin-gol River, pools in flood-plain, 46°22'18.6"N, 100°48'25.6"E, 12.VII.2009, A. Prokin leg. (IBIW).

Uvs Province. Ulaangom District: 6 exs., Borshoo-gol River (tributary of Uvs-nuur Lake), 50°19'28.4"N, 92°09'01.1"E, 02.VIII.2010, A. Prokin leg. (IBIW).

Helophorus kaszabianus* Angus, 1970**Literature records***

Bayan-Ölgii, Khovd (Angus 1970a; Bellstedt 1985).

New province record, material studied

Uvs Province. Öndörkhongai District: 4 exs., 240 km ESE Ulaangom, 4 km E Sayl-Ulaan Mountain, 1415 m a.s.l., at light, 48°59'00"N, 94°59'01"E, 20–21.VII.2015, A. Prosvirov leg. (IBIW).

Helophorus kryzanovskii* Angus, 1984**First Mongolian records, material studied***

Khentii Province. Ömnödelger District: 1 ex., Khurkh valley, Khulst-nuur Lake, 48°18'20.2"N, 110°19'04.3"E, 25.VIII.2015, G. Chuluunbaatar leg.

Khövsgöl Province. Alag-Erdene District: 2 exs., Sagsaga pass, limnocrene, 50°27'53.9"N, 100°21'32.0"E, 10.VII.2015, G. Chuluunbaatar leg.

Selenge Province. Yeröö District: 4 exs., vicinity of Khonin-nuga research station, Khandgai-nuur Lake, 49°03'16.9"N, 107°14'16.1"E, 03.VII.2015, G. Chuluunbaatar leg. 1 ex., Bar-chuluut-gol River, 49°01'41.7"N, 107°11'53.3"E, 03.VII.2015, G. Chuluunbaatar leg. 4 exs., vicinity of Khonin-nuga research station, Ulaanburgas limnocrene, 49°03'51.4"N, 107°16'11.7"E, 26.VI.2015, G. Chuluunbaatar leg.

Ulaanbaatar. Sükhbaatar District: 1 ex., limnocrene, 48°07'04.4"N, 106°53'44.1"E, 28.VI.2015, G. Chuluunbaatar leg.

Helophorus parajacutus* Angus, 1970**Literature records***

Arkhangai, Bayan-Ölgii, Khentii, Khovd, Khövsgöl, Ulaanbaatar/Baganuur, Uvs (Angus 1970a; Bellstedt 1985). The holotype of this species was recorded from 'Central aimak' by Angus (1970a), but it was actually collected in Khövsgöl Province.

New province records, material studied

Govi-Altai Province. Taishir District: 6 exs., Zavkhan-gol River upstream of Taishir Reservoir, pools in floodplain, 46°41'37.5"N, 96°39'29.4"E, 08.VIII.2010, A. Prokin leg. (IBIW). Delger District: 1 ex., 2 km NW Delger, small lake with sandy bottom, 46°23'49.0"N, 97°19'02.1"E, 15.VIII.2016, A.S. Sazhnev leg. (IBIW).

Övörkhangaï Province. Baruun Bayan-Ulaan District: 1 ex., vicinity of Baruun Bayan-Ulaan, shore of Tatsyn-Tsagaan-nuur Lake, 45°09'47.4"N, 101°29'13.8"E, 10.VIII.2016, A.S. Sazhnev leg. (IBIW).

Helophorus praenanus Łomnicki, 1894***Literature record***

Arkhangai, Dornod, Khentii, Khövsgöl, Ulaanbaatar/Baganuur (Angus 1970a).

New province records, material studied

Övörkhangaï Province. Uyanga District: 3 exs., Shireet-nuur Lake, 46°30'50.8"N, 101°51'22.8"E, 04.VII.2014 and 21.VII.2015, G. Chuluunbaatar leg.

Selenge Province. Yeröö District: 2 exs., vicinity of Khonin-nuga research station, Ulaanburgas limnocene, 49°03'51.4"N, 107°16'11.7"E, 19.VIII.2014 and 24.VII.2015, G. Chuluunbaatar leg.

Helophorus timidus Motschulsky, 1860***First Mongolian records, material studied***

4 exs., 'NW Mongolia, spring, 07.08.1997 (4 exs.) [sic!] Pereg leg.' (IBIW).

Selenge Province. Yeröö District: 1 ex., Bar-chuluut-gol River, 49°01'41.7"N, 107°11'53.3"E, 01.VII.2015, G. Chuluunbaatar leg. 1 ex., vicinity of Khonin-nuga research station, Ulaanburgas limnocene, 49°03'51.4"N, 107°16'11.7"E, 24.VI.2015, G. Chuluunbaatar leg.

Ulaanbaatar. Sükhbaatar District: 1 ex., limnocene, 48°07'04.4"N, 106°53'44.1"E, 09.VIII.2015, G. Chuluunbaatar leg.

Family Hydrophilidae Latreille, 1802***Berosus fischeri Schödl, 1993******Literature records***

Arkhangai, Bayankhongor, Bulgan, Dornod, Khentii, Khovd, Övörkhangaï, Selenge, Töv (Schödl 1993b; Short and Kanda 2006).

New province record, material studied

Govi-Altai Province. Taishir District: 1 ex., Zavkhan-gol River upstream of Taishir Reservoir, pools, 46°41'37.5"N, 96°39'29.4"E, 8.VIII.2012, A. Prokin leg. (IBIW).

Berosus fulvus* Kuwert, 1888**Literature records***

Arkhangai, Bulgan, Dornod, Dundgovi, Khentii, Khovd, Khövsgöl, Ömnögovi, Övörkhangai, Selenge, Töv, Uvs (Schödl 1991; Short and Kanda 2006).

New province records, material studied

Govi-Altai Province. Taishir District: 6 exs., Zavkhan-gol River upstream of Taishir Reservoir, pools in floodplain, 46°41'37.5"N, 96°39'29.4"E, 08.VIII.2010, A. Prokin leg. (IBIW).

Zavkhan Province. Dörvöljin District: 1 ex., eastern part of Nogoön-nuur Lake, ca. 47°56'32"N, 93°15'21"E, 10.VIII.2010, A. Prokin leg. (IBIW).

Berosus punctipennis* Harold, 1878**Literature records***

Dornod, Govi-Altai, Töv (Schödl 1993a; Short and Kanda 2006).

New province records, material studied

Bayankhongor Province. Baatsagaan District: 2 exs., Tsagaan-gol River, 45°29'07.3"N, 99°44'16.5"E, 6.VII.2009, A. Krylov leg. (IBIW).

Selenge Province. Sükhbaatar District: 2 exs., vicinity of Sükhbaatar, pool in Orkhongol River floodplain, 50°10'44.0"N, 106°11'20.5"E, 17.VII.2009, A. Prokin leg. (IBIW).

Cercyon bifenstratus* Küster, 1851**Literature record***

Dornod (Ryndevich 2003).

New province records, material studied

Govi-Altai Province. Taishir District: 3 exs., Zavkhan-gol River upstream of Taishir Reservoir, 46°39'22.7"N, 96°52'15.4"E, 22.VIII.2017, A.S. Sazhnev leg. (IBIW).

Övörkhangai Province. Baruun Bayan-Ulaan District: 1 ex., 'Uverkhanganskiy aymak, bliz vost. ber. oz. [near eastern margin of lake] Tatsyn-Tsagan-Nur [Tatsyn-Tsagaan-nuur Lake], 02–04.VIII.[1]969, I.M. Kerzhner [leg.]' [in Russian] (ZISP).

Selenge Province. Yeröö District: 1 ex., upper course of Yeröö-gol River, 49°05'18.6"N, 107°17'37.1"E, 02.VIII.2015, G. Chuluunbaatar leg.

Cercyon marinus* Thomson, 1853**Literature records***

This species was recorded for Mongolia by Hansen (2004) and Fikáček et al. (2015) without detailed locality information.

New province records, material studied

Selenge Province. Yeröö District: 1 ex., vicinity of Khonin-nuga research station, Ulaanburgas limnocrene, 49°03'51.4"N, 107°16'11.7"E, 01.VII.2015, G. Chuluunbaatar leg. 1 ex., Bar-chuluut-gol River, 49°01'41.7"N, 107°11'53.3"E, 03.VII.2015, G. Chuluunbaatar leg.

Ulaanbaatar. Sükhbaatar District: 4 exs., 48°07'04.4"N, 106°53'44.1"E, 28.VI.2015, G. Chuluunbaatar leg.

Cercyon quisquilius (Linnaeus, 1761)***Literature records***

Arkhangai, Bayankhongor, Khentii, Khövsgöl, Ömnögovi, Töv, Uvs, Zavkhan (Bellstedt 1985; Korsun et al. 2012; Ryndevich et al. 2017).

New province record, material studied

Khovd Province. Dörögen District: 10 exs., Dörögen Reservoir near Chono-Chariakha-gol River, pools, 48°17'33.6"N, 92°59'46.6"E, 25.VIII.2017, A.S. Sazhnev leg. (IBIW).

Crenitis apicalis (Reitter, 1896)***First Mongolian records, material studied***

Bayan-Ölgii Province. Tolbo District: 2 exs., Tolbo-nuur Lake, 01.VII.2014, G. Chuluunbaatar leg.

Selenge Province. Yeröö District: 23 exs., Bar-chuluut-gol River, 49°01'41.7"N, 107°11'53.3"E, 01.VII.2015, G. Chuluunbaatar leg. 2 exs., Khar Tuulait-gol River, 49°10'31.6"N, 107°30'36.0"E, 02.VII.2015, G. Chuluunbaatar leg.

Ulaanbaatar. Sükhbaatar District: 34 exs., 48°07'04.4"N, 106°53'44.1"E, 08.IX.2015, G. Chuluunbaatar leg.

Enochrus coarctatus (Gredler, 1863)***First Mongolian records, material studied***

Selenge Province. Yeröö District: 6 exs., vicinity of Khonin-nuga research station, Khandgai-nuur Lake, 49°03'16.9"N, 107°14'16.1"E, 07.VIII.2015, G. Chuluunbaatar leg. 3 exs., vicinity of Khonin-nuga research station, Ulaanburgas limnocrene, 49°03'51.4"N, 107°16'11.7"E, 26.VI.2015, G. Chuluunbaatar leg.

Enochrus melanocephalus (Olivier, 1792)***First Mongolian record, material studied***

Arkhangai Province. Ölzii District: 1 ex., Orkhon-gol River, near bridge, 48°06'20.1"N, 102°34'34.4"E, 08.VII.2015, G. Chuluunbaatar leg.

Enochrus quadripunctatus* (Herbst, 1797)**Literature record***

Arkhangai, Bulgan, Övörkhangai, Töv, Zavkhan (Short and Kanda 2006).

New province records, material studied

Bayankhongor Province. Bogd District: 1 ex., Orog-nuur Lake, 45°04'10.2"N, 100°40'56.9"E, 26.VIII.2010, A. Prokin leg. (IBIW).

Khentii Province. Ömnödelger District: 1 ex., Khurkh valley, Khulst-nuur Lake, 48°18'20.2"N, 110°19'04.3"E, 25.VII.2017, E. Byambanyam leg.

Khövsgöl Province. Renchinlkhümbe District: 1 ex., western margin of Khövsgöl-nuur Lake, 50°47'16.3"N, 100°14'20.0"E, 19.VI.2015, G. Chuluunbaatar leg.

Selenge Province. Yeröö District: 1 ex., Bar-chuluut-gol River, 49°01'41.7"N, 107°11'53.3"E, 01.VII.2015, G. Chuluunbaatar leg. 1 ex., vicinity of Khonin-nuga research station, Ulaanburgas limnocrone, 49°03'51.4"N, 107°16'11.7"E, 24.VII.2015, G. Chuluunbaatar leg.

Uvs Province. Davst District: 1 ex., Torkhilog-gol River, 50°33'13.9"N, 92°29'36.8"E, 31.VII.2010, A. Prokin leg. (IBIW).

Enochrus segmentinotatus* (Kuwert, 1888)**Literature record***

Arkhangai, Khovd (Schödl 1998).

New province records, material studied

Bayankhongor Province. Bogd District: 1 ex., Tuin-gol River mouth, pools, 45°09'21.5"N, 100°46'53.1"E, 4.VII.2009, A. Prokin leg. (IBIW).

Bulgan Province. Teshig District: 3 exs., Olon-nuur Lake, 49°55'11.7"N, 102°37'20.1"E, 24.VII.2009, A. Prokin leg. (IBIW).

Övörkhangai Province. Ölzii District: 1 ex., vicinity of Sangyin-Dalay-nuur Lake, 46°40'19.7"N, 103°18'06.1"E, 31.VIII.2010, A. Prokin leg. (IBIW).

Uvs Province. Davst District: 14 exs., vicinity of Uvs-nuur Lake, 50°34'08.2"N, 92°28'49.9"E, 30.VII.2010, A. Prokin leg. (IBIW).

Enochrus testaceus* (Fabricius, 1801)**First Mongolian record, material studied***

Bayan-Ölgii Province. Nogoonnur District: 4 exs., spring, 49°33'55.3"N, 90°11'12.0"E, 1986, N. Balgan leg.

Hydrochara affinis* (Sharp, 1873)**Literature record***

Bulgan (Smetana 1980).

New province records, material studied

Arkhangai Province. Ölzii District: 1 ex., Orkhon-gol River, near bridge, 48°06'20.1"N, 102°34'34.4"E, 08.VII.2015, G. Chuluunbaatar leg.

Selenge Province. Sühkbaatar District: 3 exs., south of Sühkbaatar, pools in Orkhon-gol River floodplain, ca. 50°10'41"N, 106°11'42"E, 17.VII.2009, A. Prokin leg. (IBIW).

Hydrophilus dauricus* Mannerheim, 1852**Literature record***

This species was recorded for Mongolia by Jakobson (1913) without detailed locality information.

First province records, material studied

Arkhangai Province. Ogii nuur District: 9 exs., Ogii-nuur Lake, 47°45'46.8"N, 102°44'34.1"E, 2005, A. Chananbaatar leg. Ölzii District: 11 exs., Orkhon-gol River, near bridge, 48°06'20.1"N, 102°34'34.4"E, 10.VII.2015, G. Chuluunbaatar leg.

Bulgan Province. Teshig District: 1 ex., 90 km NNE Teshig, Boork-namag mire, ca. 50°00'00"N, 102°42'00"E, 21.VII.2010, A. Prokin leg. Hyalganat District: 1 ex., Selenge-gol River, 49°30'32.7"N, 104°19'09.9"E, 13.VII.2010, G. Chuluunbaatar leg.

Dornod Province. Khalkhgol District: 1 ex., Khalkh-gol River, 47°38'09.6"N, 118°37'53.5"E, 2006, N. Balgan leg. 1 ex., Buir-nuur Lake, 47°51'47"N, 117°51'29"E, 21.VI.2008, G. Chuluunbaatar leg.

Khentii Province. Bayan-Adarga District: 2 exs., Onon-gol River, 48°33'58.7"N, 111°03'17.9"E, 16.VI.2008, G. Chuluunbaatar leg.

Ömnögovi Province. Bulgan District: 1 ex., artificial pond, 10.IX.1970, N. Balgan leg.

Laccobius cinereus* Motschulsky, 1860**Literature records***

Arkhangai, Bayankhongor, Bulgan, Dornod, Khentii, Khovd, Övörkhongai, Ulaanbaatar, Ulaanbaatar/Baganuur, Uvs, Zavkhan (Gentili 1973, 1995; Bellstedt 1985; Short and Kanda 2006).

New province records, material studied

Selenge Province. Sühkbaatar District: 1 ex., south of Sühkbaatar, pools in Orkhon-gol River floodplain, ca. 50°10'41"N, 106°11'42"E, 17.VII.2009, A. Prokin leg. (IBIW).

Sükhbaatar Province. Dariganga District: 2 exs., Dagshin-bulag spring, 45°17'29.2"N, 113°51'21.9"E, 25.VI.2008, A. Chananbaatar leg.

***Laccobius decorus* (Gyllenhal, 1827)**

Literature record

Bayankhongor (Gentili 1973).

New province records, material studied

Bayan-Ölgii Province. Tsengel District: 1 ex., Khovd-gol River, 47°58'24.3"N, 93°15'52.1"E, 1988, N. Balgan leg.

Govi-Altai Province. Delger District: 1 ex., 2 km NW Delger, 46°23'49.0"N, 97°19'02.1"E, small lake with sandy bottom, 15.VIII.2016, A.S. Sazhnev leg. (IBIW).

Zavkhan Province. Dörvöljin District: 1 ex., eastern part of Nogoön-nuur Lake, ca. 47°56'32"N, 93°15'21"E, 10.VIII.2010, A. Prokin leg. (IBIW).

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

Literature records

Arkhangai, Bayankhongor, Bulgan, Dornod, Govi-Altai, Khovd, Khövsgöl, Övörkhantai, Ulaanbaatar/Baganuur, Uvs, Zavkhan (Gentili 1973, 1995; Bellstedt 1985; Short and Kanda 2006).

New province records, material studied

Ömnögovi Province. Khanbogd District: 7 exs., Ikh-bulag spring, 43°11'28.6"N, 107°11'50.5"E, 19.VIII.2013, G. Chuluunbaatar leg. 16 exs., Tsagaan-tolgoi spring, 43°10'01.3"N, 107°09'12.7"E, 19.VIII.2013, G. Chuluunbaatar leg. 20 exs., Baishint spring, 43°01'31.9"N, 107°12'06.7"E, 19.VIII.2013, G. Chuluunbaatar leg. 16 exs., Buuriin-khuhiin-zadgai spring, 43°02'11.3"N, 107°12'24.2"E, 20.VIII.2013, G. Chuluunbaatar leg.

Selenge Province. Sükhbaatar District: 2 exs., south of Sükhbaatar, pools in Orkhongol River floodplain, ca. 50°10'41"N, 106°11'42"E, 17.VII.2009, A. Prokin leg. (IBIW). Yeröö District: 1 ex., upper course of Yeröö-gol River, 49°05'18.6"N, 107°17'37.1"E, 16.VII.2014, G. Chuluunbaatar leg.

***Laccobius syriacus* Guillebeau, 1896**

First Mongolian record, material studied

Bayankhongor Province. Bogd District: 10 exs., Tuin-gol River mouth, pools in floodplain, 45°09'21.5"N, 100°46'53.1"E, 04.VII.2009, A. Prokin leg. (IBIW).

***Paracymus aeneus* (Germar, 1824)**

Literature records

This species was recorded for Mongolia by Hansen (2004) and Fikáček et al. (2015) without detailed locality information.

First province record, material studied

Uvs Province. Davst District: 6 exs., vicinity of Uvs-nuur Lake, pools, 50°34'08.2"N, 92°28'49.9"E, 30.VII.2010, A. Prokin leg. (IBIW).

Paracymus chaldeus (Solsky, 1874)

First Mongolian record, material studied

Uvs Province. Davst District: 2 exs., vicinity of Uvs-nuur Lake, 50°34'08.2"N, 92°28'49.9"E, 30.VII.2010, A. Prokin leg. (IBIW).

Family Hydraenidae Mulsant, 1844

Ochthebius evanescens Sahlberg, 1875

Literature record

Bayankhongor (Janssens 1967).

New province records, material studied

Uvs Province. Davst District: 29 exs., vicinity of Uvs-nuur Lake, pools, 50°34'08.2"N, 92°28'49.9"E, 30.VII.2010, A. Prokin leg. (IBIW).

Zavkhan Province. Tüdevtei District: 10 exs., vicinity of Oygong-nuur Lake, pools, 49°08'08"N, 96°39'30"E, 23.VII.2010, A. Prokin leg. (IBIW).

Ochthebius jansseni Ferro, 1983

Literature record

Uvs (Jäch 1992).

New province records, material studied

Govi-Altai Province. Delger District: 1 ex., 2 km NW Delger, small lake with sandy bottom, 46°23'49.0"N, 97°19'02.1"E, 15.VIII.2016, A.S. Sazhnev leg. (IBIW).

Zavkhan Province. Dörvöljin District: 17 exs., eastern part of Nogoong-nuur Lake, ca. 47°56'32"N, 93°15'21"E, 10.VIII.2010, A. Prokin leg. (IBIW, NHMW).

Ochthebius joosti Jäch, 1992

First Mongolian record, material studied

Zavkhan Province. Santmargats District: 5 exs., Bayan-nuur Lake, middle reach of western brook, 500 m from mouth, 11.VIII.1994, collector unknown (IBIW).

Ochthebius kuwertii Reitter, 1897

Literature records

Arkhangai, Bayan-Ölgii, Khövsgöl, Ömnögovi, Ulaanbaatar/Baganuur, Uvs (Janssens 1967, 1971; Jäch 1992).

New province record, material studied

Övörkhangai Province. Ölziit District: 2 exs., Zygstiyn-gol River, 46°42'57.0"N, 103°14'17.9"E, 31.VIII.2010, A. Prokin leg. (NHMW).

Ochthebius marinus (Paykull, 1798)***Literature records***

Arkhangai, Bayankhongor, Khovd, Khövsgöl, Övörkhangai, Ulaanbaatar/Baganuur, Uvs (Janssens 1967, 1968, 1971; Bellstedt 1985; Jäch 1992).

New province records, material studied

Dornod Province. Matad District: 3 exs., 90 km SE Choibalsan, 2.VIII.1976, I. Kerzhner leg. (CSR).

Zavkhan Province. Santmargats District: 1 ex., Bayan-nuur Lake, middle reach of western brook, 500 m from mouth, 11.VIII.1994, collector unknown (IBIW).

Ochthebius perdurus Reitter, 1899***Literature records***

Bayan-Ölgii, Khovd, Khövsgöl (Janssens 1968, 1971; Jäch 1990).

New province records, material studied

Bayankhongor Province. Bogd District: 1 ex., Dalan-turuniy-bulag spring, 45°03'N, 100°33'E, 5.X.2000, A. Przhiboro leg. (CSR).

Övörkhangai Province. Baatsagaan District: 1 ex., Tsagaan-gol River, ca. 45°29'20.0"N, 99°48'00.8"E 10.IX.2000, A. Przhiboro leg. (CSR).

Ochthebius subaeneus Janssens, 1967***Literature records***

Bayankhongor (Janssens 1967; Jäch 1992).

New province record, material studied

Khovd Province. Dörögen District: 2 exs., Dörögen Reservoir near Chono-Chariakha-gol River, natural channel, 48°18'49.7"N, 92°47'46.2"E, 6.VIII.2010, A. Prokin leg. (IBIW).

Family Heteroceridae Macleay, 1825***Augyles intermedius (Kiesenwetter, 1843)******Literature record***

Khövsgöl, Övörkhangai, Töv (Charpentier 1979).

New province record, material studied

Dornod Province. Khalkh-gol District: 1 ex., 'Khalkh-gol, upper reaches of Ongiin-gol River, 12.VII.1926, A.N. Kirichenko leg.' (ZISP).

Augyles interspidulus (Charpentier, 1979)***Literature record***

Bayankhongor, Khovd, Khövsgöl, Ulaanbaatar, Ulaanbaatar/Baganuur, Uvs (Charpentier 1979).

New province records, material studied

Dornogovi Province. Khatanbulag District: 1 ex., 41 km NNW Khatanbulag, Gashuny-Els, 900 m a.s.l., at light, 43°30'N, 108°58'E, 7.VIII.2002, A. Przhiboro leg. (ZISP).

Govi-Altai Province. Taishir District: 1 ex., margin of Taishir Reservoir, 46°42'12.8"N, 96°39'44.4"E, 17.VIII.2016, A.S. Sazhnev leg. (IBIW). 2 exs., Zavkhan-gol River upstream of Taishir Reservoir, 46°39'22.7"N, 96°52'15.4"E, 22.VIII.2017, A.S. Sazhnev leg. (IBIW).

Khentii Province. Bayankhutag or Kherlen District: 3 exs., 2 km S Öndörkhaan, Kherlen-gol River, 47°18'N, 110°39'E, 1030 m a.s.l., 18–19.VIII.2002, A. Przhiboro leg. (IBIW, ZISP).

Selenge Province. Shaamar or Züünbüren District: 5 exs., ca. 15 km NW Shaamar, between Orkhon-gol River and Selenge-gol River, at light, 50°08'N, 106°06'E, 24.VII.2002, A. Przhiboro leg. (IBIW, ZISP). Züünbüren District: 14 exs., 31 km SW Sükhbaatar, anabranche of Selenge-gol River, 650 m a.s.l., 50°06'N, 105°49'E, 27.VII.2002, A. Przhiboro leg. (IBIW, ZISP). Yeröö District: 24 exs., 60 km NE Darkhan, Yeröö-gol River, vicinity of Yeröö, 650 m a.s.l., 49°48'N, 106°35'E, 28–29.VII.2002, A. Przhiboro leg. (IBIW, ZISP).

Augyles obliterated (Kiesenwetter, 1843)***First Mongolian record, material studied***

Zavkhan Province. Dörvöljin District: 20 exs., margin of Zavkhan-gol River, 47°37'28.4"N, 95°00'36.8"E, 28.VIII.2017, A.S. Sazhnev leg. (IBIW).

Heterocerus fenestratus (Thunberg, 1784)***Literature record***

Bulgan, Dornod, Khentii, Khövsgöl (Charpentier 1979).

New province records, material studied

Bayankhongor Province. Bogd District: 1 ex., Tuin-gol River, estuary, pools in riverbed, 29.VIII.2015, A. Prokin leg. (IBIW). 6 exs., same locality data except for: bank of Tuin-gol River, 16.VIII.2017, A.S. Sazhnev leg. (IBIW).

Dornogovi Province. Örgön District: 9 exs., 700 m a.s.l., dry steppe, at light, 45°21'N, 111°18'E, 12.VIII.2002, A. Przhiboro leg. (IBIW, ZISP).

Govi-Altai Province. Taishir District: 7 exs., margin of Taishir Reservoir, 46°42'12.8"N, 96°39'44.4"E, 17.VIII.2016 and 22.VIII.2017, A.S. Sazhnev leg. (IBIW). 9 exs., Zavkhan-gol River upstream of Taishir Reservoir, 46°39'22.7"N, 96°52'15.4"E, 22.VIII.2017, A.S. Sazhnev leg. (IBIW).

Selenge Province. Shaamar or Züünbüren District: 17 exs., ca. 15 km NW Shaamar, between Orkhon-gol River and Selenge-gol River, at light, 50°08'N, 106°06'E, 24.VII.2002, A. Przhiboro leg. (IBIW, ZISP). Züünbüren District: 2 exs., 31 km SW Sükhbaatar, anabranch of Selenge-gol River, 650 m a.s.l., 50°06'N, 105°49'E, 27–29.VII.2002, A. Przhiboro leg. (ZISP). 2 exs., same locality data except for: at light, ca. 50 m from the water, 28–29.VII.2002 (IBIW, ZISP).

Sükhbaatar Province. Bayandelger District: 11 exs., 10 km ESE Bayandelger, Bayangiyn-bulag spring, 980 m a.s.l., at light, 45°43'N, 112°29'E, 13.VIII.2002, A. Przhiboro leg. (IBIW, ZISP). Dariganga District: 7 exs., 2 km W Dariganga, near a stream, ca. 200 m from margin of Dityn-nuur Lake, 1230 m a.s.l., at light, 45°18'N, 113°49'E, 14–15.VIII.2002, A. Przhiboro leg. (IBIW, ZISP).

Zavkhan Province. Dörvöljin District: 15 exs., margin of Zavkhan-gol River, 47°37'28.4"N, 95°00'36.8"E, 28.VIII.2017, A.S. Sazhnev leg. (IBIW).

***Heterocerus flexuosus* Stephens, 1828**

Literature record

Dornod, Khovd (Charpentier 1979).

New province record, material studied

Övörkhangai Province. Baruun Bayan-Ulaan District: 1 ex., margin of Tatsyn-Tsagaan-nuur Lake, 02–04.VIII.1969, I. Kerzhner leg. (ZISP).

***Heterocerus kaszabi* Charpentier, 1979**

Literature record

Bayankhongor, Dornod, Dornogovi (Charpentier 1979).

New province record, material studied

Sükhbaatar Province. Bayandelger District: 4 exs., 10 km ESE Bayandelger, Bayangiyn-bulag spring, 980 m a.s.l., at light, 45°43'N, 112°29'E, 13.VIII.2002, A. Przhiboro leg. (IBIW, ZISP). Dariganga District: 1 ex., 2 km W Dariganga, near a stream, ca. 200 m from shore of Dityn-nuur Lake, 1230 m a.s.l., at light, 45°18'N, 113°49'E, 14–15.VIII.2002, A. Przhiboro leg. (ZISP).

***Heterocerus marginatus* (Fabricius, 1787)**

First Mongolian records, material studied

Dornod Province. Khalkhgol District: 2 exs., Khalkhin-gol River, 33 km SE Khalkhgol, 47°25'28.1"N, 119°18'43.8"E, 19.VII.1971, G. Medvedev leg. (ZISP). 1 ex., Buir-nuur Lake, at light, 17.VII.1997, I. Kerzhner leg. (ZISP).

***Heterocerus parallelus* Gebler, 1830**

Literature record

Bayan-Ölgii, Bulgan, Dornod, Khentii, Khovd, Sükhbaatar, Töv (Charpentier 1979).

New province records, material studied

Arkhangai Province. Tüvshrüülekh District: 1 ex., Tüvshrüülekh, at light, 16.VII.1970, collector unknown (ZISP).

Bayankhongor Province. Bogd District: 5 exs., northern margin of Orog-nuur Lake, at light, 15–16.VIII.1967, P. Zaitzev leg. (ZISP).

Dornogovi Province. Delgerekh District: 4 exs., 700 m a.s.l., dry steppe, at light, 45°21'N, 111°18'E, 12.VIII.2002, A. Przhiboro leg. (IBIW, ZISP).

Ömnögovi Province. Bulgan District: 1 ex., Bain-Dzak, 30 km SSE Bulgan, at light, 26–28.VII.1967, I. Kerzhner leg. (ZISP).

Uvs Province. District unknown: 2 exs., Uvs-nuur Lake, 10.VII.1914, N.G. Tomashinskiy leg. (IBIW). Öndörkhangai District: 25 exs., 33 km SSW Öndörkhangai, 4 km E Sail-Ulaan Mountain, 1415 m a.s.l., at light, 20–21.VII.2015, A. Prosvirov leg. (IBIW, MSU).

Table 1. Checklist of all water beetle and shore beetle species known from Mongolia, including distribution data.

Bold font: species, which are recorded from Mongolia for the first time, and species for which first or new province records are provided. Asterisk: species, which are recorded from Mongolia for the first time.

Species	Mongolian records
Gyrinidae	
1. <i>Gyrinus aeratus</i> Stephens, 1835	'Mongolia' (Zaitzev 1953; Ochs 1967); Bayan-Ölgii, Khövsgöl, Ulaanbaatar, Uvs (Guéorguiev 1969; Enkhnasan 2011)
2. <i>Gyrinus distinctus</i> Aubé, 1838	New province records, see above
3. <i>Gyrinus marinus</i> Gyllenhal, 1808	'Mongolia' (Ochs 1967); Bayan-Ölgii (Enkhnasan 2011)
4. <i>Gyrinus natator</i> (Linnaeus, 1758)	Arkhangai, Uvs (Enkhnasan 2011)
5. <i>Gyrinus paykulli</i> Ochs, 1927	New province record, see above
6. <i>Gyrinus sugunurensis</i> Nilsson, 2001	Töv (Nilsson 2001)
7. <i>Orectochilus villosus dauricus</i> Motschulsky, 1860	Selenge (Enkhnasan 2011), as <i>O. villosus</i> (Müller, 1776)
Haliplidae	
1. <i>Haliplus basinotatus</i> Zimmermann, 1924	Selenge (Short et al. 2010)
2. <i>Haliplus confinis</i> Stephens, 1828	Khovd (Prokin 2018)
3. <i>Haliplus flavicollis</i> Sturm, 1834	Khövsgöl (Short et al. 2010)
4. <i>Haliplus fulvus</i> (Fabricius, 1801)	Töv (Short et al. 2010)
5. <i>Haliplus furcatus</i> Seidlitz, 1887	Selenge (Short et al. 2010)
6. <i>Haliplus lineolatus</i> Mannerheim, 1844	'Khangai' (Zimmermann 1919; Guignot 1947; Guéorguiev 1965); 'Muy-Gol' (Short et al. 2010)
7. <i>Haliplus ruficollis</i> (De Geer, 1774)	First province records, see above
8. <i>Haliplus sibiricus</i> Motschulsky, 1860	New province record, see above
9. <i>Haliplus simplex</i> Clark, 1863	Selenge (Short et al. 2010)
10. <i>Haliplus steppensis</i> Guignot, 1954	'Khangai' (Zimmermann 1919, 1927), as <i>Haliplus apicalis</i> Thomson, 1868; 'South Khangai' (Palatov and Maryinskiy 2017); Arkhangai, Bayankhongor, Govi-Altai, Khentii, Khövsgöl, Övörkhangai, Ulaanbaatar, Ulaanbaatar/Baganuur, Zavkhan (Guéorguiev 1968a, b, 1972; Brancucci 1982; Bellstedt 1985; Short et al. 2010)
Noteridae	
1. <i>Noterus clavicornis</i> (De Geer, 1774)	New province record, see above
Dytiscidae	
1. <i>Agabus adpressus</i> Aubé, 1837	New province record, see above
2. <i>Agabus aequalis</i> Sharp, 1882	Arkhangai, Övörkhangai (Shaverdo et al. 2008)
3. *<i>Agabus amoenus</i> Solsky, 1874	First Mongolian records, see above
4. <i>Agabus angusi</i> Nilsson, 1994	Khentii (Nilsson 1994)
5. <i>Agabus arcticus alpinus</i> (Motschulsky, 1860)	New province records, see above
6. <i>Agabus basalis</i> (Gebler, 1829)	Mongolia (Zaitzev 1953; Nilsson 2003)
7. <i>Agabus biguttulus</i> (Thomson, 1867)	Khentii (Guéorguiev 1968a)
8. *<i>Agabus blatta</i> Jakowlew, 1897	First Mongolian records, see above
9. <i>Agabus brandti</i> Harold, 1880	'Mongolia' (Zimmermann 1934; Zaitzev 1953; Nilsson, 2003)
10. <i>Agabus clavicornis</i> Sharp, 1882	New province records, see above
11. <i>Agabus confinis</i> (Gyllenhal, 1808)	'Mongolia' (Nilsson, 2003)
12. <i>Agabus congener</i> (Thunberg, 1794)	Selenge (Shaverdo et al. 2008)
13. <i>Agabus costulatus</i> Motschulsky, 1859	New province records, see above
14. <i>Agabus coxalis</i> Sharp, 1882	New province records, see above
15. <i>Agabus dichrous</i> Sharp, 1878	New province records, see above
16. <i>Agabus discolor</i> (Harris, 1828)	Khentii (Guéorguiev 1968a)
17. <i>Agabus fulvaster</i> Zaitzev, 1906	'Mongolia' (Nilsson 2003)
18. <i>Agabus infuscatus</i> Aubé, 1838	New province record, see above
19. *<i>Agabus japonicus continentalis</i> Guéorguiev, 1970	First Mongolian records, see above
20. <i>Agabus kaszabi</i> Guéorguiev, 1972	Khentii (Guéorguiev 1972)

(continued)

Table 1. Continued.

	Species	Mongolian records
21.	<i>Agabus kholini</i> Nilsson, 1994	Töv (Shaverdo et al. 2008)
22.	<i>Agabus laferi</i> Nilsson, 1994	New province record, see above
23.	<i>Agabus lapponicus</i> (Thomson, 1867)	Arkhangai, Bulgan, Khövsgöl, Selenge (Shaverdo et al. 2008)
24.	<i>Agabus lineatus</i> Gebler, 1848	Zavkhan (Shaverdo et al. 2008)
25.	* <i>Agabus moestus</i> (Curtis, 1835)	First Mongolian record, see above
26.	<i>Agabus pallens</i> Poppius, 1905	New province records, see above
27.	<i>Agabus svenhedini</i> Falkenström, 1932	Bayan-Ölgii, Uvs (Guéorguiev 1972)
28.	* <i>Agabus thomsoni</i> (Sahlberg, 1871)	First Mongolian records, see above
29.	<i>Ilybius angustior</i> Gyllenhal, 1808	Arkhangai, Khövsgöl, Selenge, Töv, Zavkhan (Guéorguiev 1972; Shaverdo et al. 2008)
30.	<i>Ilybius balkei</i> (Fery and Nilsson, 1993)	Selenge (Shaverdo et al. 2008)
31.	<i>Ilybius chishimanus</i> Kono, 1944	Bulgan, Khövsgöl, Selenge, Töv (Shaverdo et al. 2008)
32.	<i>Ilybius cinctus</i> Sharp, 1878	'Mongolia' (Feng 1932, 1933; Wu 1937; Brinck 1946; Zaitzev 1953); Dornod, Dornogovi, Khentii, Sükhbaatar (Guéorguiev 1968a, 1969)
33.	<i>Ilybius crassus</i> Thomson, 1856	Dornod (Guéorguiev 1968a)
34.	<i>Ilybius erichsoni</i> Gemminger and Harold, 1868	Bulgan, Selenge (Shaverdo et al. 2008)
35.	<i>Ilybius lateralis</i> (Gebler, 1832)	New province record, see above
36.	<i>Ilybius obtusus</i> Sharp, 1882	New province records, see above
37.	<i>Ilybius opacus</i> Aubé, 1837	Selenge (Shaverdo et al. 2008)
38.	<i>Ilybius poppiusi</i> (Zaitzev, 1907)	Arkhangai, Bulgan, Dornod, Govisumber, Khentii, Khövsgöl, Övörkhantai, Ulaanbaatar, Ulaanbaatar/Baganuur, Zavkhan (Zaitzev 1910; Guéorguiev 1968a, 1969; Bellstedt 1985; Shaverdo et al. 2008)
39.	<i>Ilybius subaeneus</i> Erichson, 1837	New province record, see above
40.	<i>Colymbetes dahuricus</i> Aubé, 1837	New province records, see above
41.	* <i>Colymbetes dolabratus</i> (Paykull, 1798)	First Mongolian records, see above
42.	<i>Colymbetes pseudostratus</i> Nilsson, 2002	Selenge (Shaverdo et al. 2008)
43.	<i>Rhantus frontalis</i> (Marsham, 1802)	New province records, see above
44.	<i>Rhantus notaticollis</i> (Aubé, 1837)	'Mongolia' (Motschulsky 1853; Zaitzev 1953); Arkhangai, Bulgan, Khentii, Khövsgöl, Övörkhantai, Selenge, Töv, Ulaanbaatar, Ulaanbaatar/Baganuur, Zavkhan (Guéorguiev 1965, 1968a, 1969, 1972; Brancucci 1982; Bellstedt 1985; Shaverdo et al. 2008)
45.	* <i>Rhantus rufus</i> Zimmermann, 1922	First Mongolian record, see above
46.	<i>Rhantus suturalis</i> (Macleay, 1825)	'Mongolia' (Jakowlew 1896; Wu 1937; Zaitzev 1953; Nilsson 2003)
47.	<i>Rhantus vermiculatus</i> Motschulsky, 1860	Arkhangai, Bulgan, Khövsgöl, Övörkhantai, Töv, Zavkhan (Shaverdo et al. 2008)
48.	<i>Acilius canaliculatus</i> (Nicolai, 1822)	New province records, see above
49.	* <i>Acilius sulcatus</i> (Linnaeus, 1758)	First Mongolian records, see above
50.	<i>Graphoderus austriacus</i> (Sturm, 1834)	New province records, see above
51.	<i>Graphoderus cinereus</i> (Linnaeus, 1758)	New province records, see above
52.	<i>Graphoderus elatus</i> Sharp, 1882	Khentii (Holmgren, Angus, Jia, Chen, and Bergsten 2016); Arkhangai, Khovd, Khövsgöl, Selenge, Ulaanbaatar, as <i>Graphoderus zonatus zonatus</i> (Hoppe, 1795) resp. <i>G. z. verrucifer</i> (Sahlberg, 1824) (Guéorguiev 1965; Bellstedt 1985; Shaverdo et al. 2008; Holmgren et al. 2016)
53.	<i>Cybister tripunctatus lateralis</i> (Fabricius, 1798)	'Mongolia' (Nilsson 2003; Zaitzev 1953, as <i>Cybister t. orientalis</i> Gschwendtner, 1931)
54.	* <i>Dytiscus circumcinctus</i> Ahrens, 1811	First Mongolian records, see above
55.	<i>Dytiscus dauricus</i> Gebler, 1832	New province records, see above
56.	<i>Dytiscus latro</i> Sharp, 1882	Arkhangai, Övörkhantai (Shaverdo et al. 2008)
57.	* <i>Hydaticus aruspex</i> Clark, 1864	First Mongolian records, see above
58.	* <i>Hydaticus continentalis</i> Balfour-Browne, 1944	First Mongolian records, see above
59.	* <i>Bidessus nasutus</i> Sharp, 1887	First Mongolian records, see above

(continued)

Table 1. Continued.

	Species	Mongolian records
60.	<i>Bidessus unistriatus</i> (Goetze, 1777)	Bayankhongor (Guéorguiev 1965)
61.	<i>Hydroglyphus geminus</i> (Fabricius, 1792)	New province record, see above
62.	<i>Hydroglyphus hamulatus</i> (Gyllenhal, 1813)	First province record, see above
63.	* <i>Hydroglyphus trassaerti</i> (Feng, 1936)	First Mongolian records, see above
64.	<i>Hydroporus 'acutangulus</i> Thomson, 1856 <i>species complex</i> '	Arkhangai, Khentii, Khövsgöl, Övörkhangai, Ulaanbaatar, Ulaanbaatar/Baganuur, Zavkhan (Guéorguiev 1965, 1968a, 1972; Shaverdo et al. 2008)
65.	<i>Hydroporus angusi</i> Nilsson, 1990	Selenge (Shaverdo et al. 2008)
66.	<i>Hydroporus crinitisternus</i> Shaverdo and Fery, 2001	Khovd (Shaverdo and Fery 2001)
67.	<i>Hydroporus elongatulus</i> Sturm, 1835	Töv (Shaverdo et al. 2008)
68.	<i>Hydroporus fuscipennis</i> Schaum, 1868	Dornod, Selenge (Shaverdo 2004; Shaverdo et al. 2008)
69.	<i>Hydroporus geniculatus</i> Thomson, 1865	Arkhangai, Zavkhan (Shaverdo et al. 2008)
70.	<i>Hydroporus kabakovi</i> Fery and Petrov, 2006	Selenge, Zavkhan (Fery and Petrov 2006; Shaverdo et al. 2008)
71.	<i>Hydroporus morio</i> (Aubé, 1838)	Arkhangai, Khövsgöl, Töv, Zavkhan (Shaverdo et al. 2008)
72.	<i>Hydroporus nigellus</i> Mannerheim, 1853	New province records, see above
73.	<i>Hydroporus notabilis</i> LeConte, 1850	Arkhangai, Zavkhan (Shaverdo et al. 2008)
74.	<i>Hydroporus palustris</i> (Linnaeus, 1760)	Selenge (Shaverdo et al. 2008)
75.	<i>Hydroporus sibiricus</i> (Sahlberg, 1880)	Töv (Shaverdo et al. 2008)
76.	<i>Hydroporus submuticus</i> Thomson, 1874	Arkhangai, Bulgan, Selenge, Töv, Zavkhan (Shaverdo et al. 2008)
77.	<i>Hydroporus uenoi</i> Nakane, 1963	New province record, see above
78.	<i>Boreonectes aff. emmerichi</i> (Falkenström, 1936)	First province record, see above
79.	<i>Nebrioporus airumulus</i> (Kolenati, 1845)	New province records, see above
80.	* <i>Nebrioporus assimilis</i> (Paykull, 1798)	First Mongolian record, see above
81.	<i>Nebrioporus depressus</i> (Fabricius, 1775)	New province record, see above
82.	<i>Nebrioporus hostilis</i> (Sharp, 1884)	New province records, see above
83.	<i>Nectoporus sanmarkii</i> (Sahlberg, 1826)	New province records, see above
84.	<i>Oreodytes mongolicus</i> Brinck, 1943	'South Khangai' (Palatov and Maryinskiy 2017); Arkhangai, Bayankhongor, Khentii, Khovd, Khövsgöl, Övörkhangai, Töv, Ulaanbaatar, Zavkhan (Zaitzev 1953; Guéorguiev 1965, 1968a, b, 1972; Bellstedt 1985; Shaverdo et al. 2008)
85.	<i>Oreodytes septentrionalis</i> (Gyllenhal, 1826)	New province record, see above
86.	<i>Oreodytes shorti</i> Shaverdo and Fery, 2006	Arkhangai (Shaverdo and Fery 2006; Shaverdo et al. 2008)
87.	<i>Zaitzevhydrus formaster</i> (Zaitzev, 1908)	New province records, see above
88.	<i>Hygrotus caspius</i> (Wehncke, 1875)	'North Mongolia' (Zaitzev 1908); Arkhangai, Bayankhongor, Bulgan, Dornod, Khentii, Ömnögov, Övörkhangai, Selenge, Töv, Ulaanbaatar/Baganuur, Uvs (Guéorguiev 1965, 1968a, 1972; Shaverdo et al. 2008)
89.	<i>Hygrotus chinensis</i> (Sharp, 1882)	'South Mongolia' (Wu 1937); Arkhangai, Dornogovi, Khentii, Sükhbaatar, Ulaanbaatar/Baganuur (Guéorguiev 1965, 1968a, 1969, 1972)
90.	* <i>Hygrotus confluens</i> (Fabricius, 1787)	First Mongolian record, see above
91.	<i>Hygrotus enneagrammus</i> (Ahrens, 1833)	New province records, see above
92.	<i>Hygrotus flaviventris</i> (Motschulsky, 1860)	New province records, see above
93.	<i>Hygrotus impressopunctatus</i> (Schaller, 1783)	New province records, see above
94.	<i>Hygrotus inaequalis</i> (Fabricius, 1777)	New province records, see above
95.	<i>Hygrotus marklini</i> (Gyllenhal, 1813)	New province records, see above
96.	<i>Hygrotus nigrolineatus</i> (Steven, 1808)	New province record, see above
97.	<i>Hygrotus parallelogrammus</i> (Ahrens, 1812)	New province records, see above
98.	<i>Hygrotus pectoralis</i> (Motschulsky, 1860)	New province record, see above
99.	<i>Hygrotus quinquelineatus</i> (Zetterstedt, 1828)	New province record, see above
100.	<i>Hygrotus unguicularis</i> (Crotch, 1834)	New province record, see above

(continued)

Table 1. Continued.

	Species	Mongolian records
101.	<i>Hygrotes urgensis</i> (Jakowlew, 1899)	'Changai' [Khangai Mts.], Arkhangai, Töv (Fery 1992; Shaverdo et al. 2008)
102.	* <i>Laccornis oblongus</i> (Stephens, 1835)	First Mongolian record, see above
103.	<i>Laccophilus biguttatus</i> Kirby, 1837	New province record, see above
104.	<i>Laccophilus minutus</i> (Linnaeus, 1758)	Mongolia (Nilsson 2003)
Helophoridae		
1.	<i>Helophorus aspericollis</i> Angus, 1973	Arkhangai, Khentii, Töv, Ulaanbaatar, Ulaanbaatar/Baganuur (Angus 1970b; Bellstedt 1985)
2.	* <i>Helophorus bergrothi</i> Sahlberg, 1880	First Mongolian record, see above
3.	<i>Helophorus carsoni</i> Angus, 1970	New province records, see above
4.	<i>Helophorus crinitus</i> Ganglbauer, 1901	Dornod (Ganglbauer 1901; Angus 1970a)
5.	<i>Helophorus hammondi</i> Angus, 1970	New province records, see above
6.	<i>Helophorus kaszabianus</i> Angus, 1970	New province record, see above
7.	<i>Helophorus kerimi</i> Ganglbauer, 1901	Arkhangai, Bayankhongor, Bayan-Ölgii, Bulgan, Khentii, Khovd, Övörkhangaï, Töv, Ulaanbaatar, Ulaanbaatar/Baganuur, Uvs (Angus 1970b; Bellstedt 1985)
8.	<i>Helophorus khnzoriani</i> Angus, 1970	Bayan-Ölgii (Angus 1970b)
9.	* <i>Helophorus kryzanovskii</i> Angus, 1984	First Mongolian records, see above
10.	<i>Helophorus limbatus</i> Motschulsky, 1860	Arkhangai, Dornod, Khentii, Khövsgöl, Övörkhangaï, Ulaanbaatar/Baganuur, Uvs (Angus 1970b; Bellstedt 1985)
11.	<i>Helophorus mongoliensis</i> Angus, 1970	Bayankhongor, Bayan-Ölgii, Khövsgöl, Uvs (Angus 1970b; Bellstedt 1985)
12.	<i>Helophorus nigricans</i> Poppius, 1907	Khentii (Angus 1970b)
13.	<i>Helophorus obscurellus</i> Poppius, 1907	Bayankhongor, Töv (Angus 1970a, b)
14.	<i>Helophorus parajacutus</i> Angus, 1970	New province records, see above
15.	<i>Helophorus praenanus</i> Łomnicki, 1894	New province records, see above
16.	<i>Helophorus sibiricus</i> (Motschulsky, 1860)	'Mongolia' (Jacobson 1913); Arkhangai, Bayan-Ölgii, Dornod, Khentii, Övörkhangaï, Ulaanbaatar, Ulaanbaatar/Baganuur (Angus 1970a)
17.	<i>Helophorus similis</i> Kuwert, 1887	Bulgan, Töv (Angus 1970b)
18.	<i>Helophorus shatrovskiyi</i> Angus, 1985	Bayankhongor, Ulaanbaatar (Angus 1985)
19.	* <i>Helophorus timidus</i> Motschulsky, 1860	First Mongolian records, see above
Hydrophilidae		
1.	<i>Berosus fischeri</i> Schödl, 1993	New province record, see above
2.	<i>Berosus fulvus</i> Kuwert, 1888	New province records, see above
3.	<i>Berosus lewisius</i> Sharp, 1873	Govi-Altai (Schödl 1991)
4.	<i>Berosus punctipennis</i> Harold, 1878	New province records, see above
5.	<i>Berosus spinosus</i> (Steven, 1808)	'Khangai Mount.', Arkhangai, Bulgan, Dornod, Khentii, Khovd, Selenge, Ulaanbaatar, Uvs (Bellstedt 1985; Schödl 1991)
6.	<i>Cercyon bifenestratus</i> Küster, 1851	New province records, see above
7.	<i>Cercyon marinus</i> Thomson, 1853	New province records, see above
8.	<i>Cercyon ovillus</i> Motschulsky, 1860	Arkhangai, Ulaanbaatar (Bellstedt 1985)
9.	<i>Cercyon quisquilius</i> (Linnaeus, 1761)	New province record, see above
10.	<i>Cercyon terminatus</i> (Marshall, 1802)	Arkhangai, Govi-Altai (Bellstedt 1985)
11.	<i>Cercyon tristis</i> (Illiger, 1801)	'Shuryn near Uliastay' (Ryndevich 2003); 'Mongolia' (Hansen 2004; Fikáček et al. 2015)
12.	<i>Cercyon unipunctatus</i> (Linnaeus, 1758)	Khentii (Korsun et al. 2012)
13.	* <i>Crenitis apicalis</i> (Reitter, 1896)	First Mongolian records, see above
14.	<i>Enochrus bicolor</i> (Fabricius, 1792)	Arkhangai, Bulgan, Govi-Altai, Dornod, Khovd, Övörkhangaï, Töv (Bellstedt 1985; Schödl 1998; Short and Kanda 2006)
15.	* <i>Enochrus coarctatus</i> (Gredler, 1863)	First Mongolian records, see above
16.	* <i>Enochrus melanocephalus</i> (Olivier, 1792)	First Mongolian record, see above
17.	<i>Enochrus quadripunctatus</i> (Herbst, 1797)	New province records, see above
18.	<i>Enochrus segmentinotatus</i> (Kuwert, 1888)	New province records, see above

(continued)

Table 1. Continued.

	Species	Mongolian records
19.	<i>*Enochrus testaceus</i> (Fabricius, 1801)	New Mongolian record, see above
20.	<i>Hydrobius fuscipes</i> (Leach, 1815) species complex'	'Mongolia' (Jacobson 1913); 'South Khangai' (Palatov and Maryinskiy 2017); Arkhangai, Bayan-Ölgii, Khovd, Övörkhangai, Ulaanbaatar, Zavkhan (Bellstedt, 1985; Short and Kanda 2006)
21.	<i>Hydrochara affinis</i> (Sharp, 1873)	New province records, see above
22.	<i>Hydrophilus dauricus</i> Mannerheim, 1852	First province records, see above
23.	<i>Laccobius cinereus</i> Motschulsky, 1860	New province records, see above
24.	<i>Laccobius colon</i> (Stephens, 1829)	Bayankhongor (Gentili 1973), as <i>Laccobius mongolicus</i> Gentili, 1973
25.	<i>Laccobius decorus</i> (Gyllenhal, 1827)	New province records, see above
26.	<i>Laccobius minutus</i> (Linnaeus, 1758)	New province records, see above
27.	<i>*Laccobius syriacus</i> Guillebeau, 1896	First Mongolian record, see above
28.	<i>Paracymus aeneus</i> (Germar, 1824)	First province record, see above
29.	<i>*Paracymus chalceolus</i> (Solsky, 1874)	First Mongolian record, see above
30.	<i>Pachysternum haemorrhoum</i> Motschulsky, 1866	Arkhangai (Bellstedt 1985; Fikáček et al. 2012)
31.	<i>Sphaeridium bipustulatum</i> Fabricius, 1781	'Mongolia' (Hansen 2004; Fikáček et al. 2015)
32.	<i>Sphaeridium lunatum</i> Fabricius, 1792	Arkhangai (Bellstedt 1985)
33.	<i>Sphaeridium substriatum</i> Faldermann, 1838	'Mongolia' (Hansen 2004; Fikáček et al. 2015)
Hydraenidae		
1.	<i>Hydraena riparia</i> Kugelann, 1794	'Mongolia' (Jäch and Skale 2015)
2.	<i>Limnebius crinifer</i> Rey, 1885	Khovd (Bellstedt 1985; Jäch 1993)
3.	<i>Limnebius glabriventris</i> Shatrovskiy, 1989	'Mongolia' (Jäch and Skale 2015)
4.	<i>Ochthebius caucasicus</i> Kuwert, 1887	Bayankhongor (Jäch 1989)
5.	<i>Ochthebius costatellus</i> Reitter, 1897	'Khangai Mountains', Ulaanbaatar/Baganuur (Jäch 1992)
6.	<i>Ochthebius evanescens</i> Sahlberg, 1875	New province records, see above
7.	<i>Ochthebius jansseni</i> Ferro, 1983	New province records, see above
8.	<i>*Ochthebius joosti</i> Jäch, 1992	First Mongolian record, see above
9.	<i>Ochthebius kuwertii</i> Reitter, 1897	New province record, see above
10.	<i>Ochthebius lenensis</i> Poppius, 1907	'Mongolia' (Jäch and Skale 2015)
11.	<i>Ochthebius marinus</i> (Paykull, 1798)	New province records, see above
12.	<i>Ochthebius mongolensis</i> Janssens, 1967	Khentii, Khovd (Bellstedt 1985; Jäch 1992)
13.	<i>Ochthebius mongolicus</i> Janssens, 1967	Bayankhongor (Janssens 1967; Jäch 1989)
14.	<i>Ochthebius perdurus</i> Reitter, 1899	New province records, see above
15.	<i>Ochthebius satoi</i> Nakane, 1965	Khovd (Jäch 1991, 1998)
16.	<i>Ochthebius subaeneus</i> Janssens, 1967	New province record, see above
Heteroceridae		
1.	<i>Augyles intermedius</i> (Kiesenwetter, 1843)	New province record, see above
2.	<i>Augyles interspidulus</i> (Charpentier, 1979)	New province records, see above
3.	<i>Augyles marmota</i> (Kiesenwetter, 1850)	Bulgan, Khovd (Charpentier 1979)
4.	<i>*Augyles obliterated</i> (Kiesenwetter, 1843)	First Mongolian record, see above
5.	<i>Heterocerus fenestratus</i> (Thunberg, 1784)	New province records, see above
6.	<i>Heterocerus flexuosus</i> Stephens, 1828	New province record, see above
7.	<i>Heterocerus kaszabi</i> Charpentier, 1979	New province record, see above
8.	<i>*Heterocerus marginatus</i> (Fabricius, 1787)	First Mongolian records, see above
9.	<i>Heterocerus obsoletus</i> Curtis, 1828	Khovd, Töv (Charpentier 1979)
10.	<i>Heterocerus parallelus</i> Gebler, 1830	New province records, see above

Discussion

The following taxa are included in Table 1 although their taxonomy is not yet clarified satisfactorily. They are in need of revision, preferably by using cytogenetics and molecular methods: *Agabus japonicus continentalis*, *Boreonectes* aff. *emmerichi*, and *Hydroporus acutangulus* (Dytiscidae), as well as *Hydrobius fuscipes* and *Laccobius colon* (Hydrophilidae).

The following species were wrongly recorded from Mongolia and are thus not included in Table 1:

1. Some Mongolian records by Brinck (1943) are based on material from Tuva, an independent state in 1943, but currently part of Russia (see also Guéorguiev 1972). They were at least partly listed for Mongolia in the Catalogue of Palearctic Coleoptera (Mazzoldi 2003; Nilsson 2003; Hájek 2017; Hájek and Fery 2017): *Gyrinus minutus* (Fabricius, 1798), *G. opacus* Sahlberg, 1819 (Gyrinidae), *Graptodytes bilineatus* (Sturm, 1835), *Ilybius fuliginosus* (Fabricius, 1792), *Platambus maculatus* (Linnaeus, 1758), and *Rhantus bistriatus* (Bergsträsser, 1777) (Dytiscidae).
The records of *Gyrinus aeratus*, *G. marinus* (Gyrinidae), and *Agabus confinis* (Dytiscidae) from Mongolia by Brinck (1943) refer also to Tuva but these species are actually known from Mongolia (see Table 1).
2. The Mongolian records by Falkenström (1932) actually refer to China (see Guéorguiev 1972).
3. *Aulonogyrus concinnus* (Klug, 1834) (Gyrinidae) was reported from Mongolia by Brinck (1955), referring to two localities: ‘Tschardschui’ and ‘Kuku-Nor’. However, ‘Tschardschui’ (or Chardzhou, now Türkmenabat) is a town in Turkmenistan, and ‘Kuku-Nor’ (or Koko Nor) is the Mongolian name of Qinghai Lake in China.
4. *Agabus longissimus* Régimbart, 1899, *Hygrotus semenowi* (Jakowlew, 1899), and *Platambus angulicollis* (Régimbart, 1899) (Dytiscidae) were recorded from Mongolia by Feng (1932, 1933) and Wu (1937). These records refer to China.
5. The West Palearctic *Graptodytes flavipes* (Olivier, 1795) (Dytiscidae) was recorded from Mongolia by Guignot (1947), but this record is obviously based on misidentification, and it was not confirmed by new findings.
6. *Laccobius albescens* ssp. *similis* Gentili, 1973 (Hydrophilidae) was originally described from Mongolia, however, Gentili and Chiesa (1976: 116) stated that this was due to mislabelling.
7. The Mongolian record of *Hydroglyphus licenti* (Dytiscidae) by Shaverdo et al. (2008) was based on misidentification. Reexamination of these specimens by H. Shaverdo revealed that they actually belong to *H. trassaerti*.

The following four species have not yet been identified unambiguously and are not included in Table 1:

1. *Hydroporus* sp. of the *striola*-group (Dytiscidae): 1 ex., Selenge Province, Sükhbaatar District, vicinity of Sükhbaatar, pools in the Orkhon-gol River floodplain, ca. 50°10'41"N, 106°11'42"E, 17.VII.2009, A. Prokin leg. (IBIW).
2. *Agabus* sp. of the *confinis*-group (Dytiscidae): 1 ex., Selenge Province, Saikhan District, west of Darkhan, small lake in Orkhon-gol River floodplain, 49°40'5"N, 105°52'46"E, 26.VII.2009, A. Prokin leg. (IBIW).
3. *Ilybius* sp. aff. *balkei* (Dytiscidae): 1 ex., Selenge Province, Yeröö District, vicinity of Khonin-nuga research station, Ulaanburgas limnocrone, 49°03'51.4"N, 107°16'11.7"E, 01.VII.2015, G. Chuluunbaatar leg. (IBIW).

4. *Ochthebius (Asiobates)* sp. of the *bicolon*-group (Hydraenidae): 2 ♀, Selenge Province, Khüder District, 12 km E Khüder, 49°43'52"N, 107°38'5"E, VII.2009 and VI.2014, Selenge River Project Team leg. (currently in NHMW). These specimens almost certainly represent an undescribed species.

Excluding the four unidentified species listed above, the Mongolian fauna currently includes 190 species of water beetles and 10 species of shore beetles: Gyrinidae (7), Haliplidae (10), Noteridae (1), Dytiscidae (104), Helophoridae (19), Hydrophilidae (33), Hydraenidae (16), Heteroceridae (10).

In addition to the eight families of water beetles and shore beetles studied here, one species of Georissidae (Hydrophiloidea) and three species of Scirtidae (Scirtoidea) are known from Mongolia (Sazhnev and Prokin 2017; Klausnitzer 1967).

No species of Dryopidae, Elmidae, Hydrochidae, Limnichidae, Psephenidae and Spercheidae, which are widely distributed in the Palearctic Region, have ever been recorded from Mongolia.

To date no water beetles and no shore beetles have been recorded from Orkhon Province (208 km²), by far the smallest of the 21 Mongolian aimags.

Of the 200 species of the eight families treated herein, six (3.00%) are known only from Mongolia (Gyrinidae: *Gyrinus sugunurensis*; Dytiscidae: *Agabus kaszabi*; Helophoridae: *Helophorus kaszabianus*, *H. parajacutus* (*H. shatrovskiy*, hitherto regarded as endemic was collected also in East Siberia, unpublished); Hydraenidae: *Ochthebius mongolensis*, *O. mongolicus*). Percentually, the Gyrinidae (14.28%) are the most endemic-rich family of the water beetle fauna of Mongolia followed by Hydraenidae (12.50%), Helophoridae (10.52%), and Dytiscidae (0.96%). No endemic Haliplidae, Noteridae, Georissidae, Hydrophilidae, Scirtidae or Heteroceridae (*Heterocerus kaszabi*, originally regarded as endemic, was recently recorded from East Siberia) are at present known from Mongolia.

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References

- Angus, R.B. (1970a), 'Revisional studies on East Palaearctic and some Nearctic species of *Helophorus* F. (Coleoptera: Hydrophilidae). Ergebnisse der zoologischen Forschungen von Dr. Z. Kaszab in der Mongolei (No. 226)', *Acta Zoologica Academiae Scientiarum Hungaricae*, XVI (3–4), 249–290.
- Angus, R.B. (1970b), 'A revision of the beetles of the genus *Helophorus* F. (Coleoptera: Hydrophilidae) subgenera *Orphelophorus* d'Orchymont, *Gephelophorus* Sharp and *Meghelophorus* Kuwert', *Acta Zoologica Fennica*, 129, 1–62.
- Angus, R.B. (1985), 'A new species of *Helophorus* (Coleoptera: Hydrophilidae) from Mongolia. Results of the Mongolian-German Biological Expeditions since 1962, No 148', *Mitteilungen aus dem Zoologischen Museum in Berlin*, 61, 163–164.
- Angus, R.B., Angus, E.M., Jia, F., Chen, Z.-n., and Zhang, Y. (2015), 'Further karyosystematic studies of the *Boreonectes griseostriatus* (De Geer) group of sibling species (Coleoptera, Dytiscidae)—characterisation of *B. emmerichi* (Falkenström, 1936) and additional European data', *Comparative Cytogenetics*, 9 (1), 133–144.
- Bellstedt, R. (1985), 'Wasserkäfer (Coleoptera: Hydradephaga & Palpicornia) aus der Mongolischen Volksrepublik, Ergebnisse der Mongolisch-Deutschen Biologischen Expeditionen seit 1962, Nr. 140', *Mitteilungen aus dem Zoologischen Museum in Berlin*, 61 (1), 137–141.
- Brancucci, M. (1982), 'Beitrag zur Kenntnis der Dytiscidae und der Haliplidae der Mongolei. Ergebnisse der mongolischen Gemeinschaftsreise von Ornithologen aus der DDR 1979. XVII', *Abhandlungen und Berichte des Museums der Natur Gotha*, 11, 69–70.
- Brinck, P. (1943), 'Insecta, ex Sibiria meridionali et Mongolia, in itinere Orjan Olsen 1914 collecta. A. Coleoptera, a Fritz Jensen lecta. VIII. Haliplidae, Dytiscidae, Gyrinidae', *Norsk entomologisk Tidsskrift*, 6, 154–161.
- Brinck, P. (1946), 'Waterbeetles from Manchuria with some zoogeographical remarks', *Opuscula Entomologica*, 11, 146–156.
- Brinck, P. (1955), 'A revision of the Gyrinidae (Coleoptera) of the Ethiopian Region I', *Lunds universitets årsskrift*, N.F., Avd. 2, 51 (16), 1–140 + 1 unnumbered page.
- Charpentier, R. (1979), 'Heteroceridae (Coleoptera) from Mongolia with description of *Heterocerus kaszabi* n. sp. and *Heterocerus interspidulus* n. sp.', *Entomologica Scandinavica*, 10 (3), 229–237.
- Dutton, L.A., and Angus, R.B. (2007), 'A karyosystematic investigation of a group of sibling species related to *Stictotarsus griseostriatus* (De Geer) (Coleoptera: Dytiscidae)', *Comparative Cytogenetics*, 1 (1), 3–16.
- Enkhnasan, D. (2006), 'Species composition of predaceous diving beetle[s] of Arctic Ocean Basin in Mongolia', *Proceedings of the Institute of Biology*, 26, 74–77. [In Mongolian].
- Enkhnasan, D. (2008), 'Distribution and ecology of *Agabus adpressus* (Coleoptera, Dytiscidae) in Mongolia', *Proceedings of the Institute of Biology*, 27, 89–91. [In Mongolian].
- Enkhnasan, D. (2011), 'Species composition and distribution of whirligig beetles (Coleoptera: Gyrinidae Latreille, 1810) of Mongolia', *Proceedings of the Institute of Biology*, 28, 176–180. [In Mongolian].
- Falkenström, G. (1932), 'Vorläufige Mitteilung über die neuen Halipliden und Dytisciden, von Dr. D. Hummel in den Jahren 1927–30 während Dr. Sven Hedins China-Expedition eingesammelt', *Entomologisk Tidsskrift*, 53, 191–192.

- Feng, H.T. (1932), 'Aquatic insects of China. Article II. Catalogue of Chinese Dytiscidae', *Peking Natural History Bulletin*, 7 (1) [1932–1933], 17–37.
- Feng, H.T. (1933), 'Classification of Chinese Dytiscidae', *Peking Natural History Bulletin*, 8 (2) [1933–1934], 81–146, pls. 1–2.
- Fery, H. (1992), 'Revision der *saginitus*-Gruppe der Gattung *Coelambus* Thomson (Coleoptera: Dytiscidae)', *Linzer Biologische Beiträge*, 24/1, 339–358.
- Fery, H. (2003), 'Dytiscidae: V. Taxonomic and distributional notes on *Hygrotus* Stephens, with emphasis on the Chinese fauna and a key to the Palearctic species', in *Water Beetles of China*, Volume III, eds. M.A. Jäch and L. Ji, Wien: Zoologisch-Botanische Gesellschaft in Österreich and Wiener Coleopterologenverein, pp. 133–193.
- Fery, H., and Petrov, P. (2006), 'Two new species of the *planus*-group of *Hydroporus* Clairville, 1806 (Coleoptera: Dytiscidae), and notes on other species of the group', *Aquatic Insects*, 28 (2), 81–100.
- Fikáček, M., Angus, R.B., Gentili, E., Jia, F., Minoshima, Y.N., Prokin, A., Przewoźny, M., and Ryndevich, S.K. (2015), 'Family Hydrophilidae Latreille, 1802', in *Catalogue of Palaearctic Coleoptera*, Volume 2/1. Revised and updated edition, eds. I. Löbl and D. Löbl, Leiden: Brill, pp. 37–76.
- Fikáček, M., Jia, F., and Prokin, A. (2012), 'A review of the Asian species of the genus *Pachysternum* (Coleoptera: Hydrophilidae: Sphaeridiinae)', *Zootaxa*, 3219, 1–53.
- Ganglbauer, L. (1901), 'Beiträge zur Kenntniss der paläarktischen Hydrophiliden', *Verhandlungen der kaiserlich-königlichen zoologisch - botanischen Gesellschaft in Wien*, 51, 312–332.
- Gentili, E. (1973), 'Ergebnisse der zoologischen Forschungen von Dr. Z. Kaszab in der Mongolei (Coleoptera). 326. Le specie mongoliche del genere *Laccobius* (Coleoptera: Hydrophilidae)', *Folia Entomologica Hungarica*, Suppl. XXVI, 57–69.
- Gentili, E. (1995), 'Hydrophilidae: 3. The genus *Laccobius* Erichson in China and neighbouring areas (Coleoptera)', in *Water Beetles of China*, Volume I, eds. M.A. Jäch and L. Ji, Wien: Zoologisch-Botanische Gesellschaft in Österreich and Wiener Coleopterologenverein, pp. 245–286.
- Gentili, E., and Chiesa, A. (1976), 'Revisione dei *Laccobius* paleartici (Coleoptera Hydrophilidae)', *Memorie della Società entomologica italiana*, 54 (1975), 1–187.
- Guéorguiev, V.B. (1965), '48. Haliplidae und Dytiscidae. Ergebnisse der zoologischen Forschungen von Dr. Z. Kaszab in der Mongolei (Coleoptera)', *Reichenbachia*, 7, 127–134.
- Guéorguiev, V.B. (1968a), '82. Coleoptera: Haliplidae, Dytiscidae, Gyrinidae II. Ergebnisse der zoologischen Forschungen von Dr. Z. Kaszab in der Mongolei', *Izvestija na Zoologitjeskija Institut s Musei Sofia*, 27, 23–29.
- Guéorguiev, V.B. (1968b), '134. Haliplidae, Dytiscidae III. Ergebnisse der zoologischen Forschungen von Dr. Z. Kaszab in der Mongolei (Coleoptera)', *Reichenbachia*, 9, 287–289.
- Guéorguiev, V.B. (1969), 'Dytiscidae et Gyrinidae (Coleoptera) de Mongolie', *Annales Zoologici Warszawa*, 27, 59–64.
- Guéorguiev, V.B. (1972), 'Haliplidae, Dytiscidae, Gyrinidae IV. Ergebnisse der zoologischen Forschungen von Dr. Z. Kaszab in der Mongolei (Coleoptera)', *Faunistische Abhandlungen*, 4, 31–44.
- Guignot, F. (1947), 'Coléoptères Hydrocanthares', *Faune de France*, 48, 1–286 + 4 unnn. pp.
- Hájek, J. (2017), 'Family Dytiscidae Leach, 1815' in *Catalogue of Palaearctic Coleoptera*, Volume 1. Revised and updated edition. Archostemata – Myxophaga – Adephaga, eds. I. Löbl and D. Löbl, Leiden/Boston: Brill, pp. 846–914.
- Hájek, J., and Fery, H. (2017), 'Family Gyrinidae Latreille, 1810', in *Catalogue of Palaearctic Coleoptera*, Volume 1. Revised and updated edition. Archostemata – Myxophaga – Adephaga, eds. I. Löbl and D. Löbl, Leiden/Boston: Brill, pp. 22–29.
- Hansen, M. (2004), 'Family Hydrophilidae', in *Catalogue of Palaearctic Coleoptera*, Volume 2. Hydrophiloidea – Histeroidea – Staphylinoidea, eds. I. Löbl and A. Smetana, Stenstrup: Apollo Books, pp. 44–68.

- Holmgren, S., Angus, R., Jia, F., Chen, Z.-N., and Bergsten, J. (2016), 'Resolving the taxonomic conundrum in *Graphoderus* of the east Palearctic with a key to all species (Coleoptera, Dytiscidae)', *ZooKeys*, 574, 113–142.
- Jäch, M.A. (1989), 'Revision of the Palearctic species of the genus *Ochthebius* Leach I. The so-called subgenus "*Bothochius*" (Hydraenidae, Coleoptera)', *Koleopterologische Rundschau*, 59, 95–126.
- Jäch, M.A. (1990), 'Revision of the Palearctic species of the genus *Ochthebius* Leach V. The subgenus *Asiobates* (Coleoptera: Hydraenidae)', *Koleopterologische Rundschau*, 60, 37–105.
- Jäch, M.A. (1991), 'Revision of the Palearctic species of the genus *Ochthebius* VII. The *foveolatus* group (Coleoptera: Hydraenidae)', *Koleopterologische Rundschau*, 61, 61–94.
- Jäch, M.A. (1992), 'Revision of the Palearctic species of the genus *Ochthebius* Leach VI. the *marinus* group (Hydraenidae, Coleoptera)', *Entomologica Basiliensia*, 14 [1991], 101–145.
- Jäch, M.A. (1993), 'Taxonomic revision of the Palearctic species of the genus *Limnebius* Leach, 1815 (Coleoptera: Hydraenidae)', *Koleopterologische Rundschau*, 63, 99–187.
- Jäch, M.A. (1998), 'Hydraenidae: II. The Taiwanese and Japanese species of *Ochthebius* Leach (Coleoptera)', in *Water Beetles of China*, Volume II, eds. M.A. Jäch and L. Ji, Wien: Zoologisch-Botanische Gesellschaft in Österreich and Wiener Coleopterologenverein, pp. 173–193.
- Jäch, M.A., and Skale, A. (2015), 'Family Hydraenidae Mulsant, 1844' in *Catalogue of Palaearctic Coleoptera*, Volume 2/1. Revised and updated edition, eds. I. Löbl and D. Löbl, Leiden: Brill, pp. 130–162.
- Jakobson, G.G. (1913), 'Family Hydrophilidae', in *Zhuki Rossii i Zapadnoi Evropy*. St. Petersburg: A.F. Devrien, 10, 838–861.
- Jakowlew, A. (1896), 'Dytiscides nouveaux ou peu connus', *Horae Societatis Entomologicae Rossicae*, 30 [1895–1896], 175–183 [The name of the author was incorrectly spelled as 'Jakovlev' in the Catalogue of Palaearctic Coleoptera].
- Jakowlew, A. (1899), 'Dytiscides nouveaux ou peu connus', *Horae Societatis Entomologicae Rossicae*, 32 [1898–1899], 504–509 [The name of the author was incorrectly spelled as 'Jakovlev' in the Catalogue of Palaearctic Coleoptera].
- Janssens, E. (1967), '91. Hydraenidae. Ergebnisse der zoologischen Forschungen von Dr. Z. Kaszab in der Mongolei (Coleoptera)', *Reichenbachia*, 9, 53–58.
- Janssens, E. (1968), '139. Hydraenidae: *Ochthebius* II. Ergebnisse der zoologischen Forschungen von Dr. Z. Kaszab in der Mongolei (Coleoptera)', *Reichenbachia*, 11, 83–86.
- Janssens, E. (1971), 'Ergebnisse der zoologischen Forschungen von Dr. Z. Kaszab in der Mongolei. 258. Hydraenidae: *Ochthebius* III. (Coleoptera)', *Annales Historico-Naturales Musei Nationalis Hungarici*, 63, Pars Zoologica, 185–187.
- Klausnitzer, B. (1967), '126. Helodidae. Ergebnisse der zoologischen Forschungen von Dr. Z. Kaszab in der Mongolei (Coleoptera)', *Reichenbachia*, 9, 275–277.
- Korsun, O.V., Akulova, G.A., Gordeev, S.Yu., Gordeeva, T.V., and Budaeva, A.A. (2012), 'Nasekomye (Insecta) Onon-Baldzhinskogo nacionalnogo parka (Mongoliya) [Insects of the Onon/Bali National Park (Mongolia)]', *Amurian Zoological Journal*, 4 (1), 18–25. [In Russian with English abstract].
- Mazzoldi, P. (2003), 'Gyrinidae' in *Catalogue of Palaearctic Coleoptera*, Volume 1, eds. I. Löbl and A. Smetana, Stenstrup: Apollo Books, pp. 26–30.
- Motschulsky, V. (1853), *Hydrocanthares de la Russie*, Helsingfors: Société de Littérature Finnoise, 15 pp.
- Nilsson, A.N. (1994), 'Two new East Palearctic *Agabus* species of the *adpressus*- and *confinis*-groups (Coleoptera, Dytiscidae)', *Entomologica Fennica*, 5, 169–175.
- Nilsson, A.N. (2001), 'A new *Gyrinus* species from Mongolia (Coleoptera: Gyrinidae)', *Entomologica Fennica*, 12, 121–124.
- Nilsson, A.N. (2002), 'Taxonomic and faunistic notes on East Palaearctic *Colymbetes* species, with the description of a new species from the Far East (Coleoptera: Dytiscidae)', *Entomologica Fennica*, 13, 189–193.

- Nilsson, A.N. (2003), 'Dytiscidae', in *Catalogue of Palaearctic Coleoptera*, Volume 1, eds. I. Löbl and A. Smetana, Stenstrup: Apollo Books, pp. 35–78.
- Nilsson, A.N., and Hájek, J. (2019), 'Catalogue of Palaearctic Dytiscidae (Coleoptera)', Internet version 2019-01-01. http://waterbeetles.eu/documents/PAL_CAT_Dytiscidae_2019.pdf.
- Ochs, G. (1967), 'Zur Kenntnis der europäischen *Gyrinus*-Arten', *Entomologische Blätter für Biologie und Systematik der Käfer*, 63 (3), 174–186.
- Palatov, D.M., and Maryinskiy, V.V. (2017), 'Benthic macroinvertebrates of the watercourses of the South Khangai (Mongolia)', *Ukrainian Journal of Ecology*, 7 (4), 644–648.
- Prokin, A.A. (2018), 'Initial stage of macrozoobenthos formation in reservoirs of Western Mongolia', *Inland Water Biology*, 11 (2), 161–172.
- Prokin, A.A., and Zhavoronkova, O.D. (2015), 'Water macroinvertebrates of Lakes Orog and Tatsyn-Tsagaan (Western Mongolia) in the beginning of water level stabilization period', *Ecosystems of Central Asia under current conditions of socio-economic development. Proceedings of International Conference*, 2, Ulaanbaatar, 90–93. [In Russian, with English abstract].
- Ryndevich, S.K. (2003), 'Some records of Dytiscidae, Helophoridae, Hydrochidae, Hydrophilidae and Hydraenidae in Russia and other regions', *Latissimus*, 16, 17–20.
- Ryndevich, S.K., Jia, F., and Fikáček, M. (2017), 'A review of the Asian species of the *Cercyon unipunctatus* group (Coleoptera: Hydrophilidae: Sphaeridiinae)', *Acta Entomologica Musei Nationalis Pragae*, 57 (2), 535–576.
- Sazhnev, A.S., and Prokin, A.A. (2017), 'Georissidae (Coleoptera: Hydrophiloidea) – a new beetle family for the fauna of Mongolia', *Far Eastern Entomologist*, 347, 22–24.
- Schödl, S. (1991), 'Revision der Gattung *Berosus* Leach 1. Teil: Die paläarktischen Arten der Untergattung *Enoplurus* (Coleoptera: Hydrophilidae)', *Koleopterologische Rundschau*, 61, 111–135.
- Schödl, S. (1993a), 'Nachtrag zur Revision der paläarktischen und orientalischen Arten der Gattung *Berosus* Leach (Untergattung *Enoplurus* Hope) (Insecta: Coleoptera: Hydrophilidae)', *Entomological Problems*, 24 (2), 29–34.
- Schödl, S. (1993b), 'Revision der Gattung *Berosus* Leach 3. Teil: Die paläarktischen und orientalischen Arten der Untergattung *Berosus* s.str. (Coleoptera: Hydrophilidae)', *Koleopterologische Rundschau*, 63, 189–223.
- Schödl, S. (1998), 'Taxonomic revision of *Enochrus* (Coleoptera: Hydrophilidae) I. The *E. bicolor* species complex', *Entomological Problems*, 29 (2), 111–127.
- Sharp, D. (1882), 'On aquatic carnivorous Coleoptera or Dytiscidae', *The Scientific Transactions of the Royal Dublin Society*, (II) 2, 179–1003, pls. VII–XVIII.
- Shaverdo, H.V. (2004), 'New records and additional data on the distribution of some species of *Hydroporus* Clairville (Coleoptera: Dytiscidae)', *Koleopterologische Rundschau*, 74, 143–146.
- Shaverdo, H., and Fery, H. (2001), '*Hydroporus crinitisternus* sp. nov. from South-Eastern Kazakhstan and Mongolia (Coleoptera: Dytiscidae)', *Entomological Problems*, 32 (1), 33–36.
- Shaverdo, H.V., and Fery, H. (2006) '*Oreodytes shorti* sp.n. from Mongolia (Coleoptera: Dytiscidae)', *Koleopterologische Rundschau*, 76, 35–42.
- Shaverdo, H.V., Short, A.E.Z., and Davaadorj, E. [Enkhnasan, D.] (2008), 'Diving beetles of Mongolia (Coleoptera: Dytiscidae)', *Koleopterologische Rundschau*, 78, 43–53.
- Short, A.E.Z., and Kanda, K. (2006), 'The water scavenger beetles of Mongolia with new records from the Selenge River Basin (Coleoptera: Hydrophilidae)', *Proceedings of the Academy of Natural Sciences of Philadelphia*, 155, 9–12.
- Short, A.E.Z., Torres, P.J., and Vondel, B.J. van (2010), 'A review of the crawling water beetles of Mongolia (Coleoptera: Haliplidae)', *Proceedings of the Academy of Natural Sciences of Philadelphia*, 159, 205–212.
- Smetana, A. (1980), 'Revision of the genus *Hydrochara* Berth. (Coleoptera: Hydrophilidae)', *Memoirs of the Entomological Society of Canada*, 111, 4 unnn. pp. + 1–100.
- Vondel, B.J. van (2003), 'Haliplidae', in *Catalogue of Palaearctic Coleoptera*, Volume 1, eds. I. Löbl and A. Smetana, Stenstrup: Apollo Books, pp. 35–78.

- Vondel, B.J. van (2017), 'Family Haliplidae Aubé, 1836', in *Catalogue of Palaearctic Coleoptera*, Volume 1. Archostemata – Myxophaga – Adephaga. Revised and updated edition, eds. I. Löbl and D. Löbl, Leiden: Brill, pp. 838–843.
- Wu, C.F. (1937), *Catalogus Insectorum Sinensium*, Volume 3, Peiping: The Fan Memorial Institute of Biology, 1312 pp.
- Zaitzev, P. (1908), 'Zwei neue sibirische Dytisciden (Coleoptera)', *Russkoe Entomologicheskoe Obozrenie*, 7 (4) [1907], 238–244.
- Zaitzev, P. (1910), 'II. Beiträge zur Kenntnis der Wasserkäfer des Ostens von Nordsibirien. Haliplidae, Dytiscidae, Gyrinidae, Hydrophilidae, Georyssidae, Dryopidae und Heteroceridae', *Mémoires de l'Académie impériale des sciences de St.-Petersbourg*, 18 (9), 11–52.
- Zaitzev, P.A. (1953), 'Coleoptera, IV. Amphizoidae, Hygrobiidae, Haliplidae, Dytiscidae, Gyrinidae', in *Fauna SSSR*, 58, Moscow-Leningrad: Izdatel'stvo AN SSSR, 376 pp.
- Zimmermann, A. (1919), 'Die Schwimmkäfer des Deutschen Entomologischen Museums in Berlin-Dahlem', *Archiv für Naturgeschichte*, A, 83 (12) [1917], 68–249.
- Zimmermann, A. (1927), 'Bemerkungen über einige Schwimmkäfer des Senckenberg-Museums nebst drei Neubeschreibungen', *Senckenbergiana*, 9, 32–38.
- Zimmermann, A. (1931), 'Monographie der paläarktischen Dytisciden. II. Hydroporinae (2. Teil: Die Gattung *Hydroporus* Clairv.)', *Koleopterologische Rundschau*, 17, 97–159.
- Zimmermann, A. (1934), 'Monographie der paläarktischen Dytisciden. V. Colymbetinae (1. Teil: Copelatini, Agabini: Gattung *Gaurodytes* Thoms.)', *Koleopterologische Rundschau*, 20, 138–214.

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