Beetles of the superfamily Hydrophiloidea of Kemerovo Area

Жесткокрылые надсемейства Hydrophiloidea Кемеровской области

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КЛЮЧЕВЫЕ СЛОВА: Coleoptera, Hydrophiloidea, фауна, новые находки, Кемеровская область, Сибирь.

ABSTRACT. An annotated checklist of beetles of the superfamily Hydrophiloidea of Kemerovo Area is given. It includes 55 species of three families: Helophoridae (11 species), Hydrochidae (3) and Hydrophilidae (41). Helophorus discrepans Rey, 1885 and Cryptopleurum crenatum (Kugelann, 1794) are recorded for the first time for the Asian part of Russia. Helophorus aspericollis Angus, 1973 and Enochrus melanocephalus (Olivier, 1792) are recorded for the first time for the Western Siberia. Occurrence of species Cercyon ustulatus (Preyssler, 1790) in Western Siberia is confirmed. A total of 31 species are recorded for the first time in Kemerovo Area.

РЕЗЮМЕ. Приведён аннотированный список жесткокрылых надсемейства Hydrophiloidea Кемеровской области. Он включает 55 видов из трёх семейств: Helophoridae (11 видов), Hydrochidae (3) и Hydrophilidae (41). Helophorus discrepans Rey, 1885 и Cryptopleurum crenatum (Kugelann, 1794) впервые приводятся для азиатской части России. Helophorus aspericollis Angus, 1973 и Enochrus melanocephalus (Olivier, 1792) впервые указываются для Западной Сибири. Подтверждено обитание в Сибири Cercyon ustulatus (Preyssler, 1790). В целом, 31 вид впервые приводится для Кемеровской области.

Introduction

Hydrophylid line of the superfamily Hydrophiloidea (Hydrophiloidea s.str.) includes six families: Helophoridae, Georissidae, Epimetopidae, Hydrochidae, Spercheidae and Hydrophilidae and more than 3500 recent species [Hansen, 1999; Short, 2017]. Five families, except Epimetopidae, and no less than 210 species are known in the territory of Russia. In Western Siberia, only families Helophoridae, Georissidae, Hydrochidae and Hydrophilidae were reliably recorded [Fikáček et al., 2015; Przewoźny, 2019].

The fauna of Hydrophiloidea of Kemerovo Area is poorly studied. There is only one special publication dedicated to the region’s hydrophilid beetles [Efimov, 2010]. A few information about representatives of the region’s superfamily is also contained in a number of faunistic works [Efimov, Zinchenko, 2015; Ryndevich, 2003a, 2017; Hebauer, Ryndevich, 2005], taxonomic revisions and review [Ryndevich, 2003b, 2004; Ryndevich et al., 2017]. In total the listed papers cite data on one species of Helophoridae, two species of Hydrochidae, and 24 species of Hydrophilidae.

This article includes new findings of Hydrophilid beetles that expand knowledge of the fauna of aquatic beetles as of Kemerovo Area and Western Siberia, and the entire Asian part of Russia.

Material and methods

The present study is based mainly on the material which has been collected by the second author, and has been provided by collegues.

The main part of the material was determined by the first author, part of Helophoridae was determined by A.A. Prokin and A.S. Sazhnev (Borok) and part of Hydrophilidae and Helophoridae by V.K. Zinchenko (Novosibirsk).

Photographs of beetles and their details were taken with a Nikon D3200 camera, equipped with a microscope objective LOMO PLAN 3.5×0.10. Photographs of genitalia were taken by Canon PowerShot A640 camera, attached with a LOMO Biolam R-17 compound microscope. Stacking and processing of photos carried
out in programs Helicon Focus 5.3 and Adobe Photoshop CS3. The list of all species of Hydrophiloida noted for the Kemerovo Area with reference to literature, new finds, general distribution and the necessary comments is given below.

A significant part of the material was collected in the vicinity of the biological station of KTSU “Azhendarovo”, Krapivino district, 8 km SSW of Saltymakovo village – 54°45′18″ N 87°01′43″ E. In the text this locality is briefly indicated as “Azhendarovo”.

Additionally some frequently mentioned names of the collectors are abbreviated as follows: F.A. Budaev (FB), D.A. Efimov (DE), A.V. Korshunov (AK).

Studied material is deposited in private collections of authors, unless otherwise indicated, and partly in the collections of Institute for Systematics of Animals (ISEA, Novosibirsk, Russia) and in Papanin Institute for Biology of Inland Waters Russian Academy of Sciences (IBIW RAS, Borok, Russia).

Species new to the Kemerovo Area are indicated by one asterisk (*), species new for the Western Siberia are indicated by double asterisk (**). The species wrong determined earlier are excluded from through number- ing. The names of the species are given in a systematic order, but without specifying taxa of a rank lower than the family.

List of taxa

Family HELOPHORIDAE Leach, 1815

1. Helophorus (Rhopalohelophorus)aspericollis Angus, 1973**

   MATERIAL EXAMINED. Kemerovskiy Distr., Krekovo, 55°31′N 85°52′E, 29.VII.2009, 6.VII.2013, DE (8 exs.); Izhmorskiy Distr., Tunda, pond, 18.VIII.2018, DE (1 ex.).

   DISTRIBUTION. Eastern Siberia, Russian Far East, Kazakhstan, Mongolia, Western China [Fikáček et al., 2015; Przewoźny, 2019]. New for Kemerovo Area and Western Siberia.

2. Helophorus (Rhopalohelophorus)auricollis Eschscholtz, 1822

   REFERENCES. Ryndevich [2003a].

3. Helophorus (Rhopalohelophorus)barbaraec Anguss, 1985*

   MATERIAL EXAMINED. Krapivinskiy Distr., near “Azhendarovo”, 28.V.–3.VI.2014, FB (1 ex., ISEA), A. Prokin and A. Sazhnev det.

   DISTRIBUTION. South part of European Russia, Western Siberia, Kazakhstan [Fikáček et al., 2015; Przewoźny, 2019]. New for Kemerovo Area.

4. Helophorus (Rhopalohelophorus) croaticus Kuwert, 1886*

   MATERIAL EXAMINED. Krapivinskiy Distr., near “Azhendarovo”, 28.V.–3.VI.2014, FB (3 exs., ISEA), A. Prokin and A. Sazhnev det.

5. Helophorus (Rhopalohelophorus) discrepans Rey, 1885**

   MATERIAL EXAMINED. Krapivinskiy Distr., near “Azhendarovo”, 2.V.2014, 28.V.–3.VI.2014, FB (2 exs., ISEA), A. Prokin and A. Sazhnev det.

   DISTRIBUTION. Europe, Western and Eastern Siberia, Turkey [Fikáček et al., 2015; Przewoźny, 2019]. New for Kemerovo Area.

6. Helophorus (Rhopalohelophorus) grumularis (Linnaeus, 1760)*

   MATERIAL EXAMINED. Kemerovskiy Distr., Krekovo, 55°31′N 85°52′E, 23.VII.2009, 29.VII.2009, DE (2 exs.); Krapivinskiy Distr., “Azhendarovo”, lake, 54°45′46″ N 87°01′49″ E, 20.V.2012, DE (1 ex.); Yayskiy Distr., Ishim, shore of Yaya River, 10.VII.2012, DE (2 exs.); Tyazhynsky Distr., Kamyshlovka, 55°58′N 88°32′E, bog, 10.VI.2015, DE (3 exs.); Priomskiy, pump house, 12.V.2015, FB (1 ex., IBIW), A. Prokin and A. Sazhnev det.; Promyslennovskiy Distr., Krasninskoe, 12.V.2015, FB (1 ex., IBIW), A. Prokin and A. Sazhnev det.; Kemerovskiy Distr., Pod yakovo, Bol’shaya Podikova River, 9.VII.2015, DE (3 exs.); Kemerovo, FPK, lake, 55°21′61.0″N 87°13′66.1″E, 26.V.2016, FB (1 ex., IBIW), A. Prokin and A. Sazhnev det.; Izhmorskiy Distr., Novyy Svet, shore of Zolotoy Kitai river, 55°46′160″N 86°39′343″E, 11.VII.2018, DE (1 ex.); Izhmorskiy Distr., Tunda, pond, 18.VIII.2018, DE (3 exs.).

   DISTRIBUTION. Europe, Western and Eastern Siberia, Turkey [Fikáček et al., 2015; Przewoźny, 2019]. New for Kemerovo Area.

7. Helophorus (Rhopalohelophorus) lapponicus Thomson, 1853*

   MATERIAL EXAMINED. Kemerovskiy Distr., Krekovo, 55°23′N 86°07′26″E, 21.V.2016, FB (1 ex., IBIW), A. Prokin and A. Sazhnev det.

   DISTRIBUTION. Eastern Europe, Western and Eastern Siberia, Russian Far East, Middle East, Central Asia, Turkey [Fikáček et al., 2015; Przewoźny, 2019]. New for Kemerovo Area.

8. Helophorus (Rhopalohelophorus) nanus Sturm, 1836*

   MATERIAL EXAMINED. Kemerovo, Leninskiy Distr., 7.VI.2009, AK (1 ex.); Krapivinskiy Distr., “Azhendarovo”, lake, 54°45′46″ N 87°01′49″ E, 20.V.2012, DE (1 ex.); Kemerovo, Kirovskiy Distr., pond, 2.VI.2016, FB (2 exs., IBIW), A. Prokin and A. Sazhnev det.

   DISTRIBUTION. Europe, Western and Eastern Siberia, Russian Far East, Turkey, Northern China [Fikáček et al., 2015; Przewoźny, 2019]. New for Kemerovo Area.

9. Helophorus (Rhopalohelophorus) paraminatus Anguss, 1986*

   MATERIAL EXAMINED. Krapivinskiy Distr., near “Azhendarovo”, 24.VII.2009, AK (2 exs.).

   DISTRIBUTION. Central and Eastern Europe, Western and Eastern Siberia, Turkey [Fikáček et al., 2015; Przewoźny, 2019]. New for Kemerovo Area.

10. Helophorus (Rhopalohelophorus) redtenbacheri Kuwert, 1886*

   MATERIAL EXAMINED. Krapivinskiy Distr., near “Azhendarovo”, 28.V.–03.VI.2014, FB (1 ex.), V. Zinchenko det.
DISTRIBUTION. Central and Eastern Europe, Western Siberia, Kazakhstan [Fikáček et al., 2015; Przewoźny, 2019]. New for Kemerovo Area.

11. Helophorus (Rhopalohelophorus) strigifrons Thomson, 1868*

MATERIAL EXAMINED. Krapivinskiy Distr., near “Ashendarovo”, 24.VII.2009, AK (1 ex.); Krapivinskiy Distr., near Sarapki, Un’ga River flood-plane, 55°04´N 86°24´E, 14.V.2017, DE (1 ex.); Yayskiy Distr., Beket, 56°22´N 86°28´E, water’s edge, 15.VI.2018, DE (1 ex.), V. Zinchenko det.

DISTRIBUTION. Europe, Western and Eastern Siberia, Turkey [Fikáček et al., 2015; Przewoźny, 2019]. New for Kemerovo Area.

12. Hydrochus brevis (Herbst, 1793)

REFERENCES. Efimov, Zinchenko [2015].

MATERIAL EXAMINED. Tyazhynskiy Distr., Kamyshlovka, 55°58´N 88°32´E, bog, 10.VI.2015, DE (1 ex.).

DISTRIBUTION. Europe, Western and Eastern Siberia, Turkey [Ryndevich, 2014; Efimov, Zinchenko, 2015; Fikáček et al., 2015].

13. Hydrochus elongatus (Schaller, 1783)

REFERENCES. Efimov, Zinchenko [2015].

MATERIAL EXAMINED. Yayskiy Distr., Beket, 56°22´N 86°28´E, water’s edge, 15.VI.2018, DE (1 ex.).
DISTRIBUTION. Europe, Western and Eastern Siberia, Central Asia, Turkey [Fikáček et al., 2015; Przewoźny, 2019].

14. Hydrochus ignicollis Motschulsky, 1860*

MATERIAL EXAMINED. Izhmorskoy Distr., Novyy Svet, shore of Zolotoy Kiat river, 55°46’N 86°39’E, 11.VII.2018, DE (1 ex.).

DISTRIBUTION. Europe, Western Siberia, Turkey [Fikáček et al., 2015; Przewoźny, 2019]. New for Kemerovo Area.

Family HYDROPHILIDAE Latreille, 1802

15. Berosus (Berosus) luridus Linnaeus, 1760*

MATERIAL EXAMINED. Lenin-Kuznetskiy Distr., vicinity of Podgornoe, 54°28’10”N 86°00’26”E, pit, 1.V.2017, FB (1 ex.).

DISTRIBUTION. Western Palearctic [Fikáček et al., 2015; Przewoźny, 2019]. New for Kemerovo Area.

REMARKS. Probably the most eastern finding of the species. All reports for Western Siberia [Fikáček et al., 2015] refers to the Chelyabinsk Area [Prokin et al., 2008]. Reports of the species for the Irkutsk Area [Berlov, 1978] requires verification.

16. Berosus (Enophas) spinosus (Steven, 1808)

REFERENCES. Efimov [2010].

MATERIAL EXAMINED. No specimens examined by authors. DISTRIBUTION. Western Palearctic, China [Fikáček et al., 2015; Przewoźny, 2019].

18. Laccobius (Dimorpholaccobius) bipunctatus (Fabricius, 1775)*

MATERIAL EXAMINED. Kemerovskiy Distr., Zhuravlyovo, 55°08’135”N 86°20’058”E, 21.V.2016, FB (3 exs.).

DISTRIBUTION. Western Palearctic [Fikáček et al., 2015; Przewoźny, 2019]. New for Kemerovo Area.

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

MATERIAL EXAMINED. Kemerovo, small pool, 16.VIII.2009, DE (1 ex.); Kemerovo, water’s edge, 9.V.2009, V. Polevod leg. (1 ex.); Kuznetsk Alatau, cordon “Verkhnyaya Ters´”, Verkhnyaya Ters´ River, 55°46’N 86°39’E, 11.VII.2018, DE (1 ex.).

REMARKS. All records from the Kemerovo Area previously cited under this name [Efimov, 2010] belong to

20. Laccobius (Laccobius) colon (Stephens, 1829)*

MATERIAL EXAMINED. Krapivinsky Distr., “Azhendarovo”, lake, 54°45’46”N 87°01’49”E, 21–23.V.2011, 20.V.2012, AK (12 exs.) Izhmorskoy Distr., Tunda, pond, 18.VIII.2018, DE (1 ex.).

DISTRIBUTION. Europe, Northern and Central Asia, Mongolia, China [Fikáček et al., 2015; Przewoźny, 2019]. New for Kemerovo Area.

21. Hydrobius fuscipes (Linnaeus, 1758)

REFERENCES. Efimov [2010].

MATERIAL EXAMINED. Kemerovo, at light, 1.VI.1998, AK (1 ex.), V. Zinchenko det.; Goromaya Shoria, Tashatalog skyi Distr., 4 km N Sheregesha, Zelenaya Mt., 29.–31.VI.1999, DE (1 ex.), V. Zinchenko det.; Kemerovskiy Distr., near Sukhaya Rechka, 31.VII.2000, D. Sushchev (1 ex.), V. Zinchenko det.; Goromaya Shoria, Mustag Mt., 8. VII.2001, DE (1 ex.), V. Zinchenko det.; Kemerovskiy Distr., Osinovka, at light, 16. VIII.2002, AK (1 ex.), V. Zinchenko det.; Yashkinskiy Distr., Pishko, at light, 17.VII.2003, AK (1 ex.), V. Zinchenko det.; Krapivinsky Distr., “Azhendarovo”, 20.–28.V.2012, 28.–3.V.2014, DE (20 exs.), FB (AK 30 exs.), V. Zinchenko det.; Kemerovo, 3.IX.2013, FB (1 ex.), V. Zinchenko det.; Goromaya Shoria, near Shabanovo, mouth of Sukhoy creek, 54°40’N 85°32’E, 25.IV.2014, DE, FB (1 ex.), Kemerovskiy Distr., Starocherovo, 55°10’N 86°22’E, 22.VI.2015, FB (3 exs.), Kemerovskiy Distr., Elykaeo, 55°20’N 86°07’E, 21.VI.2016, FB (2 exs.), Goromaya Shoria, near Shabanovo, mouth of Sukhoy creek, 54°40’N 85°32’E, 25.IV.2014, DE (1 ex.), Yashkinskiy Distr., near Akatsiya, 55°42’N 85°39’E, 20.V.2018, DE (4 exs.).

DISTRIBUTION. Holarctic [Hansen, 1999; Fikáček et al., 2015; Przewoźny, 2019].

REMARKS. Currently, Hydrobius fuscipes is considered as a complex of species, the taxonomic composition of which is not completely understood [Fossen et al., 2016]. The material presented here needs further study.

22. Hydrochara caraboides (Linnaeus, 1758)

REFERENCES. Efimov [2010].

MATERIAL EXAMINED. Krapivinsky, 25.VII.2007, T. Platonova leg. (1 ex.); Krapivinsky Distr., near “Azhendarovo”, 10.–22.VIII.2010, 20.–28.V.2012, 28.V.–03.V.2014, DE, FB, AK, A. Kostyunin leg. (6 exs.); vicinity of “Azhendarovo”, moth of Bugas River, 54°44’N 87°01’E, 10.–30.VII.2008, AK (2 exs.); Promyshlenovskiy Distr., Morozovo, pool, 22.VI.2012, DE (1 ex.).

DISTRIBUTION. Europe, Northern Africa, Western and Eastern Siberia, Turkey, Iran [Fikáček et al., 2015; Przewoźny, 2019].

– Hydrochara dichroma (Fairmaire, 1892)

REMARKS. Records of this species for the Kemerovo Area [Efimov, 2010] is based on a mistakenly signed specimen of Hydrobius fuscipes (L.).

23. Hydrophilus aterrimus Eschscholtz, 1822*

MATERIAL EXAMINED. Kemerovskiy Distr., Beregovoy, at night on road, 18.VIII.1999, Yu. Danchenko leg. (1 ex.); Krapivinsky Distr., “Azhendarovo”, lake, 54°45’46”N 87°01’49”E, 4.VII.2001, N. Teplova leg. (1 ex.); Kemerovo, near airport, 7.VIII.2003 (2 exs.); Mariinsk, 3.VIII.2004, N. Lobova leg. (1 ex.), Promyshlenovskiy Distr., Mustag Mt., 8.VII.2001, N. Teplova leg. (1 ex.), V. Zinchenko det.; Goromaya Shoria, near Shabanovo, mouth of Sukhoy creek, 54°40’N 85°32’E, 25.VII.2014, DE (1 ex.), Promyshlenovskiy Distr., Sheregesha, Zelenaya Mt., 29–31.VII.1999, DE (1 ex.), V. Zinchenko det.; Gornaya Shoriya, Mustag Mt., 8.VII.2001, N. Lobova leg. (1 ex.), V. Zinchenko det.; Leninsk-Kuznetskiy Distr., near Shabanovo, mouth of Sukhoy creek, 54°40’N 85°32’E, 25.VII.2014, DE (1 ex.).

DISTRIBUTION. Europe, Central Asia, Turkey, Mongolia, China [Fikáček et al., 2015; Przewoźny, 2019].

REMARKS. See comment for the following species.

– Hydrophilus piceus (Linnaeus, 1758)

REMARKS. All records from the Kemerovo Area previously cited under this name [Efimov, 2010] belong to
Beetles of the superfamily Hydrophilioidea of Kemerovo Area

H. aterrimus. The distribution of the species in Western Siberia as a whole requires clarification.

24. Anacaena lutescens (Stephens, 1829)

REFERENCES. Ryndevich [2003b]; Efimov [2010].

MATERIAL EXAMINED. Tyazhynskiy Distr., left shore of Uryup River near confluence with Chulym River, ozobok, 1.IV.2008, N. Teplova leg. (1 ex.); Kunetzkis Alatau, cordon “Verkhnyaya Ters’”, Verkhnyaya Ters’ River, under stones, h=409 m a.s.l., 04.VII.2009, AK (1 ex.); Krapivinskiy Distr., near “Azhendarovo”, 24.VII.2009, 20–28.V.2012, 20–28.V.2012, 2.04.V.2014, 28.V.–03.VI.2014, AK, DE, FB (15 exs.); Promyshlennovskiy Distr., Krasnosti, 12.V.2015, FB (6 exs.); Tyazhynskiy Distr., Kamysliivka, 55°58´N 88°32´E, 10.VI.2015, DE (1 ex.); Kemerovskiy Distr., Pod yakoko, Bolshaya Podkova River, 09.VII.2015, DE (1 ex.); Kemerovskiy Distr., Starocherepovskiy, 55°10´N 86°22´E, 7.V.2015, FB (1 ex.); Kemerovskiy Distr. Zhuravleva, 55°08´N 86°20´E, 21.V.2016, FB (3 exs.); Kemerovskiy Distr., Elykaevo, 55°20´N 86°07´E, 21.V.2016, FB (12 exs.); Kemerovskiy Distr., near Bannovo, 55°07´N 86°04´E, 4.VII.2017, DE (1 ex.); Krapivinskiy Distr., near Akashnov, Un´ga River flood-plane, 55°40´N 86°22´E, 25.VII.2014, DE (1 ex.); Krapivinskiy Distr., 2–3 km S of Pushkino, 54°44´N 85°28´E, 25.VII.2014, DE (2 exs.); Krapivinskiy Distr., near Sarapki, Un´ga River, 55°04´N 86°24´E, 14.VII.2017, FB (3 exs.); Krapivinskiy Distr., vicinity of Podgornoe, 54°28´10´´N 86°00´26´´E, 1.VI.2017, 15.VIII.2017, FB (2 exs.); Kemerovskiy Distr., Osinovskiy, near Bannovo, 55°00´N 86°22´E, 21.V.2016, FB (6 exs.).

 DISTRIBUTION. Europe, Turkey, Western and Eastern Siberia, Iran [Fikáček et al., 2015; Przewoźny, 2019]. New for Kemerovo Area.

29. Enochrus (Lumetus) ochropterus (Marsham, 1802)*

MATERIAL EXAMINED. Tyazhynskiy Distr., left shore of Uryup River near confluence with Chulym River, ozobok, 10.VII.2012, DE (1 ex.); Krapivinskiy Distr., near “Azhendarovo”, 02.V.2014, FB (2 exs.), V. Zinchenko det.; Kemerovskiy Distr., Elykaevo, 55°20´N 86°07´E, 21.V.2016, FB (4 exs.).

 DISTRIBUTION. Europe, Turkey, Western and Eastern Siberia, Central Asia, Western and Eastern Siberia, China [Fikáček et al., 2015; Przewoźny, 2019]. New for Kemerovo Area.

30. Enochrus (Lumetus) quadripunctatus (Herbst, 1797)*

MATERIAL EXAMINED. Yashkinskiy Distr., Ishim, shore of Yaya River, 10.VII.2012, DE (1 ex.); Kemerovskiy Distr., Osinovskiy, at light, 16.VIII.2012, AK (1 ex.); Leninsk-Kuznetskiy Distr., near Shabanovo, moth of Sukhoy creek, 54°40´N 85°32´E, 25.VII.2014, DE (2 exs.); Kemerovskiy Distr., Starocherepovskiy, 55°10´N 86°22´E, 22.VI.2015, FB (1 ex.); Kemerovskiy Distr., Elykaevo, 55°20´N 86°07´E, 21.V.2016, FB (17 exs.); Kemerovskiy Distr., Kransnoe Lake, 25.VII.2017, 21.IX.2017, FB (4 exs.); Promyshlennovskiy Distr., 2–3 km S of Pushkino, 54°44´N 85°28´E, 8.VIII.2018, DE (2 exs.).

 DISTRIBUTION. Europe, Turkey, Iran, Northern and Central Asia, Mongolia, China [Fikáček et al., 2015; Przewoźny, 2019]. New for Kemerovo Area.

31. Enochrus (Lumetus) testaceus (Fabricius, 1801)*

MATERIAL EXAMINED. Leninsk-Kuznetskiy Distr., vicinity of Podgornoe, 54°28´10´´N 86°00´26´´E, pit, 1.VI.2017, 15.VII.2017, FB (2 exs.); Krapivinskiy Distr., vicinity of Zelenogorskiy, lake, 55°01´N 87°03´E, 9.VII.2017, DE (1 ex.).

 DISTRIBUTION. Europe, Northern Africa, Turkey, Iran, Kazakhstan, Western China, Northern Asia, Mongolia, Japan [Fikáček et al., 2015; Przewoźny, 2019; Prokin et al., 2019]. New for Kemerovo Area.

32. Enochrus (Methydrus) affinis (Thunberg, 1794)*

MATERIAL EXAMINED. Promyshlennovskiy Distr., Morozovo, 22.VI.2012, DE (1 ex.); Yasiykiy Distr., Ishim, shore of Yaya River, 10.VII.2012, DE (1 ex.); Krapivinskiy Distr., near “Azhendarovo”, 20–28.V.2012, 28.V.–03.VI.2014, AK, FB (3 exs.), V. Zinchenko det.; Leninsk-Kuznetskiy Distr., near Shabanovo, moth of Sukhoy creek, 54°40´N 85°32´E, 25.VII.2014, DE (1 ex.); Starocherepovskiy, 22.VI.2015, FB (5 exs.); Kemerovskiy Distr., Elykaevo, 55°20´N 86°07´E, 21.V.2016, FB (3 exs.); Kemerovskiy Distr., Krasnosti, 55°31´N 85°52´E, pond, 20.V.2017, DE (1 ex.); Leninsk-Kuznetskiy Distr., vicinity of Podgornoe, 54°28´10´´N 86°00´26´´E, 1.IV.2017, 15.VII.2017, FB (2 exs.), Kemerovskiy Distr., Kransnoe Lake, 25.VII.2017, 21.IX.2017, FB (4 exs.); Promyshlennovskiy Distr., 2–3 km S of Pushkino, 54°44´N 85°28´E, 8.VIII.2018, DE (1 ex.).

 DISTRIBUTION. Europe, Northern Africa, Iran, Kazakhstan, Northern Asia, China, Japan [Fikáček et al., 2015; Przewoźny, 2019]. New for Kemerovo Area.

33. Enochrus (Methydrus) coarctatus (Gredler, 1863)*

MATERIAL EXAMINED. Krapivinskiy Distr., near “Azhendarovo”, 20.VII.2012, 20–28.V.2012, 2.V.2014, AK, DE, FB (13 exs.), Yasiykiy Distr., Beket, 56°22´N 86°28´E, 15.VI.2018, DE (1 ex.).
34. Helocharis obscurus (Müller, 1776)

REFERENCES. Efimov, Zinchenko [2015].

MATERIAL EXAMINED. Kemerovo, small pool. 16.VIII.2009 (1 ex.); Tazhayzkynski Dist., Kamshlova, 55°58´N 88°32´E, 10.VI.2015, DE (1 ex.); Kemerovski Dist., Starochervovo, 55°10´N 86°22´E, 22.VI.2015, 07.IX.2015, FB (17 exs.); Kemerovski Dist., Elykaevo, 55°20´N 86°07´E, 21.V.2016, FB (7 exs.;); Krapivinskiy Dist., near Bannovo, 55°07´N 86°42´E, 14.V. 2017, DE (1 ex.); Leninsk-Kuznetskiy Dist., vicinity of Podgoroe, 54°40´N 85°32´E, 25.VII.2014, DE (1 ex.); Prokop’evski Dist., near Uskatskiy, Krivoy Uskat River, in water, 21.VIII.2014, DE (1 ex.); V. Zinchenko det.

DISTRIBUTION. Europe, Turkey, Northern and Central Asia, Mongolia, China [Fikáček et al., 2015; Przewoźny, 2019], New for Kemerovo Area.
Beetles of the superfamily Hydrophiloidea of Kemerovo Area

47. Cryptopleurum crenatum (Kugelann, 1794)**
   Figs. 3, 5.
   MATERIAL EXAMINED. Kemerovskiy Distri., Krekovo, 55°31’ N 85°52’ E, 22.VII.2012, DE (3 exs.)
   DISTRIBUTION. Europe, Turkey, Kazakhstan [Fikáček et al., 2015; Przewoźny, 2019]. New for Kemerovo Area and Asian part of Russia.
   REMARKS. At least one find of the species was recorded in the USA on the east coast (Washington) [Smetana, 1978]. However, C. crenatum, unlike the other two species of the genus mentioned here, was not noted as an introducer anywhere. It is known from Asia only in two specimens: from Turkey (Trabzon) [Marten, 2009] and Kazakhstan (the vicinity of Almaty) [Prokin, 2010].

48. Cryptopleurum minutum (Fabricius, 1775)*
   MATERIAL EXAMINED. Kemerovskiy Distri., Krekovo, 55°31’ N 85°52’ E, 22.VII.2012, DE (4 exs.); Belovskiy Distri., vicinity of Novy Borodok, Bachatskie Sopki, 16.VIII.2014, DE (1 ex.).
   DISTRIBUTION. Europe, Northern and Central Asia, China [Fikáček et al., 2015; Przewoźny, 2019], Canada, USA (introduced) [Hansen, 1999]. New for Kemerovo Area.

49. Cryptopleurum subtile Sharp, 1884
   REFERENCES. Efimov [2010].
   MATERIAL EXAMINED. No specimens examined by authors.
   DISTRIBUTION. Polyzonal distribution [Hansen, 1999; Fikáček et al., 2015; Przewoźny, 2019].
   – Megasternum concinnum (Marsham, 1802)
   REMARKS. Findings previously published as M. concinnum [Hebauer, Ryndevich, 2005] are currently classified as M. immaculatum (Stephens, 1829) [Ryndevich, 2017].

50. Megasternum immaculatum (Stephens, 1829)
   REFERENCES. Ryndevich [2017].
   MATERIAL EXAMINED. No specimens examined by authors.
   DISTRIBUTION. Bulgaria, Great Britain, Poland, Western and Eastern Siberia [Ryndevich, 2017; Przewoźny, 2019].
   REMARKS. See comment to previous species.

51. Pachy sternum haemorrhoum Motschulsky, 1866
   REFERENCES. Hebauer, Ryndevich [2005]; Efimov [2010].
   MATERIAL EXAMINED. Kemerovskiy Distri., Krekovo, 55°31’ N 85°52’ E, 29.V.2011, 1.VII.2012, DE (4 exs.); Krapivinskiy Distri., near “Azhendarovo”, 14.VII.2012, FB (1 ex.); Chebulinisky Distri., near Shetstakovo, 9.VI.2015, DE (3 exs.).
   DISTRIBUTION. Northern Asia, Kazakhstan, Mongolia, China, Korea, Japan [Fikáček et al., 2015; Przewoźny, 2019].

52. Sphaeridium bipustulatum Fabricius, 1781*
   MATERIAL EXAMINED. Yashkinskiy Distri., Pacha, Tom’ River flood-plane, 20.VII.2017, DE (3 exs.).
   DISTRIBUTION. Holarctic [Przewoźny, 2019]. New for Kemerovo Area.

53. Sphaeridium lunatum Fabricius, 1792
   REFERENCES. Efimov [2010].
   MATERIAL EXAMINED. Krapivinskiy Distri., near “Azhendarovo”, 10–30.VI.2008, 19–30.VI.2010, AK (2 exs.), V. Zinchenko det.; Kemerovskiy Distri., Krekovo, 55°31’ N 85°52’ E, 29.V.2011, 21.VI.2011, 01.VII.2012, DE (3 exs.); Yaskiyisky Distri., Beket, 56°22’ N 86°28’ E, 15.VI.2018, DE (2 exs.).
   DISTRIBUTION. Holarctic [Przewoźny, 2019].

54. Sphaeridium marginatum Fabricius, 1787
   REFERENCES. Ryndevich [2003a]; Efimov, Zinchenko [2015].
   MATERIAL EXAMINED. Yashkinskiy Distri., Pacha, Tom’ River flood-plane, 20.VII.2017, DE (1 ex.).
   DISTRIBUTION. Holarctic [Przewoźny, 2019].

55. Sphaeridium scarabaeoides (Linnaeus, 1758)
   REFERENCES. Efimov [2010].
   MATERIAL EXAMINED. Kuznetskiy Alatau, Tisul’sky Dist., Novy Berikul’, dung, 24.VII.1981, V.I. Eryshov leg. (1 ex.); Kemerovskiy Distri., near Podyakovo, 10.VII.1992, V. Ivanchikhin, Yu. Kabanenko (1 ex.), V. Zinchenko det.; Yashkinskiy Distri., Pacha, Tom’ River flood-plane, 20.VII.2017, DE (10 exs.).
   DISTRIBUTION. Polyzonal distribution [Przewoźny, 2019].

Results

Thus, 11 species of Helophoridae, 3 species of Hydrochidae and 41 species of Hydrophilidae were found on the territory of Kemerovo Area. In this checklist 31 species of Hydrophiloidea are recorded for the Kemerovo Area for the first time.

Helophorus discrepans and Cryptopleurum crenatum are recorded for the first time for the Asian part of Russia. Helophorus aspericollis and Enochrus melanocephalus are recorded for the first time for the Western Siberia.

Occurrence of species Cercyon ustulatus in Western Siberia is confirmed. Hydrophorus piceus, Hydrochera dichroma and Megasternum concinnum are excluded from the faunal checklist.

In the future research the faunal list of hydrophylid beetles in the region will certainly be updated and supplemented. There is a high probability of finding here representatives of the Georissidae family, two species of which are known from Western Siberia [Przewoźny, 2019], and also widespread Palearctic species Spercheus emarginatus (Schaller, 1783) of Spercheidae.

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