

Molluscan taxa of Alexander I. Kafanov

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An annotated listing of 68 taxa described by A.I. Kafanov (1947–2007) is given. It includes 11 names of family group, 10 – genus group, and 47 – species group.

Таксоны моллюсков, описанные А.И. Кафановым

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Приведен аннотированный список 68 таксонов моллюсков, описанных А.И. Кафановым (1947–2007), который включает 11 названий из группы семейства, 10 – из родовой группы и 47 – из видовой группы.

Alexander I. Kafanov (1947–2007) was famous Soviet/Russian malacologist and paleontologist worked in different time spans in the Zoological Institute, Russian Academy of Sciences (St.-Petersburg), Pacific Institute of Geography, Far East Branch of the Russian Academy of Sciences (a branch in Petropavlovsk-Kamchatsky) and most of his life in the Institute of Marine Biology, Far East Branch of the Russian Academy of Sciences

(Vladivostok). His taxonomic interests were connected mostly with the superfamily Cardioidea Lamarck, 1809 (see more details about his career: [Editorial Board, 2007] and this volume). Below are enumerated names of new taxa described or erected by him. For each taxon of species-level group, we provide type localities and institutional location of types; ages of geological formations are given as in original publications.

Abbreviations

CNIGRM – Central Scientific-Research Geological Exploration Museum named after Academician F.N. Chernychev, St.-Petersburg, Russia

GIN – Geological Institute, Russian Academy of Sciences, Moscow, Russia

IGUT – The Institute of Geoscience, University of Tsukuba, Ibaraki Prefecture, Japan

JUE – Joetsu University of Education, Joetsu, Niigata Prefecture, Japan

MIMB – Museum of A.V. Zhirmunsky Institute of Marine Biology, Far East Branch, Russian Academy of Sciences, Vladivostok, Russia

PIN – Paleontological Institute, Russian Academy of Sciences, Moscow, Russia (collection no. 3962 is deposited in the MIMB at present)

USNM – United States National Museum, Smithsonian Institution, Washington, D.C., USA

VNIGRI – All-Russian (formerly, All-Union) Petroleum Scientific-Research Geological-Exploration Institute, St.-Petersburg, Russia

ZIN – Zoological Institute, Russian Academy of Sciences, St.-Petersburg, Russia

Acanthocardiini Kafanov et Starobogatov [Cardiidae Lamarck, 1809; Fraginae Stewart, 1930]: Kafanov, Popov, 1977, p. 63. By name formation – *Acanthocardia* Gray, 1851.

adacnoides, *Profulvia* [Cardiidae Lamarck, 1809]: Kafanov, Savizky, 1982a, p. 39, fig. 1a–c [1a–b]. Upper stream of the right flow of the Verkhovka River (2 km from the mouth); top of the lower subsuite of the Arakayskaya Suite, Oligocene. Holotype – PIN no. 1/3962.

addicotti, *Mytilus* (*Tumidimytilus*) [Mytilidae Rafinesque, 1815]: Kafanov, 1986, p. 108. Holotype figured – Allison, Addicott, 1976, pl. 3, fig. 9. Kern River, California, USA; «Pyramid Hill sand member of the Jewett sand», lower Miocene. Holotype – USNM no. 647077.

allisoni, *Plicatomytilus* [Mytilidae Rafinesque, 1815]: Kafanov, 1986, p. 108. Holotype figured – Allison, Addicott,

1976, pl. 2, figs. 2, 5. North of the Kavran River, western Kamchatka; Kakertskaya Suite, middle Miocene. Holotype – USNM no. 647084.

carlsbergianum, *Ciliatocardium* [Cardiidae Lamarck, 1809]: Kafanov, 2002, p. 3, pl. 1, fig. 10. Krinka River, Makarov District, Sakhalin; member III of the Maruyamskaya Suite, Miocene. Holotype – VNIGRI no. 152/825.

Ciliatocardium [Cardiidae Lamarck, 1809]: Kafanov, 1974, p. 1469. Type-species – *Cardium ciliatum* Fabricius, 1780.

clarki, *Mactromeris* [Mactridae Lamarck, 1809]: Kafanov, 2006, p. 26. As nom. nov. pro *Mactra* (*Mactrotoma*) *californica equilateralis* Clark, 1932 non *Spisula aequilateralis* Waring, 1917.

Clinocardiinae [Cardiidae Lamarck, 1809]: Kafanov, 1975, p. 146. By name formation – *Clinocardium* Keen, 1936.

Clinocardiini [Cardiidae Lamarck, 1809; Clinocardiinae Kafanov, 1975]: Kafanov, 1975, p. 147. By name formation – *Clinocardium* Keen, 1936.

coani, *Macoma* (*Macoma*) [Tellinidae Blainville, 1814]: Kafanov, Lutaenko, 1999, p. 99, pl. 35, figs. 1–8; pl. 36, figs. 1–5, text-fig. Boysmana Bay, Peter the Great Bay, northwestern part of the Sea of Japan Sea. Holotype – MIMB no. 2398.

Crenomytilini [Mytilidae Rafinesque, 1815; Mytilinae Rafinesque, 1815]: Kafanov, 1984, p. 45. By name formation – *Crenomytilus* Soot–Ryen, 1955.

Decussicardium [Cardiidae Lamarck, 1809]: Kafanov, 2000, p. 118. As subgenus in *Keenocardium* Kafanov, 1974. Type-species – *Clinocardium subdecussatum* Shoto, 1960.

- devjatilovae**, *Leionucula* [Nuculidae Gray, 1824]: Kafanov, Ogasawara, Marinovich, 2001, p. 66. As nom. nov. pro *Nucula (Leionucula) parvula* Devjatilova in Devjatilova et Volobueva, 1981 non *Nucula parvula* Gould, 1861.
- Dinocardiini** Kafanov [Cardiidae Lamarck, 1809; Cardiinae Lamarck, 1809]: Kafanov, Popov, 1977, p. 62. By name formation – *Dinocardium* Dall, 1900.
- Divarimytilus** [Mytilidae Rafinesque, 1815]: Kafanov, 1984, p. 44. Type-species – *Mytilus condoni* Dall, 1890.
- evsseevi**, *Ciliatocardium* [Cardiidae Lamarck, 1809]: Kafanov, Savitzky, 1982b, p. 54, pl. 5, figs. 6–9. 1.5 km upstream from the mouth of Chernigovka River, Makarov District, Sakhalin; lower subsuite of Gastelovskaya Suite, upper Oligocene. Holotype – PIN no. 24/3962.
- gagarae**, *Lyonsia* [Lyonsiidae Fischer, 1887]: Scarlato, Kafanov, 1988, p. 939. As nom. nov. pro *Lyonsia inflata* Scarlato, 1981 non Conrad, 1837.
- gladenkovi** Kafanov, *Clinocardium* [Cardiidae Lamarck, 1809]: Arkhipova et al., 1994, p. 201, pl. 33, figs. 1, 2. Krinka River, Makarov key section, Makarov District, Sakhalin; lower member of Maruyamskaya Suite, upper Miocene. Holotype – VNIGRI no. 141/825.
- golikovi**, *Macoma (Macoma)* [Tellinidae Blainville, 1814]: Scarlato, Kafanov, 1988, p. 939. As nom. nov. pro *Macoma orbiculata* Scarlato, 1981 non Kanno, 1958.
- gorbunovi**, *Yoldiella* [Ledellidae Allen et Sanders, 1982]: Scarlato, Kafanov, 1988, p. 938. This name proposed as nom. nov. pro *Yoldiella derjugini* Bartsch in Scarlato, 1981 non *Tindaria derjugini* Gorbunov, 1946 is invalid because it was based on erroneous identification of *Yoldiella derjugini* Bartsch in Scarlato, 1981 and *Tindaria derjugini* Gorbunov, 1946 (see: [Kafanov, 1991, p. 16]).
- Hyrcaaniini** Kafanov et Starobogatov [Cardiidae Lamarck, 1809; Lymnocardiinae Stoliczka, 1870]: Kafanov, Popov, 1977, p. 63. By name formation – *Hyrcaania* Kolesnikov, 1950. Lymnocardiinae is regarded now as separate family Lymnocardiidae in the superfamily Cardioidea Lamarck, 1809 (see: [Kafanov, 1998a]).
- joetsuensis**, *Serripes* [Cardiidae Lamarck, 1809]: Kafanov, 2003, p. 9, pl. 6, figs. 1–3. Small outcrop along the Koide River in Shibata City, Niigata Prefecture, Honshu, Japan; middle Pliocene Kuwae Formation. Holotype – JUE, without reg. no.
- kakertense** Kafanov, *?Vasticardium* [Cardiidae Lamarck, 1809]: Gladenkov, Sinelnikova, 1990, p. 74, pl. 16, fig. 12. Kavrano-Utkholokskaya Bight, western Kamchatka; Kakertskaya Suite, middle Miocene. Holotype – PIN no. 239/4109.
- kamyshtubrunensis**, *Didacna (Pontalmyra)* [Lymnocardiidae Stoliczka, 1870]: Kafanov, 1980, p. 623. As nom. nov. pro *Cardium paucicostatum* Deshayes, 1838 non Sowerby, 1834.
- kazutakaamanoi**, *Clinocardium* [Cardiidae Lamarck, 1809]: Kafanov, 1998b, p. 37, pl. 4, fig. 10. River floor of the Rumoi River, about 50 m south of the Togeshita railway station, Rumoi City, Rumoi District, Hokkaido, Japan; lower part of Togeshita Formation, early middle Miocene. Holotype – IGUT no. 15297-1.

- Keenocardium** [Cardiidae Lamarck, 1809]: Kafanov, 1974, p. 1468. Type-species – *Cardium californiense* Deshayes, 1839. Proposed as subgenus in *Clinocardium*, Keen, 1936; now considered as separate genus [Kafanov, 1998a].
- khomenkoi** Kafanov et Ogasawara, *Nemocardium* (*Nemocardium*) [Cardiidae Lamarck, 1809]: Kafanov, Ogasawara, Amano, 1999, p. 7, text-fig. 5. North of the mouth of Vengeri River, Schmidt Peninsula, Okha District, Sakhalin; Vengeriyskaya Suite [upper Miocene]. Holotype – CNIGRM no. 109/5043.
- korobkovi**, *Macoma* (*Psammacoma*) [Tellinidae Blainville, 1814]: Kafanov, Ogasawara, Marincovich, 2001, p. 47. As nom. nov. pro *Macoma* (*Psammacoma*) *elongata* A. Korobkov in Arkhipova et al., 1994 non *Tellina elongata* Hanley, 1844 nec *Macoma elongata* Barinov in Barinov et al., 1992.
- kuluvense** Kafanov, *Keenocardium* [Cardiidae Lamarck, 1809]: Gladenkov et al., 1984, p. 211, pl. 49, fig. 6. northeastern branch of the Tochilin key section, western Kamchatka; Kuluvenskaya Suite [lower Miocene]. Holotype – PIN no. 1027/3675.
- lautenschlaegeri**, *Keenocardium* (*Keenocardium*) [Cardiidae Lamarck, 1809]: Kafanov, 2000, p. 112, pl. 1, fig. 15. Sea coast, between Noyami and Malyi Sertunay River, Aleksandrovska-Sakhalinsky District, Sakhalin; Sertunayskaya Suite, middle Miocene. Holotype – CNIGRM no. 156/6199.
- likharevi** Kafanov, *Ciliatocardium* [Cardiidae Lamarck, 1809]: Scarlato, 1981, p. 344, photo 321. Sea of Japan, Tatarsky Strait, Sakhalin, near Rakuma (now Antonovo) Village, depth 45–40 m, sand, leg. E. Gurjanova, August 26, 1946. Holotype – ZIN no. 13481.
- Lohripecten** [Pectinidae Rafinesque, 1815]: Kafanov, 1991, p. 39. As subgenus in *Patinopecten* Dall, 1898. Type-species – *Pecten* (*Patinopecten*) *lohri* Hertlein, 1928. Synonym of *Philippia* (*Blanckenhornia*) Teppner, 1922 [Kafanov, Lutaenko, 1994].
- maruyamense**, *Ciliatocardium ciliatum* [Cardiidae Lamarck, 1809]: Kafanov, Savizky, 1982b, p. 56, pl. 5, figs. 4, 5. Malyi Takoy River, Dolinsk District, Sakhalin; lower subsuite of Maruyamskaya Suite, upper Miocene. Holotype – PIN no. 28/3962.
- matschiense** Lautenschläger in Kafanov [Cardiidae Lamarck, 1809]: Gladenkov et al., 1984, p. 211, pl. 49, figs. 2a, b [a, b], 8 a, b [a, b]. South of the Shirokaya River mouth, western Sakhalin; Sertunayskaya Suite, Miocene. [Holotype – CNIGRM no. 165/6199; Kafanov, 2000].
- menneri** Kafanov, *Keenocardium* [Cardiidae Lamarck, 1809]: Gladenkov et al., 1984, p. 211, pl. 49, figs. 1, 5, 11. Northeastern branch, Tochilinsky key section, western Kamchatka; the base of Kuluvenskaya Suite [lower Miocene]. Holotype – PIN no. 1027/3675.
- middendorffi**, *Keenocardium californiense* [Cardiidae Lamarck, 1809]: Kafanov, 1999, p. 84, pl. 3, figs. 4–7. Tugur Gulf, Sea of Okhotsk, leg. A. Middendorff, 1844. Holotype – ZIN no. 1/12359.
- ciliaris milaschewitschi**, *Acanthocardia* (*Sphaerocardium*) [Cardiidae Lamarck, 1809]: Kafanov, 1980, p. 625. As nom. nov. pro *Cardium paucicostatum* var. *impedita* Milaschewitsch, 1909 non *Cardium impeditum*

- Deshayes, 1860. Name *Cardium ciliare* Linnaeus, 1758 has priority over *Cardium paucicostatum* Sowerby, 1834 non Deshayes, 1838.
- moorae**, *Ciliatocardium* [Cardiidae Lamarck, 1809]: Kafanov, 2002, p. 8, pl. 3, figs. 5, 6. Sea coast, between Noyami and Malyi Sertunay Rivers, Aleksandrovsk-Sakhalinsky District, Sakhalin; Aleksandrovskaya and/or Sertunayskaya Suite. Holotype – CNIGRM no. 138/5294.
- Nampiella** [Yoldiidae Habe, 1977]: Kafanov, Savizky, 1995, p. 82. As subgenus in *Yoldia* Möller, 1842. Type-species – *Yoldia takaradaensis* L. Krishtofovich, 1957.
- nemocardiforme**, *Laevicardium* [Cardiidae Lamarck, 1809]: Kafanov, Savizky, 1983, p. 119, text-fig. 1 [H–P]. East-Sakhalin Mountains, northern inflow of Pil'nga River, Nogliki District, Sakhalin; Borskaya Suite, middle [lower] Miocene. Holotype – PIN no. 42/3962.
- nodai**, *Serripes* [Cardiidae Lamarck, 1809]: Kafanov, 1980b, p. 319. As nom. nov. pro *Cardium pauperculum* Yokoyama, 1923 non Meek, 1871.
- nordenskioidi**, *Ciliatocardium ciliatum* [Cardiidae Lamarck, 1809]: Kafanov, 1981, p. 52, fig. 2 [Д, Ж–И]. Laptev Sea, Komsomol'skoy Pravdy Islands, between Andreyka and Samuila Islands, depth 37 m, mud, R/V *Vaygach*, August 13(26), 1913. Holotype – ZIN no. 200156.
- ochotense**, *Ciliatocardium ciliatum* [Cardiidae Lamarck, 1809]: Kafanov, 1981, p. 54, fig. 3. Northern coast of Okhotsk Sea, west of Tauyskaya Bigth, depth 121 m, mud, R/V *Okhotsk*, September 4, 1912. Holotype – ZIN no. 200366.
- ogasawarai**, *Keenocardium* (*Keenocardium*) [Cardiidae Lamarck, 1809]: Kafanov, 2000, p. 114, pl. 1, fig. 10. Ugol'naya River, Korfa Bay, eastern Kamchatka; Pakhachinskaya Suite, bed 3, lower Oligocene. Holotype – GIN coll. 3669, no. 7/6.
- oyamai**, *Cyclocardia* [Carditidae Fleming, 1820]: Kafanov, Ogasawara, Amano, 1999, p. 1. As nom. nov. pro *Cyclocardia yokoyamai* (Oyama et Mizuno, 1958) non *Cyclocardia yokoyamai* [Slodkewitsch, 1936]. Synonym of *Cyclocardia poronaiensis* Honda, 1989 [Kafanov, 2004].
- Pacifimytilus** [Mytilidae Rafinesque, 1815]: Kafanov, 1984, p. 44. Type-species – *Mytilus californianus* Conrad, 1837.
- Parvicardiini** Kafanov et Starobogatov [Cardiidae Lamarck, 1809; Fraginae Stewart, 1930]: Kafanov, Popov, 1977, p. 63. By name formation – *Parvicardium* Monterosato, 1884.
- Praesachalinella** [Yoldiidae Habe, 1977]: Kafanov, Savizky, 1995, p. 83. As subgenus in *Yoldia* Möller, 1842. Type-species – *Yoldia* (*Yoldia*) *biremis* Uozumi, 1957.
- Profulvia** [Cardiidae Lamarck, 1809]: Kafanov, 1976, p. 111. Type-species – *Papyridea harrimani* Dall, 1904. It is considered at present as subgenus in *Papyridea* Swainson, 1840 [Kafanov, 1997].
- Profulviini** Kafanov [Cardiidae Lamarck, 1809; Clinocardiinae Kafanov, 1975]: Kafanov, Popov, 1977, p. 62. By name formation – *Profulvia* Kafanov, 1976. It is considered at present as tribus in Cardiinae Lamarck, 1809 [Kafanov, 1997].

- prosogyrata** Kafanov, *Profulvia* [Cardiidae Lamarck, 1809]: Arkhipova et al., 1994, p. 206, pl. 34, fig. 7. Makarova River, Makarov District, Sakhalin; upper subsuite of Gastellovskaya Suite, Oligocene. Holotype – VNIGRI no. 166/825. It is considered at present as *Keenocardium prosogyratum* (Kafanov in Arkhipova et al., 1994) [Kafanov, 2000].
- raricostatum** Kafanov, *Keenocardium* [Cardiidae Lamarck, 1809]: Arkhipova et al., 1994, p. 202, pl. 33, figs. 3, 4. Gornaya River, Makarov District, Sakhalin; lower subsuite of Gastellovskaya Suite, Oligocene. Holotype – VNIGRI no. 151/825.
- savizkyi**, *Serripes* [Cardiidae Lamarck, 1809]: Kafanov, 2003, p. 11, pl. 8, fig. 7, pl. 9, figs. 1–3. Sea cliff, near the mouth of Geran' River, Poronaysk District, Sakhalin; Uranayskaya Suite, middle Miocene. Holotype – PIN no. 22/3962.
- scarlatoi**, *Macoma (Macoma)* [Tellinidae Blainville, 1814]: Kafanov, Lutaenko, 1997, p. 51. As nom. nov. pro *Macoma orientalis* Scarlato in Golikov et Scarlato, 1967 non *Macoma (Cymatoica) orientalis* (Dall, 1890).
- Septocardiidae** Kafanov et Starobogatov [Tridacnoidea Lamarck, 1819]: Kafanov, Popov, 1977, p. 61. By name formation – *Septocardia* Hall et Whitfield, 1877.
- Serripedini** [Cardiidae Lamarck, 1809; Clinocardiinae Kafanov, 1975]: Kafanov, 1975, p. 147. By name formation – *Serripes* Gould, 1841.
- similis** Kafanov, *Serripes* [Cardiidae Lamarck, 1809]: Arkhipova et al., 1994, p. 208, pl. 34, figs. 12, 13. Gornaya River, between the mouths of Chernigovka and Shakhtnaya rivers, Makarov District, Sakhalin; Ausinskaya Suite, Miocene. Holotype – VNIGRI no. 174/825.
- sinelnikovae**, *Nuculana (Saccella)* [Nuculanidae H. et A. Adams, 1858]: Kafanov, Ogasawara, Marinovich, 2001, p. 68. As nom. nov. pro *Nuculana (Saccella) kavranensis* Sinelnikova, 1984 non *Nuculana (?Nuculana) kavranensis* Slodkewitsch, 1938.
- slodkewitschi** Kafanov et Ogasawara, *Leporimetis* [Tellinidae Blainville, 1814]: Kafanov, Ogasawara, Amano, 1999, p. 13. As nom. nov. pro *Apolymetis excavata* sensu Slodkewitsch, 1936 non *Tellina excavata* Sowerby, 1867.
- smekhovi**, *Ciliatocardium* [Cardiidae Lamarck, 1809]: Kafanov, Savizky, 1982b, p. 58, pl. 5, figs. 12, 13. Chekhovka River, Kholmsk District, Sakhalin; upper part of Arakayskaya Suite, lower Miocene. Holotype – PIN no. 29/3962.
- starobogatovi**, *Keenocardium* [Cardiidae Lamarck, 1809]: Kafanov, Savizky, 1982a, p. 40, fig. 1k. Stukolka River, Ulegorsk District, Sakhalin; lower subsuite of Arakayskaya Suite, Oligocene. Holotype – PIN no. 4/3962.
- subfragilis**, *Periploma* [Periplomatidae Dall, 1895]: Scarlato, Kafanov, 1988, p. 938. Holotype figured: Scarlato, 1981, photo 199 (as *Periploma wardiana* A. Adams). Aniwa Bay, southern Sakhalin, depth 80 m, mud, leg. Yu. Galkin, R/V *Toporok*, September 14, 1948. Holotype – ZIN no. 10563.
- takoyensis**, *Yagudinella* [Cardiidae Lamarck, 1809]: Kafanov, Savizky, 1982a, p. 41, fig. 1. Malyi Takoy River,

Dolinsk District, Sakhalin; lower subsuite of Maruyamskaya Suite (stratotype section), upper Miocene. Holotype – PIN no. 10/3962.

tatarica ex Lautenschläger, MS, *Papyri-dea* (*Profulvia*) [Cardiidae Lamarck, 1809]: Kafanov, 1997, p. 6, pl. 8, fig. 3. Off the Chasha River mouth, Aleksandrovsk-Sakhalinsky District, Sakhalin; lower part of Verkhneduyskaya Suite, lower middle Miocene. Holotype – CNIGRM no. 170/6199.

tchuktchense Kafanov, *Ciliatocardium ciliatum* [Cardiidae Lamarck, 1809]: Scarlato, 1981, p. 343, photo 310, 311. Bering Sea, Provideniya Bight, depth 11–22 m, mud, leg. E. Arngold, 1912, R/V *Vaigach*. Holotype – ZIN no. 12945.

Tumidimytilus [Mytilidae Rafinesque, 1815]: Kafanov, 1984, p. 44. As subgenus in *Mytilus* Linnaeus, 1758.

Type-species – *Mytilus tichanovitchi* Makiyama, 1934.

Vepricardiini Kafanov et Starobogatov [Cardiidae Lamarck, 1809; Cardiinae Lamarck, 1809]: Kafanov, Popov, 1977, p. 62. By name formation – *Vepricardium* Iredale, 1929.

Yagudinella [Cardiidae Lamarck, 1809]: Kafanov, 1975, p. 147. Type-species – *Cardium* (*Serripes*) *notabile* Sowerby, 1915.

zhidkovae Kafanov, *Ciliatocardium* [Cardiidae Lamarck, 1809]: Arkhipova et al., 1994, p. 204, pl. 33, figs. 15, 16. Gornaya River, Makarov District, Sakhalin; upper subsuite of Gastellovskaya Suite, Oligocene. Holotype – VNIGRI no. 161/825.

zhidkovae, *Corbicula* [Corbiculidae Gray, 1847]: Kafanov, 1997, p. 59. As nom. nov. pro *Corbicula convexa* Zhidkova in Arkhipova et al., 1994 non Deshayes, 1855.

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