

Catalogue of the Collection of Bivalve Mollusks in the Zoological Museum, Far East State University, Vladivostok

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= 국문요약 =

극동대학 (블라디보스톡) 동물박물관 소장 이매패류 목록

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러시아 블라디보스톡에 위치한 극동대학 동물박물관 소장 이매패류의 목록과 주석을 기재하였다. 총 71과 520종을 기재하였는데 그 중 種의 수가 많은 과는 Arcidae, Cardiidae, Tellinidae, Unionidae, Mytilidae, Veneridae, Ostreidae, Pectinidae, and Astartidae 등이다.

각 종은 lot와 표본 숫자와 함께 채집지를 기재하였으며, 모식종(type specimen)은 사진과 기재 일자 및 박물관 소장번호를 기재하였다.

INTRODUCTION

The Zoological Museum of the Far East State University (FESU) was established in 1957-1958 as a part of the Department of Zoology, Faculty of Biology and Pedology. In 1982, the Museum became a separate branch of the Faculty. The Zoological Museum is the largest museum of natural history in the territory of the Russian Far East and the only museum of such specialization in this region (Darkina *et al.*, 1993).

Molluscan collections in the Zoological Museum are based chiefly upon Russian Far East fauna and were organized contemporaneously with the establishment of the museum. Bivalve

mollusks represent a large portion of invertebrate animals in the museum (about 20-30% of all invertebrate species). This collection is very important among Russian collections of marine and fresh-water mollusks, especially when compared to the collections of the Zoological Institute, Russian Academy of Sciences (St. Petersburg) and Zoological Museum, Moscow State University (Moscow). The Museum exhibits a great number of attractive and interesting bivalves from the Russian Far East and tropical seas (Fig. 1), which have not only scientific but also educational value.

This catalogue was prepared to document lists of recognized collections and their type specimens for the scientific community.

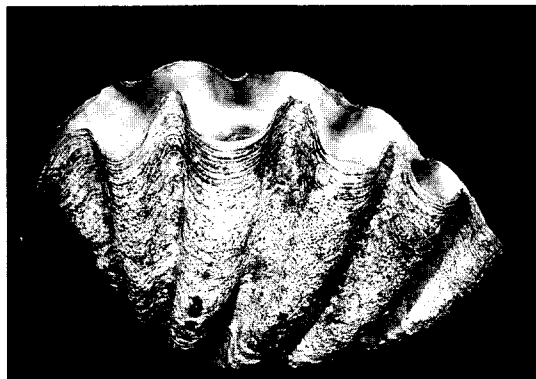


Fig. 1. The specimen of giant *Tridacna* (*Tridacna gigas* (L.)) in the exhibition of the Zoological Museum, Far East State University. This shell is among largest specimens of the Russian museums.

The History of the Collection. Donations and Exchanges

The history of the collection is briefly described by Lutaenko *et al.* (1992), Darkina *et al.* (1993) and Lutaenko and Darkina (1994). Here we add some updated and expanded information.

Although the first molluscan samples appeared in the Museum after its establishment, the bivalve collection did not have a scientific character and existed mainly for exhibition purposes until the 1990's. In the early 1980's, Dr. George A. Evseev, Institute of Marine Biology, Far East Branch of Russian Academy of Sciences (IMB) began to catalog the collection and identified, for the first time, a majority of species from tropical and subtropical regions of the Pacific Ocean. He also added to the collection with samples from the South China Sea (Vietnam), Singapore and Russian Far Eastern seas. During the same period, the collection continued to grow due to activity of students of the FESU and Museum staff who intensively worked during summer field seasons on the coast of Peter the Great Bay (north-western part of the Sea of

Japan). Also, many small, but valuable collections were donated to the Museum by the staff of the Pacific Research Institute of Fisheries and Oceanography (PRIFO, Vladivostok), IMB, and other local institutions. These collections originated from Vietnam, Australia, Papua New Guinea, New Zealand, Seychelles, Madagascar, and from a number of other regions of the Pacific and Indian Oceans (collectors are: V.B. Darkin, M.V. Pogiba, S.A. Rostomov, V. sh. Kazykhanov, V.G. Svirsky, V.P. Bobykina, G.M. Tomilov, A.S. Rudenko, A. Govorukha, I.A. Piskunov, V.I. Fadeev, V.I. Ivin, Z.B. Smetanina). A significant collection with precise data, from the Siam (Thailand) Gulf (South China Sea) was presented by M.V. Pogiba (PRIFO). An interesting collection of Cardiidae and Ostreidae from France was donated by V.A. Rakov (Department of Aquatic Ecology and Aquaculture, FESU). Small collections of bivalves from the USA coast (including Pleistocene shells from Florida) were received from V.B. Darkin and A.E. Oleinik (Purdue University, West Lafayette, Indiana).

The collection includes only incidental samples from the Atlantic Ocean, and the Baltic, Black, Azov and Mediterranean seas.

Since 1990 the Museum has received many important collections through exchanges with Russian and foreign institutes and museums. The most valuable contributions are as follows:

Taxon	Institute/Museum, (specialist)
Arcidae, Mytilidae	Natal Museum, South Africa (Dr. R.N. Kilburn)
Anadarinae (Arcidae)	Ferrara University, Ferrara, Italy (Dr. D. Campioni)
mainly Arcidae	Zoological Institute, Russian Academy of Sciences, St.-Petersburg, Russia (Dr. B.I. Sirenko)

Freshwater bivalves	University of Osaka, Osaka, Japan (Dr. T. Kondo)
Astartidae, Tellinidae, Cardiidae, Bernardinidae, Cardiliidae	Santa Barbara Museum of Natural History, Santa Barbara, and Natural History Museum of Los Angeles County, Los Angeles, USA (through the courtesy of Dr. A.I. Kafanov)

Bivalves from Russian Far East seas have been identified by G.A. Evseev (IMB), A.I. Kafanov (IMB), M.B. Ivanova (IMB) and K.A. Lutaenko (IMB; Lutaenko was Curator of Mollusks in the Museum during 1991-1993). Fresh- and brackish-water mollusks have been studied and identified by A.V. Martynov (IMB) and A.V. Chernyshev (FESU). Many tropical-subtropical species were identified by G.A. Evseev.

A Brief Description of the Collection

This catalogue contains 520 species and subspecies of marine, fresh- and brackish-water bivalve mollusks originating mainly from Russian Far East seas and territories. These species include 71 families and represent 1772 catalogued lots and 5147 specimens.

A majority of species (332) belong to the nine large families (Table 1). The largest family represented is Arcidae (67 species) with a predominance of species from the genus *Anadara* s. l. (32 species, including some unidentified under the heading "*Anadara* sp."). Many arcids originate from the Pacific and Indian Oceans (especially, South China Sea, Sea of Japan, South Africa, Australia and neighbouring areas, etc.), and a small part is from Pliocene and Holocene deposits. The family includes one newly described species (*Anadara kafanovi* Lutaenko, 1993) with type material (see Appendix

Table 1. Large families of bivalve mollusks in the collection of the Zoological Museum, Far East State University

Family	No. of species	No. of lots	No. of specimens
Arcidae	67	251	597
Tellinidae	55	206	646
Veneridae	42	202	424
Cardiidae	41	93	330
Unionidae	41	88	400
Mytilidae	33	130	321
Pectinidae	21	99	232
Ostreidae	18	60	123

1). Another large family is Tellinidae (55 species) with genus *Macoma* comprising 38 species. The collection of this interesting genus is most significant in Russia and contains species mainly from USA and Canada (Pacific coast) and Russian Far East seas. The family Cardiidae is represented by 41 species collected chiefly in the USA, Mexico, France and Russian Far East regions.

Among fresh-water and related bivalves, representatives of the Unionidae are richest in species number (41). In total, fresh-water mollusks (including Corbiculidae) contain 58 species and subspecies. It should be noted that the system of fresh-water mollusks accepted by Russian malacologists is quite different when compared to systematics of those mollusks in Japan, Korea and other countries (Zatravkin and Bogatov, 1987). Foreign malacologists do not consider and do not accept many genus-group and species names which are widely used in Russian literature. For instance, genus *Dahurinaia* is considered a junior synonym for *Margaritifera*; genera *Nodularia*, *Crassiana* and *Middendorffinaia* are treated as junior synonyms of *Unio*; *Anemina*, *Sinanodonta* and *Colleopterum* are obviously synonyms for *Anodonta* (A.V. Chernyshev,

personal communication). Type material of fresh-water mollusks is represented by *Anemina shadini deflexa* Martynov et Tchernyshev, 1992, *Anemina zatrawkini* Martynov et Tshernyshev, 1992, and *Nodularia extremalis* Martynov et Tshernyshev, 1992. Some marine species from this catalogue are evidently synonyms of other species or have been subjects of nomenclatural changes. We use species names originally written on catalogue cards to avoid confusion.

The Museum uses a system of catalogue cards on which the following information is placed: family name, full species name (including author and year of publication), museum number, number of specimens (complete shells or single valves), collection date, geographical occurrence (including depth and bottom type), name of collector(s), type of preservation (dry or in alcohol), and who made the identification. There is no computer database in the Museum at present.

FORMAT

In this catalogue, families are arranged according to the system used in the "Treatise on Invertebrate Paleontology" (Moore, 1969-1971), with some modifications. The genera and species within families are listed alphabetically. For each species and subspecies, the number of catalogued lots, specimens, and geographical occurrences are given. The geographical occurrences are not full label data, but they present valuable information for faunal and biogeographical studies. Species/subspecies names are followed by author and date. Subgeneric names are not used in the catalogue. Specimens identified to genus level, are listed as one species, although such "species" sometimes contain several species. All data are current to January 1, 1996.

A full set of data is presented for type specimens (including museum numbers). We consider only holotypes and related paratypes, but the collection contains some of the paratypes of species described

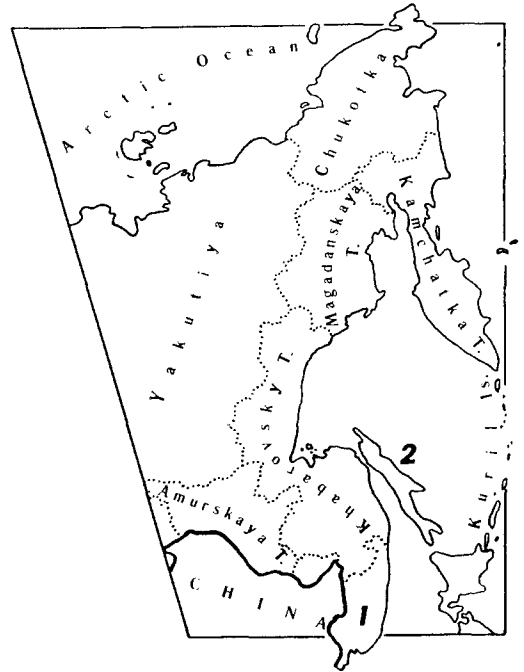


Fig. 2. Map of the Russian Far East with large administrative units.
1 - Primorye Territory, 2 - Sakhalin Territory.
T.=Territory.

by O.A. Scarlato, M.B. Ivanova, and probably other Russian malacologists. Because the International Code of Zoological Nomenclature (ICZN, 1985) does not precisely define type series, and all specimens studied by the author before date of publication can be regarded as paratypes (except for clearly marked holotype), we suggest that a great deal of work be done to find all paratypes.

For terrestrial areas, names of administrative units within Russia are given in free transliteration because there are no officially accepted English names. The largest units in the Russian Federation, "kray" and "oblast", can be compared with provinces of other countries and were translated as "territory". Within a territory there are "rayons" which we call "districts". It should also be noted that accepted English names for small rivers, lakes, villages, etc. do not exist. For clarity we include a map of the

largest units of the Russian Far East from which most fresh-water species originate. (Table 2).

SUMMARY

A complete and annotated listing of the bivalve mollusks' species in the collection of the Zoological Museum, Far East State University (Vladivostok, Russia) is given. This collection is among the largest molluscan collections of the Russian universities. A total of 520 species and subspecies (including those identified to genus level which were considered as "one" species) from 71 families (1772 lots, 5147 specimens) are listed. The largest families are Arcidae, Cardiidae, Tellinidae, Unionidae, Mytilidae, Veneridae, Ostreidae, Pectinidae, and Astartidae (based on number of species). For each species, the number of lots, specimens, and geographical occurrences are noted. For type specimens, the photographs, label data, and museum numbers are presented.

ABBREVIATIONS

Isls. - Islands

Isl. - Island

Pref. - Prefecture

s. l. - *sensu lato*, in the broad sense

cf. - confer, compare to

ACKNOWLEDGEMENTS

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PHYLUM MOLLUSCA

CLASS BIVALVIA

Subclass CRYPTODONTA

Order Solemyoidea

Family Solemyidae

Acharax johnsoni (Dall, 1891)

2 lots (5 specimens).

Bering Sea (Olutorsky Cape); Pacific Ocean
(38° 56' N, 142° 59' E).

Subclass PALAEOTAXODONTA

Order Nuculoidea

Family Nuculidae

Nuculidae unidentified

2 lots (2 specimens).

No data.

Acila beringiana Slodkewitsch, 1967

1 lot (2 specimens).

Okhotsk Sea, 52° 34,8' N, 154° 59,5' E.

Acila divaricata (Hinds, 1843)

3 lots (4 specimens).

Japan (northward of Tokyo Bay), Sea of Japan
(Moneron Isl.).

Acila insignis (Gould, 1861)

9 lots (62 specimens).

Sea of Japan (Possjet Bay; Peter the Great Bay;
Ussuri Bay; Vostok Bay).

Leionucula ovatotruncata (Scarlato in Volova et
Scarlato, 1980)

Sea of Japan (Peter the Great Bay).

Leionucula tenuis (Montagu, 1808) s. l.

2 lots (10 specimens).

Sea of Japan (50° 07'N, 143° 38,3'W); Bering
Sea (61° 00'N, 172° 17'W).

Family Nuculanidae

Megayoldia lischkei (Smith, 1885)

1 lot (11 specimens).

Pacific Ocean (38° 56'N, 142° 50'E).

Megayoldia thraciaeformis (Storer, 1838)

2 lots (6 specimens).

Okhotsk Sea (Sakhalin).

Nuculana pernula (Muller, 1779)

2 lots (40 specimens).

Okhotsk Sea (southern Sakhalin).

Yoldia amygdalea (Valenciennes, 1846)

1 lot (1 specimen).

Okhotsk Sea.

Yoldia bartschi Scarlato, 1981

1 lot (1 specimen).

No data.

Yoldia keppeliana Sowerby, 1904

1 lot (1 specimen).

Okhotsk Sea (southern Sakhalin).

Yoldia seminuda Dall, 1871

1 lot (1 specimen).

Bering Sea (Bogoslov Isl.).

Yoldia toporoki Scarlato, 1981

1 lot (4 specimens).

Sea of Japan (Peter the Great Bay).

Subclass PTERIOMORPHIA

Order Arcoidea

Family Arcidae

Acar petasion (Kilburn, 1983)

1 lot (2 specimens).

South Africa (31° 25,6'S, 29° 56,0'E).

Acar plicata (Dillwyn, 1817)

1 lot (2 specimens).

South Africa (Zululand).

Anadara africana (Sowerby, 1904)

1 lot (1 specimen).

South Africa (Zululand).

Anadara antiquata (L., 1758)

11 lots (13 specimens).

Madagascar, Australia, Fiji Islands, Papua New
Guinea (New Britain Isl.), South China Sea
(Vietnam; Hainan Isl.).

Anadara brasiliiana (Lamareck)

1 lot (1 specimen).

No data.

Anadara broughtoni (Schrenck, 1867)

25 lots (53 specimens).

Sea of Japan (Possjet Bay; Peter the Great Bay;
Ussuri Bay; Amur Bay), Japan (Ariake Sea),

Southern Primorye (Holocene deposits).

Anadara chemnitzii (Philippi)

1 lot (1 specimen).

Cuba.

Anadara clathrata (Reeve, 1844)

4 lots (6 specimens).

Timor Sea, Papua New Guinea (New Britain Isl.), South China Sea (Hainan Isl.; Tonkin (Beibu) Gulf).

Anadara consociata (Smith, 1885)

5 lots (13 specimens).

South China Sea (0° 12'N, 46° 9'E; Binh Cang Bay; Vung Ro Bay; Tonkin (Beibu) Gulf).

Anadara corbuloides (Monterosato, 1884)

1 lot (1 specimen).

Italy (Viareggio).

Anadara cornea (Reeve, 1844)

1 lot (1 specimen).

South China Sea (Vietnam).

Anadara crebricostata (Reeve, 1844)

2 lots (2 specimens).

South China Sea (Tonkin (Beibu) Gulf; Hainan Isl.).

Anadara dautzenbergi (Lamy, 1907)

3 lots (15 specimens).

South China Sea (Benghoi Bay; Van Phong Bay).

Anadara diluvii (Lamarck, 1805)

1 lot (8 specimens).

Italy (Liguria, Pliocene).

Anadara ferruginea (Reeve, 1844)

6 lots (17 specimens).

South Australia, Coral Sea (Louisiade Archipelago), South China Sea (0° 12'N, 106° 46'E; 09° 56'N, 103° 08'E; Siam Gulf).

Anadara granosa (L., 1758)

5 lots (14 specimens).

Singapore, South China Sea (Vietnam; Hainan Isl.), Yellow Sea (Qingdao City).

Anadara guangdongensis (Bernard, Cai et Morton, 1993)

1 lot (1 specimen).

South China Sea (Tonkin (Beibu) Gulf).

Anadara gubernaculum (Reeve, 1844)

4 lots (7 specimens).

Australia, South China Sea (Tonkin (Beibu) Gulf; Vietnam; Hong Kong).

Anadara inaequalvis (Bruguiere, 1789)

26 lots (148 specimens).

Adriatic Sea (Ferrara City); Black Sea (44° 39,62'N, 29° 02,95'E); South China Sea; Yellow Sea (Qingdao City); Japan (Nagasaki); Sea of Japan (Ussuri Bay; Amur Bay); southern Primorye (Holocene deposits).

Anadara kafanovi Lutaenko, 1993

2 lots (2 specimens).

South China Sea (northern Vietnam; Bien Shon Isl.).

Anadara labiosa (Sowerby, 1833)

1 lot (1 specimen).

Peru.

Anadara notabilis (Roding)

1 lot (1 specimen).

Cuba.

Anadara natalensis (Krauss, 1848)

1 lot (1 specimen).

South Africa (Zululand).

Anadara nodifera (Martens, 1860)

4 lots (7 specimens).

Philippines (Negros Isl.), South China Sea (southern Vietnam; Tonkin (Beibu) Gulf).

Anadara pilula (Reeve, 1843)

6 lots (9 specimens).

Philippines (Negros Isl.), South China Sea (southern Vietnam; Vung Ro Bay; Hon Khoi Peninsula; Hainan Isl.).

Anadara satowi (Dunker, 1882)

2 lots (2 specimens).

South China Sea (Vietnam, Tonkin (Beibu) Bay).

Anadara scapha (Chemnitz, 1898)

1 lot (1 specimen).

New Caledonia.

Anadara senilis (L., 1758)

2 lots (2 specimens).

Western Africa (Gulf of Guinea).

Anadara sp.

- 12 lots (16 specimens).
 Bay of Bengal (coast of India); Fiji Isl.;
 Guinea-Bissau; Yellow Sea (Qingdao City).
- Anadara subcrenata** (Lischke, 1869)
 11 lots (26 specimens).
 South China Sea (Tonkin (Beibu) Gulf); Japan
 (Nagasaki); Sea of Japan (Ussuri Bay, subfossil);
 southern Primorye (Holocene deposits).
- Anadara subglobosa** (Dunker, 1891)
 2 lots (62 specimens).
 Guinea (Conakry City).
- Anadara transversa** (Say, 1822)
 1 lot (1 specimen).
 USA (Massachusetts).
- Anadara troscheli** (Dunker, 1882)
 3 lots (3 specimens).
 South China Sea (northern Vietnam).
- Anadara uropigimelana** (Bory, 1824)
 2 lots (2 specimens).
 Indian Ocean: Papua New Guinea (New Britain
 Isl.); South China Sea (Vietnam).
- Arca avellana** Lamarck, 1819
 1 lot (2 specimens).
 South Africa (Zululand).
- Arca boucardi** Jousseaume, 1894
 22 lots (50 specimens).
 Yellow Sea (Qingdao City); Sea of Japan
 (Possjet Bay; Peter the Great Bay; Amur Bay;
 Vostok Bay); Kuril Isls. (Kunashir Isl.).
- Arca navicularis** Bruguiere, 1789
 4 lots (9 specimens).
 East Coast of Africa (Tanzania); Timor Sea;
 South China Sea (Siam Gulf, 10° 51'N,
 103° 09'E).
- Arca mutabilis** (Sowerby, 1833)
 1 lot (1 specimen).
 Costa Rica.
- Arca noae** L., 1758
 2 lots (4 specimens).
 Mediterranean Sea; Gulf of Guinea.
- Arca** sp.
 2 lots (2 specimens).
 USA (southern Florida); Cuba (Varadero).
- Arca subnavicularis** Iredale
 5 lots (6 specimens).
 Australia.
- Arca tetragona** Poli, 1795
 1 lot (1 specimen).
 No data.
- Arca ventricosa** Lamarck, 1819.
 1 lot (1 specimen).
 Vietnam.
- Arca zebra** Swainson
 1 lot (2 specimens).
 USA (Florida).
- Barbatia bicolorata** (Dyllwin, 1817)
 2 lots (2 specimens).
 South China Sea (Vietnam; 09° 56'N, 103° 08'E).
- Barbatia cibotina** (Melvill, 1906)
 1 lot (2 specimens).
 South Africa (Zululand).
- Barbatia colpoidees** Kilburn, 1983
 1 lot (1 specimen).
 South Africa (27° 43,2'S, 32° 40,6'E).
- Barbatia foliata** (Forsskal, 1775)
 1 lot (2 specimens).
 South Africa (Thompson Bay).
- Barbatia lima** (Reeve, 1844)
 3 lots (6 specimens).
 Papua New Guinea (New Britain Isl.); South
 China Sea (Vietnam); Japan (Wakayama Pref.).
- Barbatia obliquata** (Wood, 1828)
 1 lot (2 specimens).
 South Africa (Natal).
- Barbatia setigera** (Reeve, 1844).
 1 lot (1 specimen).
 South Africa (Zululand).
- Barbatia** sp.
 4 lots (5 specimens).
 New Zealand; Australia (Gulf of Carpenteria);
 Papua New Guinea (New Britain Isl.).
- Barbatia sculpturata** Turton
 1 lot (1 specimen).
 South Africa (Transkei).
- Barbatia tetraquetra** Kilburn, 1983

- 1 lot (2 specimens).
South Africa (Transkei).
- Barbatia virescens*** (Reeve, 1843)
1 lot (1 specimen).
South China Sea (Vietnam).
- Bathyarca frielei*** (Jeffreys, 1877)
1 lot (9 specimens).
Barents Sea (80° 14'N, 69° 34'E).
- Bathyarca grenophia*** (Risso, 1826)
1 lot (16 specimens).
Barents Sea (79° 27'N, 41° 40'E).
- Bathyarca orientalis*** (Thiele, 1931)
1 lot (3 specimens).
South Africa (Transkei).
- Hawaiarca*** sp.
1 lot (5 specimens).
India (Bay of Bengal).
- Mimarcaria matsumotoi*** Habe, 1958
1 lot (1 specimen).
South China Sea (09° 05'N, 102° 10'E).
- Mimarcaria matsumotoi*** Habe, 1958
1 lot (1 specimen).
South China Sea (09° 05'N, 102° 10'E).
- Samacar strabo*** (Hedley, 1915)
1 lot (1 specimen).
South Africa (Zululand).
- Scheldonella lateralis*** (Reeve, 1844)
2 lots (2 specimens).
South Africa (Natal); South China Sea (09° 06'N, 102° 10'E).
- Striarca gibba*** (Krauss, 1848)
1 lot (2 specimens).
South Africa (Transkei).
- Striarca lactea*** (L., 1758)
1 lot (6 specimens).
Aegean Sea (Lesbos Isl.).
- Striarca ornata*** (Viader, 1951)
1 lot (1 specimen).
South Africa (Zululand).
- Trisidos semitorta*** (Lamarck, 1819)
3 lot (3 specimens).
South China Sea (southern Vietnam; 10° 44'N, 103° 08'E; 10° 51'N, 103° 09'E).
- Trisidos tortuosa*** (L., 1758)
4 lots (4 specimens).
Indian Ocean; South China Sea (10° 23'N, 103° 46'E; Hainan Isl.).
- Family **Parallelodontidae**
- Porterius dalli*** (Smith, 1885)
1 lot (2 specimens).
Sea of Japan (Moneron Isl.).
- Family **Cucullaeidae**
- Cucullaea labiosa granulosa*** Jonas, 1846
5 lots (8 specimens).
South China Sea (Vietnam, 09° 56'N, 103° 08'E; 10° 21'N, 103° 41'E; Hainan Isl.).
- Family **Glycymerididae**
- Glycymerididae** unidentified
10 lots (16 specimens).
Australia (Lord Howe Isl.); Coral Sea; Papua New Guinea (New Britain Isl.); USA (southern Florida).
- Glycymeris connohyi*** Tomlin, 1923
1 lot (1 specimen).
South Africa (Mossel Bay).
- Glycymeris labirinta*** (Iredale, 1930)
2 lots (3 specimens).
New Zealand; tropical regions of the Pacific Ocean.
- Glycymeris taylori*** (Angas, 1879)
1 lot (2 specimens).
Southern Mosambique.
- Glycymeris yessoensis*** (Sowerby, 1888)
8 lots (30 specimens).
Sea of Japan (Possjet Bay; Peter the Great Bay; Vostok Bay; Nakhodka Bay).
- Veletuceta flammeus*** (Reeve, 1843)
1 lot (2 specimens).
Timor Sea.
- Family **Limopsidae**
- Limopsis*** sp.
3 lots (38 specimens).
60° 38'3"S, 44° 44'6"W; Pacific Ocean (38° 56'N,

142° 59'E).

Order Mytiloida

Family Lithophagidae

Adula falcatoides Habe, 1955

4 lots (5 specimens).
Sea of Japan (Possjet Bay; Peter the Great Bay;
Ussuri Bay; Vostok Bay).

Adula schmidti (Schrenck, 1867)

1 lot (1 specimen).
Kuril Isls. (Kunashir Isl.).

Lithophaga lithophaga L., 1758

1 lot (1 specimen).
South China Sea (Vietnam).

Family Mytilidae

Mytilidae unidentified

1 lot (5 specimens).
Southern coast of Africa; Kenya.

Amygdalum watsoni (Smith, 1885)

1 lot (3 specimens).
South China Sea (Tonkin (Beibu) Gulf).

Aulacomya ater (Molina, 1782)

1 lot (2 specimen).
Southern Africa (False Bay).

Aulacomya maoriana

3 lots (4 specimens).
New Zealand; Australia (Lord How Isl.).

Arvella japonica (Dall, 1897)

1 lot (3 specimens).
Sea of Japan (Tatarsky Strait).

Brachidontes recurvus (Rafinesque, 1820)

1 lot (4 specimens).
Cuba (Varadero).

Brachidontes semistriatus (Krauss, 1848)

1 lot (2 specimens).
Southern Africa (Thompson's Bay).

Brachidontes virgilidae (Bernard, 1964)

1 lot (2 specimens).
Southern Africa (Zululand).

Crenomytilus grayanus (Dunker, 1853)

16 lots (32 specimens).

Sea of Japan (Possjet Bay; Peter the Great Bay;
Ussuri Bay); Kuril Isls. (Iturup Isl.).

Gregariella africana (Bartsch, 1915)

1 lot (1 specimen).
Southern Africa (Shelly Beach).

Gregariella opifex (Say, 1825)

1 lot (2 specimens).
Southern Africa.

Modiolus auriculatus (Krauss, 1848)

2 lots (3 specimens).
Southern Africa.

Modiolus kurilensis Bernard, 1983

11 lots (16 specimens).
Sea of Japan (Possjet Bay; Peter the Great Bay;
Ussuri Bay).

Modiolus metcalfei (Hanley, 1843)

1 lot (1 specimen).
South China Sea (Siam Gulf).

Modiolus modiolus (L., 1758)

4 lots (9 specimens).
Sea of Japan (Moneron Isl.); Commander Isls.
(Bering Isl.); Bering Sea.

Modiolus philippinarum Hanley, 1843

1 lot (3 specimens).
South China Sea (Vietnam).

Modiolus sp.

5 lots (7 specimens).
Kenya; New Zealand; north-western Australia;
Papua New Guinea (New Britain Isl.); South
China Sea (Cambodia).

Musculista senhousia (Benson, 1842)

8 lots (51 specimens).
Sea of Japan (Northern Korea; Possjet Bay;
Amur Bay; Ussuri Bay).

Musculus cuneatum (Gould, 1861)

1 lot (3 specimens).
South Africa.

Musculus imus Bartsch, 1915

1 lot (2 specimens).
South Africa (Zululand).

Musculus laevigatus (Gray, 1824)

5 lots (7 specimens).
Sea of Japan (Slavyanka Bay); Kuril Isls. (Iturup

- Isl.); Kamchatka (Avacha Bay).
- Musculus niger*** (Gray, 1824)
1 lot (1 specimen).
No data.
- Mytilus californianus*** Conrad, 1837
3 lots (15 specimens).
USA (California).
- Mytilus canaliculus*** (Gmelin, 1791)
4 lots (4 specimens).
New Zealand (Auckland City); Australia (Lord Howe Isl.).
- Mytilus coruscus*** Gould, 1861
5 lots (5 specimens).
Sea of Japan (Possjet Bay; Peter the Great Bay).
- Mytilus edulis*** L., 1758 s. l.
20 lots (63 specimens).
Yellow Sea (Dalian City); Sea of Japan (Possjet Bay; Peter the Great Sea; Amur Bay; Ussuri Bay; Vostok Bay); Sakhalin Isl. (Astoh-Piltunsky Bay); Okhotsk Sea (Tauiskaya Inlet); Commander Isls. (Bering Isl.).
- Mytilus galloprovincialis*** (Lamarck, 1819)
7 lots (29 specimens).
Agean Sea; Black Sea; Azov Sea (46° 30'N, 36° 09'E); Sea of Japan (Ussuri Bay; Peter the Great Bay); Kuril Isls. (Kunashir Isl.).
- Mytilus*** sp.
1 lot (1 specimen).
New Zealand (South Isl.).
- Perna*** sp.
2 lots (4 specimens).
New Zealand.
- Perna viridis*** (L., 1758)
4 lots (10 specimens).
Bengal Bay (India); Philippines (Negros Isl.).
- Septifer bilocularis*** (L., 1758)
3 lots (4 specimens).
Papua New Guinea (New Britain Isl.); South China Sea (Cambodia, 10° 51'N, 103° 09'E);
- Septifer keenae*** Nomura, 1936
9 lots (13 specimens).
Sea of Japan (Possjet Bay; Peter the Great Bay; Ussuri Bay; Vostok Bay).
- Vilasina pillula*** Bartsch, 1960
2 lots (3 specimens).
Sea of Japan (Peter the Great Bay; Ussuri Bay).
- Vilasina pseudovernicosa*** Ivanova in Scarlato, 1981
2 lots (7 specimens).
Kuril Isls. (Yankitch Isl.); Commander Isls. (Bering Isl.).
- Family **Pinnidae**
- Atrina*** sp.
1 lot (1 specimen).
Southern Australia.
- Atrina vexillum*** (Born, 1778)
4 lots (4 specimens).
Indian Ocean (Somali; Seyshelles Isls.); South China Sea (Vietnam).
- Pinna atropurpurea*** Sowerby, 1825
1 lot (1 specimen).
South China Sea (Cambodia).
- Pinna bicolor*** Gmelin, 1791
1 lot (1 specimen).
Somali.
- Pinna fumata*** Reeve, 1958
3 lots (4 specimens).
South China Sea (Cambodia; southern Vietnam).
- Pinna pectinata*** (L., 1758)
2 lots (3 specimens).
Australia; South China Sea (Cambodia).
- Pinna*** sp.
2 lots (3 specimens).
South China Sea (10° 51'N, 10° 09'E; 11° 03'N, 103° 00'E).
- Order Pterioida**
- Family **Pteriidae**
- Pinctada fucata*** (Gould, 1850)
5 lots (6 specimens).
Australia (Great Barrier Reef); South China Sea (Siam Bay); Japan (Seto Inland Sea).
- Pinctada maculata*** (Gould, 1850)
2 lots (2 specimens).
Australia (Great Barrier Reef).
- Pinctada margaritifera*** (L., 1758)

8 lots (13 specimens).
Seyshelles Isls.; South China Sea (Siam Gulf);
Hainan Isl.; Pacific Ocean (Cook Isls.).

Pteria sp.

4 lots (9 specimens).
Cuba (Varadero), Australia: Timor Sea; Papua
New Guinea (New Britain Isl.).

Pteria brevialata (Dunker, 1872)

2 lots (13 specimens).
Australia; South China Sea (Cambodia).

Pteria conturnix (Dunker, 1880)

2 lots (5 specimens).
South China Sea (Cambodia).

Pteria loveni (Dunker, 1872)

1 lot (1 specimen).
Timor Sea.

Pteria penguin (Roding, 1798)

2 lots (2 specimens).
South China Sea (Vietnam).

Family **Isognomonidae**

Isognomonidae unidentified

2 lots (6 specimens).
Cuba (Varadero), South China Sea (Siam Gulf).

Isognomon isognomum (L., 1758)

3 lots (3 specimens).
South China Sea (Siam Gulf).

Family **Vulsellidae**

Vulsellidae unidentified

1 lot (1 specimen).
Red Sea.

Family **Malleidae**

Malleus albus Lamareck, 1819

8 lots (16 specimens).
Australia (Arafura Sea); South China Sea
(Vietnam; Siam Gulf; Anthoi Isl.).

Malleus malleus (L., 1758)

2 lots (8 specimens).
South China Sea (Vietnam).

Malleus sp.

1 lot (1 specimen).
Papua New Guinea (New Britain Isl.).

Family **Pectinidae**

Pectinidae unidentified

37 lots (90 specimens).
Mexico (Baja California); Cuba (Varadero); USA
(southern Florida); west Africa (coast of Congo;
coast of Sierra-Leone); France; New Zealand
(Cooke Isl.); Australia (24° 55'S, 152° 30'E;
23° 35'8"S, 151° 18'7"E; Carpentaria Gulf); Timor
Sea; Coral Sea; South China Sea (Siam Gulf);
Japan (Okinawa).

Aequipecten opercularis (L., 1759)

1 lot (1 specimen).
Great Britain (Bristol Bay).

Amusium pleuronectes (L., 1758)

11 lots (39 specimens).
Timor Sea; Australia (Carpentaria Gulf); South
China Sea (Siam Gulf; Tonkin (Beibu) Gulf).

Amusium sp.

1 lot (2 specimens).
West Africa (Guinea-Bissau).

Aequipecten gibbosus (L., 1758)

1 lot (1 specimen).
No data.

Argopecten solidulus (Reeve, 1853)

1 lot (2 specimens).
Western coast of Africa (Sierra-Leone).

Chlamys albida (Dall in Arnold, 1906)

1 lot (1 specimen).
Bering Sea (60° 35'N, 172° 03'E).

Chlamys behringiana (Middendorff, 1849)

6 lots (8 specimens).
Sea of Japan (44° 06'N, 135° 43'E); Northern
Kuril Isls.; Bering Sea (Olutorsky Bay).

Chlamys farreri (Jones et Preston, 1904)

6 lot (16 specimens).
Sea of Japan (Poosjet Bay, Peter the Great Bay;
Ussuri Bay); southern Primorye (Holocene
deposits).

Chlamys jousseaumei (Bavay, 1904)

1 lot (1 specimen).
Japan.

Chlamys irregularis (Sowerby, 1842)

2 lots (2 specimens).

Japan.

Chlamys islandica (Muller, 1776)

1 lot (1 specimen).

Bering Sea.

Chlamys rosealba Scarlato, 1981

2 lots (3 specimens).

Sea of Japan (Ussuri Bay).

Chlamys sp.

1 lot (1 specimen).

Kuril Isls. (Paramushir Isl.).

Chlamys swifti (Bernardi, 1858)

11 lots (28 specimens).

Sea of Japan (Possjet Bay; Peter the Great Bay; Ussuri Bay); Kuril Isls. (Shikotan Isl., Iturup Isl.).

Crassadoma gigantea (Gray, 1825)

1 lot (6 specimens).

USA (California).

Decatopecten plicus (L., 1758)

1 lot (1 specimen).

Philippines.

Fortipecten takahashii (Yokoyama, 1830)

1 lot (1 specimen).

Sakhalin (Terpenya Bay) (Pliocene deposits).

Muzuhopecten yessoensis (Jay, 1856)

9 lots (21 specimens).

Sea of Japan (Possjet Bay; Peter the Great Bay; Amur Bay).

Pecten langfordi Dall, 1938

1 lot (1 specimen).

Hawaiian Isls.

Pecten maximus L., 1758

1 lot (1 specimen).

Spain.

Polynemamussium alaskensis (Dall, 1871)

2 lots (5 specimens).

Sea of Japan (46° 02'5"N, 138° 18'E); Okhotsk Sea.

Family **Spondylidae**

Spondylus regius L., 1758

5 lots (8 specimens).

Australia; South China Sea (Siam Gulf).

Spondylus sp.

7 lots (9 specimens).

Arabian Sea (Sokotra); New Zealand (Cooke Strait); Pacific Ocean (Cooke Isls.); Australia; Papua New Guinea (New Britain Isl.); South China Sea (Hainan Isl.).

Spondylus squamosus Schreibers, 1793

3 lots (4 specimens).

Australia; Papua New Guinea; South China Sea (Cambodia).

Spondylus wrightianus Crosse, 1872

2 lots (6 specimens).

Australia.

Spondylus nicobaricus Schreibers, 1793

1 lot (3 specimens).

Australia.

Family **Plicatulidae**

Plicatula sp.

2 lots (2 specimens).

Australia.

Family **Anomiidae**

Pododesmus cepio (Gray, 1850)

2 lots (7 specimens).

USA (California).

Pododesmus macrochisma (Deshayes, 1839)

14 lots (38 specimens).

Sea of Japan (Possjet Bay; Kievka Bay; 45° 17,8'N, 137° 05'8"E; Tatarsky Strait); Kuril Isls. (Iturup and Shikotan Isls.); Kamchatka (Avacha Bay); Commander Islands (Bering Isl.); Okhotsk Sea (Tauyskaya Inlet); Bering Sea (57° 00'N, 170° 09'W).

Family **Placunidae**

Placuna placenta (L., 1758)

5 lots (6 specimens).

South China Sea (Siam Gulf).

Placuna sella (Gmelin, 1781)

3 lots (3 specimens).

South China Sea (southern Vietnam).

Family **Limidae**

Acesta goliath (Sowerby, 1883)

5 lots (8 specimens).
Australia; New Zealand.

Acesta sp.

2 lots (7 specimens).
South China Sea (southern Vietnam).

Lima lima (L., 1758)

3 lots (6 specimens).
North-western Australia; New Zealand; Papua
New Guinea (New Britain Isl.).

Lima sp.

3 lots (3 specimens).
USA (Florida).

Lima tropicalis (Iredale, 1929)

6 lots (12 specimens).
Australia (Gulf of Carpentaria); Timor Sea.

Suborder Ostreina

Family Ostreidae

Ostreidae unidentified

6 lots (7 specimens).
France; Cuba (Varadero); Australia; South China
Sea (10° 33'N, 103° 16'E).

Agerostrea megodon (Hanley, 1846)

1 lot (2 specimen).
Mexico (24° 37,5'N, 112° 07,5'W).

Crassostrea columbiensis (Hanley, 1846)

1 lot (2 specimens).
Costa Rica (9° 23'N, 84° 10'W).

Crassostrea gigas (Thunberg, 1793)

21 lots (52 specimens).
Mediterranean Sea (coast of France); Sea of
Japan (Possjet Bay; Peter the Great Bay;
Slavyanka Bay; Amur Bay; Ussuri Bay;
Nakhodka Bay); southern Primorye (Holocene
deposits); USA (Washington).

Crassostrea virginica (Gmelin, 1791)

1 lot (1 specimen).
USA (Mariland).

Dendostrea crenulifera (Sowerby, 1878)

1 lot (1 specimen).
South China Sea (10° 51'N, 103° 09'E).

Dendostrea folium (L., 1758)

3 lots (9 specimens).

South China Sea (Cambodia; 10° 21'N,
103° 41'E; 105° N, 103° 09'E).

Dendostrea paulucciae (Crosse, 1870)

2 lots (2 specimens).
South China Sea (Siam Gulf; 11° 02'N,
103° 00'E).

Hyotissa hyotis (L., 1758)

4 lots (4 specimens).
Red Sea, Papua New Guinea (New Britain Isl.);
South China Sea (Cambodia).

Lopha angelica (Rochebrune, 1895)

1 lot (1 specimen).
Mexico (29° 02,6'N, 113° 07,7'W).

Lopha cristagalli (L., 1758)

2 lots (2 specimens).
South China Sea (Cambodia).

Ostrea conchaphila Carpenter, 1857

1 lot (4 specimens).
Mexico (Pacific coast).

Ostrea edulis (L., 1758)

1 lot (1 specimen).
France.

Ostrea glomerata Gould

1 lot (1 specimen).
Australia (Lord Howe Isl.).

Ostrea lutraria Hutton, 1873

2 lots (6 specimens).
New Zealand (Cooke Strait).

Pretostrea imbricata (Lamarck, 1819)

7 lots (19 specimens).
Australia (north-western region); South China
Sea (Siam Gulf).

Pretostrea rivularis (Gould, 1861)

2 lots (6 specimens).
South China Sea (southern Vietnam; 11 02 N,
103 01 E).

Saccostrea commercialis (Iredale et Roughley, 1933)

1 lot (1 specimen).
No data.

Striostrea prismatica (Gray, 1825)

2 lots (2 specimens).
Mexico (15° 45'N, 96° 06'W; 20° 45'N,
105° 30'W).

Subclass PALAEOTHERODONTA

Order Unionoida

Family Margaritiferidae

Dahurinaia dahurica (Middendorff, 1850)
2 lots (4 specimens).
Primorye: Khabarovsk Territory (Amur River).

Dahurinaia laevis kurilensis Zatravkin et
Starobogatov, 1984

1 lot (3 specimens).
Kuril Isls. (Kunashir Isl.).

Dahurinaia laevis laevis (Haas, 1910)
1 lot (1 specimen).
Sakhalin Isl. (Otchipa River).

Margaritifera margaritifera (L., 1758)
1 lot (1 specimen).
Murmanskaya Territory, Kola Peninsula.

Family Unionidae

Anemina buldouskii Moskvicheva, 1973
1 lot (1 specimen).
Primorye (Khanka Lake).

Anemina flavotincta (Martens, 1905) s. l.
6 lots (73 specimens).
Primorye (Ryazanovka River; lake near
Andreevka Village; Nadezhdinsky District).

Anemina kijaensis (Moskvicheva, 1973)
1 lot (1 specimen).
Primorye (Ussuri River).

Anemina shadini shadini (Moskvicheva, 1973)
2 lots (40 specimens).
Primorye (Arsenyevka River; Khanka Lake).

Anemina shadini deflexa Martynov et Tshernyshev,
1992
6 lots (80 specimens).
Primorye (Vladivostok, lake near Patrokl Bay;
Bogataya River).

Anemina sujfunensis (Shadin, 1938)
3 lots (24 specimens).
Primorye (Cherepashye (Ambabosa) Lake;
Bogataya River; valley of Razdolnaya (Suifun)
River).

Anemina sujfunensis var. *suptinensis*
(Moskvicheva, 1973)

3 lots (15 specimens).
Primorye (Cherepashye (Ambabosa) Lake;
lake near Smolyaninovo Railway Station).

Anemina zatravkini Martynov et Tshernyshev, 1992
1 lot (1 specimen).
Primorye (Kiparisovo Railway Station).

Anodonta cygnea (L., 1758)
1 lot (2 specimens).
Ukraine, Vinnitskaya Territory.

Colleopterum piscinalis (Nilsson, 1823) s. l.
1 lot (22 specimens).
Leningradskaya Territory (Gulf of Finland).

Crassiana sp.
1 lot (1 specimen).
Moldova (Dnestr River).

Cristaria plicata var. *herculea* (Middendorff, 1847)
10 lots (21 specimens).
Primorye (Ussuri River; Ilistaya River; Mo River;
Khanka Lake); Khabarovsk Territory
(Osinovaya River).

Cristaria plicata var. *tuberculata* Schumacher, 1817
2 lots (3 specimens).
Primorye (Ilistaya River).

Inversidens brandti (Kobelt, 1879)
1 lot (1 specimen).
Japan (Asahi River).

Lanceolaria cuspidata Kira, 1959
1 lot (1 specimen).
Japan (Asahi River).

Middendorffinaia shadini Moskvicheva et
Starobogatov, 1973
3 lots (11 specimens).
Primorye (Kiparisovo Railway Station -
Kiparisovka River).

Middendorffinaia sujfunensis Moskvicheva et
Starobogatov, 1973
3 lots (5 specimens).
Primorye (Kiparisovo Railway Station -
Kiparisovka River).

Nodularia abbreviata (Westerlund, 1897)
3 lots (5 specimens).
Primorye (basin of Khanka Lake; Goncharova
Lake); Khabarovsk Territory (basin of Amur
River).

- Nodularia amurensis* (Mousson, 1887)
1 lot (3 specimens).
Khabarovsk Territory (basin of Amur River).
- Nodularia biwae* (Kobelt, 1879)
1 lot (1 specimen).
Japan (Biwa Lake).
- Nodularia extremalis* Martynov et Tshernyshev,
1992
1 lot (1 specimen).
Magadanskaya Territory (near Motykleika Bay).
- Nodularia middendorffi* (Westerlund, 1890)
3 lots (5 specimens).
Primorye (basin of Khanka Lake); Khabarovsk Territory (Amur River).
- Nodularia sujfunica* Moskvicheva, 1973
4 lots (27 specimens).
Primorye (environs of Vladivostok; basin of Razdolnaya (Suifun) River).
- Nodularia sujfunica* var. *vladivostokensis*
Moskvicheva, 1973
4 lots (9 specimens).
Primorye (basin of Razdolnaya (Suifun) River).
- Pronodularia japonensis* (Lea, 1859)
1 lot (1 specimen).
Japan (Asahi River).
- Pronodularia reiniana* (Kobelt, 1879)
1 lot (1 specimen).
Japan (Biwa Lake).
- Pronodularia yanagawensis* (Kondo, 1982)
1 lot (1 specimen).
Japan (Asahi River).
- Pseudoanodonta anatina* (L., 1758) s. l.
1 lot (2 specimens).
Leningradskaya Territory (Gulf of Finland).
- Sinanodonta fukudai* Modell, 1945 s. l.
1 lot (3 specimens).
Primorye (Gladkaya River).
- Sinanodonta haconensis* (Ihering, 1893)
1 lot (1 specimen).
Kuril Isls. (Kunashir Isl.).
- Sinanodonta japonica* (Clessin, 1874)
1 lot (1 specimen).
Kuril Isls. (Lagunnoe Lake, Kunashir Isl.)
- Sinanodonta likharevi* Moskvicheva, 1973
1 lot (1 specimen).
Primorye (basin of Ilistaya River).
- Sinanodonta primorjensis* Bogatov et Zatravkin,
1988
5 lots (10 specimens).
Primorye (Vladivostok; basin of Razdolnaya (Suifun) River).
- Sinanodonta primorjensis* Bogatov et Zatravkin,
1988 forma "*fukudai*" sensu
Moskvicheva, 1973
2 lots (2 specimens).
Primorye (Razdolnaya (Suifun) River).
- Sinanodonta renzini* Bogatov et Zatravkin, 1988
1 lot (2 specimens).
Primorye (valley of Razdolnaya (Suifun) River).
- Sinanodonta sihotealinica* (Zatravkin et
Starobogatov, 1984)
1 lot (1 specimen).
Primorye (Zapovednoye Lake).
- Sinanodonta amurensis* Moskvicheva, 1973
2 lots (2 specimens).
Primorye (Dmitrievka River).
- Sinanodonta* sp.
3 lots (3 specimens).
Primorye (Razdolnaya (Suifun) River; Khanka Lake).
- Unio conus* Spengler, 1793
1 lot (2 specimens).
Leningradskaya Territory (Gulf of Finland).
- Unio pictorum* (L., 1758) s. l.
1 lot (1 specimen).
Tambovskaya Territory (water body near L'vovo Village).
- Unio tumidus* Philipsson, 1788
1 lot (3 specimens).
Moldova (sandy spit, Dnestr River).
- Family **Amblemidae**
- Obovalis omiensis* (Heimburg, 1884)
1 lot (1 specimen).
Japan.

Order Trigonioida

Family Trigoniidae

Neotrigonia lamarekii (Gray, 1838)

1 lot (2 specimens).
New Zealand (Cook Strait).

Subclass HETERODONTA
Order Veneroida

Family Lucinidae

Lucinidae unidentified

2 lots (2 specimens).
USA (Southern Florida), Cuba (Varadero).

Anodontia stearnsiana Oyama, 1954

1 lot (1 specimen).
South China Sea (Vietnam).

Codakia punctata (L., 1758)

1 lot (1 specimen).

Codakia sp.

2 lots (6 specimens).
Australia (Lord Howe Isl.); Indonesia.

Codakia tigrina (L., 1758)

2 lots (2 specimens).
New Zealand; South China Sea (Vietnam).

Lucinoma adamsiana Habe, 1958

1 lot (1 specimen).
South China Sea.

Pillucina pisidium (Dunker, 1860)

1 lot (2 specimen).
Sea of Japan (Ussuri Bay).

Family Thyasiridae

Axinopsida orbiculata (Adams, 1861)

2 lots (6 specimens).
Sea of Japan (Amur Bay; Ussuri Bay).

Conchocele scarlatoi Ivanova et Moskaletz, 1984

1 lot (1 specimen).
Sea of Japan (Possjet Bay).

Family Fimbriidae

Fimbria soverbii (Reeve, 1841)

1 lot (1 specimen).
Western coast of Australia.

Family Ungulinidae

Diplodonta semiasperoides Nomura, 1932

12 lots (26 specimens).
Sea of Japan (Possjet Bay; Peter the Great Bay; Ussuri Bay; Moneron Isl.).

Diplodonta sp.

1 lot (2 specimens).
Japan (Nagasaki City).

Felaniella usta (Gould, 1861)

14 lots (62 specimens).
Sea of Japan (Possjet Bay; Peter the Great Bay; Ussuri Bay; Nakhodka Bay; Tatarsky Strait).

Family Chamidae

Chama lazarus L., 1758

3 lots (7 specimens).
South China Sea (Vietnam: 09° 08'N, 102° 12'E).

Chama reflexa Reeve, 1846

3 lots (4 specimens).
Australia (24° 55'S, 152° 30'E); South China Sea (Siam Gulf).

Chama sp.

9 lots (20 specimens).
Italy (Liguria, Pliocene deposits); Australia (24° 55'S, 152° 30'E); Papua New Guinea (New Britain Isl.); Mexico (Baja California); USA (California; southern Florida (Pleistocene deposits)).

Family Kelliidae

Kellia laperousei Deshayes, 1839

1 lot (3 specimens).
USA (California).

Family Montacutidae

Mysella kurilensis Scarlato et Ivanova, 1974

1 lot (22 specimens).
Kuril Isls. (Shikotan Isl.).

Nipponomysella obesa Habe, 1960

1 lot (1 specimen).
Sea of Japan (Ussuri Bay).

Family Turtoniidae

Turtonia minuta (Fabricius, 1780)

1 lot (5 specimens).
Sea of Japan (Ussuri Bay).

Family **Carditidae**

Carditidae unidentified

4 lots (6 specimens).
Bay of Bengal (coast of India); Australia.

Cyclocardia sp.

2 lots (5 specimens).
Sakhalin (Terpenya Bay); Kuril Isls. (Kunashir Isl.).

Glans carpenteri (Lamy, 1922)

1 lot (2 specimens).
USA (California).

Miodontiscus annakensis (Oinomikado, 1938)

1 lot (6 specimens).
Kuril Isls. (Kunashir Isl.).

Family **Astartidae**

Astarte castanea (Say, 1822)

1 lot (2 specimens).
USA (New Jersey).

Astarte compacta Carpenter, 1864

2 lots (6 specimens).
Canada (54° 12,5'N, 132° 53,6'W); USA (Alaska).

Astarte crenata (Gray, 1824)

1 lot (2 specimens).
USA (Massachusetts).

Astarte esquimalti (Baird, 1863)

1 lot (6 specimens).
USA (Alaska).

Astarte nana Dall, 1886

1 lot (1 specimen).
USA (Florida).

Astarte scala Montagu

1 lot (2 specimens).
USA (Long Isl.).

Astarte smithii Dall, 1886

1 lot (2 specimens).
USA (Florida).

Astarte sulcata (Da Costa, 1778)

1 lot (2 specimens).
England.

Astarte willetti Dall, 1917

1 lot (3 specimens).

USA (Alaska).

Astarte undata Gould, 1841

1 lot (3 specimens).
USA (Massachusetts).

Tridonta alaskensis (Dall, 1903)

2 lots (12 specimens).
USA (Alaska: 59° 29'N, 151° 36'W).

Tridonta borealis Schumacher, 1817

3 lots (4 specimens).
Sea of Japan (Tatarsky Strait); USA.

Tridonta montagui (Dillwyn, 1817)

1 lot (1 specimen).
USA (Alaska).

Tridonta rollandi (Bernardi, 1859)

6 lots (10 specimens).
Okhotsk Sea (north-eastern Sakhalin Isl.);
Kamchatka (Avacha Bay); USA (Alaska).

Family **Cardiidae**

Cardiidae unidentified

8 lots (18 specimens).
Australia (Lord Howe Isl.); South China Sea
(Vietnam); Mexico (24° 11'N; 106° 26'W); USA
(Florida); Cuba (Varadero).

Acanthocardia ciliaris (L., 1758)

1 lot (1 specimen).
France.

Acanthocardia aculeata (L., 1758)

1 lot (1 specimen).
Mediterranean Sea (France).

Acanthocardia echinata (L., 1758)

1 lot (1 specimen).
France.

Americardia biangulata (Broderip et Sowerby, 1829)

3 lots (16 specimens).
Mexico (26° 56'N, 112° 00'W; Galisco); USA
(California).

Bucardium ringens (Bruguiere, 1789)

1 lot (1 specimen).
Western Africa (Dakar).

Cardium isocardia L., 1758

1 lot (2 specimens).
USA (Florida).

- Cardium** sp.
1 lot (6 specimens).
"Ensenada Blanca."
- Cerastoderma edule** L., 1758
3 lots (4 specimens).
France.
- Cerastoderma glaucum** (Poirer, 1789)
2 lots (16 specimens).
Mediterranean Sea (France), Baltic Sea
(Kurskaya Spit).
- Ciliatocardium ciliatum** (Fabricius, 1780)
7 lots (9 specimens).
Sea of Japan (Peter the Great Bay); Bering Sea
(58° 00'N, 164° 01'W; 59° 59'N, 169° 23'2"E;
61° 00'N, 172° 17'W); Kamchatka; USA
(55° 23'2"N, 161° 33'6"W).
- Ciliatocardium likharevi** Kafanov in Scarlato, 1981
1 lot (1 specimen).
Okhotsk Sea (55° 29'5"N, 156° 26'E).
- Clinocardium nuttallii** (Conrad, 1837)
1 lot (1 specimen).
Bering Sea (coast of Kamchatka).
- Corculum cardissa** (L., 1758)
1 lot (1 specimen).
No data.
- Dinocardium vanhynningi** Clench et Smith, 1944
1 lot (1 specimen).
USA (Florida).
- Fragum unedo** (L., 1758)
3 lots (5 specimens).
Australia; South China Sea (Vietnam; Hainan
Isl.).
- Keenocardium californiense** (Deshayes, 1839)
16 lots (39 specimens).
Sea of Japan (Possjet Bay; Peter the Great Bay;
Ussuri Bay); Okhotsk Sea (Tauskaya Inlet);
Kuril Isls. (Shikotan Isl.); Chukotka.
- Laevicardium crassum** (Gmelin, 1791)
1 lot (1 specimen).
France.
- Laevicardium elatum** (Sowerby, 1833)
1 lot (1 specimen).
Mexico.
- Laevicardium elenense** (Sowerby, 1841)
2 lots (15 specimens).
Mexico (Baja California).
- Laevicardium procerum** (Sowerby in Broderip et
Sowerby, 1833)
2 lots (9 specimens).
Mexico (Sonora).
- Laevicardium substriatum** (Conrad, 1837)
1 lot (8 specimens).
USA (California).
- Lophocardium annettae** (Dall, 1889)
2 lots (6 specimens).
Mexico (Sonora).
- Microcardium pazianum** (Dall, 1916)
1 lot (8 specimens).
Mexico (Sonora).
- Nemocardium centifilosum** (Carpenter, 1846)
1 lot (34 specimens).
USA (California).
- Papyridea aspersa** (Sowerby, 1833)
1 lot (3 specimens).
Costa Rica (9° 47.0'N, 84° 53.5'W).
- Parvicardium ovale** (Sowerby, 1834)
1 lot (1 specimen).
France.
- Regozara flava** (L., 1758)
1 lot (1 specimen).
Australia (Dingo Beach).
- Serripes groenlandicus** (Bruguiere, 1789)
6 lots (7 specimens).
Sea of Japan (Peter the Great Bay; Vostok Bay;
Tatarsky Strait); Kamchatka; Bering Sea
(62° 14'N, 179° 56'E).
- Serripes laperousii** (Deshayes, 1839)
2 lots (2 specimens).
Kuril Isls. (Simushir Isl.); USA (Alaska).
- Trachycardium consors** (Sowerby, 1833)
1 lot (1 specimen).
Mexico (Baja California).
- Trachycardium flavum** (L., 1758)
2 lots (5 specimens).
South China Sea (Vietnam; Hainan Isl.).

Trachycardium quadragenarium (Conrad, 1837)
2 lots (5 specimens).
USA (California).

Trachycardium muricatum (L., 1758)
1 lot (45 specimens).
USA (Florida).

Trachycardium senticosum (Sowerby, 1833)
1 lot (3 specimens).
Mexico (Sonora).

Trachycardium sp.
1 lot (1 specimen).
South China Sea (Siam Gulf).

Trigoniocardia granifera (Broderip et Sowerby, 1829)
2 lots (29 specimens).
Mexico (Sinaloa); Costa Rica (10° 38,68'N,
85° 41,9'W).

Trigoniocardia obovalis (Sowerby, 1833)
2 lots (11 specimens).
Guatemala (Escuinta); Mexico (Jalisco).

Vasticardium arenicola (Reeve, 1854)
2 lots (4 specimens).
South China Sea (Siam Gulf, 09° 56'N,
103° 08'E; Tonkin (Beibu) Gulf).

Vepricardium multisinosum (Sowerby, 1841)
1 lot (1 specimen).
South China Sea (Siam Gulf, 09° 57'N,
103° 08'E).

Vepricardium sinense (Sowerby, 1841)
1 lot (1 specimen).
South China Sea (Siam Gulf, 10° 51'N,
103° 09'E).

Yagudinella notabilis (Sowerby, 1915)
3 lots (5 specimens).
Bering Sea (55° 40'N, 168° 17'W; 61° 00'N,
172° 17'W; 61° 32'N, 178° 45'W).

Family **Tridacnidae**

Hippopus hippopus L., 1758
3 lots (3 specimens).
Timor Sea; Indonesia; Papua New Guinea (New
Britain Isl.).

Tridacna crocea Lamarck, 1819

1 lot (1 specimen).
New Zealand.

Tridacna gigas (L., 1758)
3 lots (3 specimens).
Western Australia (Great Barrier Reef).

Tridacna maxima (Roding, 1798)
3 lots (5 specimens).
New Zealand; Australia (Great Barrier Reef);
South China Sea (southern Vietnam).

Tridacna squamosa Lamarck, 1819
5 lots (5 specimens).
Seychelles Is.; Papua New Guinea (New Britain
Isl.); South China Sea (Cambodia).

Family **Mactridae**

Mactridae unidentified
2 lots (2 specimens).
France, Philippines (Negros Isl.).

Mactra chinensis Philippi, 1846
9 lots (23 specimens).
Sea of Japan (Possjet Bay; Slavyanka Bay;
Amur Bay; Ussuri Bay).

Mactra corallina cinerea Montagu
1 lot (1 specimen).
France.

Mactra grandis Gmelin, 1791
2 lots (2 specimens).
South China Sea (Cambodia; Vietnam).

Mactra maculata Gmelin, 1791
2 lots (2 specimens).
South China Sea (Vietnam).

Mactra sp.
3 lots (13 specimens).
New Zealand (South Isl.); South China Sea
(Vietnam); Mediterranean Sea (France).

Mactra veneriformis Deshayes, 1853
18 lots (65 specimens).
Sea of Japan (Possjet Bay; Peter the Great Bay;
Ussuri Bay); southern Primorye (Holocene
deposits).

Mactromeris polynyma (Stimpson, 1860)
9 lots (14 specimens).
Sea of Japan (Possjet Bay; Peter the Great Bay;
Moneron Isl.); south-western Kamchatka; Bering

Sea (58° 00'N, 158° 23'W; 58° 40'N, 162° 46'W; 62° 55'N, 179° 30'E); Commander Isls. (Bering Isl.).

Raeta pulchella (Adams et Reeve, 1848)

5 lots (34 specimens).

Sea of Japan (Ussuri Bay); Southern Primorye (Holocene).

Spisula sachalinensis (Schrenck, 1862)

12 lots (24 specimens).

Sea of Japan (Possjet Bay; Peter the Great Bay; Vostok Bay; Olga Bay); southern Primorye (Holocene deposits); Kuril Isls. (Kunashir Isl.).

***Spisula* sp.**

5 lots (9 specimens).

Mexico; Cuba (Varadero); France (Mediterranean Sea).

Family **Mesodesmatidae**

Mesodesmatidae unidentified

2 lots (9 specimens).

New Zealand (South Isl.); Australia (Lord Howe Isl.).

Atactodea striata (Gmelin, 1791)

1 lot (1 specimen).

Fiji Isls.

Family **Cardiliidae**

Cardilia semisulcata (Lamarck, 1819)

1 lot (4 specimens).

Papua New Guinea.

Family **Donacidae**

Donacidae unidentified

1 lot (2 specimens).

France.

Donax cuneatum (L., 1758)

1 lot (1 specimen).

South China Sea (Vietnam).

Donax semistriatus Poli, 1759

2 lots (10 specimens).

Black Sea.

***Donax* sp.**

1 lot (3 specimens).

No data.

Family **Tellinidae**

Angulus modestus Carpenter, 1864

1 lot (3 specimens).

USA (California).

Apolymetis spectabilis (Hanley, 1844)

1 lot (1 specimen).

South China Sea (southern Vietnam).

Cadella lubrica (Gould, 1861)

3 lots (14 specimens).

Sea of Japan (Peter the Great Bay; Vostok Bay; Nakhodka Bay).

Cadella nuculoides (Reeve, 1854)

1 lot (1 specimen).

USA (California).

Cyclotellina remies (L., 1758)

2 lots (2 specimens).

Papua New Guinea (New Britain Isl.); South China Sea (Vietnam).

Cymatoica undulata (Hanley, 1844)

1 lot (1 specimen).

Mexico (27° 50'N, 110° 53'W).

Heteromacoma irus (Hanley, 1844)

12 lots (26 specimens).

Sea of Japan (Possjet Bay; Peter the Great Bay; Ussuri Bay; Vostok Bay; Olga Bay).

Macalia bruguieri (Hanley, 1844)

2 lots (2 specimens).

South China Sea (Vietnam); China (Mui Luk).

Macoma acolasta Dall, 1921

1 lot (2 specimens).

USA (California).

Macoma balthica (L., 1758)

Baltic Sea; Sea of Japan (Possjet Bay; Peter the Great Bay; Amur Bay; Ussuri Bay); southern Sakhalin (Tunaicha Lake); north-eastern Sakhalin; Kamchatka (Avacha Bay); Commander Isls. (Bering Isl.); USA (Washington).

Macoma brevifrons (Say, 1834)

1 lot (1 specimen).

Uruguay.

Macoma brota Dall, 1916

1 lot (2 specimens).

- USA (Alaska).
- Macoma calcarea*** (Gmelin, 1790)
14 lots (31 specimens).
Sea of Japan (north-western part); Kuril Isls. (Ushishir Isls.); Bering Sea; USA (Alaska).
- Macoma carlottensis*** Whiteaves, 1880
2 lots (21 specimens).
USA (California).
- Macoma cleryana*** (d'Orbigny, 1846)
1 lot (1 specimen)
Brazil.
- Macoma contabulata*** (Deshayes, 1854)
10 lots (25 specimens).
Sea of Japan (Possjet Bay; Ussuri Bay; Vostok Bay; Olga Bay); southern Primorye (Holocene deposits).
- Macoma constricta*** (Bruguiere, 1792)
2 lots (2 specimens).
USA (Florida).
- Macoma crassula*** (Deshayes, 1855)
1 lot (1 specimen).
USA (Alaska).
- Macoma deltoidalis*** (Lamarck, 1818)
1 lot (2 specimens).
Tasmania.
- Macoma elimata*** Dunnill et Coan, 1968
1 lot (1 specimen).
Canada (British Columbia).
- Macoma expansa*** Carpenter, 1864
1 lot (3 specimens).
USA (California).
- Macoma fusca*** Say
1 lot (2 specimens).
USA (Massachusetts).
- Macoma golikovi*** Scarlato et Kafanov, 1988
1 lot (1 specimen).
Sea of Japan (Tatarsky Strait).
- Macoma grandis*** (Hanley, 1844)
1 lot (1 specimen).
Panama.
- Macoma incongrua*** (Martens, 1865)
14 lots (38 specimens).
Sea of Japan (Possjet Bay; Peter the Great Bay; Ussuri Bay); southern Primorye (Holocene deposits).
- Macoma indentata*** (Carpenter, 1864)
3 lots (41 specimens).
Mexico (Cholla Bay); USA (California).
- Macoma lama*** Bartsch, 1929
4 lots (46 specimens).
Sea of Japan (Ussuri Bay; Tatarsky Strait); Okhotsk Sea (Nagaeva Bay); USA (Alaska).
- Macoma inquinata*** (Deshayes, 1855)
2 lots (3 specimens).
USA (Alaska).
- Macoma lamproleuca*** (Pilsbry et Lowe)
2 lots (3 specimens).
Mexico.
- Macoma limula*** Dall, 1895
1 lot (1 specimen).
Mexico (Gulf of Mexico).
- Macoma lipara*** Dall, 1916
1 lot (1 specimen).
Canada (British Columbia).
- Macoma lukini*** Kamenev, 1990
2 lots (14 specimens).
Kuril Isls. (Ushishir Isls.).
- Macoma medioamericana*** Olsson, 1942
2 lots (3 specimens).
Mexico.
- Macoma middendorffi*** Dall, 1885
6 lots (9 specimens).
Sea of Japan (Peter the Great Bay; Tatarsky Strait); Okhotsk Sea (Tauskaya Inlet); Kuril Isls. (Kunashir Isl.).
- Macoma moesta*** (Deshayes, 1855)
2 lots (2 specimens).
USA (Alaska).
- Macoma nasuta*** (Conrad, 1837)
2 lots (7 specimens).
USA (California).
- Macoma nipponica*** (Tokunaga, 1906)
7 lots (11 specimens).
Sea of Japan (Possjet Bay; Peter the Great Bay; Ussuri Bay).
- Macoma obliqua*** (Sowerby, 1837)

- 2 lots (4 specimens).
Commander Isls. (Bering Isl.); USA (Alaska).
- Macoma orientalis*** Scarlato in Golikov et Scarlato, 1967
12 lots (17 specimens).
Sea of Japan (Possjet Bay; Ussuri Bay); southern Primorye (Holocene deposits).
- Macoma* cf. *praetexta*** (Martens, 1865)
1 lot (2 specimens).
Kurul Isls. (Kunashir Isl.).
- Macoma secta*** (Conrad, 1857)
1 lot (3 specimens).
USA (California).
- Macoma sector*** Oyama, 1950
8 lots (17 specimens).
Sea of Japan (Peter the Great Bay; Ussuri Bay).
- Macoma siliqua*** (C.B. Adams, 1852)
1 lot (1 specimen).
Mexico.
- Macoma spectri*** Hertlein et Strong, 1949
1 lot (3 specimens).
Mexico.
- Macoma tenta*** (Say, 1834)
1 lot (2 specimens).
Puerto Rico.
- Macoma tokyoensis*** Makiyama, 1927
13 lots (51 specimens).
Sea of Japan (Possjet Bay; Ussuri Bay); southern Primorye (Holocene deposits).
- Macoma yoldiformis*** Carpenter, 1864
1 lot (1 specimen).
USA (California).
- Megangulus bodegensis*** (Hinds, 1845)
1 lot (12 specimens).
USA (California).
- Megangulus luteus*** (Wood, 1828)
6 lots (22 specimens).
Sea of Japan (Amur Bay); Sakhalin (Astokh-Pil'tunsky Bay); Kamchatka (Avacha Bay); Bering Sea (Commander Isls.; Korf Bay).
- Megangulus venulosus*** (Schrenck, 1861)
17 lots (54 specimens).
Sea of Japan (Possjet Bay; Peter the Great Bay; Amur Bay; Ussuri Bay; Olga Bay); southern Sakhalin; Kurul Isls. (Kunashir Isl.).
- Megangulus zyonoensis*** (Hatai et Nisiyama, 1939)
10 lots (11 specimens).
Sea of Japan (Possjet Bay; Peter the Great Bay; Amur Bay); Kurul Isls. (Kunashir and Shikotan Isls.).
- Pharaonella rostrata*** (L., 1758)
1 lot (1 specimen).
South China Sea (Vietnam).
- Quidnipagus palatum*** Iredale, 1929
1 lot (1 specimen).
South China Sea (Vietnam).
- Scissulina dispar*** (Conrad, 1837)
1 lot (2 specimens).
Hawaiian Isls.
- Scutarcopagia scobinata*** (L., 1758)
1 lot (1 specimen).
Papua New Guinea.
- Family **Semelidae**
- Semele zebuensis*** (Hanley, 1844)
1 lot (1 specimen).
Australia (Lord Howe Isl.).
- Theora lubrica*** Gould, 1861
1 lot (3 specimens).
Sea of Japan (Possjet Bay).
- Family **Psammobiidae**
- Asaphis dichotoma*** (Anton, 1888)
3 lots (5 specimens).
South China Sea (southern Vietnam); Philippines (Luzon Isl.).
- Gari anomala*** (Deshayes, 1855)
1 lot (1 specimen).
No data.
- Gari kasusensis*** (Yokoyama, 1922)
10 lots (24 specimens).
Sea of Japan (Possjet Bay, Peter the Great Bay, Ussuri Bay).
- Gari* sp.**
1 lot (1 specimen).
Australia (Lord Howe Isl.).
- Hiatula atrata*** Reeve, 1857

- 1 lot (1 specimen).
South China Sea (Vietnam).
- Nuttallia commoda* (Yokoyama, 1925)
2 lots (3 specimens).
Sea of Japan (Peter the Great Bay).
- Nuttallia ezonis* (Kuroda et Habe, 1955)
20 lots (52 specimens).
Sea of Japan (Possjet Bay; Peter the Great Bay;
Amur Bay; Ussuri Bay; Nakhodka Bay; Vladimir
Bay); southern Sakhalin; Kuril Isls. (Iturup Isl.).
- Nuttallia obscurata* (Reeve, 1857)
8 lots (23 specimens).
Sea of Japan (Possjet Bay; Amur Bay; Ussuri
Bay; Olga Bay); Southern Primorye (Holocene).

Family Solenidae

- Solen corneus* Lamarck, 1818
10 lots (20 specimens).
South China Sea (Tonkin (Beibu) Gulf); Sea of
Japan (Possjet Bay; Peter the Great Bay; Ussuri
Bay), southern Primorye (Holocene deposits).
- Solen grandis* Dunker, 1861
1 lot (1 specimen).
South China Sea (Tonkin (Beibu) Gulf).
- Solen krusensterni* Schrenck, 1867
17 lots (60 specimens).
Sea of Japan (Possjet Bay; Peter the Great Bay;
Ussuri Bay; Olga Bay).
- Solen* sp.
1 lot (1 specimen).
France.
- Solen vagina* L., 1758
1 lot (2 specimens).
Black Sea.

Family Bernardinidae

- Bernardina bakeri* Dall, 1910
1 lot (many small specimens).
Mexico (27° 52'N, 115° 11'W).
- Bernardina margarita* (Carpenter, 1857)
1 lot (many small specimens).
Mexico (23° 22'N, 109° 25'W).
- Halodakra salmonea* (Carpenter, 1864)
1 lot (many small specimens).

Mexico (27° 12'30"N, 114° 28'50"W).

- Halodakra subtrigona* (Carpenter, 1857)
1 lot (many small specimens).
Mexico (23° 22'N, 109° 25'W).

Family Dreissenidae

- Dreissena polymorpha* (Pallas, 1771) s. l.
2 lots (69 specimens).
Moldova (Dnestr River), Leningradskaya
Territory (Gulf of Finland).
- Dreissena* sp.
1 lot (11 specimens).
Black Sea (Quaternary deposits).

Family Arcticidae

- Arctica islandica* (L., 1767)
1 lot (2 specimens).
Baltic Sea (Kurshskaya Spit).

Family Kelliellidae

- Alveinus ojanus* (Yokoyama, 1927)
2 lots (10 specimens).
Sea of Japan (Ussuri Bay).

Family Trapeziidae

- Coralliophaga coralliophaga* (Gmelin, 1791)
1 lot (1 specimen).
South China Sea (Hainan Isl.).
- Trapezium liratum* (Reeve, 1843)
8 lots (18 specimens).
Sea of Japan (Amur Bay; Ussuri Bay).

Family Glossidae

- Meiocardia vulgaris* (Reeve, 1845)
2 lots (3 specimens).
South China Sea (Siam Gulf); Indonesia.

Family Vesicomysidae

- Calyptogena* sp.
1 lot (4 specimens).
No data.
- Archivesica* sp.
1 lot (1 specimen).
No data.

Family Corbiculidae

Corbicula japonica Prime, 1864

11 lots (102 specimens).
Sea of Japan (Bolshoy Pelis Isl., small lake);
southern Primorye (Ryazanovskoe Lake);
Shkotovka River mouth; Shkotovo Village
(Holocene deposits); southern Sakhalin (Tunaicha
Lake).

Corbicula elatior Martens, 1905

1 lot (164 specimens).
Primorye (Razdolnaya (Suifun) River).

Corbicula elatior var. ***lindholmi*** Kursalova et
Starobogatov, 1972

1 lot (10 specimens).
Primorye (Razdolnaya (Suifun) River).

Family **Pisidiidae**

Amesoda solida (Normand, 1844)

1 lot (3 specimens).
Kirovskaya Territory (Vyatka River).

Amesoda sp.

1 lot (8 specimens).
Moldova (Dnestr River).

Euglesa sp.

2 lots (7 specimens).
Novosibirskaya Territory (Sartlantchik Lake).

Musculium compressum Mousson, 1887

3 lots (25 specimens).
Primorye (lake near Patrokl Bay, Vladivostok;
Bogataya River).

Musculium sp.

1 lot (1 specimen).
Krymskaya Territory (Mysovoe Lake).

Sphaeriastrum rivicola (Lamarck, 1818)

1 lot (1 specimen).
Kirovskaya Territory (Nemda River).

Sphaerium sp.

1 lot (4 specimens).
Krymskaya Territory (Mysovoe Lake).

Family **Veneridae**

Veneridae unidentified

17 lots (36 specimens).
Kenya; France; Australia (Lord Howe Isl.;
north-western part); Papua New Guinea

(Trobriand Isl.; New Britain Isl.); South China
Sea (Vietnam); Philippines (Negros Isl.); USA
(southern Florida); Cuba.

Antigona lamellaris Schumacher, 1817

5 lots (6 specimens).
Australia; South China Sea (Siam Gulf).

Bassina sp.

1 lot (1 specimen).
Australia.

Callithaca adamsi (Reeve, 1863)

12 lots (18 specimens).
Sea of Japan (Possjet Bay; Peter the Great Bay);
Amur Bay; Olga Bay; Kuril Isls. (Kunashir Isl.).

Callista brevisiphonata (Carpenter, 1865)

14 lots (21 specimens).
Sea of Japan (Possjet Bay; Peter the Great Bay);
Vostok Bay).

Callista erycina (L., 1758)

1 lot (1 specimen).
Australia.

Chione marica (L., 1758)

1 lot (1 specimen).
South China Sea (Vietnam).

Chione sp.

1 lot (1 specimen).
Australia (Lord Howe Isl.).

Chione stutchburyi

1 lot (4 specimens).
Australia (Lord Howe Isl.).

Dosinia angulosa (Philippi, 1847)

12 lots (32 specimens).
Sea of Japan (Possjet Bay; Ussuri Bay);
southern Primorye (Holocene deposits).

Dosinia hepatica (Lamarck, 1818)

1 lot (2 specimens).
South Africa (Knysna Lagoon).

Dosinia japonica (Reeve, 1850)

11 lots (21 specimens).
Sea of Japan (Possjet Bay; Peter the Great Bay);
Ussuri Bay).

Dosinia lamellatum (Reeve, 1850)

1 lot (1 specimen).
No data.

- Dosinia orbigny*** (Dunker, 1845)
1 lot (2 specimens).
South Africa (False Bay).
- Dosinia*** sp.
3 lots (9 specimens).
New Zealand (South Isl.); Australia: South China Sea (Vietnam).
- Gafrarium pectinatum*** (L., 1758)
1 lot (2 specimens).
South China Sea (Vietnam).
- Gafrarium tumidum*** Roding, 1798
2 lots (4 lots).
Australia: South China Sea (Vietnam).
- Irus irus*** (L., 1758)
1 lot (1 specimen).
Black Sea.
- Irus ishibashianus*** Kuroda et Habe, 1952
5 lots (8 specimens).
Sea of Japan (Moneron Isl.).
- Lioconcha fastigiata*** (Sowerby, 1851)
1 lot (1 specimen).
South China Sea (Vietnam).
- Liocyma fluctuosa*** (Gould, 1841)
7 lots (15 specimens).
Sea of Japan (Tatarsky Strait); Okhotsk Sea (north-eastern Sakhalin; Tauiskaya Inlet); Kuril Isls. (Shikotan Isl.); Kamchatka (Avacha Bay).
- Meretrix lamarckii*** Deshayes, 1853
2 lots (14 specimens).
South China Sea (Cambodia; Vietnam).
- Meretrix lusoria*** (Roding, 1798)
3 lots (11 specimens).
South China Sea (Vietnam).
- Mercenaria stimpsoni*** (Gould, 1861)
9 lots (13 specimens).
Sea of Japan (Possjet Bay; Peter the Great Bay; Vostok Bay).
- Paphia euglypta*** (Philippi, 1847)
2 lots (2 specimens).
South China Sea (Vietnam); Indonesia.
- Paphia vernicosa*** (Gould, 1861)
2 lots (2 specimens).
South China Sea (Vietnam).
- Paphia undulata*** (Born, 1780)
3 lots (3 specimens).
South China Sea (Siam Gulf).
- Paratapes textile*** (Gmelin, 1791)
2 lots (3 specimens).
Australia.
- Periglypta puerpera*** (L., 1771)
1 lot (1 specimen).
Australia (Great Barrier Reef).
- Pitar madecassinus*** (Fischer-Piette et Delmas, 1967)
1 lot (1 specimen).
South Africa.
- Pitar manillae*** (Sowerby, 1851)
1 lot (2 specimens).
South Africa.
- Pitar subpellucidum*** (Sowerby, 1851)
1 lot (1 specimen).
South China Sea (Vietnam).
- Placamen*** sp.
3 lots (4 specimens).
Australia (Gulf of Carpentaria).
- Protothaca euglypta*** (Sowerby, 1914)
11 lots (39 specimens).
Sea of Japan (Possjet Bay; Peter the Great Bay; Ussuri Bay; Vostok Bay); southern Sakhalin.
- Protothaca jedoensis*** (Lischke, 1874)
14 lots (25 specimens).
Sea of Japan (Possjet Bay; Peter the Great Bay; Ussuri Bay; Moneron Isl.).
- Protothaca staminea*** (Conrad, 1837)
12 lots (45 specimens).
Kuril Isls. (Kunashir and Simushir Isls.); Kamchatka (Kronotsky Bay; Avacha Bay); Commander Isls. (Bering Isl.); USA (California).
- Ruditapes philippinarum*** (Adams et Reeve, 1848)
17 lots (42 specimens).
Sea of Japan (Possjet Bay; Peter the Great Bay; Amur Bay; Ussuri Bay; Vostok Bay); southern Primorye (Holocene deposits); southern Sakhalin; Kuril Isls. (Kunashir Isl.).
- Saxidomus purpuratus*** (Sowerby, 1855)
14 lots (23 specimens).
Sea of Japan (Possjet Bay; Peter the Great Bay;

Ussuri Bay; Vostok Bay).

Sunetta contempta Smith, 1891

1 lot (2 specimens).

South Africa.

Tapes semirugatus (Philippi, 1847)

1 lot (1 specimen).

Australia.

Tapes sp.

1 lot (1 specimen).

South China Sea (Vietnam).

Tapes turgidus (Lamarck, 1818)

1 lot (1 specimen).

South China Sea (Vietnam).

Venus squamosa L., 1758

1 lot (1 specimen).

South China Sea (Vietnam).

Family **Petricolidae**

Petricola carditoides (Conrad)

2 lots (13 specimens).

USA (California).

Order **Myoida**

Family **Myidae**

Cryptomya busoensis (Yokoyama, 1822)

1 lot (1 specimens).

Sea of Japan (Ussuri Bay).

Mya arenaria (L., 1767)

1 lot (2 specimens).

Baltic Sea.

Mya elegans (Eichwald, 1871)

1 lot (1 specimen).

Kamchatka (Karaginsky Isl., Pleistocene deposits).

Mya japonica Jay, 1856

16 lots (38 specimens).

Sea of Japan (Possjet Bay; Peter the Great Bay; Amur Bay; Ussuri Bay); southern Sakhalin; Okhotsk Sea (Tauyskaya Inlet); Kamchatka.

Mya truncata L., 1758

1 lot (1 specimen).

Sea of Japan (Peter the Great Bay).

Mya uzenensis Nomura et Zinbo, 1937

Sea of Japan (Possjet Bay; Peter the Great Bay; Ussuri Bay); Okhotsk Sea (Tauyskaya Inlet); Kamchatka (Avacha Bay).

Family **Aloididae**

Anisocorbula venusta (Gould, 1861)

2 lots (11 specimens).

Sea of Japan (Petrov Isl.; Ussuri Bay).

Corbula sp.

1 lot (2 specimens).

South China Sea (Vietnam).

Potamocorbula amurensis (Schrenck, 1861)

13 lots (128 specimens).

Sea of Japan (Possjet Bay; Ussuri Bay; Amur Bay); southern Sakhalin (Tunaicha Lake); southern Primorye (Holocene deposits)

Solidocorbula erythron (Lamarck, 1818)

3 lots (3 specimens).

Coral Sea; South China Sea (Siam Gulf).

Family **Hiatellidae**

Cyrtodaria kurriana Dunker, 1862

1 lot (1 specimen).

Kamchatka (Avacha Bay).

Hiatella arctica (L., 1767)

15 lots (52 specimens).

Sea of Japan (Peter the Great Bay); Sakhalin Isl.; Okhotsk Sea (Tauskaya Inlet); Kuril Isls. (Iturup Isl.; Yankitcha Isl.); Kamchatka (Avacha Bay); Commander Isls. (Bering Isl.); Bering Sea (57° 00'N, 167° 05'W); USA (California; Alaska).

Panomya arctica (Lamarck, 1818)

16 lots (29 specimens).

Sea of Japan (Possjet Bay; Peter the Great Bay; Amur Bay; Ussuri Bay).

Panomya beringiana Dall, 1917

1 lot (1 specimen).

Kamchatka (Avacha Bay).

Panope abrupta (Conrad, 1849)

11 lots (11 specimens).

Sea of Japan (Possjet Bay; Peter the Great Bay; Amur Bay).

Family **Pholadidae**

Pholadidae unidentified

1 lot (2 specimens).

France.

Barnea candida (L., 1758)

1 lot (3 specimens).

South China Sea (Vietnam).

Barnea dilatata (Souleyet, 1843)

7 lots (18 specimens).

Sea of Japan (Peter the Great Bay, Amur Bay, Ussuri Bay).

Barnea manilensis (Philippi, 1847)

5 lots (7 specimens).

Sea of Japan (Peter the Great Bay, Ussuri Bay).

Nettastomella japonica (Yokoyama, 1920)

1 lot (3 specimens).

Sea of Japan, Tatarsky Strait.

Penitella penita (Conrad, 1837)

4 lots (19 specimens).

Sea of Japan (western Sakhalin): Kuril Isls. (Kunashir Isl.); Kamchatka (Kronotsky Bay); Commander Isls.

Zirfaea crispata (L., 1758)

3 lots (7 specimens).

Sea of Japan (Peter the Great Bay); eastern Kamchatka (Pleistocene deposits); Bering Sea (Commander Isls.).

Family **Teredinidae**

Bankia setacea (Tryon, 1863)

1 lot (1 specimen).

Sea of Japan (Peter the Great Bay).

Subclass **ANOMALODESMACEA**

Order **Pholadomyida**

Family **Lyonsiidae**

Agriodesma navicula (Adams et Reeve, 1850)

15 lots (35 specimens).

Sea of Japan (Peter the Great Bay; Possjet Bay; Ussuri Bay; Moneron Isl.).

Lyonsia arenosa (Moller, 1842)

1 lot (2 specimens).

Sea of Japan (Povorotny Cape).

Lyonsia cucumerina Ivanova in Scarlato, 1981

1 lot (2 specimens).

Kamchatka (Shelikhov Bay).

Lyonsia nuculaniformis Scarlato in Volova et Scarlato, 1980

3 lots (3 specimens).

Sea of Japan (Possjet Bay).

Family **Pandoridae**

Pandora pulchella Yokoyama, 1926

3 lots (4 specimens).

Sea of Japan (Ussuri Bay; Vostok Bay).

Family **Laternulidae**

Laternula limicola (Reeve, 1863)

7 lots (25 specimens).

Sea of Japan (Possjet Bay; Peter the Great Bay; Amur Bay).

Family **Thraciidae**

Thracia itoi Habe, 1961

7 lots (7 specimens).

Sea of Japan (Possjet Bay; Peter the Great Bay; Ussuri Bay; Vostok Bay).

Thracia myopsis Moller, 1842

1 lot (1 specimen).

Sea of Japan.

Family **Clavagellidae**

Brechites sp.

1 lot (1 specimen).

South China Sea (Siam Gulf).

Family **Verticordiidae**

Euciroa sp.

1 lot (5 specimens).

Australia.

Family **Poromyidae**

Poromya castanea Habe, 1952

1 lot (1 specimen).

Sea of Japan.

Family **Cuspidariidae**

Cardiomya ochotensis Scarlato, 1972

1 lot (1 specimen).

Okhotsk Sea (Mordvinova Bay).

Cardiomya okutanii Scarlato, 1972

Catalogue of the Collection of Bivalves in the Zoological Museum, Far East State University

- 1 lot (3 specimens).
Sea of Japan (42° 23' N, 132° 44' E).
- Cardiomya tosaensis*** (Kuroda, 1948)
1 lot (1 specimen).
Southern Kuril Isls.
- Cuspidaria lindbergi batialis*** Scarlato, 1972
1 lot (1 specimen).
Sea of Japan (42° 23' N, 134° 1' E).
- Cuspidaria*** sp.
2 lots (4 specimens).
Pacific Ocean (38° 53' N, 142° 28' E; 38° 56' N, 142° 59' E).
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<Appendix 1>

List of type specimens of bivalve mollusks in the collection of Zoological Museum, Far East State University, Russia

Family **Arcidae**

1. *Anadara (Scapharca) kafanovi* Lutaenko, 1993 (Plate 1, fig. 5)

Lutaenko, 1993, p. 141, text-figs. 1,2

Holotype: N 11661/Bv - 1484, complete shell, South China Sea, Vietnam, Bien-Shon Isl., sandy beach, September 9, 1961, coll. by N.L. Tzvetkova.

Paratype: N 11662/Bv - 1485, one valve, South China Sea, northern Vietnam, beach drift, January 1962, coll. by O.A. Scarlato.

Family **Unionidae**

2. *Nodularia (Magadaninaia) extremalis* Martynov et Tshernyshev, 1992 (plate 1, fig. 3)

Martynov and Tshernyshev, 1992, p. 19, text-figs. 1-3

Holotype: N 10602/Bv - 880 (n), complete shell, Magadanskaya Territory, Ol'sky District, river near Motykleika Bay, September 1969.

Note: In the original publication the museum no. 254 was given in error.

3. *Anemina (Anemina) shadini deflexa* Martynov et Tshernyshev, 1992 (plate 1, fig. 4)

Martynov and Tshernyshev, 1992, p. 19, text-figs. 4, 9

Holotype: N 10670/Bv - 937 (n), complete shell, Primorye, environs of Vladivostok, lake near Basargyn Cape, depth 0,7-1 m, mud, March 27, 1986, coll. by Martynov A.V., A.V. Chernyshev [Tchernyshev].

Note: In the original publication the museum no. 333-A was given in error.

Paratypes: N 10552/Bv - 834 (n), 52 specimens, Primorye, environs of Vladivostok, lake near Basargyn Cape, July 6, 1989, coll. by Ju. N. Nazarov, M.G. Kazykhanova, A.V. Chernyshev;

N 10553/Bv - 835 (n), 12 specimens, Primorye, environs of Vladivostok, lake near Basargyn Cape, June 29, 1989, by Yu. N. Nazarov, M.G. Kazykhanova, A.V. Chernyshev.

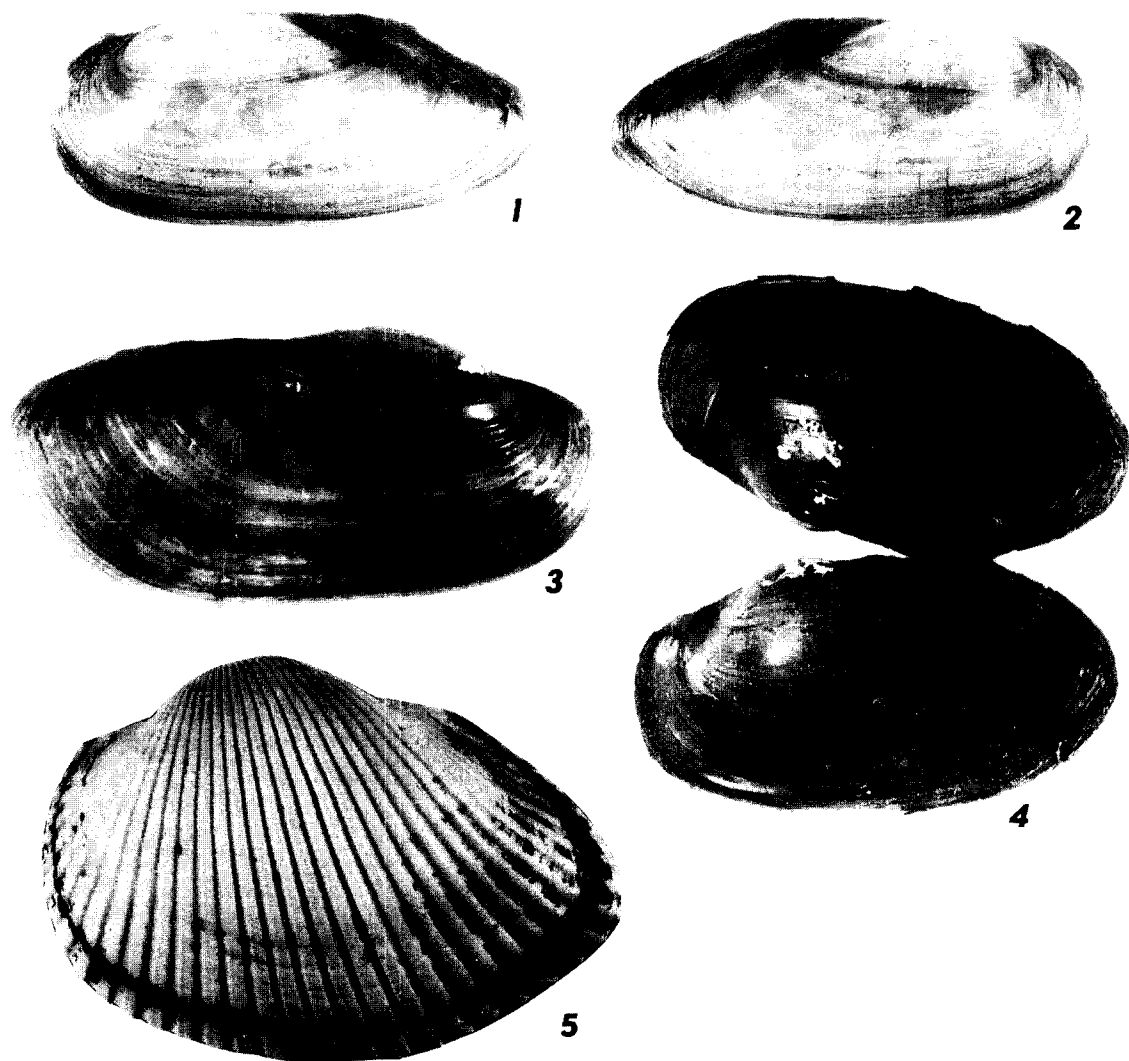
4. *Anemina (Buldowskia) zatrawkini* Martynov et Tshernyshev, 1992 (plate 1, figs. 1, 2)

Martynov and Tchernyshev, 1992, p. 21, text-figs. 5, 6

Holotype: N 10669/Bv - 936 (n), complete shell, Primorye, Nadezhdinsky District, channel near railway station Kiparisovo, depth 1 m, August 3, 1984, coll. by M.G. Kazykhanova and Yu.N. Nazarov.

Note: In the original publication the museum no. 84-A was given in error.

PLATE 1



Figs. 1, 2. *Anemina (Buldowskia) zatrawkini* Martynov et Tshernyshev, 1992. Holotype: left and right valves. Length = 96 mm.

Fig. 3. *Nodularia (Magadaninaia) extremalis* Martynov et Tshernyshev, 1992. Holotype. Length = 37 mm.

Fig. 4. *Anemina (Anemina) shadini deflexa* Martynov et Tshernyshev, 1992. Holotype: left and valves. Length = 95.9 mm.

Fig. 5. *Anadara (Scapharca) kafanovi* Lutaenko, 1993. Holotype. Length = 64.8 mm.