

A Catalogue of the Mollusks of Jeju Island, South Korea

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ABSTRACT

This catalogue is the result of a four-year survey of the mollusks of Jeju Island, the southernmost island in the Republic of Korea. Forty-eight survey stations were visited, with a total of 82 specific localities being sampled. Literature records were also obtained. Local and world distribution of each species is included. This survey reports a total of 1,072 mollusk species and subspecies; 1,015 marine and 57 land and freshwater. There are 812 gastropods, of which 755 are either entirely marine or have marine affinities. The best represented of the marine families are the Pyramidellidae, Trochidae, and Ovulidae. There are 225 bivalves, none being freshwater species, with the Veneridae, Mytilidae, and Arcidae having the largest number of species. Among the smaller classes there are sixteen Cephalopoda, eleven Polyplacophora, and eight Scaphopoda. Compared to mainland Korea, Jeju Island has a rather small terrestrial mollusk fauna and a depauperate freshwater one, with mainly Palearctic connections. The Helixarionidae and Bradybaenidae are the largest terrestrial families. The marine faunal affinities with the neighboring Japonic and Indo-West Pacific provinces are also discussed, revealing that this island's mollusk fauna is a blend of warm-temperate and subtropical-tropical species.

Keywords: Jeju Island, Terrestrial mollusk, Marine mollusk, Molluscan fauna.

INTRODUCTION

Jeju Island, 33.10 to 33.50 N. Lat., 126.10 to 127.0 E. Long, is Korea's largest island with an area of about 1800 km². It is situated about 80 km. south of the Korean peninsula. Because of the influence of the warm Kuroshio Current, the climate is subtropical, with four distinct seasons and an average yearly temperature of 15°C (60°F). In summer, temperatures range from 22°C (72°F) to 26°C (80°F) (Asiatour, 2005). The coastline of this oval-shaped, volcanic island is composed of rocky shore and sand beaches with a few sand tidal flats (Choi *et al.*, 2000). Mud flats are virtually nonexistent.

The ocean around Jeju Island is a complex region, where three major water masses from the north and northwest are mixed. The warm Kuroshio current branches from the northeastward flowing Kuroshio Current and washes the southern coastal area of the island, giving this area somewhat warmer sea temperatures. The prevailing winds from the Pacific Ocean are southeasterly in summer, and also help to raise the temperature of the water. The water temperature is highest in August (26°C) and the lowest in January or February (14°C). During the summer, it shows a maximum temperature of 28.8°C (Ahn, 2002). This blending of warm and cool currents around the island has resulted in an abundance of marine life.

Korea is part of the warm temperate Japonic faunal province (Corpus Christi Museum, 2005), so most of the marine mollusks found in this country also occur in Japan. However, the southern coast of the Korean Peninsula, and especially Jeju Island, are also

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influenced by the warm currents flowing from the southwest, giving the mollusc fauna of this area strong subtropical and tropical characteristics. Thus, there are strong affinities here with the Indo-West Pacific faunal province (Love to Know, 2004). As for the land and freshwater mollusks, Korea is near the eastern end of the Palearctic province (Asian Info, 2000), so many of the species found here have affinities with the mollusks of this faunal region.

MATERIALS AND METHODS

1. Sampling

This catalogue is the culmination of a number of field surveys which have been ongoing since the winter of 2001, when the authors began to enumerate and study the mollusks of the island. There was a need for this type of investigation because, as far as can be determined, there had previously been no comprehensive report on the mollusk fauna of Jeju Island. An attempt was made to sample as many localities as possible with a wide variety of habitats. Mollusks were collected from a total of 48 general survey stations encompassing the coast of the island, as well as inland areas where the land and freshwater fauna was sampled. Marado and Udo were also visited, and the three Udo survey stations are given their specific names because all three beaches are composed of different materials, and their faunas are also somewhat different. Literature references to Udo list no specific localities.

Throughout the survey period several stations were visited on two or more occasions, and many of them contained several specific collecting localities. Therefore the surveys included 51 marine, 25 terrestrial, and 6 freshwater localities, for a total of 82 localities. The map (Fig. 1) shows the location of those stations. Specimens collected are kept either at the Shellfish Aquaculture and Research Laboratory at Cheju National University (CNU) or in the senior author's collection (RGN).

Additional locality records were obtained from a number of sources, the most helpful being the Illustrated Encyclopedia of Flora and Fauna of Korea (Choe, 1992), A Catalogue of Molluscan Fauna in

Korea (Lee and Min, 2002), and (Mollusks in Korea (Min *et al.*, 2004), the most recent and most extensive review of the Korean mollusk fauna. In many cases the locality records from our field research overlap those found in the literature, and most of them were also covered in this survey.

Collecting of marine species was done mainly from the intertidal and upper subtidal zones, and beach driftlines. Samples of beach drift were sorted, and the micromolluscs extracted and identified with the help of a Zeiss dissecting microscope and a handheld 50x magnifier. Land and freshwater mollusks were also collected from a variety of habitats.

A wide variety of publications was used for identification purposes, the most helpful being Korean Mollusks with Color Illustrations (Kwon *et al.*, 2001), Mollusks in Korea (Min *et al.*, 2004), and Marine Mollusks in Japan (Okutani, 2000).

2. Arrangement of data

This catalogue includes not only the systematic list of mollusks reported from Jeju Island but also their island distribution and world distribution. This enables us to make some comments on the faunal provinces represented by those mollusks, and also on the number of species representative of each fauna. The local distribution includes both localities examined by the authors in this survey and also published records. New records for the island are indicated by a caret (^), and include not only the specific locality, or localities, where the species was found but also the literature citation or collection. Many species are quite common throughout the island and have many locality references. Those having twelve or more are simply referred to as being "Widely distributed".

No distinction has been made in the catalogue between the stations covered in this survey and published locality records. This is because one of the aims of this survey is to show the overall distribution of the mollusks recorded from this island. The published localities not covered by this survey, and a map (Fig. 2) shows their location on the island. In most cases, those localities are cited for only one or two species (e.g. Choe, 1992). Furthermore, some

literature references give only a general comment on distribution. Thus, references, such as "Jejudo", are enclosed by quotation marks, with a citation of the relevant publication.

The world distribution records follow a basic pattern. Species which have mainly Japonic affinities are cited by region; eg., "Korea; Japan" the same applies to species having a somewhat disjunct distribution; eg., "Korea; Japan; Philippines". Where there is a clearly defined range of distribution, the extremities of this range, where possible, are given; eg., "Japan to Indo-W. Pacific". In this case, it is understood that Korea is also included.

The systematic classification is based mainly on that used in Mollusks in Korea, which, in turn, is based on that of Higo and Goto (1993). The only major exception is the opisthobranch classification which follows that of Rudman's "Sea Slug Forum" Internet website (Rudman, 2004).

With few exceptions, only fully identified species have been listed. Because of the difficulty in establishing world distribution for specimens identified only to the genus level, such taxa have been omitted. For example, Mollusks in Korea, in a separate section, lists 36 mollusks from Jeju Island which fall into this category - 31 gastropods, 4 bivalves, and one polyplacophoran.

RESULTS

Class: POLYPLACOPHORA

Order: NEOLORICATA

ISCHNOCHITONIDAE

- Lepidozona coreanica* (Reeve, 1847) (Songaksan, Hwasoon, Sagyei-ri (Lee and Hyun, 2002), Hyupjae (RGN)), (Korea; Japan; China; Taiwan)
- Ischnochiton (ischnochiton) boninensis* Bergenhayn, 1933 (Bukchon-ri, Songsan), (Korea; Japan)
- Ischnochiton (Haploplax) comptus* (Gould, 1859) (Songaksan, Hwasoon, Sagyei-ri, Bukchon-ri, Songsan, Udo (Gumullae)), (Japan to Hong Kong)

MOPALIIDAE

- Placiphorella stimpsoni* (Gould, 1859) (Munsom),

(Korea; Japan)

CHITONIDAE

- Rhyssoplax kurodai* (IS. and IM. Taki, 1929) (Songsan, Hyupjae, Bukchon-ri, Udo (Gumullae)), (Korea; Japan)
- Onithochiton hirasei* Pilsbry, 1901 (Sagyei-ri, Udo (Hagosudong), Bukchon-ri, Songsan), (Korea; Japan)
- Acanthopleura japonica* (Lischke, 1873) (Songsan, Hyupjae, Songaksan, Hwasoon, Sagyei-ri, Udo (Hagosudong), Bukchon-ri), (Japan to eastern China)

ACANTHOCHITONIDAE

- Acanthochitona defilippi* (Tapparone-Canefri, 1874) (Songaksan, Hwasoon, Sagyei-ri, Jeju-shi, Bukchon-ri, Songsan), (Korea; Japan)
- Acanthochitona rubrolineatus* (Lischke, 1873) (Songsan, Songaksan, Hwasoon, Sagyei-ri, Hyupjae, Udo (Hagosudong)), (Korea; Japan)
- Acanthochitona achates* (Gould, 1859) (Munsom), (Korea; Japan; E. China)
- Cryptoplax japonica* Pilsbry, 1901 (Songsan, Songaksan, Hwasoon, Bukchon-ri), (Korea; Japan)

CLASS: GASTROPODA

Subclass: EOGASTROPODA

Order: PATELLOGASTROPODA

PATELLIDAE

- Patella flexuosa* Quoy and Gaimard, 1834 (Songsan, Udo (Sanhosa), Sagyei-ri), (Japan to Indo-W. Pacific)

NACELLIDAE

- Cellana grata* (Gould, 1859) (Widely distributed), (Korea; Japan)
- Cellana nigrolineata* (Reeve, 1854) (Widely distributed), (Korea; Japan)
- Cellana toreuma* (Reeve, 1854) (Widely distributed), (Japan to tropical W. Pacific)

LOTTIIDAE

Patelloida saccharina laux (Reeve, 1855) (Widely distributed), (Korea; Japan)

Patelloida pygmaea signatoides (Kuroda and Habe, 1971) (Widely distributed), (Korea; Japan)

Patelloida conulus (Dunker, 1861) (Songaksan, Hamdok, Shinyang), (Korea; Japan)

Lottia (Lottia) dorsuosa (Gould, 1859) (Udo, Chagwido, Songsan, Songaksan, Hwasoon, Sagyei-ri, Bukchon-ri), (Korea; Japan; Taiwan)

Lottia (Lottia) kogamogi Susuki and Okutani, 1994 (Hyupjae, Sagyei-ri, Gimnyeong, Songsan, Sagyei-ri, Jongdal-ri), (Korea; Japan)

^*Lottia (Lottia) Lindbergi* Sasaki and Okutani, 1944 (Hwasoon, Jungmun (RGN)), (Korea; Japan)

Lottia (Lottia) luchuana (Pilsbry, 1901) (Hwasoon, Kwakji, Hamdok, Hagwi), (Japan to tropical Western Pacific)

Lottia (Kikukozara) langfordi (Habe, 1944) (Sehwa, Sagyei-ri, Hwasoon, Supjikoji), (Korea; Japan)

Yayoiacmaea oyamai (Habe, 1955) (Jungmun, Hwasoon, Sagyei-ri, Supjikoji), (Korea; Japan)

Nipponacmaea schrenckii schrenckii (Lischke, 1868) (Seogwipo, Jeju-shi, Hwasoon, Songaksan, Sagyei-ri, Udo (Gumullae)), (Korea; Japan; China)

^*Nipponacmaea schrenckii gloriosa* (Habe, 1944) (Pyosun (Choe, 1992), Hwasoon (Lee and Hyun, 2002), Songsan, Iho (RGN)), (Korea; Japan; China)

Nipponacmaea fuscoviridis (Teremachi, 1949) (Seogwipo, Songsan, Bumsom, Hamdok, Sagyei-ri), (Korea; Japan)

Nipponacmaea concinna concinna (Lischke, 1870) (Widely distributed), (Korea; Japan)

Nipponacmaea concinna radula (Kira, 1961) (Sagyei-ri, Hyupjae), (Korea; S. Japan)

Nipponacmaea concinna teremachii (Kira, 1961) (Songsan, Hwasoon, Sagyei-ri, Hagwi), (Korea; Japan; China)

ACMAEIDAE

Pectinodonta rhyssa (Dall, 1925) (Shinyang), (Korea; S. Japan)

^*Acmaea (Niveotectura) pallida* (Gould, 1859) (Songaksan (Lee and Hyun, 2002)), (Korea; Japan; N.E. Russia)

Subclass: ORTHOGASTROPODA

Superorder: VETIGASTROPODA

HALIOTIDAE

Haliotis (Sulculus) diversicolor (Reeve, 1846)

(Widely distributed), (Japan to Indo-W. Pacific)

Haliotis (Haliotis) madaka (Habe, 1979) (Samyang, Munsom), (Korea; S. Japan)

Haliotis (Haliotis) gigantea (Gmelin, 1791)

(Seogwipo, Songsan, Jeju-shi, Jungmun, (Korea; Japan)

Haliotis (Haliotis) discus (Reeve, 1846) (Seogwipo, Mosulpo, Samyang, Songsan), (Korea; Japan)

SCISSURELLIDAE

Scissurella staminea (A. Adams, 1862) (Hwasoon), (S. Japan to Philippines)

Sukashitrochus carinatus (A. Adams, 1862) (Hwasoon), (Korea; Japan)

FISSURELLIDAE

Emarginula crassicostata (Sowerby II, 1863)

(Supsom, Hwasoon, Sagyei-ri, Songsan), (Japan to Tropical W. Pacific)

Emarginula fragilis (Yokoyama, 1920) (Hwasoon, Shinyang, Sagyei-ri), (Korea; Japan)

Emarginula tosaensis (Habe, 1953) (Hwasoon), (Korea; Japan)

Emarginella incisula (A. Adams, 1852) (Hwasoon, Hyupjae, Kwakji), (SE. Japan to Indonesia)

Emarginella sakuraii (Habe, 1963) (Hwasoon), (Korea; S. Japan)

Tugali decussata (A. Adams, 1852) (Seogwipo, Chagwido, Marado, Jungmun, Songsan, Shinyang, Hwasoon, Sagyei-ri, Munsom, Gangjung, Kwakji), (Korea; Japan)

^*Tugalina (Scelidotoma) gigas* (Martens, 1881)

("North of Cheju" (Choe, 1992)), (Korea; Japan)

Puncturella parvinobilis (Okutani, Fujikura, and Sasaki, 1993) (Hwasoon), (Korea; trough)

Puncturella fastigiata A. Adams, 1853 (Hwasoon),
(Korea; Japan)

Cranopsis pelex A. Adams, 1860 (Songsan,
Hwasoon, Sagyei-ri), (Korea; Japan)

Montfortista oldhamiana (Nevill, 1869) (Songsan,
Hwasoon, Sagyei-ri, Jongdal-ri, Udo (Sanhosa)),
(Korea; S. Japan)

Montfortula pulchra picta (Dunker, 1860) (Sehwa,
Udo, Songsan, Chagwido, Hyupjae, Sagyei-ri,
Songsan), (Korea; S. Japan)

Diodora (Diodora) sieboldi (Reeve, 1850) (Songsan,
Pyosun, Jungmun, Sagyei-ri, Hwasoon, Jongdal-ri),
(Japan to W. Pacific)

Diodora (Elegidion) quadriradiata (Reeve, 1850)
(Songsan, Hwasoon, Jungmun, Hyupjae, Sagyei-ri),
(Japan to Indo-W. Pacific)

Macroschisma sinensis (A. Adams, 1851) (Songsan,
Hwasoon, Sagyei-ri), (Japan to W. Pacific)

Macroschisma dilatata (A. Adams, 1851) (Songsan,
Pyosun), (Korea; Japan)

TURBINIDAE

Liotina (Liotinaria) semiclathratula (Schrenck, 1862)
(Hwasoon), (Japan to Indo-W. Pacific)

Homalopoma nocturnum (Gould, 1861) (Sehwa,
Songsan, Songaksan, Hwasoon, Bukchon-ri,
Munsom, Hamo), (Japan to Indo-W. Pacific)

^ *Homalopoma amussitatum* (Gould, 1861) (Udo
(Sanhosa)) (RGN)), (Korea; Japan)

Homalopoma sangarense (Schrenck, 1857)
(Supjikoji), (Japan to Indo-W. Pacific)

Collonista glareosa (Gould, 1861) (Udo
(Hagosudong), Hamo, Kwakji, Bukchon-ri), (Korea;
Japan)

Collonista amakusaensis Habe, 1960 (Hyupjae,
Keumneung, Hamo, Bukchon-ri), (Korea; S. Japan)

Turbo (Callipoma) excellens Sowerby, 1914
(Munsom (Segisom)), (Korea; Japan)

Turbo (Batillus) cornutus Lightfoot, 1786 (Widely
distributed), (Korea; Japan)

Turbo (Lunella) coronatus coreensis (Recluz, 1853)
(Widely distributed), (Korea; Japan)

Astraliium haematragum (Menke, 1829) (Widely
distributed), (Japan to Philippines)

Bolma (Harisazaea) modesta (Reeve, 1843) (Jeju-shi,
Seogwipo, Shinyang), (Japan to S. China Sea)

Guildfordia triumphans (Philippi, 1841) (Western
Jeju, Hwasoon), (Japan to N. Australia)

Pomaulax japonicus (Dunker, 1844) (Seogwipo,
Sehwa, Jongdal-ri), (Korea; Japan)

Tricolia variabilis (Pease, 1860) (Sagyei-ri,
Hwasoon, Supjikoji), (Japan to Indo-W. Pacific)

Phasianella solida (Born, 1780) (Widely distributed),
(Japan to Indo-W. Pacific)

TROCHIDAE

^ *Chlorostoma argystoma sublaevis* (Pilsbry, 1904)
(Iho, Daepyong (RGN)), (Korea; Japan)

Chlorostoma lischkei Tapparone-Canefri, 1874
(Widely distributed), (Korea; Japan)

^ *Chlorostoma turbinata* (A. Adams, 1853)
(Songsan, Marado, Seogwipo (Choe, 1992),
Songaksan, Hwasoon (Lee and Hyun, 2002),
Jongdal-ri (RGN)), (Korea; Japan)

Chlorostoma xanthostigma A. Adams, 1853 (Widely
distributed), (Korea; Japan; Taiwan)

Omphalius pfeifferi carpenteri (Dunker, 1882)
(Widely distributed) (Korea; Japan)

^ *Omphalius rusticus* (Gmelin, 1791) (Jeju-shi
(Choe, 1992), Sagyei-ri (RGN)), (Korea; Japan
China)

^ *Omphalius nigerrima* (Gmelin, 1791) (Songaksan,
Hwasoon, Sagyei-ri (Lee and Hyun, 2002), Sehwa,
Gimnyeong, Udo (Hagosudong), Iho, Udo
(Sanhosa), Hyupjae, Shinyang, Jongdal-ri, Udo
(Gumullae) (RGN)), (Korea; Japan)

Granata lyrata (Pilsbry, 1890) (Widely distributed),
(Japan to Philippines)

Hybochelus cancellatus orientalis (Pilsbry, 1904)
(Hwasoon), (Korea; S. Japan)

Euchelus atratus (Gmelin, 1791) (Songsan),
(S. Japan to Indo-W. Pacific)

Euchelus rubra (A. Adams, 1853) (Bukchon-ri),
(Japan to W. Pacific)

Euchelus lischkei Pilsbry, 1904 (Sagyei-ri Songsan,
Hwasoon), (S. Japan to Philippines)

Herpetopoma clathratus (A. Adams, 1850) (Kwakji),
(Japan to Indo-W. Pacific; Australia)

- ^*Turcica coreensis* PEASE, 1860 (Seogwipo (*Choe*, 1992)), (Korea; Japan)
- Trochus sacellum rota* (Dunker, 1860) (Widely distributed), (Japan to Indo-W. Pacific)
- Clanculus (Clanculus) margaritarius* (Philippi, 1849) (Jungmun, Songsan, Hwasoon, Hyupjae, Sagyei-ri, Seogwipo), (Japan to Indo-W. Pacific; New Zealand)
- Clanculus (Mesoclanculus) denticulatus* (Gray, 1827) (Jungmun, Songsan, Hwasoon, Sagyei-ri), (S. Japan to W. Pacific; Australia)
- Clanculus (Mesoclanculus) microdon* A. Adams, 1853 (Sehwa, Bumsom, Supsom, Sagyei-ri, Songsan, Hwasoon), (Korea; Japan)
- Eurytrochus cognatus* (Pilsbry, 1903) (Hwasoon, Bukchon-ri), (Korea; Japan Philippines)
- Fossarina picta* A. Adams, 1867 (Hwasoon), (Japan to Indo-W. Pacific)
- Monodonta (Monodonta) labio confusa* Tapparone-Canefri, 1874 (Widely distributed), (Korea; Japan)
- Monodonta (Monodonta) australis* Lamarck, 1822 (Udo (Hagosudong), Iho), (S. Japan to Indo-W. Pacific)
- Monodonta (Monodonta) neritoides* (Philippi, 1849) (Jungmun, Kwakji, Seogwipo, Songsan, Bomok, Hyupjae, Songaksan, Hwasoon, Sagyei-ri, Hamdok), (Korea; Japan)
- Monodonta (Monodonta) perplexa perplexa* (Pilsbry, 1889) (Hwasoon, Seogwipo, Bumsom, Chagwido, Mosulpo, Jungmun, Songaksan, Sagyei-ri, Iho, Hyupjae, Songsan), (Korea; Japan)
- Diloma (Diloma) piperinus* (Philippi, 1849) (Hwasoon), (Korea; S. Japan)
- Cantharidus hirasei* (Pilsbry, 1901) (Sagyei-ri, Bukchon-ri, Udo), (Japan to Indo-W. Pacific)
- Cantharidus japonicus* (A. Adams, 1853) (Jungmun, Seogwipo, Sehwa, Pyosun, Songsan, Songaksan, Sagyei-ri, Udo (Hagosudong), Bukchon-ri, Shinyang), (Korea; Japan)
- Cantharidus jessoensis* (Schrenck, 1863) (Songsan, Gimnyeong, Sagyei-ri, Jongdal-ri), (Korea; N. Japan)
- Cantharidus callichroa* (Philippi, 1850) (Widely distributed), (Korea; Japan)
- Komaitrochus pulcher* Kuroda and IW. Taki, 1958 (Munsom, Hwasoon, Sagyei-ri), (Korea; Japan; Philippines)
- Alcyona ocellata* A. Adams, 1860 (Songsan), (Japan to W. Pacific)
- Stomatella planulata* (Lamarck, 1816) (Hwasoon), (S. Japan to Indo-W. Pacific)
- Stomatolina rubra* (Lamarck, 1822) (Supsom, Songsan, Sagyei-ri, Shinyang, Hwasoon, Munsom), (Japan to SW. Pacific)
- Calliostoma haliarchus* (Melville, 1889) (Sehwa), (Japan to SW. Pacific)
- Calliostoma aculeatum* Sowerby III, 1912 (Songsan, Hwasoon), (Korea; Japan; Taiwan)
- Calliostoma unicum* (Dunker, 1860) (Widely distributed), (Korea; Japan)
- Minolia punctata* A. Adams, 1860 (Hwasoon), (Japan to W. Pacific)
- Lirularia iridescens* (Schrenck, 1863) (Hwasoon), (Korea; N. Japan)
- Lirularia pygmaea* (Yokoyama, 1922) (Hwasoon, Hamo), (Korea; E. Japan)
- Umbonium (Suchium) costatum* (Valenciennes in Kiener, 1838) (Widely distributed), (Korea; Japan)
- Ethminolia stearnsi* (Pilsbry, 1895) (Hwasoon), (Korea; Japan Philippines)
- Conotalopia ornata* (Sowerby III, 1903) (Songsan, Hwasoon, Sagyei-ri), (Korea; Japan)
- Conotalopia mustelina* (Gould, 1861) (Hwasoon, Kwakji, Hamo), (Korea; Japan)
- ^*Conotalopia minima* Golikov, 1967 (Kwakji ("Mike's Seashell Collection" [internet])), (Korea; Japan)

SKENEIDAE

- Teinostoma radiatum* A. Adams, 1863 (Supjikoji, Hwasoon), (Korea; S. Japan)
- Teinostoma lucida* A. Adams, 1863 (Hwasoon), (Korea; W. Japan)
- Conradia perclathrata* Sakurai, 1983 (Supjikoji, Hwasoon), (Korea; W. Japan)

Leucorhynchia caledonica (Crosse, 1867) (Kwakji),
(S, Japan to Tropical W. Pacific)

Lissotesta sobrina (A. Adams, 1861) (Hwasoon,
Supjikoji), (Korea; East Sea)

Munditiella ammonoceras (A. Adams, 1863)
(Hwasoon), (Japan to Indo-W. Pacific)

Dillwynella vitrea Hasegawa, 1997 (Hwasoon),
(Korea; Japan)

Dillwynella planorbis Hasegawa, 1997 (Hwasoon),
(Korea; SW. Japan)

Leptogyropsis inflata Hasegawa, 1997 (Hwasoon),
(Korea; W. Japan)

Superorder: COCCULINIFORMIA

COCCULINIDAE

Coccoligya punctoradiata (Kuroda and Habe, 1949)
(Hwasoon), (Korea; SW. Japan)

Superorder: NERITOPSINA

NERITIDAE

Nerita (Theliostyla) albicilla Linnaeus, 1758
(Jungmun, Hwasoon, Seogwipo, Marado, Seogundo,
Songaksan, Sagyei-ri, Songsan, Shinyang,
Daepyong), (Japan to Indo-W. Pacific)

Nerita (Heminerita) japonica Dunker, 1860 (Widely
distributed), (Japan to W. Pacific)

PHENACOLEPADIDAE

Phenacolepas crenulatus (Broderip, 1834)
(Hwasoon), (Japan to Indo-W. Pacific)

Phenacolepas planata Habe, 1961 (Hwasoon), (S.
Japan to Indo-W. Pacific)

Phenacolepas unguiformis (Gould, 1859) (Hamdok,
Hwasoon, Shinyang, Sagyei-ri, Udo), (Korea;
Japan)

Phenacolepas newtoni (Sowerby III, 1894)
(Hwasoon, Sagyei-ri), (Japan to Indo-W. Pacific)

Cinnalepeta pulchella (Lischke, 1871) (Shinyang,
Jongdal-ri), (Korea; Japan)

HYDROCENIDAE

Georissa japonica Pilsbry, 1900 ("Jejudo" (Min *et al.*, 2004)), (Korea; Japan; Taiwan)

Superorder: CAENOGASTROPODA

Order: ARCHITAENIOGLOSSA

CYCLOPHORIDAE

Cyclophorus herkdotsi von Martens, 1861 (Jeju-shi,
Seogwipo, Shinyang), (Japan and Chinato Indo-W.
Pacific)

Platyrphe minutus quelpartensis (Pilsbry and
Hirase, 1908) ("Jejudo" (Min *et al.*, 2004)),
(Korea)

Cyclotus (Procyclotus) campanulatus von Martens,
1865 ("Jejudo" (Min *et al.*, 2004)), (Korea; Japan;
Indo-W. Pacific)

Nakadaella micron (Pilsbry, 1900) ("Jejudo" (Min *et al.*, 2004)), (Korea; Japan)

SPIROSTOMATIDAE

Spirostoma japonicum japonicum (A. Adams, 1867)
(Jeju-shi, Sangbansan, Hamdok), (Korea; Japan)

ALYCAEIDAE

Chamalycaeus kurodai (Pilsbry and Hirase, 1908)
(Jejudo" Min *et al.*, 2004)), (Korea; Japan)

PUPINIDAE

Pupinella (Pupinopsis) rufa (Sowerby, 1864)
(Jeju-shi, Seogwipo), (Korea; Japan)

DIPLOMMATINIDAE

Arinia chejuensis Kwon and Lee, 1991 ("Jejudo"
(Min *et al.*, 2004)), (Korea)

Palaina (Cylindropalaina) pusilla (von Martens, 1877)
(Jejudo" (Min *et al.*, 2004)), (Korea; Japan)

Diplommatina (Sinica) paxillus (Gredler, 1881)
(Jejudo" (Min *et al.*, 2004)), (Korea; Japan)

Diplommatina (Sinica) changensis (Kwon and Lee,
1991) ("Jejudo" (Min *et al.*, 2004)), (Korea)

Diplommatina (Sinica) chejuensis (Kwon and Lee,
1991) ("Jejudo" (Min *et al.*, 2004)), (Korea)

Order: SORBEOCONCHA

PLANAXIDAE

Fossarus Japonicus (A. Adams, 1861) (Hwasoon),
(Japan to Indo-W. Pacific)

CERITHIIDAE

- Cerithium kobelti* Dunker, 1877 (Songsan, Shinchang, Sagyei-ri, Bukchon-ri, Shinyang, Udo (Gumullae)), (Japan to Indo-W. Pacific)
- Clypeomorus bifasciata* (Sowerby II, 1885) (Seogwipo, Songsan, Jeju-shi, Gimnyeong, Hwasoon, Sagyei-ri, Hyupjae), (SE. Japan to Indo-W. Pacific)
- Rhinoclavis (Proclava) kochi* (Philippi, 1848) (Widely distributed), (Japan to Indo-W. Pacific)
- Argyropyza schepmaniana* MELVILL, 1912 (Hwasoon), (S. Japan to Indo-W. Pacific)
- Bittium glareosum* Gould, 1861 (Songsan, Bukchon-ri), (Japan to Indo-W. Pacific)
- Bittium (Bittium) alutaceum* Gould, 1861 (Hwasoon, Munsom), (S. Japan to Indo-W. Pacific)
- Bittium (Bittium) variegatum* Kuroda and Habe, 1971 (Seogwipo, Bumsom, Songsan, Bukchon-ri), (Korea; Japan)
- Ittibittium parvum parvum* (Gould, 1861) (Hamo, Hwasoon, Bukchon-ri, Kwakji, Songsan), (Japan to Indo-W. Pacific)

DIALIDAE

- Diala varia* A. Adams, 1861 (Songsan, Supjikoji, Hagwi), (Japan to Indo-W. Pacific)
- Diala stricta* Habe, 1960 (Supjikoji), (Japan to Indo-W. Pacific)
- Diala sulcifera* A. Adams, 1862 (Supjikoji), (SE. Japan to Tropical W. Pacific; Mauritius)

LITIOPIIDAE

- Litiopa nipponica* Kuroda and Kawamoto, 1956 (Hwasoon), (Korea; Japan)
- Styliferina goniochila* A. Adams, 1860 (Hwasoon), (S. Japan to Tropical W. Pacific)
- Diffalaba picta* (A. Adams, 1861) (Hwasoon), (Korea; Japan; NE. China)

OBTORTIONIDAE

- Clathrofenella fusca* (A. Adams, 1860) (Supsom), (Japan; Korea; China)
- Clathrofenella perparvulum* (Watson, 1886) (Hwasoon, Supjikoji), (Japan to Indo-W. Pacific)

SCALIOLIDAE

- Scaliola bella* A. Adams, 1860 (Hwasoon), (Korea; Japan)
- Scaliola arenosa* A. Adams, 1862 (Hwasoon), (Korea; Japan)
- Scaliola glareosa* A. Adams, 1862 (Hwasoon), (Korea; Japan)

POTAMIDIDAE

- ^ *Cerithidea rhizophorarum* A. Adams, 1855 (Shinyang, Hamo (RGN)), (Japan to SE. Asia)
- ^ *Cerithideopsis cingulata* (Gmelin, 1791) (Hamo (RGN)), (Japan to Indo-W. Pacific)
- ^ *Cerithideopsis djadjariensis* (K. Martin, 1899) (Songaksan, Sagyei-ri (Lee and Hyun, 2002)), (Japan to SE. Asia)

BATILLARIIDAE

- Batillaria zonalis* (Bruguere, 1792) (Supjikoji), (Japan to Indo-W. Pacific)
- Batillaria multiformis* (Lischke, 1869) (Seogwipo, Mosulpo, Hyupjae, Pyosun, Songsan, Songaksan, Hwasoon, Sagyei-ri, Shinyang, Jongdal-ri), (Korea; Japan)
- Batillaria cumingii* (Crosse, 1862) (Widely distributed), (Korea; Japan)
- Batillaria flectosiphonata* Ozawa, 1996 (Songsan), (Korea; S. Japan)

TURRITELLIDAE

- Neohaustator tsushimaensis* (Kotaka, 1951) ("All around" (Min *et al.*, 2004)), (Korea; Japan)

SILICULARIIDAE

- Tenagodus (Agathirses) armata* (Habe and Kosuge, 1967) (Hwasoon), (Japan to Tropical W. Pacific)
- Tenagodus (Agathirses) cumingii* Morch, 1860 (Bumsom, Sagyei-ri, Hwasoon, Munsom), (Japan to Indo-W. Pacific)

PLESIOTROCHIDAE

- Plesiotrochus actangulus* (Yokoyama, 1924) (Hwasoon, Bukchon-ri), (Japan to Indo-W. Pacific)

LITTORINIDAE

- Littorina brevicula* (Philippi, 1844) (Widely distributed), (Japan to S. China)
Nodilittorina radiata (Souleyet, 1852) (Widely distributed), (Korea; Japan China)
Nodilittorina leucosticta biangulata (von Martens, 1897) (Songsan), (S. Japan to Indo-W. Pacific)
Littoraria (Littorinopsis) intermedia (Philippi, 1846) (Hwasoon), (S. Japan to Indo-W. Pacific)
Peasiella habei Reid and Mak, 1998 (Hamdok, Hwasoon, Supjikoji, Keumneung), (Japan to S. China)

CINGULOPSIDAE

- Eatonina kitanagato* Fukuda, Nakamura, and Yamashita, 1998 (Hwasoon), (Korea; S. Japan)

IRAVADIIDAE

- Iravadia (Pseudonoba) bella* (A. Adams, 1853) (Hwasoon), (Japan to Tropical W. Pacific)
Nozoba lignicola Hasegawa, 1997 (Hwasoon), (Korea; Japan)

ELACHISINIDAE

- Elachisina ziczac* Fukuda and Ekawa, 1997 (Hwasoon, Supjikoji), (Korea; Japan)

ASSIMINEIDAE

- Angustassiminea castanea* (Westerlund, 1883) (Hwasoon), (Korea; Japan)
[^]*Assiminea lutea* A. Adams, 1861 (Seogwipo (*Choe, 1992*)), (NE. Russia to Philippines; Hong Kong)
Assiminea estuarina Habe, 1946 (Hwasoon), (Korea; Japan)
Assiminea hiradoensis Habe, 1942 (Hwasoon), (Korea; S. Japan)
Assiminea bella Kuroda, 1958 (Hwasoon), (Korea; S. Japan)
[^]*Paludinellassiminea japonica* (Pilsbry, 1901) (Pyosun (*Choe, 1992*), Sehwa (RGN), Yongduam (Kwon and Lee 1993)), (Korea; Japan)
Paludinellassiminea stricta (Gould, 1859) (Sagyei-ri, Hwasoon, Udo (Hagosudong), (Korea; S. Japan)

- Paludinellassiminea tanegashimae* (Pilsbry, 1924) (Hwasoon), (Korea; Japan)

TRUNCATELLIDAE

- Truncatella pfeifferi* von Martens, 1860 (Biyangdo), (Korea; Japan)
Truncatella guerinii A. and J. B. Villa, 1841 (Hamdok, Shinyang, Bukchon-ri, Keumneung), (S. Japan to Indo-W. Pacific)

RISSOIDAE

- Cingula matsusimana* (Nomura, 1940) (Hwasoon), (Korea; Japan)
Alvania concinna A. Adams, 1861 ("Jejudo" (Min *et al.*, 2004)), (Korea; Japan)
Alvania plicosa (E. A. Smith, 1875) (Supjikoji, Jungmun), (Korea; Japan)
Alvania circinata A. Adams, 1861 (Hwasoon), (Korea; Japan)
Alvania maya (Yokoyama, 1926) (Sagyei-ri), (Korea; N. Japan)
Alvania ogasawarana (Pilsbry, 1904) (Hwasoon, Supjikoji), (Japan to Tropical W. Pacific)
Merelina tokunagai (Yokoyama, 1927) (Hwasoon, Supjikoji), (Korea; Japan)
Rissoina (Rissolina) plicatula Gould, 1861 (Hwasoon, Bukchon-ri), (Korea; S. Japan)
Rissoina (Rissolina) costulata (Dunker, 1860) (Seogwipo, Songsan, Hyupjae, Hwasoon, Bukchon-ri), (Korea; Japan)
Rissoina (Phosinella) pura Gould, 1861 (Seogwipo, Hamdok, Hwasoon, Bukchon-ri), (Korea; Japan; China)
Rissoina (Phosinella) dunkeriana Kuroda and Habe, 1961 (Hwasoon, Sagyei-ri), (S. Japan to Tropical W. Pacific)
Schwartziella (Pandalosia) ephamilla (Watson, 1886) (Hwasoon, Sagyei-ri, Hyupjae), (Japan to Tropical W. Pacific)

BARLEEIDAE

- Barleecia angustata* Pilsbry, 1901 (Songsan, Supjikoji), (Korea; Japan)

Barleeia calcarea Kay, 1979 (Supjikoji), (Korea; SE. Japan; Hawaii)

Barleeia trifasciata Habe, 1960 (Supjikoji), (Korea; Japan)

Barleeia simplex (Smith, 1875) (Supjikoji), (Korea; W. Japan)

Amphithalamus fulcra (Laseron, 1956) (Supjikoji), (Korea; Japan (Brownish Form)); S. Japan (Yellowish Form)

CAECIDAE

Brochina glabella (A. Adams, 1868) (Hwasoon, Supjikoji), (Japan to Tropical W. Pacific)

VITRINELLIDAE

Vitrinella diaphana (A. Adams, 1863) (Hwasoon), (Korea; S. Japan)

Pseudoliotina pulchella (Dunker, 1860) (Seogwipo, Bukchon-ri), (Korea; Japan)

TORNIDAE

Tornus carinatus (A. Adams, 1863) (Hwasoon), (Korea; S. Japan)

Pygmaeorota duplicata (Lischke, 1872) (Hwasoon, Supjikoji), (Korea; Japan)

Pygmaeorota choshiensis Habe, 1961 (Hwasoon), (Korea; Japan)

PLEUROCERIDAE

Semisulcospira libertina (Gould, 1859) (Andok Valley, W. of Beophwan, Seogwipo, Yongmeori Coast, Hwasoon), (E. Asia)

STROMBIDAE

^ *Doxander vittatus japonicus* (Reeve, 1851) (Jungmun (RGN)), (Korea; Japan)

HIPPONICIDAE

Hipponix conica (Schumacher, 1817) (Widely distributed), (Japan to Indo-W. Pacific)

Hipponix acuta (Quoy and Gaimard, 1835) (Hwasoon, Songsan, Sagyei-ri), (S. Japan to W. Pacific)

Antisabia foliacea (Quoy and Gaimard, 1835)

(Kwakji, Iho, Udo (Sanhosa), Hamdok, Pyosun, Hyupjae, Gimnyeong, Songsan, Sagyei-ri, Shinyang, Jongdal-ri), (Japan to Indo-W. Pacific)

Pilosabia trigona (Gmelin, 1791) (Songsan, Sagyei-ri), (Japan to Indo-W. Pacific)

Cheilea cepacea (Broderip, 1834) (Shinyang), (SE. Japan to Indo-W. Pacific)

VANIKORIDAE

Berthais egregia (A. Adams, 1863) (Hwasoon), (Korea; Japan)

Caledoniella montrouzeri Souverbie, 1869 (Hwasoon), (S. Japan to Indo-W. Pacific)

HALOCERATIDAE

^ *Haloceras japonicus* Okutani, 1964 (Songsan (Lee and Min 2002)), (W. Japan; W. North America)

CAPULIDAE

Lippistes helicoides (Gmelin, 1791) (Munsom, Songsan, Hwasoon, Seogwipo, Munsom), (Japan to Indo-W. Pacific)

Capulus badius Dunker, 1882 (Hwasoon, Supjikoji, Sagyei-ri), (Korea; Japan Gulf of Aqaba)

Capulus dilatatus A. Adams, 1860 (Seogwipo, Songsan), (Korea; Japan; Taiwan)

Capulus kawamurai Habe, 1992 (Hwasoon), (Korea; W. Japan)

Trichamathina nobilis (A. Adams, 1867) (Songsan), (Korea; N. Japan)

CALYPTRAEIDAE

Calyptrea yokoyamai Fujita, 1929 (Songsan), (Korea; Japan)

Calyptrea sagaguchi Kuroda and Habe, 1961 (Songsan, Hwasoon), (Korea; W. Japan)

^ *Crepidula (Crepidula) onyx* Sowerby I, 1824 (Songsan (Choe, 1992)), (Introduced (N. America))

Crepidula (Bostrycapulus) gravispinosus Kuroda and Habe, 1950 (Widely distributed), (Korea; Japan; Taiwan)

XENOPHORIDAE

- Xenophora japonica* Kuroda and Habe, 1971
(Hwasoon), (Japan to Philippines)
Xenophora (Onustus) exuta (Reeve, 1842
(Hwasoon), (Japan to Indo-W. Pacific)

VERMETIDAE

- Vermetus renisectus* (Carpenter, 1857) (Udo
(Sanhosa), Songsan, Hwasoon), (Korea; Japan)
Vermetus tokyoensis Pilsbry, 1895 (Songsan, Udo
(Sanhosa), Hyupjae, Hwasoon), (Korea; Japan)
Vermetus vitreus Kuroda and Habe, 1971
(Hwasoon, Sagyei-ri), (Korea; SW. Japan)
Dendropoma planorbis (Dunker, 1860) (Hwasoon),
(S. Japan to Tropical W. Pacific)
Petalococonchus keenae Hadfield and KAY, 1972
(Hwasoon), (S. Japan to Tropical W. Pacific)
Serpulorbis imbricatus (Dunker, 1860) (Widely
distributed), (Korea; Japan; China)

CYPRAEIDAE

- Staphylaea (Staphylaea) staphylaea* (Linnaeus, 1758)
(Munsom, Songsan). (SW. Japan to Indo-W.
Pacific)
Staphylaea limacina (Lamarck, 1810) (Songsan
Seogwipo, Munsom). (SW. Japan to Indo-W.
Pacific)
Luria isabella (Linnaeus, 1758) (Hwasoon,
Munsom). (SW. Japan to Indo-W. Pacific)
Adusta onyx (Linnaeus, 1758) (Munsom), (Japan to
Philippines)
Palmadusta artuffeli (Jousseaume, 1876) (Seogwipo,
Songsan, Bumsom, Chagwido, Munsom, Udo
(Sanhosa), Shinyang, Hwasoon, Sagyei-ri), (Korea;
Japan)
Purpuradusta gracilis (Gaskoin, 1848) (Widely
distributed). (Japan to Indo-W. Pacific)
Erosaria erosa (Linnaeus, 1758) (Udo (Sanhosa),
Songsan, Seogwipo, Munsom), (SW. Japan to
Indo-W. Pacific)
Erosaria miliaris (Gmelin, 1791) (Hwasoon,
Sagyei-ri, Munsom). (SW. Japan to Tropical W.
Pacific)

- Erosaria boivinii* (Kiener, 1843) (Udo (Hagosudong),
Udo (Sanhosa), Sagyei-ri). (SW. Japan to Indo-W.
Pacific)
Erosaria labrolineata (Gaskoin, 1849) (Munsom,
Songsan, Sagyei-ri). (SW. Japan to Indo-W.
Pacific)
Erosaria helvola (Linnaeus, 1758) (Jungmun,
Pomson, Supsom, Munsom, Chagwido, Udo
(Sanhosa), Songsan, Sagyei-ri). (Japan to Indo-W.
Pacific)
Ravitrona caputserpentis (Linnaeus, 1758) (Songsan,
Sagyei-ri). (Japan to Indo-W. Pacific)
Monetaria (Ornamentaria) annulus (Linnaeus, 1758)
+ *Monetaria (Monetaria) moneta* (Linnaeus, 1758)
(Hybrid) (Songsan). (Japan to Indo-W. Pacific)
Lyncina (Ponda) carneola (Linnaeus, 1758)
(Munsom), (Japan to Indo-W. Pacific)
Lyncina (Mystaponda) vitellus (Linnaeus, 1758)
(Bumsom, Supsom, Munsom, Chagwido, Marado,
Hwasoon, Sagyei-ri, Songsan). (SW. Japan to
Indo-W. Pacific)

OVULIDAE

- Habuprionovolva aenigma* (Azuma and Cate, 1971)
(Munsom), (Japan to Indo-W. Pacific)
Habuprionovolva basilica Cate, 1978 (Munsom),
(Japan to Indo-W. Pacific)
Testudovolva nebula (Azuma and Cate, 1971)
(Munsom), (Japan to S. China Sea)
Prionovolva brevis (Sowerby I, 1828) (Munsom).
(Japan to Australia)
Prionovolva wilsoniana (Cate, 1973) (Munsom),
(Japan to Philippines)
Prionovolva bulla (Adams and Reeve, 1848)
(Munsom), (Japan to S. China Sea)
Pseudosimnia (Diminovula) caledonica (Crosse, 1872)
(Munsom), (Korea; New Caledonia)
Pseudosimnia (Diminovula) perilla (Cate, 1973)
(Munsom), (Korea; Thailand)
Pseudosimnia (Diminovula) whiteworthi Cate, 1973
(Munsom), (Japan to Australia)
Pseudosimnia (Inflatovula) culmen Cate, 1973
(Munsom), (Korea; Japan; China)

- Cuspivolva allynsmithi* Cate, 1978 (Munsom), (Korea; Japan)
- Cuspivolva tigris* Yamamoto, 1971 (Munsom, Oedolgae, Bumsom), (Korea; W. Japan)
- Crenavolva (Cuspivolva) cuspis* Cate, 1973 (Munsom), (Japan to Philippines)
- Crenavolva (Cuspivolva) myrakeenae* (Azuma and Cate, 1971) (Munsom), (Korea; Japan)
- Aperiovula takei* Cate, 1973 (Munsom), (Korea; Japan)
- Phenacovolva (Phenacovolva) rosea rosea* (A. Adams, 1855) (Seogwipo, Bumsom, Munsom, Supsom), (Japan to Indo-W. Pacific)
- Phenacovolva (Phenacovolva) lahainaensis* (Cate, 1969) (Munsom), (Korea; Japan; Hawaii)
- Phenacovolva (Pellasimnia) iuprocera* (Azuma and Cate, 1971) (Munsom), (Japan to N. Australia)
- Phenacovolva (Pellasimnia) pseudogracilis* Cate and Azuma, 1973 (Munsom), (Korea; Japan)
- Phenacovolva (Turbovula) brevirostris* (Schumacher, 1817) (Munsom), (Japan to Taiwan, Philippines, Hawaii)
- Phenacovolva (Turbovula) fusula* Cate and Azuma, 1973 (Munsom), (Korea; Japan)
- Phenacovolva (Turbovula) dancei* Cate, 1973 (Segisom, Munsom), (Korea to Indo-W. Pacific)
- Phenacovolva (Turbovula) hirasei* (Pilsbry, 1913) (Munsom), (S. Japan; Philippines; S. Africa)
- Phenacovolva naccoyi* (Tenison-Woods, 1878) (Munsom), (Korea; Australia)
- Phenacovolva nectarea* (Iredale, 1930) (Munsom), (Korea; Australia, E. Indian Ocean)
- Phenacovolva poppei* (Fehse, 2002) (Munsom, Bumsom), (Korea; Philippines; E. Africa)
- Phenacovolva (Calcarovula) longirostrata* (Sowerby, 1828) (Munsom), (Japan to Indo-W. Pacific)
- Phenacovolva (Calcarovula) tokioi* Cate, 1973 (Munsom), (Japan to Indo-W. Pacific)
- Volva volva habei* Oyama, 1961 (Gangjung), (Korea; Japan)

TRIVIIDAE

- Trivia (Trivirostra) oryza* (Lamarck, 1811) (Sagyei-ri), (Japan to Tropical W. Pacific)

- Trivirostra pellucidula* (Reeve, 1846) (Hwasoon), (Japan to W. Pacific)
- Proterato (Sulcerato) callosa* (Adams and Reeve, 1850) (Jungmun, Hyupjae), (Korea; Japan)
- Proterato (Sulcerato) pura* Kuroda and Habe, 1971 (Hwasoon), (Korea; Japan)

VELUTINIDAE

- Lamellaria setoensis* Habe, 1944 (Jeju-shi, Songsan, Hwasoon), (Korea; Japan)
- Velutina (Velutella) plicatilis cryptospira* Middendorff, 1847 (Hwasoon, Munsom), (Korea; Japan)

NATICIDAE

- Euspira fortunei* (Reeve, 1855) (Ojo-ri (RGN)), (Korea; S. Japan; China)
- Polinices peselephanti* (Link, 1807) (Hwasoon, Sagyei-ri, Shinyang, Songsan), (S. Japan to Indo-W. Pacific)
- Polinices sagamiensis* Pilsbry, 1904 (Jungmun, Sagyei-ri, Songsan), (Japan to Philippines)
- Glossaulax didyma didyma* (Röding, 1798) (Hwasoon, Hamdok, Kwakji, Udo (Hagosudong), Pyosun, Sagyei-ri, Shinyang, Jongdal-ri), (Japan to Indo-W. Pacific)
- Glossaulax vesicalis* (Philippi, 1849) (Hwasoon, Songsan, Sagyei-ri), (Korea; Japan)
- Mamilla melanostoma* (Gmelin, 1791) (Songsan), (S. Japan to Indo-W. Pacific)
- Mamilla kurodai* IW. Taki, 1943 (Jungmun, Hwasoon), (Korea; Japan)
- Mamilla simiae* (Deshayes, 1838) (Hwasoon, Songsan), (Japan to Indo-W. Pacific)
- Mamilla mammata* (Röding, 1798) (Hwasoon), (Japan to Indo-W. Pacific)
- Mamilla sebae* (Recluz, 1844) (Hwasoon, Jungmun), (S. Japan to Indo-W. Pacific)
- Natica gualtieriana* Recluz, 1844 (Jungmun, Hwasoon, Songsan), (Japan to Indo-W. Pacific)
- Naticarius concinnus* (Dunker, 1860) (Seogwipo, Munsom, Songsan, Sagyei-ri, Hwasoon), (Korea; Japan)

Naticarius alapapilionis (Röding, 1798) (Jungmun, Hamdok, Hwasoon, Hyupjae), (Japan to Indo-W. Pacific)

Tanea areolata (Recluz, 1844) (Supsom), (S. Japan to Indo-W. Pacific)

Tanea euzona euzona (Recluz, 1844) (Songsan), (Japan to Indo-W. Pacific)

Tanea sagittata (Menke, 1843) (Hwasoon), (Japan to Australia; New Zealand)

Sinum javanicum Gray in Griffith and Pidgeon, 1834 (Hwasoon, Songsan), (Japan to Indo-W. Pacific)

Eunaticina papilla papilla (Gmelin, 1791) ("Jejudo" (Min *et al.*, 2004)), (Japan to Indo-W. Pacific)

Eunaticina papilla Lamarckiana (Recluz, 1843) (Hwasoon, Jungmun), (Korea; Japan; Vietnam)

FICIDAE

Ficus subintermedia (D'Orbigny, 1852) (E. of Songsan, Hwasoon, Songsan), (Japan to Tropical W. Pacific)

TONNIDAE

Tonna luteostoma Kuster, 1857 (E. of Songsan), (Japan to W. Pacific; New Zealand)

Tonna chinensis magnifica (Sowerby, 1904) (Seogwipo), (Korea; E. and S. China Sea)

CASSIDAE

Phalium (Bezoardicella) flammiferum (Röding, 1798) (Jungmun (RGN)), (Korea; Japan; Taiwan)

Semicassis bisulcata bisulcata (Schubert and Wagner, 1829) (E. of Songsan, Hwasoon), (S. Japan to Indo-W. Pacific)

RANELLIDAE

Cymatium (Monoplex) parthenopeum echo Kuroda and Habe, 1961 (E. of Songsan, Seogwipo, Bumsom, Supsom, Songsan, Munsom), (S. Japan to Indo-W. Pacific Atlantic)

Cymatium (Monoplex) comptum (A. Adams, 1855) (Munsom (Segisom)), (S. Japan to Indo-W. Pacific; Atlantic)

Charonia lampas sauliae (Reeve, 1844) (E. of Songsan, Seogwipo, Udo (Sanhosa), Hwasoon, Munsom), (Japan to Philippines)

Charonia lampas macilenta Kuroda and Habe, 1961 (Songsan), (Korea; W. Japan)

BURSIDAE

Bursa lamarckii (Deshayes, 1853) (Munsom), (S. Japan to Indo-W. Pacific)

ATLANTIDAE

Atlanta peroni Lesueur, 1817 (Hwasoon), (Kuroshio and other warm currents)

Atlanta turriculata D'Orbigny, 1850 (Hwasoon), (Kuroshio and other warm currents)

Atlanta fusca Souleyet in Eydoux and Souleyet, 1852 (Hwasoon), (Kuroshio and other warm currents)

Atlanta inflata Souleyet in Eydoux and Souleyet, 1852 (Hwasoon), (Kuroshio and other warm currents)

Atlanta inclinata Souleyet in Eydoux and Souleyet, 1852 (Hwasoon), (Kuroshio and other warm currents)

Atlanta lesueuri Souleyet in Eydoux and Souleyet, 1852 (Hwasoon), (Kuroshio and other warm currents)

Atlanta rosea Souleyet in Eydoux and Souleyet, 1852 (Hwasoon), (Kuroshio and other warm currents)

PTEROTRACHEIDAE

Pterotrachea coronata Forskal, 1775 (Munsom), (Kuroshio and other warm currents)

TRIPHORIDAE

Viriola tricincta (Dunker, 1860) (Seogwipo (Jungbang Waterfall area), Bukchon-ri, Hwasoon, Daepyong), (Japan to Indo-W. Pacific)

Hypotriphora sangamiensis Kuroda and Habe, 1971 (Seogwipo (Jungbang Waterfall area)), (Korea; Japan)

Inella japonica (Kuroda and Kosuge, 1963) (Songsan), (Korea; Japan)

Isotriphora kurodai Kosuge, 1962 (Bukchon-ri, Hwasoon, Sagyei-ri, Songsan, Hwasoon), (Korea; S. Japan)

Mastonia cingulifera (Pease, 1860) (Hwasoon, Songsan), (Japan to Indo-W. Pacific)

Mesophora fusca (Dunker, 1860) (Seogwipo (Jungbang Waterfall area)), (Japan to Indo-W. Pacific)

Triphora iniqua (Jousseaume, 1898) (Seogwipo (Jungbang Waterfall area), Hwasoon), (S. Japan to Indo-W. Pacific)

Triphora millepunctata (Kosuge, 1962) (Munsom (Segisom)), (Korea; Japan)

Triphora thetis (Hedley, 1899) (Bukchon-ri, Hwasoon), (S. Japan to Tropical W. Pacific)

Triphora turricula (Hervier, 1897) (Hwasoon), (Japan to Indo-W. Pacific)

Triphora multigyrata (Yokoyama, 1922) (Songsan, Hyupjae, Kwakji, Supjikoji), (Korea; Japan)

Triphora otsuensis (Yokoyama, 1920) (Bukchon-ri), (Korea; Japan; Philippines)

Triphora granulata (Adams and Reeve, 1850) (Supjikoji), (Japan to Indo-W. Pacific)

Triphora confusa (Kosuge, 1963) (Songsan, Hwasoon, Bukchon-ri), (Korea; Japan)

Triphora undata Kosuge, 1962 (Hwasoon), (Korea; S. Japan)

Cautor maculosus macmichaeli Kosuge, 1961 ("Jejudo" (Min *et al.*, 2004)), (Korea; Japan)

Iniforis fusiformis (Kosuge, 1961) (Bukchon-ri), (S. Japan to Indo-W. Pacific)

Iniforis alba (Kosuge, 1961) (Bukchon-ri, Hwasoon), (Korea; S. Japan)

CERITHIOPSIDAE

Cerithopsis subreticulata (Dunker, 1859) (Hwasoon, Bukchon-ri), (Korea; Japan)

Cerithopsis marileutes (Melville and Standen, 1896) (Supjikoji, Hwasoon, Keumneung), (Japan to Indo-W. Pacific)

Horologia bipartita Laseron, 1955 (Sagyei-ri, Hwasoon), (Korea; S. Japan)

Notoseila morishimai Habe, 1970 (Hwasoon, Bukchon-ri, Hyupjae), (Japan to E. China Sea)

Paraseila japonica Habe, 1970 (Bukchon-ri), (Korea; Japan)

Ataxocerithium abnormale (Sowerby, 1903) (Songsan, Kwakji, Hwasoon), (Korea; Japan)

JANTHINIDAE

Janthina janthina (Linnaeus, 1758) (Songsan), (Kuroshio current; worldwide)

Janthina (Violetta) exigua Lamarck, 1816 (Hwasoon, Sagyei-ri, Songsan, Udo), (Kuroshio current; worldwide)

Janthina (Violetta) umbilicata D'Orbigny, 1840 (Songsan), (Kuroshio current; worldwide)

Recluzia lutea (Bennett, 1840) (Sagyei-ri), (Kuroshio current; worldwide)

EPITONIIDAE

Nodiscala matajiroi Kuroda, 1954 (Songsan), (Korea; Japan)

Gyroscala (Pomiscala) perplexa (Pease, 1867) (Jungmun, Sagyei-ri), (Korea; Japan; Southward in worldwide warm waters; Mediterranean Sea)

Elegantiscala fimbriatula Masahito, Kuroda, and Habe, 1971 (Hwasoon), (Korea; Japan)

Elegantiscala rugosa (Kuroda and Ito, 1961) (Hwasoon), (Korea; Japan; Philippines)

Amaea (Amaea) thielei (Boury, 1913) (Munsom), (Korea; Japan)

Amaea (AMAEA) ogotai Masahito and Habe, 1975 (Hwasoon), (Korea S. Japan)

Fragiscala tosaensis Azuma, 1962 (Hwasoon), (Korea S. Japan)

Epitonium syoichiroi Masahito and Habe, 1976 (Hwasoon, Sagyei-ri), (Korea; SW. Japan; S. Africa)

Epitonium (Asperiscala) spyridon Kilburn, 1985 (Hwasoon), (Korea; S. Japan; Taiwan; Mozambique)

Epitonium (Kiiscala) laxatum (Sowerby II, 1844) (Hwasoon), (Korea; W. Japan; Philippines to Red Sea)

Acrilla acuminata (Sowerby II, 1844) (Songsan, Shinyang), (S. Japan; Indonesia)

Solvaclathrus hyalinum (Sowerby II, 1844)
(Hwasoon), (Japan to Indo-W. Pacific)

Laeviscalca angusta (Dunker, 1861) (Hwasoon), (E. Japan to Philippines)

Laeviscalca gracile (Sowerby II, 1844) (Hwasoon, Sagyei-ri), (Japan to Taiwan)

Globiscalca bullatum (Sowerby II, 1844) (Hwasoon), (Japan to Indo-W. Pacific)

Nipponoscalca aureomaculata Masahito and Habe, 1973 (Hwasoon), (Korea; SE. Japan)

Spiniscalca aculeata (Sowerby II, 1844) (Hwasoon), (Japan to Indo-W. Pacific)

Spiniscalca tenuicostata (Sowerby II, 1844)
(Hwasoon), (Japan to W. Pacific)

Spiniscalca vigintifoliata Masahito, Kuroda, and Habe, 1971 (Hwasoon, Songsan), (Korea; Japan)

Spiniscalca japonica (Dunker, 1861) (Seogwipo, Songsan, Hwasoon), (Korea; Japan)

Spiniscalca casta (Sowerby, 1887) (Jungmun, Hwasoon), (Korea; Japan)

Cinctiscalca eusculpta (Sowerby III, 1903)
(Hwasoon), (Korea; Japan)

Cinctiscalca eximiella Masahito, Kuroda, and Habe, 1971 (Hwasoon), (Korea; Japan)

Cinctiscalca yamakawai (Yokoyama, 1922)
(Hwasoon), (Korea; Japan)

Cinctiscalca pallidizonata Masahito, Kuroda, and Habe, 1971 (Songsan), (Korea; Japan)

Depressiscalca aurita (Sowerby II, 1844) (Pyosun, Shinyang), (Japan to W. Pacific)

Papyriscalca harimaense Makiyama, 1924 (Shinyang), (Korea)

ACLIDIDAE

Aclis angulifera (Yokoyama, 1922) (Hwasoon), (Korea; Japan)

EULIMIDAE

Eulima bifascialis (A. Adams, 1863) (Hwasoon), (Japan to E. China Sea)

Eulima lacca Kuroda and Habe, 1971 (Supjikoji), (Korea; Japan)

Eulima maria (A. Adams, 1861) (Hwasoon, Songsan), (Japan to E. China Sea)

Eulima unilineata (Adams and Reeve, 1850)
(Hwasoon), (S. Japan to Philippines)

Eulimitra metcalfei (A. Adams, 1853) (Hwasoon), (Japan to Tropical W. Pacific)

Eulimitra vineta (A. Adams, 1863) (Hwasoon, Supjikoji), (Korea; S. Japan)

Melanella martini (A. Adams, 1854) (Hwasoon), (Japan to Indo-W. Pacific)

Melanella grandis (A. Adams, 1854) (Songsan, Hwasoon), (Korea; Japan)

Melanella tortuosa (A. Adams and Reeve, 1860) (Songsan), (Korea; Japan)

Melanella teramachii Habe, 1952 (Supjikoji), (Korea; E. Japan)

Melanella chypeastericola (Habe, 1976) (Hwasoon), (Korea; S. Japan)

Melanella peronellicola (Kuroda and Habe, 1950) (Hwasoon), (Korea; Japan)

Melanella major (Sowerby, 1834) (Hwasoon), (S. Japan to Tropical Pacific)

Vitreobalcis astropectinicola (Kuroda and Habe, 1950) (Supjikoji, Hwasoon), (Korea; Japan)

Vitreobalcis temnopleuricola Fujioka and Habe, 1983 (Bukchon-ri), (Korea; S. Japan)

Vitreobalcis langfordi (Dall, 1925) (Hwasoon), (Korea; Japan)

Curveulima komaii (Habe, 1950) (Supjikoji), (Korea; S. Japan)

Curveulima flavipunctata Habe, 1961 (Hwasoon), (Korea; S. Japan)

Parvioris fulvescens (A. Adams, 1853) (Hwasoon), (S. Japan to Indo-W. Pacific)

Lentigobalcis lentiginosa (A. Adams, 1861)
(Hwasoon, Supjikoji), (Japan; China)

Lentigobalcis amamiensis Habe, 1961 (Hwasoon, Supjikoji), (Korea; S. Japan)

Mucronalia subula A. Adams, 1863 (Supjikoji), (Korea; Japan)

Stilifer akahitode Habe and Masuda, 1990 (Bumsom, Munsom), (Korea; Japan)

Pelseneeria castanea (Dall, 1925) (Hwasoon), (Korea; Japan)

MURICIDAE

- ^ *Haustellum rectirostris* (Sowerby II, 1841)
(Seogwipo (Choe, 1992)), (S. Japan to Philippines)
- Ceratostoma burnetti* (Adams and Reeve, 1850)
("Jejudo" (Min *et al.*, 2004)), (Korea; Japan)
- Ceratostoma fourrieri* (Crosse, 1861) (Seogwipo,
Bumsom, Supsom, Munsom, Chagwido,
Songaksan), (Korea; Japan)
- Ceratostoma rorifluum* (Adams and Reeve, 1850)
(Hwasoon, Jungmun, Kwakji, Hyupjae, Pyosun,
Songaksan, Sagyei-ri, Gimnyeong, Udo (Sanhosa),
Shinyang, Songsan), (Korea; Japan)
- Ceratostoma inornatum* (Recluz, 1851) (Songsan,
Hyupjae), (Korea; Japan)
- Pteropurpura (Ocinebrellus) adunca adunca* (Sowerby
II, 1834) (Seogwipo), (Korea; Japan; Sakhalin)
- Lataxiena fimbriata* (Hinds, 1844) (Songsan), (Japan
to Indo-W. Pacific)
- Ergalatax contracta* (Reeve, 1846) (Widely
distributed), (Japan to Indo-W. Pacific)
- Maculotriron serriale* (Deshayes in Laborde, 1834)
(Songsan), (S. Japan to Indo-W. Pacific)
- Morula (Morula) iostoma* (Reeve, 1844) (Munsom
(Segisom)), (Korea; E. Japan; W. Indian Ocean)
- Morula (Habromorula) spinosa* (H. and A. Adams,
1853) (Munsom (Segisom)), (Japan to Indo-W.
Pacific)
- Mancinella echinata* (Blainville, 1832) (Supsom),
(Japan to Tropical Pacific)
- Thais (Thaisella) gradata* (Jonas, 1846) (Songsan),
(Japan to CENT. Indo-W. Pacific; Australia)
- Thais (Reisha) bronni* (Dunker, 1860) (Widely
distributed), (Korea; Japan; China)
- Thais (Reisha) clavigera* (Kuster, 1860) (Widely
distributed), (Japan to W. Pacific)
- Thais (Reisha) luteostoma* (Holten, 1803) (Jeju-shi,
Seogwipo, Mosulpo, Sehwa, Songsan, Pyosun,
Munsom, Sagyei-ri, Hwasoon), (Japan to SE. Asia)
- Coralliophila morishimai* Kuroda and Shikama, 1966
(Munsom (Segisom)), (Korea; SE. Japan; East Sea
(W. Part))
- Coralliophila rubrococcinea* Melville and Standen,
1901 (Seogwipo), (Japan to Indo-W. Pacific)

Coralliophila abnormis (E. A. Smith, 1879)
(Munsom), (Korea; SE. Japan; Philippines; E.
Indian Ocean)

Mipus arbutum (Woollacott, 1954) (Munsom
(Segisom)), (Korea; Australia)

BUCCINIDAE

- ^ *Japelion (Metajapelion) latus* (Dall, 1918) (Sehwa
(Choe, 1992)), (East Sea (W. Area); East China
Sea)
- Neptunea (Barbitonia) cumingii* Crosse, 1862 (E. of
Songsan, Hwasoon), (East Sea (W. Area) to East
China and Yellow Sea)
- Phos roseatus* Hinds, 1844 ("Jejudo" (Min *et al.*,
2004)), (S. Japan to Philippines)
- Siphonalia cassidariaeformis* (Reeve, 1846) (Songsan,
Sehwa, Supsom, Pyosun, Shinyang, Supjikoji,
Hwasoon, Munsom), (Korea; Japan; China)
- Siphonalia signa* (Reeve, 1846) (Songsan, Supjikoji,
Shinyang), (Korea; Japan)
- Siphonalia spadicea fuscolineata* (Pease, 1860) (E. of
Songsan, S. of Seogwipo), (Japan to EAST China
Sea)
- Kelletia lischkei* Kuroda, 1938 (Seogwipo, Jeju-shi,
Sehwa, Pyosun, Munsom, Bumsom, Kwakji),
(Korea; Japan)
- Engina cf. curtisiana* (Udo (Sanhosa), Sagyei-ri,
Sehwa, Songsan, Supsom, Chagwido, Marado,
Jungmun), (Korea)
- Pollia mollis* (Gould, 1860) (Sehwa, Seogwipo,
Bumsom, Songsan, Sagyei-ri, Udo (Hagosudong,
Bukchon-ri, Shinyang), (Korea; China; Taiwan)
- Pollia subrubiginosa* (E. A. Smith, 1879) (Songsan,
Seogwipo, Sehwa, Songaksan, Hwasoon,
Shinchang, Udo (Sanhosa), Sagyei-ri, Bukchon-ri,
Shinyang), (Korea; Japan)
- Pisania tritonoides* (Reeve, 1846) (Hwasoon), (Japan
to Philippines)
- Cantharus cecillei* (Philippi, 1844) (Hwasoon),
(Japan to Indo-W. Pacific)
- Japeuthria ferrea* (Reeve, 1847) (Widely
distributed), (Japan to W. Pacific)

COLUMBELLIDAE

Euplica scripta Lamarck, 1822 (Widely distributed), (Japan to Indo-W. Pacific)

Pyrene flava (Bruguiere, 1789) (Pyosun, Supsom, Chagwido, Hwasoon, Sagyei-ri, Sehwa, Udo (Sanhosa), Songsan, Daepyong), (Japan to Indo-W. Pacific)

Pyrene testudinaria tylerae (Gray in Griffith and Pidgeon, 1834) (Widely distributed), (Korea; Japan)

Pyrene testudinaria subcibraria (Pilsbry, 1905) (Songsan, Munsom), (Korea; SE. Japan)

^*Mitrella (Mitrella) bicincta* (Gould, 1860) (Songsan, Seogwipo, Sehwa, Bumsom, Chagwido (Choe, 1992), Songaksan, Sagyei-ri (Lee and Hyun, 2002), Hyupjae, Yongmeori Coast (RGN)), (Japan to Indo-W. Pacific)

Mitrella (Mitrella) tenuis (Gaskoin, 1852) (Seogwipo, Songsan, Chagwido), (Japan to Indo-W. Pacific)

Mitrella (Indomitrella) nympa (Kiener, 1841) (Seogwipo, Munsom), (S. Japan to Indo-W. Pacific)

Pyreneola semipicta (Sowerby III, 1894) (Hwasoon, Songsan), (Japan to Hong Kong)

Pleurotomitrella pleurotomoides (Pilsbry, 1895) (Bumsom, Songsan, Hwasoon, Munsom, Hyupjae), (Korea; Japan)

Anachis miser miser (Sowerby II, 1844) (Widely distributed), (Korea; Japan)

^*Anachis miser polynyma* (Pilsbry, 1901) (Hyupjae (RGN)), (Korea; East Sea (W. Area); Japan)

Clathranachis japonica (A. Adams, 1860) (Hwasoon), (Japan to Tropical W. Pacific)

Zafra (Zafra) mitriformis A. Adams, 1860 (Songsan, Bukchon-ri, Jungbang Waterfall area), (Korea; Japan)

Zafra (Mokumea) divaricata (Pilsbry, 1904) (Hwasoon, Songsan), (Korea; Japan)

Zafra (Mokumea) albomarginata Okamoto and Habe, 1979 (Hwasoon, Supjikoji, Songsan, Sagyei-ri), (Korea; East Sea (W. Area); Japan)

Metanachis marquesa (Gaskoin, 1851) (Songsan, Keumneung), (E. Japan to Indo-W. Pacific)

^*Mitrella moleculina* (Duclou, 1840) (Kwakji ("Mike's Seashell Collection [internet])), (Japan to Indo-W. Pacific)

Mitrella (Indomitrella) mindorensis (Reeve, 1859) (Hwasoon), (S. Japan to Philippines)

Columbellopsis lischkei (E. A. Smith, 1879) ("Jejudo" (Min *et al.*, 2004)), (Korea; Japan; Taiwan)

Columbellopsis yabei (Nomura, 1935) (Songsan), (Korea; East Sea (W. Area); Japan)

Columbellopsis bella (Reeve, 1859) (Sagyei-ri, Songsan), (S. Japan to China and Hawaii)

^*Pseudanuycla formosa* (Gaskoin, 1852) (Kwakji ("Mike's Seashell Collection [internet])), (S. Japan to Philippines)

NASSARIIDAE

Niotha conoidalis (Deshayes, 1832) (Hwasoon), (Japan to Indo-W. Pacific)

Niotha splendidulus (Dunker, 1846) (Songsan), (Japan to Tropical W. Pacific)

Niotha livescens (Philippi, 1849) (Hamdok, Hyupjae, Udo (Hagosudong), Songsan, Hwasoon, Munsom, Shinyang), (Japan to Indo-W. Pacific)

Telasco sufflata (Gould, 1860) (Supsom, Songsan, Hwasoon), (Japan to Tropical W. Pacific)

Zeuxis castus (Gould, 1850) (Munsom), (Japan to Indo-W. Pacific)

Profundinassa babylonica (Watson, 1882) (Songsan), (Japan to Indo-W. Pacific; SE. Africa; E. Australia)

Hima (Reticunassa) festiva (Powys, 1833) (Seogwipo, Shinyang, Gimnyeong), (Korea; Japan; China to Philippines)

Hima (Reticunassa) paupera (Gould, 1850) (Hyupjae, Bukchon-ri, Songsan, Sagyei-ri, Hwasoon, Pyosun), (Japan to W. Pacific)

Hima (Reticunassa) fratercula fratercula (Dunker, 1860) (Songsan, Seogwipo, Pyosun, Gimnyeong, Hyupjae, Udo (Hagosudong)), (Korea; Japan; China)

Hima (Reticunassa) fratercula hiradoensis (Pilsbry, 1904) (Udo (Sanhosa), Hamdok, Hyupjae, Songsan), (Korea; Japan; China)

Hina (Reticunassa) multigranosa (Dunker, 1847)
(Jeju-shi, Songsan, Shinyang), (Korea; Japan; N.
China; Philippines)

Cyllene concinna A. Adams, 1951 (Hwasoon),
(Korea; S. Japan)

MELONGENIDAE

Pugilina (Semifusus) tuba (Gmelin, 1790)
(Munsom), (Japan to Indo-W. Pacific)

FASCIOLARIIDAE

^ *Fusolaturus coreanica* (E. A. Smith, 1879) (Sehwa
(Choe, 1992)), (Korea; Japan)

Latirulus nagasakiensis (E. A. Smith, 1880)
(Songsan), (Korea; Japan)

Fusinus perplexus (A. Adams, 1863) (Shinyang,
Hwasoon), (Korea; Japan)

^ *Fusinus grabaui* Kuroda and Habe, 1952) (E. of
Songsan (CNU)), (Korea; Japan)

^ *Fusinus forceps forceps* (Perry, 1811) (E. of
Songsan (CNU)), (S. Japan to China and
Philippines)

^ *Fusinus forceps salisburyi* Fulton, 1930)
(Mosulpo, Sehwa, Seogwipo (Choe, 1992)), (Korea;
Japan)

Fusinus spectrum (Adams and Reeve, 1848)
(Hwasoon), (Korea; S. Japan)

VOLUTIDAE

Lyrta cassidula (Reeve, 1849) (Hwasoon), (Korea;
Japan; Taiwan)

Fulgoraria (Fulgoraria) hamillei (Crosse, 1869) (E.
of Songsan, Shinyang, Supjikoji, Songsan), (Korea;
S. Japan; N. Taiwan)

Fulgoraria (Psephaea) kaneko Hirase, 1922)
(Songsan), (Korea; W. Japan)

OLIVIDAE

Baryspira rubiginosa albocallosa (Lischke, 1874)
(Sehwa), (Korea; Japan)

Oliva (Musteloliva) mustelina Lamarck, 1811)
(Songsan), (Japan to Indo-W. Pacific)

Ancilla (Baryspira) sineusis (Sowerby II, 1859)
(Hamdok, Hyupjae, Sagyei-ri, Songsan), (Korea; S.
Japan)

Olivella fortunei japonica Stearns in Pilsbry, 1895)
(Jungmun, Songsan, Sagyei-ri), (Korea; SE. Japan)

Olivella spreata Gould, 1861) (Songsan), (Korea;
Japan)

Olivella fulgurata (Adams and Reeve, 1850)
(Songsan, Iho, Hyupjae, Sagyei-ri, Shinyang,
Daepyong), (Japan to S. China Sea)

Olivella spretoides Yokoyama, 1922) (Songsan,
Shinyang, Udo (Hagosudong), Yongmeori Coast),
(Korea; Japan)

Olivella aureobalteata Kuroda and Habe, 1971)
(Hyupjae, Songsan), (Korea; Japan)

CYSTISCIDAE

Gibberula japonica (Nomura and Hatai, 1940)
(Hwasoon, Supjikoji), (Korea; SE. Japan)

Gibberula falsijaponica (Habe, 1961) (Hwasoon,
Songsan, Supjikoji), (Japan to Tropical W. Pacific)

Gibberula ovata (Habe, 1951) (Hwasoon), (S. Japan
to Tropical W. Pacific)

Gibberula novemprovincialis (Yokoyama, 1928)
(Hwasoon), (Japan; E. China Sea)

Crithe nipponica (Habe, 1951) (Songsan, Supjikoji),
(Korea; Japan; Hawaii)

Crithe nanaoensis (Habe, 1951) (Hwasoon), (Korea;
Japan)

Granulina tantilla (Gould, 1860) (Hwasoon), (Korea;
Japan)

Cysticus angasi (Crosse, 1870) (Hwasoon), (Japan to
N. Australia)

MITRIDAE

Mitra inquinata (Reeve, 1844) (Munsom), (Korea;
Japan; China; Taiwan)

Cancilla isabella (Swainson, 1831) (Songsan,
Supjikoji), (Japan to China and Philippines)

COSTELLARIIDAE

Vexillum (Pusia) inerme inerme (Reeve, 1845)
(Seogwipo, Jeju-shi, Sehwa, Pyosun, Udo)

(Sanhosa), Bukchon-ri, Songsan, Daepyeong), (Japan to Tropical W. Pacific)

Vexillum (Pusia) inerme kraussi (Dunker, 1861)

(Udo (Sanhosa), Hamdok, Bukchon-ri, Songsan, Hamo), (Korea; Japan)

CANCELLARIIDAE

Admetula garrardi Petit, 1974 (Songsan), (Japan to Tropical W. Pacific)

TURRIDAE

Tylorella japonica (Lischke, 1869) (Songsan), (Korea; Japan)

Haedropleura pygmaea (Dunker, 1860) (Songsan), (Korea; Japan)

Turridrupa bijubata (Reeve, 1843) (Munsom), (S. Japan to Indo-W. Pacific)

Etrema (Etrema) royi (Sowerby III, 1913) (Hwasoon), (S. Japan to Indo-W. Pacific)

Etrema (Etrema) subauriformis (E. A. Smith, 1879) (Hwasoon, Bukchon-ri), (Korea; Japan; China; Taiwan)

Etrema (Etrema) streptonotus (Pilsbry, 1904) (Hwasoon), (Korea; Japan)

Etrema (Etrema) scalarina (Deshayes, 1863) (Hwasoon), (Japan to Indo-W. Pacific)

Etrema (Etrema) gainesii (Pilsbry, 1895) (Bukchon-ri), (Korea; Japan; China; Taiwan)

Citharomangelia radulina Kuroda and Oyama, 1971 (Hwasoon), (Korea; Japan)

Hemicythara octangulata (Dunker, 1860) (Hyupjae, Hwasoon, Songsan, Supjikoji), (Korea; Japan)

Leiocythara longispira (Smith, 1879) (Hyupjae, Hwasoon), (Korea; Japan)

Lienardia (Lienardia) roseotincta (Montrouzier, 1872) (Hwasoon, Sagyei-ri), (S. Japan to Indo-W. Pacific)

Lienardia apiculata Montrouzier, 1861 (Bukchon-ri), (S. Japan to Indo-W. Pacific)

Guraleus deshayesii (Dunker, 1860) (Hwasoon), (Korea; Japan)

Guraleus kamakurana (Pilsbry, 1904) (Hwasoon, Supjikoji, Songsan), (Korea; Japan)

Pseudoraphitoma pyramis (Hinds, 1844) (Hwasoon, Bukchon-ri, Songsan, Keumneung), (Japan to Indo-W. Pacific)

Pseudoraphitoma bipyramidata Hedley, 1922 (Hwasoon, Bukchon-ri), (Japan to Indo-W. Pacific)

Cytharella costulata Dunker, 1860 (Hwasoon, Bukchon-ri, Supjikoji, Songsan), (Japan to Indo-W. Pacific)

Ithyocythara oyana (Yokoyama, 1922) (Kwakji, Bukchon-ri), (Korea; Japan)

Philbertia (Pseudodaphnella) leukarti (Dunker, 1860) (Hwasoon), (Korea; Japan)

Philbertia (Pseudodaphnella) tincta (Reeve, 1846) (Hwasoon), (E. Japan to Indo-W. Pacific)

Philbertia (Pseudodaphnella) excellens (Sowerby III, 1913) (Kwakji), (Korea; S. Japan)

Philbertia (Leufroyia) subspurca (Hervier, 1896) (Hwasoon), (S. Japan to Indo-W. Pacific)

Daphnella interrupta Pease, 1860 (Hwasoon, Udo, Songsan, Sagyei-ri), (Korea; Philippines; Hawaii)

Daphnella ornata Hinds, 1844 (Bukchon-ri, Hwasoon), (S. Japan to Indo-W. Pacific)

CONIDAE

Conus fulgetrum Sowerby I, 1834 (Songsan), (Japan to Indo-W. Pacific)

Conus fulmen Reeve, 1843 (Bumsom, Supsom, Songsan, Munsom), (Korea; Japan; Taiwan)

Conus lischkeanus Weinkauff, 1875 (Bumsom, Munsom), (Japan to Indo-W. Pacific; New Zealand)

TEREBRIDAE

Terebra amanda Hinds, 1844 (Seogwipo, Munsom), (Japan to Indo-W. Pacific)

Terebra lima Deshayes, 1857 ("Jejudo" (Min *et al.*, 2004)), (Japan to Indo-W. Pacific)

Terebra melanacme E. A. Smith, 1875 (Hwasoon, Songsan, Shinyang), (Korea; Japan)

Terebra taylori Reeve, 1844 (Udo (Hagosudong) (RGN)), (Japan to Indo-W. Pacific)

Hastula strigilata (Linnaeus, 1758) (Gimnyeong, Jungmun, Songsan, Sehwa, Hyupjae, Jeju-shi, Udo)

(Hagosudong), Kwakji, Shinyang), (S. Japan to Indo-W. Pacific)

Hastula matheroniana (Deshayes, 1859) (Sagyei-ri), (S. Japan to Indo-W. Pacific)

Hastula rufopunctata (E. A. Smith, 1877) (Hwasoon, Songsan, Sagyei-ri), (Japan to Indo-W. Pacific)

Hastula celidonata (Melville and Sykes, 1898) (Hyupjae, Songsan), (S. Japan to Indo-W. Pacific)

Duplicaria evoluta (Deshayes, 1859) (Shinyang (RGN)), (Korea; Japan)

Superorder: HETEROBRANCHIA

ARCHITECTONICIDAE

Heliacus variegata (Gmelin, 1791) (Songsan), (S. Japan to Indo-W. Pacific)

Heliacus (Torinista) implexus (Mighels, 1845) (Hwasoon, Munsom), (Japan to Indo-W. Pacific)

Heliacus (Torinista) enoshimensis (Melvill, 1893) (Hwasoon), (Japan to E. Australia)

PYRAMIDELLIDAE

Orinella pulchella (A. Adams, 1854) (Bukchon-ri, Supjikoji), (Korea; Japan)

Puposyrnola inturbida (Yokoyama, 1927) (Hwasoon, Supjikoji), (Korea; Japan)

Odostomia minutiovum Nomura, 1936 (Hwasoon), (Korea; Japan)

Odostomia sperabilis HEDLEY, 1909 (Hwasoon), (S. Japan to Australia (Queensland))

Brachystomia bipyramidata (Nomura, 1936) (Hwasoon), (Korea; Japan)

Megastomia sagamiana (Nomura, 1937) (Supjikoji), (Korea; Japan)

Megastomia clara (Nomura, 1936) (Hwasoon), (Korea; E. Japan)

Megastomia interolineata (Nomura, 1936) (Supjikoji), (Korea; E. Japan)

Megastomia makiyamai (Nomura, 1937) (Hwasoon), (Korea; E. Japan)

Megastomia yabehisakatsui Nomura, 1936 (Supjikoji), (Korea; E. Japan)

Sinuatodostomia nomurai Corgan, 1996 (Hwasoon, Bukchon-ri), (Korea; Japan)

Boonea umboniocola Hori and Okutani, 1995 (Hwasoon, Supjikoji), (Korea; S. Japan)

Siogamaia akasakiensis Nomura, 1936 (Hwasoon), (Korea; E. Japan)

Chrysallida sibana (Yokoyama, 1927) (Sagyei-ri), (Korea; S. Japan)

Chrysallida metula A. Adams, 1860 (Hwasoon), (Korea; Japan)

Numaegilina gloria (Nomura, 1938) (Supjikoji), (Korea; Japan)

Parthenina affectuosa (Yokoyama, 1927) (Supjikoji), (Korea; Japan)

Parthenina quantoana (Nomura, 1937) (Hwasoon), (Korea; Japan)

Trabecula plicata (A. Adams, 1860) (Hwasoon), (Korea; S. Japan)

Trabecula punctigera (A. Adams, 1860) (Hwasoon), (Korea; W. Japan)

Trabecula tantilla (A. Adams, 1863) (Hwasoon, Supjikoji), (Japan to W. Pacific)

Purgulina casta (A. Adams, 1861) (Hwasoon), (Korea; Japan)

Purgulina brenda (A. Adams, 1860) (Supjikoji), (Korea; S. Japan)

Purgulina pseudalveata (Nomura, 1936) (Hwasoon, Sagyei-ri), (Korea; Japan)

Purgulina pulchella (A. Adams, 1860) (Hwasoon), (Korea; Japan)

Purgulina pupula (A. Adams, 1861) (Hwasoon, Supjikoji), (Korea; S. Japan)

Quirella suprafila Laseron, 1959 (Hwasoon, Supjikoji, Sagyei-ri), (S. Japan to Australia)

Mirakda gemma (A. Adams, 1861) (Hwasoon), (Korea; Japan)

Mirakda attentissima (Nomura, 1936) (Hwasoon), (Korea; E. Japan)

Babella caelator (Dall and Bartsch, 1906) ("Jejudo" (Min *et al.*, 2004)), (Korea; Japan)

Egilina mariella (A. Adams, 1860) (Supjikoji), (Korea; S. Japan)

Egilina kotoeae Hori and H. Fukuda, 1999 (Sagyei-ri), (Korea; Japan)

Iolaea scitula (A. Adams, 1860) (Supjikoji), (Korea; Japan)

- Iolaea amicalis* (Yokoyama, 1927) (Supjikoji),
(Korea; Japan)
- Iolaea neofelixoides* (Nomura, 1936) (Supjikoji),
(Korea; Japan)
- Oscilla bosyuensis* (Nomura, 1937) (Hwasoon),
(Korea; Japan)
- Oscilla tricordata* (Nomura, 1938) (Hwasoon),
(Korea; Japan)
- Oscilla lirata* (A. Adams, 1860) (Hwasoon, Supjikoji,
Sagyei-ri), (Korea; Japan)
- Oscilla voorwindeii* (LASERON, 1959) (Hwasoon,
Supjikoji, Sagyei-ri), (Korea; S. Japan; Australia)
- Syrnola cinctella* A. Adams, 1860 (Hwasoon), (Japan
to Indo-W. Pacific)
- Syrnola subcinctella* Nomura, 1936) (Hwasoon),
(Korea; Japan)
- Styloptigma terebroides* Kuroda, 1956 (Hwasoon,
Supjikoji), (Korea; Japan)
- Styloptigma lutea* (Garrett, 1872) (Hwasoon), (S.
Japan to Tropical W. Pacific)
- Styloptigma taeniatum* A. Adams, 1863 (Hwasoon),
(Japan to Indonesia)
- Agatha virgo* A. Adams, 1860) (Hwasoon), (Korea;
Japan)
- Agatha lepidula* Habe, 1961 (Hwasoon, Sagyei-ri),
(Korea; S. Japan)
- Agatha infrequens* Nomura, 1937 (Hwasoon),
(Korea; E. Japan)
- Chemnitzia kidoensis* Yokoyama, 1922) ("Jejudo"
(Min *et al.*, 2004)), (Korea; Japan)
- Chemnitzia multigyra* (Dunker, 1882) (Hwasoon,
Supjikoji), (Korea; Japan)
- Pyrgiscus mumia* (A. Adams, 1861) (Hwasoon),
(Korea; Japan)
- Pyrgiscilla yoritomoi* (Nomura, 1938) (Hwasoon),
(Korea; Japan)
- Parmormula aulica* (Dall and Bartsch, 1906)
(Supjikoji), (Japan to Tropical W. Pacific)
- Parmormula paucicostulata* (Tokunaga, 1906)
(Hwasoon), (Korea; Japan)
- Psellogyra pagodula* (A. Adams, 1860) (Hwasoon),
(Korea; Japan)
- Sukoturbonilla ultraeta* (Nomura, 1936)
(Hwasoon), (Korea; Japan)
- Mormula philippiana* (Dunker, 1860) (Hwasoon,
Songsan, Sagyei-ri), (Korea; Japan)
- Cingulina cingulata* (Dunker, 1860) (Songsan,
Hwasoon, Hamo), (Korea; Japan)
- Cingulina laticingulata* (Dall and Bartsch, 1906)
(Hwasoon), (Korea; Japan)
- Paracingulina triarata* (Pilsbry, 1904) (Hwasoon),
(Korea; Japan)
- Paracingulina terebra* (Dunker, 1860) (Hwasoon),
(Korea; Japan)
- Paracingulina onzikuensis* (Nomura, 1938)
(Hwasoon), (Korea; Japan)
- Paracingulina inequicingulata* (Nomura, 1938)
(Hwasoon), (Korea; Japan)
- Klienella sulcata* A. Adams, 1862) (Hwasoon),
(Korea; S. Japan)
- Tropaeas strigatula* (A. Adams, 1863) (Supjikoji),
(Korea; S. Japan)
- AMATHINIDAE
- Leucotina diana* (A. Adams, 1853) (Keumneung),
(Korea; Japan)
- EBALIDAE
- Murchisonella pagodula* (Yokoyama, 1927)
(Hwasoon), (Korea; Japan)
- Murchisonella densistriata* (Nomura, 1936)
(Hwasoon), (Korea; E. Japan)
- Superorder: OPISTHOBRANCHIA
Order: ARCHITECTIBRANCHIA
- ACTEONIDAE
- Acteon teremachii* Habe, 1961 (Hwasoon), (Korea;
Japan; China)
- Acteon archibenthicola* Habe, 1955 (Shinyang),
(Korea; E. Japan)
- Pupa (Rictaxiella) choshiensis* (Habe, 1958)
(Hwasoon), (Korea; E. Japan)
- Pupa (Strigopupa) strigosa strigosa* (Gould, 1859)
(Hyupjae, Shinyang, Keumneung), (Japan to S.
China Sea)
- Japonacteon nipponensis* (Yamakawa, 1911)
(Kwakji (Ahn, 2002, 2004)), Udo (Hagosudong),

Hyupjae, Shinyang, Keumneung (RGN)), (Japan to S. China Sea)

HYDATINIDAE (Aplustridae)

Hydatina physis (Linnaeus, 1758) (Songsan), (Japan to Indo-W. Pacific)

Hydatina zonata (Lightfoot, 1786) (Hwasoon), (E. Japan to Indo-W. Pacific)

RINGICULIDAE

Ringicula (Ringiculina) doliaris Gould, 1860 (Hwasoon), (Japan to Tropical Pacific)

RETUSIDAE

Retusa (Decolifer) insignis (Pilsbry, 1904) (Hwasoon), (Japan to S. China Sea)

Retusa (Decolifer) matsusimanus Nomura, 1940 (Hwasoon), (Korea; Japan; China)

Retusa (Decolifer) longispirata (Yamakawa, 1911) (Hwasoon), (Korea; Japan; E. Sea (W. Area))

Pyrunculus phialus (A. Adams, 1862) (Hwasoon), (Japan to S. China Sea)

Pyrunculus tokyoensis Habe, 1950 (Hwasoon), (Korea; Japan; China)

Coleophysis succincta (A. Adams, 1862) (Hwasoon), (Korea; Japan)

Coleophysis waughiana (Hedley, 1899) (Hwasoon, Supjikoji), (S. Japan to Central Pacific)

Coleophysis sakuraii Habe, 1958 (Hwasoon), (Korea; E. Japan)

Sulcoretusa minima (Yamakawa, 1911) (Hwasoon), (Japan to S. China Sea)

Rhizorus ovulinus (A. Adams, 1862) (Hwasoon), (Japan to S. China Sea)

Rhizorus eburneus (A. Adams, 1850) (Hwasoon), (Japan to S. China Sea)

Rhizorus tokunagai (Makiyama, 1927) (Hwasoon), (Korea; Japan; China)

Rhizorus radiolus (A. Adams, 1862) (Hwasoon), (Japan to S. China Sea)

Rhizorus opalinus (A. Adams, 1862) (Hwasoon), (Japan to S. China Sea)

SCAPHANDERIDAE

Adamnestia japonica (A. Adams, 1862) (Shinyang), (Japan to Philippines)

Eocylichna musashiensis (Tokunaga, 1906) (Hwasoon, Songsan), (Japan to S. China Sea)

Acteocina exilis (Dunker, 1859) (Shinyang), (Japan to S. China Sea)

Acteocina (Truncacteocina) coarctata (A. Adams, 1850) (Hwasoon), (S. Japan to Tropical Pacific)

Cyclchnatys angusta (Gould, 1859) (Hwasoon), (Japan to S. China Sea)

PHILINIDAE

Philine otukai Habe, 1946 (Hwasoon), (Korea; Japan)

Philine orca Gosliner, 1988 (Hwasoon), (Japan to Indo-W. Pacific)

Philine rubrata Gosliner, 1988 (Hwasoon), (Japan to Indo-W. Pacific)

Hermania infantilis Habe, 1950 (Hwasoon), (Japan to S. China Sea)

Yokoyamaia (Choshiphiline) pygmaea (Yokoyama, 1922) (Hwasoon), (Japan to S. China Sea)

AGLAJIDAE

Chelidonura amoena Bergh, 1905 (Hyungjaesom), (SE. Japan to Tropical W. Pacific)

Philinopsis cyanea (Martens, 1879) (Seogwipo), (Japan to Indo-W. Pacific)

Philinopsis giglioli (Tapparone-Canefri, 1874) (Munsom), (Japan to Indo-W. Pacific)

HAMINOEIDAE

Haloa japonica (Pilsbry, 1895) (Hyupjae, Jungmun, Pyosun, Sagyei-ri, Hwasoon, Songsan), (Korea; Japan)

Haloa nigropunctata (Pease, 1868) (Songsan, Hwasoon), (S. Japan to Taiwan and Polynesia)

Liloa porcellana (Gould, 1859) (Hwasoon), (Japan to S. China Sea)

Aliculastrum cylindricum (Helbling, 1779) (Hwasoon), (S. Japan to Indo-W. Pacific)

Limulatys ooformis Habe, 1952 (Hwasoon), (Japan to S. China Sea)

Limulatys okmotai Habe, 1952 (Hwasoon), (S. Japan to S. China Sea)

Limulatys constrictus Habe, 1952 (Hwasoon), (E. Japan to S. China Sea)

Limulatys muscarius (Gould, 1859) (Hwasoon), (Japan to Indo-W. Pacific)

Nipponatys volvulinus (A. Adams, 1862) (Hwasoon), (W. Japan and Yellow Sea to S. China Sea)

Micratys ovum Habe, 1952 (Hwasoon), (Korea; S. Japan)

SMARAGDINELLIDAE

Smaragdinella sieboldi A. Adams, 1864 (Supsom), (Japan to Indo-W. Pacific)

BULLIDAE

Bulla vernicosa Gould, 1859 (Jungmun, Sagyei-ri, Songsan), (Japan to Indo-W. Pacific)

Bulla punctulata A. Adams, 1850 (Songsan), (S. Japan to Tropical W. Pacific)

Order: SACOGLOSSA

ELYSIIDAE

Elysia ornata (Swainson, 1840) (Supsom, Munsom), (Japan to Indo-W. Pacific; Atlantic)

Elysia amakusana Baba, 1955 (Munsom), (Korea; Japan)

Elysia abei Baba, 1955 (Munsom), (Korea; Japan)

LIMAPONTIIDAE

Placida cremoniana Trinchese, 1893 (Munsom), (Japan to E. Australia; Mediterranean)

HERMAEIDAE

Hermaea bifida (Montagu, 1815) (Munsom), (Korea; SE. Japan)

Aplysiopsis nigra (Baba, 1949) (Hwasoon), (Korea; Japan)

Order: ANASPIDEA

AKERIDAE

Akera soluta (Gmelin, 1791) (Hwasoon), (Japan to Australia; Indian Ocean)

APLYSIIDAE

Aplysia (Aplysia) juliana Quoy and Gaimard, 1832 (Hyupjae, Seogwipo), (Japan to Pacific, Indian, and Atlantic Oceans; Africa)

Aplysia (Varría) kurodai (Baba, 1937) (Widely distributed), (Korea; Japan; China)

Aplysia (Pruvotaplysia) parvula Gould in Moersch, 1863 (North coast, Songsan, Aewol), (Japan to Indo-W. Pacific, California, and Australia)

Dolabella aricularia (Lightfoot, 1786) (Supsom, Seogwipo), (E. Japan to Indo-W. Pacific)

Bursatella leachi (De Blainville, 1817) (Hwasoon), (Japan; Pacific Ocean)

Notarchus punctatus Philippi, 1836 (Jeju-shi (Sasu)), (Japan to Indo-W. Pacific)

Stylocheilus striatus (Quoy and Garmard, 1832) (Jeju-shi (Sasu)), (Japan to Indo-W. Pacific; Atlantic)

Stylocheilus longicauda (Quoy and Gaimard, 1824) (Jeju-shi (Sasu)), (Japan to Indo-W. Pacific)

Order: NOTASPIDEA

PLEUROBRANCHIDAE

Pleurobranchus peroni Cuvier, 1804 (Munsom ("Sea Slug Forum [internet]")), (Japan to Indo-W. Pacific)

Pleurobranchaea japonica (Thiele, 1925) (Hwasoon), (Korea; Japan; China; New Zealand)

Berthellina citrina (Ruppell and Leuckart, 1828) (Aewol), (Japan to Tropical Pacific)

Order: THECOSOMATA

LIMACINIDAE

Limacina inflata (D'Orbigny, 1836) (Hwasoon), (Kuroshio Current; worldwide in warm water areas)

Limacina trochiformis (D'Orbigny, 1836) (Hwasoon), (worldwide in warm water areas)

Limacina bulimoides (D'Orbigny, 1836) (Hwasoon), (worldwide in warm water areas)

CAVOLINIIDAE

Cavolinia tridentata (Forsk. 1775) (Hwasoon), (worldwide in warm water areas)

- Cavolinia uncinata* (Rang in D'Orbigny, 1843)
(Songsan, Supjikoji, Hwasoon), (worldwide in warm water areas)
- Cavolinia globulosa* (Gray, 1850) (Hwasoon),
(worldwide in warm water areas)
- Cavolinia inflexa* (Lesueur, 1813) (Hwasoon),
(worldwide in warm water areas)
- Diacavolinia longirostris* (Blainville, 1821)
(Hwasoon), (worldwide in warm water areas)
- Diacavolinia angulosa* (Gray, 1850) (Hwasoon),
(Japan to Indo-W. Pacific)
- Diacria trispinosa* (Lesueur, 1821) (Hwasoon),
(worldwide in warm water areas)
- Diacria quadridentata* (Leseur, 1821) (Hwasoon),
(Kuroshio current; worldwide in warm water areas)
- Clio pyramidata* Linnaeus, 1767 (Hwasoon,
Songsan), (Kuroshio current north to cooler water;
worldwide in warm water areas)
- Creseis virgula virgula* (Rang, 1828) (Hwasoon),
(worldwide in warm water areas)
- Creseis virgula conica* Eschscholtz, 1825 (Hwasoon),
(worldwide in warm water areas)
- Creseis acicula acicula* (Rang, 1828) (Hwasoon),
(worldwide in warm water areas)
- Creseis acicula clava* Rang, 1828 (Hwasoon),
(worldwide in warm water areas)
- Hyalocylis striata* (Rang, 1828) (Hwasoon),
(worldwide in warm water areas)
- Cuvierina columnella columnella* (Rang, 1827)
(Hwasoon), (worldwide in warm water areas)
- Cuvierina columnella urceolaris* (Mörch, 1850)
(Hwasoon), (worldwide in warm water areas)

Order: GYMNOSOMATA

CLIONIDAE

- Clione limacina* (Phipps, 1774) (Munsom),
(Northern Hemisphere; cold water areas)

Order: NUDIBRANCHIA

Suborder: DORIDINA

GONIODORIDIDAE

- Hopkinsia hiroi* (Baba, 1938) (Munsom), (Korea;
Japan; Hong Kong)

POLYCERIDAE

- Thecacera pennigera* (Montagu, 1815) (Munsom),
(Korea; Japan; Atlantic; Indian; Mediteranean;
Australia and New Zealand)
- Kaloplocamus ramosus* (Cantraine, 1835) (Munsom),
(Japan to Hong Kong; E. Africa; Australia and
New Zealand; Mediterranean)
- Plocamopherus imperialis* (Angas, 1864) (Jeju-shi
(Sasu), (Japan to Indo-W. Pacific; Australia; New
Zealand)
- Plocamopherus tilesii* Bergh 1877 (Munsom),
(Korea; Japan)
- Triopha catalinae* (Cooper, 1863) (Songsan), (W.
North America; Korea; Japan)
- Tambja verconis* (Basedow and Hedley, 1905)
(Munsom), (Korea; New Zealand)
- Tambja amakusana* Baba, 1987 (Munsom), (Korea;
Japan)
- Tambja sp.* (Munsom), (Korea; Japan)

DORIDIDAE

- Hoplodoris armata* (Baba, 1993) (Munsom, North
Coast, Seogwipo (Saesum), (Korea; Japan)
- Hoplodoris bifurcata* (Baba, 1993) (Munsom),
(Korea; Japan)
- Atagema spongiosa* (Kelaart, 1858) (Munsom),
(Japan to Indo-W. Pacific; Australia)
- Platydoris Speciosa* (Abraham, 1877) (Munsom),
(Japan to Indo-South Pacific)
- Platydoris tabulata* (Abraham, 1877) (Munsom),
(Japan to Indo-W. Pacific)
- Rostanga orientalis* Rudman and Avern, 1989
(Jeju-shi (Sasu)), (Korea; Japan; Hong Kong;
Australia)
- Jorunna parva* (Baba, 1938) (Munsom), (Korea;
Japan)
- Jorunna sp.* (Munsom), (Korea)
- Trippla intecta* (Kelaart, 1858) (Munsom), (Japan to
Indo-W. Pacific)
- Discodoris lilacina* (Gould, 1852) (Munsom), (Japan
to Indo Pacific)
- Geitodoris lutea* Baba, 1937 (Jeju-shi (Sasu)),
(Korea; Japan)

CHROMODORIDIDAE

- Chromodoris aureopurpurea* Collingwood, 1881
(Munsom, Supsom), (Korea; Japan)
- Chromodoris orientalis* Rudman, 1983 (Munsom, Pyosun, Seogwipo, Supsom, Bumsom, Marado, Songsan, Songaksan), (Japan to Hong Kong)
- Chromodoris tinctoria* (Rüppell and Leucart, 1828)
(Munsom, Supsom, Chagwido, Songsan, Hallim),
(Japan to Indo-W. Pacific)
- Chromodoris quadricolor* (Rüppell and Leucart, 1828)
(Jeju-shi (Sasu)), (SE. Japan to Tropical Pacific;
Africa)
- Hypselodoris festiva* (A. Adams, 1861) (Munsom, Supsom, Bumsom, Chagwido, Songsan, Hwasoon),
(Korea; Japan)
- Noumea purpurea* Baba, 1949 (Munsom, Biyangdo),
(Korea; Japan)
- Noumea nivalis* Baba, 1937 (Munsom), (Korea;
Japan)
- Ceratosoma trilobatum* (J. E. Gray, 1827)
(Munsom), (Japan to Indo-W. Pacific)
- Ceratosoma tenue* Abraham, 1876 (Munsom),
(Korea to Indo-W. Pacific)
- Thorunna florens* (Baba, 1949) (Munsom, Supsom),
(Japan to Tropical W. Pacific; E. Indian Ocean)
- Glossodoris misakinosibogae* Baba, 1988 (Munsom, Supsom, Aewol, Seogwipo), (Korea; Japan)
- Glossodoris pallida* (Rüppell and Leuckart, 1828)
(Bumsom), (Japan to Indo-W. Pacific)
- Glossodoris rufomarginata* (Bergh, 1890) (Munsom),
(Japan to Indo-W. Pacific)
- Mexichromis mariei* (Crosse, 1872) (Munsom),
(Japan to W. Pacific; Indian Ocean?)

DENDRODORIDIDAE

- ^ *Dendrodoris cf. carbunculosa* (Kelaart, 1858)
(Munsom ("Sea Slug Forum" [internet])), (Japan to
Indo-W. Pacific)
- Dendrodoris fumata* (Rüppell and Leuckart, 1831)
(Jeju-shi (Sasu)), (Japan to Indo-W. Pacific;
Australia)
- Dendrodoris denisoni* (Angas, 1864) (Munsom),
(Japan to Indo-W. Pacific; Australia; New Zealand)

Dendrodoris tuberculosa (Quoy and Gaimard, 1832)
(Munsom), (Japan to Indo-W. Pacific, Australia; S.
Africa)

Doriopsilla peculiaris (Abraham, 1877) (Supsom),
(Korea; Australia)

PHYLLIDIIDAE

- Phyllidia ocellata* Cuvier, 1804 (Munsom), (Japan to
Indo-W. Pacific; Red Sea)
- Phyllidia babai* Brunckhorst, 1993 (Munsom),
(Korea; NE. Australia to Indonesia)
- Phyllidiella pustulosa* Cuvier, 1804 ("Jejudo" (Min *et al.*, 2004)), (SE. Japan to Indo Pacific; Australia)
- Fryeria menindie* Brunckhorst, 1993 (Munsom), (S.
Japan to Indo-W. Pacific)

Suborder: DENDRONOTINA

BORNELLIDAE

Bornella stellifer (Adams and Reeve, 1848)
(Munsom), (Japan to Indo-W. Pacific)

TETHYDIDAE

Melibe papillosa (Defilippi, 1867) (Biyangdo), (Japan
to Indo-W. Pacific)

Suborder: ARMININA

ARMINIDAE

- Dermatobranchus semistriatus* Baba, 1949
(Munsom), (Korea; Japan)
- Dermatobranchus otome* Baba, 1992 (Munsom),
(Japan to W. Pacific)
- Dermatobranchus primus* (Baba, 1976) (Munsom),
(Korea; Japan)

Suborder: AEOLIDINA

FLABELLINIDAE

- ^ *Flabellina exoptata* Gosliner and Willan, 1991
(Munsom ("Sea Slug Forum" [internet])), (E.
Japan to Indo-W. Pacific)
- Flabellina bicolor* (Kelaart, 1858) (Munsom), (Japan
to Indo-W. Pacific)

AEOLIDIIDAE

- Protoaeolidiella atra* Baba, 1955 (Munsom, Songsan), (Korea; Japan)
Protoaeolidiella juliae (Burn, 1966) (Munsom), (Korea; Japan)

GLAUCIDAE

- Favorinus tsuriganus* Baba and Abe, 1964 (Munsom), (Japan to W. Pacific; Australia; New Zealand; Reunion Is.)
Phylloidesmium opalescens Rudman, 1991 (Munsom), (Korea; Hong Kong)
Sakuraeolis gerberina (Hirano, 1999) (Bumsom), (Korea; Japan)
Sakuraeolia sakuracea (Hirano, 1999) (Bumsom, Beophwan), (Korea; Japan)
Hermisenda crassicornis (Eschscholtz, 1831) (Songsan), (Korea; Japan; W. North America; Indo-W. Pacific)
Phidiana indica (Bergh, 1896) (Munsom), (Korea; Japan; Hawaii; N. America; Mediterranean)

TERGIPEDIDAE

- Cuthona diversicolor* Baba, 1975 (Munsom), (Korea; Japan; Hong Kong)
Cuthona sibogae (Bergh, 1905) (Jeju-shi (Sasu)), (Korea; Indo-W. Pacific)

FIONIDAE

- Fiona pinnata* (Eschscholtz, 1831) (Munsom), (Worldwide)

Superorder: PULMONATA

Order: BASOMMATOPHORA

SIPHONARIIDAE

- Siphonaria (Siphonaria) ruciana* Pilsbry, 1904 (Hamdok, Sagyei-ri, Bukchon-ri, Hwasoon, Songsan, Shinyang), (Korea; S. Japan)
Siphonaria (Sacculosiphonaria) japonica (Donovan, 1824) (Widely distributed), (Korea; Japan)
Siphonaria (Planesiphon) acmaeoides Pilsbry, 1894 (Chagwido, Songsan, Hwasoon, Sagyei-ri), (Korea; Japan)

- Siphonaria (Anthosiphonaria) sirius* Pilsbry, 1894 (Jungmun, Kwakji, Songsan, Chagwido, Sagyei-ri, Hwasoon), (Korea; Japan)
Siphonaria (Mestosiphon) laciniosa (Linnaeus, 1758) (Hwasoon, Munsom), (S. Japan to Indo-W. Pacific)
Siphonaria javanica (Lamarck, 1819) (Songsan), (S. Japan to Indo-W. Pacific)

LYMNAEIDAE

- Austropeplea ollula* (Gould, 1859) (Jungbang Falls), (Korea; Japan; Taiwan)
Fossaria truncatula (Müller, 1774) (Seogundo), (Korea; Japan; W. Canada; Europe)
Radix auricularia (Linnaeus, 1758) (W. of Beophwan), (N. Asia; Europe; North America)

PHYSIDAE

- Physa acuta* Draparnaud, 1805 (Seogwipo, Seogundo, Jungmun), (Worldwide)

PLANORBIDAE

- Gyraulus convexiusculus* Hutton, 1849 (Seogwipo), (Korea; SE. Asia; India; Iran)
Polypylis hemisphaerula (Benson, 1842) ("Entire country" Min *et al.*, 2004), (Japan to SE. Asia)
Hippeutis (Segnitilia) cantori (Benson, 1850) (W. of Beophwan), (Korea; Japan; China)

Order: EUPULMONATA

ELLOBIIDAE

- Allochroa layardi* (H. and A. Adams, 1855) (Supjikoji, Hwasoon, Keumneung), (Japan to Indo-W. Pacific)
Laemodonta monilifera (H. and A. Adams, 1854) (Hwasoon, Keumneung), (Japan to Indo-W. Pacific)
Laemodonta exaratooides Kawabe, 1992 (Hwasoon, Shinyang, Supjikoji, Hagwi), (Korea; Japan)
Laemodonta octanfracta (Jonas, 1845) (Sagyei-ri, Supjikoji), (S. Japan to Indo-W. Pacific)
Microtralia acteocinoides Kuroda and Habe in Habe, 1961 (Hwasoon, Songsan), (Japan to Indo-W. Pacific)

Melampus (Melampus) nuxcastaneus Kuroda, 1949
(Iho, Shinyang, Supjikoji, Hwasoon, Jungmun),
(Korea; Japan; Taiwan)

Melampus (Pira) fasciatus (Deshayes, 1830)
(Hwasoon, Biyangdo), (S. Japan to Indo-W.
Pacific)

Melampus (Pira) taeniolus Hombron and Jaquinot,
1854 (Shinyang, Supjikoji), (S. Japan to Indo-W.
Pacific)

CARYCHIIDAE

Carychium noduliferum Reinhardt, 1877 (Aewol),
(Korea; Japan)

Carychium pessimum Pilsbry, 1902 (Aewol), (Korea;
Japan)

VALLONIIDAE

Vallonia costata (Müller, 1774) ("Jejudo" (Min *et al.*,
2004)), (Eurasia; North America)

STROBILOPSIDAE

Eostrobilops hirasei (Pilsbry, 1908) (Seogwipo,
Gimnyeong), (Korea (endemic?); Japan)

ENIDAE

Ena (Coccoderma) coreanica Pilsbry and Hirase,
1908 ("Jejudo" (Min *et al.*, 2004)), (Korea
(endemic))

CLAUSILIIDAE

Euphaedusa fusaniana (Pilsbry and Hirase, 1908)
(Jungmun, Oedolgae, Andok Valley, Hyupjae,
Sagyei-ri, Udo (Hagosudong)), (Korea (endemic))

SUBULINIDAE

Allopeas clavulinum pyrgula (Schmacker and
Boettger, 1891) ("Jejudo" (Min *et al.*, 2004)),
(Korea; Japan; Taiwan)

Allopeas clavulinum kyotense (Pilsbry and Hirase,
1904) (Namwon, Andok Valley), (Korea; Japan)

STREPTAXIDAE

Sinoennea iwacawa (Pilsbry, 1900) (Gimnyeong),
(Korea; Japan)

SUCCINEIDAE

Oxyloma hirasei (Pilsbry, 1901) (Jongdal-ri), (Korea;
Japan)

HELIXARIONIDAE

Trochochlamys crenulata (Gude, 1900) ("Jejudo"
(Min *et al.*, 2004)), (Korea; Japan; Taiwan)

Gastrodontella stenogyra (A. Adams, 1868) ("Jejudo"
(Min *et al.*, 2004)), (Korea; Japan)

Sitalina circumcincta (Reinhardt, 1883) (Keumsan
Park (S. of Aewol), Kwakji), (Korea; Japan;
China)

Sitalina japonica Habe, 1964 (Keumsan Park (S. of
Aewol)), (Korea; Japan)

Sitalina chejuensis Kwon and Lee, 1991 (Keumsan
Park (S. of Aewol)), (Korea)

Yamatochlamys lampra (Pilsbry and Hirase, 1904)
(Sanbongsan), (Korea; Japan)

Bekkochlamys subrejeta (Pilsbry and Hirase in
Hirase, 1908) ("Jejudo" (Min *et al.*, 2004)),
(Korea; Japan)

Bekkochlamys quepartensis (Pilsbry and Hirase,
1908) (Oedolgae, Donnaeko), (Korea (endemic))

Macrochlamys fusanus Hirase, 1908 ("Jejudo" (Min
et al., 2004)), (Korea (endemic))

Macrochlamys hypostilbe Pilsbry and Hirase, 1909
("Jejudo" (Min *et al.*, 2004)), (Korea)

LIMACIDAE

Limax flavus Linnaeus, 1758 (Hallasan),
(Worldwide)

Limax marginatus Müller, 1774 (Seogwipo),
(Worldwide)

Deroceras reticulatum (Müller, 1774) ("Entire
country" (Min *et al.*, 2004)), (Worldwide)

BRADYBAENIDAE

Aegista (Aegista) chejuensis (Pilsbry and Hirase,
1908) ("Jejudo" (Min *et al.*, 2004)), (Korea;
Japan)

Aegista (Aegista) chosonica (Pilsbry, 1906) ("Jejudo"
(Min *et al.*, 2004)), (Korea; Indo-W. Pacific)

Aegista (Plectotropis) quelpartensis (Pilsbry and Hirase, 1904) (Seogwipo, Bomok, Beophwan, Sehwa, Hamdok), (Korea; Japan)

Trishoplita pumilio (Pilsbry and Hirase, 1909) (Seogwipo), (Korea; Japan)

Acusta despecta sieboldiana (Pfeiffer, 1850) (Seogwipo, Beophwan, Hamdok, Sagyei-ri, Udo (Hagosudong), (Korea; Japan)

Euhadra herklotsi (von Martens, 1860) ("Jejudo" (Min *et al.*, 2004)), (Korea; Japan)

Euhadra dixoni (Pilsbry, 1900) ("Jejudo" (Min *et al.*, 2004)), (Korea; Japan)

Nesiohelix samarangae Kuroda and Miyanaga, 1943 (Jungmun, Seogwipo, Andok Valley, Sanbangsan), (Korea; Japan)

PHILOMYCIDAE

Meghimatium bilineatum (Benson, 1842) (Jeju-shi), (NE Asia; Hawaii (introduced))

Meghimatium fruhstorferi (Collinge, 1901) ("Jejudo" (Min *et al.*, 2004)), (Korea; Japan; China; Taiwan)

CLASS: BIVALVIA

Subclass: PROTOBRANCHIA

Order: NUCULOIDA

NUCULIDAE

Nucula paulula A. Adams, 1856 (Munsom, Supjikoji, Hwasoon, Hamo), (Korea; Japan)

NUCULANIDAE

Nuculana (Thestyleda) subscalata Okutani, 1962 (Songsan), (Korea; E. Japan)

Nuculana (Thestyleda) sagamiensis Okutani, 1962 (Songsan), (Korea; E. Japan)

Sacella gordonis (Yokoyama, 1920) (Songsan), (Korea; Japan; E. Sea)

Order: SOLEMYOIDA

SOLEMYIDAE

Petrasma japonica (Dunker, 1882) (Hwasoon), (Korea; Japan)

Subclass: PTERIOMORPHIA

Order: MYTILOIDA

MYTILIDAE

Mytilus galloprovincialis Lamarck, 1819 (Gimnyeong, Sehwa, Shinchang), (worldwide (temperate zone))

Mytilus coruscus Gould, 1861 (Songsan, Seogwipo), (Korea; Japan)

Perna viridis (Linnaeus, 1758) (Hwasoon), (Korea; Japan; SE. Asia; U.S.A.)

Septifer (Septifer) bilocularis (Linnaeus, 1758) (Udo (Sanhosa), Udo (Hagosudong), Songsan, Sagyei-ri), (Japan to Indo-W. Pacific)

Septifer (Septifer) excisus (Wiegmann, 1837) (Pyosun, Hyupjae, Shinyang, Gimnyeong, Hwasoon, Iho, Daepyong), (Japan to Indo-W. Pacific)

Septifer (Mytilisepta) virgatus (Wiegmann, 1837) (Hwasoon, Sagyei-ri, Samyang, Kwakji), (Korea; Japan)

Septifer (Mytilisepta) keenae Nomura, 1936 (Widely distributed), (Korea; Japan)

Modiolus kurilensis Bernard, 1983 (Songsan, Hwasoon, Hamdok, Sagyei-ri), (Korea; N. Japan to Bering Strait)

Modiolus auriculatus (Krauss, 1848) (Sagyei-ri, Hwasoon), (S. Japan to Indo-W. Pacific)

Modiolus agripetus (Iredale, 1939) (Jungmun, Iho, Udo (Sanhosa), Sagyei-ri, Songsan, Hwasoon, Shinyang, Jongdal-ri, Kwakji), (Korea; Japan)

Hormonya mutabilis (Gould, 1861) (Jungmun, Sehwa, Udo (Hagosudong), Hyupjae, Hwasoon, Sagyei-ri, Songsan), (Japan to Indo-W. Pacific)

Exosiperna kuroharai Habe, 1961 (Songsan), (Korea; S. Japan)

Xenostrobus atrata (Lischke, 1871) (Hamdok), (Korea; Japan; China)

Trichomuscus semigranatus (Reeve, 1858) (Hwasoon), (Japan to Indo-W. Pacific)

Gregariella coralliophaga (Gmelin, 1791) (Songsan), (Japan to Indo-W. Pacific)

Musculus pusio (A. Adams, 1862) (Udo (Hagosudong), Hwasoon, Munsom), (Korea; Japan)

Musculus viridulus (H. Adams, 1871) (Munsom, Hwasoon), (S. Japan to Indo-W. Pacific)

Musculus cumingiana (Reeve, 1857) (Songsan), (S. Japan to Indo-W. Pacific)

Musculus nanus (Dunker, 1856) (Hwasoon), (Japan to Indo-W. Pacific)

^*Musculista senhousia* (Benson, 1842) (Songaksan, Hwasoon, Sagyei-ri (Lee and Hyun, 2002)), (Korea; Japan; SE. Asia; temperate areas worldwide)

^*Lithophaga (Leiosolenus) curta* (Lischke, 1874) (Songaksan, Sagyei-ri (Lee and Hyun, 2002)), (Korea; Japan)

Order: ARCOIDA

ARCIDAE

Arca avellana Lamarck, 1819 (Udo (Sanhosa), Pyosun, Hyupjae, Sagyei-ri, Shinyang, Songsan, Hwasoon), (Japan to Indo-W. Pacific)

^*Arca boucardi* Jousseaume, 1894 (Hwasoon (Lee and Hyun, 2002), Widely distributed (RGN)), (Korea; Japan)

Barbatia (Abarbatia) decussata (Sowerby I, 1833) (Munsom, Songsan, Hwasoon, Sagyei-ri), (Japan to Indo-W. Pacific)

Barbatia (Savignyarca) virescens (Reeve, 1844) (Udo (Hagosudong), Munsom, Udo (Sanhosa), Hamdok, Pyosun, Sagyei-ri, Shinyang, Songsan, Hwasoon, Jongdal-ri), (Japan to Philippines)

Barbatia (Ustularca) stearnsii (Pilsbry, 1895) (Widely distributed), (Japan to Indo-W. Pacific)

Acar plicatum (Dillwyn, 1817) (Hwasoon, Shinyang, Sagyei-ri, Munsom), (Japan to Indo-W. Pacific)

Hawaiarca uwaensis (Yokoyama, 1928) (Hwasoon), (Korea; Japan)

Nipponarca bistrigata (Dunker, 1866) (Hwasoon, Sagyei-ri, Supjikoji), (Japan to Indo-W. Pacific)

Bathyarca anaclima Melvill and Standen, 1906 (Songsan), (Korea; Japan; China; Red Sea; Gulf of Oman)

Samacar strabo (Hedley, 1915) (Songsan), (Korea; Japan; China; Australia)

Scapharca inaequalis (Bruguiere, 1789) (Hwasoon, Jongdal-ri), (Korea; Japan)

^*Scapharca broughtonii* (Schrenck, 1867) (Ojo-ri, Munsom, Bumsom, Supsom (CNU)), (Korea; Japan to E. China Sea)

NOETIIDAE

Striarca symmetrica (Reeve, 1844) (Hamdok, Sehwa, Gimnyeong, Udo (Sanhosa), Pyosun, Shinyang, Udo (Hagosudong), Songsan, Sagyei-ri, Jongdal-ri), (Japan to Tropical W. Pacific)

Didimacar tenebricum (Reeve, 1844) (Udo (Hagosudong), Songsan), (Korea; Japan)

PARALLELODONTIDAE

Porterius dalli (E. A. Smith, 1885) (Songaksan, Hwasoon, Songsan, Sagyei-ri), (Korea; Japan)

LIMOPSIDAE

Oblimopa japonica (A. Adams, 1863) (Seogwipo, Hwasoon, Songsan, Sagyei-ri, Supjikoji), (Korea; Japan; Taiwan)

Nipponolimopsis azumana (Yokoyama, 1910) (Songsan), (Korea; E. Japan)

GLYCYMERIDIDAE

Glycymeris aspersa (Adams and Reeve, 1850) (Yongmeori Coast, Hyupjae, Biyangdo, Beophwan, Gangjung, Hwasoon, Hallim, Supjikoji, Daepyong, Jongdal-ri, Wimi), (Korea; Japan)

^*Glycymeris imperialis* Kuroda, 1934 (Yongmeori Coast, Hwasoon (RGN)) (Korea; Japan)

Glycymeris albolineata (Lischke, 1872) (Jungmun, Udo (Hagosudong), Iho, Songsan, Shinyang, Jongdal-ri, Wimi), (Korea; Japan)

Glycymeris rotunda (Dunker, 1882) (S. of Seogwipo, E. of Songsan, Hwasoon), (Japan to E. China Sea)

^*Tucetonella munda* (Sowerby III, 1903) (Yongmeori Coast, Daepyong, Sagyei-ri, Hwasoon, Jungmun (RGN)), (Korea; Japan)

Order: PTEROIDA

PTERIIDAE

Pteria brevialeta (Dunker, 1872) (Munsom), (Korea; Japan)

Pteria loveni (Dunker, 1872) (Seogwipo, Munsom), (Korea; Japan)

Pteria coturnix (Dunker, 1879) ("All around" (Min *et al.*, 2004)), (Korea; S. Japan)

Pinctada albina (Lamarck, 1819) (Hwasoon), (S. Japan to Tropical W. Pacific)

Pinctada martensii Dunker, 1872 ("All around" (Min *et al.*, 2004)), (Korea; Japan)

Pinctada fucata (Gould, 1850) (Hwasoon, Hyupjae), (Japan to Indo-W. Pacific)

Pinctada nigra (Gould, 1850) (Hwasoon), (Japan to Tropical W. Pacific)

Pterelectrona zebra (Reeve, 1857) (Seogwipo, Munsom), (Japan to Indo-W. Pacific)

ISOGNOMONIDAE

IsoGNomon (IsoGNomon) ephippium (Linnaeus, 1758) (Munsom, Songsan, Sagyei-ri), (S. Japan to Indo-W. Pacific)

PINNIDAE

Pinna (Quantulopinna) muricata Linnaeus, 1758 (Udo (Sanhosa), Hwasoon), (S. Japan to Indo-W. Pacific)

Streptopinna saccata (Linnaeus, 1758) ("All around" (Min *et al.*, 2004)), (Japan to Indo-W. Pacific)

Order: LIMOIDA

LIMIDAE

Lima vulgata Yokoyama, 1922 (Hwasoon), (Korea; Japan)

Lima fujitai Oyama, 1943 (Hwasoon), (Korea; Japan)

Lima zushiensis Yokoyama, 1920 (Songsan), (Korea; Japan)

Ctenoides annulata (Lamarck, 1819) (Jungmun, Iho, Sagyei-ri, Shinyang, Yongmeori Coast, Songsan, Hwasoon), (S. Japan to Indo-W. Pacific)

Ctenoides lischkei (Lamy, 1930) (Jungmun, Kwakji, Iho, Sagyei-ri, Gangjung, Songsan, Hwasoon), (Japan to Indo-W. Pacific)

Limaria (Platylimaria) hirasei (Pilsbry, 1901) (Hwasoon, Songsan, Munsom), (Korea; Japan)

Limatula (Limatula) vladivostokensis (Scarlato, 1955) (Hwasoon), (Korea; Japan)

Limatula (Limatula) nippona Habe, 1960 (Hwasoon, Shinyang), (Korea; S. Japan)

Limatula (Limatula) kurodai Oyama, 1943 (Hwasoon), (Korea; Japan)

Limatula (Limatuleta) japonica A. Adams, 1864 (Shinyang), (Korea; Japan)

Limatula (Stabilima) bullata (Born, 1778) (Hwasoon, Songsan, Shinyang, Sagyei-ri), (Japan to Tropical W. Pacific)

Order: OSTREOIDA

GRYPHAEIDAE

Hyotissa hyotis (Linnaeus, 1758) (Munsom), (S. Japan to Indo-W. Pacific)

Parahyotissa inermis (Sowerby II, 1871) (Munsom, Sagyei-ri, Songsan), (Japan to Tropical W. Pacific)

Parahyotissa chemnitzii (Hanley, 1846) (Munsom, Songsan), (Japan to Tropical W. Pacific)

OSTREIDAE

Ostrea denselammelosa Lischke, 1869 (Hwasoon, Songsan), (Korea; Japan)

Dendostrea folia (Linnaeus, 1758) (Songsan), (Korea; Indo-W. Pacific)

Dendostrea crenulifera (Sowerby, 1878) (Munsom), (Japan to Indo-W. Pacific)

Crassostrea gigas (Thunberg, 1793) (Hwasoon, Jongdal-ri), (E. Asia)

Crassostrea nipponica (Seki, 1934) (Jungmun), (Korea; Japan)

Crassostrea nigromarginata (Hwasoon, Munsom), (Korea; Vietnam; Myanmar (Burma))

Saccostrea kegaki Torigoe and Inaba, 1981 (Kwakji, Hwasoon, Munsom, Iho), (Japan to Indo-W. Pacific)

Striostrea circumpicta (Pilsbry, 1904) (Songsan, Jeju-shi, Hwasoon, Munsom, Iho, Jongdal-ri), (Korea; Japan)

PLICATULIDAE

Plicatula australis Lamarck, 1819 (Sagyei-ri, Shinyang), (Japan to W. Pacific)

Plicatula horrida Dunker, 1882 (Sagyei-ri), (Japan to W. Pacific)

DIMYIDAE

Dimya japonica Habe, 1971 (Hwasoon), (Japan to Tropical W. Pacific)

PECTINIDAE

Chlanys (Scaechlanys) irregularis (Sowerby II, 1842) (Songsan, Sagyei-ri, Jongdal-ri), (Japan to Tropical W. Pacific; Hawaii)

Chlanys (Coralichlanys) jousseauvei (Bavay, 1904) (Sagyei-ri, Hwasoon, Songsan), (Korea; Japan)

Chlanys (Coralichlanys) empressae Kuroda and Habe, 1971 (Songsan), (Korea; Japan)

Chlanys (Azumapecten) farreri farreri (Jones and Preston, 1904) (Songsan, Beophwan, Gangjung), (Korea; Japan; E. Russia)

Chlanys (Azumapecten) farreri nipponensis (Kuroda, 1932) (Kwakji), (Korea; Japan; E. Russia)

Chlanys (Azumapecten) larvata (Reeve, 1853) (Hwasoon), (Japan to Indo-W. Pacific)

Chlanys (Azumapecten) lemniscata (Reeve, 1853) (Jungmun, Sagyei-ri, Udo (Hagosudong), Songsan, Sagyei-ri, Kwakji), (Japan to Indo-W. Pacific)

Decatopecten striatum (Schumacher, 1817) (Kwakji), (Japan to Tropical W. Pacific)

Pecten (Oppenheimopecten) sinensis puncticulatus Dunker, 1877 (Shinyang), (Korea; Japan)

Pecten (Notovola) excavatus Anton, 1838 ("Jejudo" (Min *et al.*, 2004)), (S. Japan to S. China Sea)

Pecten (Notovola) albicans (Schroter, 1802) (Beophwan, Gangjung, Udo (Sanhosa), Udo (Hagosudong), Jungmun, Songsan, Hwasoon, Kwakji, Sehwa, Jongdal-ri), (Korea; Japan)

Anusium japonicum (Gmelin, 1791) (Gangjung, Beophwan, Wimi, Seogwipo, Hwasoon, Munsom), (Korea; Japan; E. Sea (W. Area))

PROPEAMUSSIIDAE

Parvamussium intuscostatus (Yokoyama, 1920) (Songsan), (Korea; Japan)

SPONDYLIDAE

Spondylus varius Sowerby I, 1827 (Hwasoon), (S. Japan to Tropical W. Pacific)

Spondylus barbatus cruentus Lischke, 1868 (Songsan, Jungmun, Udo (Hagosudong), Udo (Sanhosa), Shinyang, Iho, Hwasoon, Jongdal-ri), (Korea; Japan)

Spondylus longitudinalis Lamarck, 1819 (Songsan, Hwasoon (RGN)), (S. Japan to Indo-W. Pacific)

ANOMIIDAE

Monia umbonata (Gould, 1861) (Hyupjae, Udo (Hagosudong)), (Korea; Japan; China)

Subclass: HETERODONTA

Order: VENEROIDA

CHAMIDAE

Chama dunkeri Lischke, 1870 (Udo (Sanhosa), Hwasoon, Songsan, Sagyei-ri, Munsom), (Korea; Japan; Taiwan)

Chama japonica Lamarck, 1819 (Udo (Hagosudong), Iho, Songsan, Sagyei-ri), (Japan to S. E. Asia; Indian Ocean)

Chama fraga Reeve, 1846 (Udo (Sanhosa), Hyupjae, Sagyei-ri, Songsan, Iho, Hwasoon), (Korea; Japan)

Chama limbula Lamarck, 1819 (Jungmun, Udo (Sanhosa), Pyosun, Sagyei-ri, Shinyang, Songsan, Hwasoon, Munsom), (Korea; S. E. Japan)

Pseudochama retroversa (Lischke, 1870) ((Udo (Sanhosa), Pyosun, Shinyang, Songsan, Sagyei-ri, Iho, Jungmun), (Korea; Japan; Taiwan)

Amphichama argentata (Kuroda and Habe, 1958) (Munsom), (Japan to Philippines)

LUCINIDAE

Epicodakia bella (Conrad, 1837) (Kwakji, Songsan, Hwasoon, Sagyei-ri, Iho), (S. Japan to Indo-W. Pacific)

Pillucina (Pillucina) pisidium (Dunker, 1860) (Sehwa, Udo (Hagosudong), Gimnyeong, Hamdok, Pyosun, Hyupjae, Shinyang, Udo, Songsan), (Korea; Japan; Taiwan)

Pillucina (Pillucina) neglecta Habe, 1960 (Songsan), (Korea; S. Japan)

Pillucina (Sydlorina) yamakawai (Yokoyama, 1920)
(Hwasoon, Sagyei-ri), (Korea; Japan)

Wallucina striata (Tokunaga, 1906) (Shinyang,
Songsan, Sagyei-ri, Jongdal-ri), (Korea; Japan)

Myrtea delicatula A. Adams, 1862 (Hwasoon,
Sagyei-ri), (Korea; Japan)

Goninyrtaea japonicum (Habe, 1958) (Songsan,
Sagyei-ri), (Korea; E. Sea (W. Area))

THYASIRIDAE

Thyasira tokunagai Kuroda and Habe, 1951
(Hwasoon, Shinyang), (Korea; Japan)

Parathyasira kawamurai (Habe, 1951) ("Jejudo"
(Min *et al.*, 2004)), (Korea; Japan)

Leptinaxis oyamai Habe, 1962 (Sagyei-ri, Shinyang),
(Korea; Japan; E. Sea (W. Area))

UNGULINIDAE

Cycladicama lunaris (Yokoyama, 1927) (Munsom,
Sagyei-ri, Hyupjae, Shinyang), (Korea; Japan)

^ *Felaniella sowerbyi* (Kuroda and Habe, 1952)
(Munsom (CNU), Hamdok (RGN)), (Korea;
Indo-W. Pacific)

^ *Diplodonta gouldi* Yokoyama, 1920 (Jongdal-ri
(RGN)), (Korea; Japan)

Phylctiderma japonicum (Pilsbry, 1895) (Sehwa,
Iho, Hyupjae, Sagyei-ri, Udo (Hagosudong),
Hwasoon, Songsan), (Korea; Japan)

GALEOMMATIDAE

Scintilla violescens Kuroda and I. W. Taki, 1961
(Munsom, Pyosun, Hwasoon), (Korea; Japan; E.
Sea)

Scintilla timoriensis Deshayes, 1855 (Sagyei-ri,
Hwasoon), (S. Japan to Indo-W. Pacific)

Scintilla nitidella Habe, 1961 (Sagyei-ri, Songsan,
Hwasoon), (Korea; Japan)

LASAEIDAE

Lasaea undulata (Gould, 1861) (Songsan), (Korea;
Japan)

Squillaconcha subsinuata (Lischke, 1871)
(Hwasoon), (Korea; Japan; E. Sea (W. Area))

KELLIIDAE

Kellia porculus Pilsbry, 1904 (Sehwa, Iho, Hamdok,
Shinyang, Songsan), (Korea; Japan)

Nesobornia bulla (Gould, 1861) (Sagyei-ri), (Korea;
S. Japan)

Pseudopythina tsurumaru Habe, 1959 (Munsom,
Hwasoon), (Korea; Japan)

MELLITERYCIDAE

Melliteryx puncticulatus (Yokoyama, 1924)
(Hwasoon), (Korea; Japan)

MONTACUTIDAE

Nipponomysella oblongata (Yokoyama, 1922)
(Hwasoon), (Korea; Japan)

CARDITIDAE

Cardita leana Dunker, 1860 (Widely distributed),
(Korea; Japan; Taiwan)

^ *Megacardita ferruginosa* (Adams and Reeve, 1850)
(Hyupjae (RGN)), (Korea; Japan)

Pleuromeris pygmaea Kuroda and Habe, 1951
(Songsan), (Korea; Japan)

Pleuromeris soyoae (Habe, 1958) (Songsan), (Korea;
Japan)

Carditella (Carditellona) hanzawai (Nomura, 1933)
(Hwasoon), (Korea; Japan)

Carditellopsis toneana (Yokoyama, 1922) (Munsom,
Hwasoon, Supjikoji), (Korea; Japan)

CRASSATELLIDAE

Indocrassatella oblongata (Yokoyama, 1920)
(Hwasoon), (Korea; Japan)

CARDIIDAE

Acrosterigma (Vasticardium) burchardi (Dunker,
1877) (Hyupjae, Hwasoon, Beophwan, Gangjung,
Udo (Hagosudong), Udo (Sanhosa), Sehwa,
Songsan, Sagyei-ri), (Korea; Japan)

Acrosterigma (Vasticardium) arenicola (Reeve, 1845)
(Songsan, Sagyei-ri, Hyupjae, Sehwa, Hwasoon,
Kwakji), (Korea; Japan; Taiwan)

Afrocardium carditaeforme (Reeve, 1845) (Hwasoon,
Songsan, Sagyei-ri, Shinyang), (Korea; Japan)

Trifurcardium nomurai Kuroda and Habe, 1951
(Hwasoon), (Korea; Japan)

Microcardium sakurai (Habe, 1961) (Hwasoon),
(Korea; S. Japan)

Nemocardium bechei (Reeve, 1847) (Bopwhan,
Gangjung, Seogwipo), (Korea; Japan; SE. Asia; N.
Australia)

Fulvia mutica (Reeve, 1847) (Shinyang), (Korea;
Japan; China)

Fulvia hungerfordi (Sowerby III, 1901) (Hwasoon),
(Korea; Japan; E. Sea; S. China)

Fulvia undatopicta (Pilsbry, 1904) (Sagyei-ri,
Kwakji), (Japan to Tropical Pacific)

MACTRIDAE

Mactra (Mactra) chinensis Philippi, 1846 (Widely
distributed), (NE. RUSSIA to S China)

Mactra (Mactra) achatina Holten, 1802 (Hwasoon,
Kwakji, Sagyei-ri, Songsan), (Japan to Indo-W.
Pacific)

Mactra (Telemactra) iridescens Kuroda and Habe in
Habe, 1958 (Jungmun, Kwakji, Hwasoon,
Sagyei-ri), (Korea; S. Japan)

Oxyperas bernardi (Pilsbry, 1904) (Songsan),
(Korea; Japan; Taiwan)

Lutraria (Psammophila) maxima Jonas, 1844
(Hwasoon), (Korea; Japan; Taiwan; SE. Asia)

MESODESMATIDAE

Coccella chinensis Deshayes, 1855 (Hamdok, Sehwa,
Pyosun, Hyupjae, Shinyang Gimnyeong, Songsan,
Jongdal-ri), (Japan to SW. Pacific)

SOLENIIDAE

^ *Solen strictus* Gould, 1861 (Jongdal-ri, Ojo-ri,
Gimnyeong (Choi *et al* 2000)), (Korea; Japan;
China)

TELLINIDAE

Pharaonella sieboldii (Deshayes, 1855) (Hwasoon,
Kwakji, Sagyei-ri, Songsan), (Korea; Japan)

Merisca (Pistris) subtruncata (Hanley, 1844)
(Hwasoon, Supsom), (Korea; Japan)

Cadella narutoensis Habe, 1960 (Hwasoon,
Sagyei-ri), (Korea; Japan)

Cadella delta Yokoyama, 1922 (Hwasoon, Sagyei-ri),
(Korea; Japan; E. Sea (W. Area))

Loxoglypta lauta (Gould, 1850) (Jungmun,
Gimnyeong, Pyosun, Kwakji, Udo, Hyupjae,
Hwasoon, Songsan, Sagyei-ri), (Japan to New
Caledonia)

Elliptotellina euglypta (Gould, 1861) (Hwasoon), (S
Japan to Indian Ocean)

Nitidotellina iridella (Martens, 1865) (Hyupjae,
Kwakji, Udo, Hwasoon, Shinyang, Sagyei-ri),
(Korea; Japan; Taiwan)

Heteromacoma irus (Hanley, 1845) (Gimnyeong,
Sehwa, Udo (Sanhosa), Hamdok, Pyosun, Supjikoji,
Songsan, Iho), (Korea; Japan; China)

SEMELIDAE

Abra maxima (Sowerby, III, 1894) (Hwasoon),
(Korea; W. Pacific; Central and E. Indian Ocean)

Abrina lunella (Gould, 1861) (Hwasoon), (Korea;
Japan; E. China Sea)

Abrina kinoshitai Kuroda and Habe, 1958
(Hwasoon), (Korea; Indo-W. Pacific)

PSAMMOBIIDAE

Heteroglypta contraria (Deshayes, 1863) (Sagyei-ri),
(Japan to Indo-W. Pacific)

Soletellina atrata (Deshayes in Reeve, 1857) (Udo
(Hagosudong), Gimnyeong, Kwakji, Hwasoon),
(Japan to SE. Asia)

^ *Nuttalia japonica* (Deshayes in Reeve, 1857)
(Kwakji, Ojo-ri, Sehwa, Pyosun, Iho (RGN)),
(Korea; Japan; China)

Nuttalia olivacea (Jay, 1856) (Gimnyeong, Songsan,
Hyupjae, Hwasoon, Shinyang, Jongdal-ri), (Korea;
Japan)

SOLECURTIDAE

Solecurtus divaricatus (Lischke, 1869) (Jeju-shi,
Hamdok, Ojo-ri, Shinyang, Hyupjae, Pyosun,
Gimnyeong), (Korea; Japan; Taiwan to S. China)

KELLIPELLIDAE

Alveinus ojiannus (Yokoyama, 1927) (Songsan),
(Korea; Japan)

TRAPEZIIDAE

^ *Coralliophaga coralliophaga* (Gmelin, 1791)
(Jongdal-ri (RGN)), (Japan to Indo-W. Pacific;
West Indies)

GLOSSIDAE

Meiocardia hawaiiiana Dall, Bartsch, and Rehder,
1938 (Hwasoon), (S. Japan to SE. Asia; Hawaii;
Indian Ocean)

VENERIDAE

Venus (Ventricoloidea) cassinaeformis (Yokoyama,
1926) (E. of Songsan, Shinyang, Sagyei-ri),
(Japan to E. China Sea)

Globivenus toreuma (Gould, 1850) (Pyosun,
Sagyei-ri), (Japan to SE. Asia; Hawaii)

Placamen lamellata (Röding, 1798) (Songsan),
(Japan to Indo-W. Pacific)

Timoclea (Glycydonta) marica (Linnaeus, 1758)
(Songsan, Udo (Hagosudong), Iho, Pyosun,
Hyupjae, Kwakji, Songsan, Sagyei-ri, Hwasoon,
Jongdal-ri), (Japan to Indo-W. Pacific)

Timoclea (Chioneryx) costellifera (A. Adams and
Reeve, 1850) (Hwasoon), (Japan to Indo-W.
Pacific)

Protothaca (Notochione) jedoensis (Lischke, 1874)
(Songsan, Jongdal-ri), (Korea; Japan; China)

Pitar (Pitarina) affine (Gmelin, 1791) (Shinyang,
Hwasoon), (Korea; Japan)

Pitar (Pitarina) sulfureum Pilsbry, 1904 (Songsan),
(Japan to W. Pacific)

Callista chinensis (Holten, 1803) (Hwasoon), (Korea;
Japan; S. China)

Callista pilsbryi Habe, 1960 (Hwasoon, Supsom,
Jungbang Waterfall area), (Korea; Japan; Taiwan
to S. China)

Saxidomus purpurata (Sowerby II, 1852) (Ojo-ri),
(Korea; Japan; S. China)

Phacosoma japonicus (Reeve, 1850) (Ojo-ri), (Korea;
Japan; S. China)

Phacosoma troscheli (Lischke, 1873) (Beophwan,
Gangjung, Kwakji, Songsan, Hwasoon, Sagyei-ri),
(Korea; Japan; S. China)

Pardosinia amphidesmoides (Reeve, 1850)
(Sagyei-ri), (Japan to Indo-W. Pacific)

Bonartemis histrio histrio (Gmelin, 1791) (Sehwa,
Udo (Hagosudong), Sagyei-ri, Shinyang, Hwasoon),
(Korea; S. Japan; SE. Asia; N. Australia)

Bonartemis histrio iwakawai Oyama and Habe, 1961
(Jungmun, Shinyang, Sagyei-ri, Hwasoon), (Korea;
Japan)

Ruditapes philippinarum (A. Adams and Reeve,
1850) (Widely distributed), (Korea; Japan; China)

Ruditapes bruguieri (Hanley, 1845) (Widely
distributed), (Korea; Japan; SE. Asia)

Paphia euglypta (Philippi, 1847) (Biyangdo,
Gangjung, Beophwan), (Korea; Japan; S. China)

^ *Paphia schnelliana* (Dunker, 1865) (Ojo-ri (Choi
et al 2000)), (Korea; Japan; E. China Sea)

Paphia amabilis (Philippi, 1847) (E. of Songsan,
Hwasoon, Songsan), (Korea; Japan; S. China)

Paphia vernicosa (Gould 1861) (Sagyei-ri, Songsan,
Jongdal-ri), (Korea; Japan)

Gomphina (Gomphina) neastartoides (Yokoyama,
1922) (Hwasoon, Biyangdo, Sagyei-ri), (Japan to
Indo-W. Pacific)

Gomphina (Macridiscus) veneriformis (Lamarck,
1818) (Widely distributed), (Korea; Japan; Taiwan
to S. China)

Irus irus (Linnaeus, 1758) (Widely distributed),
(Korea; S. Japan; SE. Asia)

Irus mitis (Deshayes, 1853) (Udo (Hagosudong),
Hamdok, Songsan, Hwasoon, Sagyei-ri, Jongdal-ri,
Kwakji), (Korea; Japan)

Irus ishibashianus Kira, 1959 (Hwasoon, Songsan,
Sagyei-ri, Jongdal-ri), (Korea; Japan)

^ *Cyclina sinensis* (Gmelin, 1791) (Ojo-ri, (Choi *et
al* 2000), Jongdal-ri (RGN), (Korea; Japan; S.
China)

PETRICOLIDAE

Pseudoirus mirabilis (Deshayes, 1853) (Shinyang),
(Korea; Japan)

Order: MYOIDA

MYIDAE

Sphenia coreanica Habe, 1951 (Hwasoon), (Korea; Japan)

Paranya recluzi (A. Adams, 1864) (Hwasoon), (Korea; Japan; E. Sea (W. Area))

CORBULIDAE

Varicorbula rotalis (Reeve, 1843) (Songsan), (Japan to Tropical W. Pacific)

Varicorbula yokoyamai Habe, 1949 (Hwasoon), (Korea; S. Japan)

GASTROCHAENIDAE

Gastrochaena (Gastrochaena) cuneiformis Spengler, 1783 (Supjikoji), (Japan to Indo-W. Pacific)

Gastrochaenad (Curcubitula) cymbium (Spengler, 1783) (Supjikoji, Hwasoon, Udo), (Japan to Indo-W. Pacific)

HIATELLIDAE

^ *Hiatella orientalis* (Yokoyama, 1920) (Sagyei-ri (RGN)), (Korea; Japan; Taiwan; SE. Asia)

PHOLADIDAE

Martesia striata (Linnaeus, 1758) ("Jejudo" Min *et al.*, 2004), (Japan to Indo-W. Pacific; Australia; Atlantic)

^ *Neoxylophaga rikuzenica* (IW. Taki and Habe, 1945) ("Jejudo" (Kwon and Lee, 1993)), (Korea; Japan)

TEREDINIDAE

Teredora princesae (Sivickis, 1928) (Sagyei-ri), (Japan to Indo-W. Pacific; E. Pacific)

Teredora malleolus Turton, 1822 (Sagyei-ri), (Korea; Atlantic; Mediterranean)

Uperotus clavus (Gmelin, 1791) (Sagyei-ri), (Korea; Indo-W. Pacific)

Subclass: ANOMALODESMATA

Order: PHOLADOMYOIDA

THRACIIDAE

Trigonothracia pusilla (Gould, 1861) (Hwasoon),

(Korea; Japan)

Asthenothaerus sematana (Yokoyama, 1922) (Songsan), (Korea; Japan)

LYONSIIDAE

Agriodesma navicula (Adams and Reeve, 1850) (Hwasoon, Songsan, Sagyei-ri), (Japan to SE. Asia)

PANDORIDAE

Pandora otukai Habe, 1952 (Songsan), (Korea; Japan)

MYOCHAMIDAE

Myadora japonica Habe, 1950 (Sagyei-ri, Hwasoon), (Korea; Japan)

Myadora soyoae Habe, 1950 (Hwasoon, Sagyei-ri), (Korea; S. Japan)

Myadropsis transmontana (Yokoyama, 1822) (Sagyei-ri, Hwasoon), (Korea; Japan; E. Sea (W. Area))

Myadropsis dissimilis Habe, 1960 (Hwasoon, Sagyei-ri), (Korea; Japan)

Myadropsis brevispinosa Habe, 1962 (Hwasoon, Sagyei-ri), (Korea; Japan)

POROMYIDAE

Poronya flexuosa Yokoyama, 1922 (Songsan), (Korea; Japan)

CUSPIDARIIDAE

Cardionya kashimana Okutani and Sakura, 1964 (Hwasoon), (Korea; Japan)

Plectodon ligulus (Yokoyama, 1922) (Hwasoon), (Korea; Japan)

CLASS: SCAPHOPODA

Order: DENTALIIDA

DENTALIIDAE

Dentalium (Paradentalium) buccinulum Gould, 1859 (Jungmun, Songsan, Hwasoon, Sagyei-ri), (Korea; Japan)

Antalis tibanum Nomura, 1940 (Hwasoon, Samyang, Songsan), (Korea; Japan)

Antalis tosaensis Habe, 1963 (Songsan), (Korea; S. Japan)

Striodentalium rhabdotum (Pilsbry, 1905)
(Songsan), (Japan to E. China Sea)

Order: GADILIDA

ENTALINIDAE

Entalina mirifica (E. A. Smith, 1895) (Seogwipo
(Jungbang Waterfall area), Hwasoon, Songsan),
(Japan to Tropical W. Pacific)

Entalinopsis intercostata (Boissevain, 1906)
(Songsan), (Japan to Tropical W. Pacific)

Megaentalina cornucopiae (Boissevain, 1906)
(Hwasoon), (S. Japan to Tropical W. Pacific)

GADILIDAE

Siphonodentalium isaoTakii Habe, 1953 (Hwasoon),
(Korea; Japan)

CLASS: CEPHALOPODA

Order: SEPIOIDEA

SEPIIDAE

^ *Sepia (Platysepia) esculenta* Hoyle, 1885 (Hagwi,
Songsan, Pyosun (RGN)), (W. Japan to S. China
Sea)

Sepia (Doratosepion) peterseni Appellof, 1886
(Songsan, Sagyei-ri, Pyosun), (Korea; Japan)

Sepia (Doratosepion) kubiensis Hoyle, 1885 ("Jejudo"
(Min *et al.*, 2004)), (Korea; Japan)

Sepia (Doratosepion) longipes Sasaki, 1913
(Hwasoon, Pyosun), (Japan to E. China Sea)

Sepia (Doratosepion) tenuipes Sasaki, 1929
(Songsan, Sagyei-ri), (Korea; Japan)

SEPIOLIDAE

Euprymna morsei (Verrill, 1881) (Hwasoon), (Korea;
Japan)

Order: TEUTHOIDA

LOLIGINIDAE

Sepioteuthis lessoniana Lesson, 1830 ("Around
Jejudo" (Min *et al.*, 2004)), (Japan to Indo-W.
Pacific)

Loligo (Heterololigo) bleekeri Keferstein, 1866
("Jejudo" (Min *et al.*, 2004)), (Japan to Yellow and
E. China Seas)

Loligo (Heterololigo) edulis budo Wakiya and
Ishikawa, 1921 ("Around Jejudo" (Min *et al.*,
2004)), (Korea; S. Japan to SW. East Sea)

Order: OCTOPODA

OCTOPODIDAE

Octopus vulgaris Cuvier, 1797 (Munsom), (Korea;
Japan; Worldwide?)

Octopus parvus Sasaki, 1917 ("Jejudo" (Min *et al.*,
2004)), (Korea; Japan)

Octopus luteus (Sasaki, 1920) ("Jejudo" (Min *et al.*,
2004)), (E. Japan to Philippines)

Octopus (Enteroctopus) doffeini (Wülker, 1910)
(Munsom), (Korea; Japan to Subarctic Pacific)

Hapalochlaena fasciata (Hoyle, 1886) ("Jejudo" (Min
et al., 2004)), (Korea; SE. Japan)

ARGONAUTIDAE

Argonauta argo Linnaeus, 1758 (Gwakji),
(worldwide in warm water areas)

Argonauta hians (Lightfoot, 1786) (Sagyei-ri),
(Japan to Indo-W. Pacific)

DISCUSSION

1. Numerical Data

A total of 1,072 species and subspecies are recorded from Jeju Island, 1,015 marine species and 57 land and freshwater species. There are 812 gastropods, of which 755 are either entirely marine or, as in the case of the Truncatellidae, Ellobiidae, and other similar families, have marine affinities. Of those the Pyramidellidae are best represented with 64 species, followed by the Trochidae and Ovulidae with 45 and 29 species respectively. The bivalves are represented by 225 species, with the Veneridae (28), Mytilidae (25), and Arcidae (12) having the largest number of species. Among the smaller classes there are sixteen Cephalopoda, eleven Polyplacophora, and eight Scaphopoda.

There is a wide variation in the relative richness of the mollusc fauna at the various localities. For example, one survey of the beach at Sagyei-ri yielded 90 species, while four surveys of Gimnyeong Beach yielded only 43. However, Hwasoon Beach, which has been surveyed on several occasions since the winter of 2001, has the richest mollusk fauna on the island.

Of particular note is the absence of some of the more common, edible mainland species, eg. *Rapana venosa* Valenciennes 1846 and *Meretrix* spp., because of the relative lack of muddy substrates.

2. Faunal Affinities

1) Marine Mollusks

An examination of the world distributions of the species recorded from Jeju Island reveals two distinct faunal influences. The Japonic faunal province extends from southern Hokkaido through Japan to Korea and northeastern China (Corpus Christi Museum, 2005). The mainly tropical Indo-West Pacific province extends through the western Pacific, from southern Japan to northern Australia, and through the Indian Ocean to East Africa and the Red Sea (Corpus Christi Museum, 2005). However, many species that are found in the tropical western Pacific have not been recorded from the Indian Ocean. The northern Pacific part of this province also includes some subtropical areas, such as southern Japan, with its accompanying islands, and northern Taiwan (Lee and Chao, 2003). Although Korea overall is part of the warm temperate Japonic province, Jeju Island has strong subtropical and tropical affinities. Approximately half of the marine mollusks recorded here have a southern distribution. Of the three smaller classes, the Polyplacophora and Cephalopoda are mainly warm temperate species, while about half of the Scaphopoda are tropical or subtropical species. The same holds true for the Gastropoda and Bivalvia, of which about half are species that extend either to the subtropical western Pacific or throughout the tropical Indo-West-Pacific province. Only a very few species have a northern, or boreal, distribution.

Of the major gastropod families, the Pyramellidae show an almost exclusively Japonic affinity. The Trochidae are split almost evenly between warm temperate, and tropical and subtropical species, while the Ovulidae are mainly a tropical and subtropical family. As for the bivalves, the Veneridae exhibit a tropical and subtropical affinity, as does the Arcidae. However, the faunal affinities of the Mytilidae are split almost equally between the Japonic and Indo-West Pacific provinces.

There are also some faunal relationships with other regions besides Japan. Approximately 25% of the mollusks recorded from northeastern Taiwan, which has a subtropical fauna, are also found on Jeju Island (Lee and Chao, 2003). Many of the mollusks recorded from northeastern China are also found in Korea (Chi, 1989). In 2004 the senior author conducted several surveys in the area of the Shandong and Liaodong Peninsulas, Bohai Sea, a warm temperate area, which revealed that almost half of the mollusks collected there are also found on Jeju Island.

This blending of faunas suggests that Jeju Island is part of a transition zone between the Japonic and Indo-West Pacific faunal provinces that also includes parts of southern Japan.

Many more areas will have to be surveyed before any specific distribution patterns for the island are revealed. Most families appear to have an island-wide distribution. However, it appears that the mainly tropical and subtropical families, such as Cypraeidae, Ovulidae, Conidae, and Terebridae, are found mainly in the southern half of the island, which experiences somewhat warmer sea temperatures. The area around Munsom has the warmest sea temperatures, and many species which have a southward distribution, including most of the Cypraeidae and Ovulidae, have been found here, mainly by SCUBA diving (Koh, 1999). Indeed, this area is the only locality for most of those species, and also for most of the Nudibranchia which have been collected from Jeju Island (Rudman, 2004). Perhaps more extensive surveys will result in wider distribution patterns but, for the present, Munsom

is unique for its relatively large number of warm water species.

2) Land and Freshwater Mollusks

Compared to mainland Korea, Jeju Island has a relatively small terrestrial fauna. The operculate gastropods, belonging to the order Architaenioglossa, comprise 6 families, containing a total of 16 species. Most of those species belong to the Diplommatinidae and Cyclophoridae, with 5 species and 4 species respectively. The majority of terrestrial species belong to the order Eupulmonata, which, on the island, has 12 families with a total of 33 species. Of those, the Helixarionidae and Bradybaenidae are the largest, with 10 and 8 species respectively. Thus the total terrestrial mollusk fauna is comprised of 49 species belonging to 18 families.

The freshwater mollusk fauna is even more depauperate. This is because of the relative absence of standing water in the form of lakes and ponds, and because the rivers are dry for most of the year due to the porous nature of the volcanic rock which comprises most of the island. There is a total of only 8 species in 4 families. Only one operculate mollusk, belonging to the Pleuroceridae, has been recorded, and 3 families of the order Basommatophora, containing 7 species. It appears that no freshwater bivalves have been recorded from Jeju Island. Land and freshwater species may sometimes be found on the beaches, having been washed there during periods of heavy rain.

Although several species are endemic to Korea, most of the terrestrial mollusks are restricted in distribution to Korea and Japan; thus they belong to the Palearctic faunal province which extends from western Europe and North Africa to northeastern Asia (Radford University, 1999). However, a few species have affinities with the Oriental Province (Radford University, 1999), extending south to Taiwan and Southeast Asia. Some species have a very wide distribution, such as *Meghimatium bilineatum*, which is found throughout northeast Asia, and *Vallonia costata*, which also occurs in North America, giving it a Holarctic (Palearctic and

Nearctic) distribution (Radford University, 1999). The three species of Limacidae, which originated in Western Europe, have been introduced throughout the world, mainly in the temperate regions.

Most of the freshwater mollusks are widely distributed. The single member of the Physidae, *Physa acuta*, has a worldwide range, and two of the three lymnaeids have a Holarctic distribution. Also, two of the three species of Planorbidae, and the single pleurocerid, have been recorded from several regions in Asia. Only two freshwater species are restricted to the Korea-Japan-Taiwan area.

CONCLUSION

There are, no doubt, other faunal lists from specific localities for Jeju Island in the literature. However, we believe that the results from our surveys, and the localities from the selected publications and websites we have included, give a good overview of the mollusk fauna of this island. More surveys are planned for the future and there are many more mollusks to be identified. Therefore, this is very much "a work in progress", and we look forward to other malacologists and fieldworkers to add their efforts to the contribution we have made.

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Many people assisted in the island-wide field surveys and, without their assistance, this catalogue would be lacking, both in areas sampled, and number and variety of species obtained. We especially appreciate the efforts of John Dellanno, who, through seven months of intensive collecting, surveyed not only the northern coast of the island, which has not received the same attention as the southern coastal areas, but also the eastern part as well. Many areas were visited several times and comprehensive collections were obtained. We owe much to his dedication, enthusiasm, and field expertise.

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