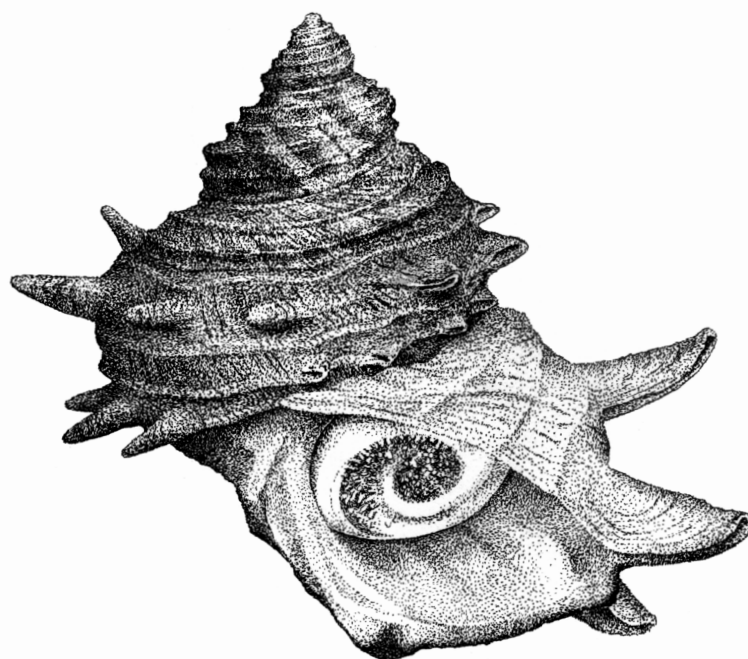


CATALOGUE and BIBLIOGRAPHY  
of the  
MARINE SHELL-BEARING MOLLUSCA  
of  
JAPAN

GASTROPODA • BIVALVIA • POLYPLACOPHORA • SCAPHOPODA



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The vast and varied molluscan fauna of the Japanese islands and surrounding area presents scientists and collectors alike with a considerable challenge. Japan is a long chain of islands with climate zones ranging from sub-tropical to sub-arctic, supporting one of the widest ranges of molluscan families to be found in any country.

Japanese molluscan literature published up to the late nineteenth century consisted largely of illustrated books with captions and text in Japanese. This was due to the severe limitations on travel overseas and contact with foreigners imposed by the government of successive Shōguns starting over two centuries earlier. The legacy of this isolation from the outside world continued to handicap Japanese scientists even after the gradual liberalisation of the 1860s and 70s; in particular, the compilation of libraries of Western works on the Mollusca got off to a relatively late start. During the latter part of the nineteenth century, however, authors from outside Japan made considerable progress in formally classifying the molluscan fauna with a series of fine illustrated works (Dunker, 1861; Lischke, 1869; Pilsbry, 1895 *etc.*; for an overview of early works see Cosel, 1998).

In the first half of the twentieth century a number of regional checklists and collection catalogues appeared (Iwakawa, 1900-05; Iwakawa, 1919; Yokoyama, 1931-a *etc.*), but it was not until after World War II that a serious attempt was made to synthesise the entire fauna. In 1952, under the auspices of the Natural Resources Section of the Supreme Commander for the Allied Powers, Dr. Tokubei Kuroda and his assistant Tadashige Habe published the 'Check List and Bibliography of the Recent Marine Mollusca of Japan'. This extensive listing of species, laboriously typed and printed privately by Leo Stach, was a truly heroic effort. Dr. Kuroda, whose career in the world of shells had started at fifteen years of age in 1901 as an assistant to the merchant and collector Shintaro Hirase in Kyōto, would continue to publish and be active in Malacology until his hundredth birthday. Prior to the 'Check List' he had already issued his 'Illustrated Catalogue of the Japanese shells' (1929-35) as a series of supplements in the newly-founded 'Venus', the journal of the Malacological Society of Japan, and in 1949 had commenced his 'Illustrated Catalogue of Japanese Shells', a series of monographs of individual families by various authors, which appeared in parts until 1955. Dr. Habe, in 1952 a member of staff at Kyōto University and already a prolific author, would in his turn go on to become president of the Malacological Society of Japan and an internationally-acknowledged authority on molluscan phylogeny.

In 1973, Shun'ichi Higo, a private collector and author from Isahaya in western Kyūshū, published 'A Catalogue of

Molluscan Fauna of the Japanese Islands and the Adjacent Area'. This work too was in the form of a checklist, and its purpose was partly to update that of Kuroda and Habe. Mr. Higo's book, printed in Japanese with Latin and English notation, was followed in 1993 by 'A Systematic List of Molluscan Shells from the Japanese Islands and the Adjacent Area', a collaborative venture between the original author and Mr. Yoshihiro Gotō, a collector and author from Ōsaka. In the twenty years separating the two works the number of species listed had grown to over 10,000, and the scope had expanded to include freshwater and terrestrial Mollusca. The 'Systematic List' drew on many new records and a larger body of literature than its predecessor, and is in widespread use today among collectors, researchers and museum curators both in Japan and abroad.

### Scope of the present work

For largely logistical reasons, the present authors have limited the scope of this work to the marine shell-bearing molluscan groups: Polyplacophora, Gastropoda (excluding Nudibranchia), Bivalvia and Scaphopoda. Though a few Cephalopoda bear shells, the group is not treated here. The bibliography has been greatly expanded, and, in the spirit of the original 'Check List', the book is entirely in English. It must be stressed at the outset that the present work is a synthesis of existing literature, and that relatively little original research into phylogeny at any level has been carried out by the authors themselves. The taxonomical arrangement at genus-group and higher level is based on previously published schemes, here fully set out and acknowledged. Distribution records have in some cases been augmented by data from the authors' own collections, as well as personal communications from other collectors and scientists, but as far as possible inclusion of a species is supported by at least one published record.

One unavoidable consequence of basing a work of this kind primarily on literature rather than on independent field and laboratory research is that the number of species recorded will almost certainly exceed that actually present in Nature. Though studies of the genetic structure of the Mollusca are producing promising results, no single foolproof method exists yet to determine whether visually differing specimens represent separate species. New names and new treatments of old ones continue to appear at a steady rate, however, and revision of the existing literature to accommodate new research is a never-ending task. Any work compiled from published accounts without critical revision will thus inevitably incorporate a larger number of species than the more conservative among its readers would acknowledge, and the

present volume is no exception. As the basic aim of the present work is to provide an overview of the entire published fauna as a general resource for researchers, this state of affairs was nevertheless felt by the present authors to be preferable to the discarding or synonymising of names according solely to their own inadequately-informed judgments.

### **Criteria for inclusion of species**

The geographical range covered by this book includes the coastal waters of Japan and immediately adjacent sea areas not separated by any major feature such as a trench or island chain. A number of species not recorded from waters within the present national borders of Japan are therefore included. In compiling the species distribution records the authors imply no judgement or comment on the legitimacy of national frontiers, past or present. The possession of a number of pieces of territory such as the Senkaku islands and the southern Kuril Islands is currently the subject of dispute, but Nature acknowledges no frontiers and the authors have not felt bound to restrict the scope of this work to 'Japan' as defined politically. The species listed do not include those known only from Korea, Taiwan or the continental coast of the Japan Sea; though as the majority of species known from these areas are also distributed in Japan, they are present anyway. As shown in the distribution maps, the area covered by this work has been subdivided into coded zones to allow simple assessment of distribution and any species occurring in one or more of these zones is treated here.

Species which appeared in Higo (1973) and Higo & Gotō (1993) have been excluded from the present work if they are based on a fossil type and there are no published Recent records. The numerous unpublished ('MS') names which appeared in these and the works from which they in turn were compiled have similarly been omitted.

As far as has proved possible, in cases where a species originally described from outside Japan is included on the strength of a single published account, the relevant citation is given and judgement as to the validity of the record is left to the reader. During the preparation of this work and the planned volume of plates, a large number of type specimens have been photographed and where important information was found in museum records it is reproduced here.

The original descriptions of Mollusca from Japan vary widely in quality, from the carefully-compiled accounts of naturalists working with well-documented expedition material such as Martinus Schepman and Robert Watson to descriptions based on individual specimens by amateur collectors in obscure journals. One major problem is the work of Arthur Adams, the brevity and vagueness of many of whose descriptions was already the target of scathing criticism by Henry Pilsbry in the

introduction to his 'Marine Mollusks of Japan' (1895). Adams often made up in quantity for what his work lacked in quality, however, describing almost 700 species from Japan and adjacent areas. Considerable progress has been made in recent years towards tracing Adams' type material and matching specimens to descriptions (Makiyama, 1929; Tomlin, 1932; Kuroda & Habe, 1954-a; Trew, 1992 and others), but the task is far from complete and even the most optimistic reviewer of Adams' work must concede that the types of many of his species are probably lost.

A further difficulty in working with Japanese molluscs is that many authors, both in Japan and abroad, worked from material in museums and private collections which bore only vague data. Though little of Hugh Cuming's vast collection is thought to have come from the area around Japan, the collections of others including Stearns and Hilgendorf were full of poorly-labelled Japanese material. The shells sent abroad in large numbers for identification (and subsequent publication by Pilsbry and others) by Shintaro Hirase were usually accompanied only by very brief data; and many shells collected during the voyage of Captains Ringgold and Rodgers and described by A. A. Gould (1859-61) along with others collected by W. Stimpson and A. Adams were marked simply 'China Seas'.

### **Synonymy**

The present work having been compiled and produced entirely privately, with severe constraints on both time and finance, it has been necessary to adopt the subjective synonymy of species-, genus- and family-group names chiefly from existing works by other authors. These are listed by author and date at the beginning of the relevant groups. The present authors have, as far as possible, investigated the synonymy and satisfied themselves as to its validity; where it is felt that cited authors synonymised species without sufficient regard to the Japanese fauna, their status has been restored. Readers are referred to the cited works for more detailed accounts.

### **Type localities and distribution of species**

The type locality data has, where appropriate, been paraphrased to conform to modern usage. Data is often quoted verbatim within single quotation marks but where necessary the current place names as given in the Oxford Hammond Atlas of the World (1994 edition) have been added. In cases where two names are regularly applied to the same place, such as the Senkaku (Japanese) or Tiao-Yu-Tai (Chinese) islands, both are given with no particular priority. Older Western names for Japanese and Chinese places such as 'Bonin islands' (Ogasawara islands) or 'Amoy' (Xiamen) are given with their modern equivalents. Locality information originally

in languages other than English has been translated where necessary by the present authors as far as their limited abilities allow, and the translation is given in parentheses. Sadly, perceptions of the geography of the 'Far East' were fairly dim in the days of Linnaeus and Lamarck, and even with reference to maps in common use among navigators and scholars of the day it is nowadays impossible to localise such vague indications as 'les mers des Grandes Indes' or '*O. Asiae*'.

Where subsequent authors have restricted or redesignated type localities, their modifications are given here.

Japan is currently divided into 47 prefectures, a system dating from 1871. Before that, the country was made up of 66 provinces or *Kuni*, which in most cases bore different names to the modern prefectures. Unfortunately, a number of Japanese malacologists and collectors have perpetuated the use of the old province names in articles and on labels, with predictably confusing consequences. Among the more frequently-used province names are 'Kii' (now southern Wakayama prefecture in central Honshū), 'Tosa' (now Kōchi prefecture, southern Shikoku) and 'Ōsumi' (now part of Kagoshima prefecture, southern Kyūshū, including the Tokara and Amami islands). Further problems are caused by the naming of vaguely-defined sections of coastline, and the subsequent use of these names in literature. Examples which appear in molluscan literature are the Sanriku coast (a section of the Pacific coast of Iwate and northern Miyagi prefectures, northeastern Honshū; further subdivided into Rikuzen, Rikuchū and Rikugo), the Echizen coast (Japan Sea, off Fukui and Ishikawa prefectures in central Honshū, also divided into Echizen, Etchū and Echigo) and the Kita-Nagato coast (northern Yamaguchi prefecture, western Honshū) among many others. Areas of sea off a particular district or region often bear names with the suffix *-nada*, corresponding to the English 'Bight' or 'Gulf'; these are also frequently cited in Japanese literature, and can be found on the distribution maps in the present work.

#### Guide to the main text

At each species entry, the distribution records are given in order, beginning with records from within the area covered by the distribution maps. A semi-colon is followed by records from elsewhere. In their 'Check List', Kuroda and Habe divided Japan and its environs into the following regions : 'P : The Pacific Coast area of Japan, and regions beyond the northern and southern limits of Japan Proper, bordering the Pacific Ocean. J : The Japan Sea coast of the main Japanese Islands and Sakhalin Island... K : The west coast of Korea, bordering the Yellow Sea. KJ : The east coast of Korea, bordering the Japan Sea'.

The various zones were then represented by their code letters

and a figure or figures denoting latitude in degrees, thus : P34-36. This system was subsequently used by other Japanese authors (Ōyama 1973, *etc.*). Where these records are cited in the present work, 'P' is given as 'Pacific coast' and 'J' as 'Japan Sea coast'.

Where no other distribution record exists than that given in the 'Check List', this is noted. It has always seemed likely that Kuroda and Habe in some cases took a Japanese type locality alone as confirmation of distribution of a species in Japan, and that the Check List represents as much a summary of existing literature as a work of original research. This is especially likely in the case of species named by Adams, some of which lack both type material and adequate figures. In recent conversation with the senior present author, Prof. Habe confirmed that such was in fact often the case, and that a record using a single degree of longitude in the Check list may only indicate a Japanese type locality in the original description. Where Kuroda and Habe gave a range of longitudes for a species, however, it seems reasonable to suppose that this was based on a number of separate records and that distribution in Japan had thus been confirmed by them.

The depth and habitat data given here, while as accurate as possible, are intended as a general guide rather than definitive limits. Where significant differences in depth or habitat are known to exist between locations these are noted alongside the individual distribution records; otherwise the figures may be held to apply to the entire range. No comment is made concerning the relative abundance or rarity of species.

#### Japanese names

In order to facilitate communication between Japanese workers and their colleagues abroad, the Japanese name (and synonyms where appropriate) for each species is given in the present work. At the colloquial level Japanese names remain in more common use than their Latin counterparts among collectors and scientists in Japan, but until now no comprehensive alphabetic index of them has been available. In compiling the present work the authors considered the inclusion of such an index to be an important feature, but here also a note of caution must be sounded. In the past, the identification by Japanese researchers and collectors of shells supposedly representing species originally described in Western literature has often been carried out using their Japanese names, without recourse to the primary literature. The relative difficulty of access to Western works experienced by early Japanese workers in Malacology has been compounded by the tendency of collectors and museum curators as well as the authors of various popular books to work chiefly in Japanese, and this has inevitably led to the



repeated misidentification of many species. Many Japanese shell books (among them some of the standard works used by collectors and curators to identify specimens from figures) bear no dates alongside authors' names and are full of spelling mistakes. Whereas incorrect Japanese names are soon pointed out and rectified, errors among scientific names are often ignored, and compounded by the unrevised reprinting of figures and captions in subsequent editions. A Japanese name exists for the vast majority of the species listed in the present work, but as the identity of the species to which the Japanese name is regularly applied may not have been confirmed from primary literature at the time the Japanese name was created, it is not possible to guarantee that all Japanese names given alongside a particular scientific name are actually based on examples of the species represented by the type or original figure. Nowadays, whenever a new species is published in the Japanese literature, a new Japanese name is normally created too; in such cases the Japanese name obviously refers to the species represented by the accompanying figure. Japanese names, however, have also been applied retroactively to species published elsewhere, and in cases where proposed new species turn out to be homonyms of already-existing names, efforts are rarely made to suppress or synonymise the superfluous Japanese name. No formal system such as the ICZN exists to judge the validity of Japanese names, and they thus do not represent a stable system of nomenclature; nevertheless, their continued widespread use (at all taxonomical levels) in formal literature makes it difficult for workers in Japanese Malacology to disregard them. The present authors consider either the establishment and maintenance of an Official Register of Japanese names or their complete abolition in literature a most urgent and desirable goal.

Where two or more Japanese names exist for a species, they are given in their order of original appearance with priority given to the oldest. Their authors and dates are not cited, principally to avoid bestowing a legitimacy on this system which it does not deserve. Japanese authors regularly create new Japanese names for un-named species figured and described in taxonomically valid published works (as '*sp.*' or '*sp. cf.*') but names created for formally undescribed species are discarded in the present work, together with all Japanese group names above species level.

Hyphenation has been used at the present authors' discretion to break up long Japanese names into their components; for example '*Koshidaka-tama-gai*' (Tall-jewel-shell) or '*Kuchimurasaki-tama-gai*' (Purple-mouthed-jewel-shell). There is no hyphenation - indeed no spacing between words at all - in written Japanese, and long compound names such as these are very difficult for non-native speakers to pronounce if they are

not somehow broken up. Japanese species names, while not regularly binominal, have a reasonably consistent etymology and common elements can often be identified. Like Western 'popular names' they tend to be descriptive, with frequent use of terms such as *chibi-* (small), *usu-* (thin or pale), *hoso-* (slender) and so on. There are some purely lyrical names too, with references to princesses (*Otohime*), tigers (*Tora*) and the legendary sea-floor palace of the dragon king (*Ryūgū*). Other common terms include *nise-*, *-damashi* and *-modoki*, all of which mean 'false' or 'fake', and *Ō-* which means large. The common suffix *-kai* or *-gai*, which simply means 'shell' is often optional. Many current Japanese names predate Linnaeus by hundreds of years, and some have been in regular use since the tenth century; synonyms and regional variants abound, and with Japanese cuisine so memorably marine in nature most ordinary Japanese people can correctly identify a surprising number of molluscan species.

### The transcription of Japanese : Tiba or Chiba?

Much of the text of the present work has been translated from Japanese, a language written using a complex mixture of Chinese and Japanese characters which can only be mastered via extensive study. In order for Japanese names and terms to be read and pronounced by speakers of other languages, they must be transcribed - normally into the Roman alphabet. Japanese shell names are traditionally written using the Japanese *Kana* characters, a simple set of symbols which represent sounds. It should be a straightforward task to transcribe these characters using the alphabet, especially as Japanese pronunciation is absolutely regular, but at present two quite different sets of rules for doing this exist. This confusing situation warrants a little explanation. Following the opening of Japan to trade from abroad in the latter part of the nineteenth century, two systems were created independently of each other which permit Japanese to be written using the alphabet: 'Kunrei' and 'Hepburn', the latter subsequently modified into the 'Hyōjun' system. (A third system, 'Nippon', is similar to Kunrei; it is now almost extinct). Both systems work by reproducing phonetically the sounds of spoken Japanese using the alphabet, but they differ greatly in their treatment of certain syllables. Under the Kunrei and Nippon systems, words are spelt in a way which seeks to reflect the structures of written Japanese, and considerable prior knowledge of the rules and exceptions is necessary to achieve correct pronunciation. Words transliterated using the Hyōjun system, however, can be pronounced more or less correctly by anyone familiar with English. For example: the syllable *chi* (pronounced as in 'chip') is written '*ti*' under the Kunrei system but '*chi*' under Hyōjun; and *sha* (as in 'sharp') is '*sya*' under Kunrei, '*sha*' under Hyōjun. To cite a well-known

example, the word *Geisha* (Hyōjun) is written *Geisya* under Kunrei. A large number of such differences exist between the two systems in the treatment of both consonants and vowels. There are basically only five vowel sounds in Japanese : *a* as in 'heart', *e* as in 'bet', *i* as in 'bit', *o* as in 'dog' and *u* as in 'blue' (where a vowel is extended with a macron - ā, ē, ō and ū - the same sound is held for twice as long as normal), and vowels in juxtaposition are pronounced individually. (In many older publications, the French circonflexe (^) was used instead of the macron as it was the closest available character on typewriter keyboards, but macron-bearing versions of common digital fonts are now freely available).

For reasons not easily understood the Japanese government has never enforced a national standard for transliteration, and individual government agencies and ministries continue to differ in their choice of system. Where both Hyōjun and Kunrei transliterations are used in a number of related documents, confusion inevitably results; the unenlightened reader might well gain the impression, for example, that Mr Ranzi Tiba and Mr Ranji Chiba are two different people, along with Messrs. Huzita and Fujita. Where two syllables within the same word can differ in transliteration, the problem is compounded; *Chōshi* (Hyōjun) and *Tyousi* (Kunrei) are actually the same place, as are *Titizima* and *Chichijima*. The continuing simultaneous use of two such different systems is becoming a serious obstruction to the compilation of indices and databases.

Use of the Kunrei system was more common in the first half of the twentieth century, and Japanese scientists nowadays seem increasingly to be adopting Hyōjun. Kunrei can still be found in many school textbooks, however, and its extinction in scientific literature is by no means imminent; in particular, few Japanese authors feel comfortable giving the Hyōjun version of an author's name which the author himself wrote using Kunrei. As neither system is formally taught in schools, few Japanese authors are fully familiar with either; the two are frequently mixed up in the same article, and few journals have any editorial policy concerning the matter.

In translating and writing the text of this book, the authors have done their best to apply the Hyōjun system throughout. The only deliberate exception is in cases where a Kunrei transliteration was used by an author in the creation of a Latin name - for example *Antalis tibanum*, which is based on 'Tiba', the Kunrei version of 'Chiba' (The confusion persists here too - *Buccinum chibanum* is based on the Hyōjun version). In instances such as this the Kunrei transliteration has been 'frozen' in a Latin name and cannot be modified. The names of all authors and places, however, are given using Hyōjun in the text, even if a Kunrei transliteration was originally used. To simplify the looking up of entries by author, both spellings

are listed in the bibliography.

### Systematic arrangement

The last thirty years have seen major movements within the phylogeny of the Mollusca. Wholesale shifts have occurred among and within families, with orders and suborders appearing and disappearing. Much of the movement has resulted from detailed anatomical studies of hitherto poorly-understood groups, augmented by the development of new techniques in biochemical analysis.

Among Japanese workers in the mid-twentieth century, the taxonomical arrangements of Thiele (1929-35) and Wenz (1938-40) together with sections of the later Treatise on Invertebrate Paleontology (Moore, Ed., 1960 and 1969) were standard references for higher molluscan phylogeny. In recent years these have been augmented by the original work of Japanese authors. Kuroda, Habe and Ōyama's landmark book 'The Seashells of Sagami Bay' (1971) was arranged according to the scheme in general use at the time, and has remained one of the principal reference works for the Japanese fauna; Habe's 'Systematics of Mollusca in Japan : Bivalvia and Scaphopoda' (1977) further provided a useful framework for the classification of the Bivalvia.

In recent years, students of the Japanese mollusca have nevertheless become aware of the need for a general work placing the fauna within a modern phylogenetic arrangement. Higo and Gotō (1993) constructed a layout based on a number of works including Vaught (1989) as well as those mentioned above, and despite its many shortcomings this has remained the most comprehensive arrangement available down to species level.

Recent advances notwithstanding, the study of the evolution and ecology of the Mollusca is not a perfect science, and difficult decisions arise whenever an attempt is made to 'fix' an overall picture of an entire class. The present authors decided early on not to attempt an independent analysis of the phylogeny of the Mollusca, but instead to arrange the suprageneric groups in the present work according to a published and generally-accepted scheme. After studying the various alternatives available, it was decided to adopt the arrangement set out by Beesley, Ross & Wells (1998) with the following modifications : the former Archaeogastropoda have been updated following Sasaki (1998); the Trochoidea follow Hickman & McLean (1990) and the Conoidea follow Taylor, Kantor and Sysoev (1993). Though the excessive division of families into subfamilies has in general been avoided, some of the subfamilies in the original manuscript which are not treated in Beesley *et al.* have been left in place pending further study. Authors and dates are given for all group names following Vokes (1980), Ponder & Warén (1988), Hickman &

McLean (1990) Rosenberg (1992) and others. The distinctions between marine and non-marine groups drawn by Beesley *et al.* are followed; where at least one life-stage of a group is marine, it is included. Groups not represented in the Japanese fauna are not included in the systematic arrangement.

#### **How to use this book**

To permit the maximum flexibility in preparing this and the projected volume of plates, each species entry bears a number and the indices refer to these rather than page numbers. There are four sequences : P for Polyplacophora, G for Gastropoda,

B for Bivalvia and S for Scaphopoda. The main list is followed by the Bibliography and indices. Distribution maps are given last, and a general map showing the distribution area codes is printed on the inside back cover for quick reference while consulting the text. Alongside the index entry for each group name is given the species entry number from which the group starts. Where necessary due to minor modifications to the text during final editing, a few entries bear decimal increments (-1, -2 *etc.*); these do not have any bearing on the status of the species

#### **Proposed new names**

A single new name is proposed in the present work, at entry B719.

#### **Abbreviations of institutions**

AMNH : American Museum of Natural History, New York, USA

ANSP : Academy of Natural Sciences, Philadelphia, USA

BMNH : British Museum (Natural History), London, UK

IGNS : Institute of Geological & Nuclear Sciences, Lower Hutt, New Zealand

KMI : Kikuchi Malacological Institute, Nishinomiya, Japan

LACMNH : Los Angeles County Museum of Natural History, California, USA

MNHN : Muséum national d'Histoire Naturelle, Paris, France

MNZ : Museum of New Zealand, Wellington, NZ

NSM : National Science Museum, Tōkyō, Japan

SHKM : Saitō Hō-on Kai Museum, Sendai, Japan

TMU : Tōkyō Metropolitan Museum, Hachiōji, Japan

ZMMSU : Zoological Museum, Moscow State University, Russia

ZMUA : Zoological Museum, University of Amsterdam, Netherlands

Phylum **Mollusca LINNAEUS, 1758**  
Class **Polyplacophora BLAINVILLE, 1816**

Order **Neoloricata BERGENHAYN, 1955**

Suborder **Lepidopleurina THIELE, 1910**

- Family Leptochitonidae DALL, 1889
  - Subfamily Leptochitoninae DALL, 1889

Suborder **Ischnochitonina BERGENHAYN, 1930**

- Family Ischnochitonidae DALL, 1889
  - Subfamily Schizoplacinae BERGENHAYN, 1955
  - Subfamily Callochitoninae PLATE, 1901
  - Subfamily Lepidochitoninae IREDALE, 1914
  - Subfamily Ischnochitoninae DALL, 1889
- Family Callistoplacidae PILSBRY, 1893
- Family Mopaliidae DALL, 1889
- Family Chitonidae RAFINESQUE, 1815
  - Subfamily Chitoninae RAFINESQUE, 1815
  - Subfamily Tonicinae PILSBRY, 1893
  - Subfamily Acanthopleurinae DALL, 1889

Suborder **Acanthochitonina BERGENHAYN, 1930**

- Family Acanthochitonidae PILSBRY, 1893
  - Subfamily Acanthochitoninae PILSBRY, 1893
  - Subfamily Cryptoplacinae H. & A. ADAMS, 1858

Class **Gastropoda CUVIER, 1797**

Subclass **Eogastropoda PONDER & LINDBERG, 1996**

Order **Patellogastropoda LINDBERG, 1986**

Suborder **Patellina IHERING, 1876**

- Superfamily Patelloidea RAFINESQUE, 1815
  - Family Patellidae RAFINESQUE, 1815
  - Family Nacellidae THIELE, 1891
- Superfamily Lepetoidea DALL, 1869
  - Family Lepetidae GRAY, 1850
- Superfamily Acmaeoidea FORBES, 1850
  - Family Lottiidae GRAY, 1840
    - Subfamily Patelloidinae CHAPMAN & GABRIEL, 1923
    - Subfamily Lottiinae GRAY, 1840
  - Family Acmaeidae FORBES, 1850
    - Subfamily Acmaeinae FORBES, 1850
    - Subfamily Pectinodontinae PILSBRY, 1891

Subclass **Orthogastropoda PONDER & LINDBERG, 1996**

Superorder **Vetigastropoda SALVINI-PLAWEN, 1980**

- Superfamily Pleurotomarioidea SWAINSON, 1840
  - Family Pleurotomariidae SWAINSON, 1840
- Superfamily Haliotoidea RAFINESQUE, 1815
  - Family Haliotidae RAFINESQUE, 1815
- Superfamily Scissurelloidea GRAY, 1847
  - Family Scissurellidae GRAY, 1847
    - Subfamily Scissurellinae GRAY, 1847

Subfamily Anatominae MCLEAN, 1989

Superfamily Fissurelloidea FLEMING, 1822

Family Fissurellidae FLEMING, 1822

Subfamily Emarginulinae GRAY, 1834

Subfamily Diodorinae WENZ, 1938

Subfamily Fissurellinae FLEMING, 1822

Superfamily Trochoidea RAFINESQUE, 1815

Family Turbinidae RAFINESQUE, 1815

Subfamily Liotiinae H. & A. ADAMS, 1854

Subfamily Angariinae THIELE, 1921

Subfamily Colloniinae COSSMANN, 1916

Subfamily Turbininae RAFINESQUE, 1815

Subfamily Tricoliinae WOODRING, 1928

Subfamily Phasianellinae SWAINSON, 1840

Subfamily Gabrieloninae HICKMAN & MCLEAN, 1990

Family Trochidae RAFINESQUE, 1815

Subfamily Tegulinae KURODA, HABE & ŌYAMA, 1971

Subfamily Chilodontinae WENZ, 1938

Subfamily Calliotropinae HICKMAN & MCLEAN, 1990

Subfamily Margaritinae STOLICZKA, 1868

Subfamily Trochinae RAFINESQUE, 1815

Subfamily Gibbulinae STOLICZKA, 1868

Subfamily Cantharidinae COTTON, 1959

Subfamily Stomatellinae GRAY, 1840

Subfamily Calliostomatinae THIELE, 1924

Subfamily Solariellinae POWELL, 1951

Subfamily Halystylinae KEEN, 1958

Subfamily Lirulariinae HICKMAN & MCLEAN, 1990

Subfamily Umboniinae H. & A. ADAMS, 1854

Family Skeneidae CLARK, 1851

Superfamily Lepetodriloidae MCLEAN, 1988

Family Lepetodrilidae MCLEAN, 1988

Superfamily Seguenzioidea VERRILL, 1884

Family Seguenziidae VERRILL, 1884

Superfamily Peltospiroidea MCLEAN, 1989

Family Peltospiridae MCLEAN, 1989

Superorder **Cocculiniformia HASZPRUNAR, 1987**

Superfamily Cocculinoidea THIELE, 1909

Family Cocculinidae DALL, 1882

Family Bathysciadiidae DAUTZENBERG & FISCHER, 1900

Superfamily Leptelloidea DALL, 1881

Family Pseudococculinidae HICKMAN, 1983

Family Cocculinellidae MOSKALEV, 1971

Family Choristellidae BOUCHET & WARÉN, 1979

Superorder **Neritopsina COX & KNIGHT, 1960**

Superfamily Neritoidea LAMARCK, 1809

Family Neritopsidae GRAY, 1847

Family Neritidae RAFINESQUE, 1815

Subfamily Neritinae RAFINESQUE, 1815

Subfamily Smaragdiinae BAKER, 1923

Subfamily Neritiliinae BAKER, 1923

Family Phenacolepadidae THIELE, 1929

Superorder **Caenogastropoda COX, 1959**

Order **Sorbeoconcha PONDER & LINDBERG, 1997**

Superfamily Loxonematoidea KOKEN, 1889

Family Abyssochrysidae TOMLIN, 1927

Family Provannidae WARÉN & PONDER, 1991

Superfamily Cerithioidea FÉRUSSAC, 1819

Family Planaxidae GRAY, 1850

Subfamily Planaxinae GRAY, 1850

Subfamily Fossarinae TROSCHER, 1861

Family Modulidae FISCHER, 1884

Family Cerithiidae FLEMING, 1822

Subfamily Cerithiinae FLEMING, 1822

Subfamily Bittiinae COSSMANN, 1906

Family Dialidae PONDER, 1990

Family Litiopidae GRAY, 1847

Family Obtortionidae THIELE, 1925

Family Scaliolidae IREDALE & MCMICHAEL, 1962

Family Potamididae H & A. ADAMS, 1854

Family Batillaridae THIELE, 1929

Family Turritellidae LOVÉN, 1847

Subfamily Turritellinae LOVÉN, 1847

Subfamily Turritellopsinae MARWICK, 1957

Subfamily Orectospirinae HABE, 1955

Family Siliquariidae ANTON, 1838

Superfamily Campaniloidea DOUVILLE, 1904

Family Plesiotrochidae HOUBRICK, 1990

Suborder **Hypogastropoda PONDER & LINDBERG, 1997**

Infraorder **Littorinimorpha GOLIKOV & STAROBOGATOV, 1975**

Superfamily Littorinoidea GRAY, 1840

Family Littorinidae GRAY, 1840

Subfamily Littorininae GRAY, 1840

Subfamily Lacuninae GRAY, 1857

Family Pickworthiidae IREDALE, 1917

Family Pelyciidae PONDER & HALL, 1983

Superfamily Cingulopsoidea FRETTER & PATIL, 1958

Family Cingulopsidae FRETTER & PATIL, 1958

Family Eatoniellidae PONDER, 1965

Superfamily Rissooidea GRAY, 1847

Family Iravadiidae THIELE, 1928

Family Elachisinidae PONDER, 1985

Family Falsicingulidae SLAVOSHEVSKAYA, 1976

Family Pomatiopsidae STIMPSON, 1865

Family Assimineidae H. & A. ADAMS, 1856

Subfamily Assimineinae H. & A. ADAMS, 1856

Subfamily Omphalotropidinae THIELE, 1927

Family Truncatellidae GRAY, 1840

Family Rissoidae GRAY, 1847

Subfamily Rissoinae GRAY, 1847

- Subfamily Rissoiinae STIMPSON, 1865
- Family Barleidae GRAY, 1847
- Family Anabathridae PONDER, 1988
- Family Caecidae GRAY, 1850
- Family Vitrinellidae BUSH, 1897
- Family Tornidae SACCO, 1896
- Family Stenothyridae FISCHER, 1885
- Superfamily Stromboidea RAFINESQUE, 1815
  - Family Strombidae RAFINESQUE, 1815
- Superfamily Vanikoroidea GRAY, 1840
  - Family Hipponicidae TROSCHER, 1861
  - Family Vanikoridae GRAY, 1840
  - Family Haloceratidae WARÉN & BOUCHET, 1991
- Superfamily Calyptraeidea LAMARCK, 1809
  - Family Calyptraeidae LAMARCK, 1809
- Superfamily Capuloidea FLEMING, 1822
  - Family Capulidae FLEMING, 1822
- Superfamily Xenophoroidea TROSCHER, 1852
  - Family Xenophoridae TROSCHER, 1852
- Superfamily Vermetoidea RAFINESQUE, 1815
  - Family Vermetidae RAFINESQUE, 1815
- Superfamily Cypraeoidea RAFINESQUE, 1815
  - Family Cypraeidae RAFINESQUE, 1815
    - Subfamily Pustulariinae GILL, 1871
    - Subfamily Staphylaeinae IREDALE, 1935
    - Subfamily Talpariinae SCHILDER, 1936
    - Subfamily Erroneinae SCHILDER, 1924
    - Subfamily Adustinae STEADMAN & COTTON, 1946
    - Subfamily Nariinae SCHILDER, 1932
    - Subfamily Mauritiinae STEADMAN & COTTON, 1946
    - Subfamily Erosariinae SCHILDER, 1924
    - Subfamily Cypraeinae RAFINESQUE, 1815
  - Family Ovulidae FLEMING, 1822
    - Subfamily Eocypraeinae SCHILDER, 1924
    - Subfamily Ovulinae FLEMING, 1822
    - Subfamily Volvinae SCHILDER, 1932
    - Subfamily Pediculariinae H. & A. ADAMS, 1854
- Superfamily Velutinoidea GRAY, 1840
  - Family Triviidae TROSCHER, 1863
    - Subfamily Triviinae TROSCHER, 1863
    - Subfamily Eratoinae GILL, 1871
  - Family Velutinidae GRAY, 1840
    - Subfamily Lamellariinae D'ORBIGNY, 1841
    - Subfamily Velutininae GRAY, 1840
- Superfamily Naticoidea FORBES, 1838
  - Family Naticidae FORBES, 1838
    - Subfamily Ampullospirinae COX, 1931
    - Subfamily Globisininae POWELL, 1933
    - Subfamily Polinicinae GRAY, 1847
    - Subfamily Naticinae FORBES, 1838

Subfamily Sininae WOODRING, 1928

Superfamily Ficoidea MEEK, 1864

Family Ficidae MEEK, 1864

Superfamily Tonnoidea SUTER, 1913

Family Tonnidae SUTER, 1913

Family Cassidae LATREILLE, 1825

Subfamily Cassinae LATREILLE, 1825

Subfamily Phaliinae BEU, 1981

Family Ranellidae GRAY, 1854

Subfamily Ranellinae GRAY, 1854

Subfamily Cymatiinae IREDALE, 1913

Family Pisanianuridae WARÉN & BOUCHET, 1990

Family Personidae GRAY, 1854

Family Bursidae THIELE, 1925

Family Laubierinidae WARÉN & BOUCHET, 1990

Superfamily Carinarioidea BLAINVILLE, 1818

Family Atlantidae RANG, 1829

Family Carinariidae BLAINVILLE, 1818

Superfamily Triphoroidea GRAY, 1847

Family Triphoridae GRAY, 1847

Subfamily Triphorinae GRAY, 1847

Subfamily Metaxiinae MARSHALL, 1977

Family Cerithiopsidae H. & A. ADAMS, 1853

Subfamily Cerithiopsinae H. & A. ADAMS, 1853

Subfamily Eumetulinae GOLIKOV & STAROBOGATOV, 1975

Subfamily Triforinae JOUSSEAUME, 1884

Superfamily Janthinoidea LAMARCK, 1812

Family Janthinidae LAMARCK, 1812

Family Epitoniidae BERRY, 1910

Family Aclididae SARS, 1878

Superfamily Eulimoidea H. & A. ADAMS, 1854

Family Eulimidae H. & A. ADAMS, 1854

**Infraorder Neogastropoda WENZ, 1929**

Superfamily Muricoidea RAFINESQUE, 1815

Family Muricidae RAFINESQUE, 1815

Subfamily Muricinae RAFINESQUE, 1815

Subfamily Muricopsinae RADWIN & D'ATTILIO, 1971

Subfamily Trophoninae COSSMANN, 1903

Subfamily Typhinae COSSMANN, 1903

Subfamily Ocenebrinae COSSMANN, 1903

Subfamily Ergalataxinae KURODA, HABE & ŌYAMA, 1971

Subfamily Thaidinae JOUSSEAUME, 1888

Subfamily Coralliophilinae CHENU, 1859

Family Turbinellidae SWAINSON, 1835

Subfamily Vasinnae H. & A. ADAMS, 1853

Subfamily Ptychatractinae STIMPSON, 1865

Subfamily Columbariinae TOMLIN, 1928

Family Buccinidae RAFINESQUE, 1815

Subfamily Beringiinae GOLIKOV & STAROBOGATOV, 1975

Subfamily Volutopsiinae HABE & SATŌ, 1973



- Subfamily Parancistrolepisinae HABE, 1972
- Subfamily Ancistrolepisinae HABE & SATŌ, 1973
- Subfamily Neptuneinae STIMPSON, 1865
- Subfamily Photinae GRAY, 1857
- Subfamily Siphonaliinae FINLAY, 1928
- Subfamily Pisaniinae GRAY, 1857
- Subfamily Babyloiniinae KURODA, HABE & ŌYAMA, 1971
- Subfamily Buccininae RAFINESQUE, 1815
- Family Columbellidae SWAINSON, 1840
  - Subfamily Columbellinae SWAINSON, 1840
  - Subfamily Pyreninae SUTER, 1909
- Family Nassariidae IREDALE, 1916
  - Subfamily Nassariinae IREDALE, 1916
  - Subfamily Cylleninae BELLARDI, 1882
- Family Melongenidae GILL, 1871
- Family Fasciolaridae GRAY, 1853
  - Subfamily Fasciolarinae GRAY, 1853
  - Subfamily Peristerniinae TRYON, 1880
  - Subfamily Fusininae WRIGLEY, 1927
- Family Volutidae RAFINESQUE, 1815
  - Subfamily Lyriinae PILSBRY & OLSSON, 1954
  - Subfamily Fulgorariinae STOLICZKA, 1867
  - Subfamily Cymbiinae H & A. ADAMS, 1853
  - Subfamily Zidoninae H. & A. ADAMS, 1853
  - Subfamily Calliotectinae PILSBRY & OLSSON, 1954
- Family Olividae LATREILLE, 1825
  - Subfamily Olivinae LATREILLE, 1825
  - Subfamily Ancillinae SWAINSON, 1835
  - Subfamily Olivellinae TROSCHER, 1869
- Family Harpidae BRONN, 1849
  - Subfamily Harpinae BRONN, 1849
  - Subfamily Moruminae HUGHES & EMERSON, 1987
- Family Marginellidae FLEMING, 1828
- Family Cystiscidae STIMPSON, 1865
  - Subfamily Persiculinae COOVERT & COOVERT, 1995
  - Subfamily Cystiscinae STIMPSON, 1865
  - Subfamily Granulininae COOVERT & COOVERT, 1995
- Family Mitridae SWAINSON, 1831
  - Subfamily Mitrinae SWAINSON, 1831
  - Subfamily Cyldromitrinae COSSMANN, 1899
- Family Volutomitridae GRAY, 1854
- Family Costellaridae MACDONALD, 1860
- Superfamily Cancellarioidea FORBES & HANLEY, 1851
  - Family Cancellariidae FORBES & HANLEY, 1851
    - Subfamily Cancellariinae FORBES & HANLEY, 1851
    - Subfamily Admetinae TROSCHER, 1866
    - Subfamily Plesiotritoninae BEU & MAXWELL, 1987
- Superfamily Conoidea RAFINESQUE, 1815
  - Family Drillidae OLSSON, 1964
  - Family Turridae SWAINSON, 1840

Subfamily Turrinae SWAINSON, 1840

Subfamily Cochlespirinae POWELL, 1942

Subfamily Crassispirinae MCLEAN, 1971

Subfamily Zonulispirinae MCLEAN, 1971

Subfamily Clavatulinae GRAY, 1853

Family Conidae FLEMING, 1822

Subfamily Clathurellinae H. & A. ADAMS, 1858

Subfamily Oenopotinae BOGDANOV, 1987

Subfamily Mangeliinae FISCHER, 1883

Subfamily Raphitomininae BELLARDI, 1875

Subfamily Taraninae CASEY, 1904

Subfamily Coninae FLEMING, 1822

Family Terebridae MÖRCH, 1852

Superorder **Heterobranchia GRAY, 1840**

Superfamily Valvatoidea GRAY, 1840

Family Cornirostridae PONDER, 1990

Family Orbitestellidae IREDALE, 1917

Family Hyalogyrinidae WARÉN & BOUCHET, 1993

Superfamily Architectonicoidea GRAY, 1840

Family Mathildidae DALL, 1889

Family Architectonicidae GRAY, 1840

Superfamily Rissoelloidea GRAY, 1850

Family Rissoellidae GRAY, 1850

Superfamily Omalogyroidea SARS, 1878

Family Omalogyridae SARS, 1878

Superfamily Pyramidelloidea GRAY, 1840

Family Pyramidellidae GRAY, 1840

Family Amathinidae PONDER, 1987

Family Ebalidae WARÉN, 1994

Superorder **Opisthobranchia MILNE-EDWARDS, 1848**

Order **Architectibranchia HASZPRUNAR, 1985**

Superfamily Acteonoidea D'ORBIGNY, 1835

Family Acteonidae D'ORBIGNY, 1835

Family Aplustridae GRAY, 1847

Family Bullinidae GRAY, 1850

Superfamily Ringiculoidea PHILIPPI, 1853

Family Ringiculidae PHILIPPI, 1853

Order **Cephalaspidea FISCHER, 1883**

Superfamily Philinoidea GRAY, 1850

Family Retusidae THIELE, 1926

Family Philinidae GRAY, 1850

Family Aglajidae PILSBRY, 1896

Family Cylichnidae H. & A. ADAMS, 1854

Family Acteocinidae PILSBRY, 1921

Superfamily Diaphanoidea ODHNER, 1914

Family Diaphanidae ODHNER, 1914

Superfamily Bulloidea RAFINESQUE, 1815

Family Bullidae RAFINESQUE, 1815

Family Haminoeidae PILSBRY, 1895

Family Smaragdinellidae THIELE, 1925

Order **Sacoglossa IHERING, 1876**

- Superfamily Oxynooidea G. & H. NEVILL, 1869
  - Family Volvatellidae PILSBRY, 1895
  - Family Oxynoidae H. & A. ADAMS, 1854
  - Family Juliidae E. A. SMITH, 1885

Order **Anaspidea FISCHER, 1883**

- Superfamily Akerioidea PILSBRY, 1895
  - Family Akeridae PILSBRY, 1895

Order **Notaspidea FISCHER, 1883**

- Superfamily Tylodinoidea GRAY, 1847
  - Family Umbraculidae DALL, 1889

Order **Thecosomata BLAINVILLE, 1824**

- Family Limacinidae FÉRUSAC, 1822
- Family Cavoliniidae D'ORBIGNY, 1842
  - Subfamily Cavoliniinae D'ORBIGNY, 1842
  - Subfamily Cliinae JEFFREYS, 1869
  - Subfamily Cuvierininae GRAY, 1840

Superorder **Pulmonata CUVIER, 1817**

Order **Basommatophora SCHMIDT, 1855**

- Superfamily Amphiboloidea GRAY, 1840
  - Family Amphibolidae GRAY, 1840
- Superfamily Siphonarioidea GRAY, 1840
  - Family Siphonariidae GRAY, 1840

Order **Eupulmonata HASZPRUNAR & HUBER, 1990**

Suborder **Actophila THIELE, 1926**

- Superfamily Ellobioidea H. & A. ADAMS, 1855
  - Family Ellobiidae H. & A. ADAMS, 1855
    - Subfamily Ellobiinae H. & A. ADAMS, 1855
    - Subfamily Pythiinae ODHNER, 1925
    - Subfamily Cassidulinae ODHNER, 1925
    - Subfamily Pedipedinae FISCHER & CROSSE, 1880
    - Subfamily Melampinae STIMPSON, 1851

Suborder **Trimusculiformes MINICHEV & STAROBOGATOV, 1975**

- Superfamily Trimusculoidea BURCH, 1945
  - Family Trimusculidae BURCH, 1945

Class **Bivalvia LINNAEUS, 1758**

Subclass **Protobranchia PELSENEER, 1889**

Order **Nuculoida DALL, 1889**

- Superfamily Nuculoidea GRAY, 1824
  - Family Nuculidae GRAY, 1824
  - Family Pristiglomidae ALLEN & SAUNDERS, 1973
- Superfamily Nuculanoidea H. & A. ADAMS, 1858
  - Family Sareptidae STOLICZKA, 1871
  - Family Malletiidae H. & A. ADAMS, 1858
  - Family Neilonellidae ALLEN, 1978
  - Family Tindariidae VERRILL & BUSH, 1897
  - Family Nuculanidae H. & A. ADAMS, 1858
    - Subfamily Nuculaninae H. & A. ADAMS, 1858

Subfamily Ledellinae ALLEN, 1978

Subfamily Spinulinae ALLEN & SAUNDERS, 1982

Order **Solemyoida DALL, 1889**

Family Solemyidae H. & A. ADAMS, 1857

Family Nucinellidae VOKES, 1956

Subclass **Pteriomorpha BEURLEN, 1944**

Order **Mytiloida FÉRUSSAC, 1822**

Superfamily Mytilinae RAFINESQUE, 1815

Family Mytilidae RAFINESQUE, 1815

Subfamily Mytilinae RAFINESQUE, 1815

Subfamily Septiferinae SCARLATO & STAROBOGATOV, 1979

Subfamily Modiolinae KEEN, 1958

Subfamily Bathymodiolinae KENK & WILSON, 1985

Subfamily Crenellinae GRAY, 1840

Subfamily Musculinae IREDALE, 1939

Subfamily Dacrydiinae OCKELMANN, 1983

Subfamily Lithophaginae H. & A. ADAMS, 1857

Order **Arcoidea STOLICZKA, 1871**

Superfamily Arcoidea LAMARCK, 1809

Family Arcidae LAMARCK, 1809

Subfamily Arcinae LAMARCK, 1809

Subfamily Anadarinae REINHART, 1935

Family Noetiidae STEWART, 1930

Subfamily Striarciinae MACNEIL, 1938

Subfamily Noetiinae STEWART, 1930

Family Parallelodontidae DALL, 1898

Subfamily Grammatodontinae BRANSON, 1942

Family Cucullaeidae STEWART, 1930

Superfamily Limopsoidea DALL, 1895

Family Limopsidae DALL, 1895

Family Glycymerididae NEWTON, 1916

Subfamily Glycymeridinae NEWTON, 1916

Subfamily Melaxinaeinae HABE, 1977

Family Philobryidae BERNARD, 1897

Order **Pterioidea NEWELL, 1965**

Superfamily Pterioidea GRAY, 1847

Family Pteriidae GRAY, 1847

Family Isognomonidae WOODRING, 1925

Family Malleidae LAMARCK, 1819

Superfamily Pinnoidea LEACH, 1819

Family Pinnidae LEACH, 1819

Order **Limoida WALLER, 1978**

Superfamily Limoidea RAFINESQUE, 1815

Family Limidae RAFINESQUE, 1815

Order **Ostreoida FÉRUSSAC, 1822**

Suborder **Ostreina FÉRUSSAC, 1822**

Superfamily Ostreoida WILKES, 1810

Family Gryphaeidae VYALOV, 1936

Subfamily Pycnodonteinae STENZEL, 1959

Family Ostreidae WILKES, 1810

- Subfamily Ostreinae WILKES, 1810
- Subfamily Lophinae VYALOV, 1936
- Subfamily Crassostreinae TORIGOE, 1981

Superfamily Plicatuloidea WATSON, 1930

Family Plicatulidae WATSON, 1930

Superfamily Dimyoidea FISCHER, 1886

Family Dimyidae FISCHER, 1886

Suborder **Pectinina WALLER, 1978**

Superfamily Pectinoidea WILKES, 1810

Family Pectinidae WILKES, 1810

Subfamily Chlamydinae TREPPNER, 1922

Subfamily Hinnitinae HABE, 1977

Subfamily Peduminae HABE, 1977

Subfamily Hemipectinae HABE, 1977

Subfamily Pectininae WILKES, 1810

Subfamily Patinopectinae MASUDA, 1962

Subfamily Amusiinae RIDEWOOD, 1903

Subfamily Palliolinae KOROBKOV, 1960

Family Propeamussiidae ABBOTT, 1954

Family Spondylidae GRAY, 1826

Superfamily Anomioidea RAFINESQUE, 1815

Family Anomiidae RAFINESQUE, 1815

Subfamily Anomiinae RAFINESQUE, 1815

Subfamily Placunanomiinae BEU, 1967

Family Placunidae RAFINESQUE, 1815

Subclass **Heterodonta NEUMAYR, 1884**

Order **Veneroida H. & A. ADAMS, 1856**

Superfamily Chamoidea LAMARCK, 1809

Family Chamidae LAMARCK, 1809

Superfamily Lucinoidea FLEMING, 1828

Family Lucinidae FLEMING, 1828

Subfamily Lucininae FLEMING, 1828

Subfamily Myrteinae CHAVAN, 1969

Subfamily Milthinae CHAVAN, 1969

Subfamily Divaricellinae GILBERT, 1967

Family Fimbriidae NICOL, 1950

Family Thyasiridae DALL, 1900

Subfamily Thyasirinae DALL, 1900

Subfamily Axinopsidinae BERNARD, 1983

Family Ungulinidae H. & A. ADAMS, 1857

Superfamily Galeommatoidea GRAY, 1840

Family Galeommatidae GRAY, 1840

Family Lasaeidae GRAY, 1847

Subfamily Lasaeinae GRAY, 1847

Subfamily Erycininae DESHAYES, 1850

Family Kelliidae FORBES & HANLEY, 1849

Subfamily Kelliinae FORBES & HANLEY, 1849

Subfamily Borniolinae IREDALE & MCMICHAEL, 1936

Family Leptonidae GRAY, 1847

Family Melliterycidae IREDALE & MCMICHAEL, 1962

- Family Montacutidae CLARK, 1855
  - Subfamily Montacutinae CLARK, 1855
  - Subfamily Mysellinae IREDALE & MCMICHAEL, 1962
  - Subfamily Thecodontinae BERNARD, 1983
  - Subfamily Oorbitellinae BERNARD, 1983
- Superfamily Cyamioidea PHILIPPI, 1845
  - Family Sportellidae DALL, 1899
- Superfamily Carditoidea FLEMING, 1828
  - Family Carditidae FLEMING, 1828
    - Subfamily Carditinae FLEMING, 1828
    - Subfamily Venericardiinae CHAVAN, 1969
    - Subfamily Carditellinae IREDALE & MCMICHAEL, 1962
  - Family Condyllocardiidae BERNARD, 1897
    - Subfamily Cuninae CHAVAN, 1969
- Superfamily Crassatelloidea FÉRUSSAC, 1822
  - Family Crassatellidae FÉRUSSAC, 1822
  - Family Astartidae D'ORBIGNY, 1844
- Superfamily Cardioidea LAMARCK, 1809
  - Family Cardiidae LAMARCK, 1809
    - Subfamily Cardiinae LAMARCK, 1809
    - Subfamily Trachycardiinae STEWART, 1930
    - Subfamily Fraginae STEWART, 1930
    - Subfamily Protocardiinae KEEN, 1951
    - Subfamily Laevicardiinae KEEN, 1936
  - Family Tridacnidae LAMARCK, 1819
- Superfamily Mactroidea LAMARCK, 1809
  - Family Mactridae LAMARCK, 1809
    - Subfamily Mactrinae LAMARCK, 1809
    - Subfamily Lutrariinae H. & A. ADAMS, 1856
    - Subfamily Pteropsellinae KEEN, 1969
  - Family Mesodesmatidae GRAY, 1840
    - Subfamily Mesodesmatinae GRAY, 1840
    - Subfamily Daviliinae DALL, 1895
  - Family Anatinellidae GRAY, 1853
  - Family Cardiliidae FISCHER, 1887
- Superfamily Solenoidea LAMARCK, 1809
  - Family Pharidae H. & A. ADAMS, 1858
  - Family Solenidae LAMARCK, 1809
- Superfamily Tellinoidea WILKES, 1810
  - Family Tellinidae WILKES, 1810
    - Subfamily Tellininae WILKES, 1810
    - Subfamily Arcopagiinae KURODA & HABE, 1981
    - Subfamily Strigillinae IREDALE & MCMICHAEL, 1962
    - Subfamily Macominae OLSSON, 1961
  - Family Semelidae STOLICZKA, 1870
    - Subfamily Semelinae STOLICZKA, 1870
    - Subfamily Erviliinae DALL, 1895
  - Family Psammobiidae FLEMING, 1818
    - Subfamily Psammobiinae FLEMING, 1818
    - Subfamily Sanguinolariinae GRANT & GALE, 1931

Family Solecurtidae D'ORBIGNY, 1846

Family Donacidae FLEMING, 1828

Superfamily Arcticoidea NEWTON, 1891

Family Kelliellidae FISCHER, 1887

Family Trapeziidae LAMY, 1920

Family Vesicomidae DALL & SIMPSON, 1901

Superfamily Glossoidea GRAY, 1847

Family Glossidae GRAY, 1847

Superfamily Veneroidea RAFINESQUE, 1815

Family Veneridae RAFINESQUE, 1815

Subfamily Venerinae RAFINESQUE, 1815

Subfamily Chioninae FRIZZELL, 1936

Subfamily Circinae DALL, 1898

Subfamily Pitarinae STEWART, 1930

Subfamily Samarangiinae KEEN, 1969

Subfamily Dosiniinae DESHAYES, 1853

Subfamily Tapetinae GRAY, 1851

Subfamily Sunettinae STOLICZKA, 1870

Subfamily Meretricinae GRAY, 1847

Subfamily Cyclininae FRIZZELL, 1936

Subfamily Clementiinae FRIZZELL, 1936

Subfamily Gemminae DALL, 1902

Family Petricolidae D'ORBIGNY, 1840

Family Glauconomidae GRAY, 1853

Family Turtoniidae CLARK, 1855

#### Order **Myoida** GOLDFUSS, 1820

Superfamily Myoidea LAMARCK, 1809

Family Myidae LAMARCK, 1809

Subfamily Myinae LAMARCK, 1809

Subfamily Cryptomyinae HABE, 1977

Family Corbulidae LAMARCK, 1818

Subfamily Corbulinae LAMARCK, 1818

Subfamily Potamocorbulinae HABE, 1977

Superfamily Gastrochaenoidea GRAY, 1840

Family Gastrochaenidae GRAY, 1840

Superfamily Hiatelloidea GRAY, 1824

Family Hiatellidae GRAY, 1824

Superfamily Pholadoidea LAMARCK, 1809

Family Pholadidae LAMARCK, 1809

Subfamily Pholadinae LAMARCK, 1809

Subfamily Martesiinae GRANT & GALE, 1931

Subfamily Jouannetiinae TRYON, 1862

Subfamily Xylophagainae PURCHON, 1941

Family Teredinidae RAFINESQUE, 1815

Subfamily Teredininae RAFINESQUE, 1815

Subfamily Bankiinae TURNER, 1966

Subfamily Zachsiinae HABE, 1977

Subfamily Kuphinae TRYON, 1862

Subclass **Anomalodesmata** DALL, 1889

Order **Pholadomyoida** NEWELL, 1965

- Superfamily Pholadomyoidea GRAY, 1847
  - Family Pholadomyidae GRAY, 1847
  - Family Parilimyidae MORTON, 1982
- Superfamily Thracioidea STOLICZKA, 1870
  - Family Periplomatidae DALL, 1895
  - Family Laternulidae HEDLEY, 1918
  - Family Thraciidae STOLICZKA, 1870
- Superfamily Clavegelloidea D'ORBIGNY, 1844
  - Family Clavagellidae D'ORBIGNY, 1844
- Superfamily Pandoroidea RAFINESQUE, 1815
  - Family Lyonsiidae FISCHER, 1887
  - Family Pandoridae RAFINESQUE, 1815
  - Family Myochamidae BRONN, 1862
- Superfamily Verticordioidea STOLICZKA, 1871
  - Family Verticordiidae STOLICZKA, 1871
- Superfamily Poromyoidea DALL, 1886
  - Family Poromyidae DALL, 1886
- Superfamily Cuspidarioidea DALL, 1886
  - Family Cuspidariidae DALL, 1886

Class **Scaphopoda BRONN, 1862**

Order **Dentaliida DACOSTA, 1776**

- Family Dentaliidae GRAY, 1847
- Family Laevidentaliidae PALMER, 1974
- Family Fustiariidae STEINER, 1991
- Family Calliodentaliidae CHISTIKOV, 1975
- Family Gadiliniidae CHISTIKOV, 1975
  - Subfamily Gadiliniinae CHISTIKOV, 1975
  - Subfamily Episiphoninae CHISTIKOV, 1975
- Family Omniglyptidae CHISTIKOV, 1975

Order **Gadilida STAROBOGATOV, 1974**

Suborder **Entalimorpha STEINER, 1992**

- Family Entalinidae CHISTIKOV, 1979
  - Subfamily Entalininae CHISTIKOV, 1979
  - Subfamily Heteroschismoidinae CHISTIKOV, 1982
  - Subfamily Bathoxiphinae CHISTIKOV, 1983

Suborder **Gadilimorpha STEINER, 1992**

- Family Pulsellidae SCARABINO, 1982
- Family Gadilidae STOLICZKA, 1868
  - Subfamily Gadilinae STOLICZKA, 1868
  - Subfamily Siphonodentaliinae SIMROTH, 1894



**Abbreviations and notation:**

*auct.* of authors  
*err.* error  
*err. pro* error for  
*fide* according to  
*fms.* fathoms  
*ft.* feet  
*m.* metres  
*(mt.)* monotypy  
*nom. nud.* *nomen nudum*  
*(o. d.)* original designation  
*op.* opinion  
*pars* in part  
**Refs.** principal references  
*sta.* station  
*(s. d.)* subsequent designation  
*s. str.* *sensu strictu*  
*trans. auct.* translated by present authors

Class **POLYPLACOPHORA BLAINVILLE, 1816**

(Refs.: Kaas & Van Belle, 1985; 1987; 1990; 1995; 1998)  
 (= LORICATA SCHUMACHER, 1817 *non*  
 DESMAREST, 1804; CREPIPODA GOLDFUSS, 1820;  
 LAMELLATA LATREILLE, 1825; PLACOPHORA  
 IHERING, 1876; POLYBRANCHIATA SPENGLER, 1881;  
 LEPIDOGLOSSA THIELE, 1893)

Order **NEOLORICATA BERGENHAYN, 1955**

Suborder **LEPIDOPLEURINA THIELE, 1910**  
 (= EOPLACOPHORA PILSBRY, 1893-b;  
 LEPIDOPLEURIDA THIELE, 1929;  
 HELMINTHOCHITONIDA QUENSTEDT, 1931;  
 GRYPHOCHITONIDA QUENSTEDT, 1932;  
 AFOSSOCHITONINA BERGENHAYN, 1955;  
 CHORIPLACINA STAROBOGATOV & SIRENKO,  
 1975; CYMATOCHITONINA SIRENKO &  
 STAROBOGATOV, 1977)

Family **LEPTOCHITONIDAE DALL, 1889**

(= LEPTOIDEA DALL, 1897; LEPIDOPLEURIDAE  
 PILSBRY, 1892; GRYPHOCHITONIDAE PILSBRY,  
 1900)

(Refs.: Wu & Okutani, 1984)

Subfamily **LEPTOCHITONINAE KAAS & VAN BELLE, 1985**

□ Genus *Ferreiraella* **SIRENKO, 1988**

Type species: *Ferreiraella caribbensis* SIRENKO, 1988 (o. d.)

P1 *F. takii* (WU & OKUTANI, 1984)

Iwao-samehada-hizaragai

- Type locality: 'Sōyō-Maru' sta. B2, off Mikura island, Izu islands: 34° 08' N., 139° 58' E., 1250 m.
- Distribution: recorded only from type locality.
- Original genus: *Lepidopleurus*.

P2 *F. soyomaruae* (WU & OKUTANI, 1984)

Sōyō-samehada-hizaragai

- Type locality: 'Sōyō-Maru' sta B5, off Torishima, Izu islands: 30° 46.5' N., 141° 24.2' E., 3100 m.
- Distribution: recorded only from type locality.
- Original genus: *Lepidopleurus*.

□ Genus *Leptochiton* **GRAY, 1847**

Type species: *Chiton cinereus* MONTAGU, 1803 (s. d. GRAY, 1847; = *Chiton asellus* GMELIN, 1791)  
 (= *Deshaysiella* DALL, 1879; *Lophyropsis* THIELE, 1893;  
*Beanella* THIELE, 1893 *non* DALL, 1882; *Terenochiton*  
 IREDALE, 1914; *Xiphozona* BERRY, 1919; *Belchiton*  
 ASHBY & COTTON, 1939)  
 Subgenus *Leptochiton s. str.*

P3 *L. (L.) alveolus* (**LOVÉN, 1846**)

(= *Leptochiton benthus* HADDON, 1886; *Lepidopleurus similis* E. A. SMITH, 1894; *Lepidopleurus mesogonus*

DALL, 1902; *Lepidopleurus halistreptus* DALL, 1902; *Lepidopleurus halistreptus abbreviatus* DALL, 1908; *Lepidopleurus luridus* DALL, 1902; *Lepidopleurus farallonis* DALL, 1902; *Lepidopleurus giganteus* NIERSTRASZ, 1905; *Lepidopleurus simplex* NIERSTRASZ, 1905; *Lepidopleurus opacus* DALL, 1908) Tsuno-iro-samehada-hizaragai (= Koto-no-tsume-hizaragai)

- Type locality: 'Boh.-Bergen' (Bohusica, Sweden, to Bergen, Norway).
- Distribution: Izu islands (off Takase, off Nijijima, 140-180 m.), Japan Sea; Korea, Philippines, Indonesia, southern Australia, Indian Ocean, northern and central Pacific, Mediterranean Sea.
- Original genus: *Chiton*.

**P4 *L. (L.) belknapi* DALL, 1878**

Shinkai-samehada-hizaragai

- Type locality: northern Pacific: 53° 08' N., 171° 19' W., 1840 m.
- Distribution: western Kyūshū (off Ushibuka, off Nomozaki), Sagami bay, Izu islands to northeastern Honshū; northern Pacific.
- Habitat: 150-3020 m., on wood & rocks.

**P5 *L. (L.) japonicus japonicus* THIELE, 1909**

Yamato-samehada-hizaragai

- Type locality: Enoshima, Sagami bay (central Honshū); ± 300 m.
- Distribution: southern Kyūshū (Kagoshima), Suruga bay and northwards, Sagami bay, Japan Sea, Hokkaidō; Okhotsk Sea.
- Habitat: 50-300 m., on rocks.
- Original genus: *Lepidopleurus*.

**P6 *L. (L.) japonicus aequivalvus* (BERGENHAYN, 1933)**

Yamato-samehada-hizaragai-modoki

- Type locality: Uraga channel (mouth of Tōkyō bay), 160 m. and Okinose (Sagami bay, central Honshū); 600 m.
- Distribution: recorded only from type localities.
- Original genus: *Lepidopleurus*.

**P7 *L. (L.) aequispinus* (BERGENHAYN, 1933)**

(= *L. alveolus sensu* WU & OKUTANI, 1984, HIGO & GOTŌ, 1992 non LOVÉN, 1846)

Toge-samehada-hizaragai

- Type locality: Okinose (Sagami bay, central Honshū); 300-600 m.
- Distribution: type locality, Suruga bay (Senoumi bank SAITŌ, 1997).
- Original genus: *Lepidopleurus*.

**P8 *L. (L.) rugatus* (CARPENTER in PILSBRY, 1892)**

(= *Leptochiton internexus rugatus* DALL, 1879 non *nud.*; *Leptochiton cancellatus auct. non* SOWERBY II, 1840;

*Lepidopleurus assimilis* THIELE, 1909; *Lepidopleurus alascensis* THIELE, 1909)

Ezo-samehada-hizaragai

- Type locality: Baja California, Mexico, near S. Thomas River: 31° 32' N., 116° 26' W.
- Distribution: Japan Sea, Hokkaidō (Akkeshi bay, Shiretoko peninsula SAITŌ, 1994-a); Okhotsk Sea, Bering Sea, northwestern USA (Alaska to Mexico).
- Habitat: intertidal to 458 m.
- Original genus: *Lepidopleurus*.

**P9 *L. (L.) fuliginatus* (REEVE, 1847-b)**

Fusahada-hizaragai

- Type locality: 'Tato-kai' (southern Korea).
- Distribution: Korea strait; southern Korea.

**P10 *L. (L.) curvatus* (DALL, 1879)**

(= *Oldroydia percrassa* YAKOVLEVA, 1952 non DALL, 1894; *Deshayesiella extensibilis* SIRENKO, 1973)

Kagizume-hizaragai

- Type locality: none designated.
- Distribution: Japan Sea, Hokkaidō (Wakkanai MATSUKUMA *et al.*, 1991; Rausu SAITŌ, 1994-a), Kunashiri island, Okhotsk Sea.
- Habitat: intertidal to 20 m., on rocks and wood.
- Original genus: *Deshayesiella*.

**P11 *L. (L.) hakodatensis* THIELE, 1909**

(= *Chiton (Leptochiton) concinnus* GOULD, 1859 non SOWERBY, 1840)

Kita-samehada-hizaragai

- Type locality: Hakodate, Hokkaidō.
- Distribution: off Yokohama (central Honshū), and northwards, Mutsu bay, western Kyūshū (Nagasaki prefecture) and northwards, Japan Sea, Hokkaidō; Sakhalin.
- Habitat: intertidal to 80 m., rocks.
- Original genus: *Lepidopleurus*.

**P12 *L. (L.) hirasei* (Is. & Iw. TAKI, 1929-c)**

Samehada-hizaragai

- Type locality: Setokamayama village, Yuzaki-Ōshima, Kii peninsula, central Honshū.
- Distribution: Sagami bay and southwards, Noto peninsula, off Kii peninsula, Seto inland sea (off Matsuyama; Mukaishima; Hiroshima).
- Habitat: intertidal to 1000 m., rocks and stones.
- Original genus: *Lepidopleurus*.

**P13 *L. (L.) latidens* (BERGENHAYN, 1933)**

Hiro-samehada-hizaragai

- Type locality: 'Aburazuba' (Aburatsubo), Misaki Marine Biological Station, Sagami bay, central Honshū; 2-3 m.
- Distribution: Sagami bay.
- Habitat: intertidal to 20 m., rocks.

- Original genus: *Lepidopleurus*.

**P14 *L. (L.) batialis* SIRENKO, 1979**

Shirenko-samehada-hizaragai

- Type locality: 'Vityaz' sta. 6671, southeast off Kuji (Iwate prefecture, northeastern Honshū); 2500 m.
- Distribution: northeastern Honshū to Kuril islands (Shikotan), P9-P10, OP.
- Habitat: 1400-2500 m.

**P15 *L. (L.) torishimensis* (WU & OKUTANI, 1984)**

Chibi-samehada-hizaragai

- Type locality: 'Sōyō-Maru' sta. 72D, off Torishima, Izu islands: 31° 7.8' N., 139° 54.9' E., 310 m.
- Distribution: Izu islands, Suruga bay (SAITŌ, 1997).
- Original genus: *Hanleyella*.

**P16 *L. (L.) tenuidontus* SAITŌ & OKUTANI, 1990-a**

Usuba-samehada-hizaragai

- Type locality: Iheya hole, Iheya small ridge, central Okinawa trough, east China Sea; at hydrothermal vent, 1395 m.
- Distribution: recorded only from type locality.

**P17 *L. (L.) lukini* SIRENKO, 1990**

Hime-samehada-hizaragai

- Type locality: 'Bering Sea from Cape Chukcha to Karagin Bay; Kurile Is. Simushir, Urup and Iturup Is., 20 m.' (cited in KAAS & VAN BELLE, 1998).
- Distribution: Kuril islands (Etorofu island) to northwestern Bering Sea.

**P18 *L. (L.) kaasi* SIRENKO, 1990**

Chishima-samehada-hizaragai

- Type locality: off Etorofu island, Kuril islands; 900-920 m.
- Distribution: recorded only from type locality.

**P19 *L. (L.) surugensis* SAITŌ, 1997**

Suruga-samehada-hizaragai

- Type locality: southwest of Heda, Suruga bay, central Honshū; 370-400 m.
- Distribution: recorded only from type locality.

**P20 *L. (L.) ater* SAITŌ, 1997**

Yogore-samehada-hizaragai

- Type locality: off (Cape) Osezaki, Suruga bay, central Honshū; 140-400 m.
- Distribution: Suruga bay (SAITŌ, 1997)
- Habitat: 110-880 m., on bivalve *Limopsis tajimae* in muddy sand.

**P21 *L. (L.) seishinmaruae* SAITŌ, 1997**

Ara-samehada-hizaragai

- Type locality: off Heda, Suruga bay, central Honshū; 870-950 m.
- Distribution: recorded only from type locality.

**P22 *L. (L.) habei* SAITŌ, 1997**

Fuji-samehada-hizaragai

- Type locality: off (Cape) Koganezaki, eastern Suruga bay, central Honshū; 200-300 m.
- Distribution: Suruga bay (off Toi; Senoumi bank; off (Cape) Irōzaki SAITŌ, 1997).
- Habitat: 200-350 m.

□ Genus *Parachiton* THIELE, 1909

Type species: *Lepidopleurus (Parachiton) acuminatus* THIELE, 1909 (o. d.)

**P23 *P. eos* SAITŌ, 1996-a**

Hinode-shiributo-hizaragai

- Type locality: Miyahohama (beach), Chichijima, Ogasawara islands; 0.5 m., underside of stone on sand.
- Distribution: Chichijima.
- Habitat: low intertidal to 20 m.

**P24 *P. shinyomaruae* SAITŌ, 1996-a**

Hime-shiributo-hizaragai

- Type locality: Ōmurodashi bank, off Izu-Ōshima island (Izu islands): 34° 32.5' N., 139° 27.3' E., 90 m.
- Distribution: submarine banks off northern Izu islands, Bōsō peninsula (off Banda, Tateyama bay).
- Habitat: 39-109 m.

**P25 *P. canistrus* SAITŌ, 1996-a**

Kagome-shiributo-hizaragai

- Type locality: between Tanegashima and Magejima islands (off southern Kyūshū): 30° 41.0' N., 130° 55' E., 56 m.
- Distribution: recorded only from type locality.

**P26 *P. latus* SAITŌ, 1996-a**

Ō-shiributo-hizaragai

- Type locality: off Tsuji-jima island, Amakusa, western Kyūshū; 3 m., on underside of stone on coarse shell sand.
- Distribution: recorded only from type locality.

**P27 *P. communis* SAITŌ, 1996-a**

Shiributo-hizaragai

- Type locality: Yaeyama islands: west of Shigira beach, Miyako island, on rock buried in sand on reef.
- Distribution: Amami Ōshima to Yaeyama islands.
- Habitat: intertidal to 15 m., on reefs.

**P28 *P. politus* SAITŌ, 1996-a**

Tsuya-shiributo-hizaragai

- Type locality: Yō, Kasari district, Amami Ōshima; on rock buried in sand on reef.
- Distribution: Amami islands to Okinawa (Sesoko).
- Habitat: intertidal to 5 m., on reefs.

□ Genus *Oldroydia* DALL, 1894

Type species: *Oldroydia percrassa* DALL, 1894 (o. d.)

**P29 *O. bidentata* Is. TAKI, 1938-c**

Futaba-hizaragai

- Type locality: off Jōgashima, Sagami bay; 100-140 m.
- Distribution: Sagami bay, Japan Sea (off Tobishima), western Kyūshū (off Amakusa).
- Habitat: 100-150 m., rocks.

□ Genus *Hanleyella* SIRENKO, 1973

Type species: *Hanleyella asiatica* SIRENKO, 1973 (o. d.)

P30 *H. asiatica* SIRENKO, 1973

Ajia-hangetsu-hizaragai

- Type locality: off Simushir island, Kuril islands; 10 m.
- Distribution: Kuril islands to Bering Sea.
- Habitat: 10-130 m.

P31 *H. sinica* XU, 1990

Hangetsu-hizaragai

- Type locality: east China Sea: 26° 40' N., 120° 30' E., 1680-1950 m.
- Distribution: recorded only from type locality.

P32 *H. japonica* SAITŌ, 1997

Tsuyu-oki-hizaragai

- Type locality: off Heda, Suruga bay, central Honshū; 370-400 m.
- Distribution: Suruga bay (SAITŌ, 1997).
- Habitat: 200-400 m.

□ Genus *Nierstraszella* SIRENKO, 1992

Type species: *Lepidopleurus lineatus* NIERSTRASZ, 1905 (o. d.)

P33 *N. lineata* (NIERSTRASZ, 1905)

(= *Leptochiton diomedae* BERRY, 1917)

Fukazume-hizaragai

- Type locality: Indonesia (Macassar strait; near Ceram; Timor island).
- Distribution: Sagami bay and southwards, Suruga bay, off Kii peninsula, Kyūshū (southwest off Makurazaki); Indonesia.
- Habitat: 150-1300 m., on wood.
- Original genus: *Lepidopleurus*.

Suborder **ISCHNOCHITONINA BERGENHAYN, 1930**

(= TELEPLACOPHORA PILSBRY, 1893-b; MESOCHITONA DALL, 1908; TONICELLINA STAROBOGATOV & SIRENKO, 1975; MOPALOCHECHITONINA PUTMAN, 1980)

Family **ISCHNOCHITONIDAE DALL, 1889**

(= CHITONEA LOVÉN, 1847; TONICELLOIDEA SIMROTH, 1894; ISCHNOCHITONACEA HABE, 1961; TONICELLIDAE STAROBOGATOV & SIRENKO, 1975)

(Refs.: Wu & Okutani, 1985)

Subfamily **SCHIZOPLACINAE BERGENHAYN, 1955**

□ Genus *Schizoplax* DALL, 1878

Type species: *Chiton brandtii* MIDDENDORFF, 1846 (o. d.)

P35 *S. brandtii* (MIDDENDORFF, 1846)

(= *S. multicolor* DALL, 1920)

Sewake-hizaragai

- Type locality: Shantar bay, western Okhotsk Sea (Russia).
- Distribution: northern Japan Sea (J5-J6), Hokkaidō, P10, OP, Okhotsk Sea, Kuril islands; Sakhalin, Bering Sea, Alaska.
- Habitat: subtidal to 40 m.
- Original genus: *Chiton*.

Subfamily **CALLOCHITONINAE PLATE, 1901**

□ Genus *Callochiton* GRAY, 1847

Type species: *Chiton laevis* MONTAGU, 1803 (o. d.)  
(= *Clathropleura* TIBERI, 1877; *Trachyradsia* DALL, 1878; *Stereochiton* DALL, 1882; *Icoplax* THIELE, 1893; *Scrobicoplax* IREDALE & HULL, 1929; *Paricoplax* IREDALE & HULL, 1929; *Acutoplax* COTTON & WEEDING, 1939; *Ocellochiton* ASHBY, 1939)

P36 *C. multidentus* (CARPENTER in PILSBRY, 1892)

Ogasawara-hizaragai

- Type locality: Ogasawara islands.
- Distribution: recorded only from type locality.
- Original genus: *Ischnochiton* (*Trachyradsia*).

P37 *C. septemcostatus* BERGENHAYN, 1933

Ashigata-hizaragai (= Katachi-hizaragai)

- Type locality: Misaki, Sagami bay, central Honshū; 150 m.
- Distribution: recorded only from type locality.

P38 *C. foveolata* Is. TAKI, 1938-e

Hachi-no-su-hizaragai

- Type locality: Ōma bay, Mutsu bay (Aomori prefecture, northern Honshū).
- Distribution: Mutsu bay, Ōtsuchi bay (Iwate prefecture).

Subfamily **LEPIDOCHITONINAE IREDALE, 1914**

(= TRACHYDERMONINAE THIELE, 1910; SUBTERENOCHITONIDAE BERGENHAYN, 1930; JUVENICHITONINAE SIRENKO, 1975; DENDROCHITONIDAE PUTMAN, 1980)

□ Genus *Lepidochitona* GRAY, 1821

Type species: *Chiton marginatus* PENNANT, 1777 (o. d.); = *C. cinereus* LINNAEUS, 1767)

(= *Trachydermon* CARPENTER, 1864; *Craspedochilus* G. O. SARS, 1878; *Dawsonia* CARPENTER, 1882; *Beanella* DALL, 1882; *Cyanoplax* PILSBRY, 1892; *Leptochitona* PILSBRY, 1893-b; *Adriella* THIELE, 1893; *Mopaliopsis* THIELE, 1893; *Mopaliella* THIELE, 1909; *Lophochiton* BERRY, 1925; *Ploiochiton* BERRY, 1926; *Trachochiton* RISBEC, 1946)

Subgenus *Lepidochitona s. str.*

P39 *L. (L.) subaleutica* (SIRENKO, 1976)

Mame-hizaragai-modoki

- Type locality: Okeanskaya bay, Urup island, Kuril islands; 5 m.
- Distribution: Kuril island, southeastern Sakhalin.
- Habitat: 10-56 m.
- Original genus: *Spongioradsia*.

Subgenus *Spongioradsia* PILSBRY, 1894

Type species: *Trachydermon aleutica* DALL, 1878 (o. d.) (= *Oligochiton* BERRY, 1922)

P40 *L. (S.) aleutica* (DALL, 1878)

Mame-hizaragai

- Type locality: 'western Aleutian islands', restricted to 'Amchitka island' (FERREIRA, 1982).
- Distribution: Japan Sea; Bering Sea, Aleutian islands, Alaska.
- Habitat: intertidal, on rocks.
- Original genus: *Trachydermon* (*Trachyradsia*).

□ Genus *Tonicella* CARPENTER, 1873

Type species: *Chiton marmoreus* FABRICIUS, 1780 (o. d.) (= *Boreochiton* G. O. SARS, 1878)

P41 *T. rubra* (LINNAEUS, 1767)

(= *Chiton cinereus* FABRICIUS, 1780 non LINNAEUS, 1767; *C. minimus* SPENGLER, 1797 non GMELIN, 1791; *C. incarnatus* REEVE, 1848; *C. latus* LEACH, 1852 non LOWE, 1825, nec SOWERBY, 1825; *C. ruber* var. *oblonga* JEFFREYS, 1865; *T. ruber* var. *index* BALCH, 1906; *T. granulata* YAKOVLEVA, 1952; *T. zotini* YAKOVLEVA, 1952)

Aka-madara-hizaragai

- Type locality: 'in Oceano Septentrionali instar Patellae affixa' ('Northern Ocean, attached like limpets').
- Distribution: Mutsu bay (Aomori prefecture) and northwards, Hokkaidō, Kuril islands; Aleutian islands, Bering Sea, Sakhalin, Alaska, northern USA.
- Habitat: intertidal to 200 m., on seaweed.
- Original genus: *Chiton*.

P42 *T. beringensis lucida* SIRENKO, 1974-a

Tsuya-madara-hizaragai

- Type locality: 'Bering Strait' (cited in KAAS & VAN BELLE, 1998).
- Distribution: Hokkaidō (Akkeshi, Shiretoko); Bering Sea.

P43 *T. marmorea* (FABRICIUS, 1780)

(= *Chiton rubra* SPENGLER, 1797 non LINNAEUS, 1767; *C. laevigatus* FLEMING, 1813; *C. latus* LOWE, 1825; *C. fulminatus* COUTHOUY, 1838; *C. pictus* BEAN in THORPE, 1844; *C. flemingius* LEACH, 1852; *C. marmoreus* var. *caerulus* WINKLEY, 1894; *T. blaneyi* DALL, 1905)

Madara-hizaragai

- Type locality: Greenland.
- Distribution: northeastern Honshū and northwards, Hokkaidō, Kuril islands, Okhotsk Sea; Bering Sea, Aleutian islands, Arctic Ocean, Atlantic Ocean.
- Habitat: intertidal to 230 m., rocks.
- Original genus: *Chiton*.

P44 *T. lineata* (WOOD, 1815)

Hon-aosuji-hizaragai

- Type locality: none originally given; designated 'Monterey bay, Monterey County, California (36° 45' N., 121° 55' W.)' (FERREIRA, 1982).
- Distribution: Mutsu bay (Aomori prefecture) and northwards, Hokkaidō; Okhotsk Sea, Bering Sea, Aleutian islands to northern USA.
- Habitat: intertidal to 90 m., rocks.

P45 *T. undocaerula* SIRENKO, 1973

(= *T. lineata sensu* Is. TAKI, 1938 (*pars*) non WOOD, 1815; *T. lineata sensu* YAKOVLEVA, 1952 (*pars*)). Aosuji-hizaragai

- Type locality: Minonosok bay, Possiet (Posyet) strait, Japan Sea (southern Primoriye region, Russia); 5 m., on pebbles among (bivalve) *Modiolus difficilis*.
- Distribution: northern Japan Sea to southern Hokkaidō, Mutsu bay (Aomori prefecture) and northwards.

P46 *T. insignis* REEVE, 1847 in 1843-65

(= *T. submarmorea* DALL, 1879 non MIDDENDORFF, 1846)

Ezo-madara-hizaragai (= Ezo-nishiki-hizaragai)

- Type locality: 'Sitka, New Archangel' (Alaska).
- Distribution: northeastern Honshū and northwards, Hokkaidō, Okhotsk Sea; Alaska, northwestern USA.
- Habitat: intertidal to 12 m., rocks.
- Original genus: *Chiton*.

P47 *T. submarmorea* (MIDDENDORFF, 1847 in 1847-49)

Ō-madara-hizaragai

- Type locality: 'der Tugurbusen und die Schantarischen Inseln, im Suden des Ochotzkischen Meeres' ('Tugur Bay and the Shantar islands, in the southern Okhotsk Sea' *trans. auct.*)
- Distribution: Hokkaidō and northwards P10, OP, Kuril islands, Okhotsk Sea.
- Habitat: intertidal to 10 m., rocks.
- Original genus: *Chiton* (*Platysemus*).

P48 *T. squamigera* THIELE, 1909

Kokera-madara-hizaragai

- Type locality: Hakodate (Hokkaidō).
- Distribution: northern Japan Sea, Hokkaidō (Akkeshi; Shiretoko), P10, OP, Kuril islands, southern Okhotsk Sea; Kamchatka peninsula.

- Habitat: subtidal to 21 m.

**Notes:** Kuro-hizaragai *Chiton alternata* SOWERBY II, 1840 (= Kuro-hige-hizaragai; type locality: 'Japan') was provisionally recorded from Hachijō island and Taiwan (Kotosho) by Isao Taki (1962: 41) but both records were from memory (marked '?'), with no material to hand. Kaas & Van Belle (1985-b: 156) question the type locality; there is apparently no type material.

□ Genus *Juvenichiton* SIRENKO, 1975

Type species: *Juvenichiton albocinnamomeus* SIRENKO, 1975 (o. d.)

(= *Micichiton* SIRENKO, 1975; *Nanichiton* SIRENKO, 1975)

P49 *J. saccharinus* (DALL, 1878)

(= *J. albocinnamomeus* SIRENKO, 1975)

Osana-hizaragai

- Type locality: Yukon Harbour, Shumagin island, Alaska; 24 m.
- Distribution: Kuril islands (Urup island and northwards), Paramushir island, Komandorskiye islands (western Bering Sea).
- Habitat: intertidal to 20 m.
- Original genus: *Tonicella*.

P50 *J. grandispinosa* (SIRENKO, 1975)

- Type locality: Cape Gorelyi, Onkotan island, Kuril islands; 10 m.
- Distribution: Kuril islands to Paramushir, Komandorskiye islands (western Bering Sea).
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Micichiton*.

P51 *J. kurilensis* (SIRENKO, 1975)

Chishima-osana-hizaragai

- Type locality: Cape Nerpochka, Simushir island, Kuril islands; 20 m.
- Distribution: Kuril islands (Urup to Paramushir).
- Habitat: intertidal to 50 m.
- Original genus: *Micichiton*.

P52 *J. deplanatus* (SIRENKO, 1975)

Paramushiiru-osana-hizaragai

- Type locality: Luzhin strait, Paramushir island, Kuril islands; 5 m.
- Distribution: Kuril islands (Paramushir, Makanrushi), Komandorskiye islands (Bering Sea).
- Habitat: intertidal to 10 m.
- Original genus: *Nanichiton*.

**Notes:** *Ischnochiton* (*Trachydermon*) *asperior* CARPENTER in PILSBRY, 1892 Toge-hada-hizaragai (type locality: 'East Asia, Hong Kong or Hakodadi'), is known only from the holotype; the Chaetopleurinae are not

otherwise known from the area of Japan. The type locality is 'probably incorrect' (KAAS & VAN BELLE, 1987).

Subfamily ISCHNOCHITONINAE DALL, 1889

□ Genus *Stenoplax* DALL, 1879

Type species: *Chiton limaciformis* SOWERBY I, 1832 (o. d.)

Subgenus *Stenoplax* s. str.

P53 *S. (St.) alata* (SOWERBY II, 1841-d)

(= *Ischnochiton herdmani* SYKES, 1903; '*I. (Stenoplax) yakushimensis* Is. TAKI, MS' sensu HIGO, 1973 nom. nud.)

Ō-sesuji-hizaragai (= Hosō-sesuji-hizaragai)

- Type locality: Siquijor and Cebu islands, Philippines.
- Distribution: Izu peninsula and southwards, Hachijō island, P6-P5, ECP4-ECP2; Philippines, Indo-Pacific.
- Habitat: intertidal to 10 m., rocks.
- Original genus: *Chiton*.

P54 *S. (St.) venusta* (Is. & Iw. TAKI, 1931 in 1929-31)

Sesuji-hizaragai

- Type locality: north of Seto-Rinkai Research Station, Kii peninsula, central Honshū.
- Distribution: recorded only from type locality.
- Original genus: *Ischnochiton* (*Stenoplax*).

Subgenus *Stenoradsia* DALL, 1879

Type species: *Chiton magdalenensis* HINDS, 1844 (o. d.) (= *Maugerella* DALL, 1879)

P55 *S. (S.) lindholmii* (SCHRENCK, 1862)

Ō-hakodate-hizaragai

- Type locality: Hakodate bay, Hokkaidō.
- Distribution: recorded only from type locality.
- Original genus: *Chiton*.

□ Genus *Lepidozona* PILSBRY, 1892

Type species: *Chiton mertensii* MIDDENDORFF, 1846 (o. d.)

(= *Lepidopleurus* CARPENTER in DALL, 1879 non LEACH in RISSO, 1826; *Solivaga* IREDALE & HULL, 1925)

Subgenus *Lepidozona* s. str.

P56 *L. (L.) coreanica* (REEVE, 1847-b)

(= *Ischnochiton* (*Lepidozona*) *cultratus* CARPENTER in PILSBRY, 1893-b; *L. pectinella* BERGENHAYN, 1933) Yasuri-hizaragai

- Type locality: 'Tato-kai' (southern Korea).
- Distribution: Hokkaidō (Teshio) and southwards, P10-P5, J5-J1; China, Taiwan, Hong Kong.
- Habitat: intertidal to 10 m., rocks and sand.
- Original genus: *Chiton*.

P57 *L. (L.) amabilis* (BERRY, 1917)

Aka-yasuri-hizaragai

- Type locality: Japan; 'off Cape Tsiuka' (Tsugaru peninsula, northern Honshū): 41° 35.5' N., 140° 35.45' E., 85 m.
- Distribution: off Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986), Sagami bay and southwards, Izu islands, western Kyūshū (off Ushibuka; off Cape Makura).
- Habitat: 9-600 m., shell & gravel bottom (SAITŌ, 1997).
- Original genus: *Ischnochiton* (*Lepidozona*).

**P58 *L. (L.) pallida* BERGENHAYN, 1933**

Ki-iro-yasuri-hizaragai

- Type locality: Okinose, Sagami bay, central Honshū; 600 m.
- Distribution: recorded only from type locality.

**P59 *L. (L.) sahlini* BERGENHAYN, 1933**

Sebiro-yasuri-hizaragai

- Type locality: Misaki, Sagami bay, central Honshū.
- Distribution: Sagami bay (off Misaki; Zenisu bank; Hyōtan-se bank; Taka-se bank).
- Habitat: 30-200 m.

**P60 *L. (L.) interfossa* (BERRY, 1917)**

Hai-iro-yasuri-hizaragai

- Type locality: Japan; 'off Cape Tsiuka' (Tsugaru peninsula, northern Honshū): 41° 35.5' N., 140° 35.45' E., 85 m.
- Distribution: Tsugaru strait, Sagami bay (Minami-Amadaiba; off Kuro-se, 370 m.; Kadone, 120 m.; Okino-se, 600 m.)
- Original genus: *Ischnochiton* (*Lepidozona*).

**P61 *L. (L.) nipponica* (BERRY, 1918)**

(= *Ischnochiton* (*Lepidozona*) *pilsbryanus* BERRY, 1917 non BEDNALL, 1897; *I. (L.) berryanus* LELOUP, 1941) Madara-yasuri-hizaragai

- Type locality: 'Japan, off Cape Sirakami' (Shirakamizaki, Hokkaidō): 41° 17.2' N., 140° 07' E., 351 m.
- Distribution: Tsugaru strait (351 m.), Izu islands (200 m.); China (Chin Tao).
- Original genus: *Ischnochiton* (*Lepidozona*).

**P62 *L. (L.) iyoensis* (Is. & Iw. TAKI, 1929 in 1929-31)**

Sedaka-yasuri-hizaragai

- Type locality: off Gunchū, Iyo City, Ehime prefecture (northwestern Shikoku; Seto inland sea)
- Distribution: western Seto inland sea; southwestern Korea.
- Habitat: subtidal to 30 m., gravel and rocks.
- Original genus: *Ischnochiton* (*Lepidozona*).

**P63 *L. (L.) multigranosa* SIRENKO, 1975**

Hoso-suji-yasuri-hizaragai

- Type locality: Shikotan island, Kuril islands, 76 m.
- Distribution: Hokkaidō (Akkeshi; Shiretoko) and northwards P10, OP, southern Kuril islands (Shikotan,

Kunashiri, Etorofu, Urup); southwestern Sakhalin.

- Habitat: 4-95 m., shell and gravel bottom.

**P64 *L. (L.) hyotanseana* WU & SAKURAI, 1986**

(= *L. berryi* WU & OKUTANI, 1985 non DALL, 1919) Dandara-yasuri-hizaragai

- Type locality: Hyōtan-se (bank), Sagami bay, central Honshū: 34° 21.4' N., 139° 5.7' E., 120 m.
- Distribution: recorded only from type locality.

**P65 *L. (L.) reevei* KAAS & VAN BELLE, 1987**

Migaki-yasuri-hizaragai

- Type locality: 'Japan'.
- Distribution: Kii peninsula (SAITŌ, 1993), Suruga bay (99 m. SAITŌ, 1997)

**P66 *L. (L.) luzonica* (SOWERBY II, 1842)**

(= *Chiton* (*Lepidopleura*) *lepidus* GOULD, 1859; *Lepidopleurus concharum* DE ROCHEBRUNE, 1884; *Callistochiton finschi* THIELE, 1910; *Ischnochiton bardwelli* ASHBY & COTTON, 1934)

Ruzon-yasuri-hizaragai

- Type locality: Sorsogon, Luzon island, Philippines; 27 m.
- Distribution: P2; off western Taiwan, Philippines, eastern Sumatra, Singapore, Arabian Sea.
- Original genus: *Chiton*.

**Notes:** Juzu-yasuri-hizaragai *Chiton craticulata* GOULD, 1859 in 1859-61 (type locality: 'China Seas, probably Simoda') is known only from the holotype. 'Simoda' probably refers to Shimoda, Izu peninsula, central Honshū.

**Subgenus *Tripoplax* BERRY, 1919**

Type species: *Trachydermon trifidus* CARPENTER, 1864 (o. d.)

(= *Ischnoradsia* DALL, 1879 non SHUTTLEWORTH, 1853; *Rhombochiton* BERRY, 1919; *Gurjanovillia* YAKOVLEVA, 1952; *Albrechtia* Is. TAKI, 1955)

**P67 *L. (T.) albrechtii* (SCHRENCK, 1863)**

(= *Lepidoradsia granofilosus* PILSBRY, 1893-b)

Ezo-yasuri-hizaragai

- Type locality: Hakodate (Hokkaidō).
- Distribution: Fukushima prefecture and northwards, Japan Sea (Toyama bay Iw. TAKI, 1964), Hokkaidō (Teuri island, 100 m.; off Cape Arutori, 30 m. MATSUKUMA *et al.*, 1991), Kuril islands; Sakhalin, Okhotsk Sea, China (Liaodong peninsula).
- Habitat: intertidal to 60 m., rocks.
- Original genus: *Chiton*.

**P68 *L. (T.) andrijaschevi* (YAKOVLEVA, 1952)**

Arame-yasuri-hizaragai

- Type locality: 'Maritime Province' (Primoriye region, Japan Sea coast of Russia).
- Distribution: Mutsu bay (Aomori prefecture) and

northwards, southeastern Hokkaidō, southern Kuril islands; Sakhalin, Primoriye region.

- Habitat: subtidal to 10 m., mud & gravel.
- Original genus: *Gurjanovillia*.

**P69 *L. (T.) lindbergi* (YAKOVLEVA, 1952)**

Kita-yasuri-hizaragai

- Type locality: southern Okhotsk Sea, 20-104 m.
- Distribution: southeastern Hokkaidō and northwards, southern Kuril islands; Okhotsk Sea.
- Habitat: 20-104 m., coarse sand and stones.
- Original genus: *Gurjanovillia*.

**P70 *L. (T.) thielei* SIRENKO, 1975**

Chishima-yasuri-hizaragai

- Type locality: Broyton bay, Simushir island, Kuril islands; 8-10 m.
- Distribution: Kuril islands (Etorofu to central Kuril islands).
- Habitat: 8-25 m., on rocks, gravel and shells.

**Notes:** Moto-yasuri-hizaragai (= Hon-yasuri-hizaragai) *Chiton (Stenosemus) mertensii* MIDDENDORFF, 1847 (type locality: 'California', restricted to 'Fort Ross (38° 31' N., 123° 14' W.), Sonoma County, California' (FERREIRA, 1978), original genus: *Chiton* was recorded from Mutsu bay (Aomori prefecture) and Hokkaidō (Hakodate) (Is. TAKI, 1938-e) but this species is apparently restricted to the northwestern USA (SAITŌ, 1993; SAITŌ, pers. comm.)

□ Genus ***Ischnochiton* GRAY, 1847**

Type species: *Chiton textilis* GRAY, 1828 (s. d. GRAY, 1847)

(= *Radsia* PILSBRY, 1892; *Lophyriscus*, *Leptopleura*, *Rhodoplax*, all THIELE, 1893; *Anisoradsia* IREDALE & MAY, 1916; *Strigichiton* HULL, 1923; *Autochiton*, *Euporoplax*, *Euretoplax*., all IREDALE & HULL, 1924; *Levicoplax* IREDALE & HULL, 1925; *Diktuonus* ASHBY, 1931; *Simplischnochiton* VAN BELLE, 1974)

Subgenus ***Ischnochiton s. str.***

**P71 *I. (I.) hakodadensis* CARPENTER in PILSBRY, 1893-b**

(= *I. (I.) hakodatensis sensu* HIGO, 1973 *err. pro - dadensis*)

Hakodate-hizaragai (= Ezo-usu-hizaragai)

- Type locality: Hakodate, Hokkaidō.
- Distribution: Fukushima prefecture and northwards, Iwate prefecture (Hachinoe MATSUKUMA *et al.*, 1991), Japan Sea (Toyama bay Iw. TAKI, 1964), Hokkaidō; Yellow Sea, China.
- Habitat: intertidal to 80 m., rocks.

**P72 *I. (I.) mitsukurii* PILSBRY, 1898**

(= *I. melinus* DALL, 1926)

Mitsukuri-usu-hizaragai (= Mame-usu-hizaragai)

- Type locality: Japan; 'Exact locality not known'. Attached to *Ostrea spp.*

**Notes:** type locality of *I. melinus* is 'Tokyo bay'.

**P73 *I. (I.) boninensis* BERGENHAYN, 1933**

(= *I. comptus forma isaoi* Iw. TAKI, 1964)

Hoso-usu-hizaragai

- Type locality: Japan and Bonin (Ogasawara) islands.
- Distribution: southern Hokkaidō and southwards to Kyūshū, Japan Sea (Oga peninsula to Kyūshū) ECP4-ECP2, P2; southern Korea, China, Taiwan.
- Habitat: intertidal to 5 m., on rocks or among gravel.

**P74 *I. (I.) zebrinus* BERGENHAYN, 1933**

Mokume-usu-hizaragai

- Type locality: Misaki, Sagami bay, central Honshū.
- Distribution: Sagami bay and southwards, western Kyūshū, Kii peninsula and southwards.
- Habitat: intertidal to 10 m., rocks and gravel.

**P75 *I. (I.) paululus* Is. TAKI, 1938-e**

Hime-usu-hizaragai

- Type locality: off Imabetsu, Mutsu bay (Aomori prefecture, northern Honshū).
- Distribution: Mutsu bay (off Imabetsu; off Kanita).

Subgenus ***Stenosemus* MIDDENDORFF, 1847**

Type species: *Chiton albus* LINNAEUS, 1767 (o. d.) (= *Lophyrus* G. O. SARS, 1878 *non* POLI, 1791 *nom. null.*; *Chondropleura* THIELE, 1906; *Lepidopleuroides* THIELE, 1928; *Lophyrochiton* YAKOVLEVA, 1952)

**P76 *I. (S.) albus* (LINNAEUS, 1767)**

(= *Chiton minimus* GMELIN, 1791; *C. oryza* SPENGLER, 1797; *C. aselloides* LOWE, 1825; *C. sagrinatus* COUTHOUY, 1838; *Lophyrus albus var. infuscatus* SCHNEIDER, 1881; *Trachydermon sharpii* PILSBRY, 1896)

Shiro-hizaragai (= Kita-usu-hizaragai)

- Type locality: 'in *O. Islandico*' (seas of Iceland).
- Distribution: Japan Sea, Okhotsk Sea; northern Pacific, northwestern Atlantic.
- Habitat: subtidal to 100 m.
- Original genus: *Chiton*.

Subgenus ***Haploplax* PILSBRY, 1894-d**

Type species: *Lophyrus smaragdinus* ANGAS, 1867 (o. d.)

**P77 *I. (H.) poppei* KAAS & VAN BELLE, 1994**

Kadobari-usu-hizaragai

- Type locality: Nishino-omote town, Tanegashima island (off southern Kyūshū); 0-1 m.
- Distribution: recorded only from type locality.

**P78 *I. (H.) comptus* (GOULD, 1859 in 1859-61)**

Usu-hizaragai



- Type locality: 'Ousima' (Amami Ōshima), 'Bonin islands' (Ogasawara islands) 'and Loo Choo' (Okinawa).
- Distribution: Hokkaidō and southwards to southern Kyūshū and Okinawa, Japan Sea (Oga peninsula and southwards); southern Korea, China, Taiwan.
- Habitat: intertidal to 50 m., rocks and gravel.
- Original genus: *Chiton* (*Leptochiton*).

□ Genus *Thermochiton* SAITŌ & OKUTANI, 1990

Type species: *Thermochiton undocostatus* SAITŌ & OKUTANI, 1990 (o. d.)

P79 *T. undocostatus* SAITŌ & OKUTANI, 1990-a

Yomino-usu-hizaragai

- Type locality: Iheya small ridge, Okinawa trough (Hydrothermal vent site): 27° 32.70' N., 126° 58.20' E., 1395 m.
- Distribution: recorded only from type locality.

□ Genus *Connexochiton* KAAS, 1979

Type species: *Connexochiton platynomenus* KAAS, 1979 (o. d.)

P79-1 *C. kaasi* SAITŌ, 1997

Matsukasa-hizaragai

- Type locality: southern Senoumi bank, Suruga bay, central Honshū: 92 m.
- Distribution: recorded only from type locality.

Family CALLISTOPLACIDAE PILSBRY, 1893-b

□ Genus *Callistochiton* CARPENTER in DALL, 1879

Type species: *Callistochiton palmulatus* DALL, 1879 (o. d.)

(= *Lophochiton* ASHBY, 1923; *Callistelasma* IREDALE & HULL, 1925; *Callistassecla* IREDALE & HULL, 1925)

P80 *C. jacobaeus* (GOULD, 1859 in 1859-61)

- Type locality: 'Simoda' (Shimoda, Izu peninsula, central Honshū).
- Distribution: Sagami bay and southwards, Suruga bay, Kii peninsula, western Kyūshū (Nomozaki).
- Habitat: intertidal to 10 m., rocks.
- Original genus: *Chiton* (*Leptochiton*).

Family MOPALIIDAE DALL, 1889

(Refs.: Wu & Okutani, 1985)

□ Genus *Mopalia* GRAY, 1847

Type species: *Chiton hindsii* SOWERBY in REEVE, 1847 (s. d. GRAY, 1847)

(= *Osteochiton* DALL, 1886)

(Refs.: Saitō & Okutani, 1991)

Subgenus *Mopalia s. str.*

P81 *M. (M.) wosnessenskii* (MIDDENDORFF, 1847)

(= *M. hirsuta* Is. TAKI, 1938)

Amime-hige-hizaragai (= Ami-hizaragai; Naga-hige-hizaragai)

- Type locality: Unalaska, Alaska.

• Distribution: Mutsu bay (northern Honshū) and northwards, Hokkaidō, P9-P10, OP, Kuril islands, Okhotsk Sea; Bering Sea, Alaska, northwestern USA.

- Habitat: intertidal in rock fissures.

- Original genus: *Chiton*.

P82 *M. (M.) schrencki* THIELE, 1909 in 1909-10

Hoso-hige-hizaragai

- Type locality: 'Golf Geduld' (Terpeniya bay, eastern Sakhalin), 27-36 m.

• Distribution: northern Japan Sea, Hokkaidō (Wakkanai MATSUKUMA *et al.*, 1991), southern Kuril islands, Okhotsk Sea; Sakhalin.

P83 *M. (M.) retifera* THIELE, 1909 in 1909-10

Hige-hizaragai

- Type locality: 'not designated, but the following localities are given: Kagoshima; Hojo, Province Awa (Chiba Prefecture); Enoshima (Kanagawa Prefecture); Tsingtau; Gulf of Amur, east of Janowsky Peninsula' (SAITŌ & OKUTANI, 1991).

• Distribution: Bōsō peninsula and southwards, Seto inland sea, P5, Japan Sea (Noto peninsula), EC5; China (Chin Tao), Amur bay (Gulf of Sakhalin).

- Habitat: intertidal to 10 m., on rocks and gravel.

P84 *M. (M.) middendorffi* (SCHRENCK, 1861)

Beni-hige-hizaragai

- Type locality: Bay of Castries (Primoriye region, Japan Sea coast of Russia).

• Distribution: Japan Sea; Black Sea, Caribbean Sea.

P85 *M. (M.) seta* YAKOVLEVA, 1952

Ō-hige-hizaragai

- Type locality: southern Japan Sea.

• Distribution: northern Japan Sea, Hokkaidō (Pacific and Japan Sea coasts), southern Kuril islands

- Habitat: intertidal to subtidal, rocks.

□ Genus *Plaxiphora* GRAY, 1847

Type species: *Chiton carmichaelis* GRAY, 1828 (o. d.); = *Chiton auratus* SPALOWSKY, 1795)

(= *Euplaxiphora* SHUTTLEWORTH, 1853; *Guildingia* CARPENTER in DALL, 1882; *Diaphoroplax*, *Maorichiton*, *Poneroplax*, all IREDALE, 1914;

*Semimopalia* DALL, 1919; *Aerilamma* HULL, 1924; *Vaferichiton* IREDALE & HULL, 1932; *Hachijomopalia* Is. TAKI, 1954-b)

(Refs.: Saitō & Okutani, 1991)

P86 *Pl. integra* (Is. TAKI, 1954-b)

Hachijō-hige-hizaragai

- Type locality: Ōkata-ura, Hachijō island, Izu islands.

• Distribution: Hachijō island, Ogasawara islands (Chichijima; Iōjima).

• Original genus: *Mopalia* (*Hachijomopalia*).

**Notes:** type specimens are in a private collection (SAITŌ & OKUTANI, 1991).

□ Genus *Placiphorella* CARPENTER in DALL, 1879

Type species: *Placiphorella velata* DALL, 1879 (o. d.)

(= *Langfordiella* DALL, 1925)

(Refs.: Saitō & Okutani, 1989)

P87 *P. borealjaponica* SAITŌ & OKUTANI, 1989

(= *P. stimpsoni* auct. non GOULD, 1859)

Ezo-baba-gase

- Type locality: Hamamasu, Hokkaidō.
- Distribution: Miyake island, Izu islands (off Mikura, 1210-1235 m.), Mutsu bay (Aomori prefecture) to Hokkaidō, northern Japan Sea, Okhotsk Sea; Bering Sea.
- Habitat: intertidal to subtidal, under rocks and stones.

P88 *P. stimpsoni* (GOULD, 1859)

(= *Langfordiella japonica* DALL, 1925)

Baba-gase

- Type locality: 'Hakodadi Bay' (Hakodate, Hokkaidō); 25 fms.
- Distribution: southern Hokkaidō, Tsugaru strait and southwards, Shimokita peninsula, P9-P5, J4-J1, EC5, Seto inland sea.
- Habitat: intertidal to 10 m., rocks.
- Original genus: *Chiton* (*Mopalia*).

P89 *P. albistae* Is. TAKI, 1954-b

Shiraga-baba-gase

- Type locality: off Toshima, Izu islands, 200 m.
- Distribution: J3-J1, northern Honshū and southwards, P9-P6, Sagami bay, Izu islands, Japan Sea (off Tobishima, J3-J1).
- Habitat: 157-550 m. (SAITŌ, 1997), rocks.

P90 *P. uschakovi* YAKOVLEVA, 1952

Fukami-baba-gase

- Type locality: Okhotsk Sea.
- Distribution: Okhotsk Sea; Sakhalin, Bering Sea.

P91 *P. borealis* PILSBRY, 1892

(= *P. stimpsoni* (*pars*) sensu DALL, 1886 non GOULD, 1859)

Kita-no-baba-gase

- Type locality: Bering island, off eastern Kamchatka peninsula.
- Distribution: northeastern Honshū (Miyagi prefecture) and northwards, eastern Hokkaidō, Kuril islands; Okhotsk Sea, Bering Sea.
- Habitat: intertidal to subtidal, on rocks.

□ Genus *Amicula* GRAY, 1847

Type species: *Chiton vestitus* BRODERIP & SOWERBY, 1829 (s. d. GRAY, 1847)

(= *Cryptochiton* GRAY, 1847 non MIDDENDORFF, 1847; *Symmetrogephyrus* MIDDENDORFF, 1847; *Stimpsoniella* CARPENTER, 1873; *Chlamydochiton* DALL, 1878; *Chlamydoconcha* PILSBRY, 1893-b non DALL, 1884)

P92 *A. amiculata* (PALLAS, 1787)

(= *A. gurjanovae* YAKOVLEVA, 1952)

Oni-hige-hizaragai

- Type locality: Kuril Islands (cited in KAAS & VAN BELLE, 1994).
- Distribution: Hokkaidō (Daikoku island, Akkeshi bay SAITŌ, 1987; off Wakkanai SAITŌ, 1994; Sōya strait MATSUKUMA *et al.*, 1991), Japan Sea (YAKOVLEVA, 1952), southern Okhotsk Sea.
- Habitat: ± 45 m.
- Original genus: *Chiton*.

**Notes:** Surusumi-hizaragai *Chiton tunicata* WOOD, 1815 (type locality: Bering Sea) was variously reported from Japan (YAKOVLEVA, 1952; Is. TAKI, 1962) but is distributed from the Bering Sea to northwestern USA only (SAITŌ, pers. comm.)

Family CHITONIDAE RAFINESQUE, 1815

Subfamily CHITONINAE RAFINESQUE, 1815

□ Genus *Rhysoplax* THIELE in TROSCHER, 1893

Type species: *Chiton janierensis* GRAY, 1821 (s. d. IREDALE, 1914)

(= *Clathropleura* THIELE in TROSCHER, 1893 non TIBERI, 1877; *Anthochiton* THIELE in TROSCHER, 1893)

P94 *R. kurodai* (Is. & Iw. TAKI, 1929 in 1929-31)

(= *Chiton* (*Chaetopleura*) *bocki* BERGENHAYN, 1933) Kusazuri-gai

- Type locality: 'Seto' (Kii peninsula, central Honshū).
- Distribution: southern Hokkaidō and southwards, Japan Sea (Tobishima to Kyūshū), Yakushima; Cheju is (southwestern Korea).
- Habitat: intertidal, rocks.
- Original genus: *Chiton*.

P95 *R. tectiformis* Is. TAKI, 1938-e

Mutsu-kusazuri-gai

- Type locality: Mutsu bay (Aomori prefecture, northern Honshū).
- Distribution: recorded only from type locality.

P96 *R. komaiana* (Is. & Iw. TAKI, 1929 in 1929-31)

Ō-kusazuri-gai

- Type locality: Kushimoto and Seto, Kii peninsula, central Honshū; under rocks at low tide.
- Distribution: Kii peninsula, southern Kyūshū (Yakushima).
- Original genus: *Chiton*.

Subfamily **TONICIINAE PILSBRY, 1893**

□ Genus ***Lucilina* DALL, 1882**

Type species: *Chiton confossus* GOULD, 1846 (o. d.)  
(= *Lucia* GOULD, 1862 non SWAINSON, 1833;  
*Toniciopsis* THIELE in TROSCHER, 1893)

P97 ***L. amanda* THIELE, 1910 in 1909-10**

Nuri-tsuya-hizaragai

- Type locality: 'off Tango, Japan; 75 m.' (Tango peninsula, Kyōto prefecture, Japan Sea).
- Distribution: Mutsu bay (Aomori prefecture, central Honshū), Japan Sea (off northern Kyōto prefecture).
- Habitat: 75 m.

P98 ***L. interplicata* BERGENHAYN, 1933**

Aya-hizaragai

- Type locality: Misaki, Sagami bay, central Honshū.
- Distribution: Sagami bay and southwards, Hachijō island, Seto inland sea (Matsuyama City; Hiroshima), Yakushima, Amami Ōshima.
- Habitat: intertidal to 10 m., rocks.

□ Genus ***Onithochiton* GRAY, 1847**

Type species: *Chiton undulatus* QUOY & GAIMARD, 1835 non WOOD, 1828 (o. d.; = *O. neglectus* ROCHEBRUNE, 1881)  
(= *Pristochiton* CLESSIN, 1904; *Onithella* MACKAY, 1933)

P99 ***O. hirasei* PILSBRY, 1901-a**

Nishiki-hizaragai

- Type locality: Hirado island, western Kyūshū.
- Distribution: off Chōshi (Chiba prefecture) and southwards, Izu islands, Kii peninsula, Seto inland sea, Kyūshū, Japan Sea (Oga peninsula), Yakushima, ECP4-ECP2, P2.
- Habitat: intertidal, rocks.

P100 ***O. gotoi* VAN BELLE, 1993**

Gotō-nishiki-hizaragai

- Type locality: south of Nishino-Omote, Tanegashima: 30° 47' N., 131° 03' E., 1m, intertidal.
- Distribution: Tanegashima, Kii peninsula (Gobō, 7 m.)

Subfamily **ACANTHOPLEURINAE DALL, 1889**

□ Genus ***Acanthopleura* GUILDING, 1829**

Type species: *Chiton spinosus* BRUGUIÈRE, 1792 in 1789-1816 (o. d.)  
(= *Corephium* GRAY, 1847; *Maugeria* GRAY, 1857; *Francisia* CARPENTER in DALL, 1882 *nom. nud.*;  
*Liolophura* PILSBRY, 1893-b; *Amphitomura* PILSBRY, 1893-b; *Rhopalopleura* THIELE in TROSCHER, 1893;  
*Acanthozostera* IREDALE & HULL, 1926)

P101 ***A. japonica* (LISCHKE, 1873 in 1868-73)**

(= *Liolophura japonica tessellata* PILSBRY, 1893-b;

*Nuttallina allantophora* DALL, 1919; *Liolophura japonica tenuispinosa* LELOUP, 1939; *L. japonica unispinosa* Is. TAKI, 1962 *nom. nud.*; *L. japonica planispinosa* Is. TAKI, 1962 *nom. nud.*)

Hizaragai (= Jii-gase; Kiku-no-hana-hizaragai)

- Type locality: 'aus der Nähe von Nagasaki' (area of Nagasaki, western Kyūshū).
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J5-J1), Tsushima islands, EC5, Amami islands (SAITŌ & YOSHIOKA, 1993), Okinawa (Miyako island YOSHIOKA, 1996); Korea, Taiwan, Hong Kong, Thailand.
- Habitat: intertidal, rocks.
- Original genus: *Chiton*.

P102 ***A. miles* (CARPENTER in PILSBRY, 1893-b)**

(= *Squamopleura imitator* NIERSTRASZ, 1905; *Sclerochiton thielei* ASHBY, 1923; *Squam. stratiotes* LELOUP, 1939; *Squam. salisburyi* LELOUP, 1939)  
Kozane-hizaragai

- Type locality: 'Torres Strait' (northern Australia).
- Distribution: Okinawa (Miyako island YOSHIOKA, 1996; Sesoko island YOSHIOKA & NAKASHIMA, 1996); Taiwan, Philippines, Indonesia (Java), Sri Lanka, Papua New Guinea, Australia (FERREIRA, 1986).
- Original genus: *Chiton* (*Sclerochiton*).

P103 ***A. loochooana* (BRODERIP & SOWERBY, 1829)**

Ryūkyū-hizaragai

- Type locality: 'in mari Sinensi, ad littora insulae Loo-Choo' (Ryūkyū islands), restricted to 'Buckner Bay, Okinawa, Japan (26° 17' 51.5" N., 127° 54' 26" E., intertidal zone' (FERREIRA, 1986).
- Distribution: Izu islands and southwards, P6-P5, EC5, ECP4-ECP2, P2 (Miyako island YOSHIOKA, 1996); Taiwan, China (Hong Kong).
- Habitat: intertidal to 10 m., rocks.
- Original genus: *Chiton*.

P104 ***A. gemmata* (BLAINVILLE, 1825)**

(= *Chiton spiniger* SOWERBY II, 1840; *C. macgillivrayi* A. ADAMS, 1855; *Acanthopleura vaillantii, rawakiana, balansae*, all ROCHEBRUNE, 1882; *A. gemmata queenslandica* ASHBY, 1922; *A. haddoni* WINKWORTH, 1927; *A. gemmata maudensis* ASHBY, 1928; *A. planispina* BERGENHAYN, 1933; *A. bergenhayni* LELOUP, 1937; *Acanthozostera virens* ANG, 1967)

Oni-hizaragai (= Hōrai-hizaragai)

- Type locality: 'New Holland' (Australia); neotype designated (ASHBY, 1928) with locality 'Dunk Island, Queensland, Australia' (see FERREIRA, 1986).
- Distribution: Izu islands and southwards, Amami islands (Yoron), ECP2, P2 (Miyako island YOSHIOKA, 1996); Taiwan, Philippines, western Pacific.

- Habitat: intertidal to 2 m., rocks.
- Original genus: *Chiton*.

P105 *A. caliginosa* (REEVE, 1847 in 1843-65)

Ō-hizara-gai

- Type locality: 'Island of Negros, Philippines (under stones at low water)'.
- Distribution: Izu islands and southwards, Yakushima, Okinawa; Philippines, Gulf of Siam, Sumatra.
- Habitat: intertidal, rocks.
- Original genus: *Chiton*.

Suborder ACANTHOCHITONINA BERGENHAYN, 1930

Family ACANTHOCHITONIDAE PILSBRY, 1893-b  
(Refs.: Wu & Okutani, 1995)

Subfamily ACANTHOCHITONINAE PILSBRY, 1893-b

□ Genus *Acanthochitona* GRAY, 1821

Type species: *Chiton fascicularis* LINNAEUS, 1766 (o. d.) (= *Gymnoplax* GRAY, 1821; *Chitonellus* BLAINVILLE, 1825 non LAMARCK, 1819; *Acanthochites* LEACH in RISSO, 1826; *Phakellopleura* GUILDING, 1829; *Hamachiton* MIDDENDORFF, 1847; *Platysemus* MIDDENDORFF, 1847; *Strechochiton* A. ADAMS in TAPPARONE-CANEFRI, 1874; *Stectoplax* CARPENTER in DALL, 1882; *Meturoplax* PILSBRY, 1894)

P106 *Ac. defilippi* (TAPPARONE-CANEFRI, 1874)

Kehada-hizaragai

- Type locality: Yokohama, near Tōkyō.
- Distribution: southwestern Hokkaidō and southwards, P10-P5, Japan Sea (Tajima, Hyōgo prefecture; J2-J1), EC5, Seto inland sea; Maldive islands, Indian Ocean.
- Habitat: intertidal to 20 m., rocks and gravel.
- Original genus: *Amycula*.

P107 *Ac. achates* (GOULD, 1859 in 1859-61)

(= *Ac. sagamicus* BERGENHAYN, 1933)

Ko-kehada-hizaragai

- Type locality: Hakodate (Hokkaidō) and Kikaishima (Amami islands).
- Distribution: southwestern Hokkaidō and southwards, P10-P5, Japan Sea (Toyama bay, J3-J1), EC5, Seto inland sea, Amami islands; southern Korea.
- Habitat: intertidal to 20 m., rocks and gravel.
- Original genus: *Chiton* (*Acanthochaetes*).

P108 *Ac. rubrolineatus* (LISCHKE, 1873 in 1868-73)

(= *Ac. zealandicus* THIELE, 1893; *Ac. subachates* Is. TAKI, 1924)

Hime-kehada-hizaragai

- Type locality: 'aus der Nähe von Nagasaki' (area of Nagasaki, western Kyūshū).
- Distribution: Hokkaidō (Wakkanai MATSUKUMA *et al.*,

1991) and southwards, P10-P5, Japan Sea (Oga peninsula, J4-J1), EC5, Seto inland sea; southern Korea, northern China.

- Habitat: intertidal to 20 m., rocks and sand.
- Original genus: *Chiton*.

P109 *Ac. dissimilis* Is. & Iw. TAKI, 1931 in 1929-31

Birōdo-hizaragai

- Type locality: Gobō, Kii peninsula, central Honshū.
- Distribution: Misaki (Sagami bay), Shimoda (Izu peninsula), Suruga bay, Kii peninsula (Gobō).
- Habitat: intertidal to 20 m., rocks.

P110 *Ac. circillatus* (REEVE, 1847 in 1843-65)

Chōsen-hizaragai

- Type locality: 'Island of Quelpart; Korean Archipelago' (Cheju island).
- Distribution: Korea strait; southern Korea.
- Original genus: *Chiton*.

P111 *Ac. scutiger* (REEVE, 1847 in 1843-65)

Tsushima-hizaragai

- Type locality: 'Island of Quelpart; Korean Archipelago' (Cheju island).
- Distribution: Tsushima; southern Korea, Australia (York peninsula).
- Original genus: *Chiton*.

□ Genus *Craspedochiton* SHUTTLEWORTH, 1853

Type species: *Chiton laqueatus* SOWERBY II, 1841 (o. d.) (= *Thaumastochiton* THIELE, 1909)

P112 *C. pyramidalis* (Is. TAKI, 1938-b)

Mitsukado-hizaragai

- Type locality: off Hayama, Sagami bay, central Honshū; ± 100 m.
- Distribution: Sagami bay, Izu islands.
- Original genus: *Thaumastochiton*.

□ Genus *Notoplax* H. ADAMS, 1862

Type species: *Cryptoplax* (*Notoplax*) *speciosa* H. ADAMS, 1861 (mt.)

(= *Phacellopleura* CARPENTER in DALL, 1879 (non *Phacellopleura* GUILDING, 1829); *Macandrellus* CARPENTER in DALL, 1879; *Leptoplax* CARPENTER in DALL, 1882 *nom. nud.*; *Loboplax* PILSBRY, 1893-b; *Mecynoplax* THIELE in TROSCHER, 1893; *Aristochiton* THIELE, 1909; *Pseudotonicia* ASHBY, 1928; *Ikedaella* Is. & Iw. TAKI, 1929 in 1929-31; *Crocichiton* COTTON & WEEDING, 1939)

P113 *N. squamopleura* BERGENHAYN, 1933

Kokera-hizaragai

- Type locality: Misaki, Sagami bay, central Honshū.
- Distribution: recorded only from type locality.

P114 *N. doederleini* THIELE, 1909

(= *N. doederleini* var. *longifasciata* BERGENHAYN, 1933)

Koke-beni-hizaragai

- Type locality: Kajiyama, Kagoshima bay, southern Kyūshū.
- Distribution: Sagami bay (Misaki), Kajiyama.

P115 *N. dalli* Is. & Iw. TAKI, 1929 in 1929-31

(= *N. thielei* BERGENHAYN, 1933)

Usu-beni-hizaragai

- Type locality: Baishinji beach, Ehime prefecture, northwestern Shikoku; and Misaki, Sagami bay, central Honshū.
- Distribution: Kii peninsula (off Kushimoto, 100 m. KAWAI & TSUCHIDA, 1987); type localities.

P116 *N. mariae* (WEBSTER, 1908)

Nan'yō-beni-hizaragai

- Type locality: Manukau Harbour, Orua bay, New Zealand.
- Distribution: mouth of Tōkyō bay (Yokosuka, 160 m. Is. TAKI, 1962); New Zealand.

P117 *N. tateyamaensis* (WU & OKUTANI, 1995)

(= *N. 'tateyamaensis* Is. TAKI, MS' sensu Is. TAKI, 1962 nom. nud.)

Tateyama-beni-hizaragai

- Type locality: Tateyama, Chiba prefecture, central Honshū; 23 m.
- Distribution: Chiba prefecture (Uraga strait, mouth of Tōkyō bay, 160 m.; off Tateyama, 23 m. TAKI, 1962), off Izu islands (135 m. WU & OKUTANI, 1995).

P118 *N. hilgendorfi* THIELE, 1909

Usu-koke-hizaragai

- Type locality: Hakodate, Hokkaidō.
- Distribution: Hakodate, Suruga bay (SAITŌ, 1997), Kii peninsula (off Kushimoto), off Izu islands (WU & OKUTANI, 1995).
- Habitat: 5-160 m.

P119 *N. bergenhayni* KAAS & VAN BELLE, 1998

(= *N. stewartiana* sensu BERGENHAYN, 1933 non THIELE, 1909)

- Type locality: Sagami bay, central Honshū.
- Distribution: recorded only from type locality.

P120 *N. conica* Is. & Iw. TAKI, 1929 in 1929-31

Hitode-hizaragai

- Type locality: Kashima, Tanabe bay, Wakayama prefecture; ± 1 fm.
- Distribution: Sagami bay, Izu islands (WU & OKUTANI, 1995), Kii peninsula (Shirasaki, Kashima).

□ Genus *Cryptochiton* MIDDENDORFF, 1846

Type species: *Chiton (Cryptochiton) stelleri*

MIDDENDORFF, 1846 (s. d. DALL, 1879)

P121 *C. stelleri stelleri* (MIDDENDORFF, 1846)

Ōban-hizaragai

- Type locality: Kamchatka peninsula.
- Distribution: Hokkaidō (Esashi; Benten island off Rausu MATSUKUMA *et al.*, 1991) and northwards, OP, Kuril islands, Okhotsk Sea; Kamchatka, Bering Sea, Aleutian islands to western USA (Iw. TAKI, 1964).
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Chiton*.

P122 *C. stelleri violacea* NORDMANN, 1862

Bara-iro-ōban-hizaragai

- Type locality: Sakhalin.
- Distribution: recorded only from type locality.

P123 *C. stelleri apicalis* PILSBRY, 1893-b

- Type locality: 'Japan'.
- Distribution: known only from holotype.

Subfamily **CRYPTOPLACINAE H. & A. ADAMS, 1858**

□ Genus *Cryptoplax* BLAINVILLE, 1818

Type species: *Chiton larvaformis* BURROW, 1815 (s. d. HERRMANNSEN, 1852)

(= *Chitonellus* LAMARCK, 1819; *Oscabrella* BRODERIP, 1836; *Chitoniscus* HERRMANNSEN, 1846; *Phaenochiton*, *Dichachiton*, *Ametrogephyrus*, all MIDDENDORFF, 1847)  
(Refs.: Saitō, 1994-b)

P124 *Cp. japonica* PILSBRY, 1901-a

(= *C. rhodoplax* PILSBRY, 1901-a)

Kemushi-hizaragai

- Type locality: Hirado island, western Kyūshū.
- Distribution: P10-P5, Seto inland sea, EC5, Japan sea (J1-J6), southern Kuril islands, OP; southern Korea, southern Sakhalin.
- Habitat: intertidal, rocks and gravel.

P125 *Cp. propior* Is. & Iw. TAKI, 1930 in 1929-31

Imomushi-hizaragai

- Type locality: 'Shima' (Shima peninsula, Mie prefecture, central Honshū).
- Distribution: Sagami bay (Misaki) and southwards, Suruga bay, Shima peninsula.
- Habitat: intertidal, rocks and gravel.

P126 *Cp. larvaformis* (BURROW, 1815)

Ō-kemushi-hizaragai

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2; tropical western Pacific (SAITŌ, 1994-b; NODA, 1992).
- Habitat: unknown; found washed up in dead coral.

P127 *Cp. vittatus* ANG, 1967

- Type locality: Punto Galero, Mindanao, Philippines.
- Distribution: Amami islands and southwards, ECP3-ECP2 (NODA, 1992); Philippines.

P128 *Cp. oculata* (QUOY & GAIMARD, 1835)

- Type locality: 'New Guinea or Vanikoro'.
- Distribution: Japan (SAITŌ, 1994-b).

P129 *C. dawydoffi* LELOUP, 1957

- Type locality: Vietnam.
- Distribution: Japan (SAITŌ, 1994-b)

P130 *C. elioti* PILSBRY, 1901

( = *C. evanescens* COOKE, 1913; *C. jugosus* BERGENHAYN, 1930)

- Type locality: Apia, Samoan islands.
- Distribution: Japan (SAITŌ, 1994-b)

**Abbreviations and notation:**

*auct.* of authors

**err.** error

*err. pro* error for

*fide* according to

**fms.** fathoms

**ft.** feet

**m.** metres

**(mt.)** monotypy

*nom. nud.* *nomen nudum*

**(o. d.)** original designation

**op.** opinion

*pars* in part

**Refs.** principal references

**sta.** station

**(s. d.)** subsequent designation

*s. str.* *sensu strictu*

*trans. auct.* translated by present authors

Phylum **MOLLUSCA LINNAEUS, 1758**

(Refs.: Beesley *et al.*, 1998)

**Class GASTROPODA CUVIER, 1797**

(Refs.: Kuroda, 1929-35; Kira, 1954; 1959; 1962; Kuroda & Habe, 1952-a; Habe, 1961-a; 1964-c; Habe & Ito, 1965-a; Habe & Kosuge, 1966-a; 1967; Shikama, 1964; Shikama & Horikoshi, 1963; Cernohorsky, 1967; 1972; 1978; Kuroda, Habe & Ōyama, 1971; Abbott, 1974; Kay, 1979; Springsteen & Leobrera, 1986)

**Subclass EOGASTROPODA PONDER & LINDBERG, 1996**

**Order PATELLOGASTROPODA LINDBERG, 1986**

(Refs.: Powell, 1973)

**Suborder PATELLINA IHERING, 1876**

**Superfamily PATELLOIDEA RAFINESQUE, 1815**

**Family PATELLIDAE RAFINESQUE, 1815**

□ **Genus *Patella* LINNAEUS, 1758**

Type species: *Patella vulgata* LINNAEUS, 1758 (s. d. FLEMING, 1818)

(= *Patellaria* GMELIN, 1793; *Patellus* MONTFORT, 1810; *Patellopsis* THIELE in TROSCHER, 1891; *Costatopatella* PILSBRY, 1912; *Granopatella* PALLARY, 1920)

Subgenus *Patella s. str.*

**G1 *P. (P.) flexuosa flexuosa* QUOY & GAIMARD, 1834 in 1832-35**

(= *P. stellaeformis* REEVE, 1842; *P. paumotoensis* GOULD, 1846; *P. pentagona* BORN in REEVE, 1854; *P. cretacea* REEVE, 1854; *Penepatella inquisitor*, *arrecta*, *intraurea*, all IREDALE, 1929; *P. (Scutellastra) stellaeformis tuamotoensis* DAUTZENBERG & BOUGE, 1933; *P. (Patellidea) tara* PRASHAD & RAO, 1934) Tsutanoha-gai (= Ō-tsutanoha)

- Type locality: Vanikoro (Solomon islands).
- Distribution: Fukushima prefecture and southwards, P8-P5, P11 to southern Ogasawara islands, Japan Sea (Oga peninsula SASAKI *et al.*, 1995, J3-J1), EC5, P2; Philippines, tropical Pacific to Tuamotos.
- Habitat: intertidal to 10 m., on rocks and coral.

**G2 *P. (P.) flexuosa optima* PILSBRY, 1927**

- Type locality: Yakushima, off southern Kyūshū.
- Distribution: Izu islands, Yakushima and southwards (Takara islands; Suwanose id.; Kuchierabu id.; Takeshima id. SASAKI *et al.*, 1994).
- Habitat: subtidal to 10 m., rocks.

**Notes:** originally ssp. of *Patella stellaeformis*.

**Family NACELLIDAE THIELE, 1891**

□ **Genus *Cellana* H. ADAMS, 1869**

Type species: *Nacella (Cellana) cernica* H. ADAMS, 1869 (o. d.) (= *Helioniscus* DALL, 1871)

**G3 *C. radiata orientalis* (PILSBRY, 1891 in 1888-96)**

(= *Patella hombroni* DAUTZENBERG & BOUGE, 1933; *Cellana rota sensu* ADAM & LELOUP, 1938; *C. eudora* IREDALE, 1940; *C. rota sensu* ŌYAMA & TAKEUMURA, 1959; *C. rota sensu* HABA, 1964) Kuruma-gasa

- Type locality: 'Viti Islands' (Fiji).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Indonesia, Papua New Guinea, western Pacific, northwestern Australia, Fiji to Marquesas.
- Habitat: intertidal, on rocks.
- Original genus: *Helioniscus* (as var. of *H. rota*).

**G4 *C. radiata enneagona* (REEVE, 1854 in 1843-65)**

(= *Patella articulata* REEVE, 1855) Shiwa-gasa (= Kiku-no-hana-gai-modoki)

- Type locality: none designated.
- Distribution: Ogasawara islands and southwards, Okinawa (KUBO & KUROSUMI, 1993), ECP2, P2; Philippines, Indonesia, Andaman islands to Madagascar.
- Habitat: intertidal on rocks.
- Original genus: *Patella*.

**G5 *C. testudinaria* (LINNAEUS, 1758)**

(= *Patella patera* RÖDING, 1798; *P. rumphii* BLAINVILLE, 1825; *P. insignis* DUNKER *sensu* FRAUENFELD, 1868; *Helioniscus rota* var. *discrepans* PILSBRY, 1891; *H. mestayerae* SUTER, 1906) Torafu-zara (= Ō-bekkō-gasa)

- Type locality: none designated.
- Distribution: Ogasawara islands (HORIKOSHI, 1963) and southwards, Amami islands, ECP3-ECP2, P2; Philippines, New Caledonia, northern Australia, Andaman islands, southwest Pacific.
- Habitat: intertidal on rocks.
- Original genus: *Patella*.

**G6 *C. grata* (GOULD, 1859 in 1859-61)**

(= *Patella (Helioniscus) stearnsii*, PILSBRY, 1891; *Helioniscus eucosmius* PILSBRY, 1895) Bekkō-zara (= Bekkō-gasa; Amigasa-gai)

- Type locality: 'north shores of Nippon' (Honshū).
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula SASAKI *et al.*, 1995, J3-J1), EC5; Korea, Taiwan.
- Habitat: intertidal on rocks.
- Original genus: *Patella*.

**G7 *C. mazatlandica* (SOWERBY II, 1839-a)**

(= *Patella nigrisquamata* REEVE, 1854; *P. (Helioniscus) boninensis* PILSBRY, 1891) Kasa-gai

- Type locality: Mazatlan, Mexico.
- Distribution: Ogasawara islands (FUKUDA, 1995).



- Habitat: intertidal on offshore rocks.
- Original genus: *Patella*.

**G8 *C. nigrolineata* (REEVE, 1854 in 1843-65)**

(= *Bertinia bertinia* JOUSSEAUME, 1883)

Matsuba-gai (= Ushi-no-tsume)

- Type locality: 'Island of Camiguing, Philippines'.
- Distribution: Fukushima prefecture and southwards, P8-P5, Japan Sea (Oga peninsula, J3-J1), EC5; southern Korea, Philippines.
- Habitat: intertidal on rocks.
- Original genus: *Patella*.

**G9 *C. toreuma* (REEVE, 1855 in 1843-65)**

(= *Patella amussitata* REEVE, 1855; *P. affinis* REEVE, 1855; *P. toreuma* var. *tenuilirata* CARPENTER, 1855; *Helioniscus nigrolineatus divergens* PILSBRY, 1891)

Yomega-kasa (= Yomeno-sara; Ochiba-gasa)

- Type locality: California (error)
- Distribution: southern Hokkaidō and southwards, Tsugaru peninsula, Iwate prefecture (Ōtsuchi bay TSUCHIDA, 1990), P10-P5, Japan Sea (Oga peninsula SASAKI *et al.*, 1995, J4-J1), EC5, Seto inland sea, Ogasawara islands; southern Korea.
- Habitat: intertidal on rocks.
- Original genus: *Patella*.

Superfamily **LEPETOIDEA DALL, 1869**

Family **LEPETIDAE GRAY, 1850**

□ Genus ***Lepeta* GRAY, 1847**

Type species: *Patella caeca* MÜLLER, 1776 (o. d.)

**G10 *L. caecoides* CARPENTER, 1864-a**

Shiro-gasa-modoki

- Type locality: 'Farallon Is.' (Farallon islands, off San Francisco, California).
- Distribution: OP, Kuril islands, 'Pacific side, 42°-72° N. (KURODA & HABE, 1952-a); northwestern USA.
- Habitat: intertidal to 10 m., on rocks.

**G11 *L. kuragiensis* (YOKOYAMA, 1920)**

Kuragi-shirogasa (= Kuragi-amigasa)

- Type locality: Shiba town, Kuragi district, Yokohama (fossil).
- Distribution: Tsushima strait and northwards, Iwate prefecture (Ōtsuchi bay TSUCHIDA, 1990), P9-P10, OP, Kuril islands.
- Habitat: intertidal to 20 m., gravel.
- Original genus: *Acmaea*.

**G12 *L. caeca pacifica* MOSKALEV, 1977**

Shiro-gasa

- Type locality: Bering Sea: 62° 05.2' N., 179° 19.5' E., 70 m., on muddy sand with pebbles (R. V. 'Vityaz').
- Distribution: Japan Sea off Noto peninsula (250-300 m.), southern Hokkaidō and northwards, P10, OP, Kuril islands,

Okhotsk Sea; Bering Sea, Alaska, Canada, Samoa.

- Habitat: intertidal to 20 m., gravel.

□ Genus ***Cryptobranchia* MIDDENDORFF, 1851-a**

Type species: *Patella caeca concentrica* MIDDENDORFF, 1851-a (s. d. DALL, 1869)

(= *Cryptoctenidia* DALL, 1918)

**G13 *C. concentrica* (MIDDENDORFF, 1851-a)**

Hamon-shirogasa

- Type locality: Siberia.
- Distribution: Hokkaidō (KURODA & KINOSHITA, 1951), OP, Kuril islands, 'Pacific side, 45°-70° N.' (KURODA & HABE, 1952-a).
- Original genus: *Patella* (as ssp. of *P. caeca*).

**G14 *C. alba* DALL, 1869-a**

Mashiro-gasa

- Type locality: 'Seniavine strait; Plover bay' (Bering strait, Chukchi (Chukotsk) peninsula, eastern Siberia).
- Distribution: Kuril islands, northern Okhotsk Sea, Bering Sea, Alaska.
- Habitat: intertidal to 20 m.
- Original genus: *Lepeta*.

□ Genus ***Sagamilepeta* OKUTANI, 1987**

Type species: *Lepeta sagamiensis* KURODA & HABE, 1971 (mt.)

**G15 *S. sagamiensis* (KURODA & HABE in KURODA *et al.*, 1971)**

Sagami-shirogasa

- Type locality: Sagami bay, central Honshū.
- Distribution: Sagami bay, Suruga bay, Japan Sea (Wakasa bay).
- Habitat: 70-450 m., coarse sand and stones.
- Original genus: *Lepeta*.

□ Genus ***Limalepeta* MOSKALEV, 1977**

Type species: *Lepeta (Cryptoctenidia) lima* DALL, 1918

**G16 *L. lima* (DALL, 1918-a)**

Suge-gasa

- Type locality: 'Nemuro, Yesso' (Nemuro, Hokkaidō).
- Distribution: northeastern Honshū (Miyagi prefecture) and northwards, P8-P10, Hokkaidō; eastern Korea.
- Habitat: 10-50 m., coarse sand and stones.
- Original genus: *Lepeta (Cryptoctenidia)*.

□ Genus ***Iothia* FORBES, 1849**

Type species: *Patella fulva* MÜLLER, 1776 (o. d.)

(= *Pilidium* FORBES & HANLEY, 1849 non MÜLLER, 1846)

**G17 *I. teramachii* (KURODA & HABE, 1949-d)**

Teramachi-watazoko-shirogasa

- Type locality: Tosa bay off Kōchi prefecture, southern Shikoku.

- Distribution: Sagami bay and westwards, Suruga bay, Enshū-nada to Tosa bay.
- Habitat: 100-500 m., on wood & debris.
- Original genus: *Cocculina*.

G18 *I. scabra* (KURODA & HABE, 1949-d)

Ibo-watazoko-shirogasa

- Type locality: Tosa bay off Kōchi prefecture, southern Shikoku.
- Distribution: Tosa bay.
- Habitat: 100-500 m., on wood & debris
- Original genus: *Cocculina*.

Superfamily ACMAEOIDEA FORBES, 1850

Family LOTTIIDAE GRAY, 1840

Subfamily PATELLOIDINAE CHAPMAN & GABRIEL, 1923

□ Genus *Patelloida* QUOY & GAIMARD, 1834

Type species: *Patelloida rugosa* QUOY & GAIMARD, 1834 (s. d. GRAY, 1847)

(= *Collisellina* DALL, 1871; *Chiazacmaea* OLIVER, 1926; *Asteracmaea* OLIVER, 1926)

G19 *P. saccharina saccharina* (LINNAEUS, 1758)

(= *Patella stellaris* QUOY & GAIMARD, 1834;

*Patelloida paropsis* IREDALE, 1929; *Patella*

*saccharinoides* HABE & KOSUGE, 1966-b)

Ryūkyū-uno-ashi

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, Indo-western Pacific.
- Habitat: intertidal on rocks.
- Original genus: *Patella*.

G20 *P. saccharina lanx* (REEVE, 1855 in 1843-65)

Uno-ashi

- Type locality: 'Japan'.
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula SASAKI *et al.*, 1995, J3-J1), EC5; southwestern Korea.
- Habitat: intertidal on rocks.
- Original genus: *Patella*.

G21 *P. saccharina stella* (LESSON, 1830 in 1826-32)

Minami-ryūkyū-uno-ashi

- Type locality: 'la Nouvelle-Zélande' (New Zealand).
- Distribution: Okinawa; Australia.
- Habitat: intertidal on rocks.
- Original genus: *Patella*.

G22 *P. striata* (QUOY & GAIMARD, 1834 in 1832-35)

(= *Patella striata borneensis sensu* KURODA, 1928)

Ryūkyū-aogai

- Type locality: 'habite la plage de Licoupang sur l'île Célèbes' (Likupang, northernmost Celebes island, Indonesia).

- Distribution: southern Kyūshū and southwards, ECP4-ECP2, P2; Philippines, Indonesia, tropical Pacific.

- Habitat: intertidal on rocks.

- Original genus: *Patelloida*.

G23 *P. lentiginosa* (REEVE, 1855 in 1843-65)

(= *Patelloida flammea* QUOY & GAIMARD *sensu*

KURODA & HABE, 1952-a; *Patella lentiginosa sensu*

KURODA & HABE, 1952-a, HABE & KOSUGE, 1966)

Taiwan-shibori-gasa

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal on rocks.
- Original genus: *Patella*.

G24 *P. pygmaea pygmaea* (DUNKER, 1860)

Shibori-gai

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula SASAKI *et al.*, 1995, J3-J1), EC5; Korea, Taiwan, China.
- Habitat: intertidal on rocks.
- Original genus: *Patella* (*Acmaea*).

G25 *P. pygmaea signatoides* (KURODA & HABE in KURODA *et al.*, 1971)

(= *Patelloida toloensis* CHRISTIAENS, 1980)

Shibori-gai-modoki

- Type locality: Sagami bay, central Honshū.
- Distribution: Bōsō peninsula and southwards, P10-P5, Japan Sea (Oga peninsula SASAKI *et al.*, 1995, J3-J1), EC5, ECP4-ECP2, Ogasawara islands (FUKUDA, 1993); Hong Kong.
- Habitat: intertidal on rocks.
- Original genus: *Chiazacmaea*.

G26 *P. heroldi* (DUNKER, 1861-b)

(= *P. (A.) pygmaea forma signata sensu* HABE, 1961)

Hime-kozara

- Type locality: Japan (from article title).
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula J3-J1), EC5.
- Habitat: intertidal on rocks.
- Original genus: *Patella*.

G27 *P. conulus* (DUNKER, 1861-b)

(= *P. (A.) lampanicola* HABE, 1944-a)

Tsubomi-gai

- Type locality: Japan (from article title).
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula J3-J1), EC5; southwest Korea, China, Taiwan.
- Habitat: intertidal on rocks, attached to shell of *Batillaria*

*multiformis* (no. G734).

- Original genus: *Patella*.

Subfamily **LOTTIINAE GRAY, 1840**

□ Genus ***Lottia* GRAY, 1833**

Type species: *Lottia gigantea* SOWERBY I, 1834 (s. d. DALL, 1871)

(= *Tecturella* CARPENTER, 1860 non STIMPSON, 1853; *Tecturina* CARPENTER, 1861 nom. nud.; *Lecania* CARPENTER, 1866 nom. nud.; *Collisella* DALL, 1871; *Conoidacmaea* HABE, 1944; *Simplacmaea* CHRISTIAENS, 1975)

Subgenus ***Lottia* s. str.**

**G28 *L. (L.) cassis* (RATHKE in ESCHSCHOLTZ, 1833 in 1823-33)**

(= *Acmaea pelta* ESCHSCHOLTZ in RATHKE, 1833; *Collisella pelta shirogai* HABE & ITÔ, 1965-b) Shiro-gai

- Distribution: Fukushima prefecture (NEMOTO & AKIMOTO, 1990), northern Hokkaidô, P10, OP, Kuril islands, Okhotsk Sea.
- Habitat: intertidal on rocks.
- Original genus: *Acmaea*.

**G29 *L. (L.) patina* (ESCHSCHOLTZ in RATHKE, 1833)**

- Type locality: 'in dem Meere bei Sitcha' (seas around Sitka Island, Alaska).
- Distribution: OP, Kuril islands; Alaska.
- Original genus: *Acmaea*.

**G30 *L. (L.) radiata* (ESCHSCHOLTZ in RATHKE, 1833)**

Sarasa-shiro-gai

- Type locality: 'in dem Meere bei Sitcha' (seas around Sitka Island, Alaska).
- Distribution: northeastern Honshû (Iwate prefecture) and northwards, Hokkaidô (Shakotan peninsula; Sôya strait; Sarufutsu lagoon TOMITA & HABE, 1987).
- Habitat: high tide line, on rocks.
- Original genus: *Acmaea*.

**G31 *L. (L.) dorsuosa* (GOULD, 1859 in 1859-61)**

(= *Patella grata* GOULD, 1859; *P. (Acmaea) digitalis* SCHRENCK, 1867)

Kamo-gai (= Keri-gai; Kiku-gamo)

- Type locality: Hakodate, Hokkaidô.
- Distribution: southwestern Hokkaidô and southwards, Iwate prefecture (Ôtsuchi bay TSUCHIDA, 1990), P10-P5, Japan Sea (Oga peninsula SASAKI *et al.*, 1995, J3-J1), EC5; Korea, Taiwan.
- Habitat: intertidal on rocks.
- Original genus: *Acmaea*.

**G32 *L. (L.) compressa* (LINNAEUS, 1758)**

Torioi-gasa (= Izu-no-hana-gasa)

- Type locality: none designated.
- Distribution: Sagami bay and southwards, Izu peninsula, ECP4-ECP2.
- Habitat: intertidal on rocks.
- Original genus: *Patella*.

**G33 *L. (L.) luchuana* (PILSBRY, 1901-a)**

(= *L. ericae* CHRISTIAENS, 1980)

Kogamo-gasa

- Type locality: 'Loo Choo Ids.' (Okinawa islands).
- Distribution: Amami islands and southwards, ECP3-ECP2.
- Habitat: above high tide line, on limestone.
- Original genus: *Patella*.

**G34 *L. (L.) kogamogai* SASAKI & OKUTANI, 1994-b**

(= *Collisella heroldi sensu* THIELE, 1893, HIRASE & TAKI, 1954, ÔYAMA, 1963, HABE & ITÔ, 1965 non DUNKER, 1861; *C. heroldi* var. ÔYAMA, 1963; *C. heroldi heroldi sensu* OKUTANI & HABE, 1975; *C. (Conoidacmaea) heroldii sensu* HABE, 1944, NAKAMURA in SAKURAI, 1986)

Kogamo-gai

- Type locality: Banda, Tateyama, Bôsô peninsula, central Honshû.
- Distribution: southeastern Hokkaidô and southwards, P10-P5, Japan Sea (Oga peninsula SASAKI *et al.*, 1995, J5-J1), EC5, Ogasawara islands; Korea, Taiwan.
- Habitat: high tide line, on rocks and shells of *Septifer virgatus*.

**G35 *L. (L.) tenuisculpta* SASAKI & OKUTANI, 1994-b**

(= *Collisella (Conoidacmaea) heroldi sensu* KIRA, 1954 non DUNKER, 1861; *C. heroldi sensu* MOSKALEV, 1970, TOMITA & HABE, 1987; *Lottia heroldi sensu* FUKUDA, 1993)

Komorebi-kogamo-gai

- Type locality: Jôgashima, Miura peninsula, Kanagawa prefecture, central Honshû.
- Distribution: northern Hokkaidô and southwards, P10-P5, Japan Sea (Oga peninsula SASAKI *et al.*, 1995, J5-J1), EC5, Ogasawara islands, Seto inland sea, ECP4-ECP2.
- Habitat: intertidal to low water, on rocks.

**G36 156-3 *L. (L.) lindbergi* SASAKI & OKUTANI, 1994-b**

(= *Collisella (Conoidacmaea) heroldi sensu* HABE & KOSUGE, 1967)

Oboro-zuki-kogamo-gai

- Type locality: Ôtsuchi bay, Iwate prefecture, northeastern Honshû.
- Distribution: northern Hokkaidô and southwards, P10-P5, Japan Sea (Oga peninsula SASAKI *et al.*, 1995, J5-J1),

EC5, Ogasawara islands.

• Habitat: intertidal to low water, on rocks.

Subgenus ***Kikukozara* HABE, 1944-a**

Type species: *Collisella (Kikukozara) langfordi* HABE, 1944 (mt.)

G37 ***L. (K.) langfordi* (HABE, 1944-a)**

Kiku-kozara

• Type locality: Bansho-bana, Shirahama, Wakayama prefecture.

• Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula J3-J1), Ogasawara islands, EC5, ECP4-ECP2, P2; southwest Korea (Cheju island.)

• Habitat: intertidal on rocks.

• Original genus: *Collisella (Kikukozara)*.

□ Genus ***Yayoiacmaea* SASAKI & OKUTANI, 1993-b**

Type species: *Colisella oyamai* HABE, 1955-c (mt.)

G38 ***Y. oyamai* (HABE, 1955-c)**

Yayoi-hana-gasa

• Type locality: Bansho-zaki, Shirahama, Wakayama prefecture.

• Distribution: Miura peninsula and southwards, Ogasawara islands, P8-P5, Japan Sea (Oga peninsula SASAKI *et al.*, 1995, J3-J1), EC5, Amami Ōshima.

• Habitat: intertidal on rocks.

• Original genus: *Collisella (Conoidacmaea)*.

□ Genus ***Problacmaea* GOLIKOV & KUSAKIN, 1972**

Type species: *Problacmaea moskalevi* GOLIKOV & KUSAKIN, 1972 (o. d.)

G39 ***P. moskalevi* GOLIKOV & KUSAKIN, 1972**

Ainu-no-hana-gasa

• Type locality: Okhotsk Sea.

• Distribution: Hokkaidō (Rebun island) and northwards, OP, Kuril islands.

• Habitat: subtidal, on rocks.

G40 ***P. sybaritica* (DALL, 1871-a)**

Ezo-no-hana-gasa

• Type locality: St. George's point, Pribilof islands, Alaska; and others.

• Distribution: northeastern Honshū (Ōtsuchi bay) and northwards, P9-P10, OP, Kuril islands; Bering Sea, Alaska.

• Habitat: intertidal, on roots of seaweed.

• Original genus: '*Collisella*'?

□ Genus ***Testudinalia* MOSKALEV, 1966**

Type species: *Acmaea tessellata* MÜLLER, 1776

G41 ***T. scutus* (ESCHSCHOLTZ in RATHKE, 1833)**

(= *Patella (Acmaea) testudinalis* SCHRENCK, 1867; *Acmaea emydia* DALL, 1914; *Patelloida cassis tessellata* YOKOYAMA, 1931)

Bekkō-shirogai (= Bekkō-shirogasa)

• Type locality: 'in dem Meere bei Sitcha' (seas around Sitka Island, Alaska).

• Distribution: northeastern Honshū (Miyagi prefecture) and northwards, P8-P10, northern Japan Sea (J4-J5), OP, Hokkaidō, Kuril islands, Okhotsk Sea; Korea (Ammyon id.), Alaska.

• Habitat: intertidal on rocks.

• Original genus: *Acmaea*.

□ Genus ***Nipponacmaea* SASAKI & OKUTANI, 1993-a**

Type species: '*Patella schrenckii* LISCHKE, 1868' (o. d.; = *Acmaea schrenckii* LISCHKE, 1868)

(= *Notoacmaea* IREDALE, 1915 *pars.*)

G42 ***N. schrenckii schrenckii* (LISCHKE, 1868 in 1868-73)**

Aogai

• Type locality: 'Nagasaki' (western Kyūshū).

• Distribution: northeastern Honshū (Ōtsuchi bay TSUCHIDA, 1990) and southwards, P9-P5, Japan Sea (Oga peninsula SASAKI *et al.*, 1995, J4-J1), EC5, Seto inland sea, ECP4; southern Korea.

• Habitat: intertidal on rocks.

• Original genus: *Patella*.

G43 ***N. schrenckii boninensis* (ASAKURA & NISHIHAMA, 1987)**

Ogasawara-aogai

• Type locality: Yagyū-san, Chichijima, Ogasawara islands; intertidal, under boulders.

• Distribution: Ogasawara islands (Chichijima; Anijima; Minamijima; Hahajima FUKUDA, 1993); northern Mariana islands.

• Habitat: intertidal, under boulders.

• Original genus: *Notoacmaea*.

G44 ***N. schrenckii gloriosa* (HABE, 1944-a)**

(= *Notoacmaea cellanica* CHRISTIAENS, 1980)

Sakura-aogai

• Type locality: Urado, Agawa district, Kōchi prefecture, southern Shikoku.

• Distribution: northeastern Honshū (Yamada bay) and southwards, P9-P5, Japan Sea (Oga peninsula SASAKI *et al.*, 1995, J3-J1), EC5; southwestern Korea.

• Habitat: intertidal to low water, on rubble.

• Original genus: *Notoacmaea*.

G45 ***N. fuscoviridis* (TERAMACHI, 1949)**

Kusa-iro-aogai

• Type locality: Akune, Kagoshima prefecture, southern Kyūshū.

• Distribution: northeastern Honshū (Ōtsuchi bay TSUCHIDA, 1990) and southwards, P9-P5, Japan Sea (Oga peninsula SASAKI *et al.*, 1995, J3-J1), EC5, ECP4-

ECP3; Korea.

- Habitat: intertidal on rocks.
- Original genus: *Notoacmea*.

G46 *N. concinna concinna* (LISCHKE, 1870 in 1868-73)

(= *Notoacmea teramachii sensu* KIRA, 1961)

Kōdaka-aogai

- Type locality: 'Nagasaki' (western Kyūshū).
- Distribution: southern Hokkaidō and southwards, Japan Sea (Oga peninsula SASAKI *et al.*, 1995); Korea, China.
- Habitat: intertidal on rocks.
- Original genus: *Acmaea*.

G47 *N. concinna radula* (KIRA, 1961-a)

Kosuri-aogai

- Type locality: Akune, Kagoshima prefecture, southern Kyūshū.
- Distribution: southern Hokkaidō and southwards, P10-P5, J4-J1, EC5; Korea, China.
- Habitat: intertidal on rocks.
- Original genus: *Notoacmea*.

G48 *N. concinna nigrans* (KIRA, 1961-a)

(= *Notoacmea mortoni* CHRISTIAENS, 1980)

- Type locality: Cape Shio, Wakayama prefecture (Kii peninsula, central Honshū).
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula SASAKI *et al.*, 1995, J4-J1), EC5; Korea, China.
- Habitat: intertidal on rocks.
- Original genus: *Notoacmea*.

G49 *N. concinna teramachii* (KIRA, 1961-a)

Hoso-suji-aogai

- Type locality: Akune, Kagoshima prefecture, southern Kyūshū.
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (J4-J1), EC5; Korea, China.
- Habitat: intertidal on rocks.
- Original genus: *Notoacmea*.

G50 *N. habeii* SASAKI & OKUTANI, 1994-a

Kasumi-aogai

- Type locality: Shiragami-misaki (cape), Matsumae, Hokkaidō
- Distribution: southern Hokkaidō to Izu peninsula, Japan Sea (Oga peninsula SASAKI *et al.*, 1995; northern Hokkaidō and southwards to Niigata prefecture).
- Habitat: upper intertidal, on rocks and under boulders.

Family ACMAEIDAE FORBES, 1850

Subfamily ACMAEINAE FORBES, 1850

□ Genus *Acmaea* ESCHSCHOLTZ in RATHKE, 1833 (ICZN op. 344)

Type species: *Acmaea mitra* ESCHSCHOLTZ in RATHKE, 1833 (s. d. DALL, 1871)

(= *Radiacmea* IREDALE, 1915; *Naccula* IREDALE, 1924; *Actinoleuca*, *Thalassacmea*, all OLIVER, 1926; *Nomaeopelta* BERRY, 1958; *Collisellacmaea* CHRISTIAENS, 1973)

Subgenus *Niveotectura* HABE, 1944-a

Type species: *Patella pallida* GOULD, 1859 (mt.)

**Note:** placement of this genus here is provisional. See SASAKI, 1988.

G51 *A. (N.) pallida* (GOULD, 1859 in 1859-61)

Yuki-no-kasa

- Type locality: Hakodate, Hokkaidō.
- Distribution: Suruga bay and northwards, P6-P10, Japan Sea (Oga peninsula SASAKI *et al.*, 1995, J1-J5), Hokkaidō, OP, northern Japan Sea, Kuril islands; northern Korea, Sakhalin.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Patella*.

Subfamily PECTINODONTINAE PILSBRY, 1891

□ Genus *Bathyacmaea* OKUTANI, TSUCHIDA & FUJIKURA, 1992

Type species: *Bathyacmaea nipponica* OKUTANI, TSUCHIDA & FUJIKURA, 1992 (o. d.)

G52 *B. nipponica* OKUTANI, TSUCHIDA & FUJIKURA, 1992

Yamato-shinkai-yuki-no-kasa

- Type locality: off Hatsushima islet, Sagami bay: 35° 00' N., 139° 13.5' E., 1110-1200 m.
- Distribution: recorded only from type locality.

G53 *B. secunda* OKUTANI, FUJIKURA & SASAKI, 1993

Shinkai-yuki-no-kasa

- Type locality: Minami-Ensei knoll (Okinawa trough): 28° 23.3' N., 127° 38.4' E., 700 m.
- Distribution: off northeastern Okinawa (Minami-Ensei knoll; Iheya ridge, 700-1400 m.)

□ Genus *Serradonta* OKUTANI, TSUCHIDA & FUJIKURA, 1992

Type species: *Serradonta vestimentifericola* OKUTANI, TSUCHIDA & FUJIKURA, 1992 (o. d.)

(= *Cerradonta sensu* SASAKI, 1988 *err. pro Serr-*)

G54 *S. vestimentifericola* OKUTANI, TSUCHIDA & FUJIKURA, 1992

Watazoko-yadori-gasa

- Type locality: Sagami bay, central Honshū, off Hatsushima island: 35° 00' N., 139° 13.50' E., 1100-1200 m.
- Distribution: Sagami bay.
- Habitat: 1000-1200 m.

Subclass ORTHOGASTROPODA PONDER &

**LINDBERG, 1996**

Superorder **VETIGASTROPODA SALVINI-PLAWEN, 1980**

Superfamily **PLEUROTOMARIOIDEA SWAINSON, 1840**

Family **PLEUROTOMARIIDAE SWAINSON, 1840**

(Refs.: Anseeuw & Gotō, 1996)

□ Genus ***Perotrochus* FISCHER, 1885**

Type species: *Pleurotomaria quoyana* FISCHER & BERNARDI, 1856 (o. d.)

(= *Mikadotrochus* LINDHOLM, 1927)

G55 ***P. teramachii* KURODA, 1955**

Teramachi-okina-ebisu

- Type locality: southern Bungo strait off western Shikoku, 100 fms.
- Distribution: off Chōshi (Chiba prefecture, central Honshū), off southern Shikoku, southwestern Kyūshū, East China Sea; South China Sea, Philippines, Indonesia, Andaman Islands.
- Habitat: 80-600m, coarse gravel and sand.

G56 ***P. diluculum* OKUTANI, 1979-b**

Akebono-okina-ebisu

- Type locality: southeast off Chōshi (Chiba prefecture, central Honshū), 250-280 m.
- Distribution: off Chōshi; Izu islands (off Miyake Island; Mikura Island, 470m).

G57 ***P. beyrichii* (HILGENDORF, 1877)**

Okina-ebisu-gai (= Chōja-gai)

- Type locality: purchased at Enoshima, Sagami bay (central Honshū).
- Distribution: off Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986), Sagami bay, Suruga bay, Enshū-nada, Izu islands, Amami islands, Ogasawara islands; Philippines.
- Habitat: 80-300 m., rocks.
- Original genus: *Pleurotomaria*.

G58 ***P. salmianus* (ROLLE, 1899)**

(= *Mikadotrochus schmalzi* SHIKAMA, 1961)

Koshitaka-okina-ebisu

- Type locality: Okinose (bank), Sagami bay, central Honshū.
- Distribution: Bōsō peninsula, Izu islands, Kii peninsula, off southern Shikoku, western Kyūshū, Japan Sea (Minoshima), Kikaishima, Senakaku islands; Philippines.
- Habitat: 100-300m, rocks.
- Original genus: *Pleurotomaria*.

G59 ***P. hirasei* (PILSBRY, 1903-c)**

(= *Mikadotrochus oishii* SHIKAMA, 1973; *M. hirasei yamamotoi* YAMAMOTO, 1993)

Beni-okina-ebisu (= Ōishi-okina-ebisu; Watanabe-okina-

ebisu; Terada-okina-ebisu)

- Type locality: Kashiwajima, Kōchi prefecture, southwestern Shikoku.
- Distribution: Bōsō peninsula, Kii peninsula and southwards, P5, EC5, East China Sea, ECP4-ECP2; Taiwan, Philippines.
- Habitat: 50-300m, rocks
- Original genus: *Pleurotomaria*.

G60 ***P. gotoi* ANSEEUW, 1990**

Gotō-okina-ebisu

- Type locality: off Balut island, Philippines; 100-120 fms.
- Distribution: Amami islands (CALLOMON, 1999: Chiribotan, in press), Okinawa, Yaeyama islands (off Kuroshima); Philippines.
- Habitat: 200-350 m., rocks.

□ Genus ***Entemnotrochus* FISCHER, 1885**

Type species: *Pleurotomaria adansoniana* CROSSE & FISCHER, 1861 (o. d.)

G61 ***E. rumphii* (SCHEPMAN, 1879)**

(= *E. urashima* SHIKAMA & ŌISHI in SHIKAMA, 1977) Ryūgū-okina-ebisu (= Urashima-okina-ebisu)

- Type locality: none designated; 'probably Moluccas' (Maluku, Indonesia ANSEEUW & GOTŌ, 1996).
- Distribution: Tosa bay (southern Shikoku), East China Sea, Amami islands, Okinawa, Yaeyama islands (west off Torishima), Senkaku islands; Taiwan, Philippines, Indonesia.
- Habitat: 50-400m, rocks, stones.
- Original genus: *Pleurotomaria*.

Superfamily **HALIOTOIDEA RAFINESQUE, 1815**

Family **HALIOTIDAE RAFINESQUE, 1815**

□ Genus ***Haliotis* LINNAEUS, 1758**

Type species: *Haliotis asinina* LINNAEUS, 1758 (s. d. MONTFORT, 1810)

(= *Teinotus* H. & A. ADAMS, 1854; *Haleotis* BINKHORST, 1861; *Tinotis* FISCHER, 1885.

G62. ***H. asinina* LINNAEUS, 1758**

Mimi-gai

- Type locality: 'in *O. Indiae*' (Indian Ocean).
- Distribution: Kōchi prefecture (southern Shikoku) and southwards, ECP4-ECP2, P2; Indo-West Pacific.
- Habitat: intertidal, coral.

□ Genus ***Sulculus* H. & A. ADAMS, 1854**

Type species: *Haliotis incisa* REEVE, 1846 (s. d. COSSMANN, 1918)

G63. ***S. diversicolor diversicolor* (REEVE, 1846 in 1843-65)**

(= *Haliotis gruneri* PHILIPPI, 1848)

Fuku-toko-bushi

- Type locality: New Holland (Australia).
- Distribution: Izu islands (Hachijō island), Ogasawara islands, Kyūshū and southwards, ECP4-ECP2; southern Korea, Indo-western Pacific.
- Habitat: intertidal, rocks.
- Original genus: *Haliotis*.

G64 *S. diversicolor supertexta* (LISCHKE, 1870 in 1868-73)

(= *Haliotis aquatilis* auct. non REEVE, 1845; *H. gruneri* var. LISCHKE, 1871; *H. exigua* DUNKER, 1877)

Toko-bushi

- Type locality: 'Nagasaki' (western Kyūshū).
- Distribution: all Japan south of southern Hokkaidō and Oga peninsula; southern Korea.
- Habitat: intertidal - 10 m., rocks.
- Original genus: *Haliotis*.

□ Genus *Nordotis* HABE & KOSUGE, 1964

Type species: *Haliotis gigantea* GMELIN, 1791 (o. d.)

G65 *N. madaka* HABE in KURODA & HABE, 1979

Madaka-awabi

- Type locality: Shima peninsula, Mie prefecture, central Honshū.
- Distribution: All Japan south of Bōsō peninsula and Oga peninsula; southern Korea.
- Habitat: subtidal to 50 m., rocks.

G66 *N. gigantea* (GMELIN, 1791)

(= *Haliotis sieboldii* REEVE, 1846)

Megai-awabi

- Type locality: 'ad novam Hollandium' (Australia).
- Distribution: Chōshi (Chiba prefecture, central Honshū) and southwards, Japan Sea (Oga peninsula and southwards), Kyūshū; southern Korea.
- Habitat: intertidal to 30 m., rocks.
- Original genus: *Haliotis*.

G67 *N. discus discus* (REEVE, 1846 in 1843-65)

Kuro-awabi

- Type locality: 'Japan'.
- Distribution: Hokkaidō (Okushiri island) and southwards, P8-P5, Japan Sea (Ibaraki prefecture, J4-J1), EC5; Korea.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Haliotis*.

G68 *N. discus hannai* (INO, 1951)

Ezo-awabi

- Type locality: northern Japan
- Distribution: southern Hokkaidō to northeastern Honshū (Ōtsuchi bay TSUCHIDA, 1990; Fukushima prefecture).
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Haliotis*.

□ Genus *Sanhaliotis* IREDALE, 1929

Type species: *Haliotis varia* LINNAEUS, 1758 (o. d.)

G69 *S. varia* (LINNAEUS, 1758)

(= *Haliotis concinna*, *semistriata*, *viridis*, all REEVE, 1846; *H. pustulifera* PILSBRY, 1890; *H. (Sanhaliotis) aliena* IREDALE, 1929; *H. (S.) howensis* IREDALE, 1929)

Ibo-anago

- Type locality: none designated.
- Distribution: Izu islands (Izu-Ōshima) and southwards, Kii peninsula, Ogasawara islands, P5, ECP4-ECP2; Indo-Pacific.
- Habitat: intertidal, rocks.
- Original genus: *Haliotis*.

G70 *S. planata* (SOWERBY II, 1882 in 1842-87)

Hira-anago

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, Ogasawara islands, P5, Japan Sea (J1), northern Kyūshū, EC5, ECP4-ECP2, P2; Philippines, Australia
- Habitat: intertidal, on rocks and on coral reefs.
- Original genus: *Haliotis*.

G71 *S. crebrisculpta* (SOWERBY III, 1914-d)

(= *Haliotis clathrata* var. *sensu* REEVE, 1846)

- Type locality: New Caledonia.
- Distribution: Ogasawara islands (FUKUDA, 1995), ECP4-ECP2, P2; Philippines, New Caledonia.
- Habitat: intertidal, on rocks and coral reefs.
- Original genus: *Haliotis*.

G72 *S. jacnensis* (REEVE, 1846 in 1843-65)

Kobito-awabi (= Kobito-jima-awabi)

- Type locality: Jacna, Bohol island, Philippines.
- Distribution: Okinoshima (southwestern Shikoku) and southwards, ECP3-ECP2; Philippines.
- Habitat: intertidal to 10 m., coral.
- Original genus: *Haliotis*.

□ Genus *Ovinotis* COTTON, 1943

Type species: *Haliotis ovina* GMELIN, 1791 (o. d.)

G73 *O. ovina* (GMELIN, 1791)

(= *Haliotis latilabris* PHILIPPI, 1848)

Ma-anago

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, Ogasawara islands, P5, ECP4-ECP2 Indo-western Pacific.
- Habitat: intertidal on rocks, coral.
- Original genus: *Haliotis*.

Superfamily **SCISSURELLOIDEA GRAY, 1847**

Family **SCISSURELLIDAE GRAY, 1847**

Subfamily **SCISSURELLINAE GRAY, 1847**

(Refs.: Habe, 1951-b)

□ Genus *Scissurella* D'ORBIGNY, 1824

Type species: *Scissurella laevigata* D'ORBIGNY, 1824 (s. d. GRAY, 1847)  
( = *Schismope* JEFFREYS, 1856; *Woodwardia* CROSSE & FISCHER, 1861)

**G74 *S. coronata* WATSON, 1885 in 1885-86**

Ko-giku-kuchikire-ebisu

- Type locality: 'Tahiti harbour, near the reefs'.
- Distribution: Amami islands and southwards; southwestern Pacific.
- Habitat: intertidal to 40 m., coarse gravel.

**G75 *S. staminea* (A. ADAMS, 1862-f)**

( = *S. turbinata* YOKOYAMA, 1924)

Kuchikire-ebisu

- Type locality: off Tsushima island, western Japan Sea; 25 fms.
- Distribution: Sagami bay and southwards, Hachijō island, Suruga bay, Shikoku, Japan Sea (Nanao bay; Tsushima), western Kyūshū; Philippines.
- Habitat: intertidal to 50 m., coarse gravel bottom.
- Original genus: *Anatomus*.

**G76 *S. sagamiana* OKUTANI, 1964-b**

Sagami-kuchikire-ebisu

- Type locality: 'Sōyō-Marū' sta. T29, Sagami bay, central Honshū: 35° 05.5' N., 139° 29.3' E., 710-770 m.
- Distribution: Sagami bay (OKUTANI, 1964-b; 1966), Suruga bay.

**Subfamily ANATOMINAE MCLEAN, 1989**

□ Genus *Anatoma* WOODWARD, 1859

Type species: *Scissurella crispata* FLEMING, 1828 (o. d.)  
( = *Schizotrochus* MONTEROSATO, 1877)

**G77 *A. concinna* (A. ADAMS, 1862-f)**

Kita-no-kuchikire-ebisu

- Type locality: 'Rifunsiri' (Rebun island, western Hokkaidō); 35 fms.
- Distribution: recorded only from type locality.
- Original genus: *Anatomus*.

**G78 *A. japonica* (A. ADAMS, 1862-f)**

( = *Scissurella exquisita* SCHEPMAN, 1908 in 1908-13)  
Nippon-kuchikire-ebisu

- Type locality: 'Mino-Sima' (off Mishima, Japan Sea), 63 fms; 'Seto-uchi' (Seto inland sea); 'Gotto' (Gotō islands, western Kyūshū); 'O-sima' (probably Kii-Ōshima, Wakayama prefecture).
- Distribution: southern Hokkaidō and southwards, Izu islands (off Miyake island OKUTANI, 1968), Sagami bay (OKUTANI, 1964-b), Suruga bay, off Kii peninsula, Japan Sea (off Mishima), Kyūshū (off Gotō islands); Indonesia.
- Habitat: intertidal to 50 m., coarse sand and stones.
- Original genus: *Anatomus*.

**G79 *A. lamellata* (A. ADAMS, 1862-f)**

Kodemari-kuchikire-ebisu

- Type locality: off Mishima, Japan Sea, 63 fms; Gotō islands (western Kyūshū), 72 fms.; 'O-sima' (probably Kii-Ōshima, Wakayama prefecture); 26 fms.
- Distribution: off Chōshi (Chiba prefecture), Sagami bay (OKUTANI, 1964-b), Shikoku, Kyūshū (HABE, 1951-b), Japan Sea (off Mishima TSUCHIDA & HORI, 1996; J1), EC5.
- Habitat: 50-70 m., coarse sand and stones.
- Original genus: *Anatomus*

**G80 *A. soyoae* (HABE, 1951-b)**

Sōyō-kuchikire-ebisu

- Type locality: 'Sōyō-Marū' sta. 647, Tsugaru strait off northern Honshū; 86 m.
- Distribution: Tsugaru strait, Hokkaidō (Ishikari bay, 85m).
- Original genus: *Schizotrochus*.

**G81 *A. maxima* (SCHEPMAN, 1908 in 1908-13)**

- Type locality: 'Siboga' sta. 178, north off Ceram island, Indonesia: 02° 40' S., 128° 37.5' E., 835 m.
- Distribution: east off Honshū, 835-1000m; Indonesia.
- Original genus: *Scissurella*.

**G82 *A. turbinata* (A. ADAMS, 1862-f)**

- Type locality: off Mishima (Japan Sea), 63 fms.
- Distribution: recorded only from type locality.
- Original genus: *Anatomus*.

□ Genus *Sukashitrochus* HABE & KOSUGE, 1964

Type species: *Scissurella carinata* A. ADAMS, 1862-f (o. d.)

**G83 *S. carinatus* (A. ADAMS, 1862-f)**

Sukashi-ebisu

- Type locality: 'Okosiri' (Okushiri island, Hokkaidō), 35 fms; 'Seto-uchi' (Seto inland sea), 16 fms.; 'Gotto' (Gotō islands off western Kyūshū), 71 fms.
- Distribution: southern Hokkaidō and southwards, Tobishima, Suruga bay, P5, J1, EC5.
- Habitat: intertidal to 150 m., coarse sand and stones.
- Original genus: *Scissurella*.

**G84 *S. miranda* (A. ADAMS, 1862-f)**

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: recorded only from type locality.
- Original genus: *Scissurella*.

**G85 *S. modesta* (A. ADAMS, 1862)**

- Type locality: 'Tabu-Sima' (Tobishima, northern Japan Sea); 25 fms.
- Distribution: recorded only from type locality.
- Original genus: *Scissurella*.

**Superfamily FISSURELLOIDEA FLEMING, 1822**



Family **FISSURELLIDAE FLEMING, 1822**

Subfamily **EMARGINULINAE GRAY, 1834**

□ Genus ***Emarginula* LAMARCK, 1801**

Type species: *Emarginula conica* LAMARCK, 1801 (o. d.)  
(= *Emarginulus* MONTFORT, 1810; *Imarginula* GRAY, 1821)

G86 ***E. punctata* A. ADAMS, 1852-a**

(= *E. pileata* GOULD, 1859; *E. altilis* GOULD, 1859)

Komon-suso-kire

- Type locality: San Nicolas, Cebu, Philippines; low water under stones.
- Distribution: Kii peninsula and southwards, EC5, ECP4-ECP2, P2; Indo-West Pacific.
- Habitat: intertidal to 20 m. on coarse gravel.

G87 ***E. variegata* A. ADAMS, 1852-a**

(= *E. fuliginea* KURODA, 1941)

Susu-iro-suso-kire

- Type locality: 'Isle of Camaguan, Philippines; on exposed rocks, low water'.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, western Pacific
- Habitat: intertidal on rocks and coarse gravel.

G88 ***E. crasscostata* SOWERBY II in ADAMS & SOWERBY II, 1863**

Suso-kire-gai

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Yamagata prefecture and northwards J3-J1); Korea (Cheju island), western Pacific.
- Habitat: intertidal to 75 m. on stones and coarse gravel.

G89 ***E. regia* HABE, 1953-e**

Daiō-suso-kire

- Type locality: Tosa bay, southern Shikoku; 100 fms.
- Distribution: off Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986), Sagami bay, Suruga bay, Tosa bay, Izu islands (dredged on Zenisu bank TSUCHIDA & IKEBE, 1991).
- Habitat: 100-200 m., sandy mud.

G90 ***E. foveolata foveolata* SCHEPMAN, 1908 in 1908-13**

- Type locality: 'Siboga' sta. 105, north off Jolo island, Sulu Archipelago, southern Philippines: 06° 8' N., 121° 19' E., 275 m.
- Distribution: off Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986), southwestern Shikoku (Okino-se bank, off Okinoshima, TSUCHIDA, 1989); Indonesia.

G91 ***E. foveolata fujitai* HABE, 1953-e**

(= *E. foveolata* SCHEPMAN *sensu* FUJITA, 1929 *non* SCHEPMAN, 1908)

Kōshi-suso-kire

• Type locality: off Tateyama, Bōsō peninsula, central Honshū.

• Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (off Fukui prefecture, J2-J1), EC5.

• Habitat: 50-200 m., sandy mud.

G92 ***E. hataii* HABE, 1953-e**

(= *E. foveolata* NOMURA & HATAI, 1940 *non* SCHEPMAN, 1904)

Hatai-suso-kire

- Type locality: Kyuroku island, northern Japan Sea; 150-210 m.
- Distribution: Japan Sea (off Noto peninsula; off Niigata prefecture; Sado island; off Tsuruga bay).
- Habitat: 80-250 m., sandy mud.

G93 ***E. fragilis* YOKOYAMA, 1920**

Habutae-suso-kire

- Type locality: Harashita, Shimo-Miyata, Kanagawa prefecture, central Honshū (fossil).
- Distribution: Bōsō peninsula and southwards, Izu islands, P7-P5, southwestern Shikoku (Okino-se bank, off Okinoshima TSUCHIDA, 1989), Japan Sea (Wakasa bay, J2-J1), EC5.
- Habitat: 50-200 m., sandy mud.

G94 ***E. hosoyai* HABE, 1953-e**

Hosoya-suso-kire

- Type locality: Tosa bay, southern Shikoku; ± 70 fms.
- Distribution: Chōshi (Chiba prefecture, central Honshū) and southwards, Izu islands, P7-P5, Tosa bay.
- Habitat: 50-200m, sandy mud.

G95 ***E. teramachii* HABE, 1953-e**

Teramachi-suso-kire

- Type locality: Tosa bay, southern Shikoku; ± 70 fms
- Distribution: Sagami bay and southwards, Mie prefecture (off Owase, 200 m. MATSUMOTO, 1979), Tosa bay.
- Habitat: 50-300 m., sand.

G96 ***E. choristes* DALL, 1925-a**

Eboshi-suso-kire

- Type locality: 'Albatross' sta. 4917, eastern Sea of Japan.
- Distribution: Izu islands (dredged on Zenisu bank TSUCHIDA & IKEBE, 1991), southwestern Kyūshū (off Makurazaki), Amami islands (off Okino-Erabu island).
- Habitat: 300-600 m., sand.

G97 ***E. adamsiana* SOWERBY II in ADAMS & SOWERBY II, 1863**

Chidori-suso-kire

- Type locality: Japan.
- Distribution: Japan Sea, central Honshū (KIRA, 1946).

G98 ***E. tosaensis* HABE, 1953-e**

(= *E. maculata* SOWERBY, 1873 *non* A. ADAMS, 1863)

Tosa-suso-kire

- Type locality: Tosa bay, southern Shikoku; ± 70 fms.
- Distribution: Sagami bay and southwards, Kii peninsula, Tosa bay, western Kyūshū.
- Habitat: 50-150 m., sand.

G99 *E. maculata* A. ADAMS in A. ADAMS & SOWERBY II, 1863

Dandara-suso-kire

- Type locality: off Gotō islands, western Kyūshū.
- Distribution: Sagami bay and southwards, Suruga bay, off Gotō islands.
- Habitat: 100-150 m., sand.

G100 *E. japonica* SOWERBY II in ADAMS & SOWERBY II, 1863

Nippon-suso-kire

- Type locality: Japan
- Distribution: unknown.

G101 *E. concinna* A. ADAMS, 1852-a

Kinuji-suso-kire

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2.
- Habitat: intertidal to 20m, coarse sand and stones.

G102 *E. kashimaensis* SHIKAMA, 1962-a

Kashima-suso-kire

- Type locality: ± 72 miles southeast off Chōshi (Chiba prefecture, central Honshū); 250 fms.
- Distribution: Kashima-nada (off Ibaraki prefecture, central Honshū).

G103 *E. compta* HABE, 1953-e

Hokuro-suso-kire (= Yakko-suso-kire)

- Type locality: Okinawa.
- Distribution: Amami islands and southwards, ECP3-ECP2, Okinawa.
- Habitat: intertidal to 10 m., rocks.

G104 *E. souverbiana* PILSBRY, 1891 in 1888-96

- Type locality: Île d'Art, New Caledonia.
- Distribution: Amami islands and southwards, ECP3-ECP2, Okinawa; New Caledonia.
- Habitat: intertidal to 20 m., rocks.

G105 *E. imaizumi* DALL, 1926-a

(= *E. imaizumi* var. *imella*, DALL, 1926)

Satsuma-suso-kire

- Type locality: Imaizumi, Kagoshima bay, southern Kyūshū; on oysters, 50 fms.
- Distribution: Sagami bay and southwards, P6-P5, western Seto inland sea (TSUCHIDA, HORI & MITOKI, 1991), western and southern Kyūshū.
- Habitat: intertidal to 100 m., rubble.

G106 *E. amyda* SHIKAMA, 1962-a

Suppon-suso-kire

- Type locality: ± 72 miles southeast off Chōshi (Chiba prefecture, central Honshū); 250 fms.
- Distribution: recorded only from type locality.

G107 *E. paucipunctata* SCHEPMAN, 1913 in 1908-13

Soto-ori-suso-kire

- Type locality: 'Siboga' sta. 213, Selayar island off southern Celebes (Sulawesi), Indonesia; on reef.
- Distribution: Okinawa and southwards, ECP2, P2; Indonesia.
- Habitat: intertidal on rocks.

G108 *E. dilecta* A. ADAMS, 1852-a

(= *E. montrouzieri* SOWERBY, 1872; *E. clathrata* PEASE, 1863 non DESHAYES, 1824; *E. subclathrata* PILSBRY, 1890; *E. peasei* THIELE, 1915)

Kagome-suso-kire

- Type locality: King George's sound, southern Australia.
- Distribution: Okinawa islands (KIRA, 1946; SHIMIZU, 1971); Australia, Hawaii.
- Habitat: intertidal to 10 m., rocks.

G109 *E. textilis* GOULD, 1859 in 1859-61

- Type locality: Amami Ōshima, on surf-washed rocks.
- Distribution: 'Pacific coast, 28°-29° N.' (KURODA & HABE, 1952-a).

□ Genus *Laeviemarginula* HABE, 1953-b

Type species: *Laeviemarginula membranacea* HABE, 1953-b (o. d.; = *Emarginula kimberti* COTTON, 1930)

G111 *L. kimberti* (COTTON, 1930)

(= *L. membranacea* HABE, 1953-b)

Suso-kake-kozaru-awabi (= Hime-saru-awabi)

- Type locality: Queensland, Australia.
- Distribution: Kii peninsula (south off Kushimoto), Tosa bay, ECP4-ECP2.
- Habitat: subtidal to 100 m., rocks.
- Original genus: *Emarginula*.

□ Genus *Nesta* H. ADAMS, 1870

Type species: *Nesta candida* H. ADAMS, 1870 (o. d.)

G112 *N. amamiensis* HABE, 1963-b

Kona-yuki-suso-kire

- Type locality: Ankyaba, Kakeroma island (Amami Group).
- Distribution: Amami islands.
- Habitat: intertidal to 20 m., coarse sand and stones.

□ Genus *Emarginella* PILSBRY, 1890

Type species: *Emarginula cuvieri* AUDOIN, 1826

G113 *E. incisula* (A. ADAMS, 1852-a)

Kirezara (= Zōri-suso-kire; Zōri-kire-zara)

- Type locality: none designated.

- Distribution: Izu islands and southwards, P6-P5, ECP4-ECP2, P2; Philippines, Indonesia.
- Habitat: intertidal to 80 m., rocks.
- Original genus: *Emarginula*.

G114 *E. planulata* (A. ADAMS, 1852-a)

Waraji-kire-zara (= Hira-kire-zara)

- Type locality: Singapore; 7 fms., coarse sand and shells.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Singapore.
- Habitat: intertidal to 20 m., sand & shell bottom.
- Original genus: *Emarginula*.

G115 *E. eximia* (A. ADAMS, 1852-a)

Koban-suso-kire

- Type locality: San Nicolas, Cebu, Philippines; low water, under stones.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines.
- Habitat: intertidal to 10 m., coarse gravel.
- Original genus: *Emarginula*.

G116 *E. biangulata* (SOWERBY III, 1901 in 1901-02)

Futakado-suso-kire

- Type locality: 'Island of Cebu, Philippines'.
- Distribution: Ogasawara islands (FUKUDA, 1993), Amami islands and southwards, ECP3-ECP2, P2; Philippines.
- Habitat: intertidal on rocks and coral.
- Original genus: *Emarginula*.

G117 *E. okinawaensis* HABE, 1953-e

Kuzuya-suso-kire (= Okinawa-kire-zara)

- Type locality: Okinawa.
- Distribution: Amami islands (Yoron ARAKAWA, 1957), Okinawa islands.
- Habitat: intertidal to 20 m., coarse sand and stones.

G118 *E. sakuraii* HABE, 1963-b

Naga-koban-suso-kire

- Type locality: Ankyaba, Kakeroma island (Amami islands).
- Distribution: Ogasawara islands (Anijima, 12-20m FUKUDA, 1993), Kakeroma island.
- Habitat: intertidal to 20 m., rubble.

G119 *E. imella* (DALL, 1926-a)

- Type locality: Imaizumi, Kagoshima bay, southern Kyūshū.
- Distribution: Kagoshima bay; 'Pacific side, 31° N.' (KURODA & HABE, 1952-a).
- Original genus: *Emarginula* (as ssp. of *E. imaizumai*).

□ Genus *Zeidora* A. ADAMS, 1860-b

Type species: *Zeidora calceolina* A. ADAMS, 1860 (o. d.) (= *Crepiemarginula* SEGUENZA, 1880; *Zidora*

FISCHER, 1885; *Legrandia* BEDDOME, 1883 non HANLEY, 1872)

(Refs.: Horikoshi, 1944)

G120 *Z. calceolina* A. ADAMS, 1860-b

(= *Z. reticulata* A. ADAMS, 1862; *Z. limatulaeformis*, HORIKOSHI, 1944)

Fune-suso-kire-gai (= Kōshi-fune-suso-kire; Yuki-bane-fune-suso-kire; Amime-fune-suso-kire)

- Type locality: 'Straits of Korea, 16 miles from Mino-Sima' (Mishima); 63 fms.
- Distribution: Sagami bay and southwards, P7-P5, Japan Sea (off Mishima, J2-J1), East China Sea, EC5, ECP4.
- Habitat: 50-200 m., fine sand.

□ Genus *Tugali* GRAY in DIEFFENBACH, 1843

Type species: *Tugali elegans* GRAY, 1843 (o. d.; = *Emarginula parmophoidea* QUOY & GAIMARD, 1834) (= *Tugalia* GRAY, 1847)

G121 *T. decussata* A. ADAMS, 1852-a

(= *Emarginula angustata* THIELE, 1915)

Shiro-suso-kakegai

- Type locality: 'Philippine Islands'.
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Tobishima, J3-J1), EC5; southeastern Korea, tropical western Pacific.
- Habitat: intertidal to 50 m., on rocks and coarse gravel.

G122 *T. scutellaris* A. ADAMS, 1852-a

Kozaru-awabi

- Type locality: Bais, Philippines.
- Distribution: Kii peninsula and southwards, southern Kyūshū, P5, ECP4-ECP2, P2; Philippines.
- Habitat: intertidal to 20 m., rocks.

□ Genus *Tugalina* HABE, 1953-b

Type species: *Tugalina radiata* HABE, 1953 (mt.)

Subgenus *Tugalina s.str.*

G123 *T. (T.) radiata* HABE, 1953-b

Hinode-saru-awabi

- Type locality: Okinawa.
- Distribution: southwestern Shikoku (Kashiwajima), Amami islands and southwards, ECP3-ECP2.
- Habitat: intertidal to 10 m., coarse sand and stones.

G124 *T. (T.) plana* (SCHEPMAN, 1908 in 1908-13)

Onedaka-saru-awabi

- Type locality: 'Siboga' sta. 282, 'between Nusa Besi and the N. E. point of Timor. Reef and 27-45 m.' (Indonesia).
- Distribution: Kii peninsula (Cape Shio) and southwards, P5, ECP4-ECP2, P2; Philippines, Indonesia.
- Habitat: intertidal, on rocks.
- Original genus: *Subemarginula*.

Subgenus *Scelidotoma* MCLEAN, 1966

Type species: *Emarginula bella* GABB, 1865 (o. d.)

G125 *T. (S.) gigas* (MARTENS, 1881)

Saru-awabi

- Type locality: northern Honshū.
- Distribution: northeastern Honshū (Fukushima prefecture) and northwards, Iwate prefecture (Ōtsuchi bay TSUCHIDA, 1990), P8-P10, Japan Sea (J2-J5); Primoriye region (Japan Sea coast of Russia), northern Korea, Sakhalin.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Subemarginula*.

G126 *T. (S.) vadososinuata* (YOKOYAMA, 1922)

Koshitaka-saru-awabi

- Type locality: Shitō, Ichihara City, Chiba prefecture, central Honshū.
- Distribution: off Chōshi (Chiba prefecture) and northwards, Iwate prefecture (Ōtsuchi bay TSUCHIDA, 1990), P8-P10, Japan Sea (Noto peninsula, J2-J4).
- Habitat: 100-300 m., rocks.
- Original genus: *Emarginula*.

□ Genus *Scutus* MONTFORT, 1810 in 1808-10

Type species: *Scutus antipodes* MONTFORT, 1810 (o. d.) (= *Parmophorus* BLAINVILLE, 1817; *Parmaphora* BOWDICH, 1822; *Parmaphora* DESMAREST, 1859; *Scutum* SOWERBY, 1842 non SCHUMACHER, 1817) Subgenus *Aviscutum* IREDALE, 1940  
Type species: *Scutus olungius* IREDALE, 1940 (o. d.; = *S. unguis* LINNAEUS, 1758)

G127 *S. (A.) unguis* (LINNAEUS, 1758)

(= *Parmophorus granulatus* BLAINVILLE, 1817; *P. elegans* GRAY, 1825; *P. emarginatus* PHILIPPI, 1825; *Scutus imbricatus* QUOY & GAIMARD, 1833; *S. corrugatus* A. ADAMS, 1853; *S. unguis* var. *sensu* E. A. SMITH, 1879 (*pars*); *S. olungius* IREDALE, 1940)  
Ryūkyū-otome-gasa

- Type locality: 'in Amboina, ad littora, sub Arena' (Ambon island, Indonesia; on beach, under sand).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia.
- Habitat: intertidal to 10 m., rubble.
- Original genus: Patella.

G128 *S. (A.) sinensis* (BLAINVILLE, 1825 in 1816-30)

(= *Scutus angustatus* A. ADAMS, 1853; *S. corrugatus* SOWERBY, 1870 non A. ADAMS, 1853; *Parmophorus japonicus* TAPPARONE-CANEFRI, 1874; *Scutus unguis* var. *sensu* E. A. SMITH, 1879 (*pars*); *Scutus scapha* S. HIRASE, 1934)

Otome-gasa

- Type locality: China.
- Distribution: southern Hokkaidō and southwards to

Kyūshū, Japan Sea (Hokkaidō to northern Kyūshū), Korea, coastal China.

- Habitat: intertidal to 60 m., rubble and gravel.
- Original genus: *Parmophorus*.

G129 *S. (A.) virgo* HABE, 1951-c

Sa-otome-gasa

- Type locality: Okinawa.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2.
- Habitat: intertidal, rubble.

□ Genus *Rimula* DEFRANCE, 1827

Type species: *Rimula blainvilli* DEFRANCE, 1827 (s. d. GRAY, 1847)  
(= *Rimularia* BRONN, 1838)

G130 *R. exquisita* A. ADAMS, 1853-g

Mado-aki-gai

- Type locality: Catanuan (Luzon) and Burias, Philippines; 7 and 10 fms., on dead shells.
- Distribution: Izu islands (Hachijō island) and southwards, Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia.
- Habitat: intertidal, rubble.

G131 *R. cumingii* A. ADAMS, 1853-g

Semushi-madoaki-gai

- Type locality: 'Eastern seas'.
- Distribution: Ogasawara islands (Chichijima, 84 m. FUKUDA, 1993), Suruga bay, Seto inland sea (Awaji island), Japan Sea (Sado island and southwards), western Kyūshū (Imari bay, EC5).
- Habitat: intertidal to 50 m., rubble.

□ Genus *Fissurisepta* SEGUENZA, 1863

Type species: *Fissurisepta papillosa* SEGUENZA, 1863 (s. d. WOODRING, 1928)

G132 *F. soyoae* HABE, 1951-c

Fuji-sukashi-gai

- Type locality: 'Sōyō-Marū' sta. 255, off Izu peninsula (central Honshū); 263 m.
- Distribution: Sagami bay, off Izu peninsula, Suruga bay.
- Habitat: 120-270 m., sand & shell bottom.

G133 *F. undulata* (OKUTANI, 1964-b)

Watazoko-fuji-sukashi-gai

- Type locality: 'Sōyō-Marū' sta. B5, 26 miles off Torishima, Izu islands: 30° 20.0' N., 140° 38.4' E., 2280 m.
- Distribution: recorded only from type locality.
- Original genus: *Puncturella* (*Fissurisepta*).

G134 *F. granitesta* OKUTANI, 1968-a

Hoso-suji-fuji-sukashi-gai

- Type locality: 'Sōyō-Marū' sta. B2, off Miyake island, Izu islands: 34° 22.2' N., 139° 41.9' E., 1080-1205 m.

- Distribution: recorded only from type locality.

□ Genus *Puncturella* **LOWE, 1827**

Type species: *Patella noachina* LINNAEUS, 1758  
(= *Sipho* BROWN, 1827 non FABRICIUS, 1823; *Sypho* BROWN, 1833; *Cremoria* GRAY, 1842; *Cemoria* LEACH, 1852 non RISSO, 1826)

G135 *P. nobilis* **(A. ADAMS, 1860-i)**

Kōdaka-sukashi-gai

- Type locality: 'Okosiri' (Okushiri island, Hokkaidō); 35 fms.
- Distribution: Suruga bay and northwards, P6-P10, Japan Sea (northern Yamaguchi prefecture, J1-J5), OP; Kuril islands.
- Habitat: intertidal to 85 m., rubble.
- Original genus: *Cemoria*.

G136 *P. curva* **GOLIKOV & GULBIN, 1977**

- Type locality: Kuril islands.
- Distribution: recorded only from type locality.

G137 *P. kawamurai* **HABE, 1961-a**

Kawamura-sukashi-gai

- Type locality: off Chōshi, Chiba prefecture, central Honshū; ± 200 m.
- Distribution: Bōsō peninsula and northwards, P8-P10, OP; Kuril islands (GOLIKOV, 1977).
- Habitat: 100-200 m., rubble.

G138 *P. hirasei* **ŌTSUKA, 1935**

Ōtsuka-kōdaka-sukashi-gai

- Type locality: Okinose bank, Sagami bay, central Honshū.
- Distribution: Sagami bay, Japan Sea (off Sado island).
- Habitat: 200-1200 m., rubble.

G139 *P. sinensis* **SOWERBY III, 1894-a**

Shina-kōdaka-sukashi-gai

- Type locality: 'Hongkong'.
- Distribution: off Chōshi (Chiba prefecture, central Honshū), western Kyūshū (off Nagasaki, 148 m.; off Tsushima island, 112-143 m.), East China Sea; Hong Kong.

G140 *P. fastigiata* **A. ADAMS, 1853-h**

(= *P. subconica* YOKOYAMA, 1920)

Ensui-sukashigai

- Type locality: 'Eastern seas'.
- Distribution: southwestern Hokkaidō and southwards, off Tsugaru peninsula, Iwate prefecture (Ōtsuchi bay TSUCHIDA, 1990), P10-P5, Japan Sea (off Sado island, J4-J1), EC5, East China Sea; China.
- Habitat: 30-350 m., sandy gravel.

G141 *P. rimaizenaensis* **OKUTANI, FUJIKURA & SASAKI, 1993**

Izena-kōdaka-sukashigai

- Type locality: Izena hole (Okinawa trough): 27° 16.1' N.,

127° 04.9' E., 1340 m.

- Distribution: recorded only from type locality.

G142 *P. parvinobilis* **OKUTANI, FUJIKURA & SASAKI, 1993**

Nanen-kōdaka-sukashigai

- Type locality: Minami-Ensei knoll (Okinawa trough): 28° 23.5' N., 127° 38.4' E., 690 m.
- Distribution: recorded only from type locality.

G143 *P. dorcas* **KIRA & HABE, 1949-a**

Okugata-sukashi-gai (= Okugata-sukashi-gasa-gai)

- Type locality: off Kōchi prefecture, southern Shikoku; ± 100 fms.
- Distribution: off Kōchi prefecture, off Yakushima ('Sōyō-Maru' sta. 414, 514 m.)

G144 *P. teramachii* **KIRA & HABE, 1949-a**

Teramachi-sukashi-gai

- Type locality: off Kōchi prefecture, southern Shikoku.
- Distribution: recorded only from type locality.

G145 *P. regia* **(SHIKAMA & HABE in HABE, 1961-a)**

(= *P. gigantea* SCHEPMAN *sensu* S. HIRASE, 1934)

Ō-kōdaka-sukashi-gai

- Type locality: off Chōshi (Chiba prefecture, central Honshū); ± 200 m.
- Distribution: Chōshi to Sagami bay, Kii peninsula.
- Habitat: 100-300 m., coarse sand and stones.

□ Genus *Cranopsis* **A. ADAMS, 1860**

Type species: *Cranopsis pelex* A. ADAMS, 1860 (o. d.)

(= *Rimulanax* IREDALE, 1924; *Craniopsis* WENZ, 1938; *Kira* HABE, 1951)

G146 *C. pelex* **A. ADAMS, 1860-b**

Yabure-gasa

- Type locality: 'off Mino-Sima' (Mishima, western Japan Sea); 63 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Aomori prefecture, J4-J1), EC5, East China Sea.
- Habitat: 50-350 m., sand & shell bottom.

G147 *C. tosaensis* **(HABE, 1951-c)**

Tosa-kōdaka-sukashigai

- Type locality: Tosa bay, southern Shikoku.
- Distribution: off Chōshi (Chiba prefecture, central Honshū), off western Kii peninsula to Tosa bay.
- Habitat: 100-300 m., coarse sand and stones.
- Original genus: *Puncturella* (*Cranopsis*).

G148 *C. pileolus* **A. ADAMS, 1860-f**

Hime-kōdaka-sukashigai

- Type locality: 'Straits of Korea; 63 fms'.
- Distribution: Japan Sea (off Mishima, J2), southern Shikoku (Cape Muroto; off Kōchi prefecture, 234m),

Kyūshū (off Makurazaki, 192m).

□ Genus *Montfortista* IREDALE, 1929

Type species: *Montfortista excentrica* IREDALE, 1929 (o. d.)

G149 *M. oldhamiana* (NEVILL in NEVILL & NEVILL, 1869)

Chidori-gasa (= Neji-re-gasa)

- Type locality: Ceylon (Sri Lanka).
- Distribution: Sagami bay and southwards, P6-P5, Japan Sea (central Yamagata prefecture, J3-J1), EC5, ECP4-ECP2, P2; Philippines, Indo-West Pacific.
- Habitat: intertidal on rocks.
- Original genus: *Subemarginula*.

□ Genus *Montfortia* RÉCLUZ, 1843

Type species: *Emarginula australis* QUOY & GAIMARD, 1834 (s. d. IREDALE, 1915)

G150 *Mo. kirana* HABE, 1963-b

Mikaeri-chidori-gasa

- Type locality: Ankyaba, Kakeroma island (Amami Group).
- Distribution: Kii peninsula (Cape Shio) and southwards, P5, EC5, ECP4-ECP2.
- Habitat: intertidal on rocks.

G151 *Mo. panhi* (QUOY & GAIMARD, 1834 in 1832-35)

(= *Emarginula clathrata* ADAMS & REEVE, 1850 in 1848-50; *Subemarginula panhiensis* A. ADAMS, 1852; *Emarginula tricarinata* PILSBRY, 1890)

Kagome-chidori-gasa

- Type locality: Tonga Tabu, south Pacific.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Palau, Tonga.
- Habitat: intertidal on rocks.
- Original genus: *Emarginula*.

□ Genus *Montfortula* IREDALE, 1915

Type species: *Emarginula rugosa* QUOY & GAIMARD, 1834 (o. d.)

G152 *Mf. polygonalis* (A. ADAMS, 1852-a)

Mizukaki-suso-kake-gai (Mikazuki-suso-kake-gai)

- Type locality: Catanuan, Philippines.
- Distribution: Tokunoshima (Amami islands) and southwards, ECP3-ECP2, P2; Philippines.
- Habitat: intertidal on rocks.
- Original genus: *Subemarginula*.

G153 *Mf. pulchra pulchra* (A. ADAMS, 1852-a)

Minami-suso-kake-gai

- Type locality: 'Isle of Camaguan, Philippines, on exposed rocks, low water'.
- Distribution: P2; Taiwan and southwards, Philippines,

Australia.

- Original genus: *Emarginula*.

G154 *Mf. pulchra picta* (DUNKER, 1860)

(= *Subemarginula pulchra sensu* IWAKAWA, 1919; *S. cratitoides* YOKOYAMA, 1926)

Suso-kake-gai

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: Ogasawara islands (Okino-Torishima NISHIMURA, 1989), Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5; southwestern Korea (Cheju island).
- Habitat: intertidal on rocks.
- Original genus: *Emarginula*.

□ Genus *Montfortulana* HABE, 1961-a

Type species: *Subemarginula eurhythma* DAUTZENBERG, 1908 (o. d.)

G155 *Ml. eurythma* (DAUTZENBERG, 1908)

Waki-yorigai

- Type locality: Lifu, New Caledonia.
- Distribution: Amami islands, ECP3-ECP2; New Caledonia.
- Habitat: intertidal on rocks.
- Original genus: *Subemarginula* (*Plagiorhytis*).

Subfamily **DIODORINAE WENZ, 1938**

□ Genus *Diodora* GRAY, 1821

(Refs.: Ōtsuka, 1937-b)

Type species: *Patella apertura* MONTAGU, 1803 (o. d.; = *Patella graeca* LINNAEUS, 1758)

(= *Glyphis* CARPENTER, 1857 non AGASSIZ, 1843; *Capiluna* GRAY, 1857; *Monodilepas* FINLAY, 1926)

Subgenus *Diodora* s. str.

G156 *D. (D.) sieboldii* (REEVE, 1850 in 1843-65)

(= *Lucapina pfeifferi* DUNKER, 1877)

Kuzuya-gai

- Type locality: 'Japan'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Sado island, J3-J1), EC5; southwestern Korea (Cheju island), western Pacific.
- Habitat: intertidal to 20 m., rocks and gravel.
- Original genus: *Fissurella*.

G157 *D. (D.) suprapunicea* ŌTSUKA, 1937-b

Ōtsuka-tengai

- Type locality: Onjuku, Awa district, Chiba prefecture, central Honshū (fossil)
- Distribution: off Chōshi (Chiba prefecture, central Honshū) & southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5.
- Habitat: intertidal to 20 m., rocks and gravel.

G158 *D. (D.) yokoyamai yokoyamai* ŌTSUKA, 1937-b

Yokoyama-tengai

- Type locality: off Cape Shio (Kii peninsula, central Honshū), 200 m.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, Sagami bay, Enshū-nada, southern Shikoku.
- Habitat: 100-200 m., rubble.

G159 *D. (D.) yokoyamai koshibensis* ŌTSUKA, 1937-b

Koshiba-tengai (= Tosa-tengai)

- Type locality: Koshiba, Kanagawa ward, Yokohama City (fossil).
- Distribution: off Kōchi prefecture (southern Shikoku), 100 fms.

G160 *D. (D.) funiculata* (REEVE, 1850 in 1843-65)

Hira-ootsuka-tengai

- Type locality: none designated.
- Distribution: southern Kyūshū (Kagoshima KIRA, 1946); western Pacific to Indian Ocean.
- Habitat: intertidal.
- Original genus: *Fissurella*.

G161 *D. (D.) mus* (REEVE, 1850 in 1843-65)

Asa-tengai

- Type locality: none designated.
- Distribution: Ogasawara islands (Chichijima FUKUDA, 1993), Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2; tropical western Pacific.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Fissurella*.

G162 *D. (D.) octagona* (REEVE, 1850 in 1843-65)

Kami-kuzuya-gai

- Type locality: Island of Ticao, Philippines; on dead shells.
- Distribution: Ogasawara islands (Chichijima FUKUDA, 1995); Philippines, Indo-western Pacific, Hawaii, Australia.
- Habitat: shallow water, under rocks.
- Original genus: *Fissurella*.

G163 *D. (D.) singaporensis* (REEVE, 1850 in 1843-65)

Mezumari-zaru-tengai

- Type locality: Singapore.
- Distribution: Ogasawara islands (Chichijima FUKUDA, 1995); Indo-western Pacific, Australia.
- Habitat: intertidal, under rocks.
- Original genus: *Fissurella*.

Subgenus *Elegidion* IREDALE, 1924

Type species: *Diodora audax* IREDALE, 1924 (o. d.) (= *Elegidion* COTTON & GODFREY, 1945)

G164 *D. (E.) semilunata* HABE, 1953-b

Mikazuki-tengai

- Type locality: Okinawa.

- Distribution: Cape Shio (Kii peninsula) and southwards, P5, ECP4-ECP2.

- Habitat: intertidal on rocks.

G165 *D. (E.) quadriradiata* (REEVE, 1850 in 1843-65)

(= *Fissurella tiaconica* REEVE, 1850 in 1843-65; *Fissuidea elaborata* SOWERBY III, 1914)

Tengai

- Type locality: Philippines.
- Distribution: Ogasawara islands (Chichijima FUKUDA, 1993), Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2; Korea (Cheju island), Indo-West Pacific.
- Habitat: intertidal to 30 m., coarse sand and stones.
- Original genus: *Fissurella*.

Subfamily FISSURELLINAE FLEMING, 1822

(Refs.: Habe, 1951-c)

□ Genus *Macroschisma* SOWERBY I, 1839

Type species: *Patella macroschisma* SOLANDER, 1786 (o. d.)

(= *Machroschisma* SWAINSON, 1840; *Macroshisma* AGASSIZ, 1846; *Macrochisma* A. ADAMS, 1855; *Dolichoschisma* IREDALE, 1940)

G166 *M. sinensis* (A. ADAMS, 1855-o)

(= *Patella macroschisma* DILLWYN, 1817 non HUMPHREY, 1786; *M. maxima* A. ADAMS, 1851 non SOWERBY, 1839; *M. sinensis brevis* YOKOYAMA, 1922)

Sukashi-gai

- Type locality: 'China seas'.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards; P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea (Pusan; Hajju), western Pacific.
- Habitat: intertidal to 50 m., rocks or coarse gravel.
- Original genus: *Macrochisma* (*sic*).

G167 *M. dilatata* (A. ADAMS, 1851-d)

(= *M. lischkei* PILSBRY, 1894)

Hira-sukashi-gai (= Sukashi-gasa)

- Type locality: none designated.
- Distribution: Ogasawara islands (Chichijima, 84 m. FUKUDA, 1993), northeastern Honshū (Iwate prefecture) and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5; southeastern Korea.
- Habitat: intertidal to 150 m., on coarse gravel.
- Original genus: *Macrochisma* (*sic*).

G168 *M. compressa* (A. ADAMS, 1851-d)

Ijike-sukashi-gai

- Type locality: none designated.
- Distribution: Kii peninsula and southwards.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Macrochisma* (*sic*)

G169 *M. cuspidata* (A. ADAMS, 1851-d)

Yajiri-sukashi-gai

- Type locality: 'Cagayan, in insulis Philippinis' (Philippines).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, tropical Pacific.
- Habitat: intertidal to 10 m., rocks.
- Original genus: *Macrochisma* (*sic*).

Superfamily **TROCHOIDEA RAFINESQUE, 1815**

(Refs.: Hickman & McLean, 1990)

Family **TURBINIDAE RAFINESQUE, 1815**

Subfamily **LIOTIINAE H. & A. ADAMS, 1854**

□ Genus *Bathylotina* **HABE, 1961-a**

Type species: *Liotia armata* A. ADAMS, 1861 (o. d.)

G170 *B. armata* (A. ADAMS, 1861-e)

Mihikari-hime-katabe (= Mihikari-katabe)

- Type locality: Korea strait, 46 fms.
- Distribution: Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986) and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5.
- Habitat: 50-200m, coarse sand and stones.
- Original genus: *Liotia*.

G171 *B. schepmani* (HABE, 1953-g)

(= *Liotina armata* var. *sensu* SCHEPMAN, 1908 in 1908-13)

Umi-hime-katabe

- Type locality: R. V. 'Siboga' sta. 49, Indonesia: 5° 43.05' N., 119° 40.0' E., 522 m.
- Distribution: Sagami bay and southwards, P6-P5, EC5, ECP4-ECP2; Indonesia, southwest Pacific.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Dentarene*.

□ Genus *Liotina* **MUNIEX-CHALMES in FISCHER, 1885**

Type species: *Delphinula gervillei* DEFRANCE, 1818 (s. d. COSSMANN, 1888)

Subgenus *Liotinaria* **HABE, 1955-d**

Type species: *Liotia solidula* GOULD, 1859 (o. d.)

G172 *L. (Ln.) solidula* (GOULD, 1859-c)

(= *Liotia langfordi* DALL, 1926)

Chirimen-hime-katabe (= Maru-hime-katabe)

- Type locality: off coast of China, 25 fms. ('Kagoshima, Japan' is data attached to designated lectotype; see JOHNSON, 1961)
- Distribution: Sagami bay and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2; China.
- Habitat: 5-20 m., coarse sand and stones.
- Original genus: *Liotia*.

G173 *L. (Ln.) semiclathratula* (SCHRENCK, 1862 in 1862-63)

Hime-katabe

- Type locality: 'Sangar strait' (Tsugaru strait, between Honshū and Hokkaidō).
- Distribution: Tsugaru strait and southwards, P10-P5, Japan Sea (J4-J1), EC5, Ogasawara islands (Chichijima FUKUDA, 1993).
- Habitat: subtidal to 100m, rocks and gravel.
- Original genus: *Liotia*.

G174 *L. (Ln.) peronii* (KIENER, 1839 in 1834-50)

(= *Liotina fijiensis* PILSBRY, 1934; *L. (Ln.) ryukyuensis* HABE, 1991-d)

Ryūkyū-hime-katabe (= Kongō-hime-katabe)

- Type locality: 'les mers de l'Océanie, les côtes de la Nouvelle-Hollande, les îles Saint-Pierre et Saint-François' (seas of Oceania, coasts of Australia and St. Francis islands, off Ceduna, South Australia).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Australia, Indo-Pacific.
- Habitat: 5-20 m., rocks, coarse sand and stones among seaweed.
- Original genus: *Liotia*.

G175 *L. (Ln.) tantilla* (A. ADAMS, 1863-c)

Kobito-katabe

- Type locality: Gotō islands, off western Kyūshū; 71 fms.
- Distribution: Kii peninsula and southwards, P5, EC5.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Liotia*.

□ Genus *Cyclostrema* **MARRYAT, 1818**

Type species: *Cyclostrema cancellatum* MARRYAT, 1818 (s. d. GRAY, 1847)

(= *Cyclostrema* GRAY, 1840 *nom. nud.*; *Pseudoliotina* COSSMANN, 1925)

G176 *C. japonicum* SAKURAI & HABE, 1977-a

Hiramaki-hime-katabe

- Type locality: Naze, Amami Ōshima.
- Distribution: recorded only from type locality.

**Notes:** '*Cyclostrema* *trochoide* SARS, 1878 (type locality: North Sea) was recorded from the Izu islands (OKUTANI, 1968); the present authors have been unable to confirm distribution of this species in Japan.

□ Genus *Dentarene* **IREDALE, 1929-a**

Type species: *Dentarene sarcina* IREDALE, 1929 (o. d.)

G177 *D. sarcina* IREDALE, 1929-a

(= *Delphinula crenata* KIENER, 1839 *non* SOWERBY, 1833)

Suki-hime-katabe

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia.



- Habitat: subtidal, coarse sand and stones.

G178 *D. loculosa* (GOULD, 1859-c)

(= *Liotina cycloma* TOMLIN, 1918)

Haguruma-hime-katabe

- Type locality: 'Loo Choo' (Okinawa).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Liotia*.

□ Genus *Pterarene* SAKURAI & HABE, 1977

Type species: *Pterarene sakashitai* SAKURAI & HABE, 1977 (o. d.)

G179 *P. sakashitai* SAKURAI & HABE, 1977

Kazaguruma-hime-katabe

- Type locality: Naze, Amami Ōshima.
- Distribution: recorded only from type locality.

□ Genus *Munditia* FINLAY, 1927

Type species: *Liotina tryphenensis* POWELL, 1926 (o. d.)

G180 *M. daedala* (A. ADAMS, 1863-c)

Kobito-hime-katabe (= Mijin-hime-katabe)

- Type locality: 'Gotto (Gotō islands, off western Kyūshū) 48 fms' and 'O-sima' (Kii-Ōshima, Wakayama prefecture).
- Distribution: Kii peninsula (Cape Shio; Tanabe bay), western Kyūshū (Gotō islands).
- Habitat: 10-100 m., coarse sand and stones.
- Original genus: *Liotia*.

□ Genus *Pondorbis* BARTSCH, 1915-a

Type species: *Pondorbis alfredensis* BARTSCH, 1915 (o. d.)

G181 *P. rotella* ŌYAMA, 1953

Kuruma-shitadami

- Type locality: Hachijō island (Izu islands).
- Distribution: Izu islands and southwards, P11, P6-P5, Amami islands.
- Habitat: intertidal, sandy mud.

G182 *P. japonicus* ANDŌ & HABE, 1980

Mijin-itokake-shitadame

- Type locality: Takeno village, Kinoshiki district, Hyōgo prefecture, central Honshū (Japan Sea).
- Distribution: Suruga bay and southwards, P11, Ogasawara islands (Chichijima FUKUDA, 1993), P6-P5, Japan Sea (J2-J1), Okinawa islands (Yaebishi, Miyako id.)
- Habitat: intertidal, sand.

□ Genus *Lodderia* TATE, 1899

Type species: *Liotia lodderae* PETTERD, 1884 (o. d.) (= *Cyclostremalla* TATE, 1898 non BUSH, 1897)

G183 *L. virginiae* (JOUSSEAU, 1872)

Otome-kabuto-shitadami

- Type locality: Madagascar.

- Distribution: Okinawa (KURODA, 1960), 'Pacific side, 26°-34° N.' (KURODA & HABE, 1952-a); eastern Africa.
- Original genus: *Cyclostrema*.

**Notes:** placement of this species within this genus is provisional; further study is necessary.

□ Genus *Cithna* A. ADAMS, 1863-e

Type species: *Cithna globosa* A. Adams, 1863

G185 *C. globosa* A. ADAMS, 1863

Adamuzu-shitadami

- Type locality: 'Seto-Uchi; Harima-nada' (eastern Seto inland sea).
- Distribution: 'Pacific side, 34° N.' (KURODA & HABE, 1952-a).

G186 *C. spirata* A. ADAMS, 1863-e

Type locality: 'Seto-uchi; Idsuma nada (Izumi-nada, southern Ōsaka bay).

- Distribution: Seto inland sea, 'Pacific side, 34° N.' (KURODA & HABE, 1952-a).

G187 *C. margaritifera* (WATSON, 1880 in 1879-83)

Shinkai-adamuzu-shitadami

- Type locality: 'Challenger' sta. 246, mid-Pacific east of Japan: 36° 10' N., 178° 00' E., 2050 fms., grey ooze.
- Distribution: recorded only from type locality.
- Original genus: *Lacuna* (*Hela*).

Subfamily ANGARIINAE THIELE, 1921

(Refs.: Poppe & Gotō, 1993)

□ Genus *Angaria* RÖDING, 1798

Type species: *Turbo delphinus* LINNAEUS, 1758 (s. d. FISCHER, 1875)

(= *Delphinula* LAMARCK, 1804; *Delphinulus* MONTFORT, 1810; *Praxidica* RAFINESQUE, 1815; *Scalator* GISTL, 1848; *Angarus* GRAY, 1857)

G188 *A. delphinus delphinus* (LINNAEUS, 1758)

(= *Turbo distortus* LINNAEUS, 1758; *Delphinula laciniata* LAMARCK, 1822 in 1815-22; *Delphinula aculeata* REEVE, 1843; *D. atrata* REEVE, 1843; *D. incisa* REEVE, 1843; *D. coronata* A. ADAMS, 1850; *D. euracantha* A. ADAMS, 1850; *D. martinii* A. ADAMS, 1854)

- Type locality: 'in *O. Asiatico*', restricted to 'Philippines' (POPPE & GOTŌ, 1993-b).
- Distribution: southern Ryūkyū islands to northern Australia, Andaman Sea, New Caledonia, Fiji (POPPE & GOTŌ, 1993-b).
- Habitat: intertidal to 10 m., in algae on rocks.
- Original genus: *Turbo*.

G189 *A. delphinus formosa* (REEVE, 1843-a)

Somewake-katabe

- Type locality: Capul & Ticao islands, Philippines.
- Distribution: Amami islands and southwards, ECP3-ECP2; Taiwan, Philippines.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Delphinula*.

G190 *A. neglecta* POPPE & GOTŌ, 1993-b

Katabe-gai

- Type locality: Wakayama prefecture, central Honshū.
- Distribution: Izu islands and southwards, P6-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2.
- Habitat: intertidal to 20 m., on rocks.

G191 *A. nodosa* (REEVE, 1843 in 1843-65)

Hiramaki-katabe

- Type locality: 'Isle of Capul, Philippines (on the reefs at low water)'.
- Distribution: Amami islands and southwards, ECP3-ECP2; Taiwan, Philippines.
- Habitat: intertidal to 20 m., on rocks.
- Original genus: *Delphinula*.

G192 *A. rugosa* (KIENER, 1873 in 1834-80)

Beni-katabe

- Type locality: Sri Lanka.
- Distribution: Kii peninsula and southwards, western Kyūshū, ECP4-ECP2, P2; Indian Ocean.
- Habitat: intertidal to 30 m., on rocks.
- Original genus: *Delphinula*.

G193 *A. sphaerula* (KIENER, 1873 in 1834-80)

Kinano-katabe

- Type locality: Philippines.
- Distribution: Amami islands and southwards, ECP3-ECP2; Taiwan, Philippines.
- Habitat: intertidal to 30 m. on rocks.
- Original genus: *Delphinula*.

G194 *A. vicdani* KOSUGE, 1980-a

Shōjō-katabe (= Dan-katabe)

- Type locality: Davao, Mindanao, Philippines.
- Distribution: Okinawa and southwards, ECP2; Taiwan, Philippines.
- Habitat: 10-100 m. on rocks.

Subfamily COLLONINAE COSSMANN, 1916

(= HOMALOPOMATINAE KEEN, 1960;

BOTHROPOMATINAE THIELE, 1924)

□ Genus *Homalopoma* CARPENTER, 1864

Type species: *Turbo sanguineus* LINNAEUS, 1758

(= *Leptonyx* CARPENTER, 1864 non SWAINSON, 1833)

G195 *H. nocturnum* (GOULD, 1861 in 1859-61)

(= *Collonia rubra* DUNKER, 1882; *Leptothyra rubra laevicostata* PILSBRY, 1901)

Sanshō-gai (= Kurayami-zanshō; Yabu-zanshō; Yami-

zanshō; Tasogare-zanshō)

- Type locality: 'Simoda' (Shimoda, Izu peninsula, central Honshū).

• Distribution: southwestern Hokkaidō and southwards, P10-P5, Japan Sea (Sado island, J3-J1), EC5; Korea.

• Habitat: intertidal to 60 m., coarse sand and stones.

• Original genus: *Turbo*.

G196 *H. incarnatum* (PILSBRY, 1903-b)

Chigusa-zanshō (= Sanshō-chigusa)

- Type locality: Kumi-hama, Tango peninsula (Kyōto prefecture, Japan sea coast of central Honshū).

• Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Sado island, J3-J1), EC5.

• Habitat: intertidal to 60 m., rubble.

• Original genus: *Gibbula*.

G197 *H. amussitatum* (GOULD, 1861 in 1859-61)

(= *Collonia purpurescens* DUNKER, 1882; *Trochus (Gibbula) corallinus* E. A. SMITH, 1875)

Ezo-zanshō

- Type locality: '?' (Shimoda, Japan)' (JOHNSON, 1964) (Shimoda, Izu peninsula, central Honshū).

• Distribution: off Chōshi (Chiba prefecture, central Honshū) and northwards, P7-P10, Japan Sea (northern Niigata prefecture, J3-J5), Hokkaidō; Kuril islands, Korea.

• Habitat: intertidal to 300 m., coarse sand and stones.

• Original genus: *Turbo*.

G198 *H. tosaensis* (HABE, 1953-g)

Nakayama-zanshō

- Type locality: Tosa bay, southern Shikoku.

• Distribution: Tosa bay, southern Kyūshū (southwest off Makurazaki), East China Sea.

• Habitat: 100-200 m., coarse sand and stones bottom, on wood & debris.

• Original genus: *Leptothyra (Homalopoma)*.

G199 *H. sangarensis* (SCHRENCK, 1862 in 1862-63)

Yama-zanshō

- Type locality: Asamushi, Aomori prefecture, northern Honshū.

• Distribution: Fukushima prefecture and northwards, Iwate prefecture (Ōtsuchi bay TSUCHIDA, 1990), Hokkaidō, P8-P10, Japan Sea (Oga peninsula, J4-J5); southeastern Korea.

• Habitat: intertidal on seaweed (*Phyllospadix iwatensis* etc) on rocks or gravel.

• Original genus: *Turbo*.

G200 *H. laevigatum* (SOWERBY III, 1914-c)

Migaki-zanshō

- Type locality: 'Noto, Hizen, Japan' (Nagasaki prefecture, western Kyūshū).

• Distribution: off Kōchi prefecture, off western Kyūshū, East China Sea.

- Habitat: 50-200 m., on wood & debris.
- Original genus: *Leptothyra*.

G201 *H. granuliferum* NOMURA & HATAI, 1940

Wani-kawa-zanshō

- Type locality: off Kyūrokujima (island, Aomori prefecture, northern Honshū, Japan Sea).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (Aomori prefecture, J4-J1), EC5, East China Sea.
- Habitat: 50-300 m., coarse sand and stones.

G202 *H. eoa* AZUMA, 1972-b

(= *H. striatum* SUZUKI, 1972-a)

Akebono-sanshō (= Beni-hida-sanshō)

- Type locality: South China Sea, ± 200 fms., on coral.
- Distribution: off Izu islands; off northeastern Taiwan, South China Sea.
- Habitat: 300-400 m., on coral.

G203 *H. shisuiense* (MAKIYAMA, 1927)

Shisui-sanshō

- Type locality: Inba Bed, Shisui, Chiba prefecture, central Honshū (fossil).
- Distribution: off Chōshi (Chiba prefecture, central Honshū).
- Original genus: *Leptothyra*.

G204 *H. decolorum* CHIBA, 1983-b

Iro-ase-sanshō

- Type locality: Hirota bay, Rikuzen-takada, Iwate prefecture; 5-20 m., fine sandy mud.
- Distribution: recorded only from type locality.

G205 *H. maculata* GOLIKOV & GULBIN, 1978

- Type locality: off Ekarma island, Kuril islands; 20 m., rocks, by R. V. 'Krylatka'.
- Distribution: Kuril islands.

G206 *H. umbilicata* GOLIKOV & GULBIN, 1978

- Type locality: off Urup, Kuril islands; 15 m., by R. V. 'Krylatka'.
- Distribution: Kuril islands.

□ Genus *Phanerolepida* DALL, 1907

Type species: *Turbo transenna* WATSON, 1879 (o. d.)

G207 *P. transenna* (WATSON, 1879 in 1879-83)

Kinuji-same-zanshō

- Type locality: 'Challenger' sta. 201, Philippines: 7° 03' N., 121° 55' E., 102 fms., stones & gravel.
- Distribution: Izu islands (off Izu-Ōshima, 620-720 m. OKUTANI, 1966), Sagami bay (550-1020 m. OKUTANI, 1964-b; 1966; 1968), Enshū-nada, Kumano-nada, Kii peninsula (TSUCHIDA, 1985-b), off Kōchi prefecture (southern Shikoku), off Tanegashima & Yakushima (993-1031 m. TSUCHIDA, 1993); Philippines.

- Habitat: 200-1100 m., coarse sand and stones; mud.
- Original genus: *Turbo*.

□ Genus *Thermocollonia* OKUTANI & FUJIKURA, 1990

Type species: *Thermocollonia jamsteci* OKUTANI & FUJIKURA, 1990 (mt.)

G208 *T. jamsteci* OKUTANI & FUJIKURA, 1990

- Type locality: Minami Ensei Knoll, Okinawa trough: 28° 24.34' N., 127° 30.0' E., 700 m.
- Distribution: recorded only from type locality.

□ Genus *Leptothyra* PEASE, 1869

Type species: *Leptothyra costata* PEASE, 1869 (o. d.) (= *Petropoma* GABB, 1877)

G209 *L. rubricincta* (MIGHELS, 1845)

(= *Turbo multilineata* GARRETT, 1857; *Collonia multistriata* PEASE sensu SOWERBY, 1886)

Beni-tsubu-sanshō

- Type locality: Oahu, Hawaii.
- Distribution: Ogasawara islands (Chichijima, Hahajima FUKUDA, 1993), Wakayama prefecture (Susami EKAWA, 1990-a), Nansei islands (Amami-Ōshima; Okino-Erabu-jima; Takarajima; Kuroshima YUKITA, 1991); Hawaii.
- Original genus: *Turbo*.

□ Genus *Collonista* IREDALE, 1918

Type species: *Collonia picta* PEASE, 1868 (o. d.)

G210 *C. costulosa* (SOWERBY II, 1886 in 1842-87)

(= *Turbo laeta* MONTROUZIER, 1863 non PHILIPPI, 1849)

Murasaki-sanshō-sugai

- Type locality: 'New Caledonia, New Hebrides, etc.'
- Distribution: Amami islands and southwards, ECP3-ECP2; Taiwan, Philippines, New Caledonia.
- Habitat: intertidal on rubble.
- Original genus: *Turbo*.

G211 *C. glareosa* (GOULD, 1861 in 1859-61)

(= *Collonia granulosa* PEASE, 1868)

Kodama-sanshō-sugai

- Type locality: Okinawa island, Amami Ōshima and Kikaishima (Amami islands); 'under surf-washed stones'.
- Distribution: Ogasawara islands, Kii peninsula and southwards, western Kyūshū, P5, EC5; Cheju is (Korea)
- Habitat: intertidal on rubble.
- Original genus: *Monilea*.

G212 *C. amakusaensis* HABE, 1960-b

Shiratama-sanshō-sugai

- Type locality: Tomioka bay, Amakusa, Kyūshū.
- Distribution: Kii peninsula and southwards, western Kyūshū, P5, EC5; Cheju is (Korea).

- Habitat: intertidal on rubble.

□ Genus *Neocollonia* KURODA & HABE, 1952-a

Type species: *Liotia pilula* DUNKER, 1860 (o. d.)

G213 *N. pilula pilula* (DUNKER, 1860)

(= *Cynisca japonica* A. ADAMS, 1861-c; *Monilea inepta* GOULD, 1861; *Minolia rotundata* SOWERBY, 1894)

Sanshō-sugai

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: Bōsō peninsula, P7-P5, P11 to southern Ogasawara islands, Japan Sea (Sado island, J3-J1), ECP4-ECP2; China.
- Habitat: intertidal to 30 m., rubble.
- Original genus: *Liotia*.

G214 *N. pilula rosa* (PILSBRY, 1904-b)

(= *Collonia rosea* PILSBRY *sensu* KURODA *et al.*, 1971)

Bara-sanshō-sugai (= Bara-zanshō)

- Type locality: Tanabe (Kii peninsula).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Sado island, J3-J1), EC5.
- Habitat: intertidal to 30 m., on rubble.
- Original genus: *Collonia*.

Subfamily TURBININAE RAFINESQUE, 1815

□ Genus *Turbo* LINNAEUS, 1758

Type species: *Turbo petholatus* LINNAEUS, 1758 (s. d. MONTFORT, 1810)

(= *Olearia* HERRMANNSEN, 1847; *Laeviturbo* COSSMANN, 1918; *Bothropoma* THIELE, 1924; *Amphiboliturbo* MAGNE, 1940)

Subgenus *Turbo s. str.*

G215 *T. (T.) petholatus* LINNAEUS, 1758

(= *T. variabilis* REEVE, 1842)

Ryūten

- Type locality: 'ad Barbados' (incorrect).
- Distribution: Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; Taiwan, Philippines, tropical western Pacific.
- Habitat: intertidal to 30 m. on coral.

G216 *T. (T.) reevei* PHILIPPI, 1847-d

Tatsumaki-sazae

- Type locality: Philippines.
- Distribution: Izu islands and southwards, P6-P5, western Japan Sea (northern Yamaguchi prefecture SUGIMURA & HOSAKA, 1993), EC5, ECP4-ECP2, Ogasawara islands; tropical western Pacific.
- Habitat: intertidal to 30 m., rocks.

G217 *T. (T.) marmoratus* LINNAEUS, 1758

(= *T. olearius* LINNAEUS, 1758; *T. regenfussi* DESHAYES in DESHAYES & MILNE-EDWARDS,

1843)

Yako-gai

- Type locality: 'in O. Asia ad Zeylonam' (Sri Lanka).
- Distribution: Tanegashima & Yakushima and southwards, ECP4-ECP2; Taiwan, Philippines, tropical western Pacific.
- Habitat: 10-30 m., on rocks.

Subgenus *Callopoma* GRAY, 1850

Type species: *Turbo fluctuosus* WOOD, 1828

G218 *T. (C.) excellens* SOWERBY III, 1914-c

Nishiki-sazae

- Type locality: off Nagashima, eastern Kii peninsula (Mie prefecture, central Honshū).
- Distribution: Izu peninsula and southwards, western Kyūshū, Ogasawara islands, EC5, ECP4-ECP2.
- Habitat: intertidal to 30 m., on rocks.

**Note:** placed by Kira (1954: second reprinting) in subgenus *Callopomella*. This is possibly an error for *Callopoma* GRAY, 1850; no description was published to accompany this group name, and it is here treated as a *nomen nudum*.

Subgenus *Marmarostoma* SWAINSON, 1829

Type species: *Turbo chrysostomus* LINNAEUS, 1758 (= *Senectus* SWAINSON, 1840)

G219 *T. (M.) chrysostomus* LINNAEUS, 1758

Kinguchi-sazae

- Type locality: 'in O. Asiatico' (Asian seas).
- Distribution: Ogasawara islands and southwards, Okinawa, ECP2; Taiwan, Philippines, tropical Pacific.
- Habitat: intertidal to 30 m., on rocks.

G220 *T. (M.) sparverius* GMELIN, 1791

(= *T. crassus* WOOD, 1828 *sensu* KURODA, 1941)

Taiwan-sazae

- Type locality: 'in India'.
- Distribution: Yaeyama islands (Yonaguni island KUBO & KAWAGUCHI, 1991) and southwards; Taiwan, southwestern Pacific.
- Habitat: intertidal to 5 m., on rocks.

G221 *T. (M.) setosus* GMELIN, 1791

(= *T. artensis* MONTROUZIER, 1860 *sensu* OKADA & FUJITA, 1933)

Maru-sazae

- Type locality: 'in India'.
- Distribution: Ogasawara islands and southwards, Okinawa, ECP2; Taiwan, tropical Pacific.
- Habitat: intertidal to 5 m. seaward on coral reefs.

G222 *T. (M.) argyrostomus* LINNAEUS, 1758

(= *T. margaritaceus* LINNAEUS, 1758; *T. princeps* PHILIPPI, 1846; *T. carduus* FISCHER in KIENER, 1873 in 1834-80)

Chōsen-sazae

- Type locality: 'in *M. Indico*'.
- Distribution: Ogasawara islands and southwards, Tanegashima & Yakushima, ECP4-ECP2; Philippines, Australia, western Pacific.
- Habitat: intertidal to 30 m., on rocks.

**Notes:** Hime-kinguchi-sazae *Turbo radiatus* GMELIN, 1791 (type locality: 'in mari rubro' - Red Sea) was provisionally recorded from the Ogasawara islands (NAMIE, 1905: 225, no. 139) but the present authors have been unable to confirm distribution of this species in Japan.

**G223 *T. (M.) brunneus* RÖDING, 1798**

(= *T. squamosa* RÖDING, 1798; *T. intercostalis* MENKE, 1829; *T. disjunctus* ANTON, 1838; *T. ticaonicus* REEVE, 1842; *T. concinnus* PHILIPPI, 1846; *T. elegans* PHILIPPI, 1846; *T. (Marmorostoma) articulatus* REEVE sensu KURODA, 1941)

Kesho-sazae (= *Ö-koshitaka-sazae*)

- Type locality: none designated.
- Distribution: Okinawa and southwards, ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to 20 m., on rocks.

**G224 *T. (M.) stenogyrus* FISCHER, 1873 in KIENER, 1834-80**

(= *T. parvulus* PHILIPPI, 1849 non HALL, 1845)

Koshitaka-sazae (= Iro-sazae)

- Type locality: Philippines.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2; southwestern Pacific.
- Habitat: intertidal to 30 m., on rocks.

**Subgenus *Batillus* SCHUMACHER, 1817**

Type species: *Turbo cornutus* LIGHTFOOT, 1786

(= *Angarina* BAYLE, 1878; *Delphinulopsis* WRIGHT, 1878 non LAUBE, 1870)

**G225 *T. (B.) cornutus* LIGHTFOOT, 1786**

(= *T. japonicus* REEVE, 1848)

Sazae (= Debeso-sazae)

- Type locality: none designated. Species thought endemic to Japan.
- Distribution: Ibaraki prefecture and southwards, Shakotan peninsula (Hokkaidō), P7-P5, J4-J1, EC5, southern Kyūshū; Korea.
- Habitat: intertidal to 40 m. on rocks.

**Subgenus *Lunella* RÖDING, 1798**

Type species: *Turbo versicolor* GMELIN, 1791 (s. d.

FISCHER, 1873; = *T. cinereus* BORN, 1778)

(= *Ocana* H. ADAMS, 1862)

**G226 *T. (L.) cinereus* (BORN, 1778)**

(= *Turbo versicolor* GMELIN, 1791; *T. mespilus*

GMELIN, 1791; *T. picta* RÖDING, 1798; *T. lugubris* REEVE, 1848; *T. porcatus* REEVE, 1848; *T. porphyrites sensu* IWAKAWA, 1905; *T. (Lunella) porphyrites sensu* S. HIRASE, 1934)

*Ö-beso-sugai*

- Type locality: none designated.
- Distribution: Ogasawara islands and southwards, Amami islands, ECP3-ECP2; tropical Pacific.
- Habitat: intertidal on rubble.
- Original genus: *Turbo*.

**G227 *T. (L.) coronatus coronatus* (GMELIN, 1791)**

(= *Turbo coronatus granulatus* GMELIN, 1791)

Kangiku

- Type locality: 'in freto Malaccensi' (Malacca strait).
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2; Indo-Pacific.
- Habitat: intertidal to 5 m., on rubble.
- Original genus: *Turbo*.

**G228 *T. (L.) coronatus coreensis* (RÉCLUZ, 1853)**

(= *T. coronatus sensu* IWAKAWA, 1905; *T. coronatus sensu* OKADA & FUJITA, 1933)

Sugai (= Chōsen-sugai; Karakumo-gai)

- Type locality: Korea.
- Distribution: southern Hokkaidō and southwards, Oga peninsula, northern Honshū to southern Kyūshū, P10-P5, J3-J1, EC5; Korea, Shangtung peninsula (China).
- Habitat: intertidal on rubble in inner bays.
- Original genus: *Turbo*.

**□ Genus *Astralium* LINK, 1807 in 1806-08**

Type species: *Turbo calcar* LINNAEUS, 1758 (s. d. FISCHER, 1873)

(= *Calcar* MONTFORT, 1810; *Cyclocantha* SWAINSON, 1840; *Stella* HERRMANNSEN, 1849; *Pagocalcar* IREDALE, 1937-a; *Rugastella* IREDALE, 1937-a; *Micrastrea* COTTON, 1939)

Subgenus *Astralium s. str.*

**G229 *A. (A.) calcar calcar* (LINNAEUS, 1758)**

(= *Turbo aculeatus* GMELIN, 1791; *T. helacinus* GMELIN, 1791; *T. nicobaricus* RÖDING, 1798; *Astralium deplanatum* LINK, 1807; *Calcar sporio* MONTFORT, 1810; *Astralium asperatus* DELESSERT, 1841; *A. planorbis* PILSBRY, 1888)

Haguruma-ura-uzu

- Type locality: 'ad Amboinam' (Ambon island, Indonesia).
- Distribution: southern Okinawa islands and southwards, ECP2, P2; Philippines, tropical Pacific.
- Habitat: intertidal to 20 m., on rocks.
- Original genus: *Turbo*.

**G230 *A. (A.) calcar laciniatum* (GOULD, 1849 in 1846-50)**

Kurui-ura-uzu

- Type locality: Manila, Philippines.
- Distribution: Amami islands and southwards, ECP3, ECP2, P2; Philippines, tropical Pacific, New Caledonia (GOULD, 1849).
- Habitat: intertidal to 20 m., on rocks.
- Original genus: *Turbo*.

G231 *A. (A.) haematragum* (MENKE, 1829)

Ura-uzu-gai

- Type locality: northern Australia.
- Distribution: Bōsō peninsula and southwards, northern Honshū to southern Kyūshū, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5; southern Korea, Indo-western Pacific.
- Habitat: intertidal to 20 m., on rocks.
- Original genus: *Trochus*.

G232 *A. (A.) heimbürgi* (DUNKER, 1882)

Kasa-ura-uzu

- Type locality: 'in mari Japoniae mediterraneo' (Seto inland sea).
- Distribution: Izu peninsula and southwards, P6-P5, EC5, ECP4-ECP2.
- Habitat: intertidal to 20 m., on rocks.
- Original genus: *Uvanilla*.

G233 *A. (A.) lochoensis* (MCNEIL, 1960)

Okinawa-ura-uzu

- Type locality: Naha, Okinawa (Limestone bed, fossil).
- Distribution: Okinawa; Philippines (Cebu island).
- Original genus: *Astraea*.

G234 *A. (A.) okamotoi* KURODA & HABE in HABE, 1961-a

Okamoto-uzu

- Type locality: Shirahama, Wakayama prefecture, central Honshū.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, Kyūshū and southwards to Tanegashima & Yakushima, ECP4.
- Habitat: intertidal to 20 m., on rocks.

Subgenus *Distillifer* IREDALE, 1937-a

Type species: *Distillifer wallisi* IREDALE, 1937 (o. d.)

G235 *A. (D.) rhodostoma* (LAMARCK, 1822 in 1815-22)

(= *Trochus petrosus* MARTYN *sensu* KURODA, 1928; *Astraea rhodostoma wallisii sensu* KURODA & HABE, 1952-a)

Ō-ura-uzu-gai

- Type locality: none designated.
- Distribution: Tanegashima & Yakushima and southwards, Danjo islands, EC5, East China Sea; western Pacific.
- Habitat: intertidal to 30 m., on rocks.

□ Genus *Pseudastraliu* SCHEPMAN, 1908 in 1908-13

Type species: *Astraliu (Pseudastraliu) abyssorum* SCHEPMAN, 1908 (o. d.; = *Turbo henicus* WATSON, 1879)

G236 *P. henicus* (WATSON, 1879 in 1879-83)

(= *Astraliu (Pseudastraliu) abyssorum* SCHEPMAN, 1908 in 1908-13; *P. henicus gloriosum* KURODA & HABE in KIRA, 1954)

Azami-gai

- Type locality: 'Challenger' sta.173, Matuka, Fiji: 19° 10' S., 179° 40' E., 315 fms.
- Distribution: Enshū-nada and southwards, P6-P5, EC5, ECP4-ECP2; Indo-Pacific to Fiji islands.
- Habitat: 200-400 m., sandy mud.
- Original genus: *Turbo (Calcar)*.

□ Genus *Bolma* RISSO, 1826

Type species: *Turbo rugosus* LINNAEUS, 1767 (o. d.) (= *Ōbolma* SACCO, 1896; *Incilaster* FINLAY, 1927)  
Subgenus *Galeoastraea* KURODA & HABE in HABE, 1958-h

G237 *B. (G.) millegranosa* KURODA & HABE in HABE, 1958-h

Kansu-gai

- Type locality: southern Shikoku (off Kōchi prefecture).
- Distribution: Kii peninsula and southwards, P5, EC5, East China Sea, P2; Philippines, northern Australia.
- Habitat: 100-300 m., on rubble.

G238 *B. (G.) guttata* (A. ADAMS, 1864-f)

Kin-uchi-kansu

- Type locality: 'Tatiyama' (Tateyama, southern Bōsō peninsula, central Honshū).
- Distribution: Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986) and southwards, Izu islands, off Kōchi prefecture, off western Kyūshū.
- Habitat: 100-250 m., on rubble.
- Original genus: *Modelia*.

G239 *B. (G.) persica* (DALL, 1907-c)

Tenjiku-kansu

- Type locality: USFC sta. 4936, off Kagoshima Bay (southern Kyūshū).
- Distribution: Kii peninsula and southwards, Izu islands, P5, EC5, P2; Philippines.
- Habitat: 60-200 m., rocks.
- Original genus: *Astraea*.

G240 *B. (G.) asteriola* (DALL, 1925)

Toge-kansu

- Type locality: 'Albatross' sta. 4924, Colnet strait (Tsushima strait), Sea of Japan.
- Distribution: off southern Kyūshū to Tanegashima &

Yakushima.

- Habitat: 200-300 m., rocks.
- Original genus: *Turbo*.

G241 *B. (G.) tamikoe tamikoe* (SHIKAMA, 1973)

Tamiko-kansu

- Type locality: off Uotsurijima (Senkaku islands).
- Distribution: off Izu islands, Torishima, Tosa bay, Okinawa, East China Sea, South China Sea; Philippines, Australia, Indonesia.
- Habitat: 150-250 m., rocks.
- Original genus: *Galeoastrea* (as ssp. of *G. tayloriana*).

G242 *B. (G.) tamikoe shikamai* HABE, 1978

Samehada-kansu (= Samehada-sazae)

- Type locality: Wakayama prefecture, central Honshū.
- Distribution: off Izu peninsula, Kii peninsula, P5, EC5, East China Sea; northern Australia.
- Habitat: 200-300 m., coarse sand and stones.

G243 *B. (G.) kiharai* KOSUGE, 1986-a

Kihara-kansu

- Type locality: Ogasawara islands, between Chichijima & Hahajima; ± 200 m.
- Distribution: recorded only from type locality.

Subgenus *Harisazaea* HABE, 1958-h

Type species: *Trochus modesta* REEVE, 1843 (o. d.)

G244 *B. (H.) modesta* (REEVE, 1843-c)

Hari-sazae

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), ECP4-ECP2; Korea, East China Sea, China, Taiwan.
- Habitat: 20-100 m., rocks.
- Original genus: *Trochus*.

G245 *B. (H.) girgyllus* (REEVE, 1861 in 1843-65)

Kaminari-sazae

- Type locality: China.
- Distribution: Izu peninsula and southwards, P6-P5, EC5, P2, East China Sea; Korea, China, Philippines, South China Sea, Australia, Indonesia.
- Habitat: 50-200 m., rocks.
- Original genus: *Trochus*.

□ Genus *Senobolma* OKUTANI, 1964-c

Type species: *Senobolma venusta* OKUTANI, 1964 (mt.)

G246 *S. venusta* OKUTANI, 1964-c

Ebisu-kansu

- Type locality: Zenisu bank, off Kōzu island (Izu islands); 140-200 m.
- Distribution: off Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986), Izu islands, Sagami bay.
- Habitat: 80-200 m., gravel.

G247 *S. exotica* OKUTANI, 1969-a

Kawari-kansu

- Type locality: south of Cape Shio (Kii peninsula, Wakayama prefecture, central Honshū): 26° 46.0' N., 135° 22.5' E., 435 m.
- Distribution: recorded only from type locality.

□ Genus *Okinawastraea* HABE & OKUTANI, 1981-a

Type species: *Okinawastraea nakamineae* HABE & OKUTANI, 1981 (mt.)

G248 *O. nakamineae* HABE & OKUTANI, 1981-a

Sango-ura-uzu

- Type locality: Kushi, Nago district, Okinawa island; subtidal on coral reef.
- Distribution: recorded only from type locality.

□ Genus *Guildfordia* GRAY, 1850

Type species: *Trochus triumphans* PHILIPPI, 1841 (s. d. FISCHER, 1873)

G249 *G. triumphans* (PHILIPPI, 1841-b)

Rinbō-gai

- Type locality: Java, Indonesia.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, East China Sea, P2; Korea, Philippines, Indonesia, Australia, western Pacific.
- Habitat: 100-300 m., coarse sand and stones or shell bottom.
- Original genus: *Trochus*.

G250 *G. yoka* JOUSSEAUME, 1888

Hari-naga-rinbō

- Type locality: Japan.
- Distribution: Bōsō peninsula and southwards, Enshū-nada, western Kyūshū, P5, East China Sea; Philippines.
- Habitat: 200-500 m., sandy mud.

□ Genus *Pomaulax* GRAY, 1850

Type species: *Trochus japonicus* DUNKER, 1844 (s. d. FISCHER, 1873)

G251 *P. japonicus* (DUNKER, 1844 in PHILIPPI, 1842-51)

Hira-sazae (= Ukishima-katabe)

- Type locality: Japan.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P6, Japan Sea (Oga peninsula, Sado island, J3-J1); Cheju and Kal islands (Korea)
- Habitat: subtidal to 100 m., rocks.
- Original genus: *Trochus*.

Subfamily **TRICOLIINAE** WOODRING, 1928

(Refs.: Robertson, 1985; 1997)

□ Genus *Tricolia* RISSO, 1826

Type species: *Turbo pullus* LINNAEUS, 1758 (s. d.)

GRAY, 1847)

( = *Eudora* LEACH in GRAY, 1852 non PÉRON & LESUEUR, 1810; *Chromotis* H. & A. ADAMS, 1863; *Eucosmia* CARPENTER, 1864 non STEPHANUS, 1831; *Tricoliella* MONTEROSATO, 1884; *Steganomphalus* HARRIS & BURROWS, 1891; *Eulithidium* PILSBRY, 1898; *Hiloa* PILSBRY, 1917; *Eutricolia* KURODA & HABE, 1952-a; *Usatricolia* HABE, 1956; *Eutricolia* NORDSIECK, 1975; *Tricolietta* NORDSIECK, 1975)

G252 *T. variabilis* (PEASE, 1860-b)

( = *Eutropia virgo* ANGAS, 1867; *Phasianella megastoma* PILSBRY, 1895; *P. oligomphala* PILSBRY, 1895; *P. molokaiensis* PILSBRY, 1918; *P. variabilis kahoolawensis* PILSBRY, 1918; *P. thaanumi* PILSBRY, 1918; *P. bryani* PILSBRY, 1918; *P. micra* PILSBRY MS *sensu* KURODA, 1933; *P. gregoria* LASERON, 1955; *P. ambigua* NUTTALL *sensu* JAY, 1939 *nom. nud.*)

Beni-bai ( = Koshitaka-beni-bai; Mijin-beni-bai)

- Type locality: Hawaii.
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Sado island, J3-J1), EC5, ECP4-ECP2, P11 to southern Ogasawara islands; Korea, Philippines, Hawaii, Tuamotos, East Africa, Australia.
- Habitat: intertidal to 50 m., on rocks among seaweed.
- Original genus: *Phasianella*.

G253 *T. tristis* (PILSBRY, 1903-b)

Ko-murasaki-bai ( = Mizuji-sarasabai; Ko-murasaki-beni-bai)

- Type locality: 'Rishiri, Kitami' (Rishiri island, northwestern Hokkaidō).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and northwards, P8-P10, Japan Sea (Yamagata prefecture, J4-J5), Hokkaidō.
- Habitat: intertidal to 20 m., on rocks among seaweed.
- Original genus: *Phasianella*.

**Notes:** apparently endemic to Japan (ROBERTSON, 1985).

Subfamily PHASIANELLINAE SWAINSON, 1840

□ Genus *Phasianella* LAMARCK, 1804

Type species: *Buccinum australe* GMELIN, 1791 (ICZN pending)

( = *Phasianus* MONTFORT, 1810 non LINNAEUS, 1758; *Bolina* RAFINESQUE, 1815 *nom. nud.*; *Orthopnoea* GISTL, 1847; *Mimelenchus* IREDALE, 1924)

G254 *P. solida* (BORN, 1780)

( = *P. variegata* LAMARCK, 1822 in 1815-22; *Eutropia modesta* GOULD, 1861; *P. modesta gouldi* PILSBRY, 1895)

Sarasa-bai

- Type locality: none designated.
- Distribution: Ogasawara islands and southwards, Bōsō

peninsula, northern Honshū to southern Kyūshū, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, P11, northern Ogasawara islands; Korea, Indo-western Pacific.

- Habitat: intertidal to low water, on seaweed.
- Original genus: *Phasianus*.

Subfamily GABRIELONINAE HICKMAN & MCLEAN, 1990

(Refs.: Hasegawa, 1997)

□ Genus *Gabrielona* IREDALE, 1917

Type species: *Phasianella nepeanensis* GATLIFF & GABRIEL, 1908 (o. d.)

(Refs.: Robertson, 1973)

G255 *G. pisinna* ROBERTSON, 1973

Keshi-tsubu-bai

- Type locality: Récif Ricaudy, New Caledonia; 0-3 ft., among weed.
- Distribution: Okinawa (Kerama islands) and Amami Ōshima (HASEGAWA, 1997-b); New Caledonia and Mauritius (ROBERTSON, 1973).
- Habitat: intertidal to 15 m., on seaweeds.

Family TROCHIDAE RAFINESQUE, 1815

Subfamily TEGULINAE KURODA *et al.*, 1971

□ Genus *Chlorostoma* SWAINSON, 1840

Type species: *Trochus argyrostomus* GMELIN, 1791 (s. d. HERRMANNSEN, 1846)

G256 *C. argyrostoma argyrostoma* (GMELIN, 1791)

Yamataka-kubo-gai

- Type locality: 'in Oceano australi' (Southern Ocean).
- Distribution: western Kyūshū; China, Taiwan.
- Habitat: intertidal to low water, coarse gravel.
- Original genus: *Trochus*.

G257 *C. argyrostoma rugatum* GOULD, 1861 in 1859-61

Shiwa-kubo-gai

- Type locality: Hakodate (Hokkaidō) and Shimoda.
- Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay TSUCHIDA, 1990), and northwards, P9-P10, OP, Kuril islands.
- Habitat: intertidal to 20 m., coarse gravel.

G258 *C. argyrostoma sublaevis* PILSBRY, 1904-b

Ezo-kubo-gai

- Type locality: Kamoito and Afun, Teshio district, northwestern Hokkaidō.
- Distribution: northern Hokkaidō and northwards, P10, J5, OP, Kuril islands; northeastern Korea (Japan Sea).
- Habitat: intertidal to 20 m., coarse gravel.

G259 *C. lischkei* TAPPARONE-CANEFRI, 1874

( = *C. argyrostoma basilirata* PILSBRY, 1901)

Kubo-gai

- Type locality: Yokohama (see note).



• Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea, southern China.

• Habitat: intertidal to low water, coarse gravel.

**Note:** the type locality was designated Nagasaki by KURODA, HABE & ŌYAMA (1971), but Tapparone-Canefri (1874, p. 64) specifically refers to a specimen figured by Lischke from Yokohama as the type of this species.

**G260 *C. turbinatum* A. ADAMS, 1853**

(= *C. umbilicata* LISCHKE *sensu* IWAKAWA, 1919; *Tegula* (*Chlorostoma*) *argyrostoma umbilicata sensu* S. HIRASE, 1934)

Heso-aki-kubo-gai

• Type locality: none designated.

• Distribution: southwestern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea.

• Habitat: intertidal to low water, gravel and coarse gravel.

**G261 *C. xanthostigma* A. ADAMS, 1853-b**

(= *Trochus nigricolor* DUNKER, 1860; *Chlorostoma nigricolor lischkei* PILSBRY, 1889)

Kuma-no-ko-gai (Kusa-iro-kuma-no-ko-gai)

• Type locality: none designated.

• Distribution: Fukushima prefecture and southwards, P8-P5, Japan Sea (Noto peninsula, J2-J1), EC5; Korea, Taiwan, southern China.

• Habitat: offshore, low water on gravel and rubble.

□ Genus ***Omphalius* PHILIPPI, 1847**

Type species: *Trochus rusticus* GMELIN, 1791 (s. d. HERRMANNSEN, 1847)

(= *Neomphalius* FISCHER, 1885)

**G262 *O. rusticus rusticus* (GMELIN, 1791)**

Koshitaka-gangara

• Type locality: 'in Sina' (China).

• Distribution: northwestern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J5-J1), EC5, Seto inland sea; Korea, southern China.

• Habitat: intertidal to low water in sheltered bays, rubble and gravel.

• Original genus: *Trochus*.

**G263 *O. rusticus colliculus* (SOWERBY III, 1913-a)**

Hira-gangara

• Type locality: 'Hidako, Yesso, Japan' (Hidaka, Hokkaidō).

• Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay TSUCHIDA, 1990), Hokkaidō and northwards, P10, OP, J5; Primoriye region (Japan Sea coast of Russia), Sakhalin.

• Habitat: intertidal on rubble.

• Original genus: *Chlorostoma*.

**G264 *O. pfeifferi pfeifferi* (PHILIPPI, 1846)**

(= *Chlorostoma achates* GOULD, 1861; *Trochus nordmanni* SCHRENCK, 1862)

Bateira

• Type locality: none designated.

• Distribution: Pacific coast from Aomori prefecture southwards to southeastern Kyūshū.

• Habitat: on exposed coasts; intertidal to 20 m., coarse gravel.

• Original genus: *Trochus*.

**G265 *O. pfeifferi carpenteri* (DUNKER, 1882)**

Ō-koshitaka-gangara (= Ō-gangara)

• Type locality: 'mari Japonico propria esse videtur' (apparently from the Japan Sea).

• Distribution: Japan Sea (Oga peninsula and southwards, J3-J1), western Kyūshū; Korea.

• Habitat: intertidal to low water, coarse gravel.

• Original genus: *Chlorostoma*.

**G266 *O. nigerrimus* (GMELIN, 1791)**

Hime-kubo-gai

• Type locality: 'in Sina' (China).

• Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Yamagata prefecture, J3-J1), EC5; Korea, southern China.

• Habitat: on exposed coasts; intertidal to low water, rocks and rubble.

• Original genus: *Trochus*.

Subfamily **CHILODONTINAE WENZ, 1938**

□ Genus ***Granata* COTTON, 1957**

Type species: *Stomatella imbricata* LAMARCK, 1816 (o. d.)

**G267 *G. lyrata* (PILSBRY, 1890 in 1888-96)**

Ashiya-gai

• Type locality: Japan.

• Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2; Korea (Cheju island).

• Habitat: intertidal to 20 m., rocks and gravel.

• Original genus: *Stomatella*.

**G268 *G. sulcifera* LAMARCK, 1822 in 1815-22**

Ō-ashiya-gai

• Type locality: 'les mers de la Nouvelle-Hollande'.

• Distribution: ECP3-ECP2; Taiwan.

• Habitat: subtidal, rubble.

• Original genus: *Stomatella*.

**G269 *G. japonica* (A. ADAMS, 1850-c)**

• Type locality: Japan

• Distribution: unknown.

• Original genus: *Stomatella*.

□ Genus ***Hybochelus* PILSBRY, 1890 in 1888-96**

Type species: *Stomatella cancellata* KRAUSS, 1848 (o. d.)

G270 *H. cancellatus orientalis* (PILSBRY, 1904-b)

Heso-aki-ashiya-ebisu

- Type locality: Kashiwajima, Kōchi prefecture, southwestern Shikoku.
- Distribution: Kii peninsula and southwards, western Kyūshū, P5, EC5, ECP4-ECP2, P2; Taiwan.
- Habitat: intertidal on rubble.
- Original genus: *Euchelus*.

G271 *H. sagamiensis* KURODA & HABE in KURODA *et al.*, 1971

Sagami-ashiya-ebisu

- Type locality: 4km off Jōgashima, Sagami bay, central Honshū; 200 m.
- Distribution: Sagami bay, western Seto inland sea (TSUCHIDA, HORI & MITOKI, 1991), East China Sea.
- Habitat: 100-300 m., sand & shell bottom.

G272 *H. roseola* G. & H. NEVILL, 1869

Ashiya-ebisu

- Type locality: 'S. Prov. Ceylon' (southern Sri Lanka).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia.
- Habitat: intertidal on rubble.
- Original genus: *Tallorbis*.

□ Genus *Danilia* BRUSINA, 1865

Type species: *Monodonta tinei* CALCARA, 1839  
(= *Craspedotus* PHILIPPI, 1847 non SCHÖNHERR, 1844; *Heliciella* O. G. COSTA, 1861)

G273 *D. kuroshio* OKUTANI, 1968

Kuroshio-biku-shitadami

- Type locality: 'Sōyō-Marū' sta. B3, off Hachijō island, Izu islands: 33° 09.7' N., 140° 00' E., 525 m.
- Distribution: recorded only from type locality.

□ Genus *Euchelus* PHILIPPI, 1847-a

Type species: *Trochus quadricarinatus* HOLTEN, 1802 (s. d. HERRMANNSEN, 1847)  
(= *Aradasia* GRAY, 1850; *Tallorbis* G. & H. NEVILL, 1869; *Huttonia* KIRK, 1882 non PICKARD & CAMBRIDGE, 1880)

G274 *E. quadricarinatus* (HOLTEN, 1802)

(= *Trochus tricarinatus* LAMARCK, 1818 in 1815-22; *E. asper sensu* KURODA & HABE, 1952-a)

Arasuji-sanshōgai-modoki

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, Indo-Pacific.
- Habitat: intertidal on rubble.
- Original genus: *Trochus*.

G275 *E. atratus* (GMELIN, 1791)

(= *Trochus canaliculatus* LAMARCK, 1818 in 1815-22)

Kuro-sanshōgai-modoki

- Type locality: 'in mari atlantico, americano, australi'.
- Distribution: Kii peninsula and southwards, EC5, P5, ECP4-ECP2; Indo-Pacific.
- Habitat: intertidal on rubble.
- Original genus: *Nerita*.

G276 *E. rubra* (A. ADAMS, 1853-b)

(= *E. rubra brunneus* PILSBRY, 1901; *E. hachijoensis* PILSBRY, 1904)

Kaba-sanshōgai-modoki (= Beni-sanshōgai-modoki; Hime-sanshōgai-modoki)

- Type locality: China.
- Distribution: Fukushima prefecture and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5; Cheju island (Korea), China, Indonesia.
- Habitat: subtidal on rubble.
- Original genus: *Monodonta*.

**Notes:** according to Trew (1992), this could be the same as *E. ruber* A. ADAMS, 1864; both names are apparently applied to this species.

G277 *E. lischkei* PILSBRY, 1904-b

Sanshōgai-modoki

- Type locality: Hachijō island (Izu group).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2.
- Habitat: intertidal to low water, on rubble.

G278 *E. bitoi* NOMURA & HATAI, 1940

Bito-sanshōgai-modoki

- Type locality: Kyuroku island (northern Japan Sea).
- Distribution: recorded only from type locality.

G279 *E. gemmatus* (GOULD, 1845-a)

Takara-sanshōgai-modoki

- Type locality: Hawaii.
- Distribution: southern Japan (KAY, 1977); Hawaii, Marshall islands, New Caledonia, Seychelles.
- Original genus: *Trochus* (*Monodonta*).

□ Genus *Herpetopoma* PILSBRY, 1890 in 1888-96

Type species: *Euchelus scabriusculus* A. ADAMS & ANGAS, 1867 (o. d.)

G280 *H. instricta* (GOULD, 1849 in 1846-50)

(= *Monodonta alveolata* A. ADAMS, 1853; *Euchelus bourcierei* CROSSE, 1863)

Kago-sanshōgai-modoki

- Type locality: 'Pacific islands'.
- Distribution: Kii peninsula and southwards, western Kyūshū, P5, EC5, ECP4-ECP2, P2, P11, Ogasawara islands (Chichijima FUKUDA, 1993); Philippines, Australia, tropical western Pacific.
- Habitat: intertidal to 140 m., on coral reefs.

- Original genus: *Trochus* (*Monodonta*).

G281 *H. clathrata* (A. ADAMS, 1853-b)

(= *Monodonta foveolata* A. ADAMS, 1853-b; *Trochus scrobiculatus* SOUVERBIE, 1866; *Euchelus angulatus* PEASE, 1868; *E. favosus* MELVILL & STANDEN, 1896)

Hina-kago-sanshōgai-modoki

- Type locality: Guidulman, Bohol, Philippines; 60 fms., 'rocky ground'.
- Distribution: Kii peninsula and southwards, Ogasawara islands, P5, EC5, ECP4-ECP2, P2; Philippines, tropical western Pacific.
- Habitat: subtidal on rubble.
- Original genus: *Monodonta*.

G282 *H. pauperculus* (LISCHKE, 1872 in 1868-73)

Ibo-sanshōgai-modoki

- Type locality: 'Bucht von Jedo, und zwar von Jokohama bis hinaus zur Insel Eno-Sima' (Tōkyō bay, specifically from Yokohama to Enoshima).
- Distribution: Fukushima prefecture and southwards, P8-P5, Japan Sea (Noto peninsula, J2-J1), EC5; Melanesia to Samoa.
- Habitat: intertidal to low water, stones & rocks.
- Original genus: *Trochus*.

□ Genus *Tibatrochus* NOMURA, 1940

Type species: *Tibatrochus husaensis* NOMURA, 1940 (o. d.); = *T. incertus* SCHEPMAN, 1908)

G283 *T. incertus* (SCHEPMAN, 1908 in 1908-13)

(= *T. husaensis* NOMURA, 1940)

Nana-ebisu

- Type locality: 'Siboga' sta. 59, 'western entrance, Saman-strait. 390 m. Coarse coral sand' (off western Timor, Indonesia).
- Distribution: off Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986) and southwards, P7-P5, EC5; Indonesia.
- Habitat: 200-300 m., coarse sand and stones.
- Original genus: '*Priotrochus*'?

□ Genus *Turcica* H & A. ADAMS, 1854 in 1853-58

Type species: *Turcica monilifera* H. & A. ADAMS, 1854 (o. d.)

(= *Ptychostylus* GABB, 1860)

G284 *T. coreensis* PEASE, 1860-d

(= *T. imperialis* A. ADAMS, 1864; *Trochus adamsianus* SCHRENCK, 1867)

Makiage-ebisu

- Type locality: Korea strait.
- Distribution: southwestern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4, East China Sea; southern Korea (Cheju and Ch'ungma islands).

- Habitat: 50-200m, sandy mud.

□ Genus *Perrinia* H. & A. ADAMS, 1854 in 1853-58

Type species: *Monodonta angulifera* A. ADAMS, 1853 (s. d. PILSBRY, 1889)

G285 *P. concinna* (A. ADAMS, 1864-f)

Hime-makiage-ebisu

- Type locality: 'Uraga' (Uraga, eastern Miura peninsula, mouth of Tōkyō bay).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5.
- Habitat: 30-300 m., sand.
- Original genus: *Turcica*.

G286 *P. nigromaculata* SCHEPMAN, 1908 in 1908-13

Kurofu-hime-makiage-ebisu

- Type locality: 'Siboga' sta. 43, 'Pulu Sarassa, Postillion-islands. Up to 36 m. Coral' (north of Sumbawa island, Indonesia).
- Distribution: Izu islands (Zenuis), off Okinawa (Kerama islands TSUCHIDA & KUROZUMI, 1992); Indonesia.

□ Genus *Agathodonta* COSSMANN, 1918

Type species: *Trochus dentigerus* D'ORBIGNY, 1843 (o. d.)

G287 *A. nortoni* MCLEAN, 1984

Futaha-sanshōgai-modoki

- Type locality: off Baltazar island, Marinduque, Philippines; 296-320 m., sand.
- Distribution: west off Bōsō peninsula, Izu islands (TSUCHIDA & KUROZUMI, 1986); Philippines, Indonesia.

□ Genus *Synaptocochlea* PILSBRY, 1890

Type species: *Stomatella montrouzieri* SOUVERBIE, 1863 (o. d.)

G288 *S. pulchella* (A. ADAMS, 1850-c)

Chigo-ashiya

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Gena*.

G289 *S. stellata* (SOUVERBIE, 1863 in SOUVERBIE & MONTROUZIER, 1859-79)

Yozora-chigo-ashiya

- Type locality: New Caledonia.
- Distribution: Amami islands and southwards, ECP3-ECP2; Indo-Pacific.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Stomatella*.

G290 *S. concinna* (GOULD, 1845-a)

Kumori-chigo-ashiya

- Type locality: Hawaii.
- Distribution: Ogasawara islands, Amami Ōshima (Tsuchihama), Okinawa; Hawaii.
- Habitat: intertidal on sand & coarse sand and stones.
- Original genus: *Stomatella*.

Subfamily **CALLIOTROPINAE HICKMAN & MCLEAN, 1990**

□ Genus ***Lischkeia* FISCHER in KIENER & FISCHER, 1880**

Type species: *Trochus moniliferus* LAMARCK, 1816 (o. d.)

Subgenus ***Lischkeia* s. str.**

G291 ***L. (L.) alwiniae* (LISCHKE, 1871 in 1868-73)**  
(= *Trochus moniliferus* LAMARCK, 1816 non 1804)  
Hari-ebisu

- Type locality: 'ad insulam Kiusiu' (Kyūshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, East China Sea.
- Habitat: 100-300 m., sandy mud.
- Original genus: *Trochus*.

G292 ***L. (L.) undosa* KURODA & KAWAMURA, 1956**  
Aranami-hari-ebisu

- Type locality: Tosa bay, off Kōchi prefecture (southern Shikoku).
- Distribution: Kōchi prefecture and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea.
- Habitat: 100-200 m., fine sand.

Subgenus ***Adamsenida* HABE, 1952-e**

Type species: *Enida gemmulosa* A. ADAMS, 1860 (o. d.)  
(= *Solariellopsis* SCHEPMAN, 1908 non GREGORIO, 1886)

G293 ***L. (A.) galea* (HABE, 1953-d)**

Kabuto-hari-ebisu (= Kabuto-shitadami; Kabuto-sanshōgai-modoki)

- Type locality: Tosa bay, off Kōchi prefecture (southern Shikoku).
- Distribution: Suruga bay, Tosa bay.
- Habitat: 150-300 m., sand.
- Original genus: *Adamsenida*.

G294 ***L. (A.) gemmulosa* (A. ADAMS, 1860)**

Kogata-hari-ebisu

- Type locality: off Mishima (Japan Sea), 63 fms.
- Distribution: Kii peninsula and southwards, Japan Sea (Mishima, J1), EC5, P5.
- Habitat: 100-300 m., sand.
- Original genus: *Enida*.

□ Genus ***Calliotropsis* SEGUENZA, 1903**

Type species: *Trochus otto* PHILIPPI, 1844 (o. d.)

(= *Callotropis* HABE, 1955 *err. pro Callio*-)

Subgenus ***Solaricida* DALL, 1919**

G295 ***C. (S.) infundibulum* (WATSON, 1879 in 1879-83)**  
(= *Solariella hondoensis* DALL, 1919)

Heso-aki-kogane-ebisu

- Type locality: off Marion island, southeastern Africa.
- Distribution: Izu islands (off Bayonnaise rock, 2000-2150 m. OKUTANI, 1964-b; 1966), Kii peninsula (off Cape Shio, 905 fms. DALL, 1919), off southern Kyūshū, 1000-2500m; southern Africa.
- Original genus: *Bembix*.

□ Genus ***Bathybembix* CROSSE, 1892**

Type species: *Bembix aeola* WATSON, 1879 (o. d.)  
(= *Bembix* WATSON, 1879 in 1879-83 non KONINCK, 1844)

G296 ***B. aeola* (WATSON, 1879 in 1879-83)**

Kogane-ebisu (Kusa-iro-ginebisu)

- Type locality: 'Challenger' sta. 232, 'Mosima' (off Enoshima, Sagami bay, central Honshū): 35° 11' N., 139° 28' E., 345 fms, sandy mud.
- Distribution: off Iwate prefecture (northern Honshū) and southwards, Kashima-nada, Bōsō peninsula (TSUCHIDA & KUROZUMI, 1995-b), Sagami bay (OKUTANI, 1964-b; 1966; 1968) Kumano-nada, southern Shikoku, Kyūshū (off Miyazaki prefecture, 779-803 m., sandy mud TSUCHIDA, 1993).
- Original genus: *Bembix*.

G297 ***B. abyssorum* (E. A. SMITH, 1891)**

Ryūgū-kogane-ebisu

- Type locality: 'Challenger' sta. 241, north Pacific east of Japan, 2300 fms.
- Distribution: off eastern Honshū (4207 m., by 'Sōyō-Maru').
- Original genus: *Lischkeia*.

□ Genus ***Ginebis* Is. TAKI & ŌTSUKA, 1943**

Type species: *Trochus argenteonitens* LISCHKE, 1872 (o. d.)

G298 ***G. argenteonitens argenteonitens* (LISCHKE, 1872 in 1868-73)**

Gin-ebisu

- Type locality: 'Bucht von Jedo und zwar von Yokohama bis hinaus zur Insel Eno-Sima' (Tōkyō bay, specifically from Yokohama to Enoshima).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, EC5, central East China Sea.
- Habitat: 50-400 m., sand.
- Original genus: *Trochus*.

G299 ***G. argenteonitens hirasei* Is. TAKI & ŌTSUKA, 1943**

Hirase-gin-ebisu

- Type locality: Kashima-nada off Ibaraki prefecture, central Honshū.
- Distribution: Kashima-nada and northwards to Iwate prefecture; off western Kyūshū.
- Habitat: 50-200 m., sand.

G300 *G. convexiuscula convexiuscula* (YOKOYAMA, 1920)

(= *Turricula crumpi yokoyamai* ŌTSUKA, 1943)  
Yokoyama-gin-ebisu

- Type locality: Kamakura, Kanagawa prefecture, near Tōkyō (fossil).
- Distribution: Tosa bay off Kōchi prefecture (southern Shikoku).
- Habitat: 300 m., sandy mud.
- Original genus: *Bembix*.

G301 *G. convexiuscula tosana* SHIKAMA, 1962-a  
Fukure-gin-ebisu

- Type locality: 'off Tosa' (Tosa bay, southern Shikoku).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, EC5, ECP4, East China Sea.
- Habitat: 200-300 m., sandy mud.

G302 *G. crumpii* (PILSBRY, 1893-a)

Iga-gin-ebisu

- Type locality: Japan.
- Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay TSUCHIDA, 1990) and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4, East China Sea.
- Habitat: 50-400 m., fine sand.
- Original genus: *Calliostoma*.

G303 *G. japonicus* (DALL, 1925)

Arare-gin-ebisu

- Type locality: 'Albatross' sta. 5093, Uraga strait (mouth of Tōkyō bay), and sta. 5088 off Hondo (Honshū), Japan.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, Japan Sea (Tsushima strait, J1), EC5, ECP4, East China Sea.
- Habitat: 150-800 m., fine sand.
- Original genus: *Turricula*.

G304 *G. kirai* SAKURAI, 1983-c

Hotei-gin-ebisu

- Type locality: off Kōchi prefecture, southern Shikoku.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) to southern Shikoku.
- Habitat: 150-500 m., sand.

G305 *G. nakamigawai* SAKURAI, 1983-c

Daikoku-gin-ebisu

- Type locality: off Kōchi prefecture, southern Shikoku.

- Distribution: recorded only from type locality.

Subfamily MARGARITINAE STOLICZKA, 1868

□ Genus *Margarites* GRAY, 1847

Type species: *Trochus helycinus* FABRICIUS, 1780 (o. d.) (= *Margarita* LEACH in ROSS, 1819 non 1814; *Eumargarita* FISCHER, 1885; *Valvatella* MELVILL, 1897 non GRAY, 1857)

Subgenus *Margarites* s. str.

G306 *M. (M.) helycinus pilsbryi* (KURODA & HABE, 1952-a)

(= *Phorcus borealis* PILSBRY, 1905 non PHILIPPI, 1846; *M. helycinus tenuistriata* GALKIN, 1955)

Ezo-shitadami

- Type locality: Kushiro, eastern Hokkaidō.
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, P9-P10, OP, Hokkaidō, Kuril islands.
- Habitat: subtidal on sand among seaweed *Phyllospadix iwatensis*.

G307 *M. (M.) schantaricus* MIDDENDORFF, 1849

(= *Trochus ochotensis* MIDDENDORFF in PHILIPPI, 1851 in 1846-55; *M. kamchaticus* DALL, 1919)

Hai-iro-shitadami

- Type locality: Shantar islands, western Okhotsk Sea.
- Distribution: northern Hokkaidō and northwards, P10, OP, Okhotsk Sea, Kuril islands; Sakhalin, Primoriye region (Japan Sea coast of Russia), Kamchatka peninsula.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Trochus*.

G308 *M. (M.) striata cinerea* (COUTHOUY, 1839)

Suji-ebisu

- Type locality: Massachusetts, eastern USA.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and northwards, P8-P10, northern Japan Sea (J4-J5), OP, Kuril islands, Okhotsk Sea.
- Habitat: intertidal to 2440 m.
- Original genus: *Trochus*.

G309 *M. (M.) margaritiferus* OKUTANI, 1964-b

- Type locality: 'Sōyō-Maru' sta. T29, off Hatsushima islet, Sagami bay, central Honshū: 35° 05' N., 139° 29.3' E., 710-770 m.
- Distribution: central Honshū (Kashima-nada, 870 m; Sagami bay, 620-1030 m. OKUTANI, 1964-b; 1966), southwestern Kyūshū (off Kushikino).

G310 *M. (M.) hypolispus* DALL, 1919-c

Tamamushi-shitadami

- Type locality: Arctic Ocean north of Bering Strait.
- Distribution: Hokkaidō (KURODA & KINOSHITA, 1951); Bering Sea.

G311 *M. (M.) lenticula* GOULD, 1861 in 1859-61

- Type locality: 'seashore, Loo Choo' (Okinawa).
- Distribution: recorded only from type locality.

G312 *M. (M.) groenlandica kurilensis* GOLIKOV & GULBIN, 1978

- Type locality: off Simushir, Kuril islands; 10 m., rocky bottom, by R. V. 'Krylatka'.
- Distribution: middle and northern Kuril islands (KAFANOV, pers. comm).

G313 *M. (M.) glabra* GOLIKOV & GULBIN, 1977

- Type locality: off Chirpoy island, Kuril islands; 20 m., rocky bottom, by R. V. 'Krylatka'.
- Distribution: Kuril islands (Shikotan and northwards KAFANOV, pers. comm).

G314 *M. (M.) picturata* GOLIKOV, 1976

- Type locality: Posyet bay, Japan Sea coast of Russia near Vladivostok.
- Distribution: northern Japan Sea (Posyet bay and Kunashir, Kuril islands KAFANOV, pers. comm).

G315N *M. (M.) vahlii angulata* GALKIN, 1955

- Type locality: none designated.
- Distribution: southern Kuril islands; Japan Sea coast of Russia (Peter the Great bay), northern Sakhalin, Tatar and Bering straits (GOLIKOV & GULBIN, 1978).

G316 *M. (M.) shinkai* OKUTANI, TSUCHIDA & FUJIKURA, 1992

Shinkai-ezo-shitadami

- Type locality: off Hatsushima islet, Sagami bay, central Honshū: 35° 00' N., 139° 13.5' E., 1110-1200 m.
- Distribution: Sagami bay (1000-1200 m.), Okinawa (Izena Hole, 360-364 m.)

Subgenus *Cantharidoscops* GALKIN, 1955

Type species: *Margarites frigidus* DALL, 1919 (o. d.)

G317 *M. (C.) frigidus* DALL, 1919-c

Koshitaka-hadaka-shitadami

- Type locality: Arctic Ocean, north of Bering strait.
- Distribution: Hokkaidō (off Cape Erimo), Bering Sea, Arctic Ocean.
- Habitat: 50-100 m., sand.

Subgenus *Neomargarites* GOLIKOV & GULBIN, 1978

Type species: *Margarites (Neomargarites) clausa* GOLIKOV & GULBIN, 1978

G318 *M. (N.) clausa* GOLIKOV & GULBIN, 1978

- Type locality: off Simushir, Kuril islands; 15 m., rocky bottom, by R/V 'Krylatka'.
- Distribution: recorded only from type locality.

□ Genus *Pupillaria* DALL, 1909-b

Type species: *Trochus pupillus* GOULD, 1849 (o. d.)

G319 *P. pupilla* (GOULD, 1849 in 1846-50)

Sujimaki-ebisu (= Makisuji-ebisu)

- Type locality: New Zealand.
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, P9-P10, Japan Sea (Sado island, 248-257 m., J3-J5), Hokkaidō, OP, Kuril islands, Okhotsk Sea; Bering Sea, New Zealand.
- Habitat: 40-250 m., sand.
- Original genus: *Trochus*.

□ Genus *Omphalomargarites* HABE & ITŌ, 1965-b

Type species: *Margarites vorticifera* DALL, 1873 (mt.)

G320 *O. vorticifera* (DALL, 1873-a)

Suribachi-shitadami

- Type locality: Iliuliuk harbour, Captains bay, Unalaska, 10-60 fms and Akutan Pass (Alaska).
- Distribution: northern Hokkaidō and northwards P10, OP, northern Japan Sea, Okhotsk Sea; Sakhalin, Bering Sea.
- Habitat: 5-120 m., sandy mud.
- Original genus: *Margarita* (amended to *Margarites*).

G321 *O. sagamiensis* KURODA & HABE in KURODA *et al.*, 1971

Sagami-habutae-shitadami

- Type locality: Sagami bay, central Honshū, central Honshū.
- Distribution: recorded only from type locality.

□ Genus *Gaza* WATSON, 1879 in 1879-83

Type species: *Gaza daedala* WATSON, 1879 (o. d.)

G322 *G. sericata* KURODA in KIRA, 1959-a

Takara-shitadami

- Type locality: central Honshū, below 50 fms.
- Distribution: Izu islands and southwards, Sagami bay, P6-P5, EC5, East China Sea.
- Habitat: 50-300 m., coarse sand and stones.

Subfamily TROCHINAE RAFINESQUE, 1815

□ Genus *Trochus* LINNAEUS, 1758

Type species: *Trochus maculatus* LINNAEUS, 1758 (s. d. IREDALE, 1912)

(= *Polydonta* SCHUMACHER, 1817; *Lamprostoma* SWAINSON, 1840)

Subgenus *Trochus s. str.*

G323 *T. (T.) maculatus maculatus* LINNAEUS, 1758

(= *T. vernus* GMELIN, 1791; *T. tentorium* GMELIN, 1791; *T. grandinatus* RÖDING, 1798; *T. granosus* LAMARCK, 1822 in 1815-22)

Nishiki-uzu

- Type locality: '*O. Americano, Asiatico*'.
- Distribution: Suruga bay and southwards, P6-P5, P11, Ogasawara islands, Japan Sea (J1), EC5, ECP4-ECP2, P2; Philippines, tropical western Pacific.
- Habitat: intertidal to low water, on rocks.

G324 *T. (T.) maculatus verrucosus* GMELIN, 1791

(= *T. (Infundibulum) tubiferus* KIENER *sensu* IWAKAWA, 1919)

Ana-aki-uzu

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, Ogasawara islands, P5, Japan Sea (J1), EC5, ECP4-ECP2; western Pacific.
- Habitat: intertidal to low water, on rocks.

G325 *T. (T.) stellatus* GMELIN, 1791

(= *T. incrassatus* LAMARCK, 1822 in 1815-22)

Murasaki-uzu

- Type locality: 'in India'.
- Distribution: Kii peninsula and southwards, Ogasawara islands, P5, ECP4-ECP2, P2; Philippines, Australia.
- Habitat: intertidal to low water, on rocks.

G326 *T. (T.) histrio* REEVE, 1848 in 1843-65

(= *T. intextus* KIENER, 1850; *T. sandwichensis* SOULEYET, 1852; *T. calcaratus* SOUVERBIE, 1875) Hakusha-uzu

- Type locality: none designated.
- Distribution: Kōchi prefecture (southern Shikoku) and southwards, Ogasawara islands, P5, ECP4-ECP2, P2; Philippines, Australia, Micronesia, Polynesia.
- Habitat: subtidal, rocks.
- Original genus: *Turbo*.

G327 *T. (T.) sacellum sacellum* PHILIPPI, 1855 in 1846-55

Murasaki-ichimonji

- Type locality: none designated.
- Distribution: southern Okinawa and southwards, ECP2, P2; Philippines.
- Habitat: intertidal to low water, rocks.

G328 *T. (T.) sacellum rota* DUNKER, 1860

(= *Polydonta (Infundibulum) gloriosum* GOULD, 1861; *T. (Infundibulum) squarrosus* LAMARCK *sensu* IWAKAWA, 1919)

Uzu-ichimonji

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: Bōsō peninsula and southwards, P11 to southern Ogasawara islands, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2; Korea, Philippines, Indo-Pacific.
- Habitat: intertidal to low water, rocks.

G329 *T. (T.) cumingii* A. ADAMS, 1853-c

(= *T. rubricatus* 'PHILIPPI' *auct. sensu* KURODA & HABE, 1952-a)

Hime-takajiri

- Type locality: Sibonga, Cebu island, Philippines; low

water under stones.

- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines.
- Habitat: intertidal to low water, under rocks.

Subgenus *Infundibulum* MONTFORT, 1810 in 1808-10

(= *Carinidea* SWAINSON, 1840)

G330 *T. (I.) chloromphalus* (A. ADAMS, 1853-c)

Tamamushi-uzu

- Type locality: none designated.
- Distribution: Ogasawara islands (Chichijima FUKUDA, 1993), Okinawa islands and southwards, ECP2, P2.
- Habitat: intertidal to low water, rocks.
- Original genus: *Infundibulum*.

□ Genus *Tectus* MONTFORT, 1810 in 1808-10

Type species: *Trochus mauritanus* GMELIN, 1791 (o. d.) (= *Pyramis* SCHUMACHER, 1817 *non* RÖDING, 1798; *Pyramidea* SWAINSON, 1840; *Rochia* GRAY, 1857)

G331 *Te. pyramis* (BORN, 1778)

(= *Trochus obeliscus* GMELIN, 1791; *Trochus acutus* LAMARCK, 1822 in 1815-22; *Tectus tabidus* REEVE, 1861)

Gin-takahama (= Ina-tsuka-gai)

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P11 to southern Ogasawara islands, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2, P2; tropical Pacific, Australia.
- Habitat: subtidal, on rocks.
- Original genus: *Trochus*.

G332 *Te. triserialis* (LAMARCK, 1822 in 1815-22)

Koshitaka-gin-takahama (= Seitaku-uzu)

- Type locality: none designated.
- Distribution: southern Kyūshū and southwards, ECP4-ECP2, P2; Philippines, tropical Pacific, Australia.
- Habitat: subtidal, on rocks.
- Original genus: *Trochus*.

G333 *Te. fenestratus* (GMELIN, 1791)

Matsukasa-uzu

- Type locality: 'in Oceano indico et australi' (Indian and southern Oceans).
- Distribution: Okinawa and southwards, ECP2, P2; Philippines, central & western Pacific.
- Habitat: intertidal on rocks.
- Original genus: *Trochus*.

G334 *Te. conus conus* (GMELIN, 1791)

(= *Trochus acutangulus* CHEMNITZ *sensu* IWAKAWA, 1919; *Trochus (Rochia) conus hirasei sensu* KURODA, 1928)

Beni-shiritaka (= Beni-takajiri)

- Type locality: 'in India'.
- Distribution: Kii peninsula and southwards, Ogasawara islands, P6, J1, EC5, ECP4-ECP2, P2; Philippines.
- Habitat: subtidal, rocks.
- Original genus: *Trochus*.

G335 *Te. conus hirasei* (PILSBRY, 1904-b)

Hirase-uzu

- Type locality: Tanabe (Wakayama prefecture, Kii peninsula, central Honshū).
- Distribution: Kii peninsula and southwards, P5, EC5.
- Habitat: intertidal to low water, on rocks.
- Original genus: *Trochus*.

G336 *Te. niloticus* (LINNAEUS, 1767)

(= *Trochus flammeus* RÖDING, 1798; *Trochus maximus* KOCH in PHILIPPI, 1844)

Sarasa-batei (= Daruma-sarasa-batei)

- Type locality: none designated.
- Distribution: Ogasawara islands, Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, tropical western Pacific.
- Habitat: subtidal to 10 m., on rocks.
- Original genus: *Trochus*.

□ Genus *Clanculus* MONTFORT, 1810 in 1808-10

Type species: *Trochus pharaonius* LINNAEUS, 1758 (o. d.)

(= *Otavia* RISSO, 1826; *Fragella* SWAINSON, 1840)

Subgenus *Clanculus s. str.*

G337 *C. (C.) margaritarius* (PHILIPPI, 1849-e)

(= *Clanculus unedo* A. ADAMS, 1853-c; *Trochus (Clanculus) gemmulifer sensu* IWAKAWA, 1919; *Trochus (Clanculus) gordonis sensu* YOKOYAMA, 1924)

Natsumomo (= Kogata-natsu-momo; Amami-natsu-momo)

- Type locality: Philippines.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), P11 to southern Ogasawara islands, EC5, ECP4-ECP2, P2; Philippines, southern Korea, tropical western Pacific.
- Habitat: subtidal to 20 m., rocks & rubble.
- Original genus: *Trochus*.

G338 *C. (C.) clanguloides* (WOOD, 1828 in 1818-28)

Usu-iro-natsu-momo

- Type locality: none designated.
- Distribution: southern Kyūshū and southwards, ECP4-ECP2, P2; Philippines, tropical Pacific, Australia.
- Habitat: subtidal to 30 m., rocks.
- Original genus: *Trochus*.

G339 *C. (C.) stigmatarius* A. ADAMS, 1853-c

Benifu-natsu-momo

- Type locality: Corregidor island Manila bay, Philippines; 9 fms., coarse sand.

- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, tropical Pacific, Australia.
- Habitat: subtidal to 30 m., rocks & rubble.

G340 *C. (C.) gemmulifer gemmulifer* PILSBRY, 1901-a

Beni-ebisu (= Beni-natsu-momo)

- Type locality: Hirado island, Nagasaki prefecture, western Kyūshū.
- Distribution: western Kyūshū; Korea (Taepyon).
- Habitat: subtidal to 30 m., rocks & rubble.

G341 *C. (C.) gemmulifer pallidus* PILSBRY, 1903-b

Shiro-natsu-momo

- Type locality: Kashiwajima, Kōchi prefecture, southern Shikoku.
- Distribution: Kii peninsula and southwards, Ogasawara islands (Chichijima FUKUDA, 1993), P5, EC5.
- Habitat: subtidal to 30 m., rocks & rubble.

Subgenus *Mesoclanculus* IREDALE, 1924

Type species: *Trochus plebejus* PHILIPPI, 1851 (o. d.)

G342 *C. (M.) denticulatus* (GRAY in KING, 1826)

(= *Monodonta lupinus* MENKE, 1843; *Trochus atropurpureus* GOULD, 1849)

Tetsu-iro-natsumomo

- Type locality: western Australia (no specific locality designated).
- Distribution: Tanegashima and southwards, Yakushima, Ogasawara islands, ECP4-ECP2, P2; Philippines, southern China, tropical western Pacific, Australia.
- Habitat: intertidal to 50 m., rocks & rubble.
- Original genus: *Monodonta*.

G343 *C. (M.) microdon* A. ADAMS, 1853-c

(= *C. microdon ater* PILSBRY, 1901)

Kuro-makiage-ebisu (= Kuro-natsu-momo)

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (southern Yamagata prefecture, J3-J1), EC5; Korea (Cheju island).
- Habitat: intertidal to 30 m., rocks & rubble.

Subgenus *Eucheliclanculus* KURODA *et al.*, 1971.

Type species: *Mondonta (Euchelus) bronni* DUNKER, 1860 (o. d.)

G344 *C. (E.) bronni* (DUNKER, 1860)

(= *C. hizenensis* PILSBRY, 1901; *C. hizenensis fraterculus* PILSBRY, 1904)

Ko-maki-age-ebisu (= Fuase-ko-natsu-momo)

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: Bōsō peninsula and southwards, Ogasawara islands (Chichijima FUKUDA, 1993), P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2.



- Habitat: intertidal to 20 m., under rubble.
- Original genus: *Monodonta* (*Euchelus*).

Subgenus *Euclanculus* COTTON & GODFREY, 1934

Type species: *Clanculus leucomphalus* VERCO, 1905

G345 *C. (Eu?) persicus* HABE & SHIKAMA in SHIKAMA & HABE, 1964

Kansu-natsu-momo

- Type locality: off Chōshi (Chiba prefecture, central Honshū).
- Distribution: Chōshi to Kashiwajima (southwestern Shikoku).

□ Genus *Pseudotalopia* HABE, 1961-a

Type species: *Galeomma japonica* A. ADAMS, 1862 (o. d.)

**Notes:** possibly an invalid genus-group name; see HASEGAWA & SAITŌ, 1995: 37.

G346 *P. sakuraii* HABE, 1961-a

Koshitaka-heso-wagoma

- Type locality: off Kōchi prefecture, southern Shikoku; 100-150 m.
- Distribution: Bōsō peninsula and southwards, Tateyama bay (central Honshū TAMURA & OKUTANI, 1989), western Kyūshū, P7-P5, EC5.
- Habitat: 50-200 m., coarse sand and stones.

Subfamily GIBBULINAE STOLICZKA, 1868

(= MONODONTINAE FISCHER, 1880)

□ Genus *Eurytrochus* FISCHER in KIENER & FISCHER, 1880

Type species: *Clanculus danieli* CROSSE, 1862 (s. d. PILSBRY, 1889)

G347 *E. danieli* (CROSSE, 1862-c)

Chibi-kuruma-chigusa

- Type locality: New Caledonia.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, New Caledonia, Australia.
- Habitat: intertidal to low water on rubble.
- Original genus: *Clanculus*.

G348 *E. affinis cognatus* (PILSBRY, 1903-b)

Kuruma-chigusa (= Hime-kuruma-chigusa; Ōyama-kuruma-chigusa)

- Type locality: 'Riukiu' (Okinawa Islands).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, Ogasawara islands.
- Habitat: intertidal to low water on rubble.
- Original genus: *Gibbula*.

□ Genus *Enida* A. ADAMS, 1860-c

Type species: *Enida japonica* A. ADAMS, 1860 (s. d. KOBELT, 1879)

G349 *En. japonica* A. ADAMS, 1860-c

(= *E. speciosa* A. ADAMS, 1860; *Trochus (Gibbula) japonicus* E. A. SMITH, 1875; *Chlorostoma miyatense* YOKOYAMA, 1920)

Haguruma-shitadami

- Type locality: off Mishima, (western Japan Sea); 63 fms.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (off Sado island, J3-J1), EC5; Indonesia.
- Habitat: 50-200 m., sand.

□ Genus *Fossarina* A. ADAMS & ANGAS, 1864-b

Type species: *Fossarina patula* A. ADAMS & ANGAS, 1864 I (o. d.)

(= *Minos* HUTTON, 1884)

G350 *F. picta* A. ADAMS, 1867-a

Chibi-ashiya

- Type locality: 'Tanabe; Kino-O-Sima' (Kii-Ōshima, Kii peninsula, central Honshū); 'on the shore'.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, EC5.
- Habitat: intertidal on rocks, among oysters, barnacles etc.

□ Genus *Monodonta* LAMARCK, 1799

Type species: *Trochus labio* LINNAEUS, 1758 (o. d.)

(= *Monodontes* MONTFORT, 1810; *Labio* OKEN, 1815; *Odontis* SOWERBY, 1825; *Trochidon* SWAINSON, 1840; *Pimpellies* GISTL, 1848)

Subgenus *Monodonta* s. str.

G351 *M. (M.) labio labio* (LINNAEUS, 1758)

(= *Trochus novaezeelandica* RÖDING, 1798; *M. immanis* FISCHER, 1880)

Okinawa-ishidatami

- Type locality: 'in *O. Africano & Asiatico*' (African and Asian seas).
- Distribution: Suruga bay and southwards, P6-P5, ECP4-ECP2, P2; southwestern Korea, tropical western Pacific, Australia.
- Habitat: intertidal, rocks or gravel in bays.
- Original genus: *Trochus*.

G352 *M. (M.) labio confusa* TAPPARONE-CANEFRI, 1874

Ishidatami

- Type locality: Singapore.
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5, Seto inland sea, ECP4-ECP2; southwestern Korea, China.
- Habitat: intertidal, rocks or gravel.

G353 *M. (M.) australis* LAMARCK, 1822 in 1815-22

Kusa-iro-ishidatami

- Type locality: 'les mers de la Nouvelle-Hollande' (Australian seas).
- Distribution: Ogasawara islands (Chichijima; Anijima;

Hahajima FUKUDA, 1993), Okinawa islands; Hawaii, Marianas, Australia.

• Habitat: intertidal on rocks or gravel.

G354 *M. (M.) canalifera* LAMARCK, 1822 in 1815-22  
Hana-datami

• Type locality: 'les mers de la Nouvelle-Hollande' (Australian seas).

• Distribution: Ogasawara islands, ECP3-ECP2; tropical western Pacific.

• Habitat: intertidal on offshore rubble banks.

G355 *M. (M.) viridis* LAMARCK, 1816-b

• Type locality: none designated.

• Distribution: 'Pacific coast to 25° N.' (KURODA & HABE, 1952-a).

Subgenus *Neomonodonta* KURODA *et al.*, 1971.

(= *Melagraphia sensu* KURODA, 1928-c)

Type species: *Trochus neritoides* PHILIPPI, 1849 (o. d.)

G356 *M. (N.) neritoides* (PHILIPPI, 1849 in 1849-50)

Kurozuke-gai

• Type locality: none designated (Belcher collection).

• Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea, southern China.

• Habitat: intertidal on offshore rubble banks.

• Original genus: *Trochus*.

G357 *M. (N.) perplexa perplexa* PILSBRY, 1889

Kubire-kurozuke

• Type locality: 'Japan'.

• Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2; Korea, southern China.

• Habitat: intertidal on rocks and gravel.

G358 *M. (N.) perplexa boninensis* ASAKURA & NISHIMURA, 1987

Ō-kurozuke

• Type locality: Yagiyama, Chichijima (Ogasawara islands).

• Distribution: Ogasawara islands (Chichijima; Anijima; Hahajima; Kita- and Minami-Iōjima FUKUDA, 1993).

• Habitat: intertidal on rocks.

□ Genus *Chrysostoma* SWAINSON, 1840

Type species: *Turbo nicobaricus* 'CHEMNITZ, 1781' (o. d.; non-binominal: = *Helix paradoxa* BORN, 1780)

G359 *C. paradoxum* (BORN, 1780)

Sarasa-dama

• Type locality: Philippines.

• Distribution: Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; Australia, tropical Pacific.

• Habitat: intertidal on gravel.

• Original genus: *Helix*.

□ Genus *Diloma* PHILIPPI, 1842

Type species: *Turbo nigerrimus* GMELIN, 1791 (s. d. HERRMANNSEN, 1847)

Subgenus *Diloma s. str.*

(= *Zediloma* FINLAY, 1927)

G360 *D. (D.) nana* GOULD, 1861 in 1859-61

Hime-kazari-kurozuke

• Type locality: 'Loo Choo' (Okinawa).

• Distribution: Okinawa (KURODA, 1960).

G361 *D. (D.) piperinus* (PHILIPPI, 1849-a)

(= *Gibbula lepida* GOULD, 1861)

Kazari-kurozuke

• Type locality: 'Insulae Sandwich?' (Hawaii).

• Distribution: Amami islands, and southwards, ECP3, ECP2, P2; tropical Pacific.

• Habitat: intertidal, offshore, stones and gravel.

• Original genus: *Trochus* (*Diloma*).

G362 *D. (D.) radula* (PHILIPPI, 1849-a)

Shakato-datami

• Type locality: 'Insulae Sandwich?' (Hawaii?).

• Distribution: Hachijō island and southwards, Amami islands, P6, ECP3-ECP2, P2; Philippines, tropical Pacific.

• Habitat: intertidal, coarse gravel.

• Original genus: *Trochus* (*Diloma*).

Subgenus *Pictodiloma* HABE, 1946-b

Type species: *Trochus suavis* PHILIPPI, 1849 (o. d.)

G363 *D. (P.) suavis* (PHILIPPI, 1849 in 1849-50)

Mekura-gai

• Type locality: none designated (Belcher collection).

• Distribution: Bōsō peninsula and southwards, P7-P5, Hachijō island, Ogasawara islands, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2.

• Habitat: intertidal on offshore rocks and gravel.

• Original genus: *Trochus*.

Subfamily CANTHARIDINAE COTTON, 1959

(= CANTHARINAE *sensu* KURODA *et al.*, 1971)

□ Genus *Cantharidus* MONTFORT, 1810 in 1808-10

Type species: *Trochus iris* GMELIN, 1791 (o. d.; = *Limax opalus* MARTYN, 1784 - ICZN op. 479)

(= *Cantharis* FÉRUSAC, 1821 *non* LINNAEUS, 1758;

*Elenchus* SWAINSON, 1840 *non* CURTIS, 1831;

*Cantharidium* SCHAUFUSS, 1869)

G364 *C. hirasei* PILSBRY, 1901-a

Kaido-chigusa

• Type locality: 'Hirado, Hizen' (Hirado island, Nagasaki prefecture, western Kyūshū).

• Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea.

- Habitat: intertidal among rocks, on seaweed.

G365 *C. japonicus* (A. ADAMS, 1853-b)

(= *Trochus hilaris* LISCHKE, 1871)

Chigusa-gai

- Type locality: 'Japan' (probably Shimoda, Izu peninsula, Honshū) KURODA *et al.*, 1971).
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea.
- Habitat: intertidal to low water among rocks, on seaweed.
- Original genus: *Ziziphinus*.

G366 *C. jessoensis* (SCHRENCK, 1863 in 1862-3)

Ezo-chigusa (= Habuki-chigusa)

- Type locality: 'Jezo' (Hokkaidō).
- Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay TSUCHIDA, 1990) and northwards, P9-P10, Japan Sea (northern Yamaguchi prefecture, J1-J5), OP, Hokkaidō, Kuril islands, Okhotsk Sea; Primoriye region (Japan Sea coast of Russia).
- Habitat: intertidal on seaweed.
- Original genus: *Trochus*.

G367 *C. callichroa* (PHILIPPI, 1849 in 1849-50)

(= *C. callichroa bisbalteatus* PILSBRY, 1901)

Hano-chigusa-gai

- Type locality: none designated (Belcher collection).
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5; southeastern Korea.
- Habitat: intertidal to low water, on seaweed.
- Original genus: *Trochus*.

□ Genus *Iwakawatrochus* KURODA & HABE, 1954-b

Type species: *Gibbula vittata* PILSBRY, 1903 (o. d.)

G368 *I. urbanus* (GOULD, 1861 in 1859-61)

(= *Gibbula eucosmia* PILSBRY, 1895; *G. vittata* PILSBRY, 1903-b)

Iwakawa-chigusa (= Kuchibeni-chigusa; Shimo-furi-chigusa)

- Type locality: 'Kagosima Bay' (Kagoshima bay, southern Kyūshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Sado island, J3-J1), EC5, ECP4-ECP2, P2.
- Habitat: intertidal to low water, among rocks, on seaweed.
- Original genus: *Ziziphinus*.

□ Genus *Komaitrochus* KURODA & Iw. TAKI in KURODA, 1958-a

Type species: *Komaitrochus pulcher* KURODA & TAKI, 1958 (o. d.)

G369 *K. pulcher* KURODA & Iw. TAKI in KURODA, 1958-a

Komai-chigusa

- Type locality: Shirahama (Wakayama prefecture, Kii

peninsula, central Honshū).

- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2.

- Habitat: subtidal on seaweed.

□ Genus *Kanekotrochus* HABE, 1958-h

Type species: *Trochus yokohamensis* BOCK, 1878 (o. d.); = *Ziziphinus infuscatus* GOULD, 1861)

G370 *Ka. infuscatus* (GOULD, 1861 in 1859-61)

(= *Trochus (Thalotia) yokohamensis* BOCK, 1878)

Kaneko-chigusa

- Type locality: 'Kagosima Bay' (Kagoshima bay, southern Kyūshū).
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands (Chichijima FUKUDA, 1993), P7-P5, Japan Sea (Sado island, J3-J1), EC5.
- Habitat: intertidal to 30 m., sand and rubble.
- Original genus: *Ziziphinus*.

G371 *Ka. gilberti* (MONTROUZIER in FISCHER, 1878-a)

Ryūkyū-chigusa (= Okinawa-chigusa)

- Type locality: 'L'île Art' (New Caledonia).
- Distribution: Amami islands and southwards, ECP3, ECP2, P2; Philippines, New Caledonia.
- Habitat: intertidal on seaweed.
- Original genus: *Trochus*.

□ Genus *Thalotia* GRAY, 1847

Type species: *Trochus pictus* WOOD, 1828 (o. d.); = *Monodonta conica* GRAY, 1827)

Subgenus *Thalotia s. str.*

G372 *T. (T.) attenuatus* (JONAS, 1844-b)

(= *Cantharidus elongatus* (WOOD) *sensu* IWAKAWA, 1919; *T. aspera* KURODA & HABE, 1952-a)

Oni-chigusa (= Oni-no-ha)

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Australia.
- Habitat: intertidal to low water on rocks and coral reefs.
- Original genus: *Trochus*.

□ Genus *Alcyna* A. ADAMS, 1860-c

Type species: *Alcyna ocellata* A. ADAMS, 1860 (s. d. PILSBRY, 1888)

G373 *A. ocellata* A. ADAMS, 1860-c

(= *A. lepida* A. ADAMS, 1860-c; *A. rubra* PEASE, 1860; *A. kapiolantae* PILSBRY, 1917; *A. kuhnsi* PILSBRY, 1917; *A. kuhnsi humerosa* PILSBRY, 1917; *A. rubra multicolor* DALL *sensu* MANT, 1923 *nom. nud.*)

Kiba-benibai

- Type locality: Sea of Japan, off 'Talen-sima' (? =

Tobishima, Yamagata prefecture), 25 fms.

- Distribution: Bōsō peninsula and southwards, P7-P5, P11 to southern Ogasawara islands, Japan Sea (off Yamagata prefecture, J3-J1), EC5, ECP4-ECP2; Korea.
- Habitat: subtidal, on seaweed.

Subfamily **STOMATELLINAE GRAY, 1840**

□ Genus *Stomatella* **LAMARCK, 1816-b**

Type species: *Stomatella auricula* LAMARCK, 1816 (s. d. ANTON, 1839)

(= *Phymotis* RAFINESQUE, 1815 *nom. nud.*; *Gena* GRAY, 1842; *Plocamotis* FISCHER, 1885)

G374 *S. auricula* (**LAMARCK, 1816-b**)

(= *S. nigra* QUOY & GAIMARD, 1834; *Gena strigosa* A. ADAMS, 1850; *S. (Gina) impertusa sensu* ABBOTT & DANCE, 1982 *non* BURROW, 1815)

Suzu-hime-awabi

- Type locality: none designated.
- Distribution: 'Pacific coast to 24° N.' (KURODA & HABE, 1952-a); western Pacific, Australia, Red Sea.
- Habitat: intertidal under rocks.

G375 *S. planulata* (**LAMARCK, 1816-b**)

Hirahime-awabi

- Type locality: none designated..
- Distribution: Ogasawara islands and southwards, Kii peninsula, P5, EC5, ECP4-ECP2; Indo-western Pacific.
- Habitat: intertidal to 30 m., among stones and gravel.

G376 *S. impertusa* (**BURROW, 1815**)

(= *Gena varia* A. ADAMS, 1850; *G. lutea* A. ADAMS, 1854; *G. dilecta* GOULD, 1859)

Hime-awabi (= Beni-hime-awabi)

- Type locality: Calapan, Mindoro island, Philippines; on small stones, 9 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP1; Indo-western Pacific.
- Habitat: offshore shoals, 0-30 m., coarse sand and stones.
- Original genus: *Haliotis*.

G377 *S. haliotiformis* **KURODA & HABE in HABE, 1961-d**

Chigo-awabi

- Type locality: Amami Ōshima.
- Distribution: Amami islands and southwards, ECP3-ECP2.
- Habitat: intertidal to 30 m., coarse sand and stones.

G378 *S. lintrricula* (**A. ADAMS, 1850-c**)

Usu-hime-awabi

- Type locality: Mindoro island, Philippines.
- Distribution: Mie prefecture and southwards, P5, ECP4-ECP2, P2; Philippines, western Pacific.
- Habitat: intertidal to 30 m., coarse sand and stones.

• Original genus: *Gena*.

**Note:** the holotype of this species (BMNH 1968131) no longer exists (note in BMNH).

□ Genus *Broderipia* **GRAY, 1847**

Type species: *Scutella rosea* BRODERIP, 1834 (o. d.)

G379 *B. iridescens* (**BRODERIP, 1834-c**)

Hana-zara

- Type locality: 'in Oceano Pacifico (Grimwood's Island)'. (Possibly Morane atoll, Tuamotu archipelago, Grimault island, New Caledonia or Fangatau atoll (a. k. a. Cockburn island) southeast of Mururoa).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2; Indo-Pacific.
- Habitat: intertidal to 50 m., on rocks.

□ Genus *Pseudostomatella* **THIELE, 1921**

Type species: *Stomatella papyracea* 'CHEMNITZ' sensu A. ADAMS (o. d.; = *Turbo papyraceus* GMELIN, 1791)

G380 *P. papyracea* (**GMELIN, 1791**)

Sarasa-ashiya-gama (= Sarasa-ashiya-gai)

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP2; southwestern Pacific.
- Habitat: intertidal to 10 m., rubble.
- Original genus: *Turbo*.

G381 *P. decolorata* (**GOULD, 1848 in 1846-50**)

Iro-ase-ashiya-gama

- Type locality: 'Mangsi island' (Balabac strait, Philippines).
- Distribution: Amami islands and southwards, ECP2; Philippines, central Pacific.
- Habitat: intertidal to 10 m., coarse sand and stones.
- Original genus: *Stomatella*.

□ Genus *Stomatolina* **IREDALE, 1937-a**

Type species: *Stomatella rufescens* GRAY, 1847 (o. d.)

G382 *S. rubra* (**LAMARCK, 1822 in 1815-22**)

Ashiya-gama

- Type locality: 'les mers de l'Inde'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J2-J1), EC5, ECP4-ECP2; Korea, western Pacific.
- Habitat: intertidal to 20 m., on rocks.
- Original genus: *Stomatella*.

G383 *S. sanguinea* (**A. ADAMS, 1850-c**)

Kurenai-ashiya-gama

- Type locality: Indian Ocean.
- Distribution: southern Kyūshū and southwards, ECP4-ECP2; Indo-Pacific.
- Habitat: intertidal to 20 m., on rocks.
- Original genus: *Stomatella*.

G384 *S. angulata* (A. ADAMS, 1850-c)

Shiwa-ashiya-gama

- Type locality: islands of Ticao and Luzon, Philippines; low water, under stones.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2; Philippines, western Pacific.
- Habitat: intertidal to 20 m., rubble.
- Original genus: *Stomatia*.

□ Genus *Stomatia* HELBLING, 1779

Type species: *Stomatia phymotis* HELBLING, 1779 (o. d.) (= *Stomax* MONTFORT, 1810)

Subgenus *Stomatia s. str.*

G385 *St. (St.) phymotis* HELBLING, 1779

(= *S. australis* A. ADAMS, 1850-c)

Furuya-gai

- Type locality: none designated.
- Distribution: Suruga bay and southwards, P6-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2.
- Habitat: intertidal to 20 m., on rocks.

G386 *St. (St.) splendidula* A. ADAMS, 1854 in H. & A. ADAMS, 1853-58

- Type locality: none designated.
- Distribution: 'Pacific side, 0°-?' (KURODA & HABE, 1952-a).

Subgenus *Microtis* A. ADAMS, 1850-c

Type species: *Microtis tuberculata* A. ADAMS, 1850

G387 *St. (M.) heckeliana* CROSSE, 1871-a

Kujike-ashiya-gama

- Type locality: Noumea, New Caledonia.
- Distribution: Ogasawara islands and southwards, ECP4-ECP2; New Caledonia.
- Habitat: intertidal to 30 m., on rocks.

Subfamily CALLIOSTOMATINAE THIELE, 1924

□ Genus *Akoya* HABE, 1961-a

Type species: *Calliostoma akoya* KURODA in IKEBE, 1942 (o. d.)

G388 *A. akoya* (KURODA in IKEBE, 1942)

(= *A. shinayaka* HABE, 1961-a)

Akoya-ebisu (= Yūbi-ebisu; Shinayaka-ebisu)

- Type locality: Okinose (Sagami bay, central Honshū), 500 fms.
- Distribution: Bōsō peninsula and southwards, Sagami bay, Enshū-nada, Shima peninsula (off Cape Daiō), Kii peninsula (off Tanabe; off Kushimoto), off Kōchi prefecture (southern Shikoku).
- Habitat: 150-500 m., sand.
- Original genus: *Calliostoma*.

□ Genus *Calliostoma* SWAINSON, 1840

Type species: *Trochus conulus* LINNAEUS, 1758 (s. d. HERRMANNSEN, 1846)

(= *Conulus* NARDO, 1841 non LESKE, 1778; *Ziziphinus* GRAY, 1840 nom. nud.; *Montagua* GRAY, 1852 non LEACH, 1814; *Stylotrochus* SEGUENZA, 1876 non HÄCKEL, 1862; *Fluxina* DALL, 1881; *Manotrochus* FISCHER, 1885; *Jacinthinus* MONTEROSATO, 1889; *Eucasta* DALL, 1889; *Ampullostrochus* MONTEROSATO, 1890; *Dymares* SCHWENGEL, 1942; *Tristichotrochus* IKEBE, 1942)

Subgenus *Calliostoma s. str.*

G389 *C. (C.) haliarchus* (MELVILL, 1889)

(= *Ziziphinus jucundus* SOWERBY, 1878 non GOULD, 1849; *Calliostoma sowerbyi* PILSBRY, 1889)

Hira-koma

- Type locality: 'ad oras Australiae?' (coasts of Australia?).
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea (Cheju island).
- Habitat: 50-200 m., fine sand.
- Original genus: *Ziziphinus*.

G390 *C. (C.) hayamanum* (KURODA & HABE in KURODA *et al.*, 1971)

Hayama-hira-koma (= Hayama-ebisu)

- Type locality: Sagami bay, central Honshū.
- Distribution: off Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986), Sagami bay and southwards, Enshū-nada, Kumano-nada (off Mie prefecture), off Kōchi prefecture (southern Shikoku).
- Habitat: 50-200 m., fine sand.
- Original genus: *Tristichotrochus*.

G391 *C. (C.) tsuchiya* (KURODA & HABE in KURODA, HABE, & ŌYAMA, 1971)

Tsuchiya-ebisu (= Tsuchiya-hira-koma)

- Type locality: Sagami bay, central Honshū.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, Sagami bay, off eastern Kii peninsula (Cape Kirime).
- Habitat: 40-100 m., coarse sand and stones.
- Original genus: *Tristichotrochus*.

G392 *C. (C.) formosensis* E. A. SMITH, 1907

Taiwan-ebisu

- Type locality: 'south Formosa' (Taiwan).
- Distribution: west off Yakushima (190-210 m., sand), P2; Taiwan, China (Hainan island), South China Sea.
- Habitat: 50-300 m., sand.

G393 *C. (C.) canaliculatus* (SASAO & HABE, 1973)

Maki-mizo-ebisu

- Type locality: off Torishima, Izu islands.

- Distribution: recorded only from type locality.
- Original genus: *Tristichotrochus*.

**G394 *C. (C.) margaritissimus* (HABE & OKUTANI, 1968)**

Shirogane-ebisu (= Kogane-shitadami)

- Type locality: off Midway island, ± 480 m., and 35° 15' N., 171° 50' E., 400-460 m.
- Distribution: off Ogasawara islands; Midway island.
- Habitat: 400-500 m.
- Original genus: *Tristichotrochus*.

**G395 *C. (C.) koma* (SHIKAMA & HABE, 1965)**

Koma-ebisu

- Type locality: Bungo strait, between Shikoku and Kyūshū.
- Distribution: Bungo strait, Tsushima strait and southwards, EC5, East China Sea; Korea (Ullung island), Yellow Sea, Taiwan.
- Habitat: 50-200 m., mud.
- Original genus: *Tristichotrochus*.

**G396 *C. (C.) aculeatum* SOWERBY III, 1912**

(= *Trochus spinigera* YOKOYAMA, 1922)

Toge-ebisu

- Type locality: 'Kii' (Kii peninsula, Wakayama prefecture, Honshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea ; Korea (Cheju island).
- Habitat: 50-100 m., coarse sand and stones.

**G397 *C. (C.) soyoae* IKEBE, 1942**

Heso-aki-toge-ebisu

- Type locality: 'Sōyō-Marū' sta. 298, off Ōsumi peninsula (Kagoshima prefecture, southern Kyūshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2.
- Habitat: 50-100 m., sand.

**G398 *C. (C.) shinagawaensis shinagawaensis* TOKUNAGA, 1906**

Tōdaka-ebisu (= Kasuri-ebisu)

- Type locality: Shinagawa, Tōkyō (fossil).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Sado island, J3-J1), Seto inland sea, EC5; Korea strait.
- Habitat: 20-100 m., coarse sand and stones.

**G399 *C. (C.) shinagawaensis cipangoanum* YOKOYAMA, 1920**

Mukashi-tōdaka-ebisu

- Type locality: Yokosuka, Kanagawa prefecture, near Tōkyō (fossil).
- Distribution: 'Pacific, 26-35° N.; Japan Sea , 37 N.' (ŌYAMA, 1973)

- Habitat: 20-120 m., fine sand.

**G400 *C. (C.) consors* (LISCHKE, 1872 in 1868-73)**

(= *C. hungerfordi* SOWERBY, 1888; *C. sagamianum* YOKOYAMA, 1920; *C. (Tristichotrochus) kiiense* IKEBE, 1942)

Koshitaka-ebisu (= Kii-ebisu; Komagata-ebisu)

- Type locality: 'Bucht von Jedo und zwar von Jokohama bis hinaus zur Insel Eno-Sima' (Tōkyō bay, specifically from Yokohama to Enoshima).
- Distribution: Northern Honshū (Aomori prefecture) and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), Seto inland sea, EC5, ECP4; Korea.
- Habitat: 10-100 m., coarse sand and stones.
- Original genus: *Trochus*.

**Notes:** Nishiki-ebisu is a shell often cited as *C. consors* but which more closely resembles *Calliostoma multiliratum* SOWERBY II, 1875; though widely distributed in Japan, its status is still undetermined.

**G401 *C. (C.) laevibasis* (KURODA & HABE in KURODA et al., 1971)**

Kasuri-ebisu

- Type locality: Sagami bay, central Honshū.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, Sagami bay, Kii peninsula (off Kushimoto).
- Original genus: *Tristichotrochus*.

**G402 *C. (C.) problematicus* (KURODA & HABE in KURODA et al., 1971)**

Niyori-ebisu

- Type locality: Sagami bay, central Honshū.
- Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay TSUCHIDA, 1990), off Chōshi (Chiba prefecture, central Honshū) and southwards, Sagami bay, off Izu peninsula, Kii peninsula.
- Habitat: 50-150 m., sand.
- Original genus: *Tristichotrochus*.

**G403 *C. (C.) takaseanus* OKUTANI, 1972-a**

Seno-ebisu

- Type locality: Takase bank, Izu islands: 34° 27.7' N., 139° 11.1' E., 130 m.
- Distribution: Izu islands, Kii peninsula (off Minabe; off Kii-Ōshima).
- Habitat: 100-200 m., sand.
- Original genus: *Tristichotrochus*.

**G404 *C. (C.) hayashii* SHIKAMA, 1977**

Hayashi-ebisu

- Type locality: Kii peninsula, central Honshū; off Kushimoto, 350 m.
- Distribution: Enshū-nada (off Shizuoka prefecture) and westwards, P6-P5, Kii peninsula, western Kyūshū.

- Habitat: 150-400 m., sand.

G405 *C. (C.) unicum* (DUNKER, 1860)

( = *Calliostoma affinis* DALL, 1872)

Ebisu-gai

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea, China.
- Habitat: intertidal to 150 m., rubble.
- Original genus: *Trochus*.

G406 *C. (C.) iwamotoi* IKEBE, 1942

Iwamoto-ebisu

- Type locality: Kikuna, Yokohama city (fossil).
- Distribution: mouth of Tōkyō bay and westwards, Sagami bay, Kumano-nada (eastern Kii peninsula).
- Habitat: 100-200 m., sand.

G407 *C. (C.) simodense* IKEBE, 1942

Hatsuka-ebisu

- Type locality: Shimoda (Izu peninsula, central Honshū).
- Distribution: Ogasawara islands (Chichijima FUKUDA, 1993), P11, Izu peninsula and southwards, P6-P5, EC5, ECP4-ECP2.
- Habitat: intertidal to 20 m., rubble.

G408 *C. (C.) iwaotakii* (AZUMA, 1961-b)

Taki-ebisu

- Type locality: Tosa bay (southern Shikoku), 80-100 fms.
- Distribution: recorded only from type locality.
- Original genus: *Tristichotrochus*.

G409 *C. (C.) iris* (KURODA & HABE in HABE, 1961-a)

Nana-iro-ebisu

- Type locality: off Cape Ashizuri (Kōchi prefecture, southwestern Shikoku); 160-200 m.
- Distribution: Sagami bay, Enshū-nada, Kii peninsula (off Susami; off Cape Shio), off Kōchi prefecture.
- Habitat: 150-250 m., sand.
- Original genus: *Tristichotrochus*.

G410 *C. (C.) takujii* KOSUGE, 1986-a

Ōsato-ebisu

- Type locality: Ogasawara islands: off Hahajima, ± 200 m.
- Distribution: recorded only from type locality.

G411 *C. (C.) uranipponensis* (OKUTANI, 1969-a)

Nihonkai-ebisu

- Type locality: off Akita prefecture (northwestern Honshū, Japan Sea).
- Distribution: recorded only from type locality.
- Original genus: *Tristichotrochus*.

G412 *C. (C.) mikikoeae* (KOSUGE & ŌISHI, 1970)

Miki-ebisu

- Type locality: East China Sea (sea area Nōrin 531: 20° 30' N., 123° 20' E., ± 110 m.)

- Distribution: recorded only from type locality.
- Original genus: *Tristichotrochus*.

G413 *C. (C.) nakamigawai* (SAKURAI, 1994-a)

Tōka-ebisu

- Type locality: Wakayama prefecture, central Honshū.
- Distribution: Kanagawa prefecture (Jōgashima), western Kii peninsula (Nada to Kushimoto).
- Original genus: *Tristichotrochus*.

G414 *C. (C.) amamiensis* (SAKURAI, 1994-a)

Amami-ebisu

- Type locality: Amami Ōshima.
- Distribution: Amami islands (Kakeroma), Senkaku islands; Philippines (Mactan).
- Original genus: *Tristichotrochus*.

G415 *C. (C.) sakashitai* (SAKURAI, 1994-a)

Miura-ebisu ( = Nankai-ebisu)

- Type locality: 'Off Yamakawa, Kyūshū, 80-120 m.' corrected to 'off Jōgashima, Kanagawa Prefecture' (Sagami bay, central Honshū) (HASEGAWA & SAITŌ, 1995).
- Distribution: western Japan Sea (off Mishima TSUCHIDA & HORI, 1996); type locality.
- Original genus: *Tristichotrochus*.

**Notes:** records from Kyūshū and the East China Sea in the original description were erroneous (HASEGAWA & SAITŌ, 1995: 33).

G416 *C. (C.) katoi* (SAKURAI, 1994-a)

Fuku-rokuju-ebisu

- Type locality: Okinoshima, Kōchi prefecture (southwestern Shikoku).
- Distribution: western Kyūshū (off Yamakawa, Kagoshima prefecture, 60m); type locality.
- Original genus: *Tristichotrochus*.

G417 *C. (C.) sugitanii* (SAKURAI, 1994-a)

Jūrōjin-ebisu

- Type locality: off Mie prefecture, central Honshū.
- Distribution: recorded only from type locality.
- Original genus: *Tristichotrochus*.

Subgenus *Benthastelene* IREDALE, 1936

Type species: *Benthastelene katherina* IREDALE, 1936 (o. d.)

G418 *C. (B.) tosaensis* (KURODA & HABE in HABE, 1961-a)

Tosa-ebisu

- Type locality: off Kōchi prefecture (southern Shikoku), 100-200 m.
- Distribution: Enshū-nada (off Shizuoka prefecture) and southwards, western Kyūshū, P6-P5, EC5; southwestern

Japan to New Caledonia.

- Habitat: 100-500 m., sand.
- Original genus: *Tristichotrochus*.

□ Genus *Coralastele* IREDALE, 1930

Type species: *Coralastele allanae* IREDALE, 1930 (o. d.)

G419 *Coralastele pulcherrima* (SOWERBY III, 1914-c)

Heso-aki-ebisu

- Type locality: 'Ōshima' (possibly Kii-Ōshima, off southern Kii peninsula, central Honshū; or Amami-Ōshima).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines.
- Habitat: intertidal, rubble.
- Original genus: *Eutrochus*.

□ Genus *Kombologion* CLENCH & TURNER, 1960

Type species: *Calliostoma bairdii* VERRILL & SMITH, 1880 (o. d.)

G420 *K. alboregium* (AZUMA, 1961-a)

Otome-ebisu (= Otohime-ebisu)

- Type locality: off Kōchi prefecture (southern Shikoku), 100 fms.
- Distribution: off Kōchi prefecture.
- Habitat: 200-300 m.
- Original genus: *Calliostoma* (*Tristichotrochus*).

G421 *K. babelica* HABE, 1961-a

Yume-no-tō-ebisu

- Type locality: off Cape Ashizuri, Kōchi prefecture (southwestern Shikoku); 150-200 m.
- Distribution: off Kōchi prefecture, off Kii peninsula.
- Habitat: 150-200 m., sand.

G422 *K. filiareginae* SAKURAI, 1994-a

Benten-ebisu

- Type locality: 'off Yamakawa (Kagoshima prefecture, Kyūshū)' (see note).
- Distribution: Kii peninsula (off Shingu-Nie, 90 fms), Kyūshū (off Yamakawa); Taiwan.

**Notes:** holotype and other type material are all specimens from from Taiwan (HASEGAWA & SAITŌ, 1995).

□ Genus *Fautor* IREDALE, 1924

Type species: *Ziziphinus comptus* A. ADAMS, 1855 (o. d.)

G423 *F. poupineli* (MONTROUZIER, 1875)

(= *Calliostoma purpureocinctum* HEDLEY, 1894; *C. adamsi* BRAZIER, 1895)

Arare-ebisu

- Type locality: New Caledonia.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, EC5, ECP4-ECP2, off Torishima (Izu islands); Philippines, Australia.
- Habitat: 20-150 m., rocks.

- Original genus: *Calliostoma*.

G424 *F. opalinus* KURODA & HABE in KURODA *et al.*, 1971

Niji-iro-arare-ebisu

- Type locality: Sagami bay, central Honshū.
- Distribution: recorded only from type locality.

G425 *F. kurodai* AZUMA, 1975-a

Kuroda-arare-ebisu (= Kuroda-ebisu)

- Type locality: off Yuzaki (Cape), southern Kii peninsula, central Honshū; 100-120 m.
- Distribution: off Kii peninsula.
- Habitat: 100-200 m., sand.
- Original genus: *Calliostoma* (*Tristichotrochus*).

G426 *F. sagamiensis* ISHIDA & UCHIDA, 1977

Sagami-arare-ebisu

- Type locality: off Jōgashima (Sagami bay, central Honshū) in flatfish nets on pebble bottom.
- Distribution: recorded only from type locality.

□ Genus *Laetifautor* IREDALE, 1929

Type species: *Calliostoma trepidum* HEDLEY, 1907 (o. d.); = *Calliostoma deceptum* E. A. SMITH, 1899)

G427 *L. rubropunctatum* (A. ADAMS, 1853-b)

Azami-ebisu

- Type locality: none designated.
- Distribution: Kii peninsula (off Kushimoto), Kōchi prefecture (Okinoshima), Okinawa islands; Australia.
- Habitat: 50-200 m., rubble.
- Original genus: *Ziziphinus*.

G428 *L. elegans* HABE, 1960-b

(= *L. amakusaensis* HABE in AZUMA & TOKI, 1968)  
Sa-otome-ebisu

- Type locality: Tomioka, Amakusa island, western Kyūshū.
- Distribution: Kii peninsula and southwards, P5, Japan Sea (Tsunoshima, off Yamaguchi prefecture, J1), EC5, ECP4-ECP3.
- Habitat: intertidal to 50 m., rocks.

□ Genus *Otukaia* IKEBE, 1942

Type species: *Calliostoma kiheiziebisu* ŌTSUKA, 1939 (o. d.)

G429 *O. kiheiziebisu* (ŌTSUKA, 1939-a)

Kiheiji-ebisu

- Type locality: Kashima-nada (off Ibaraki prefecture, central Honshū); 600 m.
- Distribution: Fukushima prefecture and southwards, Kashima-nada to Kii peninsula, Tosa bay (southern Shikoku).
- Habitat: 200-1000 m., sandy mud.
- Original genus: *Calliostoma*.



G430 *O. otukai* **IKEBE, 1942**

Ōtsuka-ebisu

- Type locality: Yoshino, Chiba prefecture, central Honshū (fossil).
- Distribution: Gotō islands off western Kyūshū ('Sōyō-Maru' sta. 443, 384m).

G431 *O. rossica* (**DALL, 1919-c**)

Ohōtsuku-ebisu

- Type locality: USBF sta. 5012, Aniwa bay (Sakhalin); 40 fms.
- Distribution: J5-J6, Hokkaidō and northwards, P10, OP, Kuril islands, Okhotsk Sea; Sakhalin, Primoriye region (Japan Sea coast of Russia).
- Habitat: 50-550 m., sandy mud.
- Original genus: *Margarites* (*Pupillaria*).

G432 *O. ikukoeae* **SAKURAI, 1994-a**

Ikuko-ebisu

- Type locality: off Kōchi prefecture (southern Shikoku).
- Distribution: recorded only from type locality.

□ Genus *Omphalotukaia* **YOSHIDA, 1948**

Type species: *Calliostoma hajimeanum* YOSHIDA, 1948 (o. d.)

G433 *Om. hajimeanum* (**YOSHIDA, 1948**)

Hajime-ebisu

- Type locality: off Kii peninsula, central Honshū; 100 fms.
- Distribution: Kii peninsula, Tosa bay (southern Shikoku); southwestern Taiwan.
- Habitat: 100-200 m., sandy mud.
- Original genus: *Calliostoma* (*Otukaia*).

G434 *Om. nobilis* (**HIRASE, 1922**)

Tomi-ebisu

- Type locality: off Misaki (Sagami bay, central Honshū).
- Distribution: Sagami bay, Tosa bay (southern Shikoku).
- Habitat: 200-300 m., sandy mud.
- Original genus: *Astele*.

Subfamily **SOLARIELLINAE POWELL, 1951**

(= **MINOLIINAE KURODA et al.**, 1971)

□ Genus *Solariella* **WOOD, 1842**

Type species: *Solariella maculata* WOOD, 1842 (o. d.)  
(= *Macheroplx* FRIELE, 1877)  
(Refs.: Ōyama, 1943-c)

G435 *S. triplostephanus* **DALL, 1910-a**

Mitsukado-hiro-beso-shitadami

- Type locality: off La Paz, lower California, USA.
- Distribution: off Kōchi prefecture (southern Shikoku); Baja California to Ecuador.

G436 *S. nyssonus* **DALL, 1919-c**

(= *M. margaritus sensu* HABE & ITŌ, 1965)

Shirogane-shitadami

- Type locality: USBF sta. 3738, 'off Hondo, Japan', (Honshū); 167 fms.

- Distribution: Sagami bay and southwards, P7-P5, Japan Sea (off Niigata prefecture, J3-J1), EC5, East China Sea.

- Habitat: 50-350 m., sandy mud.

G437 *S. delicata* **DALL, 1919-c**

(= *Margarita cinerea* YOKOYAMA, 1920)

Uba-shitadami (= Matama-shitadami; Yasagata-shitadami)

- Type locality: USBF sta. 5050, off Kinkazan, northeastern Honshū: 38° 11.5' N., 142° 08' E., 266 fms.

- Distribution: Tsugaru strait and southwards, P10-P5 (Izu islands, 1230-1640 m.; Sagami bay 620-1500 m.

OKUTANI, 1964-b; 1966; 1968), off southern Shikoku, Japan Sea (Noto peninsula).

- Habitat: 64-4000 m., sandy mud.

G438 *S. varicosa* (**MIGHELS & ADAMS, 1842**)

(= *Solariella koreanica* DALL, 1919; *M. varicosa coreanica sensu* K. ITŌ, 1967)

Hida-shitadami (= Chōsen-shitadami)

- Type locality: Chaleur bay, between New Brunswick and Gaspé peninsula, Quebec (eastern Canada).

- Distribution: Japan Sea (off Echizen-cho (Fukui prefecture) and northwards, J2-J5), off Chōshi (Chiba prefecture, central Honshū), P8-P10, Hokkaidō, OP, Kuril islands; eastern Korea, Okhotsk Sea to USA, Atlantic Ocean.

- Habitat: 200-1200 m., sandy mud.

- Original genus: *Margarita*.

G439 *S. baxteri* **MCLEAN, 1995-b**

(= *Margarites (Pupillaria) rudis* DALL, 1919-c non MÖRCH, 1869)

Futo-suji-ebisu

- Type locality: Coal Harbour, Shumagin Islands (Alaska).

- Distribution: Hokkaidō and northwards, P10, OP, Kuril islands, Okhotsk Sea; Bering Sea, Alaska.

- Original genus: *Margarites* (*Costomargarites*).

□ Genus *Minolia* **A. ADAMS, 1860-h**

Type species: *Minolia punctata* A. ADAMS, 1860 (o. d.)

(= *Minosia* DUNKER, 1882 *err. pro -olia*)

G440 *M. punctata* **A. ADAMS, 1860-h**

(= *M. elegantisculpta* KURODA, 1952)

Koshitaka-shitadami (= Kebori-shitadami)

- Type locality: 'Japan'.

- Distribution: northeastern Honshū (Ōtsuchi bay TSUCHIDA, 1990), Bōsō peninsula and southwards, P7-P5, southwestern Shikoku (Okino-se bank, off Okinoshima TSUCHIDA, 1989), Japan Sea (Oga peninsula, J3-J1), EC5.

- Habitat: 50-150 m., sandy mud.

**Notes:** type locality given as 'Mishima, Japan Sea' in

KURODA *et al.*, 1971.

G441 *M. gemmulata* KURODA & HABE in KURODA *et al.*, 1971

Arare-koshitaka-shitadami

- Type locality: Sagami bay, central Honshū.
- Distribution: Sagami bay, Enshū-nada (off Aichi prefecture).
- Habitat: 50-200 m., sandy mud.

G442 *M. pseudobscura* (YOKOYAMA, 1927)

Tagakake-shitadami

- Type locality: Ōkuwa, Ishikawa prefecture, central Honshū (fossil).
- Distribution: Sagami bay (550-700 m. OKUTANI, 1964-b), Japan Sea (Obama bay, Fukui prefecture).
- Habitat: 50-200 m., sandy mud.
- Original genus: *Solariella*.

G443 *M. subangulata* KURODA & HABE, 1952-a

(= *Solariella angulata* YOKOYAMA, 1922 non TOKUNAGA, 1906)

Kado-koshitaka-shitadami (= Kado-soko-shitadami)

- Type locality: Ichihara City, Chiba prefecture, central Honshū (fossil).
- Distribution: Aomori prefecture and southwards, Iwate prefecture (Ōtsuchi bay TSUCHIDA, 1990), P9-P1, Japan Sea (J4-J1), EC5, East China Sea.
- Habitat: 50-150 m., sandy mud.

G444 *M. sakyā* NOMURA, 1940

- Type locality: Annaka and Higashi-dono, Gunma prefecture, central Honshū (fossil).
- Distribution: off eastern Bōsō peninsula, 130-150 m.

□ Genus *Hazuregyra* SHIKAMA, 1962-a

Type species: *Hazuregyra watanabei* SHIKAMA, 1962 (o. d.)

G445 *H. watanabei* SHIKAMA, 1962-a

Hazure-shitadami (= Maimai-itokake)

- Type locality: off Chōshi (Chiba prefecture, central Honshū), in stomachs of fish *Lycodes caudimaculatus* from 200-250 m.
- Distribution: Sagami bay (OKUTANI, 1966), Kashima-nada (off Chōshi, Chiba prefecture, 870 m. OKUTANI, 1964-b) and northwards, P8-P10 to Hokkaidō.
- Habitat: 300-500 m.

□ Genus *Microgaza* DALL, 1881

Type species: *Microgaza rotella* DALL, 1881 (o. d.)

G446 *M. fulgens* DALL, 1907-c

Hikari-shitadami

- Type locality: USFC sta. 4891, Sea of Japan.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Mishima and Tsunoshima, J1), EC5.

- Habitat: 50-350 m., sand.

G447 *M. katoi* (KURODA & HABE in HABE, 1961-a)

Kato-shitadami

- Type locality: off Cape Ashizuri, southwestern Shikoku; 200-300 m.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, Izu islands (Hachijō island OKUTANI, 1964-b), Enshū-nada, Kumano-nada, off Kōchi prefecture, off western Kyūshū.
- Habitat: 200-300 m., coarse sand and stones.
- Original genus: *Ethaliopsis*.

G448 *M. iridescens* (HABE, 1961-a)

Suhada-shitadami

- Type locality: off Cape Ashizuri, southwestern Shikoku; 200-300 m.
- Distribution: central Honshū (Sagami bay; Enshū-nada OKUTANI, 1964-b), Kumano-nada, southern Shikoku, off western Kyūshū.
- Habitat: 200-300 m., sand.
- Original genus: *Ethaliopsis*.

G449 *M. ziczac* KURODA & HABE in KURODA *et al.*, 1971

(= *Solariella laevis* KURODA *sensu* WATANABE & NARUKE, 1988)

Yagasuri-shitadami

- Type locality: Sagami bay, central Honshū.
- Distribution: off Chōshi (Chiba prefecture, central Honshū), west off Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986), Sagami bay, southwestern Shikoku (Okino-se bank, off Okinoshima TSUCHIDA, 1989), off western Kyūshū.
- Habitat: 60-150 m., coarse sand and stones.

G450 *M. opalina* (SHIKAMA & HAYASHI in SHIKAMA, 1977)

Opāru-shitadami

- Type locality: 'off southwestern Honshū'.
- Distribution: southwestern Shikoku (Kashiwajima), Kii peninsula (off Kushimoto, 450 m.) (SHIKAMA, 1977).
- Original genus: *Solariella* (*Microgaza*).

Subfamily HALYSTYLINAE KEEN, 1958

□ Genus *Charisma* HEDLEY, 1915

Type species: *Charisma compacta* HEDLEY, 1915 (o. d.)

Subgenus *Cavostella* LASERON, 1954

Type species: *Cavostella radians* LASERON, 1954 (o. d.)

G451 *C. candida* (A. ADAMS, 1861-d)

Kodomo-sanshō

- Type locality: Sado island, Japan Sea; 30 fms.
- Distribution: western Japan Sea to northern Kyūshū.
- Original genus: *Setia*.

Subfamily **LIRULARIINAE HICKMAN & MCLEAN, 1990**

□ Genus ***Lirularia* DALL, 1909-b**

Type species: *Margarites lirularia* CARPENTER, 1864 (o. d.)

G452 ***L. (L.) iridescens* (SCHRENCK, 1863 in 1862-63)**

Akoya-shitadami (= Akoya-chigusa)

- Type locality: northern Japan.
- Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay TSUCHIDA, 1990) and northwards, P9-P10, Hokkaidō, Japan Sea (J4-J5), OP, Okhotsk Sea, Kuril islands; Korea (Kuyongp'o) Primoriye region (Japan Sea coast of Russia)
- Habitat: intertidal to 20 m., on seaplants (*Zostera maxima*, *Phyllospadix iwatensis* etc.).
- Original genus: *Trochus*.

G453 ***L. (L.) yamadana* (E. A. SMITH, 1875-b)**

Yamada-shitadami

- Type locality: 'Yamada harbour' Iwate prefecture, northeastern Honshū, 7 fms.
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, P9-P10, Japan Sea (Wakasa bay, J2-J4).
- Habitat: intertidal to 200 m., on sea plants.
- Original genus: *Trochus* (*Gibbula*).

G454 ***L. (L.) pygmaea* (YOKOYAMA, 1922)**

Hinode-shitadami

- Type locality: Numanami, Chiba prefecture, central Honshū (fossil).
- Distribution: Izu peninsula and northwards, P6-P9, Iwate prefecture.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Leptothyra*.

G455 ***L. (L.) redimita* (GOULD, 1861 in 1859-61)**

Kasuri-maki-shitadami

- Type locality: 'Hakodadi Bay' (Hakodate, Hokkaidō).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and northwards, P8-P10, Japan Sea (Sado island, J3-J5), southern Hokkaidō.
- Habitat: 20-60 m., sandy gravel.
- Original genus: *Gibbula*.

Subfamily **UMBONIINAE H. A. ADAMS, 1854**

□ Genus ***Umbonium* LINK, 1807 in 1806-08**

Type species: *Trochus vestiarius* LINNAEUS, 1758 (s. d. PILSBRY, 1889)

(= *Globulus* SCHUMACHER, 1817; *Rotella* LAMARCK, 1822 in 1815-22)

Subgenus ***Umbonium s. str.***

G456 ***U. (U.) vestiarium* (LINNAEUS, 1758)**

Sarasa-kisago

- Type locality: 'in *M. Mediterraneo, Asiatico, Chinensi*'

(Mediterranean, Asian and Chinese seas).

- Distribution: P2; Taiwan and southwards, Philippines, tropical western Pacific, Australia.
- Habitat: intertidal to low water, sandy mud.
- Original genus: *Trochus*.

G457 ***U. (U.) thomasi* (CROSSE, 1862-a)**

Chōsen-kisago

- Type locality: New Caledonia.
- Distribution: Japan Sea (Mishima FUKUDA, 1989, 1996); Primoriye region (Japan Sea coast of Russia), Korea, northern China.
- Habitat: intertidal, sand & mud.
- Original genus: *Clanculus*.

Subgenus ***Suchium* MAKIYAMA, 1925**

Type species: *Umbonium suchiense* YOKOYAMA, 1923 (s. d. MAKIYAMA, 1927)

G458 ***U. (S.) suturale* (LAMARCK, 1822 in 1815-22)**

Taiwan-kisago

- Type locality: 'les mers de l'Inde'.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2.
- Habitat: intertidal to 10 m., sand.
- Original genus: *Rotella*.

G459 ***U. (S.) moniliferum* (LAMARCK, 1822 in 1815-22)**

(= *U. adamsi* DUNKER, 1882 *sensu* IWAKAWA, 1919) Ibo-kisago

- Type locality: 'les mers de l'Inde'.
- Distribution: Hokkaidō and southwards, Tsugaru peninsula, P10-P5, Japan Sea (J4-J1), EC5, Seto inland sea; Korea.
- Habitat: intertidal in bays, sand & mud.
- Original genus: *Rotella*.

G460 ***U. (S.) costatum* (VALENCIENNES in KIENER, 1838 in 1834-50)**

(= *Rotella superba* GOULD, 1861)

Kisago (= Iro-kisago)

- Type locality: Japan.
- Distribution: southern Hokkaidō and southwards, Tsugaru peninsula, P10-P5, Japan Sea (J4-J1), EC5, Seto inland sea; Korea.
- Habitat: intertidal to low water, sand.
- Original genus: *Rotella*.

G461 ***U. (S.) giganteum* (LESSON, 1833 in 1832-35)**

(= *Monilea ojiensis* YOKOYAMA, 1927)

Danbei-kisago (= Ō-shitadami)

- Type locality: none designated.
- Distribution: off Fukushima prefecture and southwards, P8-P5, Japan Sea (Oga peninsula, J3-J1); Korea (Pusan).
- Habitat: 5-30 m., sand.
- Original genus: *Rotella*.

□ Genus *Ethalia* H. & A. ADAMS, 1854 in 1853-58

Type species: *Rotella guamensis* QUOY & GAIMARD, 1834 (s. d. PILSBRY, 1889)

G462 *E. guamensis* (QUOY & GAIMARD, 1834 in 1832-35)

(= *E. montrouzieri* SOUVERBIE, 1878; *E. guamensis selenomphala* PILSBRY, 1905)

Nishiki-kisago (= Kisago-modoki)

- Type locality: Guam, Marianas islands.
- Distribution: Kii peninsula and southwards, Ogasawara islands (Chichijima FUKUDA, 1995), western Kyūshū, P5, EC5, ECP4-ECP2, P2; Philippines, tropical Pacific, Australia.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Rotella*.

G463 *E. sanguinea* PILSBRY, 1905

(= *Trochus callosus* KOCH in PHILIPPI, 1844 in 1842-51 non GMELIN, 1791)

Akabeso-kisago-modoki (= Sarasa-kisago-modoki)

- Type locality: none designated.
- Distribution: Okinoshima (Kōchi prefecture, southern Shikoku) and southwards, Yakushima, P5, ECP4-ECP2, P2; Philippines.
- Habitat: intertidal to 20 m., sand.
- Notes: originally ssp. of *E. guamensis*.

G464 *E. rufula* GOULD, 1861 in 1859-61

- Type locality: 'Ousima' (Amami Ōshima).
- Distribution: recorded only from type locality.
- Habitat: intertidal to 20 m., sand.

G465 *E. nitida* A. ADAMS, 1863-h

- Type locality: 'Yobuko' (Saga prefecture, northern Kyūshū); 14 fms.
- Distribution: recorded only from type locality.

G466 *E. omphalotropis* A. ADAMS, 1863-h

- Type locality: 'Yobuko' (Saga prefecture, northern Kyūshū); 17 fms.
- Distribution: recorded only from type locality.

G467 *E. polita* A. ADAMS, 1862-c

- Type locality: 'Gotto (Gotō) islands' (Kyūshū); 71 fms.
- Distribution: recorded only from type locality.

□ Genus *Ethaliella* PILSBRY, 1905

Type species: *Ethalia floccata* SOWERBY III, 1903 (o. d.)

G468 *Et. floccata* (SOWERBY III, 1903)

Hana-gosho-guruma

- Type locality: Yakushima (off southern Kyūshū).
- Distribution: Kii peninsula and southwards, Ogasawara islands (Chichijima FUKUDA, 1993), P5, ECP4-ECP2, P2.
- Habitat: intertidal to 30 m., sand.
- Original genus: *Ethalia*.

G469 *Et. capillata* (GOULD, 1862)

Tsuya-usu-beni-shitadami

- Type locality: coast of China, 28° 30' N., 25 fms., sand.
- Distribution: Amami Ōshima (Yagi-jima in Naze bay, by sand pump), Okinawa (off Sate, Kunigami district, by sand pump) (KOSUGE & ISHIKAWA, 1993); China.
- Habitat: shallow water, sand.
- Original genus: *Ethalia*.

□ Genus *Talopena* IREDALE, 1918

Type species: *Monilea incerta* IREDALE, 1918 (o. d.)

G470 *T. vernicosa* (GOULD, 1861 in 1859-61)

(= *T. lifuana* (FISCHER, 1878) *sensu* KURODA, 1961)

Habutae-shitadami

- Type locality: 'Ousima' (Amami Ōshima).
- Distribution: Kii peninsula and southwards, Ogasawara islands (Chichijima FUKUDA, 1993), P5, ECP4-ECP2, P2; Philippines.
- Habitat: intertidal to 30 m., sand.
- Original genus: *Monilea*.

□ Genus *Camitia* H. & A. ADAMS, 1854 in 1853-58

Type species: *Camitia pulcherrima* H. & A. ADAMS, 1854 (o. d.)

G471 *C. rotellina* (GOULD, 1849 in 1846-50)

Hana-kisago

- Type locality: 'Mangsi island' (Balabac strait, Philippines).
- Distribution: Tanegashima, Yakushima and southwards, ECP4-ECP2; Philippines.
- Habitat: subtidal on sand.
- Original genus: *Trochus* (*Monodonta*).

□ Genus *Ethminolia* IREDALE, 1924

Type species: *Ethminolia probabilis* IREDALE, 1924 (o. d.)

G472 *E. stearnsii* (PILSBRY, 1895-a)

Kinu-shitadami

- Type locality: 'Nemoto, Boshu' (Bōsō peninsula, central Honshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Sado island, J3-J1), EC5, ECP4-ECP2; Philippines.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Minolia*.

G473 *E. nektonica* (OKUTANI, 1961-a)

(= *Solariella nektonica tajimensis* OKUTANI & SAKURAI, 1968)

Oyogi-shitadami (= Ito-oyogi-shitadami)

- Type locality: off Kushikino, Kagoshima prefecture, southern Kyūshū: 31° 35.3' N., 130° 06.5' E., 89 m., sand.
- Distribution: Suruga bay and southwards, P6-P5, Japan

Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5, western Kyūshū.

- Habitat: 35-150 m., sand.
- Original genus: *Solariella*.

□ Genus *Isanda* H. & A. ADAMS, 1854 in 1853-58

Type species: *Isanda coronata* H. & A. ADAMS, 1854 (o. d.)

G474 *I. murrea* (REEVE, 1848 in 1843-65)

Kaba-tama-shitadami

- Type locality: none designated.
- Distribution: Gotō islands (western Kyūshū); 'Pacific side, 33° N' (KURODA & HABE, 1952-a).
- Original genus: *Turbo*.

□ Genus *Conotalopia* IREDALE, 1929

Type species: *Minolia henniana* MELVILL, 1891 (o. d.)

G475 *C. ornata* (SOWERBY III, 1903)

(= *Trochus (Minolia) angulata* TOKUNAGA, 1906)

Hina-shitadami

- Type locality: 'Hirado, Hizen' (Hirado island, Nagasaki prefecture, western Kyūshū).
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Sado island, J3-J1), EC5.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Minolia*.

G476 *C. mustelina* (GOULD, 1861 in 1859-61)

(= *Gibbula awajiensis* SOWERBY III, 1914-c)

Awaji-chigusa

- Type locality: 'Hakodadi Bay' (Hakodate, Hokkaidō), 'at low water'.
- Distribution: southern Hokkaidō, Iwate prefecture and southwards, P9-P5, EC5; Korea.
- Habitat: intertidal on rocks and among seaweed in pools.
- Original genus: *Margarita*.

G477 *C. hilarula* (YOKOYAMA, 1926)

Saki-guro-hina-shitadami

- Type locality: Sado island, Japan Sea.
- Distribution: recorded only from type locality.
- Habitat: intertidal to 20 m.
- Original genus: *Minolia*.

G478 *C. musiva* (GOULD, 1861 in 1859-61)

Maru-hime-shitadami

- Type locality: Hong Kong harbour, 10 fms, shelly gravel.
- Distribution: Japan Sea (Wakasa bay, 40-161 m., sand); Hong Kong.
- Original genus: *Margarita*.

G479 *C. sematensis* (ŌYAMA, 1942)

(= *Solariella philippinensis* WATSON *sensu* YOKOYAMA, 1922)

Tōdaka-shitadami (= Hana-shitadami)

- Type locality: Semata Bed, Ichihara City, Chiba prefecture, central Honshū (fossil).
- Distribution: off Chōshi (Chiba prefecture, central Honshū), Japan Sea (off Fukui prefecture; off Tsunoshima, Yamaguchi prefecture).
- Original genus: *Minolia (Conotalopia)*.

G480 *C. minima* GOLIKOV in GOLIKOV & SCARLATO, 1967

Keshi-tsubu-shitadami

- Type locality: Possiet (Posyet) bay, Japan Sea (southern Primoriye Region, Russia).
- Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay TSUCHIDA, 1990) and southwards, Kanagawa prefecture (Miura City EKAWA, 1993-e), Shizuoka prefecture (Heda), Kii peninsula (Kushimoto), Ishikawa prefecture (Togi-machi), Japan Sea (Sado island; Amino-machi, Kyōto prefecture).

□ Genus *Monilea* SWAINSON, 1840

Type species: *Trochus calliferus* LAMARCK, 1822 (o. d.) (= *Talopia* GRAY, 1842 *nom. nud.*)

G481 *M. smithi* (WOOD, 1828 in 1818-28)

Nobori-gai

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2.
- Habitat: intertidal to low water, sand.
- Original genus: *Trochus*.

G482 *M. belcheri* (PHILIPPI, 1849-e)

Heso-wagoma

- Type locality: none designated (Hanley collection).
- Distribution: Kii peninsula and southwards, Ogasawara islands, P5, EC5, ECP4-ECP2; Australia to Tonga islands.
- Habitat: 10-50 m., sand.
- Original genus: *Trochus*.

G483 *M. callifera* (LAMARCK, 1822 in 1815-22)

Komon-heso-wagoma

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3, ECP2; Indo-Pacific.
- Habitat: intertidal to 20 m., under rocks.
- Original genus: *Trochus*.

G484 *M. simulans* E. A. SMITH, 1899-b

Shiwa-heso-wagoma

- Type locality: Macclesfield Bank, central South China Sea; 30-50 fms.
- Distribution: Okinawa (off Naha; Tokashiki island, 75 m. TSUCHIDA & KUROZUMI, 1992); type locality.

**Notes:** *M. fritzei* BÖTTGER, 1892 was described from 'Küste von Okinawa' (coast of Okinawa) but the present

authors have been unable to confirm the status of this taxon. It was not mentioned in Kuroda & Habe, 1952-a.

□ Genus *Rossiteria* BRAZIER, 1895

Type species: *Trochus nucleus* PHILIPPI, 1849 (o. d.)

G485 *R. nuclea* (PHILIPPI, 1849 in 1849-50)

(= *Monilea nucleolus* PILSBRY, 1903)

Ko-nobori-gai

- Type locality: none designated (Belcher collection).
- Distribution: Tateyama bay (central Honshū TAMURA & OKUTANI, 1989) and southwards, Kii peninsula, Ogasawara islands, P5, EC5, ECP4-ECP2; tropical western Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Trochus*.

Family SKENEIDAE CLARK, 1851

□ Genus *Teinostoma* H. & A. ADAMS, 1854 in 1853-58

G486 *T. radiatum* A. ADAMS, 1863-h

- Type locality: 'O-sima' (Kii-Ōshima, Kii peninsula).
- Distribution: 'Pacific side, 33° N.' (KURODA & HABE, 1952-a).

G487 *T. perspicua* (A. ADAMS, 1861-f)

- Type locality: 'Kala-hai; Shan-tung' (Shandong province, China).
- Distribution: 'Pacific side, 33° N.' (KURODA & HABE, 1952-a).
- Original genus: *Ethalia*.

G488 *T. concentricum* A. ADAMS, 1863-h

Mijin-kohaku-gai

- Type locality: 'O-sima' (Kii-Ōshima, Wakayama prefecture) and 'Takano-Sima' (Takanoshima, southern Bōsō peninsula, Chiba prefecture).
- Distribution: Miyagi prefecture and southwards, P8-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5.
- Habitat: intertidal, sandy mud.

G489 *T. lucida* A. ADAMS, 1863-h

Umi-kohaku-gai

- Type locality: 'Simoda' (Shimoda, Izu peninsula, central Honshū).
- Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay), Izu peninsula, P6-P5, EC5.
- Habitat: intertidal, sandy mud.

□ Genus *Brookula* IREDALE, 1912

Type species: *Brookula stibarochila* IREDALE, 1912 (o. d.)

G490 *B. tanseimaruae* TSUCHIDA & HORI, 1996

Tansei-itokake-shitadami

- Type locality: off Tsunoshima, Yamaguchi prefecture (western Japan Sea): 34° 30.1'-34° 30.2' N, 130° 52.2'-130° 52.3' E., 93-95 m.

- Distribution: known only from type locality.

□ Genus *Conradia* A. ADAMS, 1860-c

Type species: *Conradia cingulifera* A. ADAMS, 1860 (mt.)

G491 *C. cingulifera* A. ADAMS, 1860-c

Watazoko-shitadami

- Type locality: off Mishima (Japan Sea), 113 m.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, Sagami bay, southwestern Shikoku (Okino-se bank, off Okinoshima TSUCHIDA, 1989), P7-P5, Japan Sea (J2-J1), EC5.
- Habitat: 40-120 m., sand.

G492 *C. doliaris* A. ADAMS, 1863-e

(= *C. dorialis* (sic) A. ADAMS *sensu* HIGO & GOTŌ, 1993 err.)

Kaneko-suzu-kago (= Nagisa-shitadami)

- Type locality: 'Seto-uchi, Mososeki' (Moji, Fukuoka prefecture, western Seto inland sea), 7 fms.
- Distribution: Kii peninsula and westwards, Seto inland sea, northern Kyūshū (EKAWA, 1989).
- Habitat: intertidal to 10 m., sand.

G493 *C. clathrata* A. ADAMS, 1860-c

Warabe-shitadami

- Type locality: Korea strait, 63 fms.
- Distribution: Japan Sea (Mishima TSUCHIDA *et al.* 1991; Wakasa bay KANEKO, 1989; Toyama bay ITŌ, 1986).
- Habitat: 50-160 m., sand.

G494 *C. perclathrata* SAKURAI, 1983-b

Sagami-shitadami

- Type locality: off Zushi, eastern Sagami bay; 30-50 m., sandy mud, in *Astropecten polyacanthus*.
- Distribution: Japan Sea (Sado island; off Niigata prefecture; Wakasa bay), type locality.
- Habitat: 30-160 m., sand or coarse sand and stones.

G495 *C. carinifera* A. ADAMS, 1860-c

- Type locality: off Mishima (Japan Sea), 63 fms.
- Distribution: recorded only from type locality.

G496 *C. pulchella* A. ADAMS, 1861-f

- Type locality: Tsushima, western Japan Sea, 26 fms.
- Distribution: recorded only from type locality.

G497 *C. tornata* A. ADAMS, 1863-e

- Type locality: 'Gotto' (Gotō islands, off western Kyūshū), 48 fms.
- Distribution: recorded only from type locality.

□ Genus *Gottoina* A. ADAMS, 1863-e

Type species: *Gottoina sulcifera* A. ADAMS, 1863

G498 *G. sulcifera* A. ADAMS, 1863-e

- Type locality: 'Gotto' (Gotō islands, off western Kyūshū),

48 fms.

- Distribution: recorded only from type locality.

G499 *G. pyrgula* A. ADAMS, 1863-e

- Type locality: 'Gotto' (Gotō islands, off western Kyūshū), 48 fms.

- Distribution: recorded only from type locality.

□ Genus *Lissotesta* IREDALE, 1915

Type species: *Cyclostrema micra* TENISON-WOODS, 1877 (o. d.)

G500 *L. sobrina* (A. ADAMS, 1861-f)

(= *Skenea nipponica* YOKOYAMA, 1920)

Itoko-shitadami

- Type locality: 'Tabu-sima' (Tobishima, off Yamagata prefecture, Japan Sea).
- Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay) and southwards, P9-P5, Japan Sea (Yamagata prefecture, J3-J1), EC5.
- Habitat: subtidal, sandy mud in bays.
- Original genus: *Ethalia*.

G501 *L. japonica* (A. ADAMS, 1861-e)

Hatoko-shitadami

- Type locality: 'Mino-Sima' (Mishima, Japan Sea), 63 fms.
- Distribution: western Japan Sea (off Tsunoshima TSUCHIDA & HORI, 1996; type locality).
- Original genus: *Adeorbis*.

□ Genus *Leucorhynchia* CROSSE, 1867-b

Type species: *Leucorhynchia caledonica* CROSSE, 1867 (o. d.)

G502 *Le. caledonica* CROSSE, 1867-b

Otogi-no-sugai

- Type locality: New Caledonia.
- Distribution: Kii peninsula and southwards, western Kyūshū, P5, EC5, ECP4-ECP2; New Caledonia, Indo-Pacific.
- Habitat: intertidal, sandy mud.

G503 *Le. crossei* TRYON, 1888

Kadomaru-otogi-no-sugai

- Type locality: 'Singapore'.
- Distribution: southern Kyūshū and southwards, ECP4-ECP2; southeast Asia.
- Habitat: intertidal to 20 m., sandy mud.

G504 *Le. tricarinata* MELVILL & STANDEN, 1896

Mitsukado-otogi-no-sugai

- Type locality: Loyalty islands (New Caledonia).
- Distribution: Amami islands and southwards, Ogasawara islands (Chichijima; Hahajima FUKUDA, 1993), ECP3-ECP2, P2; Philippines, New Caledonia.
- Habitat: intertidal to 20 m., sandy mud.

G505 *Le. candida* (A. ADAMS, 1862-c)

- Type locality: 'Gotto (Gotō) islands' (off western Kyūshū); 71 fms.

- Distribution: 'Pacific side, 34° N., Japan Sea side, 35° N.' (KURODA & HABE, 1952-a).

- Original genus: *Ethalia*.

□ Genus *Crossea* A. ADAMS, 1865-a

Type species: *Crossea miranda* A. ADAMS, 1865 (s. d. SUTER, 1913)

G506 *C. miranda* A. ADAMS, 1865-a

Tsuki-yo-shitadami

Type locality: 'Gotto' (Gotō) islands ; 64 fms'.

- Distribution: Japan Sea (Mishima TSUCHIDA *et al.* 1991 ; Wakasa bay ITO, 1990), Izu islands (dredged on Zenisu bank TSUCHIDA & IKEBE, 1991), 'Pacific side, 33° N.' (KURODA & HABE, 1952-a).

G507 *C. bellula* A. ADAMS, 1865-a

• Type locality: 'Gotto (Gotō) Islands' (off western Kyūshū); 64 fms.

- Distribution: 'Pacific side, 33° N.' (KURODA & HABE, 1952-a).

**Note:** the generic placement of Kii-tamago-kohaku-gai

*Daronia cyclostina* A. ADAMS, 1864-e (type locality: 'Kino-O-sima' (Kii-Ōshima, Wakayama prefecture, central Honshū), 'on the sands') is uncertain; the type species of *Daronia* (*Cyclostrema spirula* A. ADAMS, 1850) is terrestrial. See WARÉN & BOUCHET, 1988.

□ Genus *Cyclostremiscus* PILSBRY & OLSSON, 1945

Type species: *Vitrinella panamensis* C. B. ADAMS, 1852 (o. d.)

G509 *C. emeryi* (LADD, 1966)

Mi-kagami-shitadami

- Type locality: Eniwetok, Marshall islands (fossil).
- Distribution: Izu islands (Hachijō id.), Ogasawara islands (Chichijima FUKUDA, 1993), Okinawa (Yae-bishi); Hawaii, Bikini atoll.
- Habitat: intertidal in tidepools to 50 m., sand.

□ Genus *Munditiella* KURODA & HABE, 1952-a

Type species: *Cyclostrema ammonoceras* A. ADAMS, 1863 (o. d.)

G510 *M. ammonoceras* (A. ADAMS, 1863-c)

Wadachi-shitadami

- Type locality: 'Tanabe, O-sima' (Kii-Ōshima, Wakayama prefecture, central Honshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, P11 to southern Ogasawara islands, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP3.
- Habitat: intertidal to 10 m., coarse sand and stones.
- Original genus: *Cyclostrema*.

G511 *M. kirai* (HABE, 1961-c)

Kira-wadachi-shitadami

- Type locality: Tanabe bay (Kii peninsula, central Honshū).
- Distribution: Kii peninsula (Tanabe to Cape Shio).
- Original genus: *Liotella* (*Munditiella*).

□ Genus *Dillwynella* DALL, 1889

Type species: *Dillwynella modesta* DALL, 1889 (o. d.)  
(= *Kubotanella* KURODA, 1946 *nom. nud.*)

G512 *D. vitrea* HASEGAWA, 1997-a

(= *Kubotanella vitrea* 'KURODA MS' *auct., nom. nud.*; 'K. sp. (*vitrea* KURODA, MS)' *sensu* ITŌ, 1990)

Kubota-shitadami

- Type locality: Suruga bay, central Honshū: 3.5 km off (Cape) Osezaki, 140-400 m.
- Distribution: Suruga bay, Kii strait (Wakayama prefecture), Mie prefecture (off Owase), Japan Sea (off Kuriya, Fukui prefecture) (HASEGAWA, 1997-a).
- Habitat: 140-400 m., on wood.

G513 *D. planorbis* HASEGAWA, 1997-a

Hiramaki-kubota-shitadami

- Type locality: Suruga bay, central Honshū: 3.5 km off (Cape) Osezaki, 140-400 m.
- Distribution: Suruga bay (HASEGAWA, 1997-a)
- Habitat: 140-400 m., on wood.

G514 *D. fallax* HASEGAWA, 1997-a

Kubota-shitadami-modoki

- Type locality: Suruga bay, central Honshū: off Heda, 180-450 m.
- Distribution: Suruga bay, Bungo strait (between Shikoku and Kyūshū), off Shima (Mie prefecture, Kumano-nada) (HASEGAWA, 1997-a).
- Habitat: 180-450 m., on wood.

G515 *D. seishinmaruae* HASEGAWA, 1997-a

Hiro-kuchi-kubota-shitadami

- Type locality: Suruga bay, central Honshū: off Heda, 400-740 m.
- Distribution: Suruga bay (off Heda; off Osezaki) (HASEGAWA, 1997-a).
- Habitat: 211-740 m., on wood.

□ Genus *Leptogyropsis* MARSHALL, 1988

Type species: *Leptogyropsis kalinovae* MARSHALL, 1988 (o. d.)

G516 *L. inflata* HASEGAWA, 1997-a

Fukure-shitadami

- Type locality: Suruga bay, central Honshū: off Heda, 180-450 m.
- Distribution: Suruga bay, Kumano-nada (off Shima, Mie prefecture) (HASEGAWA, 1997-a).
- Habitat: 180-515 m., on wood.

**Note:** Sukashi-toge-hime-katabe '*Liotia*' *vitreospinosa* OKUTANI, 1964-b is known only from the type locality ('Sōyō-Maru' sta. b, 46 miles off Aogashima, Izu islands: 32° 20.0' N., 145° 55.5' E., 3150-3350 m.) It does not belong to *Liotia* (MCLEAN, pers. comm.) and is most likely a Skeneid.

□ Genus *Putilla* A. ADAMS, 1867-a

Type species: *Onoba lucida* A. ADAMS, 1863 (o. d.)

G517 *P. lucida* (A. ADAMS, 1863-i)

Mijin-tsubo

- Type locality: 'O-sima' (probably Kii-Ōshima, Kii peninsula, central Honshū).
- Distribution: recorded only from type locality.
- Original genus: *Onoba*.

G518 *P. bifasciata* (A. ADAMS, 1861-d)

- Type locality: 'Awa-Sima (Awashima, Niigata prefecture, Japan Sea), in shell sand'.
- Distribution: recorded only from type locality.
- Original genus: *Setia*.

G519 *P. candida* (A. ADAMS, 1861-d)

- Type locality: 'Sado Island, 30 fathoms' (Japan Sea).
- Distribution: recorded only from type locality.
- Original genus: *Setia*.

G520 *P. tricineta* (A. ADAMS, 1861-d)

- Type locality: 'Awa-Sima (Awashima, Niigata prefecture, Japan Sea), in shell sand'.
- Distribution: recorded only from type locality.
- Original genus: *Setia*.

Superfamily LEPETODRILLOIDEA MCLEAN, 1988

Family LEPETODRILIDAE MCLEAN, 1988

□ Genus *Lepetodrilus* MCLEAN, 1988

Type species: *Lepetodrilus pustulosus* MCLEAN, 1988 (o. d.)

G521 *L. japonicus* OKUTANI, FUJIKURA & SASAKI, 1993

- Type locality: Minami-Ensei knoll (Okinawa trough): 28° 23.5' N., 127° 38.5' E., 710 m.
- Distribution: recorded only from type locality.

Superfamily SEGUENZIOIDEA VERRILL, 1884

Family SEGUENZIIDAE VERRILL, 1884

□ Genus *Seguenzia* JEFFREYS, 1876

Type species: *Seguenzia formosa* JEFFREYS, 1876 (s. d. HARRIS, 1897)

G522 *S. hosyu* HABE, 1953-d

Hōshū-ebisu

- Type locality: Tosa bay, southern Shikoku.
- Distribution: Suruga bay, Enshū-nada, off Kii peninsula, off Kōchi prefecture, off southern Kyūshū.
- Habitat: 50-150 m., fine sand.



G523 *S. mirabilis* OKUTANI, 1964-b

- Type locality: 'Sōyō-Maru' sta. b, 56 miles off Aogashima, Izu islands: 32° 20.0' N., 140° 55.5' E., 3150-3350 m.
- Distribution: recorded only from type locality.

G524 *S. nipponica* OKUTANI, 1964-b

- Type locality: 'Sōyō-Maru' sta. 86A, Enshū-nada, off Shizuoka prefecture: 34° 25.7' N., 137° 58.5' E., 620 m.
- Distribution: recorded only from type locality.

G525 *S. monocingulata* (SEGUENZA, 1876)

- Watazoko-hōshū-ebisu
- Distribution: off eastern Honshū (713-5450 m.), Okhotsk Sea.
  - Original genus: *Bembix*.

G526 *S. elegans* (JEFFREYS, 1885-a)

- Yūbi-hōshū-ebisu
- Type locality: none designated.
  - Distribution: Japan Sea, off eastern Honshū (1353-3450 m.).
  - Original genus: *Bembix*.

G527 *S. vitrea* (OKUTANI, 1968)

- (= *Acutitectonica* sp. sensu OKUTANI, 1964-b)  
Hari-kuruma-gai
- Type locality: 'Sōyō-Maru' sta. B4, off Bayonnaise Rock, Izu islands: 31° 55.0' N., 140° 20.0' E., 2100 m.
  - Distribution: Izu islands (off Miyake island OKUTANI, 1968; type locality).
  - Habitat: 1100-2100 m.
  - Original genus: '*Fluxinella*' (err. pro *Fluxinella*).

□ Genus *Basilissa* WATSON, 1879 in 1879-83

- Type species: *Basilissa superba* WATSON, 1879 (s. d. COSSMANN, 1888)  
(= *Rotellenzia* QUINN, 1987)

G528 *B. superba* WATSON, 1879 in 1879-83

- Shirogane-ryūgū-ebisu
- Type locality: 'Challenger' sta. 184, east of Cape York, northern Australia: 12° 8' S., 145° 10' E., 1400 fms, grey ooze.
  - Distribution: Shikoku basin, 3210-3600 m. (OKUTANI, 1982); Coral Sea, Australia.

G529 *B. lampra* WATSON, 1879 in 1879-83

- Ryūgū-ebisu
- Type locality: 'Challenger' sta. 246, mid-Pacific east of Japan: 36° 10' N., 178° 0' E., 2050 fms., grey ooze.
  - Distribution: Kashima-nada and southwards, P8-P5, western Kyūshū and southwards, EC5, ECP4, East China Sea.
  - Habitat: 500-3500 m., sandy mud.

G530 *B. bicarinata* HABE, 1961-a

Futakado-ryūgū-ebisu

- Type locality: off Tosa-Shimizu (Kōchi prefecture, southwestern Shikoku); 150-200 m.
- Distribution: Enshū-nada and southwards, P6-P5, Tosa bay.
- Habitat: 100-300 m., sandy mud.

G531 *B. soyoae* OKUTANI, 1964-b

- Sōyō-ryūgū-ebisu
- Type locality: 'Sōyō-Maru' sta. B5, 26 miles off Torishima, Izu islands: 30° 48.5' N., 140° 38.4' E., 2280 m.
  - Distribution: recorded only from type locality.
  - Habitat: 2000-2500 m.

□ Genus *Asthelys* QUINN, 1987

- Type species: *Basilissa munda* WATSON, 1879 (o. d.)

G532 *A. munda* (WATSON, 1879 in 1879-83)

- Yasa-ryūgū-ebisu
- Type locality: R. V. 'Challenger' sta. 85, west of Palma, Canary islands, Atlantic Ocean: 2058 m.
  - Distribution: Japan Sea (off eastern Honshū, 2058-5542 m.); northeastern Atlantic (QUINN, 1987).
  - Original genus: *Basilissa*.

G533 *A. simplex* (WATSON, 1879 in 1879-83)

- Watonson-ryūgū-ebisu
- Type locality: R. V. 'Challenger' sta. 323, off mouth of La Plata: 35° 39' S., 50° 47' W., 1900 fms..
  - Distribution: Japan Sea (off eastern Honshū, 3475-5450 m.); southern Atlantic.
  - Original genus: *Basilissa*.

Superfamily PELTOSPIROIDEA MCLEAN, 1989

Family PELTOSPIRIDAE MCLEAN, 1989

□ Genus *Rhynchopelta* MCLEAN, 1989

- Type species: *Rhynchopelta concentrica* MCLEAN, 1989 (o. d.)

G534 *R.(?) nux* OKUTANI, FUJIKURA & SASAKI, 1993

- Type locality: Izena hole (Okinawa trough): 27° 16.1' N., 127° 04.9' E., 1340 m.
- Distribution: off northeastern Okinawa (Izena hole; Iheya ridge, 1350 m.)

Superorder COCCULINIFORMIA HASZPRUNAR, 1987

Superfamily COCCULINOIDEA THIELE, 1909

(Refs.: Marshall, 1985)

Family COCCULINIDAE DALL, 1882

□ Genus *Cocculina* DALL, 1882

- Type species: *Cocculina rathbuni* DALL, 1882 (s. d. DALL, 1908)

G535 *C. japonica japonica* DALL, 1907-c

Watazoko-shirogasa

- Type locality: off Sado island (Japan Sea); 200 fms.
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, P9-P10, Japan Sea (Toyama bay, J3-J5).
- Habitat: 50-750 m., on wood.

G536 *C. japonica uncinata* **KURODA & HABE, 1949-d**

Washibana-watazoko-shirogasa

- Type locality: off Fukui prefecture (central Honshū, Japan Sea).
- Distribution: Japan Sea (Wakasa bay; off Echizen; Yotsuga-ura; Toyama bay; southwest off Sado island).
- Habitat: 50-300 m., on wood & debris.

G537 *C. subcompressa* **SCHEPMAN, 1908 in 1908-13**

(= *C. nipponica* KURODA & HABE, 1949-d)

Nippon-watazoko-shirogasa

- Type locality: 'Siboga' sta. 302, off western Timor, Indonesia: 10° 27.9' S., 123° 28.1' E., 216 m.
- Distribution: Izu islands (off Miyake island, 1080-1205 m. OKUTANI, 1968), Bōsō peninsula and southwards, P7-P5, Tosa bay, Japan Sea (off Niigata prefecture, J3-J1), EC5.
- Habitat: 50-930 m., on wood & debris.

G538 *C. pacifica* **KURODA & HABE, 1949-d**

Daiō-watazoko-shirogasa

Type locality: Tosa bay, southern Shikoku.

- Distribution: Tosa bay.
- Habitat: 100-200 m., on wood & debris.

G539 *C. tosaensis* **KURODA & HABE, 1949-d**

Kamuri-watazoko-shirogasa

- Type locality: Tosa bay, southern Shikoku.
- Distribution: Tosa bay, off Kyūshū (Gotō islands), Japan Sea (off Noto peninsula, 100-200 m.)
- Habitat: 100-300 m., on wood & debris.

G540 *C. tenuitesta* **HASEGAWA, 1997-a**

Usu-watazoko-shirogasa

- Type locality: Suruga bay, central Honshū: 5.1 km off Kumomi, 275-500 m.
- Distribution: Suruga bay (off Matsuzaki; west off Omaezaki HASEGAWA, 1997-a).
- Habitat: 275-500m, on wood.

G541 *C. surugaensis* **HASEGAWA, 1997-a**

Kinu-katsugi-watazoko-shirogasa

- Type locality: Suruga bay, central Honshū: off Hagachizaki, 345-422 m.
- Distribution: Suruga bay (off Heda; Sagami bay (off Odawara; off Misaki) (HASEGAWA, 1997-a)
- Habitat: 345-920m, on wood.

□ Genus *Coccopygia* **MARSHALL, 1986**

Type species: *Cocculina spinigera* JEFFREYS, 1883 (mt.) (= *Coccopygia* DALL, 1889 non REICHENBACH, 1882)

G542 *Coccopygia punctoradiata* (**KURODA & HABE, 1949-d**)

Misono-watazoko-shirogasa

- Type locality: off Kōchi prefecture, southern Shikoku.
- Distribution: central Honshū (Sagami bay, Suruga bay HASEGAWA, 1997-a) to Tosa bay.
- Habitat: 50-780 m., on wood & debris.
- Original genus: *Cocculina*.

G543 *Coccopygia okutanii* **HASEGAWA, 1997-a**

Koban-watazoko-shirogasa

- Type locality: Suruga bay, central Honshū: 5.1 km off Kumomi, 275-500 m.
- Distribution: Suruga bay, Kii strait (off Cape Esuzaki, 413 m. HASEGAWA, 1997-a).
- Habitat: 275-500 m., on wood.

Family **BATHYSCIADIIDAE DAUTZENBERG & FISCHER, 1900**

□ Genus *Bonus* **MOSKALEV, 1973**

Type species: *Bonus petrochenkoi* MOSKALEV, 1973 (o. d.)

G544 *B. petrochenkoi* **MOSKALEV, 1973**

Petoroshienko-shinkai-shirogasa

- Type locality: Kamchatka-Kuril basin, Sea of Ohkotsk.
- Distribution: off eastern Honshū, 8160-9580 m., by R. V. 'Albatross'.

Superfamily **LEPETELLOIDEA DALL, 1881**

Family **PSEUDOCOCCULINIDAE HICKMAN, 1983**

□ Genus *Pseudococculina* **SCHEPMAN, 1908 in 1908-13**

Type species: *Pseudococculina rugosoplicata* SCHEPMAN, 1908 (s. d. WENZ, 1938)

G545 *P. subcingulata* (**KURODA & HABE, 1949-d**)

Chidori-watazoko-shirogasa

- Type locality: Tosa bay, southern Shikoku.
- Distribution: Suruga bay (off Cape Omaezaki HASEGAWA, 1997-a); Tosa bay.
- Habitat: 100-200 m., on wood & debris.
- Original genus: *Cocculina*.

G546 *P. rosea* **HABE, 1952-b**

Otohime-gasa-gai

- Type locality: Tosa bay (southern Shikoku); ± 200m
- Distribution: Tosa bay.
- Habitat: 200-300 m., mud.

Family **COCCULINELLIDAE MOSKALEV, 1971**

□ Genus *Cocculinella* **THIELE, 1909**

Type species: *Acmaea minutissima* E. A. SMITH, 1904 (o. d.)

G547 *Co. minutissima* (**E. A. SMITH, 1904-a**)

Watazoko-hoso-shirogai (= Hoso-watazoko-shirogasa)

- Type locality: Andaman islands, 130-250 fms.
- Distribution: Suruga bay (Seno-umi, 120 m. HABE *et al.*, 1986); Andaman islands.
- Original genus: *Acmaea*.

Family **CHORISTELLIDAE BOUCHET & WARÉN, 1979**

(= CHORISTIDAE *auct. non* DAWSON, 1872)  
(Refs.: McLean, 1992)

□ Genus ***Choristella* BUSH, 1897**

Type species: *Choristella leptalea* BUSH, 1897 (o. d.)

G548 ***C. vitrea* (KURODA & HABE in KURODA *et al.*, 1971)**

Urodama-yadori-gai

- Type locality: Sagami bay, central Honshū.
- Distribution: off Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986), Sagami bay and westwards, Kii peninsula, western Kyūshū, P6-P5, EC5.
- Habitat: 100-350 m., in eggs of sharks and rays.
- Original genus: *Choristes*.

**Notes:** '*Choristes nipponica* OKUTANI, 1964-b (type locality: 'Sōyō-Maru' sta. T28, Sagami bay, central Honshū: 35° 01.0' N., 139° 19.6' E., 1360-1385m); also known from the Izu islands (OKUTANI, 1968) and '*C. mollis* OKUTANI, 1964-b (type locality: 'Sōyō-Maru' sta. B2, 26 miles off Miyake island, Izu islands: 34° 10.0' N., 140° 05.5' E., 1230-1350m) do not belong in *Choristella*; their generic placement is not certain at present (MCLEAN, 1992). *Choristes* CARPENTER in DAWSON, 1872 (= *Amauopsis*) is a genus in Naticidae: Ampullospirinae (see also BOUCHET & WARÉN, 1979).

Superorder **NERITOPSINA COX & KNIGHT, 1960**

Superorder **NERITOIDEA LAMARCK, 1809**

Family **NERITOPSIDAE GRAY, 1847**

□ Genus ***Neritopsis* GRATELOUP, 1832**

Type species: *Neritopsis moniliformis* GRATELOUP, 1832 (o. d.)

(= *Radula* GRAY, 1842)

G549 ***Neritopsis radula* (LINNAEUS, 1758)**

Amagai-modoki

- Type locality: none designated.
- Distribution: P11 to southern Ogasawara islands, P5-P4, Tosa bay, EC5, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific.
- Habitat: intertidal, on rocks and coral.
- Original genus: *Nerita*.

Family **NERITIDAE RAFINESQUE, 1815**

Subfamily **NERITINAE RAFINESQUE, 1815**

□ Genus ***Nerita* LINNAEUS, 1758**

Type species: *Nerita peloronta* LINNAEUS, 1758 (s. d. MONTFORT, 1810)

(= *Neritarius* DUMÉRIL, 1806; *Dontostoma* HERRMANNSEN, 1847; *Tenare* GRAY, 1858; *Peloronta* OKEN, 1815)

Subgenus ***Nerita s. str.***

G550 ***N. (N.) helicinoides* REEVE, 1855 in 1843-65**

(= *N. martensiana* PILSBRY, 1901; *N. helicinoides laevilabris* PILSBRY, 1895)

Ishidatami-amaobune (= Obi-suji-ishidatami-amaobune; Ishidatami-amagai; Ki-amagai)

- Type locality: none designated.
- Distribution: Izu islands and southwards, P6-P5, ECP4-ECP2, P2; Philippines.
- Habitat: intertidal on rubble.

G551 ***N. (N.) tristis* PILSBRY, 1901-b**

(= *N. helicinoides trista* *auct.*)

Hime-ishidatami-amaobune

- Type locality: 'Loo Choo Ids.' (Okinawa).
- Distribution: Hachijō island and southwards, Ogasawara islands, Kii peninsula, P6-P5, ECP4-ECP2; Taiwan.
- Habitat: intertidal on rubble.

**Notes:** originally ssp. of *N. helicinoides*.

G552 ***N. (N.) undata undata* LINNAEUS, 1758**

(= *N. undulata* GMELIN, 1791; *N. quadricolor* GMELIN, 1791; *N. striata* BURROW, 1815; *N. novaeguineae* LESSON, 1831; *N. chrysostoma* RÉCLUZ, 1841-a; *N. papuana* RÉCLUZ, 1841-a; *N. flammulata* RÉCLUZ, 1841-a; *N. leguillouana* RÉCLUZ, 1842; *N. longii* RÉCLUZ, 1842; *N. marmorata* HOMBRON & JACQUINOT, 1854; *N. savieana* REEVE, 1855; *N. oleagina* REEVE, 1855; *N. grisea* REEVE, 1855; *N. proxima* SOWERBY, 1903)

Arasuji-amagai (= Koshitaka-amagai; Yami-koshitaka-amagai; Maru-amagai)

- Type locality: 'in *O. Asiae ad Amboinam*' (Ambon island, Indonesia).
- Distribution: Amami islands and southwards, Ogasawara islands, ECP3-ECP2; Taiwan, Philippines, Indo-Pacific.
- Habitat: intertidal on rubble.

G553 ***N. (N.) undata spengleriana* RÉCLUZ, 1844-b**

Shiwa-nashi-koshitaka-amagai

- Type locality: 'Ilo-Ilo, isle of Panay; under stones at low water' (Philippines).
- Distribution: Okinawa (A. YAMAMOTO, 1989); Philippines, Mexico to Galapagos.
- Habitat: intertidal, rocks.

Subgenus ***Ritena* GRAY, 1858**

Type species: *Nerita plicata* LINNAEUS, 1758 (o. d.) (= *Pila* MÖRCH, 1852 *non* RÖDING, 1798; *Cymostyla* MARTENS, 1887)

G554 ***N. (R.) plicata* LINNAEUS, 1758**

(= *N. lactaria* LINNAEUS, 1771; *N. eburnea* RÖDING, 1798; *N. otaitensis* LESSON, 1831; *N. versicolor* QUOY & GAIMARD, 1834)

Kiba-amagai

- Type locality: none designated.
- Distribution: P11, Ogasawara islands and southwards, Kii peninsula, P6-P5, EC5, ECP4-ECP2; tropical Indo-Pacific.
- Habitat: intertidal on rocks.

**G555 *N. (R.) costata* GMELIN, 1791**

(= *N. grossa* BORN, 1780 *non* LINNAEUS, 1758; *N. scabricosta* DELESSERT, 1841 *non* LAMARCK, 1822 in 1815-22)

Futo-suji-amagai

- Type locality: 'ad insulas Indiae nicobaricus' (Nicobar islands, Indian Ocean).
- Distribution: P11, Ogasawara islands and southwards, Kii peninsula, P5, ECP4-ECP2; tropical Indo-Pacific.
- Habitat: intertidal on rocks.

**G556 *N. (R.) reticulata* KARSTEN, 1789**

(= *N. signata* MACLEAY in LAMARCK, 1822 in 1815-22)

Benitsuke-amagai (= Kuchibeni-amagai)

- Type locality: 'ignota' (unknown).
- Distribution: Amami islands and southwards, ECP3-ECP2; Taiwan, tropical western Pacific.
- Habitat: intertidal on rocks.

**Subgenus *Theliostyla* MÖRCH, 1852**

Type species: *Nerita albicilla* LINNAEUS, 1758 (s. d. KOBELT, 1879)

**G557 *N. (T.) albicilla* LINNAEUS, 1758**

(= *N. imperfecta* RÖDING, 1798; *N. venusta* DUNKER, 1844; *N. ustulata* SOWERBY II, 1883)

Amaobune

- Type locality: 'ad Hitoe' (Hitu, Ambon island, Moluccas (Maluku), Indonesia)
- Distribution: Ogasawara islands, Bōsō peninsula, northern Honshū to southern Kyūshū, Japan Sea (northern Yamaguchi prefecture); Korea, tropical Indo-Pacific, western Pacific.
- Habitat: intertidal on rubble.

**G558 *N. (T.) squamulata* LE GUILLOU, 1841**

(= *N. modesta* HOMBON & JAQUINOT, 1854; *N. hindsii* RÉCLUZ *sensu* IWAKAWA, 1919; *N. chamaeleon sensu* KURODA, 1928, KURODA & HABE, 1952-a)

Maru-amaobune (= Sujimaki-amagai)

- Type locality: none designated.
- Distribution: P11, Ogasawara islands and southwards, Amami islands, ECP3-ECP2; Taiwan, southern China, Indo-Pacific.
- Habitat: intertidal in inner bays, gravel.

**G559 *N. (T.) chamaeleon* LINNAEUS, 1758**

(= *N. bizonalis* LAMARCK, 1816; *N. laevilirata* SOWERBY III, 1914)

Ōmaru-amaobune (= Ō-amaobune; Nise-maru-amaobune)

- Type locality: 'in *O. Asiae ad Bandam*' (Banda, Indonesia).
- Distribution: Okinawa and southwards; Taiwan, Philippines, western Pacific, Australia.
- Habitat: intertidal on rocks.

**G560 *Ne. (T.) exuvia* LINNAEUS, 1758**

Maki-mizo-amaobune

- Type locality: 'in *O. Americae & Asiae*' (American and Asian seas).
- Distribution: Okinawa and southwards, ECP2; Taiwan, Indo-Pacific.
- Habitat: intertidal on rocks or mangroves.

**G561 *N. (T.) planospira* ANTON, 1838**

(= *N. atropurpurea* RÖDING, 1841; *N. angularis* HOMBON & JAQUINOT, 1854)

Hiramaki-amaobune

- Type locality: none designated.
- Distribution: Okinawa and southwards; Taiwan, tropical Indo-Pacific.
- Habitat: intertidal on mangroves.

**G562 *N. (T.) balteata* REEVE, 1855 in 1843-65**

(= *N. lineata* GMELIN, 1791 *non* MÜLLER, 1774; *N. articulata* GOULD, 1847)

Itomaki-amagai

- Type locality: none designated.
- Distribution: Yaeyama islands and southwards; Taiwan, Indo-western Pacific.
- Habitat: intertidal on rocks.

**G563 *N. (T.) ocellata* LE GUILLOU, 1841**

Ō-amagai

- Type locality: 'Sandal-bay'.
- Distribution: P11, Ogasawara islands and southwards, Tanegashima & Yakushima, ECP4-ECP2; Taiwan.
- Habitat: intertidal on rubble.

**Subgenus *Amphinerita* MARTENS, 1887**

Type species: *Nerita umlaasiana* KRAUSS, 1848 (s. d. BAKER, 1923)

(= *Odontostoma* MÖRCH, 1852)

**G564 *N. (A.) polita polita* LINNAEUS, 1758**

(= *N. bifasciata* GMELIN, 1791; *N. litterata* GMELIN, 1791; *N. doreyana* QUOY & GAIMARD, 1834; *N. vitiensis* HOMBON & JAQUINOT, 1854)

Nishiki-amaobune

- Type locality: 'in *O. Asiae*' (Asian seas).
- Distribution: Ogasawara islands and southwards, Kii peninsula, P5, ECP4-ECP2; tropical Indo-Pacific.

- Habitat: intertidal on rocks among sand pockets.

G565 *N. (A.) polita rumphii* RÉCLUZ, 1841-b

Kesuji-amagai (= Nuri-tsuya-amaobune)

- Type locality: 'Amboine' (Ambon island, Indonesia, after Rumphius), 'La Nouvelle-Hollande, au port du Roi Georges' (King George sound, Western Australia, after Quoy & Gaimard), 'l'île Maria et les îles St-Pierre et St-François' (St. Francis islands, off Ceduna, South Australia).
- Distribution: Amami islands and southwards, ECP3-ECP2; southern China, southeast Asia, northern Australia.
- Habitat: intertidal on rocks.

G566 *N. (A.) polita antiquata* RÉCLUZ, 1841-b

(= *N. australis* WOOD, 1815 non GMELIN, 1791)

Chirimen-amaobune

- Type locality: 'Les côtes des îles Philippines' (coasts of the Philippines).
- Distribution: Amami islands and southwards, ECP3-ECP2; Philippines, southeast Asia, northern Australia.
- Habitat: intertidal on rocks.

**Notes:** Kuro-suji-koshitaka-amagai *N. (A.) affinis* REEVE, 1855 in 1843-65 (type locality: none designated) is reported from the Amami islands (Tsuchihama YUKITA, pers. comm), but the present authors have been unable to confirm this distribution.

G567 *N. (A.) incerta* BUSCH in PHILIPPI, 1844 in 1842-51

Enameru-amagai

- Type locality: 'Java' (Indonesia).
- Distribution: P11, Ogasawara islands and southwards, Amami islands, ECP3-ECP2; Taiwan, Philippines.
- Habitat: intertidal on rocks.

Subgenus *Heminerita* MARTENS, 1887

Type species: *Nerita pica* GOULD, 1859 non GMELIN, 1791 (o. d.; = *N. japonica* DUNKER, 1860)

G568 *N. (H.) japonica* DUNKER, 1860

(= *N. pica* GOULD, 1859 non GMELIN, 1791)

Amagai

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, Seto inland sea, Japan Sea (Oga peninsula, J2-J1), EC5; southwestern Korea.
- Habitat: offshore among gravel, inshore under rubble.

G569 *N. (H.) insculpta* RÉCLUZ, 1841-b

(= *N. (H.) picea sensu* A. YAMAMOTO, 1989)

Ryūkyū-amagai

- Type locality: 'Timor' (Indonesia).
- Distribution: P11, Ogasawara islands and southwards, Tokara islands, ECP4-ECP2; Taiwan.

- Habitat: intertidal on rubble.

- Original genus: *Nerita*.

□ Genus *Puperita* GRAY, 1857

Type species: *Nerita pupa* LINNAEUS, 1758 (o. d.)

G570 *P. bensoni* (RÉCLUZ, 1850-b)

(= *Neritina reticulata* SOWERBY I, 1833 non CRISTOFORI & JAN, 1832)

Ukon-amagai

- Type locality: 'Lord Hood's Island' (probably Marutea: 21° 30' S., 135° 33' W.)
- Distribution: Amami islands and southwards, P11, Ogasawara islands, ECP3-ECP2; Taiwan, Guam.
- Habitat: intertidal on rubble.
- Original genus: *Nerita*.

□ Genus *Neritina* LAMARCK, 1816-b

Type species: *Nerita pulligera* LINNAEUS, 1767 (ICZN op. 119, 1931)

(= *Laphrostoma* RAFINESQUE, 1815; *Lamphrostoma auct.*; *Lamprostoma auct. non* SWAINSON, 1840; *Chernites* GISTL, 1848; *Neritella* GRAY, 1848; *Clypeolum* RÉCLUZ, 1850 non 1842; *Labilia* SCUDDER, 1882; *Onchina* SCUDDER, 1882)

Subgenus *Neritina s. str.*

G571 *Neritina (N.) pulligera* (LINNAEUS, 1767)

Kabaguchi-kanoko

- Type locality: 'in Indiae fluviiis' (rivers of India).
- Distribution: P11, Ogasawara islands and southwards, Amami islands, ECP3-ECP2; Taiwan, southeast Asia.
- Habitat: brackish water, on rocks or mangroves.
- Original genus: *Nerita*.

G572 *Neritina (N.) petiti* (RÉCLUZ, 1841-b)

Akaguchi-kanoko

- Type locality: 'Saint-Domingue' (Caribbean; probably erroneous. Récluz noted that the specimen he examined had the operculum of another species (*Nerita deshayesii* RÉCLUZ, 1841-b) from Realejo de Semblas, California).
- Distribution: Okinawa and southwards; Taiwan, Indo-Pacific.
- Habitat: brackish to fresh water.
- Original genus: *Nerita*.

Subgenus *Vittoidea* BAKER, 1923

Type species: *Neritina variegata* LESSON, 1831 (o. d.) (= *Vittoidea sensu* WENZ, 1938, *err. pro -oida*)

G573 *N. (Vittoidea) variegata* LESSON, 1831 in 1826-32

Murakumo-kanoko

- Type locality: 'la Nouvelle-Irlande' (New Ireland, Papua New Guinea).
- Distribution: Amami islands and southwards, ECP3-ECP2; Indo-Pacific.

- Habitat: brackish water.

Subgenus *Vittina* **BAKER, 1923**

Type species: *Neritina roissyana* RÉCLUZ, 1841 (o. d.)

G574 *N. (Vittina) plumbea* **SOWERBY II, 1849 in 1842-87**

Donguri-kanoko

- Type locality: 'Island of Bohal (Bohol), Philippines'.
- Distribution: Amami islands and southwards, ECP3-ECP2; Philippines, southeast Asia.
- Habitat: brackish water.

G575 *N. (Vittina) turruta* **(GMELIN, 1791)**

(= *N. (V.) turruta cumingiana sensu* KURODA, 1928-c; S. HIRASE, 1934)

Shima-kanoko

- Type locality: 'in insularum antillarum' (Antilles; erroneous).
- Distribution: Amami islands and southwards, ECP3-ECP2; Taiwan, southwestern Pacific.
- Habitat: intertidal among mangroves.
- Original genus: *Nerita*.

G576 *N. (Vittina) waigiensis* **(LESSON, 1831 in 1826-32)**

(= *Nerita communis* QUOY & GAIMARD, 1832)

Goshiki-kanoko

- Type locality: 'l'île de Waigiou' (Waigeo, northwestern Papua New Guinea).
- Distribution: Miyakojima (Okinawa group) and southwards; Taiwan, Indo-Pacific.
- Habitat: brackish water.

G577 *N. (Vittina) paralella* **(RÖDING, 1798)**

(= *Nerita coromandelica* SOWERBY, 1832; *N. ziczac auct. non* LAMARCK, 1822 in 1815-22; *Neritina (Vittina) coromandelica var. interstitialis sensu* KURODA, 1928-c)

Inazuma-kanoko

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2; Indo-Pacific.
- Habitat: brackish water.

Subgenus *Dostia* **GRAY, 1842**

Type species: *Nerita crepidularia* LAMARCK, 1822 (o. d.);

= *Nerita violacea* GMELIN, 1791)

(= *Mitrula* RÉCLUZ, 1850 non GRAY, 1821)

G578 *N. (D.) violacea* **(GMELIN, 1791)**

(= *Neritina crepidularia* LAMARCK, 1822 in 1815-22)

Hiro-kuchi-kanoko

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, Seto inland sea and westwards, P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2; southern China, Indo-Pacific.

- Habitat: brackish water among mangroves.

- Original genus: *Nerita*.

Subgenus *Neripteron* **LESSON, 1831 in 1826-32**

Type species: *Neripteron taitensis* LESSON, 1831 (s. d. BAKER, 1923)

(= *Neripteron sensu* FISCHER, 1869, *err. pro Neript-*)

G579 *N. (Neripteron) auriculata* **LAMARCK, 1816-b**

Tsubasa-kanoko

- Type locality: none designated.
- Distribution: Okinawa (HABE, 1980-b) and southwards, ECP2, P2; southeast Asia, southwestern Pacific.
- Habitat: brackish water.

G580 *N. (Neripteron) subauriculata* **RÉCLUZ, 1843-c**

Furisode-kanoko

- Type locality: 'Jimamailan, isle of Negros; on the Nepa Palm trunks in brackish water' (Philippines).
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, Indo-western Pacific.
- Habitat: brackish water.

G581 *N. (Neripteron) rubicunda* **MARTENS, 1879 in 1877-89**

- Type locality: Kapuas river, Borneo, near Pontianak; on floating wood.

- Distribution: Okinawa islands and southwards, ECP2; southeast Asia.

- Habitat: brackish water.

□ Genus *Neritodryas* **MARTENS, 1896**

Type species: *Nerita cornea* LINNAEUS, 1758 (s. d.

BAKER, 1923)

G582 *Neritodryas subsulcata* **(SOWERBY II, 1836 in 1832-41)**

Oka-ishimaki

- Type locality: none designated.
- Distribution: Yonakuni island and southwards, Iriomote island; Indo-Pacific.
- Habitat: intertidal on mangroves.
- Original genus: *Neritina*.

G583 *Neritodryas dubia* **(GMELIN, 1791)**

Shima-oka-ishimaki

- Type locality: none designated.
- Distribution: Okinawa islands and southwards; western Pacific.
- Habitat: intertidal in brackish water.
- Original genus: *Nerita*.

□ Genus *Clithon* **MONTFORT, 1810 in 1808-10**

Type species: *Nerita corona* LINNAEUS, 1758 (o. d.)

(= *Clithon* LESSON, 1830; *Corona* RÉCLUZ, 1850 non ALBERS, 1850)

G584 *C. corona* **(LINNAEUS, 1758)**

(= *Neritina brevispina* LAMARCK, 1822 in 1815-22; *Cliton angulosa* RÉCLUZ, 1842; *Theodoxus (Clithon) corona* var. *obscurata* KURODA, 1928-c; *C. brevispina* KURODA, 1960)

Iga-kanoko (= Taiwan-iga-kanoko)

- Type locality: 'in Asiae fluvii' (rivers of Asia).
- Distribution: P11, Ogasawara islands and southwards, southern Kyūshū (Ibusuki, Kagoshima prefecture), Amami islands, ECP3-ECP2; tropical western Pacific.
- Habitat: brackish water.
- Original genus: *Nerita*.

**G585 *C. coronata* LEACH, 1815 in LEACH & NODDER, 1814-17**

(= *Cliton longispina* RÉCLUZ, 1841; *Theodoxus (Clithon) corona sensu* SHIKAMA & HORIKOSHI, 1963)

Hari-kanoko (= Hari-naga-kanoko)

- Type locality: none designated.
- Distribution: Amami islands and southwards; western Pacific.
- Habitat: brackish to fresh water, rocks.

**G586 *C. retropictus* (MARTENS, 1879 in 1877-89)**

(= *Neritina nordquisti* WESTERLUND, 1887)

Ishimaki (= Ogasawara-kanoko)

- Type locality: Nagasaki, in lower reaches of rivers on stones.
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, Japan Sea (Noto peninsula, J3-J2), EC5, ECP4-ECP2; southern China.
- Habitat: brackish to fresh water.
- Original genus: *Neritina*.

**G587 *C. faba* (SOWERBY II, 1836 in 1832-41)**

(= *Neritina sowerbiana* RÉCLUZ, 1842)

Kanoko-gai (= Arihei-kanoko)

- Type locality: Singapore.
- Distribution: Amami islands and southwards, ECP3-ECP2; southeast Asia.
- Habitat: brackish water.
- Original genus: *Neritina*.

□ Genus ***Theodoxus* MONTFORT, 1810 in 1808-10**

Type species: *Theodoxus lutetianus* MONTFORT, 1810 (o. d.; = *Nerita fluviatilis* LINNAEUS, 1758: ICZN op. 335, 1955)

(= *Theodoxis* MONTFORT, 1810 *err. pro -xus*; *Elea* FITZINGER, 1833; *Neritoglobus* KOBELT, 1871; *Theodoxia* BOURGUIGNAT, 1877; *Theodora*, *Theodorus auct.*)

Subgenus *Pictoneritina* IREDALE, 1936

Type species: *Neritina oualaniensis* LESSON, 1831 (o. d.)

**G588 *Th. (P.) oualaniensis* (LESSON, 1831 in 1826-32)**

Hime-kanoko

• Type locality: 'les eaux douces de l'île de Oualan' (Mauritania, northwest Africa, Atlantic Ocean; in fresh water).

- Distribution: Izu peninsula and southwards, P6-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2; southern China, Indo-Pacific.
- Habitat: in bays on seaweed.
- Original genus: *Neritina*.

**G589 *Th. (P.) chlorostoma* (BRODERIP & SOWERBY, 1832)**

Hana-gasumi-kanoko

- Type locality: 'ad Insulam Tahitien' (Tahiti).
- Distribution: northern Yamaguchi prefecture (FUKUDA, 1996), Amami islands and southwards, ECP3-ECP2, Ogasawara islands; southeast Asia.
- Habitat: brackish water.
- Original genus: *Neritina*.

**G590 *Th. (P.) paulucciana* (GASSIES, 1870 in 1867-70)**

(= *Smaragdia (Smaragdella) sowerbiana*

MONTROUZIER *sensu* KURODA, 1960)

Kinran-kanoko

- Type locality: New Caledonia.
- Distribution: Hamana-ko (lagoon, Shizuoka prefecture), Ryūkyū islands (Miyako; Ishigaki; Iriomote) (FUKUDA, 1996); Philippines, New Caledonia.
- Habitat: intertidal in bays, on sand and eelgrass.
- Original genus: *Neritina*.

Subfamily **SMARAGDIINAE BAKER, 1923**

□ Genus ***Smaragdia* ISSEL, 1869**

Type species: *Nerita viridis* LINNAEUS, 1758 (s. d. KOBELT, 1879)

(= *Gaillardotia* BOURGUIGNAT, 1877)

**G591 *S. rangiana* (RÉCLUZ, 1841-b)**

(= *Neritina rangiana puella* GOULD *sensu* IWAKAWA, 1919; *S. (Smaragdella) rangiana puella sensu* KURODA, 1928-c, S. HIRASE, 1934; *S. (Smaragdistia) rangiana puella sensu* KURODA, 1960, HABA, 1964)

Kusa-iro-kanoko

- Type locality: 'Madagascar, sous les pierres baignees par l'eau de la mer' (Madagascar, under piers bathed in sea water).
- Distribution: Amami islands and southwards, ECP3-ECP2; tropical Indo-Pacific.
- Habitat: intertidal on rubble.
- Original genus: *Nerita*.

**G592 *S. sowerbiana* (MONTROUZIER in SOUVERBIE & MONTROUZIER, 1863 in 1859-79)**

Remon-kanoko

- Type locality: New Caledonia.
- Distribution: Bōsō peninsula and southwards, P7-P5,

Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2; Philippines, New Caledonia.

• Habitat: intertidal, *Zostera* beds.

□ Genus *Pisulina* G. & H. NEVILL, 1869

Type species: *Pisulina adamsiana* G. & H. NEVILL, 1869 (o. d.)

G594 *P. adamsiana* G. & H. NEVILL, 1869

Shiratama-amagai

- Type locality: Ceylon (Sri Lanka).
- Distribution: Ogasawara islands and southwards, Kii peninsula, P5, EC5, ECP4-ECP2; Indo-Pacific.
- Habitat: intertidal on rubble.

Notes: see HINOIDE & HABE, 1991.

Subfamily **NERITILIIINAE BAKER, 1923**

□ Genus *Neritilia* MARTENS, 1879

Type species: *Neritina rubida* PEASE, 1865

G595 *N. rubida* (PEASE, 1865)

Kohaku-kanoko

- Type locality: Tahiti.
- Distribution: Okinawa prefecture (Yonaguni island KUBO & KOIKE, 1992); Indonesia (Java; Sulawesi), Thailand, Papua New Guinea, Vanuatu, Fiji, Samoa, Marquesas.

• Habitat: brackish water, on rocks or mangroves.

• Original genus: *Neritina*.

Family **PHENACOLEPADIDAE THIELE, 1929**

(= SHINKAILEPADIDAE OKUTANI, SAITŌ & HASHIMOTO, 1989)

□ Genus *Phenacolepas* PILSBRY, 1891

Type species: *Scutella crenulata* BRODERIP, 1834 (o. d.)

(= *Scutella* BRODERIP, 1834 non LAMARCK, 1816-b;

*Scutellina* GRAY, 1847 non AGASSIZ, 1841;

*Plesiothyreus* COSSMANN, 1888; *Scutulina*

COSSMANN, 1912)

G596 *P. crenulatus* (BRODERIP, 1834-c)

(= *Phenacolepas mirabilis* SOWERBY, 1910; *Capulus radiata sensu* IWAKAWA, 1919)

Yuki-suzume (= Hira-miyako-dori)

- Type locality: 'ad insulam Anaan' (Chain Island; now Annaa island, Tuamotos), on sand beach.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2; southeast Asia.
- Habitat: intertidal under rubble.
- Original genus: *Scutella*.

G597 *P. galathea* (LAMARCK, 1819 in 1815-22)

Okinawa-miyako-dori

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-

ECP2.

• Habitat: intertidal on rubble.

• Original genus: *Patella*.

G598 *P. planata* HABE, 1961-a

Hira-yuki-suzume

• Type locality: Ko-orimoto, Kagoshima City, southern Kyūshū (fossil).

• Distribution: Kagoshima bay.

G599 *P. nakamigawai* Is. TAKI, 1954-a

Hachijō-yuki-suzume

• Type locality: Ishizumisaki (Cape), Sueyoshi district, Hachijō island (Izu islands).

• Distribution: Hachijō island.

• Habitat: intertidal on rocks (?).

G600 *P. compressa* (PEASE, 1868-c)

Hoso-miyako-dori

• Type locality: Tahiti.

• Distribution: Hachijō islands, Okinawa; tropical Pacific to Tahiti.

• Habitat: intertidal, rubble.

• Original genus: *Scutellina*.

G601 *P. unguiformis* (GOULD, 1859 in 1859-61)

Tsumenari-miyako-dori

• Type locality: 'Kagosima' (Kagoshima, southern Kyūshū).

• Distribution: Sagami bay and southwards, P6-P5, Japan Sea (Oga peninsula, J3-J1), EC5.

• Habitat: intertidal to 20 m. under rubble.

• Original genus: *Scutellina*.

G602 *P. newtoni* (SOWERBY III, 1894-b)

Kagome-miyako-dori

• Type locality: Hong Kong harbour, 40-60 ft.

• Distribution: Sagami bay and southwards, P6-P5, Japan Sea (J1), EC5; southern China.

• Habitat: intertidal to 150 m., rubble.

• Original genus: *Plesiothyreus*.

□ Genus *Shinkailepas* OKUTANI, SAITŌ & HASHIMOTO, 1989

Type species: *Shinkailepas kaikatensis* OKUTANI, SAITŌ & HASHIMOTO, 1989 (o. d.)

G603 *S. kaikatensis* OKUTANI, SAITŌ & HASHIMOTO, 1989

Shinkai-fune-amagai

- Type locality: Kaikata seamount near Ogasawara islands; 26° 42.32' N., 141° 04.60' E., 470 m.
- Distribution: recorded only from type locality.

□ Genus *Cinnalepeta* IREDALE, 1929

Type species: *Patella cinnamomea* GOULD, 1848 (o. d.)

G604 *C. pulchella* (LISCHKE, 1871 in 1868-73)

Miyako-dori



- Type locality: 'Nagasaki' (western Kyūshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J3-J1), EC5.
- Habitat: intertidal in bays on gravel.
- Original genus: *Scutellina*.

G605 *C. scobinata* (GOULD, 1859 in 1859-61)

- Type locality: 'Ousima' (Amami Ōshima).
- Distribution: recorded only from type locality.
- Habitat: intertidal on rubble.
- Original genus: *Scutellina*.

**Notes:** this species is listed in KURODA, 1928-c and KURODA & HABE, 1952-a, but as no locality data is given in either work it is not clear whether or not these are simply references to the type locality.

□ Genus *Notocrater* FINLAY, 1926

Type species: *Cocculina craticulata* SUTER, 1908 (o. d.) (= *Punctolepeta* HABE, 1958-f)

G606 *N. pustulosa* (THIELE, 1925)

(= *Punctolepeta minuta* HABE, 1958-f)

Amime-miyako-dori

- Type locality: Japan.
- Distribution: off Kōchi prefecture (southern Shikoku), central Honshū (off Chōshi, Chiba prefecture; Suruga bay HASEGAWA, 1997-a).
- Habitat: 300-400 m., on wood and debris.
- Original genus: *Cocculina*.

□ Genus *Copulabyssia* HASZPRUNAR, 1988

Type species: *Cocculina corrugata* JEFFREYS, 1883 (o. d.)

G607 *C. similis* HASEGAWA, 1997-a

Maru-chidori-watazoko-shirogasa

- Type locality: Suruga bay, central Honshū: off Toi, 430-710 m.
- Distribution: Suruga bay (off Cape Omaezaki; off Heda HASEGAWA, 1997-a).
- Habitat: 430-710 m., on wood.

Superorder CAENOGASTROPODA COX, 1959

Order SORBEOCONCHA PONDER & LINDBERG, 1997

(Refs.: Ponder & Lindberg, 1995; 1996; Ponder & Waren, 1988)

Superfamily LOXONEMATOIDEA KOKEN, 1889

Family ABYSSOCHRYSIDAE TOMLIN, 1927

□ Genus *Abyssochrysos* TOMLIN, 1927

Type species: *Abyssochrysos melanooides* TOMLIN, 1927

G608 *A. melvilli* (SCHEPMAN, 1909 in 1908-13)

(= *Argyropeza kuroharai* HABE MS *sensu* HIGO, 1973 *nom. nud.*)

Merubiru-toge-nina

- Type locality: 'Siboga' sta. 102: 06° 4.1' N., 120° 44' E., 'Sulu Sea. 535 m. Fine, yellow sand'.
- Distribution: off Kōchi prefecture (southern Shikoku); southern Philippines, Indonesia.
- Original genus: *Argyropeza*.

□ Genus *Argyropeza* MELVILL & STANDEN, 1901

Type species: *Argyropeza divina* MELVILL & STANDEN, 1901 (mt.)

G609 *A. izekiana* KURODA, 1949-b

(= *A. izekii sensu* HABE, 1964, HABE *et al.*, 1986)

Izeki-toge-nina

- Type locality: Tosa bay, southern Shikoku; 100 fms.
- Distribution: Bōsō peninsula (Tateyama bay TAMURA & OKUTANI, 1989) and southwards, Enshū-nada, southern Shikoku, Japan Sea (off Sado island), western Kyūshū; Australia, tropical Indo-western Pacific.
- Habitat: 90-300 m., mud.

G610 *A. verecunda* (MELVILL & STANDEN, 1903)

(= *Cerithium pervicax* MELVILL, 1904)

Yoretsu-toge-nina

- Type locality: Gulf of Oman: 24° 58' N., 56° 54' E., 156 fms.
- Distribution: Tateyama bay (central Honshū TAMURA & OKUTANI, 1989); Gulf of Oman, Andaman islands, Indian Ocean, northern Australia.
- Habitat: 39-285 m.
- Original genus: *Cerithium*.

Family PROVANNIDAE WARÉN & PONDER, 1991

□ Genus *Alviniconcha* OKUTANI & ŌTA, 1988

Type species: *Alviniconcha hessleri* OKUTANI & ŌTA, 1988 (o. d.)

G611 *A. hessleri* OKUTANI & ŌTA, 1988

Arubin-gai

- Type locality: 'Alice Springs' thermal vent in Mariana basin: 18° 12.59' N., 144° 42.43' E., 3630-3655 m.
- Distribution: recorded only from type locality.

□ Genus *Provanna* DALL, 1918

Type species: *?Trichotropis (Provanna) lomana* DALL, 1918 (mt.)

G612 *P. nassariaeformis* OKUTANI, 1990

Mushiro-hai-kaburi-nina

- Type locality: 'Snail Pit' hydrothermal vent area: 18° 10.95' N., 144° 43.2' E., 3670-3680 m.
- Distribution: recorded only from type locality.

G613 *P. marianaensis* OKUTANI, 1990

Mariana-hai-kaburi-nina

- Type locality: 'Snail Pit' hydrothermal vent area: 18° 10.95' N., 144° 43.2' E., 3670-3680 m.
- Distribution: recorded only from type locality.

G614 *P. glabra* OKUTANI, TSUCHIDA & FUJIKURA, 1992

Sagami-hai-kaburi-nina

- Type locality: off Hatsushima, Sagami bay, central Honshū: 35° 00' N., 139° 13.5' E., 1100-1200 m.
- Distribution: Sagami bay, Okinawa (Minami Ensei Knoll; Izena Hollow; Iheya ridge, 700-1350 m.)

Superfamily CERITHIOIDEA FÉRUSSAC, 1819

Family PLANAXIDAE GRAY, 1850

Subfamily PLANAXINAE GRAY, 1850

□ Genus *Planaxis* LAMARCK, 1822 in 1815-22

Type species: *Planaxis sulcatus* BORN, 1780 (s. d. CHILDREN, 1823)

(= *Proplanaxis* THIELE, 1929)

G615 *P. sulcatus* (BORN, 1780)

(= *Buccinum pyramidalis* GMELIN, 1791; *Planaxis undulata* LAMARCK, 1822 in 1815-22; *P. buccinoides* DESHAYES, 1828)

Gomafu-nina (= Uzura-tama-kibi-modoki)

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: subtidal on rubble.
- Original genus: *Buccinum*.

G616 *P. suturalis* E. A. SMITH, 1872

Maki-mizo-nina

- Type locality: 'Chinese Seas'.
- Distribution: Amami Ōshima (Tsuchi-hama HABE, 1981-b) and southwards, Okinawa, Ogasawara islands (Hahajima FUKUDA, 1993); southern China.
- Habitat: intertidal, rocks.

□ Genus *Angiola* DALL, 1926-a

Type species: *Angiola perscelida* DALL, 1926 (o. d.; = *Planaxis longispira* E. A. SMITH, 1872)

G617 *A. longispira* (E. A. SMITH, 1872)

(= *A. perscelida* DALL, 1926)

Koshitaka-yokosuji-nina (= Kehada-yokosuji-nina)

- Type locality: 'Chinese Seas'.
- Distribution: Suruga bay and southwards, P6-P5, ECP4-ECP2, P2.
- Habitat: subtidal on rubble.
- Original genus: *Planaxis*.

G618 *A. zonata* (A. ADAMS, 1853-j)

(= *Planaxis labiosa* A. ADAMS, 1853; *P. inepta* GOULD, 1861; *P. plumbea* PEASE, 1861; *P. striatulus* PHILIPPI, MARTENS & LANGKAVEL, 1871; *P. lineatus* var. *labiosus* sensu TRYON, 1887; *P. (Angiola) virgatus* SMITH sensu KURODA, 1941; *P. strigatus* SOWERBY sensu KURODA, 1960)

Yokosuji-tama-kibi-modoki

- Type locality: 'Calapan, Philippines'.
- Distribution: Izu peninsula and southwards, Ogasawara islands, P6-P5, EC5, ECP4-ECP2; western and central Pacific.
- Habitat: subtidal on coral or rocks.
- Original genus: *Planaxis*.

□ Genus *Supplanaxis* THIELE, 1929

Type species: *Planaxis nucleus* 'LAMARCK' (o. d.; = ? *Planaxis nucleus* DESHAYES, 1828)

G619 *S. niger* (QUOY & GAIMARD, 1833 in 1832-35)

(= *Planaxis acutus* KRAUSS, 1848; *P. abbreviatus* PEASE, 1865; *P. hanleyi* E. A. SMITH, 1872; *P. similis* E. A. SMITH, 1872; *P. abbreviatus ogasawaranus* PILSBRY, 1905)

- Type locality: 'au havre Carteret de la Nouvelle-Irlande' (Kilinaiaiu (Carteret) island, off Bougainville, Solomon islands).
- Distribution: Izu peninsula and southwards, P11, Ogasawara islands, Kii peninsula, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: upper intertidal, rubble.
- Original genus: *Planaxa* (sic).

□ Genus *Fissilabia* MACGILLIVRAY, 1836

(= *Leucostoma* SWAINSON, 1840 non MEIGEN, 1803; *Fissilabria* sensu BROWN in GRAY, 1847 *err. pro -labia*; *Fissilabra* sensu BROWN in PAETEL, 1875 *err. pro -labia*)

G620 *F. decollata* (QUOY & GAIMARD, 1833 in 1832-35)

Koge-nina

- Type locality: 'le havre de Dorey, a la Nouvelle-Guinée' (Dorey harbour, Papua New Guinea).
- Distribution: Amami islands and southwards, ECP3, ECP2, P2; Philippines, Indo-western Pacific.
- Habitat: intertidal, rubble.
- Original genus: *Planaxa* (sic).

Subfamily FOSSARINAE TROSCHER, 1861

□ Genus *Fossarus* PHILIPPI, 1841

Type species: *Fossarus adansoni* PHILIPPI, 1841 (o. d.; = *Turbo ambiguus* LINNAEUS, 1767)

(= *Maravigna* ARADAS & MAGGIORE, 1841)

G621 *F. trochlearis* (A. ADAMS, 1854 in H. & A. ADAMS, 1853-58)

(= *F. trochleris* (sic) sensu HIGO & GOTŌ, 1993 *err. pro -learis*)

Toride-nina

- Type locality: 'Calapan, in the Philippines'.
- Distribution: Sagami bay and southwards, Ogasawara islands, P6-P5, ECP4-ECP2; Philippines, western Pacific.
- Habitat: intertidal, among byssus of *Mytilisepta*.

- Original genus: *Fossar*.

G622 *F. garretti* PEASE, 1868-d

(= *Adeorbis costata* GARRETT, 1857 non BROCCHI, 1814)

Futo-une-toride-nina

- Type locality: Hawaii.
- Distribution: Kii peninsula (off Kushimoto), Amami Ōshima (Kasari; Seto-uchi) (EKAWA, 1993-b); Hawaii.

G623 *F. japonicus* (A. ADAMS, 1861-d)

Yamato-toride-nina

- Type locality: Tsushima island, western Japan Sea; 16-26 fms.
- Distribution: recorded only from type locality.
- Original genus: *Fossar*.

**Notes:** another unnamed species is frequently confused with *F. japonicus* (KURODA & HABE, 1952-a; HIGO, 1973; HIGO & GOTŌ, 1993; FUKUDA, 1993).

G624 *F. tornatilis* (GOULD, 1859 in 1859-61)

(= *Fossar persoluta* NEVILL, 1878; *F. reticulata* var. *sensu* KIRA, 1946)

Hatsuka-nezumi-gai

- Type locality: Hong Kong.
- Distribution: Bōsō peninsula (Tateyama bay TAMURA & OKUTANI, 1989) and southwards, Kii peninsula (Tanabe bay; Kii-Ōshima), Okayama prefecture (Mutsukuchi-jima), Kyūshū (Ariake inland sea), Hokkaidō; Primoriye region (Japan Sea coast of Russia).
- Habitat: intertidal among rocks.
- Original genus: *Fossar*.

G625 *F. yamamotoi* HABE, 1978-a

Naga-hatsuka-nezumi

- Type locality: Fukue bay, Gotō islands, western Kyūshū.
- Distribution: Tōkyō bay (Nakanose), Bōsō peninsula (Tateyama bay TAMURA & OKUTANI, 1989), Suruga bay (off Cape Omae), Gotō islands.
- Habitat: intertidal to 50 m., rocks.

G626 *F. indicus* (E. A. SMITH, 1894-b)

Watazoko-hatsuka-nezumi

- Type locality: off Madras, India: 16° 01' N., 81° 25' E., 410 fms.
- Distribution: southern Shikoku; India.
- Original genus: *Lacuna*.

Family **MODULIDAE FISCHER, 1884**

□ Genus *Modulus* GRAY, 1842

Type species: *Trochus modulus* LINNAEUS, 1758 (o. d.) (= *Haplodon* AGASSIZ, 1846 non WAGLER, 1830; *Turbinopsis* CONRAD, 1860; *Pseudotrochus* HEILPRIN, 1887 non HERRMANNSEN, 1847)

G627 *M. tectum* (GMELIN, 1791)

(= *M. candidus* PETIT de la SAUSSAYE, 1853)

Katabe-damashi

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to 20 m., on seaweed among rocks and coral.
- Original genus: *Trochus*.

Family **CERITHIIDAE FLEMING, 1822**

Subfamily **CERITHIINAE FLEMING, 1822**

(Refs.: Houbriek, 1978; 1985; 1992)

□ Genus *Cerithium* BRUGUIÈRE, 1792 in 1789-1816

Type species: *Cerithium adansonii* BRUGUIÈRE, 1792 in 1789-1816 (s. d. MELVILL: ICZN op. 1109, 1978; = *Cerithium nodulosum* BRUGUIÈRE, 1792 in 1789-1816) (= *Contumax* HEDLEY, 1899)

(Refs.: Houbriek, 1992)

Subgenus *Cerithium* s. str.

G628 *C. (C.) nodulosum* BRUGUIÈRE, 1792 in 1789-1816

(= *Murex aluco* BORN, 1780 (*pars*) non LINNAEUS, 1758; *Cerithium curvirostrata* PERRY, 1811; *Murex tuberosus* DILLWYN, 1817; *C. erythraeonense* LAMARCK, 1822 in 1815-22; *C. tuberosum* SOWERBY II, 1855 non GRATELOUP, 1847; *C. polygonum* SOWERBY II, 1855 non LEYMERIE, 1844; *C. omissum* BAYLE, 1880; *Matilda eurytima* MELVILL & STANDEN, 1896; *Contumax decollata* HEDLEY, 1899) Oni-no-tsuno-gai

- Type locality: 'mer Rouge; l'Océan Asiatique; Isle d'Amboine' restricted to 'Ambon island, Indonesia' (HOUBRICK, 1992).
- Distribution: Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; Philippines, Indo-western Pacific to Red Sea, Society islands, Australia.
- Habitat: intertidal, rocks and coral.

G629 *C. (C.) echinatum* LAMARCK, 1811

(= *Strombus tuberculatus* LINNAEUS, 1767 non BORN, 1778, *nomen dubium* (HOUBRICK, 1992); *Cerithium mutatum* SOWERBY, 1834; *C. adansonii* BRUGUIÈRE *sensu* KIENER, 1842 non BRUGUIÈRE, 1792 in 1789-1816; *C. rubus* DESHAYES, 1843 non *sensu* SOWERBY, 1855 and *auct.*; *C. album* HOMBON & JAQUINOT, 1852; *C. tuberculiferum* PEASE, 1869)

Me-oni-no-tsuno-gai

- Type locality: none originally given; designated 'Tulear, Madagascar' (HOUBRICK, 1992).
- Distribution: Kii peninsula, Ōsumi peninsula (Kagoshima prefecture), Tanegashima & Yakushima and southwards, Ogasawara islands, ECP4-ECP2, P2; Taiwan, Philippines, tropical Pacific to Hawaii, Easter island, Australia, Indian

Ocean to South Africa, Red Sea.

- Habitat: subtidal, rocks and coral.

**G630 *C. (C.) columna* SOWERBY I, 1834**

(= *Murex torulosa* LINNAEUS, 1767 *nomen dubium* (HOUBRICK, 1992); *Cerithium fusiforme* SOWERBY II, 1855 *non* LEYMERIE, 1844; *C. menkei* DESHAYES, 1863; *C. siphonatum* SOWERBY II, 1865; *C. sandvichense* SOWERBY II, 1865; *C. cylindraceum* PEASE, 1869; *C. proditum* BAYLE, 1880; *C. citrinoides* KOBELT, 1893; *C. peasei* DAUTZENBERG & BOUGE, 1933; *C. munitoides* HABE, 1964; *C. salebrosum* SOWERBY *sensu* LADD, 1972)

Ko-oni-no-tsunogai (= Sekihitsu-kata-tsunobue)

- Type locality: none originally given; neotype selected (HOUBRICK, 1992), from Philippines.
- Distribution: Kii peninsula and southwards, western Kyūshū, Ogasawara islands, P5, ECP4-ECP2, P2; Philippines, entire Indian Ocean, South Africa, Red Sea, Indo-Pacific to Hawaii, Easter island, Australia.
- Habitat: offshore reefs and in lagoons; sand and rubble.

**G631 *C. (C.) citrinum* SOWERBY II, 1855 in 1842-87**

Ki-iro-kanimori

- Type locality: Masbate, Philippines.
- Distribution: Kii peninsula and southwards, Izu islands, Ogasawara islands, P6-P5, EC5, ECP4-ECP2; Philippines, central and western Pacific to Fiji, Australia, Indian Ocean to South Africa.
- Habitat: subtidal in lagoons and on reefs; sand and rubble.

**G632 *C. (C.) kobelti* DUNKER, 1877**

Koberuto-kanimori (= Kōrogi-gai)

- Type locality: 'Japan' (from article title).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2; Korea.
- Habitat: intertidal to 20 m., rocks and rubble.

**G633 *C. (C.) dialeucum* PHILIPPI, 1849 in 1842-51**

(= *C. suturale* PHILIPPI, 1849 *non* RISSO, 1826, *nec* BUVIGNIER, 1843; *C. striatum* HOMBROUN & JAQUINOT, 1852 *non* DESHAYES, 1833, *nec* LEA, 1833, *nec* GIEBEL, 1848; *C. bicolor* HOMBROUN & JAQUINOT, 1852 *non* C. B. ADAMS, 1845; *C. kobelti* DUNKER *sensu* MACNEIL, 1960; *C. ravidum* PHILIPPI *sensu* CERNOHORSKY, 1972; *C. tenellum* SOWERBY *sensu* SPRINGSTEEN & LEOBRERA, 1986 *non* SOWERBY II, 1855 in 1842-87)

Hosoyaka-kanimori (= Ki-iro-suji-kanimori; Hime-kōrogi-gai)

- Type locality: none originally given; designated 'Viti Levu, Fiji' (HOUBRICK, 1992)
- Distribution: Kii peninsula and southwards, P11,

Ogasawara islands, P6-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2; Australia, Indo-western Pacific to Samoa, Indian Ocean to South Africa.

- Habitat: subtidal, rocks and rubble.

**G634 *C. (C.) torresi* E. A. SMITH, 1884**

(= *Clypeomorus sordidula* GOULD *sensu* HABE, 1964 *non* GOULD, 1849; *Proclava pfeifferi* (DUNKER) *sensu* HABE, 1964 *non* DUNKER, 1882; *C. tenellum* SOWERBY *sensu* CERNOHORSKY, 1972 *non* SOWERBY II, 1855 in 1842-87)

Hoso-kōrogi

- Type locality: Prince of Wales Channel, Torres Straits, Australia; 3-4 fms.
- Distribution: Kii peninsula and southwards, Ogasawara islands, P5, EC5, ECP4-ECP2, P2; Philippines, Indian Ocean to northwestern India, Indonesia, Australia, Papua New Guinea, Solomon islands.
- Habitat: intertidal to subtidal, rocks and rubble.

**G635 *C. (C.) munitum* SOWERBY II, 1855 in 1842-87**

(= *C. pyramidatum* HOMBROUN & JAQUINOT, 1852 *non* DESHAYES, 1834; *C. sucradjanum* MARTIN, 1899; *C. talahabense* MARTIN, 1899; *C. dautzenbergi* VIGNAL, 1902; *C. Boettgeri* (*sic*) ICKE & MARTIN, 1907 *non* VON KOENEN, 1882; *C. ickei* VIGNAL, 1908; *C. vandervlerki* VAN DER VLERK, 1931)

Kata-tsunobue

- Type locality: Masbate, Philippines.
- Distribution: Amami islands, Okinawa islands; Philippines, Indo-Pacific to Line islands, Australia, New Caledonia.
- Habitat: subtidal to 10 m., on reefs in sand and dead coral.

**G636 *C. (C.) boeticum* PEASE, 1860-b**

(= *C. stigmosum* GOULD, 1861)

Kurifu-kanimori

- Type locality: 'Sandwich Islands' (Hawaii)
- Distribution: P11, Ogasawara islands, ECP3-ECP2; western Pacific, Hawaii.
- Habitat: intertidal, coarse sand and stones.

**G637 *C. (C.) lifuense* MELVILL & STANDEN, 1895**

(= *C. armatum* PHILIPPI, 1848 *non* GOLDFUSS, 1844; *C. lifuense murita* (YOKOYAMA) *sensu* HABE, 1964)

Yoroi-tsunobue

- Type locality: Lifu, Loyalty islands, New Caledonia.
- Distribution: Suruga bay and southwards, western Kyūshū, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Papua New Guinea, Indonesia, Solomon islands to New Caledonia.
- Habitat: 1-55 m., sand and rubble.

**G638 *C. (C.) coralium* KIENER, 1841**

(= *C. granosum* KIENER, 1841 *non* BORSON, 1821, *nec*

VALENCIENNES, 1832, *nec* WOOD, 1848; *C. ustum* HOMBRON & JAQUINOT, 1852; *C. mitraeforme* SOWERBY II, 1855; *C. ickei* MARTIN, 1914 *non* VIGNAL, 1908; *C. nanggulanense* VIGNAL, 1915; *C. duffieldi* IREDALE, 1929; *C. eojavana* ALTENA, 1938; *C. ruppelli* PHILIPPI *sensu* LADD, 1972)

Koge-tsunobue

- Type locality: 'l'océan Indien'.
- Distribution: Suruga bay and southwards, P6-P5, Seto inland sea, Japan Sea (Yamaguchi prefecture, J2-J1) EC5, ECP4-ECP2, P2; Philippines, Indonesia to western India, Australia, New Caledonia, Fiji.
- Habitat: intertidal in bays and estuaries; sandy mud among mangroves.

G639 *C. (C.) zonatum* (WOOD, 1828 in 1818-28) (= *C. lemmiscatum* QUOY & GAIMARD, 1834 *non* BROGNIART, 1823; *C. luctuosum* HOMBRON & JAQUINOT, 1852; *C. millepunctatum* HOMBRON & JAQUINOT, 1852 *non* EUDES-DESLONGCHAMPS, 1842; *C. alternatum* SOWERBY II, 1855 in 1842-87; *C. splendens* SOWERBY II, 1855 in 1842-87; *C. tessellatum* SOWERBY II, 1855 in 1842-87; *C. Hanleyi* (*sic*) SOWERBY II, 1855 in 1842-87; *C. gemma* SOWERBY II, 1855 in 1842-87; *C. nitidum* SOWERBY II, 1855 in 1842-87 *non* MACANDREW & FORBES, 1847, *nec* HOMBRON & JAQUINOT, 1852, *nec* ZEKELI, 1852; *C. purpurascens* SOWERBY II, 1855 in 1842-87; *C. asperum* PEASE, 1861 *non* BRUGUIÈRE, 1792 in 1789-1816, *nec* ROULLIER, 1848; *C. robustum* SOWERBY II, 1865; *C. gentile* BAYLE, 1880; *C. trailli kikaiensis* PILSBRY, 1904; *C. philippinense* COSSMANN, 1906; *C. probleema* IREDALE, 1929; *C. tenellum* SOWERBY *sensu* SPRINGSTEEN & LEOBRERA, 1986 *non* SOWERBY II, 1855 in 1842-87)

Kanetsuke-kanimori (= Hime-kuwanomi-kanimori; Datemaki-kanimori; Obi-kayanomi-kanimori)

- Type locality: none originally given; designated 'Bandicoot bay, Barrow island, Australia' (HOUBRICK, 1992).
- Distribution: Kii peninsula and southwards, southern Kyūshū, P5, ECP4-ECP2, Ogasawara islands; Philippines, Australia, Indo-Pacific to Samoa, Indonesia, Indian Ocean to Madagascar.
- Habitat: intertidal, rocks and rubble among sea-grass.
- Original genus: *Strombus*.

G640 *C. (C.) trailli* SOWERBY II, 1855 in 1842-87  
Chū-kuwanomi-kanimori

- Type locality: Singapore.
- Distribution: Amami islands and southwards, Ogasawara islands, ECP3-ECP2; Philippines, Indonesia, Solomon islands, New Caledonia, Fiji, Australia.

- Habitat: intertidal, rocks.

G641 *C. (C.) claviforme* SCHEPMAN, 1907

- Type locality: Kajoe Ragi, Celebes, Indonesia (fossil).
- Distribution: Okinawa islands (HABE, 1993); tropical Pacific, Papua New Guinea, Indonesia.
- Habitat: subtidal in lagoons and on reefs, on rocks.

G642 *C. (C.) lissum* WATSON, 1880 in 1879-83

- (= *C. fusiforme* SOWERBY, 1855 *sensu* SPRINGSTEEN & LEOBRERA, 1986; *C. veillardii* DRIVAS & JAY, 1990)
- Type locality: Levuka, Fiji, 12 fms.
  - Distribution: Okinawa islands; Fiji.
  - Habitat: 15-146 m., sand and rubble.

G643 *C. (C.) pacificum* HOUBRICK, 1992

- (= *Clypeomorus trailli* (SOWERBY) *sensu* SPRINGSTEEN & LEOBRERA, 1986)  
Taiheiyo-kanimori
- Type locality: Bikini Atoll, Marshall islands, 55-61 m.
  - Distribution: Okinawa islands; Marshall islands to Society islands, Australia, Philippines.
  - Habitat: in lagoons and on reefs.

Subgenus *Conocerithium* SACCO, 1895

Type species: *Conocerithium tauroconicum* SACCO, 1895

G644 *C. (Conocerithium) egenum* GOULD, 1849 in 1846-50

(= *C. rarimaculatum* SOWERBY II, 1855; *C. strictum* HEDLEY, 1899; *C. bavayi* VIGNAL, 1902; *C. bavayi* var. *denticulata* VIGNAL, 1902)  
Hoso-shibori-tsunobue

- Type locality: 'Wilson's island' (Manihi island, Tuamotu Archipelago).
- Distribution: Kii peninsula and southwards, P11, Ogasawara islands, P5, ECP4-ECP2, P2; Philippines, Australia, tropical Indo-Pacific to Easter island, Hawaii, Indian Ocean to Comoros islands.
- Habitat: intertidal, sand in pools among rocks and coral.

G645 *C. (Conocerithium) atromarginatum*

DAUTZENBERG & BOUGE, 1933

(= *C. maculosum* MIGHELS, 1845 *non* KIENER, 1841; *C. nassoides* SOWERBY II, 1855 *non* GRATELOUP, 1832; *C. bavayi* VIGNAL *sensu* CERNOHORSKY, 1972)  
Kon-shibori-tsunobue

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P11, Ogasawara islands, ECP4-ECP2; tropical Indo-Pacific to Easter island, Hawaii, Australia, Indian Ocean to South Africa.
- Habitat: intertidal, in sand pockets and among weed on rocks.

Subgenus *Ischnocerithium* THIELE, 1929

Type species: *Cerithium rostratum* SOWERBY II, 1855 (o. d.)

G646 *C. (I.) rostratum* SOWERBY II, 1855 in 1842-87 (= *C. gracile* PEASE, 1861 non LAMARCK, 1804; *C. amabile* BAYLE, 1880; *C. albovaricosum* E. A. SMITH, 1884)

Hashinaga-tsunobue

- Type locality: Philippines; restricted to 'Cebu' (HOUBRICK, 1992).
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, Japan Sea (Tajima, Hyōgo prefecture; J2-J1), EC5, ECP4-ECP2; central to western Pacific.
- Habitat: shallow water to 35 m., on sand among seagrass.

Subgenus *Semivertagus* COSSMANN, 1889

Type species: *Cerithium unisulcatum* LAMARCK, 1804

G647 *C. (S.) nesioticum* PILSBRY & VANATTA, 1906 (= *C. lacteum* KIENER, 1842 non PHILIPPI, 1836; *C. papillosum* SOWERBY II, 1855 non EUDES-DESLONGCHAMPS, 1842; *C. spiculum* HEDLEY, 1899 non EUDES-DESLONGCHAMPS, 1842; *C. collacteum* IREDALE, 1929)

Kurimushi-kanimori

- Type locality: none designated.
- Distribution: Izu peninsula and southwards, Kii peninsula, P11, Ogasawara islands, P6-P5, ECP4-ECP2; South Africa to Indonesia, Red Sea, Pacific to Pitcairn and Hawaii, Australia.
- Habitat: intertidal, in sand in rock pools.

G648 *C. (S.) interstriatum* SOWERBY II, 1855 in 1842-87

(= *C. clavis* SOWERBY II, 1865; *C. thaanumi* PILSBRY & VANATTA, 1905)

Meoto-suji-kanimori

- Type locality: none originally given; designated 'Honolulu, Hawaii' (HOUBRICK, 1992).
- Distribution: Kii peninsula and southwards, western Kyūshū, P11, Ogasawara islands, P5, ECP4-ECP2; Hawaii, Philippines, Papua New Guinea, Fiji, Tuamotos, western Indian Ocean.
- Habitat: subtidal, sandy mud and coral rubble

G649 *C. (S.) punctatum* BRUGUIÈRE, 1792 in 1789-1816

(= *C. alveolus* HOMBRON & JAQUINOT, 1852; *C. piperitum* SOWERBY II, 1855)

Gomafu-kanimori (= Hime-mushiro-kanimori)

- Type locality: 'Senegal'.
- Distribution: Kii peninsula and southwards, western Kyūshū, P11, Ogasawara islands, P5, EC5, ECP4-ECP2; tropical Indo-Pacific to Tuamoto Archipelago, Australia,

Indonesia, Indian Ocean to South Africa.

- Habitat: on rocky shores and reef flats, intertidal among algae.

G650 *C. (S.) zebrum* (KIENER, 1841)

Hana-kanimori

- Type locality: 'les mers de l'Inde (Indian Ocean), les côtes de l'île de France' (Mauritius).
- Distribution: Kii peninsula and southwards, P11, Ogasawara islands, P5, western Kyūshū, ECP4-ECP2; tropical Indo-Pacific.
- Habitat: intertidal on coral or coral sand.
- Original genus: *Bittium*.

G651 *C. (S.) janthinum* (GOULD, 1849 in 1846-50)

- Type locality: Clermont Tonnerre (Reao island, Tuamoto Archipelago).
- Distribution: Okinawa (KURODA, 1960); Tuamotos.
- Original genus: *Cerithium*.

Subgenus *Ptychocerithium* SACCO, 1895

Type species: *Cerithium planum* ANTON, 1838 (*nom. dub.*; = *C. balteatum* PHILIPPI, 1848)

G652 *C. (P.) balteatum* PHILIPPI, 1848

(= *C. planum* ANTON, 1838 *nomen dubium* (HOUBRICK, 1992); *C. invaginatum* GOULD, 1849; *C. coronatum* SOWERBY II, 1855 non BRUGUIÈRE, 1792 in 1789-1816; *C. custos* BAYLE, 1880; *C. nigrobalteatum* E. A. SMITH, 1884; *C. planiusculum* KOBELT, 1895) Juzukake-kanimori

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, western Indo-Pacific.
- Habitat: shallow water, sand and coral rubble.

□ Genus *Clypeomorus* JOUSSEAUME, 1888

Type species: *Cerithium clypeomorus* JOUSSEAUME, 1888 (o. d.; = *Cerithium bifasciata* SOWERBY II, 1855 in 1842-87 by tautonymy) (Refs.: Houbriick, 1985)

G653 *C. bifasciata* (SOWERBY II, 1855 in 1842-87)

(= *Cerithium morus* LAMARCK, 1822 in 1815-22 non BRUGUIÈRE, 1792 in 1789-1816; *Cer. concisum* HOMBRON & JAQUINOT, 1852 non MATHERON, 1843; *Cer. gemmulatum* HOMBRON & JAQUINOT, 1852 (*pars*) non DE SERRES, 1840; *Cer. vittatum* SOWERBY II, 1855 non LAMARCK, 1804; *Cer. Hanleyi* (*sic*) SOWERBY II, 1855 in 1842-87; *Cer. rubro-lineatum* SOWERBY II, 1855 in 1842-87; *Cer. humile* DUNKER, 1861; *Cer. moniliferum* KIENER *sensu* SOWERBY II, 1865 non KIENER, 1841; *Cer. nigro-fasciatum* SOWERBY II, 1865; *Cer. obesulum* SOWERBY II, 1865; *Cer. Uranus* (*sic*) BAYLE, 1880; *Cer. clypeomorus* JOUSSEAUME, 1888; *Cer. morus* LAMARCK *var.*

*moniliferum* DUFRESNE *sensu* SCHEPMAN, 1895; *Cer. oceanicum* HEDLEY, 1899; *Cer. morum variegatum sensu* IWAKAWA, 1919; *Cer. concisum moniliferum* KIENER *sensu* OOSTINGH, 1923; *Cer. penthusarus* IREDALE, 1929; *Clypeomorus humilis sensu* KURODA & HABE, 1952-a, KURODA, 1960, KIRA, 1962, HABE & KOSUGE, 1967, KURODA *et al.*, 1971, OKUTANI, 1975, SAKURAI, 1986; *Cer. tuberculatus* (LINNAEUS) *sensu* SHUTŌ, 1969)

Kasuri-kanimori (= Kayanomi-kanimori)

- Type locality: St. Nicholas island, off Cebu, Philippines.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, Ogasawara islands, ECP4-ECP2, P2; Korea, Philippines, entire Indo-Pacific eastwards to Samoa, Red Sea, South Africa to Australia
- Habitat: intertidal, rocks.
- Original genus: *Cerithium*.

**G654 *C. irrorata* (GOULD, 1849)**

(= *Cerithium obesum* SOWERBY II, 1855 in 1842-87 non DESHAYES, 1834, *nec* GABB, 1873 (*pars*), *nec* GUPPY, 1876; *Cerithium repletulum* BAYLE, 1880)

Semushi-tsunobue

- Type locality: none originally given; designated 'Looe bay, Bataan, Luzon, Philippines' (HOUBRICK, 1985).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, western Pacific, Sri Lanka.
- Habitat: intertidal, rubble or coarse sand and stones.
- Original genus: *Cerithium*.

**G655 *C. brevis* (QUOY & GAIMARD, 1834 in 1832-35)**

(= *Strombus rugosus* WOOD, 1828 in 1818-28 non LAMARCK, 1804; *Cerithium musiva* HOMBROUN & JAQUINOT, 1852; *Cer. musiva var. albida* HOMBROUN & JAQUINOT, 1852; *Cer. acutum* HOMBROUN & JAQUINOT, 1852; *Cer. rugosum* (WOOD) *sensu* SOWERBY II, 1865; *Cer. bifasciatus* (SOWERBY) *sensu* SHIRAI, 1977)

Shirofu-kayanomi-kanimori

- Type locality: 'Tonga Tabou' (Tongatapu, Tonga islands).
- Distribution: Iriomote island (Okinawa prefecture) and southwards; tropical Pacific to Easter Island, New Caledonia.
- Habitat: intertidal, rubble.
- Original genus: *Cerithium*.

**G656 *C. batillariaeformis* HABE & KOSUGE, 1966-b**

(= *Cerithium moniliferum* 'Dufresne' *sensu* KIENER, 1841 non DESHAYES, 1833; *Cer. gemmulatum* HOMBROUN & JAQUINOT, 1852 (*pars*) non DE SERRES, 1840; *Cer. obscurum* HOMBROUN & JAQUINOT, 1852 non DESHAYES, 1833; *Cer. baccatum* HOMBROUN &

JAQUINOT, 1852 non BROGNIART, 1823, *nec* KIENER, 1841; *Cer. concisum moniliferum* KIENER *sensu* OOSTINGH, 1923 non HOMBROUN & JAQUINOT, 1852; *Cer. morus* BRUGUIÈRE *sensu* DEMOND, 1957 non LAMARCK, 1822 in 1815-22; *Clypeomorus tuberculata* (LINNAEUS) *sensu* SHUTŌ, 1969 non LINNAEUS, 1758; *Cly. moniliferus* (KIENER) *sensu* CERNOHOROSKY, 1972 (*pars*); *Cly. (Thericium) alveolus* HOMBROUN & JAQUINOT *sensu* LADD, 1972 non HOMBROUN & JAQUINOT, 1852; *Cer. wainigoli* LADD, 1972; *Cly. humilis* (DUNKER) *sensu* SHIRAI, 1977 non DUNKER, 1861)

Umi-nina-kanimori

- Type locality: Arafura Sea, off northern Australia.
- Distribution: Okinawa islands (HOUBRICK, 1985) and southwards, ECP3-ECP2, P2; Philippines, Australia, Indo-western Pacific.
- Habitat: intertidal, rubble.

**G657 *C. pellucida* (HOMBROUN & JACQUINOT, 1852)**

(= *Cerithium patulum* SOWERBY, 1855; *Cer. patulum var. depauperata* DAUTZENBERG & FISCHER, 1905; *Cer. gibberosum* FRAUENFELD, 1867 non GRATELOUP, 1832; *Cer. patulum* (SOWERBY) *sensu* SHIRAI, 1977)

Mitsukado-kanimori

- Type locality: 'Îles Salomon' (Solomon islands).
- Distribution: Okinawa and southwards, ECP2, P2; Philippines, Australia, tropical western Pacific.
- Habitat: intertidal, rubble.
- Original genus: *Cerithium*.

**G658 *C. petrosa petrosa* (WOOD, 1828 in 1818-28)**

(= *Strombus tuberculatus* LINNAEUS, 1767 *nomen dubium* (HOUBRICK, 1985); *Cerithium janelli* HOMBROUN & JAQUINOT, 1852; *Cer. variegatum* QUOY & GAIMARD *sensu* SOWERBY II, 1865 non QUOY & GAIMARD, 1834; *Cer. bifasciatum* SOWERBY *sensu* DANCE, 1974)

Arare-kanimori

- Type locality: 'East Indies', restricted to 'Suva, Viti Levu, Fiji islands' (HOUBRICK, 1985).
- Distribution: Suruga bay and southwards, Ogasawara islands, P6-P5, western Kyūshū, ECP3-ECP2; Philippines, New Guinea, Melanesia, southwestern Pacific.
- Habitat: intertidal to 20 m., coral.
- Original genus: *Strombus*.

**G659 *C. petrosa chemnitziana* (PILSBRY, 1901-b)**

(= *Cerithium variegatum* QUOY & GAIMARD *sensu* SOWERBY II, 1865 (*pars*))

Kuwanomi-kanimori

- Type locality: 'Loo Choo Ids.' (Okinawa).
- Distribution: Kii peninsula and southwards, P5, ECP4-

ECP2, Ogasawara islands; Korea, Philippines, Indonesia.

- Habitat: intertidal to 20 m., coral.
- Original genus: *Cerithium*.

G660 *C. purpurastoma* HOUBRICK, 1985

(= *C. petrosus sensu* KURODA, 1941 non WOOD, 1828)

Iwa-kanimori (Kuchi-murasaki-kanimori)

- Type locality: Napot point, Morong, Bataan, Philippines; low water in sand around boulders.
- Distribution: Amami islands and southwards, ECP3. ECP2, P2; Philippines, tropical western Pacific, Australia.
- Habitat: intertidal to 20 m., rocks, rubble and coral.

G662 *C. subbrevicula* (OOSTINGH, 1925)

(= *Cerithium breviculum* SOWERBY II, 1834 non DESHAYES, 1833; '*Cerithium humile* DUNKER *varietas*' (*sic*) *sensu* LISCHKE, 1875)

Ō-shima-kanimori

- Type locality: none originally given; designated 'Philippines' (HOUBRICK, 1985).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, ECP4-ECP2, P2; Philippines, Indonesia, India to New Caledonia, Australia.
- Habitat: intertidal, rocks.
- Original genus: *Cerithium*.

G663 *C. nympha* HOUBRICK, 1985

(= *Cerithium variegatum* QUOY & GAIMARD, 1834 non FISCHER, 1807, *nec* MENKE, 1829, *nec* FOLIN, 1869; *Cer. zonale* QUOY & GAIMARD, 1834 non BRUGUIÈRE, 1792 in 1789-1816; *Cer. pupa* SOWERBY II, 1865 non MARTIN, 1863; *Cer. tuberculatum var. variegatum* E. A. SMITH, 1884; *Cer. sejunctum* IREDALE, 1929 non ZEKELI, 1852)

Kurofu-kanimori

- Type locality: 'Tonga Tapu' (Tonga islands).
- Distribution: southeastern Japan; Taiwan, Indo-Pacific to Tonga and Society islands, Indian Ocean from Seychelles to Cocos-Keeling islands (HOUBRICK, 1985).
- Habitat: intertidal, on rocks and algae.

□ Genus *Colina* H. & A. ADAMS, 1854 in 1853-58

Type species: *Cerithium macrostoma* HINDS, 1844 (s. d. COSSMANN, 1906)

(= *Colinia* COSSMANN, 1889)

G664 *Colina macrostoma* (HINDS, 1844 in 1844-45)

(= *Colina pupiformis* A. ADAMS in H. & A. ADAMS, 1854 in 1853-58; *Colina costata* A. ADAMS, 1855; *Cerithium costiferum* SOWERBY II, 1855 in 1842-87; *Colina gracilis* H. ADAMS, 1866-b; *Cer. coarctatum* SOWERBY II, 1866; *Colina pygmaea* H. ADAMS, 1867-b; *Cer. ringens* BAYLE, 1880)

Ebi-gai

- Type locality: Borneo.

• Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2; western Pacific.

- Habitat: intertidal to 20 m., on seaweed.
- Original genus: *Cerithium*.

□ Genus *Rhinoclavis* SWAINSON, 1840

Type species: *Murex vertagus* LINNAEUS, 1767 (s. d. HERMANNSEN, 1848)

(= *Clava* MARTYN, 1784; *Vertagus* SCHUMACHER, 1817 non LINK, 1807)

Subgenus *Rhinoclavis s. str.*

(Refs.: Houbrick, 1978)

G665 *R. (R.) vertagus* (LINNAEUS, 1767)

(= *Clava varia* HUMPHREY, 1797; *Clava volvox* HUMPHREY, 1797; *Strombus carminatus* RÖDING, 1798 (*pars.*); *Cerithium virgatum* MONTFORT, 1810; *Cer. despectum* PERRY, 1811; *Vertagus vulgaris* SCHUMACHER, 1817; *Cer. taeniatum* QUOY & GAIMARD, 1834)

Takenoko-kanimori

- Type locality: none originally given; designated 'Ocussi-Ambeno, East Timor, Indonesia' (HOUBRICK, 1978).
- Distribution: Kii peninsula and southwards, P5, western Kyūshū (Gotō islands, EC5), ECP4-ECP2; tropical Indo-Pacific.

• Habitat: intertidal to 13 m., coral and sand.

• Original genus: *Murex*.

**Notes:** HOUBRICK (1978: 32) incorrectly cited the authorship of this species as Linnaeus, 1758.

G666 *R. (R.) aspera* (LINNAEUS, 1758)

(= *Murex granulatus* LINNAEUS, 1758; *Clava rugata* MARTYN, 1784 (invalid: ICZN op. 456); *Strombus vibex* GMELIN, 1791; *Cerithium asperum* BRUGUIÈRE, 1792 in 1789-1816; *Cer. lineatum* LAMARCK, 1816; *R. asper auct.*)

Yokowa-kanimori

- Type locality: none originally given; designated 'Tongatapu, Tonga' (HOUBRICK, 1978).
- Distribution: off Kōchi prefecture (southern Shikoku) and southwards, Ogasawara islands, P5, ECP4-ECP2; tropical Indo-Pacific.
- Habitat: intertidal to 20 m., rocks and coral.
- Original genus: *Murex*.

G667 *R. (R.) fasciata* (BRUGUIÈRE, 1792 in 1789-1816)

(= *Strombus carminatus* RÖDING, 1798 (*pars.*); *Cerithium bandatum* PERRY, 1811; *Cer. martiniatum* PFEIFFER, 1840; *R. fasciatum* MART. *sensu* SWAINSON, 1840; *Cer. procerum* KIENER, 1841; *Cer. pharos* HINDS, 1844)

Naga-takenoko-kanimori (= Goban-kanimori)



- Type locality: 'sur la cote de Coromandel, & à l'isle de Ceylan' (Coromandel coast (southeastern India) and Sri Lanka).

- Distribution: Kii peninsula and southwards, Ogasawara islands, P5, western Kyūshū (off Gotō islands), ECP4-ECP2; tropical Indo-Pacific, Sri Lanka.

- Habitat: intertidal to 18 m., sand.

- Original genus: *Cerithium*.

**G668 R. (R.) articulata (ADAMS & REEVE, 1850 in 1848-50)**

(= *Vertagus graniferus* PEASE, 1861; *V. seminudus* SOWERBY *sensu* REEVE, 1865; *Cerithium (Rhinoclavis) acutinodosum* E. A. SMITH, 1884; *Clava tenuisculpta* SOWERBY *sensu* SCHEPMAN, 1909 in 1908-13; *Cer. (Ver.) attenuatum* PHILIPPI *var. brevicaudatum* ODHNER, 1917; *Ochetoclava pilsbryi* KURODA & HABE in HABE, 1961-a; *R. gemmata* (Hinds) *sensu* SALVAT & RIVES, 1875)

Kazari-kanimori (= Gomafu-tōgata-kanimori; Fushi-kanimori)

- Type locality: 'Coast of Borneo, China Sea' restricted to 'Tai Islands, Moluccas, Indonesia' (HOUBRICK, 1978).

- Distribution: Izu islands and southwards, Kii peninsula, P11, Ogasawara islands, P6-P5, southern Kyūshū, ECP4-ECP2, P2; Indo-Pacific.

- Habitat: intertidal to 91 m., coarse sand and stones.

- Original genus: *Cerithium*.

**G669 R. (R.) sinensis (GMELIN, 1791)**

(= *Cerithium obeliscus* BRUGUIÈRE, 1792 in 1789-1816; *Strombus muricatus* RÖDING, 1798; *Cer. cedonulli* SOWERBY II, 1855)

Tōgata-kanimori (= Hime-tōgata-kanimori; Shachihokogai)

- Type locality: '*in mari Senegaliæ*' (Senegal, northwest Africa); corrected and restricted to 'Suva, Fiji Islands' (HOUBRICK, 1978)

- Distribution: Bōsō peninsula and southwards, P11, northern Ogasawara islands, P7-P5, western Japan Sea (northern Yamaguchi prefecture SUGIMURA & HOSAKA, 1993), EC5, ECP4-ECP2; Indo-western Pacific.

- Habitat: intertidal to 23 m., coarse sand and stones.

- Original genus: *Murex*.

**G670 R. (R.) diadema HOUBRICK, 1985**

Yase-tōgata-kanimori

- Type locality: Fanning island (Tabuaeran), Line islands.

- Distribution: Yaeyama islands (Ishigaki & Aragusuku KUROZUMI, 1991); Indo-western Pacific, Australia.

- Habitat: intertidal to 7 m.

Subgenus ***Proclava* THIELE, 1929**

Type species: *Cerithium pfefferi* DUNKER, 1882 (o. d.)

**G671 R. (P.) sordidula (GOULD, 1849 in 1846-50)**

(= *Cerithium turritum* SOWERBY II, 1855 in 1842-87; *Vertagus pfefferi* DUNKER, 1882; *Cer. (Ver.) kochi sensu* WATSON, 1886 in 1885-86 *non* PHILIPPI, 1848)

- Type locality: none designated.

- Distribution: Sagami bay and southwards, P6-P5, Japan Sea (Sado island, J2-J1), EC5, ECP4-ECP2, P2; Philippines.

- Habitat: intertidal to 45 m., in bays, sandy mud.

- Original genus: *Cerithium*.

**G672 R. (P.) kochi (PHILIPPI, 1848)**

(= *Cerithium subulatum sensu* LAMARCK, 1822 in 1815-22 *non* LAMARCK, 1804; *Cer. recurvum* SOWERBY II, 1855 in 1842-87; *Vertagus kochi var. polita* PRESTON, 1908; *Cer. (Ver.) attenuatum sensu* IWAKAWA, 1919) Kanimori-gai

- Type locality: 'Zanzibar' (east Africa).

- Distribution: Fukushima prefecture and southwards to southern Kyūshū, P8-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea, Indo-Pacific.

- Habitat: intertidal to 62 m., sand.

- Original genus: *Cerithium*.

**G673 R. (P.) ophioderma HABE, 1968-c**

Hebikawa-kanimori

- Type locality: Near Okinoshima, Kōchi prefecture, southwestern Shikoku; 50-100 m.

- Distribution: Izu islands to southern Shikoku.

- Habitat: 50-200 m., rocks.

- Original genus: *Proclava*.

Subgenus ***Longicerithium* HOUBRICK, 1978**

Type species: *Cerithium longicaudata* ADAMS & REEVE, 1850 (o. d.)

**G674 R. (L.) longicaudata (ADAMS & REEVE, 1850 in 1848-50)**

(= *Cerithium attenuatum* PHILIPPI, 1848 *non* FORBES, 1845)

Onaga-kanimori

- Type locality: 'Korea'.

- Distribution: off Kōchi prefecture (southern Shikoku) and southwards, P5, ECP4-ECP2; Korea, Philippines, southeast Asia, Fiji.

- Habitat: 28-55 m., sand.

- Original genus: *Cerithium*.

□ Genus ***Pseudovertagus* VIGNAL, 1904**

Type species: *Murex aluco* LINNAEUS, 1758 (o. d.) (Refs.: Houbrick, 1978)

Subgenus ***Pseudovertagus s. str.***

**G675 P. (P.) aluco (LINNAEUS, 1758)**

(= *Murex coronatus* BORN, 1778; *Clava hercula* HUMPHREY, 1797; *Clava eruca* HUMPHREY, 1797;

*Cer. cumingii* A. ADAMS *sensu* SOWERBY II, 1855 in 1842-87; *Vertagus cumingii sensu* REEVE, 1865; *Cer. (Ver.) cumingii sensu* KOBELT, 1898)

Tsunobue-gai

- Type locality: 'in *M. Mediterraneo*' (Mediterranean sea), erroneous; redesignated 'Calapan, Mindoro, Philippine Islands' (HOUBRICK, 1978).
- Distribution: Okinawa islands and southwards, P2; Philippines, southwestern Pacific.
- Habitat: intertidal in sand, in tidepools.
- Original genus: *Murex*.

G676 ***P. (P.) phylarchus* (IREDALE, 1929)**

(= *Cerithium clava* GRAY *sensu* SOWERBY II, 1834 *non Murex clava* GMELIN, 1791; *Cer. sowerbyi* KIENER, 1841 *non* DESHAYES, 1824; *Pseudovertagus excelsior* IREDALE, 1930)

Seitaka-tsunobue

- Type locality: none originally given; designated 'Zamboanga, Mindanao, Philippines' (HOUBRICK, 1978).
- Distribution: Okinawa and southwards, P2; Philippines to northeastern Australia.
- Habitat: 5-30 m., sand.
- Original genus: *Cerithium*.

□ Genus ***Royella* IREDALE, 1912**

Type species: *Cerithium sinon* BAYLE, 1880 (o. d.) (Refs.: Houbrick, 1986)

G677 ***R. sinon* (BAYLE, 1880)**

(= *Cerithium clathratum* SOWERBY II, 1855 *non* DESHAYES, 1834)

Kurin-nina

- Type locality: Bohol, Philippines.
- Distribution: Kii peninsula, P6-P5, Hachijō island and southwards, P11, Ogasawara islands, EC5, ECP4-ECP2; Indo-Pacific, Red Sea, Indian Ocean to Pitcairn island.
- Habitat: intertidal to 20 m., sandy mud among coral rubble.
- Original genus: *Cerithium*.

Subfamily **BITTIINAE COSSMANN, 1906**

□ Genus ***Bittium* LEACH in GRAY, 1847**

Type species: *Bittium reticulatum* (DACOSTA, 1778) (s. d. GRAY, 1847)

(= *Cerithiolum* TIBERI, 1869; *Semibittium* COSSMANN, 1896; *Bittiolum* COSSMANN, 1906; *Lirobittium* BARTSCH, 1911; *Inobittium* MONTEROSATO, 1917; *Manobittium* MONTEROSATO, 1917; *Bittinella* DALL, 1924; *Zebittium* FINLAY, 1927; *Cacozelia* IREDALE, 1924 *non* GROTE, 1878; *Cacozeliana* STRAND, 1928; *Bittiscula* FINLAY & MARWICK, 1937; *Paracerithium* COTTON, 1932 *non* COSSMANN, 1902; *Eubittium* COTTON, 1937; *Brachybittium* WEISBORD, 1962;

*Dahlakia* BIGGS, 1971; *Rasbittium* GRÜNDEL, 1976)  
Subgenus ***Bittium s. str.***

G678 ***B. (B.) glareosum* GOULD, 1861 in 1859-61**

(= *Cerithium craticulatum* GOULD, 1861; *C. pusillum* DUNKER, 1860 *non* GOULD, 1849; *C. perpusillum* TRYON, 1878)

Nomi-kanimori (= Chibi-kanimori)

- Type locality: 'Port Lloyd, Bonin Islands' (Futami harbour, Ogasawara islands) and 'Loo Choo' (Okinawa).
- Distribution: southern Hokkaidō and southwards, P11, Ogasawara islands (Chichijima, Anijima & Hahajima FUKUDA, 1993), P10-P5, Japan Sea (Sado island, J2-J1), EC5; Korea.
- Habitat: intertidal to 15 m., coarse sand and stones.

G679 ***B. (B.) alutaceum* GOULD, 1861 in 1859-61**

(= *Cerithiopsis hilaris* YOKOYAMA, 1924; *B. numamuranum* YOKOYAMA, 1925)

Dandara-nomi-kanimori

- Type locality: 'China Seas'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Sado island, J2-J1), EC5.
- Habitat: intertidal to 10 m., on seaweed on rocks.

G680 ***B. (B.) variegatum* KURODA & HABE in KURODA *et al.*, 1971**

(= *B. aleutaceum (sic) var. sensu* HABE, 1964 *non B. alutaceum* GOULD, 1861)

Madara-chibi-kanimori (= Madara-nomi-kanimori; Madara-keshi-kanimori)

- Type locality: Sagami bay, central Honshū.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5; Korea
- Habitat: intertidal to 20 m., coarse sand and stones.

G681 ***B. (B.) urashimanum* NOMURA & NIINO, 1940**

Urashima-nomi-kanimori

- Type locality: Urashima reef, Wakasa bay, Japan Sea.
- Distribution: Sagami bay and southwards, P6-P5, Japan Sea (Sado island, J2-J1), EC5, East China Sea.
- Habitat: 30-250 m., sand.

G682 ***B. (B.) naganumanum* (YOKOYAMA, 1925)**

Naganuma-nomi-kanimori

- Type locality: Naganuma, Yokohama City (fossil).
- Distribution: Suruga bay.
- Original genus: *Cerithiopsis*.

Subgenus ***Stylidium* DALL in BARTSCH, 1907-a**

Type species: *Bittium (Stylidium) eschrichti* MIDDENDORFF, 1849 (o. d.)

G683 ***B. (S.) batillarum* KURODA & HABE in KURODA *et al.*, 1971**

Umi-nina-chibi-kanimori

- Type locality: Sagami bay, central Honshū.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5.
- Habitat: intertidal to 35 m., among seaweed.

□ Genus *Ittibittium* HOUBRICK, 1993

Type species: *Bittium parcum* GOULD, 1861 (o. d.)

G684 *I. parcum parcum* (GOULD, 1861 in 1859-61)  
(= *Cerithium (Bittium) oosimense* WATSON, 1880;  
*Bittium scalatum* DUNKER, 1882)

Ō-shima-chigusa-kanimori (= Itokake-chigusa-kanimori)

- Type locality: 'Loo Choo' (Okinawa).
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, Japan Sea (Oga peninsula), ECP4-ECP2.
- Habitat: intertidal on seaweed.
- Original genus: *Bittium*.

G685 *I. parcum nipponkaiense* (HABE & MASUDA, 1990)

Takenoko-chigusa-kanimori

- Type locality: Taino-hama, Hamasaka, Hyōgo prefecture (Japan Sea).
- Distribution: Japan Sea (Hamasaka); Enshū-nada.
- Original genus: *Plesiotrochus*.

Family DIALIDAE PONDER, 1990

□ Genus *Diala* A. ADAMS, 1861-e

Type species: *Diala varia* A. ADAMS, 1861 (o. d.)

G686 *D. varia* A. ADAMS, 1861-e

Suzume-hama-tsubo

- Type locality: 'China and Japan'
- Distribution: Sagami bay and southwards, P6-P5, Japan Sea (Sado island, J2-J1), EC5.
- Habitat: intertidal on seaweed.

G687 *D. stricta* HABE, 1960-b

Maki-mizo-suzume-tsubo

- Type locality: Minamata City, Kumamoto prefecture, Kyūshū.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5.
- Habitat: intertidal in bays on seaweed.

G688 *D. albugo* (WATSON, 1885 in 1886-86)

(= *D. ludens* MELVILL & STANDEN, 1895; *D. lusens sensu* KIRA, 1946, *err. pro -dens*)

Kurifu-hama-tsubo

- Type locality: 'Challenger' sta. 186, off Wednesday island, Cape York, northeastern Australia; 8 fms., coral mud.
- Distribution: Amami islands and southwards, Ogasawara islands, ECP3-ECP2; Australia.
- Habitat: intertidal on seaweed.

- Original genus: *Alaba (Diala)*.

G689 *D. sulcifera* A. ADAMS, 1862-e

Ko-kizami-hama-tsubo

- Type locality: 'O-sima; Tanabe' (Kii-Ōshima, Kii peninsula, central Honshū).
- Distribution: Suruga bay and westwards, Kii peninsula, Japan Sea (off Hagi, Yamaguchi prefecture).
- Habitat: intertidal to 50 m., on seaweed.

Family LITIOPIDAE GRAY, 1847

□ Genus *Litiopa* RANG, 1829

Type species: *Litiopa melanostoma* RANG, 1829 (o. d.)  
(= *Bombyxinus* LESSON, 1834; *Bombycinus auct.*)

G690 *L. melanostoma* RANG, 1829

Uki-tsubo

- Type locality: 'mers de Terre-Neuve' (seas of Newfoundland, eastern Canada).
- Distribution: Ogasawara islands (OKUTANI *et al.*, 1983), off Kii peninsula, Japan Sea (Wakasa bay); worldwide in open seas.
- Habitat: pelagic, attached to floating debris.

G691 *L. nipponica* KURODA & KAWAMOTO in KAWAMOTO & TANABE, 1956

Mijin-uki-tsubo

- Type locality: Mishima (off Hagi City, northern Yamaguchi prefecture, Japan Sea).
- Distribution: off Bōsō peninsula and southwards, P7-P5, Japan Sea (Wakasa bay and southwards, J2-J1), EC5.
- Habitat: attached to floating debris.

□ Genus *Alaba* H. & A. ADAMS, 1853-c

Type species: *Cerithium melanura* C. B. ADAMS, 1850 (s. d. NEVILL, 1885)

(= *Gibborissoa* COSSMANN, 1895; *Dialesea* IREDALE, 1955; *Australaba* LASERON, 1956)

G692 *A. cornea* (A. ADAMS, 1861-e)

- Type locality: 'Hulu-Shan Bay; 3 fms. Lo-Shan-kow; Shan-tung' (Shandong province, China)
- Distribution: 'Japan Sea side, 38° N.' (KURODA & HABE, 1952-a); type locality.
- Original genus: *Diala*.

G693 *A. felina* A. ADAMS, 1862-c

- Type locality: 'Takano-Sima' (Takanoshima, southern Bōsō peninsula, Chiba prefecture).
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

G694 *A. leucosticta* (A. ADAMS, 1861-e)

- Type locality: 'Low-shan-kow; Shang-tung' (Shandong province, China).
- Distribution: 'Japan Sea side, 38° N.' (KURODA & HABE, 1952-a); type locality.

G695 *A. lucida* A. ADAMS, 1862-e

- Type locality: 'Takano-Sima' (Takanoshima, southern Bōsō peninsula, Chiba prefecture).
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

G696 *A. subangulata* A. ADAMS, 1862-e

- Type locality: Tsushima.
- Distribution: 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a).

G697 *A. zebrina* A. ADAMS, 1862-e

(= *A. zebina sensu* KURODA & HABE, 1952-a, HIGO, 1973, HIGO & GOTŌ, 1993)

- Type locality: Tsushima, western Japan Sea.
- Distribution: 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a); Philippines.

**Notes:** syntypes also exist from Manila Bay, Philippines (BMNH no. 1990101).

G698 *A. imbricata* A. ADAMS, 1862-e

- Type locality: 'O-Sima' (probably Kii-Ōshima, Wakayama prefecture, central Honshū).
- Distribution: 'Pacific side, 33° N.' (KURODA & HABE, 1952-a).

G699 *A. inflata* A. ADAMS, 1862-e

- Type locality: 'O-Sima' (probably Kii-Ōshima, Wakayama prefecture, central Honshū).
- Distribution: 'Pacific side, 33° N.' (KURODA & HABE, 1952-a).

G700 *A. punctostriata* GOULD, 1861 in 1859-61

- Type locality: 'Loo Choo' (Okinawa).
- Distribution: Okinawa (KURODA, 1960); 'Pacific side, 26° N.' (KURODA & HABE, 1952-a).

□ Genus *Styliferina* A. ADAMS, 1860-h

Type species: *Styliferina goniochila* A. ADAMS, 1860 (o. d.)

G701 *S. goniochila* A. ADAMS, 1860-h

Hari-uki-tsubo

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: Kii peninsula and southwards, P5, Japan Sea (Mishima, J2-J1), EC5, Ogasawara islands (Chichijima FUKUDA, 1993).
- Habitat: intertidal, parasitic on *Ophioplocus*.

G702 *S. lepida* A. ADAMS, 1862-e

- Type locality: Yobuko, Saga prefecture, northern Kyūshū.
- Distribution: 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a).

G703 *S. orthochila* A. ADAMS, 1860-h

- Type locality: Tsushima, western Japan Sea, 26 fms.
- Distribution: 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a).

□ Genus *Diffalaba* IREDALE, 1936

Type species: *Diffalaba opiniosa* IREDALE, 1936 (o. d.)

G704 *D. picta* (A. ADAMS, 1861-e)

(= *Alaba vladivostokensis* BARTSCH, 1929; *Diffalaba icta sensu* OKUTANI, 1975, *err. pro pic-*)

Shima-hama-tsubo

- Type locality: 'Lo-shan-kow' (Laoshan, Shandong province, China).
- Distribution: Bōsō peninsula and southwards, northern Honshū to southern Kyūshū, P7-P5, Seto inland sea, Japan Sea (Sado island, J3-J1), EC5; Korea, northern China.
- Habitat: intertidal to 50 m., on seaweed.
- Original genus: *Diala*.

G705 *D. vitrea* (SOWERBY III, 1915)

(= *Litiopa simplex* YOKOYAMA, 1927; *Australaba picta (pars) sensu* ITŌ, 1967)

- Type locality: 'Ise, Japan' (Ise bay, Mie prefecture, central Honshū).
- Distribution: Bōsō peninsula and southwards, northern Honshū to southern Kyūshū, P7-P5, Seto inland sea, Japan Sea (Sado island, J3-J1), EC5; Korea, northern China.
- Habitat: intertidal to 50 m., on seaweed.
- Original genus: *Diala*.

G706 *D. hungerfordi* (SOWERBY III, 1894-b)

(= *Alaba imbricata sensu* KIRA, 1946, HABE & KOSUGE, 1967)

Une-hama-tsubo

- Type locality: Hong Kong harbour, 40-60 ft.
- Distribution: southern Hokkaidō and southwards, P10-P5, Seto inland sea, Japan Sea (Noto peninsula, J3-J1), EC5; southern China.
- Habitat: intertidal on seaweed.
- Original genus: *Alaba*.

Family **OBTORTIONIDAE THIELE, 1925**

(= FINELLIDAE THIELE, 1929)

□ Genus *Clathrofenella* KURODA & HABE, 1952-a

Type species: *Dunkeria reticulata* A. ADAMS, 1860 (o. d.)

G707 *C. fusca* (A. ADAMS, 1860-e)

(= *Dunkeria reticulata* A. ADAMS, 1860; *Fenella asperulata* A. ADAMS *sensu* IWAKAWA, 1919; *Fenella orientalis* YOKOYAMA, 1920; *C. reticulata sensu* KURODA & HABE, 1952-a, KAWAMOTO & TANABE, 1956, HABE, 1964, K. ITŌ, 1967)

Nunome-motsubo (= Ogasawara-motsubo; Cha-iro-motsubo)

- Type locality: 'Tabu-Sima' (Tobishima, Japan Sea); 25 fms.
- Distribution: northeastern Honshū and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea.
- Habitat: intertidal to 30 m., sandy mud.

- Original genus: *Dunkeria*.

G708 *C. reticulata longa* ŌYAMA in Is. TAKI & ŌYAMA, 1954

Naga-ogasawara-motsubo

- Type locality: Numa, Tateyama city, Chiba prefecture, central Honshū (fossil).
- Distribution: Tōkyō bay.

G709 *C. asperulata* (A. ADAMS, 1860-f)  
(= *Dunkeria reticulata sensu* INABA, 1982)

Hoso-motsubo

- Type locality: Mishima (Japan Sea), 63 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5.
- Habitat: intertidal to 150 m., sandy mud.
- Original genus: *Dunkeria*.

G710 *C. shinonis* (YOKOYAMA, 1924)  
(= '*Clathrofenella scabra* A. Adams?' *sensu* KURODA & HABE, 1952-a; '*Dunkeria scabra*?' *sensu* ŌYAMA, 1973)

Shino-motsubo

- Type locality: Numa, Tateyama city, Chiba prefecture, central Honshū (fossil).
- Distribution: Tōkyō bay; Kyūshū (Genkai-nada).
- Habitat: intertidal to 30 m., sandy mud.
- Original genus: *Fenella*.

G711 *C. acuminata* (GOULD, 1861 in 1859-61)

- Type locality: 'Bonin Islands' (Ogasawara islands).
- Distribution: Ogasawara islands.
- Habitat: intertidal to 30 m., sandy mud.
- Original genus: *Alvania*.

G712 *C. kenonis* (YOKOYAMA, 1924)

- Type locality: Numa, Tateyama city, Chiba prefecture, central Honshū (fossil).
- Distribution: Tōkyō bay.
- Habitat: intertidal to 30 m., sandy mud.
- Original genus: *Fenella*.

G713 *C. yamakawai* (YOKOYAMA, 1924)

Yamakawa-motsubo

- Type locality: Numa, Tateyama city, Chiba prefecture, central Honshū (fossil).
- Distribution: Tōkyō bay.
- Habitat: intertidal to 30 m., sandy mud.
- Original genus: *Fenella*.

G714 *C. pulchella* (A. ADAMS, 1860-f)

- Type locality: 'off Mino-Sima' (Mishima, Japan Sea), 63 fms.
- Distribution: recorded only from type locality.
- Original genus: *Dunkeria*.

G715 *C. ferruginea* (A. ADAMS, 1860-i)

- Type locality: 'Sado' (Sado island, Japan Sea), 30 fms.

- Distribution: recorded only from type locality.
- Original genus: *Dunkeria*.

□ Genus *Eufenella* KURODA & HABE, 1952-a

Type species: *Finella pupoides* A. ADAMS, 1860 (o. d.)

G716 *E. pupoides* (A. ADAMS, 1860-j)

(= *Fenella perpupoides* YOKOYAMA, 1927; *Rissoa ichikawaensis* YOKOYAMA, 1927)

Motsubo (= Ichikawa-motsubo; Sanagi-motsubo)

- Type locality: 'Tsu-Sima' (Tsushima island, western Japan Sea), 26 fms. and Korea Strait, 46 fms.
- Distribution: northeastern Honshū and southwards, P9-P5, Japan Sea (Sado island, J3-J1), EC5.
- Habitat: intertidal in bays, sandy mud.
- Original genus: *Finella*.

G717 *E. rufocincta* (A. ADAMS, 1861-f)

(= *Rissoa septentrionalis* TOKUNAGA, 1906)

Shima-motsubo

- Type locality: 'Shan-tung' (Shandong province, China) and 'Lian-tung'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Sado island, J3-J1), EC5; China.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Dunkeria*.

**Notes:** Kuroda, Habe & Ōyama (1971) gave the type locality as 'Takanoshima, Chiba prefecture'.

G718 *E. subpellucida* KURODA & HABE in HABE, 1961-a

Tsuya-motsubo

- Type locality: Tomioka bay, Amakusa, western Kyūshū; 10-20 m., sandy mud.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5.
- Habitat: 5-30 m., sandy mud.

Family SCALIOLIDAE IREDALE & MCMICHAEL, 1962

□ Genus *Scaliola* A. ADAMS, 1860-f

Type species: *Scaliola bella* A. ADAMS, 1860 (o. d.)

G719 *S. bella* A. ADAMS, 1860-f

Suna-mochi-tsubo

- Type locality: 'Sea of Japan; off Tabu-Sima (Tobishima); 25 fathoms'.
- Distribution: northeastern Honshū and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5.
- Habitat: 5-30 m., sandy mud.

G720 *S. arenosa* A. ADAMS, 1862-h

- Type locality: 'O-sima; Tanabe' (Kii-Ōshima and Tanabe, Kii peninsula) and 'Simoda' (Shimoda, Izu peninsula).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (J2-J1), EC5.

- Habitat: intertidal to 30 m., sandy mud.

G721 *S. glareosa* A. ADAMS, 1862-h

Chibi-suna-mochi-tsubo

- Type locality: 'Tsushima' (western Japan Sea) and 'Takano-Sima' (Takanoshima, southern Bōsō peninsula, Chiba prefecture).
- Distribution: Bōsō peninsula and southwards, Ogasawara islands, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, Seto inland sea.
- Habitat: 5-30 m., sandy mud.

G722 *S. gracilis* A. ADAMS, 1862-h

Hoso-suna-mochi-tsubo

- Type locality: 'Gotto' (Gotō islands, off western Kyūshū); 71 fms.
- Distribution: Bōsō peninsula and southwards, Ogasawara islands, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, Seto inland sea.

Family POTAMIDIDAE H. & A. ADAMS, 1854

(= CERITHIDEIDAE HOUBRICK, 1988)

□ Genus *Telescopium* MONTFORT, 1810 in 1808-10

Type species: *Trochus telescopium* LINNAEUS, 1758 (o. d.)

G723 *T. telescopium* (LINNAEUS, 1758)

(= *T. indicator* MONTFORT, 1810; *T. fuscum* SCHUMACHER, 1817; *T. mauritsi* BUTOT, 1974)  
Sen-nin-gai

- Type locality: none designated.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, Australia, Indo-western Pacific.
- Habitat: brackish water, on mud among mangroves in bays.
- Original genus: *Trochus*.

□ Genus *Terebralia* SWAINSON, 1840

Type species: *Strombus palustris* LINNAEUS, 1767 (o. d.)

G724 *Tb. palustris* (LINNAEUS, 1767)

(= *Strombus trisulcatus* FORSKÅL, 1775; *S. angustus* GMELIN, 1791; *S. carinatum* PERRY, 1811; *S. carnaticum* PERRY, 1811 *sensu* WILSON, 1993; *S. crassum* LAMARCK, 1822 in 1815-22; *T. caledonica* JOUSSEAUME, 1884; *T. palustre* var. *tryoni* KOBELT, 1895; *T. palustis* auct.)

Kiba-umi-nina

- Type locality: 'in Indiae paludibus' (marshes of India).
- Distribution: Okinawa (Ogimi district, mangroves at mouth of Takazato river KUBO, 1996-b) and southwards, P2; Philippines, western Pacific.
- Habitat: on mud in bays and among mangroves.
- Original genus: *Strombus*.

G725 *Tb. sulcata* (BORN, 1778)

(= *Strombus fuscus* GMELIN, 1791; *S. moluccanus* GMELIN, 1791; *S. mangos* RÖDING, 1798; *Murex semistriatum* MÖRCH, 1852; *M. semitrisulcatus* TRYON, 1887)

Mado-mochi-umi-nina

- Type locality: none designated.
- Distribution: Amami Ōshima and southwards, ECP3-ECP2, P2; Philippines, Indo-western Pacific.
- Habitat: brackish water among mangroves.
- Original genus: *Trochus*.

□ Genus *Cerithidea* SWAINSON, 1840

Type species: '*Cerithidea lineolata* GRIFFITH & PIDGEON' (s. d. MAKIYAMA, 1936; = *Murex decollatus* LINNAEUS, 1767)

(= *Phaenommia* MÖRCH, 1860; *Aphanistylus* P. FISCHER, 1884)

G726 *C. rhizophorarum* A. ADAMS, 1855-i

Futo-henatari

- Type locality: Cagayan, Mindanao, Philippines; on roots of mangroves (*Rhizophora*) in estuaries near the sea.
- Distribution: northern Honshū and southwards, P9-P5, Seto inland sea, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2, P2; Philippines, Korea, western Pacific.
- Habitat: intertidal in bays or reed flats, on mud.

G727 *C. ornata* SOWERBY II, 1855 in 1842-87

Shima-henatari

- Type locality: 'Ticao (Philippines), in marshy places, salt water'.
- Distribution: Seto inland sea (Okayama and Yamaguchi prefectures), northern Kyūshū (Fukuoka prefecture), western Kyūshū (Ariake inland sea) (OKAMOTO, 1995-b); Korea, China, Philippines.
- Habitat: intertidal, salt marshes and reeds.

G728 *C. largillierti* (PHILIPPI, 1848)

(= *Cerithidea fortunei* A. ADAMS, 1855)

Kuro-henatari

- Type locality: 'China'.
- Distribution: Tōkyō bay, Seto inland sea, western Kyūshū (Ariake inland sea) (OKAMOTO, 1995-a); Korea, China.
- Habitat: intertidal in bays or reed flats, on mud.
- Original genus: *Cerithium* (*Potamides*).

G729 *C. morchii* SOWERBY II, 1855 in 1842-87

Itokake-henatari

- Type locality: none designated; described as 'this northern species'.
- Distribution: Amami islands and southwards, Okinawa; China, Philippines, southeast Asia.
- Habitat: intertidal, salt marshes.

□ Genus *Cerithideopsis* THIELE, 1929

Type species: *Cerithium fluviatilis* POTIEZ & MICHAUD, 1836 (o. d.; = *Murex cingulata* GMELIN, 1791)

**G730 *Ce. cingulata* (GMELIN, 1791)**

(= *Cerithium fluviatilis* POTIEZ & MICHAUD, 1836; *Potamides* (*Tympanotonos*) *micropterus sensu* IWAKAWA, 1919; *Cerithidea* (*Cerithiopsilla*) *micropterus sensu* S. HIRASE, 1934)

Henatari

- Type locality: 'Tranquebariae' (Tranquebar coast, southern India).
- Distribution: Fukushima prefecture and southwards, P8-P5, Japan Sea (northern Yamagata prefecture, J1), EC5; Korea, Indo-western Pacific.
- Habitat: intertidal in brackish water on flats in inner bays.
- Original genus: *Murex*.

**G731 *Ce. microptera* (KIENER, 1873 in 1834-80)**

(= *C. cingulata microptera sensu* HIGO & GOTÔ, 1993 *err. pro -ptera*)

Suehiro-henatari

- Type locality: 'l'océan Indien' (Indian Ocean).
- Distribution: Okinawa islands and southwards, P2; southern China.
- Habitat: intertidal in brackish water on flats in bays.
- Original genus: *Cerithium*.

**G732 *Ce. djadjariensis* (K. MARTIN, 1899)**

(= *Potamides* (*Tympanotonos*) *fluviatilis sensu* IWAKAWA, 1919; *Cerithidea* (*Cerithideopsilla*) *cingulatus sensu* S. HIRASE, 1934; *Ce. cingulata sensu* KURODA & HABE, 1952-a; *Ce. djadjariensis* (MARTENS) (*sic sensu* SAKURAI, 1986)

Kawa-ai

- Type locality: 'vom Tji Djadjar bei Parungdjadja in Madjalengka' (western Java, Indonesia; fossil).
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2; Korea, southeast Asia.
- Habitat: intertidal in bays, on mud.
- Original genus: *Potamides* (*Cerithidea*).

Family **BATILLARIDAE THIELE, 1929**

□ Genus ***Batillaria* BENSON, 1842**

Type species: *Cerithium zonalis* BRUGUIÈRE, 1792 in 1789-1816 (o. d.)

(= *Lampania* GRAY, 1847)

**G733 *B. zonalis* (BRUGUIÈRE, 1792 in 1789-1816)**

(= *Lampania aterrima* DUNKER, 1877)

Ibo-umi-nina (= Obi-umi-nina)

- Type locality: none designated; a specimen in a figure from Lister captioned 'West Indies' was mentioned by Bruguière, but deliberately excluded from this species because it was not described.

- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2; Korea, Indo-western Pacific.

- Habitat: intertidal in bays, on mud.

- Original genus: *Cerithium*.

**G734 *B. multiformis* (LISCHKE, 1869 in 1869-74)**

Umi-nina

- Type locality: 'Mare Japonicum' (Japanese seas).
- Distribution: southern Hokkaidō and southwards, northern Honshū to southern Kyūshū, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea.
- Habitat: subtidal on sheltered flats in bays, on mud, rocks and rubble.
- Original genus: *Lampania*.

**G735 *B. cumingii* (CROSSE, 1862-a)**

Hoso-umi-nina

- Type locality: northern China.
- Distribution: Sakhalin and southwards, OP, P10-P5, Japan Sea (J6-J1), EC5; Korea, China, Primoriye region (Japan Sea coast of Russia).
- Habitat: offshore tidal flats, in mud among rocks.
- Original genus: *Lampania*.

**G736 *B. bornii* (SOWERBY II, 1887 in 1842-87)**

(= *Cerithium tuberculata* BORN, 1778 *non* LINNAEUS, 1758; *B. tuberculata* 'Linne' *sensu* DAUTZENBERG & FISCHER, 1905; *B. borni* (*sic sensu* KURODA & HABE, 1952-a, KURODA, 1960; *B. bronii* (*sic sensu* HABE, 1964; *B. bronni* (*sic sensu* HIGO, 1973, HIGO & GOTÔ, 1993)

Kuwanomi-umi-nina

- Type locality: Seychelles.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, western Pacific.
- Habitat: intertidal, sandy mud.
- Original genus: *Cerithium*.

**G737 *B. flectosiphonata* OZAWA, 1996**

(= *Batilliria aff. B. zonalis* (BRUGUIÈRE) *sensu* MACNEIL, 1961; *B. zonalis* (BRUGUIÈRE) *sensu* NODA, 1971; *B. multiformis sensu* KUBO & KUROZUMI, 1995 (*pars*))

Ryūkyū-umi-nina

- Type locality: Komi, western Iriomote island (Okinawa group); intertidal, rocks.
- Distribution: western Kyūshū, Okinawa islands (Iriomote; Ishigaki; Okinawa).
- Habitat: intertidal, rock substrate.

Family **TURRITELLIDAE LOVÉN, 1847**

Subfamily **TURRITELLINAE WOODWARD, 1851**

□ Genus ***Turritella* LAMARCK, 1799**

Type species: *Turbo terebra* LINNAEUS, 1758 (o. d.)

(Refs.: Ōtsuka, 1938)

G738 *T. crocea* **KIENER, 1844 in 1834-80**

- Type locality: none designated.
- Distribution: 'Japan Sea coast at 36° N.' (KURODA & HABE, 1952-a).

**Notes:** Kiri-gai-damashi *Turbo terebra* LINNAEUS, 1758 (type locality: 'in *O. Europaeo*', probably erroneous) was provisionally recorded from the Ogasawara islands (Chichijima KURATA *et al.*, 1969) but the present authors have been unable to confirm distribution of this species in Japan.

□ Genus *Torcula* **GRAY, 1847**

Type species: *Turbo exoletus* LINNAEUS, 1758 (o. d.)

G739 *T. monilifera* (**ADAMS & REEVE, 1850 in 1848-50**)

- (= *T. concava sensu* KURODA & HABE, 1952-a, KURODA, 1960; *T. monilifera* REEVE (sic) *sensu* HABE & KOSUGE, 1966, HIGO, 1973, HIGO & GOTŌ, 1993)  
Shiro-kiri-gai-damashi
- Type locality: 'China Sea'.
  - Distribution: Amami Ōshima and southwards, ECP3-ECP2; western Pacific.
  - Habitat: 10-50 m., sandy mud.
  - Original genus: *Turritella*.

□ Genus *Haustator* **MONTFORT, 1810 in 1808-10**

Type species: *Turritella (Haustator) gallicus* MONTFORT, 1810 (o. d.; = *Turbo imbricatus* LINNAEUS, 1758)

(= *Gazameda* IREDALE, 1924)

Subgenus *Kurosoia* **IDA, 1952**

Type species: *Turritella (Kurosoia) kurosio* IDA, 1952 (o. d.)

G740 *H. (K.) cingulifera* (**SOWERBY I, 1825**)

- (= *Turritella fascialis* MENKE, 1828; *T. tricarinata* KING, 1832; *T. bicolor* ADAMS & REEVE, 1850 in 1848-50; *T. fuscotincta* PETIT, 1853; *T. gracillima* GOULD, 1861; *T. fragilis* KIENER, 1873; *T. parva* ANGAS, 1877; *H. (K.) cingulata sensu* OKUTANI, 1975)  
Hime-kiri-gai-damashi (= Itomaki-kiri-gai-damashi)
- Type locality: 'East Indies'.
  - Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Niigata prefecture, J3-J1), EC5, ECP4-ECP2, P2; Korea, Philippines, northern Australia, tropical Pacific.
  - Habitat: 5-155 m., sand.
  - Original genus: *Turritella*.

□ Genus *Neohaustator* **IDA, 1952**

Type species: *Turritella nipponica* YOKOYAMA, 1920 (o. d.)

G741 *N. nipponica* (**YOKOYAMA, 1920**)

Hoso-ezo-kiri-gai-damashi

- Type locality: Koshihira bed, Kanagawa prefecture (near Tōkyō) (fossil).
- Distribution: Japan Sea (Noto peninsula and northwards, J3-J5), Hokkaidō; Korea.
- Habitat: 30-100 m., mud.
- Original genus: *Turritella*.

G742 *N. fortilirata fortilirata* (**SOWERBY III, 1914-c**)

(= *Turritella coreanica* KOTAKA, 1951; *T. fortilirata multilirata* KOTAKA, 1951)

Ezo-kiri-gai-damashi

- Type locality: 'Nemura, Yesso' (Nemuro, Hokkaidō).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and northwards, Iwate prefecture (Ōtsuchi bay TSUCHIDA, 1990), P7-P10, Japan Sea (Wakasa bay, J2-J5); Yellow Sea, north Korea.
- Habitat: 30-300 m., sandy mud.
- Original genus: *Turritella*.

G743 *N. fortilirata tibana* (**NOMURA, 1940**)

- Type locality: off Miyagi prefecture, northeastern Honshū.
- Distribution: recorded only from type locality.
- Original genus: *Turritella*.

G744 *N. huziokai* **IDA, 1959**

(= *Neohaustator nipponica (pars) sensu* HIGO, 1973)

Maru-ezo-kiri-gai-damashi

- Type locality: off Cape Erimo, Hokkaidō.
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, Hokkaidō.

G745 *N. andenensis* (**ŌTSUKA, 1934**)

(= *Turritella fujitai* 'KURODA, 1934 (?)' *sensu* ŌTSUKA, 1938)

Fujita-ezo-kiri-gai-damashi (= Saiwai-kiri-gai-damashi)

- Type locality: Yasuda, Oga peninsula, northern Japan Sea.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and northwards, P7-P10, Japan Sea (northern Yamaguchi prefecture, J2-J5), Hokkaidō; Korea.
- Habitat: 30-200 m., sandy mud.
- Original genus: *Turritella*.

G746 *N. tsushimaensis* (**KOTAKA, 1951**)

Tsushima-kiri-gai-damashi

- Type locality: off Tsushima, western Japan Sea.
- Distribution: Bōsō peninsula and northwards, P8-P10, Hokkaidō, western Kyūshū and northwards, Tsushima strait, Japan Sea (J1-J5); Korea.
- Habitat: 30-260 m., sandy mud.
- Original genus: *Turritella*.

□ Genus *Tachyrhynchus* **MÖRCH, 1868**

Type species: *Turritella reticulatus* MIGHELS & ADAMS,



1842 (o. d.)

G747 *T. reticulatus* (MIGHELS & ADAMS, 1842)

Yuki-hime-nina

- Type locality: Chaleur bay, between New Brunswick and Gaspé peninsula, Quebec (eastern Canada).
- Distribution: northeastern Honshū (Ōtsuchi bay TSUCHIDA, 1990) and northwards, P9-P10, Japan Sea (Noto peninsula, J3-J5), OP, Hokkaidō; Alaska, northern Atlantic Ocean.
- Habitat: 50-1500 m., coarse sand and stones.
- Original genus: *Turritella*.

G748 *T. subvenustellus* OKUTANI, 1964-b

Sagami-hime-nina

- Type locality: 'Sōyō-Maru' sta. 118, Sagami bay, central Honshū: 35° 09.9' N., 139° 30.4' E., 700 m.
- Distribution: recorded only from type locality.

G749 *T. erosus erosus* (COUTHOUY, 1839)

- Type locality: Massachusetts bay to the coast of Maine (northeastern USA, Atlantic Ocean).
- Distribution: Hokkaidō (KURODA & KINOSHITA, 1951), Kuril islands, Alaska to northern Atlantic.
- Habitat: 12-355 m., on silty sand and shell debris.
- Original genus: *Turritella*.

G750 *T. erosus major* DALL, 1919

Kiri-hime-nina

- Type locality: Pribilof islands, Bering Sea, 51 fms.
- Distribution: Kuril islands and northwards; Bering Sea, Okhotsk Sea, Alaska.
- Habitat: 50-100 m.

Subfamily **TURRITELLOPSINAE MARWICK, 1957**

□ Genus *Turritellopsis* G. O. SARS, 1878

Type species: *Turritella acicula* STIMPSON, 1851 (o. d.) (= *Kimberia* COTTON & WOOD, 1935)

G751 *T. acicula stimpsoni* DALL, 1919

(= *T. acicula* SARS, 1878 non STIMPSON, 1851; *T. acicula sensu* GOLIKOV, 1995)

Yuki-no-kiri-nina

- Type locality: northern Norway (Arctic Ocean).
- Distribution: Japan Sea (Niigata prefecture and northwards, J3-J5), Kuril islands; Bering Sea, Alaska, northern USA, Arctic Ocean.
- Habitat: 50-350 m., coarse sand and stones or sandy mud.

Subfamily **ORECTOSPIRINAE HABE, 1955**

□ Genus *Orectospira* DALL, 1925

Type species: *Basilissa (Orectospira) babelica* DALL, 1907 (mt.)

G752 *O. babelica* (DALL, 1907)

Baberu-ura-uzu-kanimori

- Type locality: 'Albatross' sta. 4972, off Yokohama: 33°

25.45' N., 135° 33.0' E., fine sandy mud.

- Distribution: 'Pacific side, 33° N.' (KURODA & HABE, 1952-a).
- Original genus: *Basilissa*.

G753 *O. tectiformis* (WATSON, 1880 in 1879-83)

(= *O. babelica* DALL *sensu* HABE, 1964)

Sobie-ura-uzu-kanimori (= Kasa-ura-uzu-kanimori)

- Type locality: 'Challenger' sta. 235 off eastern Japan: 34° 7' N., 138° 00' E., 567 fms., mud.
- Distribution: Sagami bay (OKUTANI, 1964-b; 1968), Kumano-nada and westwards (Kii peninsula TSUCHIDA, 1985-b), southern Shikoku, off southwestern Kyūshū.
- Habitat: 500-1000 m., fine sandy mud.
- Original genus: '*Echinella?*'.

G754 *O. shikokuensis* (YOKOYAMA, 1928)

(= '*Trochocerithium? excelsum vivum* KURODA' *sensu* KURODA & HABE, 1952-a; *O. tectiformis sensu* AZUMA, 1960, HABE, 1964, OKUTANI, 1975) Ura-uzu-kanimori

- Type locality: Taiwan (fossil).
- Distribution: Sagami bay and westwards, Enshū-nada, Kii peninsula (off Cape Shio), Tosa bay; Taiwan.
- Habitat: 200-800 m., fine sand.
- Original genus: *Cerithium*.

G755 *O. excelsum* (YOKOYAMA, 1928)

Hoso-ura-uzu-kanimori

- Type locality: Kounji, Takanabe, Miyazaki prefecture, Kyūshū (fossil).
- Distribution: southern Shikoku (100-500 m., sand); near Danjo islands (150 m., sand).
- Original genus: *Cerithium*.

Family **SILIQUARIIDAE ANTON, 1838**

(= TENAGODIDAE GILL, 1871)

□ Genus *Tenagodus* GUETTARD, 1770

Type species: *Serpula anguina* LINNAEUS, 1758 (s. d. H. & A. ADAMS, 1854 in 1853-58)

(= *Siliquaria* BRUGUIÈRE, 1789 in 1789-1816;

*Tenagodes*, *Tenagoda*, *Silicaria* auct.)

Subgenus **Agathirsus MONTFORT, 1808 in 1808-10**

Type species: *Agathirsus furcellus* MONTFORT, 1808 (o. d.)

(= *Agathysus* HERRMANNSEN, 1846; *Agathinus*, *Agathirsis*, *Agathirsus* auct.)

(Refs.: BIELER, 1992)

G756 *T. (A.) anguina* (LINNAEUS, 1758)

Koke-mimizu-gai

- Type locality: 'in India'.
- Distribution: Bōsō peninsula and southwards, Ogasawara islands, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, East China Sea, ECP4-ECP2; western Pacific.

- Habitat: 20-200 m., in sponges.
- Original genus: *Serpula*.

G757 *T. (A.) armata* (HABE & KOSUGE, 1967)

Murasaki-mimizu-gai (= Murasaki-koke-mimizu)

- Type locality: Sagami bay, central Honshū; 50-100 m., in sponges.

• Distribution: Sagami bay and southwards, P11, Ogasawara islands, P6-P5, EC5.

- Habitat: 50-200 m., in sponges.

• Original genus: *Siliquaria*.

**Note:** cited as KURODA, HABE & KOSUGE, 'nov.' in KURODA *et al.*, 1971 but figure and description (p. 32, in Japanese) appeared first in Habe & Kosuge (1967).

G758 *T. (A.) cumingii* MÖRCH, 1860

Mimizu-gai

- Type locality: 'Ins. Philippin.' (Philippines).
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2; Korea, Philippines, western Pacific.
- Habitat: 10-200 m., in sponges.

G759 *T. (A.) trochlearis* MÖRCH, 1860

Karami-mimizu-gai

- Type locality: none designated (Cuming collection).
- Distribution: Ogasawara islands and southwards, Tosa bay, P5, EC5, East China Sea, ECP4-ECP2, P2.
- Habitat: 20-200 m., in sponges.

Superfamily CAMPANILOIDEA DOUVILLE, 1904

Family PLESIOTROCHIDAE HOUBRICK, 1990

□ Genus *Plesiotrochus* FISCHER, 1878

Type species: *Plesiotrochus sowerbianus* FISCHER, 1878 (mt.)

G760 *P. acutangulus* (YOKOYAMA, 1924)

Chigusa-kanimori

- Type locality: Numa, Tateyama City, Chiba prefecture, central Honshū (fossil).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2.
- Habitat: intertidal to 20 m., on seaweed.
- Original genus: *Bittium*.

G761 *P. uncinatus* (A. ADAMS, 1853-b)

(= *Tectarius luteus* GOULD, 1861; *Trochus exilis* PEASE, 1868; *Plesiotrochus sowerbianus* P. FISCHER, 1878)

Hime-chigusa-kanimori

- Type locality: 'Lord Hood's Island' (probably Marutea: 21° 30' S., 135° 33' W., Pacific Ocean) 'on pearl oysters, 8 to 10 fathoms'.
- Distribution: Kii peninsula and southwards, Ogasawara islands, P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2; western Pacific.

- Habitat: intertidal on seaweed.

• Original genus: *Ziziphinus*.

Suborder HYPSOGASTROPODA PONDER & LINDBERG, 1997

Infraorder LITTORINIMORPHA GOLIKOV & STAROBOGATOV, 1975

Superfamily LITTORINOIDEA GRAY, 1840

Family LITTORINIDAE GRAY, 1840

Subfamily LITTORININAE GRAY, 1840

(Refs.: Rosewater, 1973)

□ Genus *Littorina* FÉRUSAC, 1822

Type species: *Turbo littoreus* LINNAEUS, 1758 (s. d. BLAINVILLE, 1828)

(= *Turbinarius* FRORIEP in DUMÉRIL, 1806; *Litorina* MENKE, 1828; *Littorelaea* LEACH, 1847; *Litorina* MÖRCH, 1849; *Bacalia* GRAY *sensu* H. & A. ADAMS, 1854 *nom. nud.*; *Littorina* DALL, 1884; *Isonema* HALL in PROVANCHER, 1891 *non* MEEK & WORTHERN, 1866; *Littornia* JENKINS & GROCOCK, 1891; *Algaroda* DALL, 1918; *Neritotrema* RÉCLUZ in WENZ, 1939; *Ezolittorina* HABE, 1958; *Brevilittorina* DOLGOLENKO *et al.*, 1990 *nom. nud.*)

(Refs.: Reid, 1996)

Subgenus *Littorina s. str.*

G762 *L. (L.) squalida* BRODERIP & SOWERBY, 1829

(= *L. grandis* MIDDENDORFF, 1848; *L. palliata* SCHLESCH, 1924; *L. etolonensis, praesqualida* SINELNIKOVA in GLADENKOV & SINELNIKOVA, 1990)

Ezo-tama-kibi

- Type locality: 'in Oceano Boreali' (Polar Ocean); restricted to 'Icy Cape' (near Wainwright, northwestern Alaska, REID, 1996).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and northwards, Iwate prefecture, Hokkaidō, Kuril islands; Sakhalin, Okhotsk Sea, Bering strait.
- Habitat: intertidal on rocks.

G763 *L. (L.) brevicula* (PHILIPPI, 1844)

(= *L. balteata* REEVE, 1857; *L. souverbiana* CROSSE, 1862; *L. brevicula forma elatior, depressior, costulata, laevigata* all SCHRENCK, 1867; *L. mandshurica sensu* PILSBRY, 1895 (*pars*); *L. sitchana sensu* BAVAY, 1920 (*pars*); *L. heterospiralis* GRABAU & KING, 1928; *Leptothyra sakaensis* ŌYAMA, 1953; *L. itelmenica* SINELNIKOVA in GLADENKOV & SINELNIKOVA, 1990)

Tama-kibi

- Type locality: mouth of the Yangtse river, China.
- Distribution: Hokkaidō and southwards, northern Honshū to southern Kyūshū, P10-P5, Japan Sea (J4-J1), EC5; Korea, southern China.

- Habitat: highest tide line, on rocks.

- Original genus: *Turbo* (*Litorina*).

G764 *L. (L.) mandshurica* SCHRENCK, 1867

(= *L. litorea* sensu JEFFREYS, 1883 (*pars*) non LINNAEUS, 1758; *L. mandshurica* var. *elator*, *depressior*, *carinata*, *laevigata* all SCHRENCK, 1867; *L. brevicula* sensu ROSEWATER, 1970 (*pars*); *L. brevicula* sensu KURODA *et al.*, 1971 (*pars*))

Atsu-tama-kibi

- Type locality: Castries bay, Siberia.
- Distribution: Hokkaidō and northwards, Kuril islands; Primoriye region (Japan Sea coast of Russia), Okhotsk Sea.
- Habitat: intertidal on rocks.

G765 *L. (L.) kasatka* REID, ZASLAVSKAYA & SERGIEVSKY, 1991

(= *L. kurila* GOLIKOV & KUSAKIN, 1978 (*pars*))  
Nise-kuro-tama-kibi

- Type locality: Kasatka point, Iturup island, Kuril islands.
- Distribution: Hokkaidō (Aikappu near Akkeshi and east of Nemuro REID, 1996), Okhotsk Sea, Kuril islands; Kamchatka.
- Habitat: intertidal on rubble & boulders.

Subgenus *Neritrema* RÉCLUZ, 1869

Type species: *Turbo obtusatus* LINNAEUS, 1758 (s. d. DALL, 1909)

(= *Neritoides* BROWN, 1827; *Littorivaga* DALL, 1918; *Algamorda* DALL, 1918)

G766 *L. (N.) sitkana* PHILIPPI, 1846

(= *L. cincta* GOULD, 1847 non QUOY & GAIMARD, 1833; *L. kurila* MIDDENDORFF, 1848; *L. subtenebrosa* MIDDENDORFF, 1848; *L. sitchana* var. *castaneus* MIDDENDORFF, 1849 non *castanea* DESHAYES, 1843; *L. arctica* REEVE, 1857 (*pars*); *L. rudis* COOPER, 1860 (*pars*); *L. rudis* DALL, 1921 (*pars*); *L. sulcata* GOULD sensu CARPENTER, 1864; *L. sitchana* var. *modesta* CARPENTER, 1864 non *Littorina modesta* PHILIPPI, 1846; *L. tenebrosa* var. *costulata*, *laevigata*, *depressior*, *elator*, *fusca*, *fasciata*, *albida*, *zonata* all SCHRENCK, 1867; *L. gouldiana* WEINKAUFF, 1882; *L. tenebrosa* var. *obtusataea*, *costulata* AURIVILLIUS, 1885; *L. sitchensis* NEVILL, 1885; *Littorina sitkana* var. *atkana* DALL, 1886; *L. (Littorivaga) saxatile saxatile* LA ROQUE, 1953)

Kuro-tama-kibi (= Maru-tama-kibi)

- Type locality: Sitka, Alaska.
- Distribution: Fukushima prefecture and northwards, Japan Sea (Tobishima), Hokkaidō, Kuril islands; Korea, Sakhalin, Kamchatka peninsula, Bering Sea, Alaska.
- Habitat: intertidal on rocks.

G767 *L. (N.) natica* REID & GOLIKOV, 1996

(= *L. (L.) kurila* GOLIKOV & KUSAKIN, 1978 (*pars*); *L.*

*kurila* KUSAKIN & IVANOVA, 1978 non

MIDDENDORFF, 1848; *L. sitchana* KUSAKIN & IVANOVA, 1978 non PHILIPPI, 1847; *L. naticoides* REID & GOLIKOV, 1991 non D'ORBIGNY, 1841)

Maru-kuro-tama-kibi

- Type locality: Milne bay, Simushir island, Kuril islands.
- Distribution: Kuril islands, southern and western Kamchatka peninsula, Anadyrskiy Gulf.
- Habitat: intertidal among mussels, on seaweeds (*Halosaccion* and *Alaria*).

G768 *L. (N.) horikawai* MATSUBAYASHI & HABE in HABE, 1979

(= *L. mononema* PILSBRY MS)

• Type locality: Nejiko, Hirado island, Nagasaki prefecture, western Kyūshū.

• Distribution: northern and western Kyūshū (Cape Hado near Karatsu, Saga prefecture; Hirado island, Ushibuka, Tsushima, Kuroshima, Yakushima, REID, 1996), Tanegashima (YUKITA, pers. comm. in REID, 1996).

• Habitat: upper littoral, rocks.

□ Genus *Nodilittorina* MARTENS, 1897

Type species: *Trochus nodulosus* GMELIN, 1791 (o. d.) (= *Echinolittorina* HABE, 1956)

G769 *N. vidua* (GOULD, 1859 in 1859-61)

(= *Littorina granularis* GRAY auct. non GRAY, 1839; *L. melanacme* E. A. SMITH, 1876; *L. chaoi* YEN, 1936; *Granulittorina philippiana* HABE & KOSUGE, 1966-b) Taiwan-tama-kibi (= Maru-arare-tama-kibi)

- Type locality: 'Ousima' (Amami-Ōshima).
- Distribution: western Japan Sea (northern Yamaguchi prefecture IKEDA & TADA, 1963), Kyūshū and southwards; Philippines.
- Habitat: intertidal on rocks.

**Notes:** the type of this species has been lost (NMNH type collection, note).

• Original genus: *Littorina*.

G770 *N. radiata* (SOULEYET in EYDOUX & SOULEYET, 1852)

(= *Littorina exigua* DUNKER, 1860; *Tectarius granularis* sensu IWAKAWA, 1919; *L. (Littorivaga) millegrana* sensu KURODA, 1928, S. HIRASE, 1934; *N. granularis* sensu HABE, 1951, KIRA, 1962; *N. exigua* sensu ROSEWATER, 1970, KURODA *et al.*, 1971, OKUTANI, 1975, SAKURAI, 1986)

Arare-tama-kibi

- Type locality: 'Touranne, Cochinchine' (Vietnam).
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea, China, Vietnam.
- Habitat: high tide line, rocks.

- Original genus: *Littorina*.

**G771 *N. ventricosa* (PHILIPPI, 1847)**

(= *Littorina ventricosa strubelli* MARTENS, 1897)

- Type locality: 'Pulo Pinang' (Penang island, Malaysia).
- Distribution: Amami islands and southwards, Ogasawara islands, ECP3-ECP2, P2; Philippines, Malaysia.
- Habitat: intertidal, on rocks.
- Original genus: *Littorina*.

**G772 *N. trochoides* (GRAY, 1839)**

(= *Trochus nodulosus* GMELIN, 1791 non SOLANDER in BRANDER, 1766; *Turbo trochiformis* DILLWYN, 1817 non BROCCCHI, 1814; *Littorina vilis* MENKE *sensu* PHILIPPI, 1846; *L. malaccana* PHILIPPI, 1847; *L. cecillei* PHILIPPI, 1851; *Littorina monilifera* EYDOUX & SOULEYET, 1852; *N. pyramidalis* (QUOY & GAIMARD) *sensu* HABE & KOSUGE, 1967, ROSEWATER, 1970, OKUTANI, 1975, SAKURAI, 1986, FUKUDA, 1993)

Ibo-tama-kibi

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, Ogasawara islands, P7-P5, Japan Sea (Tsushima, J1), EC5, ECP4-ECP2; Indo-western Pacific.
- Habitat: upper tidal level and above, on rocks.
- Original genus: *Littorina*.

**G773 *N. leucosticta biangulata* (MARTENS in WEBER, 1897)**

(= '*Littorivaga? subnodosa sensu* KURODA, 1940; *Littorina subnodosa sensu* KURODA, 1941; *Tectarius subnodosus sensu* KURODA & HABE, 1952-a, KURODA, 1960)

Kasuri-tama-kibi

- Type locality: Bankulen, Sumatra, Indonesia.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, Indo-western Pacific.
- Habitat: uppermost tidal level, on rocks.
- Original genus: *Littorina*.

□ Genus ***Littoraria* GRIFFITH & PIDGEON, 1834**

Type species: *Littorina pulchra* SOWERBY I, 1832 (mt.; = *Turbo zebra* DONOVAN, 1825)

(Refs.: Reid, 1986)

Subgenus ***Littoraria s. str.***

**G774 *L. (L.) undulata* (GRAY, 1839)**

(= *Littorina tenuis* PHILIPPI, 1846; *Littorina columna* JONAS *sensu* PHILIPPI, 1847; *Littorina acuminata* GOULD, 1849; *L. scabra concolor* WEINKAUFF, 1878; *L. undulata contracta* NEVILL, 1885; *L. undulata sulcatula* NEVILL, 1885; *L. conica subintermedia* NEVILL, 1885)

Hoso-suji-uzura-tama-kibi

- Type locality: none designated.

- Distribution: Suruga bay and southwards, Ogasawara islands, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Indo-western Pacific.

- Habitat: high spring tide line, on rocks & driftwood.

- Original genus: *Littorina*.

**G775 *L. (L.) coccinea* (GMELIN, 1791)**

(= *Limax coccinea* MARTYN, 1788 (invalid: ICZN op. 456); *Littorina obesa* SOWERBY I, 1832; *L. limax* GRAY, 1839)

Teri-tama-kibi

- Type locality: '*in nova Seelandia*' (New Zealand).
- Distribution: Ogasawara islands and southwards, southern Kyūshū, ECP4-ECP2, P2; Philippines, central to southwestern Pacific.
- Habitat: high tidal level and above, on rocks and driftwood.
- Original genus: *Helix*.

**G776 *L. (L.) pintado* (WOOD, 1828 in 1818-28)**

(= *Littorina tenebrata* NUTTALL *sensu* JAY, 1839; *Littorina serialis* EYDOUX & SOULEYET, 1852; *Littorina pindata* PHILIPPI in WEINKAUFF, 1882; *Littorina ambigua* REEVE in WEINKAUFF, 1882)

Kōdaka-tama-kibi

- Type locality: 'Sandwich Isl.' (Hawaii).
- Distribution: Ogasawara islands and southwards, Kii peninsula, ECP3-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: highest tidal level, on rocks.
- Original genus: *Turbo*.

Subgenus ***Littorinopsis* MÖRCH, 1876**

Type species: *Littorina angulifera* LAMARCK, 1822 (o. d.)

**G777 *L. (Littorinopsis) scabra* (LINNAEUS, 1758)**

(= *Buccinum lineatum* GMELIN, 1791 non DACOSTA, 1778; *Littorina novaehiberniae* LESSON, 1831; *L. luteola* QUOY & GAIMARD, 1832; *L. cingulata* PHILIPPI, 1846; *L. sulculosa* PHILIPPI, 1846; *Littorina scabra flammulata* PHILIPPI, 1847; *Littorina scabra articulata* MENKE *sensu* PHILIPPI, 1847; *Littorina scabra punctata, suturalis, lutea, rubra, ventricosa, flammea, sinensis*, all PHILIPPI, 1847; *Littorina albicans* METCALFE, 1852; *Littorina philippiana, newcombi, fortunei*, all REEVE, 1857; *Littorina scabra minor* WEINKAUFF, 1878; *Littorina scabra 'pallescens?'*, *erronea, filosa subcingulata, conica delicatula*, all NEVILL, 1885; '*Leptopoma?*' *ardouinianum* HEUDE, 1885; *Littorina philippiana* MARTENS, 1900 non REEVE, 1857; *Melaraphe (Littorinopsis) scabra intermedia sensu* S. HIRASE, 1934; *Littorina (Melaraphe) scabra rhodea* BIGGS, 1958)

Uzura-tama-kibi

- Type locality: none originally given; designated

'Amboina, Moluccas' (ROSEWATER, 1970). Redesignated 'Magnetic Island, Queensland, Australia' (REID, 1986).

• Distribution: Kii peninsula, P11, Ogasawara islands, southwestern Kyūshū, ECP3-ECP2, P2; Philippines, Indo-western Pacific.

• Habitat: intertidal in mangroves and on rocks.

• Original genus: *Helix*.

G777-1 *L. (Littorinopsis) intermedia* (PHILIPPI, 1846) (= *Littorina intermedia* var. *punctata* PHILIPPI, 1847; *L. scabra* var. *articulata* PHILIPPI, 1847; *Littorina ambigua* REEVE, 1857; *L. fraseri* REEVE, 1857; *Littorina pintado sensu* MARTENS, 1871 (*pars*) non WOOD, 1828 in 1818-28; *Littorina pintado sensu* PEASE, 1868 non WOOD, 1828 in 1818-28; *Littorina (Littoraria) pintado pintado sensu* ROSEWATER, 1970 (*pars*) non WOOD, 1828 in 1818-28; *Littorina (Melaraphe) planaxis sensu* TRYON, 1887 non PHILIPPI, 1847)

Hime-uzura-tama-kibi

• Type locality: none originally given; designated 'Tahiti' (REID, 1986).

• Distribution: Seto inland sea, Ariake inland sea and other landlocked bays, Ogasawara islands (Chichijima FUKUDA, 1993); Indo-Pacific, Australia, Tahiti.

• Habitat: intertidal among rubble and gravel.

• Original genus: *Littorina*.

G778 *L. pallescens* (PHILIPPI, 1846) (= *Littorina sieboldii* PHILIPPI, 1846; *Littorina arboricola* REEVE, 1857; *Littorina (Melaraphe) scabra* var. *filosa sensu* TRYON, 1887 (*pars*) non SOWERBY I, 1832; *Melaraphe (Littorinopsis) scabra sensu* ABE, 1942 (*pars*) non LINNAEUS, 1758; *Littorina (Littorinopsis) scabra scabra sensu* ROSEWATER, 1970 (*pars*) non LINNAEUS, 1758; *Littorinopsis intermedia sensu* ŌYAMA & TAKEMURA, 1961 non PHILIPPI, 1846)

Madara-uzura-tama-kibi

• Type locality: Cagayan, Mindanao, Philippines.

• Distribution: Amami islands and southwards, (Fukuchi river, Okinawa island REID, 1986), ECP3-ECP2, P2; central East Africa to Sri Lanka, Marshall islands, Samoa, Hong Kong, Australia (REID, 1986).

• Habitat: on mangroves above tidal range.

• Original genus: *Littorina*.

Subgenus *Palustorina* REID, 1986

Type species: *Littorina melanostoma* GRAY, 1839 (o. d.)

G779 *L. (P.) melanostoma* (GRAY, 1839) (= *Littorina melanostoma* var. *articulata* NEVILL, 1885)

Kuchiguro-uzura-tama-kibi

• Type locality: 'Indian Ocean'; restricted to 'Penang, Malaysia' (ROSEWATER, 1970).

• Distribution: Miyako island and southwards, Yaeyama

islands, P2; South China Sea, southern India, Bay of Bengal, Java.

• Habitat: on mangroves at river mouths.

• Original genus: *Littorina*.

G780 *L. (P.) articulata* (PHILIPPI, 1846)

(= *Littorina strigata* LISCHKE, 1871 non PHILIPPI, 1846; *Melaraphia blandfordi* DUNKER, 1871; *Littorina sinensis* PILSBRY, 1895; *L. adonis* YOKOYAMA, 1927; *L. strigata sensu* HABE & KOSUGE, 1967, OKUTANI, 1975; *L. adonis sensu* SAKURAI, 1986)

Maru-uzura-tama-kibi

• Type locality: Swan Point, Western Australia.

• Distribution: Kōchi prefecture (southern Shikoku) and southwards, P5, Japan Sea (J1), EC5, ECP4-ECP2, P2; Korea, Philippines, southeast Asia, Australia.

• Habitat: upper intertidal in bays; on rocks and mangroves.

• Original genus: *Littorina* (as var. of *L. intermedia*).

□ Genus *Peasiella* NEVILL, 1885

Type species: *Trochus tantillus* GOULD, 1849 (o. d.)

(Refs.: Reid, 1989; Reid & Mak, 1998)

G781 *P. habei* REID & MAK, 1998

(= '*Littorina-capsula habei* TOKIOKA, 1950 *nom. nud.*; *P. roepstorffiana* auct. non NEVILL, 1885)

Kobito-ura-uzu

• Type locality: cape Esu, Shirahama, Wakayama prefecture (Kii peninsula).

• Distribution: Mutsu bay and southwards, P9-P5, Japan Sea (Noto peninsula, J3-J1), EC5, ECP4-ECP2, P2; China, Korea.

• Habitat: intertidal in rock crevices among barnacles.

G782 *P. conoidalis* (PEASE, 1868)

(= *Risella tantilla* E. A. SMITH, 1876 (*pars*) non GOULD, 1849; *Echinella gaidei* MONTROUZIER in SOUVERBIE & MONTROUZIER, 1879)

Hinano-ura-uzu

• Type locality: 'Paumotus' (Tuamotu islands).

• Distribution: Ogasawara islands, Amami islands and southwards, ECP3-ECP2, P2; Philippines, southern & western Pacific, Queensland, Marshall islands, Tuamotu islands, New Caledonia.

• Habitat: intertidal among rocks, under coral rubble or thin layer of sand (REID, 1989).

• Original genus: *Trochus*.

**Note:** *P. roepstorffiana* (NEVILL, 1885) is recorded from Ishigaki island (REID & MAK, 1998); its distribution is from Australia to southwesternmost Japan via Indonesia, Hong Kong, Fiji and Taiwan.

□ Genus *Tectarius* VALENCIENNES, 1832

Type species: *Turbo pagodus* LINNAEUS, 1758 (o. d.)

(= *Cidaris RÖDING*, 1798 non LESKE, 1778; *Echinella*

SWAINSON, 1840 *non* BORY, 1824; *Pagodus* GRAY, 1839; *Pagodella* SWAINSON, 1840; *Echinellopsis* ROVERETO, 1899 *non* BORY, 1824; *Hamus* KLEIN in H. & A. ADAMS, 1858; *Tectarium* P. FISCHER, 1885)  
Subgenus *Tectarius s. str.*

**G783 *T. (T.) coronatus* VALENCIENNES in HUMBOLDT & BONPLAND, 1832**

(= *Mondonta papillosa auct. non* LAMARCK, 1822 in 1815-22; *Litorina papillosa elegans* PHILIPPI, 1846; *L. papillosa quadriseriata* PHILIPPI, 1846; *Tectarius (Echinellopsis) grandinatus sensu* KURODA, 1941; *Echinellopsis grandinatus sensu* HABE, 1964, HABE & KOSUGE, 1966)

Iga-tama-kibi

- Type locality: Luzon, Philippines.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, southwestern Pacific.
- Habitat: intertidal to high tide line, rocks.

**Subgenus *Echininus* CLENCH & ABBOTT, 1942**

Type species: *Trochus cumingii* PHILIPPI, 1846  
(= *Echinella* SWAINSON in H. & A. ADAMS, 1854 *non* SWAINSON, 1840; *Nina* GRAY, 1850 *non* HORSFIELD, 1829)

**G784 *T. (E.) cumingi spinulosus* (PHILIPPI, 1847 in 1842-51)**

(= *Echinella cumingi* PHILIPPI *sensu* PILSBRY, 1895; *E. cumingi luchuana* PILSBRY, 1901)

Konpeitō-gai

- Type locality: Manila, Philippines.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; western Pacific.
- Habitat: high tide line, rocks.

**Subfamily LACUNINAE GRAY, 1857**

□ Genus *Tamanella* ROVERETO, 1899

**G785 *T. turrata* (A. ADAMS, 1861-f)**

(= *Lacuna crassior sensu* IWAKAWA, 1919)

Cha-iro-tama-kibi

- Type locality: 'Rifunsiri' (Rishiri island, Hokkaidō), 'on the shore'.
- Distribution: Miyagi prefecture and northwards, Hokkaidō, Kuril islands; Korea (Kuryongp'o).
- Habitat: intertidal to 50 m., on eelgrass.
- Original genus: *Lacuna*.

□ Genus *Epheria* LEACH in GRAY, 1847

Type species: *Turbo vincta* MONTAGU, 1803 (o. d.; = *Turbo divaricata* FABRICIUS, 1780)

(= *Epheriella* PALLARY, 1914)

**G786 *E. decorata* (A. ADAMS, 1861-f)**

(= *Lacuna inflata* A. ADAMS, 1861-f)

Kōdaka-cha-iro-tama-kibi

- Type locality: 'Rifunsiri' (Rishiri island, Hokkaidō) 'on the shore'.
- Distribution: Fukushima prefecture, Iwate prefecture (Ōtsuchi bay TSUCHIDA, 1990), P8-P10, Japan Sea (Mishima and northwards, Sado island), Hokkaidō, Kuril islands.
- Habitat: intertidal to 50 m., on eelgrass.
- Original genus: *Lacuna*.

□ Genus *Stenotis* A. ADAMS, 1863-j

Type species: *Stenotis laxata* A. ADAMS, 1863 (o. d.)

**Note:** the position of the genus *Stenotis* is currently uncertain (HASEGAWA, 1995); it is thought more likely to belong in Vanikoridae, but is retained in its current position pending further research.

**G787 *S. laxata* A. ADAMS, 1863-j**

• Type locality: 'Idsuma-nada, 17 fms' (? Izumi-nada, southern Ōsaka bay or off Izumo, Shimane prefecture, Japan Sea) and off Yobuko, Saga prefecture, northern Kyūshū, 14 fms., mud.

- Distribution: off Yobuko, Shima peninsula (Mie prefecture), off Fukuoka (Kyūshū).
- Habitat: 30-50 m.

**G788 *S. cariniferus* (A. ADAMS, 1853-e)**

(= *Lacuna uncarinata* E. A. SMITH, 1876; *L. oxytropis* PILSBRY, 1895)

Moro-ha-tama-kibi (= Susukado-tama-kibi)

- Type locality: 'Borneo'.
- Distribution: Tōkyō bay and northwards, P7-P10, Japan Sea (Noto peninsula, off Sado island), Hokkaidō; southeast Asia.
- Habitat: intertidal to 110 m., on seaweed.
- Original genus: *Lacuna*.

**G789 *S. lepidula* (A. ADAMS, 1863-j)**

• Type locality: 'Seto-uchi; Akasi' (Akashi, Hyōgo prefecture, Seto inland sea); 15 fms.

- Distribution: recorded only from type locality.
- Original genus: *Epheria*.

**G790 *S. smithii* (PILSBRY, 1895-a)**

Heso-kado-tama-kibi

- Type locality: 'Tokyo Harbor'.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P7-P6, Japan Sea (Sado island, J2-J1), Seto inland sea; Korea.
- Habitat: intertidal on eelgrass.
- Original genus: *Lacuna*.

**G791 *S. setonaikaiensis* HABE, 1958-f**

Seto-uchi-heso-kado-tama-kibi (= Maru-heso-kado-tama-kibi)

- Type locality: Aio, Yamaguchi prefecture (Suo-nada,

western Seto inland sea).

- Distribution: central and western Seto inland sea, Kyūshū (Fukuoka prefecture).
- Habitat: intertidal on eelgrass.

G792 *S. latifasciata* (A. ADAMS, 1863-j)

- Type locality: 'Kino-O-Sima' (Kii-Ōshima, southern Kii peninsula, central Honshū).
- Distribution: Izu-shirahama (Izu peninsula, central Honshū), Toba (Mie prefecture), Kii-Ōshima.
- Original genus: *Lacuna*.

G793 *S. uchidai* HABE, 1953-d

Uchida-heso-kado-tama-kibi

- Type locality: Akkeshi bay, Hokkaidō.
- Distribution: Hokkaidō, Kuril islands.
- Habitat: intertidal on leaves of seaweed *Zostera marina*.

□ Genus *Haloconcha* DALL, 1886-a

Type species: *Lacunella reflexa* DALL, 1884  
(= *Lacunaria* DALL, 1884 non CONRAD, 1866;  
*Lacunella* DALL, 1884 non DESHAYES, 1861)

G794 *H. reflexa* (DALL, 1884-a)

Usu-kawa-tama-kibi (= Hiramaki-cha-iro-tama-kibi)

- Type locality: St. Paul island, Pribilof islands (Bering Sea).
- Distribution: Hokkaidō and northwards, Kuril islands; Bering Sea, Alaska.
- Habitat: intertidal on seaweed.
- Original genus: *Lacunella*.

Notes: name is apparently an error for *reflexa* but appeared earlier in article and was not subsequently amended.

G795 *H. minor* (DALL, 1919-c)

Tsugi-no-usu-kawa-tama-kibi

- Type locality: English bay, St. Paul island, Pribilof group, Bering Sea
- Distribution: Kuril islands and northwards, Bering Sea, Alaska.
- Habitat: intertidal to 20 m., on seaweed.
- Original genus: *Haloconcha*.

□ Genus *Lacunitunica* GOLIKOV & GULBIN, 1978

Type species: *Lacunitunica lukinii* GOLIKOV & GULBIN, 1978 (o. d.)

G796 *L. lukinii* GOLIKOV & GULBIN, 1978

- Type locality: off Shiashkotan island, Kuril islands; 5 m., rocks (R. V. 'Krylatka').
- Distribution: Kuril islands.

Family PICKWORTHIIDAE IREDALE, 1917

□ Genus *Sansonia* JOUSSEAUME, 1892

Type species: *Iphitus tuberculata* WATSON, 1886 (mt.)

Subgenus *Sansonia s. str.*

G797 *S. (S.) umblicata* JOUSSEAUME, 1892

(= *S. umblicata* auct.)

Shimabukuro-tsubo

- Type locality: Java (Indonesia).
- Distribution: Amami Ōshima (Kasari EKAWA, 1993-c), Okinawa islands; Indian Ocean (Christmas island IREDALE, 1917), Java.

G798 *S. (S.) iredalei* (BAVAY, 1922)

(= *Merelina kenneyi* sensu KAY, 1979)

Ebisu-tsubo

- Type locality: Tuamotu islands.
- Distribution: Kii peninsula (Susami-cho), Amami Ōshima (Kasari) (EKAWA, 1991-a); Hawaii, Tuamotos.
- Original genus: *Mecoliotia*.

G799 *S. (S.) kirkpatricki* (IREDALE, 1917)

Sobie-tsubo

- Type locality: off Christmas island, Indian Ocean; 100 fms, sand.
- Distribution: Amami Ōshima (Tsuchi-hama EKAWA, 1993-c); Indian Ocean.
- Habitat: 100-200 m., sand.
- Original genus: *Pickworthia*.

G800 *S. (S.) kenneyi* (LADD, 1966)

Koma-tsubo

- Type locality: Eniwetok Atoll, Marshall islands.
- Distribution: Okino-erabu island (Amami islands); Marshall islands.
- Original genus: *Alvania*.

G801 *S. (S.) iejimensis* KASE, 1998-a

Iejima-sobie-tsubo

- Type locality: Shō-dōkutsu submarine cave, Ie island, Okinawa: 26° 42.9' N., 127 50.1' E., 20 m.
- Distribution: known only from type locality.
- Habitat: in muddy sand (only dead shells known).

G802 *S. (S.) shigemitsu* KASE, 1998-a

Shigemitsu-sobie-tsubo

- Type locality: Shō-dōkutsu submarine cave, Ie island, Okinawa: 26° 42.9' N., 127 50.1' E., 20 m.
- Distribution: Okinawa; Palau, Guam, Saipan, Tinian, Cook islands, Raiatea.
- Habitat: 10-50 m., in submarine caves.

Subgenus *Reynellona* IREDALE, 1917

Type species: *Reynellona natalis* IREDALE, 1917 (o. d.)

G803 *S. (R.) natalis* (IREDALE, 1917)

Shimo-bukure-tsubo

- Type locality: northeast off Christmas island, Indian Ocean; 100 fms.
- Distribution: Okinawa (Yonagusuku-mura, in sand at river mouth SHIKANO, 1990); type locality.
- Original genus: *Reynellona*.

□ Genus *Microliotia* BÖTTGER, 1902

Type species: *Microliotia brandenburgi* BÖTTGER, 1902 (mt.)

(= *Latilabrum* KURODA & HABE, 1991)

(Refs.: KASE, 1998-b)

G804 *M. mirabile* (KURODA & HABE, 1991)

Kuchi-biro-gai

• Type locality: Shikano-ura, Tokunoshima island (Amami islands).

• Distribution: Amami-Ōshima (Tsuchi-hama), type locality.

• Original genus: *Latilabrum*.

G805 *M. ohashii* KASE, 1998-b

Ōhashi-kuchibiro-gai

• Type locality: Sabachi submarine cave, Yonaguni island, Okinawa: 24° 26.1' N., 122° 57.5' E., 25-30 m.

• Distribution: Okinawa islands (Yonaguni; Shimoji; Ie); Philippines, Palau, Tinian.

• Habitat: 12-51 m., in submarine caves.

G806 *M. koizumii* KASE, 1998-b

Koizumi-kuchibiro-gai

• Type locality: Balicasag island, Bohol, Philippines: 9° 23.7' N., 123° 40.7' E., 17-40 m., in submarine caves.

• Distribution: Ogasawara islands (Iōjima); Philippines (Balicasag; Mactan), Palau, Tinian.

• Habitat: 17-51 m., in submarine caves.

Family PELYCIDIIDAE PONDER & HALL, 1983

□ Genus *Pelycidion* FISCHER in FOLIN & PERRIER, 1873

Type species: *Pelycidion enustulum* FISCHER, 1873 (mt.)

(= *Nannoteretispira* HABE, 1961)

G807 *P. japonica* (HABE, 1961-d)

Hama-keshi-tsubo

• Type locality: Shikanoshima beach (Fukuoka prefecture, Kyūshū), in shell sand.

• Distribution: Suruga bay, Kōchi prefecture (Komuronohama beach), P5, Yamaguchi prefecture (FUKUDA *et al.*, 1992), EC5, ECP4-ECP2.

• Habitat: intertidal in shell sand.

• Original genus: *Nannoteretispira*.

G808 *P. xanthias* (WATSON, 1885 in 1885-86)

• Type locality: off Tongatabu between Fiji and New Caledonia (Tonga); and off Thursday island, Torres strait, Australia.

• Distribution: Amami islands (EKAWA, 1993-a); Tonga, Australia.

• Original genus: *Mucronalia*.

G809 *P. habei* (KAY, 1979)

Seno-keshi-tsubo

• Type locality: Kaneohe bay, Oahu, Hawaii.

• Distribution: Izu islands (Zenu Bank, 104-106 m., TSUCHIDA & IKEBE, 1993); Hawaii.

• Original genus: *Nannoteretispira*.

Superfamily CINGULOPSOIDEA FRETTER & PATIL, 1958

Family CINGULOPSIDAE FRETTER & PATIL, 1958

□ Genus *Eatonina* THIELE, 1912

Type species: *Eatoniella (Eatonina) pusilla* THIELE, 1912 (o. d.)

G810 *E. kitanagato* FUKUDA, NAKAMURA & YAMASHITA, 1998

Kita-nagato-hoshinomi-kibi

• Type locality: off Kiwado, Fukawa bay, Ōtsu district, northern Yamaguchi prefecture (western Japan Sea); 10 m., sand.

• Distribution: northern Yamaguchi prefecture (Kiyogahama beach, Abu district; type locality).

Family EATONIELLIDAE PONDER, 1965

□ Genus *Eatoniella* DALL, 1876

Type species: *Eatonia kerguelenensis* E. A. SMITH, 1875 (o. d.)

(= *Eatonia* E. A. SMITH, 1875 *non* HALL, 1857;

*Dardanula* IREDALE, 1915; *Dardania* HUTTON, 1882 *non* STÅL, 1860; *Cerostraca* OLIVER, 1915;

*Abscindostoma* PONDER, 1965; *Albitoniella* PONDER, 1965; *Dardaniopsis* PONDER, 1965)

G811 *E. japonica* THIELE, 1925

• Type locality: Kobe, central Honshū (eastern Seto inland sea).

• Distribution: 'Pacific coast to 34° N.' (KURODA & HABE, 1952-a)

Superfamily RISSOOIDEA GRAY, 1847

Family IRAVADIIDAE THIELE, 1928

(= FAIRBANKIIDAE GRAY, 1847)

□ Genus *Iravadia* BLANFORD, 1867

Type species: *Iravadia ornata* BLANFORD, 1867 (mt.)

(Refs.: Ponder, 1984; Fukuda, 1996)

Subgenus *Iravadia s. str.*

G812 *I. (I.) quadrasi* (BÖTTGER, 1893 in 1893-94)

Mangaru-tsubo

• Type locality: Malabon, near Manila, Philippines.

• Distribution: Ryūkyū islands (FUKUDA, 1996); Philippines, Thailand, northern Australia, 'central Indo-Pacific' (PONDER, 1984).

• Habitat: brackish water in mangrove swamps, under stones on mud.

• Original genus: *Alvania*.

Subgenus *Fairbankia* BLANFORD in STOLICZKA,



**1868**

Type species: *Fairbankia bombayana* BLANFORD, 1868 (o. d.)

(= *Pellamora* IREDALE, 1943; *Wakauraia* KURODA & HABE, 1954-b)

**G813 I. (F.) sakaguchii (KURODA & HABE, 1954-b)**

Waka-ura-tsubo

- Type locality: Wakagawa river, Wakaura, Wakayama prefecture, central Honshū.
- Distribution: Aichi prefecture (Mikawa bay), Mie prefecture (Ise bay), Seto inland sea, northern Kyūshū (Hakata), western Kyūshū (Ariake inland sea) (FUKUDA, MAEDA & KAWABE, 1990; FUKUDA, 1996).
- Habitat: brackish water, under stones at river mouths.
- Original genus: *Fairbankia* (*Wakauraia*).

**G814 I. (F.) reflecta (LASERON, 1956-a)**

Nise-goma-tsubo

- Type locality: Darwin, northern Australia.
- Distribution: Amami Ōshima (EKAWA, 1993-a), Okinawa and Ishigaki islands (FUKUDA, 1996); Australia.
- Habitat: innermost part of bays; under rocks on mud.
- Original genus: *Pellamora*.

**G815 I. (F.) minatura (LASERON, 1956-a)**

Mijin-goma-tsubo

- Type locality: Port Moresby, New Guinea.
- Distribution: Amami Ōshima (EKAWA, 1993-a); Papua New Guinea.
- Original genus: *Pellamora*.

**Subgenus *Pseudonoba* BÖTTGER, 1902**

Type species: *Pseudonoba peculiaris* BÖTTGER, 1902 (o. d.)

(= *Paranoba* LASERON, 1950; *Sinusicola* KURODA & HABE 1950; *Lucidinella* LASERON, 1956; *Dipsotoma* LASERON, 1956; *Iraquirissoa* DANCE & EAMES, 1966)

**G816 I. (P.) conicera (LASERON, 1956-a)**

Hime-goma-tsubo

- Type locality: Whitehaven Bay, Queensland, Australia.
- Distribution: Amami Ōshima (EKAWA, 1993-a); Australia.
- Original genus: *Lucidinella*.

**G817 I. (P.) yendoii (YOKOYAMA, 1927-a)**

(= *Turbonilla* (*Careliopsis*) *filiola* YOKOYAMA, 1927-b) Irie-tsubo (= Kodomo-mizu-tsubo; Endō-mizu-tsubo)

- Type locality: Shiba-kuruma-cho, Tōkyō (fossil).
- Distribution: Tōkyō bay and southwards, P6-P5, Japan Sea (Noto peninsula, J2-J1), EC5, western Seto inland sea (TSUCHIDA, HORI & MITOKI, 1991), 'Honshū to Kyūshū' (HABE, 1973-d).
- Habitat: brackish water on mud at river mouths.
- Original genus: *Rissoina*.

**G818 I. (P.) densilabrum (MELVILL, 1912)**

(= *Lucidinella conicera conicera* LASERON, 1956; *L. conicera patruelis* LASERON, 1956)

Uchinomi-tsubo

- Type locality: 'Karachi; generally along the Mekran coast' (Pakistan to western India).
- Distribution: Seto Inland Sea (Okayama and Yamaguchi prefectures), western Kyūshū (Amakusa) (FUKUDA, 1996); tropical Indo-Pacific, northern Australia (PONDER, 1984).
- Habitat: innermost part of large bays; on mud flats.
- Original genus: *Rissoa* (*Amphithalamus*).

**G819 I. (P.) bella (A. ADAMS, 1853-i)**

(= *Rissoa vitrea* GARRETT, 1873; *R. (Onoba) mecurialis* WATSON, 1886; *Onoba philippinica* BÖTTGER, 1893; *Rissoina oscitans* PRESTON, 1905; *Amphithalamus psomus* MELVILL, 1918)

Goma-tsubo-modoki (= Shiri-ore-mijin-nina)

- Type locality: 'Philippine Islands'.
- Distribution: Mie prefecture (Ago bay HABE, 1961-f; Matoya bay FUKUDA, 1996), Wakayama prefecture (Yura), western Kyūshū (Amakusa) (HABE, 1961-f), Yamaguchi prefecture (FUKUDA, 1996); Philippines, tropical Indo-Pacific, Australia.
- Habitat: inner bays, on mud or sand.
- Original genus: *Rissoa*.

**Subgenus *Fluviocingula* KURODA & HABE, 1954-b**

Type species: *Fluviocingula nipponica* KURODA & HABE, 1954 (o. d.; = *Onoba elegantula* A. ADAMS, 1861)

(= *Mesodestea* LASERON, 1956)

**G820 I. (F.) elegantula (A. ADAMS, 1861-d)**

(= *F. nipponica* KURODA & HABE, 1954; *F. elegans sensu* SAKURAI, 1986)

Kawaguchi-tsubo

- Type locality: 'Gulf of Pe-chili (Bo-hai or Gulf of Chihli, China), 7 fathoms (mud)'.
- Distribution: northeastern Honshū (Obuchi-numa marsh; Takahoko-numa marsh; Miyako bay), Seto inland sea, Mie prefecture (Tsu city), Kyūshū, southern Japan Sea; China.
- Habitat: brackish water, on mud at river mouths.
- Original genus: *Onoba*.

□ Genus *Rissopsis* GARRETT, 1873

Type species: *Rissopsis typica* GARRETT, 1873 (o. d.)

**G821 R. typica GARRETT, 1873**

Shiributo-chōji-gai

- Type locality: Viti (Fiji) & Samoa islands.
- Distribution: Amami islands and southwards, Okinawa (Kerama islands HABE, 1993), ECP3-ECP2; southwestern Pacific.

• Habitat: intertidal, sand.

□ Genus *Nozeba* IREDALE, 1915

Type species: *Rissoa emarginata* HUTTON, 1885 (o. d.)

G822 *N. lignicola* HASEGAWA, 1997-a

Kitsuki-tsubo

- Type locality: Suruga bay, central Honshū: 3.5 km off (Cape) Osezaki, 140-400 m.
- Distribution: Suruga bay.
- Habitat: 140-400 m., on wood.

Family ELACHISINIDAE PONDER, 1985

□ Genus *Elachisina* DALL, 1918

Type species: *Elachisina grippi* DALL, 1918 (mt.)  
(= *Microdochus* REHDER, 1943)

G823 *E. ziczac* FUKUDA & EKAWA, 1997

Sazanami-tsubo

- Type locality: Nagusa-no-hama (beach), Wakayama City, central Honshū (Kii peninsula); in beach drift.
- Distribution: central Honshū (western Sagami bay) to western Kii peninsula, Japan Sea (Oga peninsula), Seto Inland Sea (Okayama prefecture to Yamaguchi prefecture), northern Kyūshū (Fukuoka prefecture).
- Habitat: innermost part of large bays; sandy mud flats.

□ Genus *Laeviphitus* Van AARTSEN, BOGI & GIUSTI, 1989

Type species: *Laeviphitus verduini* Van AARTSEN, BOGI & GIUSTI, 1989 (o. d.)

G824 *L. japonicus* OKUTANI, FUJIKURA & SASAKI, 1993

- Type locality: Kaikata seamount, near Ogasawara islands; 440 m., on hydrothermal vents.
- Distribution: recorded only from type locality.

Family FALSICINGULIDAE SLAVOSHEVSKAYA, 1976

□ Genus *Falsicingula* HABE, 1958-j

Type species: *Cingula kurilensis* PILSBRY, 1905 (o. d.)

G825 *F. kurilensis* (PILSBRY, 1905)

Natane-tsubo

- Type locality: 'Kunashiri, Chishima' (Kunashiri, southernmost Kuril islands).
- Distribution: 'Japan and the Kuril islands' (ROSENBERG, 1992)
- Habitat: shallow marine waters and estuaries.

G826 *F. aleutica* (DALL, 1887)

- Type locality: Unalashka, Aleutian islands.
- Distribution: Kuril islands (GOLIKOV & GULBIN, 1977), Aleutian islands.
- Original genus: *Onoba*.

Family POMATIOPSIDAE STIMPSON, 1865-c

(Refs. Davis, 1979)

Subfamily POMATIOPSINAE STIMPSON, 1865-c

Genus *Cecina* A. ADAMS, 1861-f

Type species: *Cecina manchurica* A. ADAMS, 1861-f (mt.)

G827 *C. manchurica* A. ADAMS, 1861-f

(= *Truncatella tatarica* SCHRENCK, 1862 in 1862-63)

Kubikire-gai-modoki

- Type locality: Olga (town) and Vladimir bay (Primoriye region, Russian coast of Japan Sea).
- Distribution: Kuril islands, OP, Hokkaidō, P10, northeastern Honshū (Aomori and Iwate prefectures), P9, Japan sea (Noto peninsula and northwards, J6-J3); Primoriye region (YAMAMOTO & HABE, 1962; ANDŌ & HABE, 1981).
- Habitat: Upper intertidal zone; under rocks.

Family ASSIMINEIDAE H. & A. ADAMS, 1856 in 1853-58

(= ASSIMINIIDAE H. & A. ADAMS, 1856 in 1853-58; ASSEMANIIDAE *auct. err.*; ACROPTHALMA FISCHER, 1884 in 1880-87; SYNCERATIDAE BARTSCH, 1920; SYNCERIDAE *auct. err.*; PALUDINELLIDAE HABE, 1976-f)

(Refs.: Habe, 1942, 1943, 1973, 1990; Abbott, 1958; Kuroda, 1963-b; Pace, 1973; Fukuda, 1994-c, 1996; Fukuda & Mitoki, 1995, 1996-a, b, 1997)

Subfamily ASSIMINEINAE H. & A. ADAMS, 1856 in 1853-58

(= EKADANTIDAE THIELE, 1929)

□ Genus *Angustassiminea* HABE, 1943

Type species: *Assiminea castanea* WESTERLUND, 1883 (o. d.)

G828 *An. castanea* (WESTERLUND, 1883)

(= *Assiminea kushimotonis* KURODA, 1958-c)

Kuri-iro-kawa-zanshō (= Kuro-kuri-iro-kawa-zanshō)

- Type locality: 'Yokohama' (Kanagawa prefecture, central Honshū).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Seto inland sea, Japan sea (Akita prefecture and southwards, J3-J1), Ariake inland sea, western Kyūshū, EC5 (FUKUDA & MITOKI, 1996-b).
- Habitat: among rocks and wet mud around plant roots in salt marshes of estuaries in inner bays.
- Original genus: *Assiminea*.

G829 *An. kyushuensis* S. & T. HABE, 1983

Ō-kuri-iro-kawa-zanshō

- Type locality: 'Among reeds of the Nishikawa, a branch of the Onga river, about 4 km far from the mouth of this river, in Fukuoka prefecture, the northern Kyūshū'.
- Distribution: Nishikawa river (flowing into Japan sea, J1);

Kyūshū (estuaries on Ariake inland sea side of Fukuoka and Saga prefectures FUKUDA, 1996).

• Habitat: On wet mud between reed roots in salt marsh of estuaries.

**G830 *An. satumana* (HABE, 1942-b)**

Satsuma-kuri-iro-kawa-zanshō (= Satsuma-kawa-zanshō; Oka-zanshō; Kita-kuri-iro-kawa-zanshō)

- Type locality: 'Nase, Amami-oshima island',
- Distribution: southern Hokkaidō (Hakodate HABE, 1990; IGARASHI *et al.*, 1990) and southwards, P9-P5, Seto inland sea, Japan sea (J4-J1), western Kyūshū, EC5, ECP4-ECP2, P2 (HABE, 1973-d; FUKUDA, 1994-c; FUKUDA & MITOKI, 1996-b)
- Habitat: Under debris and stones in upper intertidal zone of rocky shores facing open sea.
- Original genus: *Assiminea*.

**G831 *An. yoshidayukioi* (KURODA, 1959-b)**

Yoshida-kawa-zanshō

- Type locality: 'Kakogawa, a river in Takasago City (Hyogo prefecture, central Honshu), inland sea of Japan, on the clayish beds among the rushes on the bank of river'.
- Distribution: Tōkyō bay (FUKUDA, 1994-c) and southwards, P6-P5, Japan sea (northern Yamaguchi prefecture YOSHIDA & KAWASHIMA, 1961; KAWAMOTO, 1963), Seto inland sea (INABA, 1982; HOSAKA & FUKUDA, 1996), western Kyūshū, EC5 (FUKUDA, 1996).
- Habitat: Under debris, decayed wood and dead leaves in supralittoral zone of estuaries.
- Original genus: *Assiminea*.

□ Genus *Assiminea* FLEMING, 1828

Type species: *Assiminea grayana* FLEMING, 1828 (mt.)

**G832 *As. estuarina* HABE, 1946-c**

Tsubu-kawa-zanshō

- Type locality: Urakami, Shimosato district, Wakayama prefecture (central Honshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan sea (northern Yamaguchi prefecture, J1), Ariake inland sea, western Kyūshū, EC5 (HABE, 1973-d).
- Habitat: Between rocks on mud in intertidal zone of inner bays.

**G833 *As. hiradoensis* HABE, 1942-b**

(= *As. iyoensis* IWAKAWA, 1919 *nom. nud.*; *As. bella* KURODA, 1958-c)

Hirado-kawa-zanshō (= Iyo-kawa-zanshō; Date-kawa-zanshō)

- Type locality: 'Hirado, Nagasaki prefecture' (western Kyūshū).
- Distribution: Seto inland sea off Yamaguchi prefecture (FUKUDA *et al.*, 1998), western Kyūshū (EC5)

Yakushima island (ECP4); south Korea (HABE, 1942-b).

• Habitat: On wet mud among reed roots in salt marshes of estuaries.

**G834. *As. japonica* MARTENS, 1877**

(= *As. savatieri sensu* PILSBRY, 1895-a; *As. atomaria sensu* PILSBRY, 1895-a; *Littorina lucida* YOKOYAMA, 1927-b)

Kawa-zanshō

- Type locality: 'Yokohama' (Kanagawa prefecture, central Honshū).
- Distribution: northern Honshū (Aomori prefecture) and southwards, P9-P5, Seto inland sea, Japan sea (J2-J1), Ariake inland sea, western Kyūshū, EC5 (HABE, 1942-b, 1973).
- Habitat: On wet mud among reed roots in salt marshes of estuaries.

**G835 *As. parasitologica* KURODA, 1958-c**

Mushi-yadori-kawa-zanshō

- Type locality: 'Maruyama-gawa river, Kinosaki, Hyogo prefecture' (Japan sea side of central Honshū).
- Distribution: northeastern Honshū (Miyagi prefecture) and southwards, P9-P5, Seto inland sea, Japan sea (northern Hyōgo prefecture and westwards, J2-J1), Ariake inland sea, western Kyūshū, EC5 (YOSHIDA & KAWASHIMA, 1961; FUKUDA & MITOKI, 1997).
- Habitat: On wet mud among reed roots in salt marshes of estuaries.

**G836 *As. septentrionalis* HABE, 1942-b**

(= *As. savatieri sensu* IWAKAWA, 1919)

Teshio-kawa-zanshō

- Type locality: 'Fukui prefecture (details unknown)' (Japan sea side of central Honshū).
- Distribution: Hokkaidō (Kuccharo-ko and Abashiri-ko coastal lagoons FUKUDA, 1996, P10), northeastern Japan sea (J5-J3) (HABE, 1942-b), .
- Habitat: On wet mud among reed roots in salt marshes of estuaries.

□ Genus *Pseudomphala* HEUDE, 1882

Type species: *Assiminea latericea* H. & A. ADAMS, 1864 (o. d.)

**G837 *Ps. latericea miyazakii* (HABE, 1943)**

Azuki-kawa-zanshō

- Type locality: 'Estuary of the Chikugo river, Fukuoka prefecture, northern Kyūshū'.
- Distribution: western Kyūshū (Ariake inland sea FUKUDA & MITOKI, 1996-b).
- Habitat: On wet mud among reed roots in salt marshes of estuaries.
- Original genus: *Assiminea* (*Pseudomphala*).

Subfamily **OMPHALOTROPIDINAE** THIELE, 1927

(= REALIIDAE GRAY, 1852 in 1853-57 (invalid, ICZN op. 973); GARRETTIINAE KOBELT, 1906; THAANUMELLINAE CLENCH, 1946; TUTUILANIDAE HUBENDICK, 1952)

□ Genus *Paludinellassininea* **HABE, 1994**

Type species: *Omphalotropis japonicus* PILSBRY, 1901-b (mt.)

(= *Paludinella sensu* THIELE, 1927 (*pars*); HABE, 1942-b, MINATO, 1977 *non* PFEIFFER, 1841)

• G838 *Pa. japonica* (**PILSBRY, 1901-b**)

(= *Omphalotropis japonica var. takanoshimae* PILSBRY, 1924)

Heso-kado-gai

- Type locality: 'Kashiwashima, Tosa (Kochi prefecture), Shikoku island'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan sea (Oga peninsula and southwards, J3-J1), western Kyūshū, EC5; southern Korea (HABE, 1942-b; MINATO, 1977; FUKUDA & MITOKI, 1995).
- Habitat: among debris, stones and roots of plants in supratidal zone of rocky shores facing open sea.
- Original genus: *Omphalotropis*.

839 *Pa. stricta* (**GOULD, 1859-b**)

(= *Omphalotropis japonica var. polita* PILSBRY, 1924; *Paludinella daitoensis* HABE, 1942-b)

Usu-iro-heso-kado-gai (= Daitō-heso-kado-gai)

- Type locality: 'On old stone walls, Loo choo' (Ryukyu islands).
- Distribution: Tanegashima island (PILSBRY, 1924), ECP4-ECP2, P2 (FUKUDA & MITOKI, 1995).
- Habitat: among debris, stones and roots of plants in supratidal zone to woods or bushes along seashore facing open sea.
- Original genus: *Omphalotropis*.

G840 *Pa. tanegashimae* (**PILSBRY, 1924**)

(= '*Omphalotropis strictus* (large var.)' *sensu* HIRASE, 1908; *Paludinella japonica var. yokohamaensis* THIELE, 1927)

Ō-usu-iro-heso-kado-gai

- Type locality: 'Tanegashima, Osumi' (off Kagoshima prefecture, southern Kyūshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan sea (Awashima island and southwards J3-J1), western Kyūshū, Tanegashima island, ECP4 (HABE, 1942-b; FUKUDA & MITOKI, 1995).
- Habitat: among debris, stones and roots of plants in upper intertidal zone of rocky shore facing open sea.
- Original genus: *Omphalotropis* (as ssp. of *O. strictus* GOULD, 1859-b).

Family **TRUNCATELLIDAE GRAY, 1840**

(Refs.: Habe, 1942-a; Clench & Turner, 1948; Andō & Habe, 1981)

Genus *Truncatella* **RISSO, 1826**

Type species: *Truncatella costulata* RISSO, 1826 (s. d. LOWE, 1855; = *Helix subcylindrica* LINNAEUS, 1767) (= *Fidelis* RISSO, 1826; *Truncatula* LEACH, 1847)

G841 *T. guerinii* **A. & J. B. VILLA, 1841**

(= *T. valida* PFEIFFER, 1846-a; *T. (Tahetia) ogariensis* KURODA, 1960; *T. amamiensis* KURODA & HABE in HABE, 1961-a)

Kubikire-gai (= Oka-kubikire-gai; Amami-kubikire-gai)

- Type locality: Bourbon (Réunion Island, Indian Ocean).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2, Ogasawara islands; Taiwan, Philippines, Thailand, Arafura sea (ANDŌ & HABE, 1981), north Australia, tropical Indo-Pacific.
- Habitat: Supratidal zone, among roots of plants and rocks.

G842 *T. pfeifferi* **MARTENS, 1860-b**

(= *T. kiusiuensis* PILSBRY, 1902; *T. japonica* PILSBRY & HIRASE, 1905)

Yamato-kubikire-gai (= Kyūshū-kubikire-gai)

- Type locality: Japan.
- Distribution: northern Honshū (Mutsu bay) and southwards, P9-P5, Hachijō island, P11, Japan sea (J4-J1), EC5, Tanegashima island, ECP4; southern Korea (ANDŌ & HABE, 1981).
- Habitat: Upper intertidal zone; under rocks.

Family **RISSOIDAE GRAY, 1847**

(Refs.: Laseron, 1956-a; Ponder, 1985)

Subfamily **RISSOINAE GRAY, 1847**

□ Genus *Rissoa* **FREMINVILLE in DESMAREST, 1813**

Type species: *Rissoa ventricosa* FREMINVILLE in DESMAREST, 1813 (o. d.)

(= *Loxostoma* BIVONA & BERNARDI, 1838;

*Goniostoma* VILLA, 1841 *non* SWAINSON, 1840;

*Zippora* LEACH in GRAY, 1847 *nom. nud.*; *Turboella*

LEACH in GRAY, 1847; *Anatasia* GISTL, 1848 *nom.*

*nud.*; *Apanthausa* GISTL, 1848 *nom. nud.*; *Persephona*

LEACH, 1852; *Lamarckia* LEACH, 1852; *Rissostomia* G.

O. SARS, 1878; *Apicularia* MONTEROSATO, 1884;

*Sabanea* LEACH in MONTEROSATO, 1884 *non* LEACH

in GRAY, 1847; *Schwartzia* BUCQUOY *et al.*, 1884;

*Elatiella*, *Gueriniana*, *Lilacinia*, *Liavenustia*,

*Nitituronella*, *Sfaxiella*, all NORDSIECK, 1972)

G850 *R. pupiformis* **A. ADAMS, 1860-c**

• Type locality: 'off Mino-Sima (Mishima, Japan Sea), from 63 fathoms'.

• Distribution: recorded only from type locality.

**Notes:** originally in subgenus *Goniostoma*.

□ Genus *Cingula* FLEMING, 1818

Type species: *Turbo cingillus* MONTAGU, 1803  
(= *Sabanea* LEACH in GRAY, 1847; *Cingilla* MONTEROSATO, 1884)

G851 *C. matsusimana* (NOMURA, 1940)

Matsushima-tsubo

- Type locality: Matsushima, Miyagi prefecture, northeastern Honshū.
- Distribution: Miyagi prefecture and northwards, Hokkaidō.
- Habitat: intertidal in sand.

G852 *C. dharma* (YOKOYAMA, 1926)

Daruma-tsubo

- Type locality: Sado island, Japan Sea (fossil).
- Distribution: northeastern Honshū (Sanriku coast NOMURA & HATAI, 1935-a), 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Rissoa*.

G853 *C. mundula* (A. ADAMS, 1861-d)

- Type locality: 'Korea Strait; 63 fathoms'.
- Distribution: recorded only from type locality.
- Original genus: *Onoba*.

G854 *C. pumila* (A. ADAMS, 1870-a)

- Type locality: 'Gulf of Suez and Japan'.
- Distribution: Pacific coast of Japan (KURODA & HABE, 1952-a); Gulf of Suez.
- Original genus: *Hyalia*.

G855 *C. spirata* (A. ADAMS, 1863-i)

- Type locality: 'Mososeki' (Moji, Fukuoka prefecture, northern Kyūshū), 7 fms.
- Distribution: 'Pacific coast at 33° N.' (KURODA & HABE, 1952-a).
- Original genus: *Onoba*.

G856 *C. mundana* (YOKOYAMA, 1926)

- Type locality: Sado island, Japan Sea (fossil).
- Distribution: northeastern Honshū (northern Sanriku coast, NOMURA & HATAI, 1935).
- Original genus: *Rissoa*.

□ Genus *Alvania* RISSO, 1826

Type species: *Alvania scardea* RISSO, 1826 (o. d.; = *Rissoa montagui* PAYRADEAU, 1826)  
(= *Acinus*, *Actonia*, *Acinopsis*, all MONTEROSATO, 1884; *Thapsis* MONTEROSATO, 1884 non ALBERS, 1860; *Alcidia* MONTEROSATO, 1890 non WESTWOOD, 1879; *Turbona* LEACH in GRAY, 1847; *Zacanthusa* LEACH, 1854; *Massotia* BUCQUOY *et al.*, 1884; *Arsenia* MONTEROSATO, 1891; *Thapsiella* FISCHER, 1885; *Alvaniella* MONTEROSATO in SACCO, 1895; *Acinulus* SEGUENZA, 1903; *Alcidiella* MONTEROSATO in

COSSMANN, 1921; *Conalvinia* PONDER, 1967; *Andrewiella*, *Alvanolira*, *Coronalvania*, *Lanciella*, all NORDSIECK, 1972; *Profundialvania* TAVIANI, 1975; *Deliciosalvania* PIANI, 1980 *nom. nud.*)

G857 *A. concinna* A. ADAMS, 1861-d

Tama-tsubo

- Type locality: Tsushima, western Japan Sea; 26 fms.
- Distribution: Kuril islands and southwards, Hokkaidō, P10-P5, Japan Sea (J5-J1), EC5; Korea.
- Habitat: intertidal in sheltered bays on seaweed.

G858 *A. plicosa* E. A. SMITH, 1875-b

(= *Rissoa (Apicularia) sadoensis* YOKOYAMA, 1926)  
Sado-tsubo

- Type locality: 'Avomori (Aomori) Bay, north of Nippon, in 7 fathoms' (northeastern Honshū).
- Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay TSUCHIDA, 1990) and southwards, P9-P5, Japan Sea (Yamagata prefecture, J3-J1), EC5.
- Habitat: intertidal to 110 m., in sheltered bays on seaweed.
- Original genus: *Hydrobia*.

G859 *A. asura* (YOKOYAMA, 1926)

(= *A. wakasana* NOMURA & NIINO, 1940)

Ashura-tsubo

- Type locality: Sado island, Japan Sea (fossil).
- Distribution: northeastern Honshū and northwards, Japan Sea (Noto peninsula), Hokkaidō.
- Habitat: intertidal to 260 m., on seaweed.
- Original genus: '*Rissoa (Apicularia?)*'.

G860 *A. caelata* A. ADAMS, 1861-d

- Type locality: Tsushima, western Japan Sea; 16-25 fms.
- Distribution: recorded only from type locality.

G861 *A. circinata* A. ADAMS, 1861-d

Makiune-tsubo

- Type locality: Sado island, Japan Sea; 30 fms.
- Distribution: Fukushima prefecture (Iwaki City), Kanagawa prefecture (Miura city), Shizuoka prefecture (Heda), Kii peninsula, Ishikawa prefecture (Togi and Ishikawa City) (EKAWA, 1993-d).

G862 *A. clathratula* A. ADAMS, 1861-d

- Type locality: Tsushima, western Japan Sea; 16-25 fms.
- Distribution: recorded only from type locality.

G863 *A. etizenica* NOMURA & NIINO, 1940

- Type locality: off Fukui prefecture, Japan Sea.
- Distribution: recorded only from type locality.

G864 *A. ferruginea* A. ADAMS, 1861-d

- Type locality: 'Hakodadi Bay (Hakodate, Hokkaidō); 7 fathoms'.
- Distribution: recorded only from type locality.

G865 *A. mariella* A. ADAMS, 1861-d

- Type locality: Tsushima, western Japan Sea, 26 fms., and Korea strait, 46 fms.
- Distribution: recorded only from type localities.

G866 *A. maya* (YOKOYAMA, 1926)

Maya-tsubo

- Type locality: Sado island, Japan Sea (fossil).
- Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay TSUCHIDA, 1990), Hokkaidō, Japan Sea (Wakasa bay and northwards, Sado island).
- Habitat: 50-150 m., sand & rocks.
- Original genus: *Rissoa* (*Alvania*).

G867 *A. pura* GOULD, 1861 in 1859-61

- Type locality: 'Simoda' (Shimoda, Izu peninsula, central Honshū, Pacific Ocean).
- Distribution: recorded only from type locality.

G868 *A. semicostata* A. ADAMS, 1861-d

- Type locality: 'Mino-Sima (Mishima, Japan Sea); 63 fathoms'.
- Distribution: recorded only from type locality.

G869 *A. tiarula* A. ADAMS, 1861-d

- Type locality: 'Tabu-Sima (Tobishima, Yamagata prefecture, Japan Sea); 25 fathoms'.
- Distribution: recorded only from type locality.

G870 *A. sitta* (YOKOYAMA, 1926)

- Type locality: Sado island, Japan Sea (fossil).
- Distribution: Japan Sea (off Noto, Noto peninsula; 200-204 m.)

G871 *A. ogasawarana* (PILSBRY, 1904-b)

(= *Rissoa ogasawarensis* PILSBRY *sensu* EKAWA, 1993-a)

Ogasawara-riso-tsubo

- Type locality: Hahajima, Ogasawara islands.
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, Japan Sea (Yamagata prefecture, J3-J1), EC5, Amami Ōshima (Kasari-cho EKAWA, 1993-a).
- Habitat: intertidal to 130 m., on seaweed.
- Original genus: *Rissoa*.

□ Genus *Merelina* IREDALE, 1915

Type species: *Rissoa cheilostoma* WOODS, 1877 (o. d.) (= *Promerelina* POWELL, 1926; *Merelinopsis* PONDER, 1967)

G872 *M. tokyoensis* (PILSBRY, 1904-b)

Tōkyō-riso-tsubo

- Type locality: Tōkyō harbour.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Yamagata prefecture, J3-J1), EC5.
- Habitat: intertidal, sand.

- Original genus: *Rissoa*.

G873 *M. tokunagai* (YOKOYAMA, 1927)

(= *Rissoa* (*Fenella*) *cf. cerithina* PHILIPPI *sensu* TOKUNAGA, 1906)

Tokunaga-tsubo

- Type locality: Tabata-cho, Tōkyō (fossil).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5.
- Habitat: intertidal, sand.
- Original genus: *Fenella*.

G874 *M. wanawana* KAY, 1979

Toge-tsubu-chōji-gai

- Type locality: Barbers Point, Oahu island, Hawaii; from sediments at 8 m.
- Distribution: Ogasawara islands (Chichijima, Hahajima FUKUDA, 1993), Kanagawa prefecture (Ōura, Miura peninsula), Kii peninsula (Susami-cho; Kushimoto), Amami Ōshima (EKAWA, 1991-a); Hawaii.

G875 *M. granulosa* (PEASE, 1862-d)

Mashironari-riso-tsubo

- Type locality: 'Sandwich Islands' (Hawaii).
- Distribution: Ogasawara islands (Chichijima, FUKUDA, 1993); Hawaii.
- Original genus: *Rissoina*.

G876 *M. pisinna* MELVILL & STANDEN, 1896

- Type locality: Loyalty islands (New Caledonia).
- Distribution: Amami Ōshima (EKAWA, 1993-a); New Caledonia.
- Original genus: *Alvania*.

G877 *M. sculptilis* (GARRETT, 1873)

(= *Rissoina sincera* MELVILL & STANDEN, 1896)

Ibo-chōji-gai

- Distribution: western Japan Sea (off Yamaguchi prefecture TSUCHIDA & HORI, 1996), Amami islands, Okinawa islands; Hawaii, Fiji, New Caledonia.
- Habitat: intertidal, coarse sand and stones.
- Original genus: *Rissoina*.

□ Genus *Parashiela* LASERON, 1956-a

Type species: *Parashiela ambulata* LASERON, 1956 (o. d.)

G878 *P. ambulata* LASERON, 1956-a

(= *P. beetsi* LADD, 1966)

Mijin-itokake-chōji-gai

- Type locality: Michaelmas Cay, Queensland, Australia.
- Distribution: Ogasawara islands (Chichijima FUKUDA, 1993), Suruga bay (Heda), Kii peninsula (Susami-cho), southwestern Shikoku (Kashiwajima), western Kyūshū (Mogi, Amakusa) (EKAWA, 1991-a), ECP3-ECP2; Australia.

- Habitat: intertidal, sand.

G879 *P. invisibilis* (HEDLEY, 1899-a)

Koshime-mijin-tsubo

- Type locality: Funafuti atoll, (Tuvalu, Polynesia); in sand on lagoon shore.
- Distribution: Amami Ōshima (EKAWA, 1993-a); Polynesia.
- Original genus: *Rissoa*.

□ Genus *Boreocingula* GOLIKOV & KUSAKIN, 1974

Type species: *Cingula robusta* var. *martyni* DALL, 1887 (o. d.)

G890 *B. martyni* (DALL, 1887)

Maruchin-natane-tsubo

- Type locality: 'Aleutians; Plover bay, eastern Siberia'. (Bering strait, Chukchi (Chukotsk) peninsula, eastern Siberia).
- Distribution: Hokkaidō and northwards, Kuril islands; Alaska.
- Habitat: intertidal, sand.
- Original genus: *Cingula* (as var. of *C. robusta*).

□ Genus *Onoba* H. & A. ADAMS, 1852

Type species: *Turbo striatus* J. ADAMS, 1800 (o. d.)

G891 *O. mirifica* A. ADAMS, 1863-i

- Type locality: 'Kino-O-Sima; Tanabe' (Kii-Ōshima, southern Kii peninsula, central Honshū).
- Distribution: 'Pacific coast at 33° N.' (KURODA & HABE, 1952-a).

G892 *O. elegans* (A. ADAMS, 1863-i)

- Type locality: 'Philippines'.
- Distribution: 'Pacific side, 0-34° N.' (KURODA & HABE, 1952-a).
- Original genus: *Rissoa*.

G893 *O. aurivillii aurivillii* (DALL, 1887)

- Type locality: Adakh island; Constantine harbour, Amchitka island, Aleutian islands.
- Distribution: Kuril islands (GOLIKOV & GULBIN, 1978).
- Original genus: *Alvania*.

G894 *O. aurivillii axicostata* GOLIKOV & GULBIN, 1978

- Type locality: none designated.
- Distribution: 'Small Kuril Ridge ('Northern Territories'), Kunashir island and Okhotsk Sea coast of Iturup island. 4-27 m., rocks and boulders, occasionally on sand and pebbles' (GOLIKOV & GULBIN, 1978).

G895 *O. castanella* (DALL, 1887)

- Type locality: none designated.
- Distribution: Kuril islands, Aleutian islands (Kyska to Atka islands, DALL, 1921).

- Original genus: *Alvania*.

G896 *O. cerinella* DALL, 1887

- Type locality: Atka island, Aleutian islands.
- Distribution: Kuril islands, Aleutian islands.

G897 *O. kurilensis* (GOLIKOV & GULBIN, 1977)

- Type locality: Kuril islands.
- Distribution: unknown.

□ Genus *Lucidestea* LASERON, 1956-a

Type species: *Lucidestea vitrea* LASERON, 1956 (o. d.)

G898 *L. ornata* (GOLIKOV & KUSAKIN, 1967)

(= '*L. oranata* GORIKOV & KUSSAKIN' sensu TSUCHIDA, 1990)

Kita-no-kotsubo

- Type locality: Possiet (Posyet) bay, southern Primoriye region (Japan Sea coast of Russia).
- Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay TSUCHIDA, 1990); Primoriye region.
- Original genus: *Falsisetia*.

G899 *L. paludinoides* (YOKOYAMA, 1927)

Tanishi-tsubo

- Type locality: Dokan-yama, Yanaka, Tōkyō (fossil).
- Distribution: western Japan Sea (Yamaguchi prefecture FUKUDA *et al.*, 1992), Ogasawara islands (Chichijima FUKUDA, 1993), P7-P5.
- Habitat: intertidal, sand.
- Original genus: *Rissoa* (*Cingula*).

G900 *L. minima* A. ADAMS, 1860-h

Ko-tsubu

- Type locality: Tsushima, western Japan Sea; 26 fms.
- Distribution: Japan Sea (Sado island and southwards, J3-J1).
- Habitat: 25-50 m., sand.
- Original genus: *Rissoella*.

G901 *L. mundula* A. ADAMS, 1860-h

Shiro-ko-tsubu-gai

- Type locality: Tsushima, western Japan Sea; 26 fms.
- Distribution: Tōkyō bay (FUKUDA, 1996) and southwards, P6-P5, Japan Sea (J1), EC5.
- Habitat: 20-60 m., sand.
- Original genus: *Rissoella*.

Subfamily **RISSOININAE STIMPSON, 1865-c**

□ Genus *Rissoina* D'ORBIGNY, 1840

Type species: *Rissoina inca* D'ORBIGNY, 1840 (o. d.)

(= *Zebinella* MÖRCH, 1876; *Moerchiella* NEVILL, 1885; *Stiva* HEDLEY, 1904; *Chiliostigma* MELVILL, 1918; *Caporista* IREDALE, 1955; *Peripetella* LASERON, 1956-a; *Austrosina* LASERON, 1958; *Condylicia* LASERON, 1958; *Plenoconea* LASERON, 1958; *Zymalata* LASERON, 1958; *Laseronia* COTTON, 1959)

Subgenus *Rissoina s. str.*

G902 *R. (R.) rosea* (DESHAYES, 1863)

Bara-iro-chōji-gai

- Type locality: Réunion, Indian Ocean.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2; Réunion.
- Habitat: intertidal, sand or gravel.
- Original genus: *Rissoa*.

G903 *R. (R.) antoni* SCHWARTZ, 1860

- Type locality: 'Java' (Indonesia).
- Distribution: Okinawa islands; Indonesia.

G904 *R. (R.) canaliculata* SCHWARTZ, 1860

(= *R. (Rissoina) distans sensu* TRYON, 1887)

- Type locality: 'Philippinen' (Philippines).
- Distribution: 'Pacific coast' (KURODA & HABE, 1952-a); Philippines.

G905 *R. (R.) lyrata* GOULD, 1861 in 1859-61

- Type locality: 'Kikaia' (Kikai island, Amami islands) and 'Ousima' (Amami Ōshima).
- Distribution: Amami Ōshima (KURODA, 1928), Kikai-Shima (Amami islands).

G906 *R. (R.) modesta* GOULD, 1861 in 1859-61

- Type locality: 'Loo Choo' (Okinawa).
- Distribution: Okinawa (KURODA, 1960).

G907 *R. (R.) monilifera* NEVILL, 1875

- Type locality: 'Japan'.
- Distribution: 'Pacific coast' (KURODA & HABE, 1952-a)

G908 *R. (R.) striolata* A. ADAMS, 1853-i

- Type locality: Baclayan island, Philippines.
- Distribution: 'Pacific side, 9°-? N.' (KURODA & HABE, 1952-a); Philippines.

G909 *R. (R.) subfuniculata* NEVILL, 1878

- Type locality: 'Kachiyama' (possibly Tateyama, Chiba prefecture, central Honshū).
- Distribution: 'Pacific coast to 35° N.' (KURODA & HABE, 1952-a); Singapore, Persian Gulf.

G911 *R. (R.) reticulata* (SOWERBY I, 1824 in 1821-34)

(= *Rissoa striata* QUOY & GAIMARD, 1832)

Habutae-chōji-gai (= Me-oni-chōji-gai)

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P11, Ogasawara islands, P5, ECP4-ECP2.
- Habitat: intertidal, coarse sand and stones.
- Original genus: *Rissoa*.

G912 *R. (R.) tenuistriata* PEASE, 1868-b

Hoso-habutae-chōji-gai

- Type locality: 'Paumotos' (Tuamotu Archipelago).
- Distribution: Amami Ōshima (Akagina); tropical western

Pacific.

- Habitat: intertidal, coarse sand and stones.

G913 *R. (R.) lamberti* SOUVERBIE in SOUVERBIE & MONTROUZIER, 1870 in 1859-79

(= *Rissoina artensis* MONTROUZIER, 1872)

Tsumugata-chōji-gai

- Type locality: New Caledonia.
- Distribution: Ogasawara islands (Chichijima), Amami Ōshima; New Caledonia.
- Habitat: intertidal, coarse sand and stones.

G914 *R. (R.) concinna* (LASERON, 1956-a)

- Type locality: Michaelmas Cay, Queensland, Australia.
- Distribution: Amami Ōshima (EKAWA, 1993-a); Australia.
- Original genus: *Zymalata*.

G915 *R. (R.) imbricata* GOULD, 1861 in 1859-61

(= *Rissoina striatula* PEASE, 1868)

Makisuji-chōji-gai

- Type locality: 'China Seas'.
- Distribution: Ogasawara islands and southwards, Amami islands; China Sea.
- Habitat: intertidal, coarse sand and stones.

G916 *R. (R.) inermis* BRAZIER, 1877-d

- Type locality: Darnley island, Torres strait (northern Australia); 30 fms.
- Distribution: Amami Ōshima (EKAWA, 1993-a); Australia.

G917 *R. (R.) gigantea* (DESHAYES, 1850 in 1839-58)

- Type locality: Philippines.
- Distribution: southeastern Kyūshū (Shibushi bay), Amami islands and southwards, ECP3-ECP2; western Pacific.
- Original genus: *Rissoa*.

G918 *R. (R.) spirata spirata* (SOWERBY I, 1824 in 1821-34)

Ō-kawari-bori-chōji-gai

- Type locality: none designated.
- Distribution: Kii peninsula and southwards; central Pacific.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Rissoa*.

G919 *R. (R.) spirata montrouzieri* (SOUVERBIE, 1862 in SOUVERBIE & MONTROUZIER, 1859-79)

(= *Rissoina (Moerchiella) supracostata sensu* KURODA, 1928-c; *Zebina supracostata sensu* S. HIRASE, 1934; *Zymalata (Condylicia) spirata sensu* HABE, 1964, HABE & KOSUGE, 1967; *Z. spirata sensu* SAKURAI, 1986; *Rissoina (Moerchiella) okinawensis* SLEURS, 1993)

Kawari-bori-chōji-gai

- Type locality: New Caledonia.



- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, Ogasawara islands; western Pacific, New Caledonia.
- Habitat: intertidal, coarse sand and stones.

**G920 *R. (R.) villica* GOULD, 1861 in 1859-61**

- Type locality: 'Loo Choo' (Okinawa) and 'Kikaia' (Kikai island, Amami islands).
- Distribution: Kikai-shima (Amami islands), Amami Ōshima and southwards, ECP3-ECP2, P2.
- Habitat: intertidal, coarse sand and stones.

**G921 *R. (R.) collaxis* (LASERON, 1956)**

- Type locality: 'No. 1, Howick group' (off northern Queensland, Australia).
- Distribution: Amami Ōshima (EKAWA, 1993-a); Australia.
- Original genus: *Condylicia*.

**G922 *R. (R.) ambigua* (GOULD, 1849 in 1846-50)**

- (= *R. multicosata* GARRETT, 1857; *R. costulifera* PEASE, 1862; *R. materinsulae* PILSBRY, 1904)  
Hoso-suji-chōji-gai (= Naname-chōji-gai)
- Type locality: Cleremont Tonnerre (Reao) island, Paumotu (Tuamotu Archipelago).
  - Distribution: Kii peninsula, P11, Ogasawara islands and southwards, P5, EC5, ECP4-ECP2, P2; western Pacific.
  - Habitat: intertidal to 20 m., coarse sand and stones.
  - Original genus: *Pyramidella*.

**G923 *R. (R.) duclosi* MONTROUZIER in SOUVERBIE & MONTROUZIER, 1866 in 1859-79**

- Type locality: New Caledonia.
- Distribution: Okino-erabu island (Amami islands); New Caledonia.

**G924 *R. (R.) turricula* PEASE, 1860-b**

- Ganko-chōji-gai
- Type locality: Hawaii.
  - Distribution: Ogasawara islands (Chichijima FUKUDA, 1993) Amami Ōshima (EKAWA, 1993-a); Hawaii.
  - Habitat: intertidal to 3 m., tidepools and under rocks.

**G925 *R. (R.) fimbriata* SOUVERBIE, 1872**

- Nonbiri-chōji-gai
- Type locality: Île d'Art, New Caledonia.
  - Distribution: Ogasawara islands (Ōmura, Chichijima FUKUDA, 1993); tropical western Pacific.
  - Habitat: intertidal.

**G926 *R. (R.) obeliscus* RÉCLUZ in SCHWARTZ, 1860**

- Kiriko-chōji-gai
- Type locality: 'die Insel Mauritius'.
  - Distribution: Amami Ōshima (Kasari H. KUBOTA, 1962); Indo-Pacific.

**Note:** Schwartz also identified material taken by the

Novara expedition in beach sand from Sydney, Australia as belonging to this species.

**G927 *R. (R.) pulchella* BRAZIER, 1877-d**

- (= *R. honoluluensis* WATSON, 1886 in 1885-86)
- Type locality: 'Barnard Islands, No. 3, North-east Australia; Home Islands, off Cape Grenville'.
  - Distribution: Amami Ōshima (EKAWA, 1993-a); Australia.

**G928 *R. (R.) otohimeae* KOSUGE, 1965-a**

- Otohime-chōji-gai
- Type locality: off Hayama, Sagami bay, central Honshū.
  - Distribution: Sagami bay and southwards, Enshū-nada, off Kii peninsula, P5, EC5.
  - Habitat: 50-100 m., sand.

**Subgenus *Rissolina* GOULD, 1861 in 1859-61**

Type species: *Rissolina plicatula* GOULD, 1861 (s. d. NEVILL, 1885)  
(= *Costalynia* LASERON, 1956-a)

**G929 *R. (Rissolina) plicatula* GOULD, 1861 in 1859-61**

- Hoso-une-chōji-gai (= Hidatori-chōji-gai)
- Type locality: 'Port Lloyd' (Futami harbour, Ogasawara islands), 'Kikaia' (Kikaishima, Amami islands), and 'Loo Choo' (Okinawa).
  - Distribution: Ogasawara islands, Amami islands and southwards, Okinawa islands.
  - Habitat: intertidal, coarse sand and stones.

**G930 *R. (Rissolina) scolopax* SOUVERBIE, 1881**

- Nise-chōji-gai
- Type locality: Loyalty islands, New Caledonia.
  - Distribution: Amami islands and southwards, ECP3-ECP2, Ogasawara islands; New Caledonia.
  - Habitat: intertidal, coarse sand and stones.

**G931 *R. (Rissolina) distans* (ANTON, 1838)**

- Ko-nise-chōji-gai
- Type locality: none designated.
  - Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines.
  - Habitat: intertidal, coarse sand and stones.
  - Original genus: *Rissoa*.

**G932 *R. (Rissolina) costulata* (DUNKER, 1860)**

- (= *Rissoina laevicostulata* PILSBRY, 1904)  
Suji-uneri-chōji-gai
- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
  - Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea.
  - Habitat: intertidal to 20 m., coarse sand and stones.
  - Original genus: *Rissoina*.

G933 ***R. (Rissolina) birestes* (LASERON, 1956-a)**

Hoso-une-chōji-gai

- Type locality: Albany passage, Torres strait, northern Australia; 4-14 fms.
- Distribution: Amami Ōshima (Tsuchi-hama; Akagina, EKAWA, 1993-a), Australia.
- Original genus: *Costalynia*.

G934 ***R. (Rissolina) bilinea* LASERON, 1956-a**

- Type locality: Murray island, Torres strait, Australia.
- Distribution: Amami Ōshima (Uken-mura; Yakiuchi bay, EKAWA, 1993-a); Australia.
- Original genus: *Costalynia*.

G935 ***R. (Rissolina) plicata* A. ADAMS, 1853-i**

(= *Rissoina rissoi* FISCHER, 1901)

Kebori-nise-chōji-gai

- Type locality: Masbate island, Philippines.
- Distribution: P11, Ogasawara islands, Amami islands and southwards, ECP3-ECP2; Philippines, Red Sea, Mauritius.
- Habitat: intertidal, coarse sand and stones.

Subgenus *Apataxia* LASERON, 1956-a

Type species: *Apataxia erecta* LASERON, 1956 (o. d.)

(= *Apataxis auct.*)

G936 ***R. (A.) balteata* PEASE, 1869-a**

(= *R. costulata* PEASE, 1869 non DUNKER, 1860; *R. cerithiopsis* PEASE, 1869; *R. cerithiiformis* TRYON, 1887; *Rissoina miltozona* TOMLIN, 1915-a)

Kin-suji-chōji-gai

- Type locality: 'Insl. Hawaii'.
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, EC5, ECP4-ECP2, P2; Indo-Pacific.
- Habitat: intertidal to 20 m., coarse sand and stones.

Subgenus *Phosinella* MÖRCH, 1876

Type species: *Rissoa pulchra* C. B. ADAMS, 1850 (s. d. NEVILL, 1885)

(= *Phintorene* IREDALE, 1955; *Planapexia* LASERON, 1956)

G938 ***R. (P.) pura* (GOULD, 1861 in 1859-61)**

(= *Alvania fusca* GOULD, 1861; *Rissoina media* SCHWARTZ, 1860; *R. concinnua sensu* IWAKAWA, 1919; *Rissoina (Phosinella) cancellata awana* YOKOYAMA, 1924)

Nunome-chōji-gai

- Type locality: 'Simoda' (Shimoda, Izu peninsula, central Honshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea, southern China.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Alvania*.

G939 ***R. (P.) tornatilis* GOULD, 1861 in 1859-61**

(= *R. exasperata* SOUVERBIE, 1866; *R. transenna* WATSON, 1886 in 1885-86)

Ko-shibori-chōji-gai (= Ariso-chōji-gai)

- Type locality: 'Loo Choo' (Okinawa).
- Distribution: Kii peninsula and southwards, P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2 (Amami Ōshima EKAWA, 1993-a).
- Habitat: intertidal to 20 m., coarse sand and stones.

G940 ***R. (P.) dunkeriana* (KURODA & HABE in HABE, 1961-a)**

(= *P. tornatilis sensu* HABE & KOSUGE, 1967, EKAWA, 1985-d, SAKURAI, 1986, HIGO & GOTŌ, 1993)

Kagome-chōji-gai

- Type locality: Tomioka bay, Amakusa, western Kyūshū; 10-20 m., sandy mud.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2; China.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Phosinella*.

G940 ***R. (P.) clathrata* A. ADAMS, 1853-i**

Ō-kagome-chōji-gai

- Type locality: Bohol island, Philippines.
- Distribution: Kii peninsula and southwards, P5, EC5; Philippines, Indo-Pacific.
- Habitat: intertidal to 20 m., coarse sand and stones.

G941 ***R. (P.) nitida* (A. ADAMS, 1853-i)**

(= *Rissoina (Phosinella) bellula* A. ADAMS *sensu* TRYON, 1887 non A. ADAMS, 1861)

Arare-chōji-gai

- Type locality: 'Isle of Camaguig' (Philippines).
- Distribution: Kii peninsula and southwards, P5, EC5; Philippines.
- Habitat: intertidal to 20 m., coarse sand and stones.

G942 ***R. (P.) strigillata* GOULD, 1861 in 1859-61**

(= *Rissoina (Phosinella) erythraea sensu* TRYON, 1887)

- Type locality: 'Loo Choo' (Okinawa).
- Distribution: Okinawa (KURODA, 1960).

G943 ***R. (P.) caelata* (LASERON, 1956-a)**

• Type locality: Michaelmas Cay, off Cairns, Queensland, Australia.

- Distribution: Amami Ōshima (EKAWA, 1993-a); Australia.
- Original genus: *Phintorene*.

G944 ***R. (P.) angulata* (LASERON, 1956-a)**

• Type locality: Michaelmas Cay, off Cairns, Queensland, Australia.

- Distribution: Amami Ōshima (EKAWA, 1993-a); Australia.

• Original genus: *Phintorene*.

□ Genus *Stosicia* BRUSINA, 1870

Type species: *Rissoa buccinalis* GRATELOUP, 1828 non LAMARCK, 1804 (o. d.; = *R. planaxoides* GRATELOUP, 1838)

Subgenus *Stosicia* s. str.

G945 *S. (S.) annulata* (DUNKER, 1860)

(= *Rissoa trochlearis* GOULD, 1861; *R. ligata* GOULD, 1861)

Goma-tsubo

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: Bōsō peninsula and southwards, Ogasawara islands (Chichijima FUKUDA, 1993), P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5; China.
- Habitat: intertidal, sand.
- Original genus: *Rissoina*.

Subgenus *Isseliella* WEINKAUFF, 1881

Type species: *Rissoina mirabilis* WEINKAUFF, 1881 (o. d.)

(= *Isselina* SEMPER in SCHMELTZ, 1874; *Isellia* SEMPER in SCHMALTZ, 1874 nom. nud.)

G946 *S. (I.) bourguignati* (ISSEL, 1869)

(= *Nassa semitexta* HEDLEY, 1899-a; *I. kubotai* KURODA, MS sensu HIGO, 1973 nom. nud.)

Mushiro-chōji-gai

- Type locality: Red Sea.
- Distribution: Amami islands, Okinawa (HABE, 1981-b), ECP3-ECP2; Funafuti, Tuamotu islands, Tahiti, Queensland (Australia).
- Habitat: intertidal, coarse sand and stones.
- Original genus: *Alvania*.

G947 *S. (I.) pseudoconcinna* (NEVILL, 1885)

(= *Rissoina polytropa* HEDLEY, 1899-a; *I. incisa* LASERON, 1956-a)

Kuchikire-chōji-gai (= Hime-kuchikire-chōji-gai)

- Type locality: 'Japan'.
- Distribution: Amami Ōshima (EKAWA, 1993-a) and southwards, ECP3-ECP2, P2.
- Habitat: intertidal, coarse sand and stones.
- Original genus: *Rissoina*.

G948 *S. (I.) hiloense* (PILSBRY & VANATTA, 1908)

(= *I. lateralis* LASERON, 1956-a)

Kanimori-tsubo (= Oni-kuchikire-chōji-gai)

- Type locality: Hilo, Hawaii.
- Distribution: Amami Ōshima (EKAWA, 1993-a); Hawaii, Christmas island, northern Australia.
- Habitat: intertidal to 8 m., coarse sand and stones.
- Original genus: *Bittium*.

□ Genus *Schwartziella* NEVILL, 1881

Type species: *Rissoina orientalis* NEVILL, 1881 (o. d.) (= *Rissionella* ŌYAMA in Is. TAKI & ŌYAMA, 1954; *Atlantorissoina* KOSUGE, 1965)

Subgenus *Schwartziella* s. str.

G949 *S. (S.) triticea* (PEASE, 1860-b)

(= *Rissoina subfirmata* BÖTTGER, 1887)

Futo-une-chōji-gai

- Type locality: 'Sandwich Islands' (Hawaii).
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, ECP4-ECP2; Hawaii.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Rissoina*.

G950 *S. (S.) adamsiana* (WEINKAUFF, 1886)

(= *Rissoina zeltneroides* YOKOYAMA, 1920)

Hasume-chōji-gai

- Type locality: 'Kachiyama, Japan' (possibly Tateyama, Chiba prefecture).
- Distribution: Bōsō peninsula and southwards, P7-P5, Ōsaka bay (OKAMURA & KOJIMA, 1984), EC5.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Rissoina*.

Subgenus *Pandalosia* LASERON, 1956-a

Type species: *Pandalosia excelsis* LASERON, 1956 (o. d.)

G951 *S. (P.) excelsis* (LASERON, 1956-a)

Giyaman-chōji-gai

- Type locality: Murray island, Torres Strait, Australia.
- Distribution: Ogasawara islands (Chichijima FUKUDA, 1993); Australia.
- Original genus: *Pandalosia*.

G952 *P. oceanica* LASERON, 1956-a

• Type locality: Christmas island (Indian Ocean, off Indonesia).

• Distribution: Amami Ōshima (Tsuchi-hama); Christmas island.

G953 *S. (P.) ephamilla* (WATSON, 1886 in 1885-86)

(= *Rissoina scalariformis* WATSON, 1886 in 1885-86) Hina-chōji-gai

- Type locality: off Honolulu, Hawaii; 40 fms.
- Distribution: Kii peninsula (Susami-cho; Kushimoto EKAWA, 1991-a), Mie prefecture (Kumano City), Amami Ōshima; Hawaii.
- Habitat: 25-50 m., coarse sand and stones.
- Original genus: *Rissoina*.

G954 *S. (P.) subulata* (LASERON, 1956-a)

Ruri-chōji-gai

- Type locality: Heron island, Capricorn group, Australia
- Distribution: Amami Ōshima (EKAWA, 1993-a); Australia.

- Original genus: *Pandalosia*.

□ Genus *Microstelma* A. ADAMS, 1863-i

Type species: *Microstelma daedala* A. ADAMS, 1863 (o. d.)

(= *Amaurella* A. ADAMS, 1867-a)

G955 *M. daedala* A. ADAMS, 1863-i

• Type locality: 'Gotto (Gotō) islands, 48 fathoms' (western Kyūshū).

• Distribution: 'Pacific side, 33° N.' (KURODA & HABE, 1952-a).

G956 *M. flava* OKUTANI, 1964-b

• Type locality: 'Sōyō-Marū' sta. 59, Sagami bay, central Honshū: 35° 05.35' N., 139° 18.65' E., 550 m.

• Distribution: Pacific Ocean off central Honshū, 500-1000 m.

G957 *M. japonica* (A. ADAMS, 1860-c)

Otohime-tamagai

• Type locality: off Mishima (Japan Sea).

• Distribution: off Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986), Kii peninsula and southwards, P5, Japan Sea (off Mishima, J2-J1), EC5.

• Habitat: 50-100 m., sandy mud.

• Original genus: *Lachesis*.

G958 *M. semistriata* (A. ADAMS, 1867-a)

• Type locality: 'Kino-O-sima' (Kii-Ōshima, Wakayama prefecture, central Honshū).

• Distribution: Kii peninsula and southwards, P5, EC5.

• Habitat: 10-50 m., sandy mud.

• Original genus: *Amaurella*.

G959 *M. glabrata* (A. ADAMS, 1867-a)

(= *A. glabrata sensu* HIGO & GOTŌ, 1993, *err. pro glabrata*)

• Type locality: 'Takano-Sima' (Takanoshima, southern Bōsō peninsula, Chiba prefecture).

• Distribution: Kii peninsula and southwards, P5, EC5.

• Habitat: 10-50 m., sandy mud.

• Original genus: *Amaurella*.

□ Genus *Zebina* H. & A. ADAMS, 1854 in 1853-58

Type species: *Rissoina browniana* D'ORBIGNY 1842 (o. d.)

Subgenus *Zebina s. str.*

G960 *Z. (Z.) tridentata* (MICHAUD, 1830)

Kurimushi-chōji-gai

• Distribution: Kii peninsula and southwards, P11,

Ogasawara islands, P5, EC5, ECP4-ECP2; western Pacific.

• Habitat: intertidal, sand.

• Original genus: *Rissoa*.

G961 *Z. (Z.) semiplicata* (PEASE, 1862-b)

(= *Rissoina affinis* GARRETT, 1873)

Nakama-kurimushi-chōji-gai

• Distribution: Kii peninsula and southwards, P11, Ogasawara islands, P5, EC5, ECP4-ECP2; Hawaii, Indo-western Pacific.

• Habitat: intertidal, sand.

• Original genus: *Rissoina*.

G962 *Z. (Z.) lis* TOMLIN, 1918

(= *Z. inflata* LASERON, 1956-a)

Isakai-kurimushi-chōji-gai

• Type locality: 'Ryūkyū' (Okinawa).

• Distribution: Kii peninsula and southwards, P11, Ogasawara islands, P5, ECP3-ECP2.

• Habitat: intertidal, sand.

G963 *Z. (Z.) subulina* WEINKAUFF, 1881

(= *Z. nitens* LASERON, 1956-a)

Kebori-kurimushi-chōji-gai

• Type locality: Japan.

• Distribution: Amami Ōshima (EKAWA, 1993-a), 'Pacific coast' (KURODA & HABE, 1952-a); Australia.

G964 *Z. (Z.) benthicola* HABE, 1961-a

Watazoko-chōji-gai

• Type locality: off Cape Ashizuri, southwestern Shikoku.

• Distribution: Suruga bay and westwards, Enshū-nada, Kii peninsula, southern Shikoku.

• Habitat: 100-200 m., sand.

G965 *Z. (Z.) acicula* LASERON, 1956-a

• Type locality: Christmas Island (Indian Ocean, off Indonesia).

• Distribution: Amami Ōshima (EKAWA, 1993-a); type locality.

G966 *Z. (Z.) linearis* LASERON, 1956-a

• Type locality: Christmas Island (Indian Ocean, off Indonesia).

• Distribution: Amami Ōshima (EKAWA, 1993-a); type locality.

G967 *Z. (Z.) isolata* LASERON, 1956-a

• Type locality: Christmas Island (Indian Ocean, off Indonesia).

• Distribution: Amami Ōshima (EKAWA, 1993-a); type locality.

Subgenus *Takirissoina* ŌYAMA, 1962-a

Type species: *Rissoina japonica* WEINKAUFF, 1886 (o. d.)

G968 *Z. (Takirissoina) japonica* (WEINKAUFF, 1886)

Mijin-chōji-gai

• Type locality: Japan.

• Distribution: Kii peninsula and southwards, P5, EC5.

• Habitat: intertidal, coarse sand and stones.

• Original genus: *Rissoina*.

Subgenus ***Tomlinella* VIADER, 1938**

Type species: *Tomlinella miranda* VIADER, 1938

(= *Dentrissoina* LASERON, 1956-a; *Ishimoria* KURODA, 1960)

G969 ***Z. (Tomlinella) insignis* (ADAMS & REEVE, 1850 in 1848-50)**

Semushi-chōji-gai

- Type locality: 'China Sea'.
- Distribution: Amami Ōshima and southwards, Okinawa islands.
- Habitat: intertidal, coarse sand and stones.
- Original genus: *Rissoa*.

G970 ***Z. (Tomlinella) lamellata* (KURODA, 1960)**

Sango-nina

- Type locality: Tomari, Naha district, Okinawa.
- Distribution: off Kashiwajima (southwestern Shikoku); Okinawa.
- Habitat: in coral.
- Original genus: *Ishimoria*.

□ Genus ***Lamellirissoina* KURODA & HABE, 1991**

Type species: *Lamellirissoina pulchella* KURODA & HABE, 1991 (o. d.)

G971 ***L. pulchella* KURODA & HABE, 1991**

Hiro-une-chōji-gai

- Type locality: Shikaura, Tokunoshima (Amami islands).
- Distribution: Tokunoshima, Okino-erabu-shima (Amami islands).

Family **BARLEEIDAE GRAY, 1857**

(= BARLEEIDAE *sensu* TSUCHIDA, 1990)

□ Genus ***Barleeia* CLARK, 1855**

Type species: *Turbo ruber* J. C. ADAMS, 1797 (o. d.)  
(= *Barleia*, *Barleeja*, *Bareleeia auct.*; *Pseudodiala* PONDER, 1967; *Ansola* SLAVOSHEVSKAYA, 1975)

G972 ***B. angustata* (PILSBRY, 1901-b)**

(= *B. bifasciata* HABE *sensu* OKUTANI, 1975)

Cha-tsubo (= Tōgata-cha-tsubo; Tōgata-kawa-zanshō)

- Type locality: 'Rishiri, Kitami' (Rishiri island, northwestern Hokkaidō).
- Distribution: northern Kyūshū and northwards, Japan Sea (J1-J5), Iwate prefecture (Ōtsuchi bay TSUCHIDA, 1990), P5-P10, Hokkaidō; Korea.
- Habitat: intertidal on rocks or seaweed.
- Original genus: *Assimineia*.

G973 ***B. trifasciata* HABE, 1960-b**

Misuji-cha-tsubo

- Type locality: Tomioka, Amakusa island, western Kyūshū.
- Distribution: Bōsō peninsula and southwards, P7-P5, western Kyūshū; Korea.

- Habitat: upper intertidal on seaweed or among rocks.

Family **ANABATHRIDAE PONDER, 1988**

□ Genus ***Amphithalamus* CARPENTER, 1864**

Type species: *Amphithalamus inclusus* CARPENTER, 1864 (mt.)

(= *Microfossa* LASERON, 1950; *Obescrobs* IREDALE, 1955)

G974 ***A. fulcra* (LASERON, 1956)**

Ō-chobo-guchi-tsubo

- Type locality: Liodemans island, Queensland, Australia.
- Distribution: Bōsō peninsula and southwards, Izu islands, Japan Sea (Yamaguchi prefecture and westwards), EC5, ECP4-ECP2, P2; tropical and temperate western Pacific (HASEGAWA, 1995).
- Habitat: intertidal to 15 m., on seaweed.
- Original genus: *Scrobs*.

Family **CAECIDAE GRAY, 1850**

(= CTILO CERATIDAE IREDALE & LASERON, 1957) (Refs.: Habe, 1953-b)

□ Genus ***Caecum* FLEMING, 1813**

Type species: *Dentalium trachea* MONTAGU, 1803 (o. d.)  
(= *Brochus* BROWN, 1827; *Ondontina* ZBORZEWSKY, 1834; *Ondontidium* PHILIPPI, 1836; *Anellum* CARPENTER, 1857; *Spirolidium* O. G. COSTA, 1861)

G975 ***C. gracile* GOULD, 1861 in 1859-61**

Mijin-girigiri-zutsu

- Type locality: 'China Seas'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Sado island, J2-J1), ECP4-ECP2; China.
- Habitat: intertidal, sand.

G976 ***C. maculatum* HABE, 1963-b**

Madara-mijin-girigiri-zutsu

- Type locality: Ankyaba, Kakeroma island (Amami islands).
- Distribution: western Japan Sea (Yamaguchi prefecture FUKUDA *et al.*, 1992), Amami islands and southwards, Okinawa islands.
- Habitat: intertidal, sand.

G977 ***C. heterapex* HABE, 1963-b**

Shitadami-mijin-girigiri-zutsu

- Type locality: Ankyaba, Kakeroma island (Amami islands).
- Distribution: recorded only from type locality.

G978 ***C. hinoidei* HABE, 1978-c**

Hinoide-mijin-girigiri-zutsu

- Type locality: Tsuchi-hama (beach), Amami Ōshima.
- Distribution: Amami islands and southwards, Okinawa islands.
- Habitat: intertidal, sand.

G979 *C. vertebrale* HEDLEY, 1899-a

Tōmaki-mijin-girigiri-zutsu

- Type locality: Funafuti, Ellice Islands (Tuvalu, Polynesia), on sand beach.
- Distribution: Izu peninsula (Shimoda); southern Pacific, Australia.

**Note:** Hedley also identified a fragment trawled by the 'Challenger' off Honolulu, Hawaii, as belonging to this species.

□ Genus *Brochina* GRAY, 1857

Type species: *Dentalium glabrum* MONTAGU, 1803 (o. d.)

(= *Armata* FOLIN, 1875)

G980 *B. glabella* (A. ADAMS, 1868-b)

(= *Caecum vitreum sensu* YOKOYAMA, 1922; *C. sp. sensu* S. HIRASE, 1934

Mijin-tsutsu-gai

- Type locality: 'Akasi and Tanabe' (Akashi, eastern Seto Inland Sea and Tanabe bay, western Kii peninsula).
- Distribution: northern Hokkaidō and southwards, P10-P5, Japan Sea (Sado island, J2-J1), EC5, Seto inland sea.
- Habitat: intertidal in sand among rocks and rubble.
- Original genus: *Brochina*.

□ Genus *Meioceras* CARPENTER, 1858

Type species: '*Caecum nitidum* CARPENTER' sensu THIELE, 1931 (= ?*Caecum nitidum* STIMPSON, 1851)

G981 *M. kajiyamai* HABE, 1963-b

Paipu-mijin-tsutsu-gai

- Type locality: Ankyaba, Kakeroma island (Amami islands).
- Distribution: ECP3-ECP2 and southwards.
- Habitat: intertidal, sand.

□ Genus *Fartulum* CARPENTER, 1857

Type species: *Caecum laeve* C. B. ADAMS, 1852 (o. d.) (= *Levia* DE FOLIN, 1869; *Defolina* WEISBORD, 1962)

G982 *F. amamiensis* HABE, 1978-c

Amami-mijin-tsutsu-gai

- Type locality: Tsuchi-hama (beach), Amami Ōshima.
- Distribution: recorded only from type locality.

G983 *F. magatama* HABE, 1978-c

Magatama-mijin-tsutsu-gai

- Type locality: Tsuchi-hama (beach), Amami Ōshima.
- Distribution: recorded only from type locality.

□ Genus *Pictocaecum* HABE, 1978-c

Type species: *Pictocaecum japonicum* HABE, 1978 (o. d.)

G984 *P. japonicum* HABE, 1978-c

Moyō-mijin-tsutsu-gai

- Type locality: Matsuga-ura, Chiran, Kagoshima prefecture, southern Kyūshū.

- Distribution: Izu peninsula and southwards, P6-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP3.

- Habitat: intertidal, sand.

□ Genus *Parastrophia* FOLIN, 1869

Type species: *Moreletia cornucopiae* FOLIN, 1869 (o. d.) (= *Moreletia* FOLIN, 1869 non GRAY, 1855; *Pedumicra* IREDALE & LASERON, 1957)

G985 *Parastrophia japonica* HINOIDE & HABE, 1978

Noshiji-gai

- Type locality: Tsuchi-hama (beach), Amami Ōshima.
- Distribution: Amami islands and southwards, Okinawa group.
- Habitat: intertidal, sand.

Family VITRINELLIDAE BUSH, 1897

□ Genus *Vitrinella* C. B. ADAMS, 1850

Type species: *Vitrinella helicoidea* C. B. ADAMS, 1850 (s. d. BUSH, 1897)

(= *Dierama* PFEIFFER, 1877)

G986 *V. diaphana* (A. ADAMS, 1863-c)

Iso-kohaku-gai

- Type locality: 'Gotto' (Gotō islands, off western Kyūshū), 71 fms.
- Distribution: Kii peninsula and southwards, Seto inland sea, Kyūshū.
- Habitat: intertidal, sand.
- Original genus: *Adeorbis*.

G987 *V. cornicula* (A. ADAMS, 1861-e)

- Type locality: 'Mino-Sima' (Mishima, Japan Sea), 63 fms.
- Distribution: recorded only from type locality.
- Original genus: *Adeorbis*.

G988 *V. suturalis* (A. ADAMS, 1861-e)

- Type locality: 'Tsu-Sima' (Tsushima, western Japan Sea); 26 fms.
- Distribution: recorded only from type locality.
- Original genus: *Adeorbis*.

□ Genus *Tubiola* A. ADAMS, 1863-c

Type species: *Skenea cornuella* A. ADAMS, 1860 (o. d.)

G989 *T. cornuella* (A. ADAMS, 1860-c)

- Type locality: 'Off Mino-Sima' (Mishima, Japan Sea); Straits of Korea; 63 fathoms'.
- Distribution: recorded only from type locality.
- Original genus: *Skenea*.

□ Genus *Morchinella* THIELE, 1925

Type species: *Moerchia obvoluta* A. ADAMS, 1860 (o. d.) (= *Moerchia* A. ADAMS, 1860 non ALBERS, 1850; *Moerchiella sensu* THIELE, 1925, emended)

**Notes:** Thiele (1931) notes in the index: 'soll heissen *Mörchinella*!' (should be 'Mörchinella').

G990 *M. obvoluta* (A. ADAMS, 1860-b)

(= *Moerchia moreleti* FISCHER, 1877)

Utsubushi-shitadami

- Type locality: 'Washington Sound, off Tsu-Sima, Straits of Korea, 26 fms.'
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4, ECP3.
- Habitat: intertidal, sand.
- Original genus: *Moerchia*.

□ Genus *Microthyca* A. ADAMS, 1863-h

Type species: *Isander crenellifera* A. ADAMS, 1862 (o. d.)

(= *Microtheca* A. ADAMS, 1864; *Microthyra sensu*

EKAWA, 1992-b)

G991 *M. crenellifera* (A. ADAMS, 1862-c)

(= *Cyclostrema stilicidiatum* YOKOYAMA, 1922)

Giboshino-tsubo

- Type locality: 'Gotto (Gotō) islands; 71 fathoms' (western Kyūshū).
- Distribution: Sagami bay, Ōsaka bay, southern Shikoku (Tosa-okitsu), Japan Sea (Wakasa bay; off Tsunoshima), western Kyūshū, Amami Ōshima.
- Habitat: 50-150 m., sand.
- Original genus: *Isander*.

□ Genus *Pseudoliotia* TATE, 1898

Type species: *Cyclostrema micans* A. ADAMS, 1850 (o. d.)

G992 *P. pulchella* (DUNKER, 1860)

(= *Cyclostrema micans* A. ADAMS, 1850 *sensu*

IWAKAWA, 1919; *Pseudoliotia micans* A. ADAMS *sensu*

S. HIRASE, 1934; *Pseudoliotia asteriscus sensu* HABE, 1964 *non* *Liotia asteriscus* GOULD, 1859)

Shira-giku-gai (= Hime-giku-gai)

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: northeastern Honshū (Iwate prefecture) (Sanriku coast) and southwards, northern Honshū to southern Kyūshū, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Cyclostrema*.

G993 *P. granulosa* KURODA & HABE in KURODA *et al.*, 1971

Katabe-shiragiku

- Type locality: Sagami bay, central Honshū.
- Distribution: Sagami bay, Suruga bay.

G994 *P. reeviana* (REEVE, 1843 in 1843-65)

Ryūkyū-shiragiku

- Type locality: 'Straits of Malacca (found at the depth of seventeen fathoms).'
- Distribution: Okinawa (Sashiki-cho, Shinzato);

Philippines, type locality.

- Original genus: *Delphinula*.

G995 *P. astericus* (GOULD, 1859-c)

Hime-shiragiku

- Type locality: Hong Kong.
- Distribution: Seto inland sea; China.
- Habitat: intertidal, sand.
- Original genus: *Liotia*.

G996 *P. anaglypta* (A. ADAMS, 1863-c)

- Type locality: Yobuko, Saga prefecture, northern Kyūshū.

- Distribution: recorded only from type locality.

- Original genus: *Cyclostrema*.

G997 *P. godeti* (DAUTZENBERG & FISCHER, 1907)

- Type locality: Ben Son beach, Annam, Vietnam.

- Distribution: 'Pacific coast, 10°-25° N.' (KURODA & HABE, 1952-a); type locality.

□ Genus *Woodringilla* PILSBRY & OLSSON, 1951

Type species: *Woodringilla glyptylus* PILSBRY &

OLSSON, 1951 (o. d.)

G998 *W. solida* (LASERON, 1954-a)

Manju-shitadami

- Type locality: New South Wales, Australia.
- Distribution: Ogasawara islands (Hahajima FUKUDA, 1993), Ryūkyū islands; Australia.
- Original genus: *Cavostella*.

□ Genus *Ponderinella* MARSHALL, 1988

Type species: *Ponderinella lignicola* MARSHALL, 1988

(o. d.)

G999 *P. major* HASEGAWA, 1997-a

Kitsuki-iso-maimai

- Type locality: Suruga bay, central Honshū: 3.5 km off (Cape) Osezaki, 140-400 m.
- Distribution: Suruga bay (HASEGAWA, 1997-a).
- Habitat: 140-400 m., on wood.

□ Genus *Sigaretornus* IREDALE, 1936

Type species: *Adeorbis sigaretinus* PILSBRY, 1897 (o. d.)

G1000 *S. planus* (A. ADAMS, 1850-e)

Iso-maimai

- Type locality: Dumaguete island, Negros, Philippines.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4; Philippines.
- Habitat: intertidal in bays, sandy mud.
- Original genus: *Cyclotoma*.

□ Genus *Lophocochlias* PILSBRY, 1921-a

Type species: *Haplocochlias minutissimus* PILSBRY, 1921

(o. d.)

G1001 *Lop. minutissimus* (PILSBRY, 1921-a)

Mijin-kabuto-shitadami

- Type locality: Mokapu point, Oahu, Hawaii.
- Distribution: southwestern Shikoku (Kashiwajima), Amami islands and southwards, ECP3-ECP2, Ogasawara islands (FUKUDA, 1993); Hawaii, Tuamotos, Marshall islands.
- Habitat: intertidal, sand.
- Original genus: *Haplocochlias* (*Lophocochlias*).

Family **TORNIDAE SACCO, 1896**

□ Genus *Tornus* **TURTON in CARRINGTON, 1830**  
Type species: *Helix subcarinatus* MONTAGU, 1803 (o. d.) (= *Adeorbis* WOOD, 1842)

G1002 *T. clausus* (A. ADAMS, 1861-e)

- Type locality: 'Tabu-Sima' (Tobishima, Japan Sea), 25 fms.
- Distribution: recorded only from type locality.
- Original genus: *Adeorbis*.

G1003 *T. depressus* (A. ADAMS, 1861-e)

- Type locality: Korea strait, 46 fms.
- Distribution: recorded only from type locality.
- Original genus: *Adeorbis*.

G1004 *T. nanulus* (A. ADAMS, 1861-e)

- Type locality: 'Mino-Sima' (Mishima, Japan Sea), 63 fms.
- Distribution: recorded only from type locality.
- Original genus: *Adeorbis*.

G1005 *T. orbellus* (A. ADAMS, 1861-e)

- Type locality: 'Mino-Sima' (Mishima, Japan Sea), 63 fms.
- Distribution: recorded only from type locality.
- Original genus: *Adeorbis*.

G1006 *T. patruelis* (A. ADAMS, 1861-e)

- (= *T. patmelis* sensu KURODA & HABE, 1952-a, KAWAMOTO & TANABE, 1956, HIGO, 1973, *err. pro - truelis*)
- Type locality: 'Mino-Sima' (Mishima, Japan Sea), 63 fms.
  - Distribution: recorded only from type locality.
  - Original genus: *Adeorbis*.

G1007 *T. prominulus* (A. ADAMS, 1861-e)

- Type locality: Korea strait, 46 fms.
- Distribution: recorded only from type locality.
- Original genus: *Adeorbis*.

G1008 *T. subangulatus* (A. ADAMS, 1863-c)

- Type locality: 'Gotto' (Gotō islands, off western Kyūshū), 48 fms.
- Distribution: recorded only from type locality.
- Original genus: *Adeorbis*.

G1009 *T. trochulus* (A. ADAMS, 1863-c)

- Type locality: 'Gotto' (Gotō islands, off western Kyūshū), 48 fms.
- Distribution: recorded only from type locality.
- Original genus: *Adeorbis*.

G1010 *T. carinatus* (A. ADAMS, 1863-c)

Hina-iso-maimai

- Type locality: 'Seto-Uchi; Akasi' (Akashi, Hyōgo prefecture, Seto inland sea).
- Distribution: Seto inland sea: Hiroshima prefecture (off Takehara EKAWA, 1990-b), type locality.
- Habitat: on sand and shell bottom.
- Original genus: *Adeorbis*.

□ Genus *Uzumakiella* **HABE, 1958-f**

Type species: *Uzumakiella japonica* HABE, 1958 (o. d.)

G1011 *U. japonica* **HABE, 1958-f**

Uzumaki-utsubushi-gai

- Type locality: Shikanose, Harima-nada, eastern Seto inland sea.
- Distribution: Sagami bay and southwards, Enshū-nada, Kii peninsula, Seto inland sea, P6-P5, EC5.
- Habitat: intertidal to 50 m., sand.

□ Genus *Pygmaeorota* **KURODA & HABE, 1954-a**

Type species: *Cyclostrema duplicata* LISCHKE, 1872 (= *Pygmaeorota* KURODA & HABE, 1952-a *nom. nud.*)  
Subgenus *Pygmaeorota s. str.*

G1012 *P. (P.) duplicata* (LISCHKE, 1872 in 1868-73)

Ara-uzumaki (= Uzumaki-umi-kohaku)

- Type locality: 'Bucht von Jedo und zwar von Jokohama bis hinaus zur Insel Eno-Sima' (Tōkyō bay, specifically from Yokohama to Enoshima).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5.
- Habitat: intertidal to 20 m., fine sand.
- Original genus: *Cyclostrema*.

G1013 *P. (P.) cingulifera* (A. ADAMS, 1850-e)

(= *Cyclostrema modesta* GOULD, 1859; *C. dunkeri* TRYON, 1881; *cinglifera* *auct.*)  
Uzumaki-gai (= Kazu-uzumaki)

- Type locality: Dumaguete, Cebu, Philippines; 4 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Cyclostrema*.

G1014 *P. (P.) tornata* (A. ADAMS, 1864-e)

Hime-uzumaki

- Type locality: none designated
- Distribution: Kii peninsula and southwards, P5, EC5; Korea.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Cyclostrema*.

G1015 *P. (P.) teramachii* **HABE, 1958-f**

Watazoko-uzumaki

- Type locality: Tosa bay, southern Shikoku.



- Distribution: Enshū-nada (off Aichi prefecture), southern Shikoku (off Kōchi prefecture).
- Habitat: 80-150 m., fine sand.

G1016 *P. (P.) choshiensis* **HABE, 1961-c**

(= *Daronia yokoyamai* ŌYAMA, 1973)

Chōshi-uzumaki

- Type locality: off Chōshi (Chiba prefecture, central Honshū), 50 m.
- Distribution: Bōsō peninsula, Sagami bay, Enshū-nada, Kyūshū (off Tomioka, Amakusa island).
- Habitat: 50-100 m., sand.

G1017 *P. (P.) biporcata* (**A. ADAMS, 1863-c**)

Kuruma-uzumaki

- Type locality: 'Seto-Uchi; Akashi' (Akashi, Hyōgo prefecture, Seto inland sea).
- Distribution: Seto inland sea (Akashi; Takehara city, Hiroshima prefecture)
- Original genus: *Cyclostrema*.

G1018 *P. (P.) laevis* (**KIENER, 1844**)

- Type locality: Port Lincoln, South Australia.
- Distribution: 'Pacific coast' (KURODA & HABE, 1952-a); Australia.
- Original genus: *Cyclostrema*.

G1019 *P. sulcata* (**A. ADAMS, 1850-e**)

- Type locality: Tambay, Negros, Philippines; 6 fms., coarse sand.
- Distribution: Moji (Fukuoka prefecture, western Seto inland sea), Tsushima (western Japan Sea); Philippines.
- Original genus: *Cyclostrema*.

Subgenus *Soyorota* **HABE, 1961-c**

Type species: *Pygmaerota (Soyorota) soyoe* HABE, 1961 (mt.)

G1020 *P. (S.) soyoe* **HABE, 1961-c**

Sōyō-uzumaki-gai

- Type locality: 'Sōyō-Marū' sta. 365, off Hamashima, Mie prefecture (central Honshū); 93 m., mud.
- Distribution: Suruga bay, Kumano-nada (off eastern Kii peninsula).

Family **STENOTHYRIDAE FISCHER, 1885 in 1880-87**

(Refs. Annandale, 1921; Kuroda, 1962; Kosuge, 1969; Davis *et al.*, 1986; Kurozumi, 1996; Hosaka & Fukuda, 1996)

Genus *Stenothyra* **BENSON, 1856**

Type species: *Nematura deltae* BENSON, 1836 (o. d.) (= *Nematura* BENSON, 1836 non FISCHER, 1812 (Aves); *Cochliopopsis* MORI, 1938; *Incolaestuarium* KURODA, 1962)

G1021 *S. japonica* **KURODA, 1962**

(= *S. glabra* A. ADAMS *sensu* HABE, 1961, 1973-d

(*pars*); HABE & KOSUGE, 1967 (*pars*); *S. recondida* LINDHOLM *sensu* OKUTANI & HABE, 1975 (*pars*); HASEGAWA, 1979)

Mizu-goma-tsubo

- Type locality: 'Sasebo, Nagasaki Pref.' (western Kyūshū).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards (KURODA, 1962, P9-P5), Japan sea (Niigata prefecture and southwards, J3-J2).
- Habitat: in brackish or fresh water in small canals near large estuaries; on mud.

G1022 *S. basiangulata* (**MORI, 1938**)

(= *S. sp. sensu* MIYAJI, 1938; *S. glabra* A. ADAMS *sensu* HABE, 1965-d, 1973-d (*pars*); HABE & KOSUGE, 1967 (*pars*); MINATO in OKUTANI (Ed.), 1986 (*pars*))

Okinawa-mizu-goma-tsubo

- Type locality: 'Cave No. 3 (Muikagā), Miyako-zima' (Miyako islands, Okinawa prefecture).
- Distribution: Okinawa and Miyako islands, ECP2, P2 (DAVIS & YAMAGUCHI, 1969; FUKUDA, 1996).
- Habitat: brackish water in salt marshes; on mud.
- Original genus: *Cochliopopsis*.

G1023 *S. edogawensis* (**YOKOYAMA, 1927-b**)

(= *S. (Incolaestuarium) edogawensis miyadaii* KURODA, 1962; *S. (I.) edogawensis tanabensis* KURODA, 1962)

Umi-goma-tsubo (= Edo-gawa-mizu-goma-tsubo; Miyaji-umi-goma-tsubo; Mijin-umi-goma-tsubo)

- Type locality: 'Ichikawa Shell Bed, the fossil of Pleistocene' (near Edo river, Chiba prefecture, central Honshū).
- Distribution: Tōkyō bay and southwards, P6-P5, Japan sea (Fukui prefecture and southwards, J2-J1), EC5.
- Habitat: Innermost part of large bays; on tidal mud flats (FUKUDA, 1994-c).
- Original genus: *Rissoa (Amphithalamus)*.

G1024 *S. hokkaidonis* **KURODA, 1962**

(= *S. japonica karafōnis* KURODA, 1962; *S. glabra* A. ADAMS *sensu* HABE, 1961, 1973-d (*pars*); HABE & KOSUGE, 1967 (*pars*); *S. recondida* LINDHOLM *sensu* OKUTANI & HABE, 1975 (*pars*); FUKUDA, 1996)

Ezo-mizu-goma-tsubo (= Karafuto-mizu-goma-tsubo)

- Type locality: 'Chobushi-numa, a swamp on the SE coast of Hokkaido, near the mouth of Tokachi-gawa, Toyokoro, Teshio' (Hokkaidō).
- Distribution: Hokkaidō and northwards, P10, OP, J5-J6.
- Habitat: brackish water in lagoons; on mud.

Superfamily **STROMBOIDEA RAFINESQUE, 1815**

Family **STROMBIDAE RAFINESQUE, 1815**

(Refs.: Abbott, 1960)

□ Genus *Tibia* **RÖDING, 1798**

Type species: *Strombus fusus* LINNAEUS, 1767 (s. d.)

DALL, 1906)

(= *Rostellaria* LAMARCK, 1799)

G1025 *T. fusus* (LINNAEUS, 1767)

(= *T. indiamarum* RÖDING, 1798; *Rostellaria rectirostris* LAMARCK, 1822; *R. sinensis* PERRY, 1811; *Strombus unicornis* DILLWYN, 1817)

Hashinaga-sodegai

- Type locality: 'in *O. Americano*' (erroneous).
- Distribution: Okinawa islands (Cape Zampa) and southwards; Taiwan, southern China, Indo-western Pacific.
- Habitat: 30-100 m., sand.
- Original genus: *Strombus*.

G1026 *T. powisii* (PETIT de la SAUSSAYE, 1840)

(= *T. abyssicola* SCHEPMAN, 1908 in 1908-13)

Yamabito-bora

- Type locality: 'côtes de la Chine' (coast of China).
- Distribution: Kii peninsula and southwards, western Kyūshū, P5, EC5, ECP4-ECP2, P2; Philippines, Australia, western Pacific.
- Habitat: 100-200 m., sand.
- Original genus: *Rostellaria*.

G1027 *T. martinii* (MARRAT, 1877)

Watanabe-bora (= Watanabe-sodegai)

- Type locality: 'Philippines'.
- Distribution: southern Shikoku, off southwestern Kyūshū, ECP4-ECP2, P2; western Pacific.
- Habitat: 100-250 m., sand.
- Original genus: *Rostellaria*.

□ Genus *Terebellum* RÖDING, 1798

Type species: *Conus terebellum* LINNAEUS, 1758 (by tautonymy)

(Refs.: Jung & Abbott, 1967)

Subgenus *Terebellum s. str.*

G1028 *T. (T.) terebellum terebellum* (LINNAEUS, 1758)

(= *T. punctatum* CHEMNITZ, 1788 non-binominal; *T. nebulosum*, *lineatum*, *punctulorum*, all RÖDING, 1798; *T. terebra sensu* BOSC, 1801; *T. variegatum* LINK, 1807; *T. album* LINK, 1807; *T. sabulatum (sic) sensu* LAMARCK, 1810; *T. subulatum* LAMARCK, 1811; *T. spirale* PERRY, 1811)

Tombo-gai

- Type locality: 'in Asia'.
- Distribution: Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; Philippines, Australia, Red Sea.
- Habitat: subtidal to 20 m., sand.
- Original genus: *Conus* (LINNAEUS, 1758); moved to *Bulla* (1767)

G1029 *T. (T.) terebellum delicatum* KURODA & KAWAMOTO, 1956

Usu-tombo-gai

- Type locality: Hagi, Yamaguchi prefecture (Japan Sea, western Honshū).

- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5.

- Habitat: intertidal to 20 m., sand.

□ Genus *Laevistrombus* ABBOTT, 1960

Type species: *Strombus canarium* LINNAEUS, 1758 (o. d.)

(= *Laevistrombus* KIRA, 1954 *nom. nud.* See BIELER & PETIT, 1996-a: 33)

G1030 *L. canarium canarium* (LINNAEUS, 1758)

(= *Strombus vanikorensis* QUOY & GAIMARD, 1834; *S. taeniatus* QUOY & GAIMARD, 1834; *S. gibbus* ISSEL & TAPPARONE-CANEFRI, 1876)

Sazanami-suishō

- Type locality: 'in *O. Asiae*' (Asian seas).
- Distribution: Amami islands and southwards, ECP3, ECP2, P2; Philippines, tropical western Pacific.
- Habitat: intertidal to 10 m., sand.
- Original genus: *Strombus*.

G1031 *L. canarium turturella* (RÖDING, 1798)

(= *Strombus isabella* LAMARCK, 1822 in 1815-22; *S. canarium isabella sensu* IWAKAWA, 1900-05-05; *Strombus isabella sensu* KURODA, 1928; S. HIRASE, 1934; KURODA, 1941, 1960; KURODA & HABE, 1952-a; KIRA, 1962)

Suishō-gai (= Fuase-sazanami-suishō)

- Type locality: none designated (reference to Chemnitz).
- Distribution: Bōsō peninsula and southwards, Ogasawara islands, ECP4-ECP2, P2; Philippines, tropical western Pacific.
- Habitat: intertidal to 10 m., sand.
- Original genus: *Lambis*.

□ Genus *Tricornis* JOUSSEAUME, 1886

Type species: *Strombus tricornis* HUMPHREY, 1786 (mt.)

(= *Lobatus* IREDALE, 1921 *non* SWAINSON, 1837; *Aliger* THIELE, 1929; *Eustrombus* WENZ, 1940)

G1032 *T. thersites* (SWAINSON, 1823)

(= *Strombus ponderosus* PHILIPPI, 1842; *S. ponderosus sensu* IWAKAWA, 1900-05)

Atsu-sodegai

- Type locality: New Caledonia.
- Distribution: western Ogasawara islands (Iōjima FUKUDA, 1993), Amami islands, ECP4-ECP2; Polynesia, Australia (Queensland), western Pacific.
- Habitat: subtidal, sand.
- Original genus: *Strombus*.

G1033 *T. latissimus* (LINNAEUS, 1758)

(= *Lambis pictus* RÖDING, 1798; *Strombus alatus* SCHUMACHER, 1817)

Gohōra

- Type locality: 'in *O. Asiae*' (Asian seas); restricted to 'Amboina (Ambon island), Indonesia' (ABBOTT, 1960).
- Distribution: Tanegashima & Yakushima and southwards, ECP4-ECP2; southwestern Pacific.
- Habitat: 4-20 m., coral.
- Original genus: *Strombus*.

G1034 *T. sinuatus* (LIGHTFOOT, 1786)

(= *Lambis lobatus* RÖDING, 1798; *Strombus palmatus* G. FISCHER, 1807; *S. laciniatus* DILLWYN, 1817; *S. cristatus* LAMARCK, 1822 in 1815-22)

Hime-gohōra

- Type locality: none originally given; designated 'Cebu City, Cebu island, Philippines' (ABBOTT, 1960).
- Distribution: Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; Philippines, western Pacific.
- Habitat: subtidal to 20 m., sand among rocks or coral.
- Original genus: *Strombus*.

□ Genus *Canarium* SCHUMACHER, 1817

Type species: *Canarium ustulatum* SCHUMACHER, 1817 (mt.; = *Strombus urceus* LINNAEUS, 1758)  
(= *Strombidea* SWAINSON, 1840; *Östrombus* SACCO, 1893)

G1035 *C. urceum* (LINNAEUS, 1758)

(= *Strombus reticulatus* LINK, 1807; *S. ustulatum* SCHUMACHER, 1817; *S. incisus* WOOD, 1828 in 1818-28; *S. anatellus* DUCLOS in CHENU, 1844; *S. ustulatus sensu* KURODA, 1928; S. HIRASE, 1934; KURODA & HABE, 1952-a; KIRA, 1962; *S. ustulatus laevis* DODGE, 1946)

Ohaguro-gai (= Kuchiguro-mukashi-tamoto)

- Type locality: '*O. Asiae*' (Asian seas).
- Distribution: Suruga bay and southwards, P6-P5, ECP4-ECP2, P2; tropical western Pacific.
- Habitat: intertidal to 37 m., rubble.
- Original genus: *Strombus*.

G1036 *C. labiatum* (RÖDING, 1798)

(= *Strombus plicatus* LAMARCK, 1816 non RÖDING, 1798; *S. labiatus olydius* DUCLOS in CHENU, 1844; *S. corrugatus* ADAMS & REEVE, 1850 in 1848-50; *S. dentatus* LINNE *sensu* IWAKAWA, 1900-05; *C. otium* IREDALE, 1931; *S. dentatus sensu* KURODA & HABE, 1952-a; *C. dentatum sensu* KIRA, 1962)

Futo-suji-mukashi-tamoto (= Hidatori-gai)

- Type locality: none originally given; designated 'Amboina, Indonesia' (ABBOTT, 1960).
- Distribution: Kii peninsula and southwards, southern Kyūshū, P5, ECP4-ECP2, P2; Philippines, western Pacific.
- Habitat: intertidal to 10 m., rubble.
- Original genus: *Lambis*.

G1037 *C. microureum* KIRA, 1959-a

Yasagata-mukashi-tamoto

- Type locality: central Honshū, low water to 5 fms.
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, EC5, ECP4-ECP2, P2; Philippines, Samoa, western Pacific.
- Habitat: intertidal, coarse sand and stones and coral.

G1038 *C. mutabilis* (SWAINSON, 1821)

(= *Strombus flammeus* LINK, 1807; *S. floridus* LAMARCK, 1818; *S. epimellus* DUCLOS in CHENU, 1844; *S. flosculosus* MÖRCH, 1852; *S. floridus sensu* IWAKAWA, 1900-05; *S. urceus sensu* KURODA, 1928; S. HIRASE, 1934; KURODA & HABE, 1952-a; KIRA, 1962) Mukashi-tamoto

- Type locality: 'East Indies', restricted to 'Shirahama, Wakayama Pref., Honshu Id., Japan' (ABBOTT, 1960).
- Distribution: Bōsō peninsula and southwards, Ogasawara islands, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2; tropical Indo-Pacific.
- Habitat: intertidal on sand among rocks, coral.
- Original genus: *Strombus*.

G1039 *C. erythrinum* (DILLWYN, 1817)

(= *Strombus rubicundus* PERRY, 1811 *nom. nud.*; *S. elegans* SOWERBY II, 1842; *S. radians* DUCLOS in CHENU, 1844; *S. ruppelli* REEVE, 1850; *S. elegans sensu* KURODA, 1941, 1960)

Chirimen-mukashi-tamoto

- Type locality: none originally given; designated 'Red Sea' after Chemnitz (ABBOTT, 1960).
- Distribution: Kōchi prefecture and southwards, western Kyūshū, P5, EC5, ECP4-ECP2; Indo-Pacific, Red Sea.
- Habitat: intertidal to 40 m., sand.
- Original genus: *Strombus*.

G1040 *C. fragilis* (RÖDING, 1798)

(= *Strombus bulbulus* SOWERBY, 1842)

Makura-sodegai

- Type locality: 'East Indies', restricted to 'Zamboanga, Mindanao Id., Philippines' (ABBOTT, 1960).
- Distribution: Amami Ōshima and southwards, ECP3-ECP2, P2; Philippines, tropical western Pacific, central Pacific to Hawaii.
- Habitat: 5-50 m., sand.
- Original genus: *Lambis*.

G1041 *C. terebellatum* (SOWERBY II, 1842 in 1842-87)

(= *Strombus terebellatus afrobellatus* ABBOTT, 1960) Tombo-sodegai

- Type locality: none originally given; designated 'Viti Levu Island, Fiji' (ABBOTT, 1960).
- Distribution: Amami Ōshima and southwards, ECP3-ECP2, P2; tropical western Pacific.
- Habitat: 5-20 m., sand.

- Original genus: *Strombus*.

G1042 *C. dentatum* (LINNAEUS, 1758)

(= *Strombus tridentatum* GMELIN, 1791; *S. samar* DILLWYN, 1817; *S. samarensis* REEVE, 1851)

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, southern Kyūshū, P5, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific to Hawaii and Tuamotos.
- Habitat: 5-90 m., on coral sand.
- Original genus: *Strombus*.

□ Genus *Dolomena* IREDALE, 1931

Type species: *Strombus plicatus pulchellus* REEVE, 1851 (mt.)

G1043 *D. plicatum* (RÖDING, 1798)

(= *Strombus pulchellus* REEVE, 1851; *S. malekulensis* ABRARD, 1946)

Ohaguro-shidoro

- Type locality: none originally given; designated 'Red Sea' (ABBOTT, 1960).
- Distribution: Enshū-nada and southwards, P5, ECP4-ECP2, P2; Micronesia, Melanesia.
- Habitat: intertidal to 100 m., sand.
- Original genus: *Lambis*.

G1044 *D. dilatatum* (SWAINSON, 1821)

(= *Strombus orosminus* DUCLOS in CHENU, 1844; *D. margarinatus dilatatus sensu* HIGO, 1973)

Kanetsuke-fudoro

- Type locality: none originally given; designated 'Upala Cay, Queensland, Australia' (ABBOTT, 1960).
- Distribution: southern Shikoku and southwards, P5, EC5, ECP4-ECP2, P2; southwestern Pacific, Australia.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Strombus*.

G1045 *D. marginata robusta* (SOWERBY II, 1874)

(= *Strombus marginatum septimum* DUCLOS in CHENU, 1844; *Strombus dilatatus sensu* IWAKAWA, 1900-05; *S. succinctus sensu* KURODA & HABE, 1952-a;

*Labiostrombus succinctus sensu* KIRA, 1959)

Fudoro (= Maru-sodegai; Yoroi-no-sode)

- Type locality: Hong Kong.
- Distribution: Bōsō peninsula and southwards, northern Yamaguchi prefecture, P7-P5, J1, EC5, East China Sea; Indo-western Pacific.
- Habitat: intertidal to 40 m., sandy mud.
- Original genus: *Strombus*.

Notes: the holotype of this species is apparently lost (note in BMNH).

G1046 *D. variabilis* (SWAINSON, 1820)

(= *Strombus lituratus* MENKE, 1829)

Montsuki-sodegai (= Hokuro-sodegai; Kanoko-sode)

- Type locality: 'South Seas' restricted to 'Cebu Island, Philippines' (ABBOTT, 1960).

- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Arafura Sea, western Pacific.

- Habitat: intertidal to 40 m., sandy mud.

- Original genus: *Strombus*.

G1047 *D. minima* (LINNAEUS, 1771)

(= *Strombus troglodytes* LAMARCK, 1822 in 1815-22) Ko-sode-gai

- Type locality: 'in India orientali', restricted to 'Cebu City, Cebu Island, Philippines' (ABBOTT, 1960).

- Distribution: Kii peninsula and southwards, southern Kyūshū, P5, ECP4-ECP2; tropical western Pacific, Fiji.

- Habitat: intertidal to 20 m., coarse sand and stones and mud.

- Original genus: *Strombus*.

G1048 *D. labiosus* (WOOD, 1828 in 1818-28)

(= *Strombus siboldi* SOWERBY *sensu* KURODA, 1960) Kobushi-shidoro

- Type locality: none originally given; designated 'Bataan, Luzon Id., Philippines' (ABBOTT, 1960).

- Distribution: Okinawa (KURODA, 1960); Nakagusuku bay (Okinawa, HIRATA, 1994), P2; Indo-Pacific.

- Habitat: subtidal to 50 m., sand.

- Original genus: *Strombus*.

□ Genus *Labiostrombus* OOSTINGH, 1925

Type species: *Strombus epidromis* LINNAEUS, 1758 (o. d.)

(= *Gallinula* H. & A. ADAMS, 1868 *non* BRISSON, 1760)

G1049 *L. epidromis* (LINNAEUS, 1758)

(= *Strombella expansa* 'MARTINI' *sensu* TRYON, 1885; *epidromus auct.*)

Hokake-sodegai (= Maru-shidoro; Hira-sodegai)

- Type locality: 'in O. Asiae' (Asian seas), restricted to 'Amboina, Indonesia' (ABBOTT, 1960).

- Distribution: Amami islands and southwards, ECP3-ECP2; tropical western Pacific.

- Habitat: intertidal to 20 m., sandy mud.

- Original genus: *Strombus*.

□ Genus *Doxander* IREDALE, 1931

Type species: *Strombus vittatus* LINNAEUS, 1758 (o. d.)

G1050 *D. vittatus vittatus* (LINNAEUS, 1758)

(= *Strombus sulcatus* HOLTEN, 1802; *S. australis* SCHRÖTER, 1805; *S. turritus* LAMARCK, 1822 in 1815-22 *non* LINK, 1807)

Naga-takenoko-sodegai

- Type locality: 'in O. Asiae' (Asian seas), restricted to 'Amboina, Indonesia' (ABBOTT, 1960).

- Distribution: Okinawa islands and southwards, ECP2, P2;

New Guinea, Fiji, northeastern Australia.

- Habitat: subtidal to 30 m., sandy mud.
- Original genus: *Strombus*.

G1051 *D. vittatus japonicus* (REEVE, 1851 in 1843-65)  
Shidoro

- Type locality: 'Japan', restricted to 'Nagasaki, Kyushu Island' (ABBOTT, 1960).
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2; Korea.
- Habitat: subtidal to 50 m., sandy mud.
- Original genus: *Strombus*.

□ Genus *Lentigo* JOUSSEAUME, 1886

Type species: *Strombus lentiginosus* LINNAEUS, 1758 (mt.)

G1052 *L. lentiginosus* (LINNAEUS, 1758)

(= *Lambis rana* RÖDING, 1798)

Ibo-sodegai (= Oni-no-sode)

- Type locality: 'in *O. Asiae*' (Asian seas), restricted to 'Amboina, Indonesia' (ABBOTT, 1960).
- Distribution: Tanegashima & Yakushima and southwards, Ogasawara islands, ECP4-ECP2, P2; Philippines, tropical Pacific.
- Habitat: intertidal to 5 m., coral sand.
- Original genus: *Strombus*.

G1053 *L. pipus* (RÖDING, 1798)

(= *Strombus papilio* 'CHEMNITZ' sensu DILLWYN, 1817; *S. exutus* SWAINSON, 1822; *S. adustus* SWAINSON sensu REEVE, 1851; *S. papilio* sensu IWAKAWA, 1919; KURODA, 1928, 1941, 1960)  
Ohaguro-ibo-sode (= Kuchiguro-ibo-sode)

- Type locality: none originally given; designated 'Jolo Id., southern Philippines' (ABBOTT, 1960).
- Distribution: Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; Philippines, tropical western Pacific, east Africa.
- Habitat: 10-80 m., coral sand.
- Original genus: *Lambis*.

□ Genus *Euprotomus* GILL, 1870

Type species: *Strombus aurisdianae* LINNAEUS, 1758 (mt.)

(= *Mondactylus auct. non* LACEPEDE, 1800)

G1054 *E. aurisdianae aurisdianae* (LINNAEUS, 1758)

(= *Strombus stiva* RÖDING, 1798; *S. buris* RÖDING, 1798; *S. lamarckii* GRAY, 1842; *S. striatogranosus* MARTENS in MOEBIUS, 1880; *S. aurisdianae chrysostoma* KURODA, 1941)

Maino-sode (= Yayoi-sodegai)

- Type locality: 'in *O. Asiae*' (Asian seas), restricted to 'Amboina, Indonesia' (ABBOTT, 1960).

- Distribution: southern Shikoku and southwards, southern Kyūshū, P5, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific.

- Habitat: intertidal on sand among rocks and on coral reefs.

- Original genus: *Strombus*.

G1055 *E. aurisdianae aratrum* (RÖDING, 1798)

(= *Strombus adusta* DILLWYN, 1817; *S. melanostomus* SWAINSON, 1822)

Kurifu-maino-sode

- Type locality: none originally given; designated 'Bowen, Queensland, Australia' (ABBOTT, 1960).
- Distribution: Okinawa islands and southwards, ECP2, P2; southern Australia, Indo-western Pacific, Australia.
- Habitat: intertidal to 20 m., on sand among rocks and on coral reefs.
- Original genus: *Lambis*.

G1056 *E. bulla* (RÖDING, 1798)

(= *Strombus laevis* PERRY, 1811 non GMELIN, 1791; *S. guttatus* KIENER, 1843; *S. aurisdianae laevis sensu* KURODA, 1928)

Beni-sode (= Shin-ra)

- Type locality: none originally given; designated 'Cebu City, Cebu Island, Philippines' (ABBOTT, 1960).
- Distribution: southern Shikoku and southwards, southern Kyūshū, P5, ECP4-ECP2, P2; Philippines, tropical Pacific.
- Habitat: subtidal to 20 m., sand at base of coral reefs.
- Original genus: *Lambis*.

G1057 *E. vomer vomer* (RÖDING, 1798)

(= *Strombus acutus* PERRY, 1811; *S. pacificus* SWAINSON, 1821; *S. zealandiae* GRAY in KING, 1826; *S. chemnitzii* PFEIFFER, 1840; *S. novaezealandiae* REEVE, 1842; *S. aratrum sensu* KURODA, 1928; *S. hirasei*, 1934; *S. donnellyi* IREDALE, 1931; *S. hirasei* KURODA, 1942)

Ura-suji-maino-sode

- Type locality: none originally given; designated 'Noumea, New Caledonia' (ABBOTT, 1960).
- Distribution: Kōchi prefecture (southern Shikoku) and southwards, Tanegashima & Yakushima, P5, ECP4-ECP2; tropical Pacific.
- Habitat: intertidal to 20 m., rocks or gravel.
- Original genus: *Lambis*.

□ Genus *Conomurex* FISCHER, 1884

Type species: *Strombus luhuanus* LINNAEUS, 1758 (mt.)

G1058 *C. luhuanus* (LINNAEUS, 1758)

(= *Strombus luguanus* (*sic*) sensu HERBST, 1788; *S. pusillus* ANTON, 1839)

Magaki-gai

- Type locality: 'in *O. Asiae*' (Asian seas), restricted to

Luhu island, near Amboina and Ceram, Indonesia' after Rumphius (ABBOTT, 1960).

• Distribution: Bōsō peninsula and southwards, Ogasawara islands, P7-P5, Japan Sea (Noto peninsula, J2-J1), ECP4-ECP2, P2; western Pacific, eastern Australia.

• Habitat: intertidal to 20 m., on sand; in tidepools, on coral reefs.

• Original genus: *Strombus*.

□ Genus *Gibberulus* JOUSSEAUME, 1888

Type species: *Strombus gibberulus* LINNAEUS, 1758 (o. d.)

G1059 *G. gibberulus gibbosus* (RÖDING, 1798)

(= *Strombus gibberulus* LINNAEUS *sensu* IWAKAWA, 1900-05; SUGITANI, 1926; KURODA, 1928, 1941, 1960; KIRA, 1962; WILSON, 1993)

Neji-magaki

• Type locality: none originally given; designated 'Cebu City, Cebu Island, Philippines' (ABBOTT, 1960).

• Distribution: western Japan Sea (northern Yamaguchi prefecture FUJIWARA, 1968, J1), Amami islands and southwards, ECP3-ECP2; tropical Pacific.

• Habitat: subtidal to 10 m., coarse sand and stones.

• Original genus: *Lambis*.

□ Genus *Lambis* RÖDING, 1798

Type species: *Strombus lambis* LINNAEUS, 1758 (by tautonymy)

(= *Pterocera* LAMARCK, 1799; *Pteroceras* LINK, 1807 *err. pro -cera*; *Pteroceres* MONTFORT, 1810 *err. pro -cera*; *Digitator* FABRICIUS, 1823 *nom. nud.*; *Pterocerus* BROGNIART, 1829 *err. pro -cera*; *Heptadactylus* MÖRCH, 1852)

(Refs.: Abbott, 1961)

G1060 *L. lambis* (LINNAEUS, 1758)

(= *L. lobata* RÖDING, 1798; *L. lamboides, cerea, hermaphrodita, laciniata, maculata* all RÖDING, 1798; *Strombus camelus* GRAY in KING, 1826)

Kumo-gai

• Type locality: 'in *O. Asiae*' (Asian seas), restricted to 'Amboina, Indonesia' (ABBOTT, 1961).

• Distribution: Kii peninsula and southwards, P5, southern Kyūshū, Ogasawara islands, ECP4-ECP2; Indo-western Pacific.

• Habitat: intertidal to 20 m., on sand among rocks and coral.

• Original genus: *Strombus*.

G1061 *L. truncata sebae* (KIENER, 1843 in 1834-80)

(= *L. sowerbyi* MÖRCH, 1872; *L. truncata sensu* KURODA, 1928, S. HIRASE, 1934, KURODA & HABE, 1952-a, HABE & KOSUGE, 1967; WILSON, 1993)

Rakuda-gai

• Type locality: 'l'océan des Moluques (Moluccas, Indonesia) et la mer Rouge' (Red Sea)' restricted to 'Red Sea' (ABBOTT, 1961).

• Distribution: Ogasawara islands and westwards, P11, ECP4-ECP2, P2; Philippines, tropical central Pacific, Red Sea, eastern Arabia.

• Habitat: subtidal to 30 m., among dead coral.

• Original genus: *Rostellaria*.

G1062 *L. crocata* (LINK, 1807 in 1806-08)

(= *Strombus aculeatus* PERRY, 1811; *Protocera aurantia* LAMARCK, 1822 in 1815-22; *Pteroceras aurantiacum* SOWERBY I, 1825)

Sasori-gai

• Type locality: 'East Indies', restricted to 'Amboina, Indonesia' (ABBOTT, 1961).

• Distribution: Kii peninsula and southwards, Tanegashima & Yakushima, P5, ECP4-ECP2, P2; Philippines, tropical Pacific.

• Habitat: intertidal to 20 m., on coral reefs.

• Original genus: *Pteroceras*.

□ Genus *Millepes* MÖRCH, 1852

Type species: *Strombus millipeda* LINNAEUS, 1758 (s. d.)

G1063 *M. millipeda* (LINNAEUS, 1758)

Mukade-sodegai (= Mukade-gai)

• Type locality: 'in *O. Asiae*' (Asian seas); restricted to 'Olango island, on the east side of Cebu Island, Philippines' (ABBOTT, 1961).

• Distribution: Miyako islands and southwards, P2; Philippines, tropical western Pacific.

• Habitat: intertidal to 10 m., rubble.

• Original genus: *Strombus*.

G1064 *M. scorpius* (LINNAEUS, 1758)

(= *Pterocera nodosa* LAMARCK, 1816; *L. scorpio* (*sic*) *sensu* S. HIRASE, 1934; HABE & KOSUGE, 1967)

Fushide-sasori-gai

• Type locality: 'in *O. Asiatico*' (Asian seas); restricted to 'Mactan island, opposite Cebu City, Cebu Island, Philippines' (ABBOTT, 1961).

• Distribution: Kii peninsula and southwards, Tanegashima & Yakushima, P5, ECP4-ECP2; tropical western Pacific, Samoa.

• Habitat: intertidal to 50 m., on coral reefs.

• Original genus: *Strombus*.

□ Genus *Harpago* MÖRCH, 1852

Type species: *Lambis harpago* RÖDING, 1798 (by indirect tautonymy; = *Strombus chiragra* LINNAEUS, 1758)

(= *Pterocera* ANTON, 1839 *non* LAMARCK, 1789)

G1065 *H. chiragra* (LINNAEUS, 1758)

(= *Lambis harpago* RÖDING, 1798; *L. undulata* RÖDING, 1798; *L. rugosum* SOWERBY, 1842; *L. kochii*

FREYER, 1855)

Suiji-gai (= Shiwa-kuchi-gai)

- Type locality: 'ad Bandam Asiae' (Banda, Indonesia).
- Distribution: Kii peninsula and southwards, southern Kyūshū, Ogasawara islands, P5, ECP4-ECP2, P2; Philippines, Indo-western Pacific, Polynesia.
- Habitat: intertidal to 20 m., sand pockets among rocks and in coral reefs.
- Original genus: *Strombus*.

Superfamily **VANIKOROIDEA GRAY, 1840**

(= HIPPONICACEA TROSCHER, 1861)

Family **HIPPONICIDAE TROSCHER, 1861**

(= CHEILEIDAE IREDALE & MCMICHAEL, 1962)

□ Genus *Hipponix* DEFANCE, 1819

Type species: *Patella cornucopia* LAMARCK, 1803 (s. d. GRAY, 1847)

(= *Cochleolepas* MARTYN, 1784 (invalid: ICZN op. 456); *Amalthea* SCHUMACHER, 1817 non RAFINESQUE, 1815; *Sabia* GRAY, 1839 non REEVE, 1842)

G1066 *H. acuta* QUOY & GAIMARD, 1835 in 1832-35

Atsu-kiku-suzume

- Type locality: 'au havre Carteret de la Nouvelle-Irlande' (Kilinaia (Carteret) island, off Bougainville, Solomon islands).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; southeast Asia.
- Habitat: intertidal, adhering to *Turbo marmoratus*, *T. argyrostomus* etc.

G1067 *H. conica* (SCHUMACHER, 1817)

(= *H. australis* QUOY & GAIMARD, 1834)

Kiku-suzume

- Type locality: none designated.
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), Ogasawara islands; Korea, Indo-western Pacific.
- Habitat: adhering to abalones, *Turbo cornutus* etc.
- Original genus: *Amalthea*.

G1068 *H. prinocidaricola* (HABE & KANAZAWA, 1991)

Uni-yadori-kiku-suzume

- Type locality: Panglao island, Philippines.
- Distribution: Ogasawara islands (Chichijima FUKUDA, 1995); Philippines.
- Habitat: on spines of urchins (*Prinocidaris baculosa*, *Phyllacanthus dubius* etc) on coral reefs.
- Original genus: *Sabia*.

□ Genus *Malluvium* MELVILL, 1906

Type species: *Capulus lissus* E. A. SMITH, 1894 (o. d.)

G1069 *M. otohimeae* (HABE, 1946-b)

(= *Amalthea lissa* PEILE, 1935 non E. A. SMITH, 1894)

Otohime-suzume

- Type locality: off Minabe, Wakayama prefecture, central Honshū.
- Distribution: Sagami bay and southwards, P6-P5, EC5, East China Sea.
- Habitat: subtidal to 200 m., adhering to dead shells.
- Original genus: *Amalthea* (*Malluvium*).

□ Genus *Antisabia* IREDALE, 1937-a

Type species: *Hipponix foliacea* QUOY & GAIMARD, 1835 (o. d.)

G1070 *A. foliacea* (QUOY & GAIMARD, 1835 in 1832-35)

(= *Capulus radiatus* G. O. SARS, 1878; *Hipponix antiquatus* LINNAEUS sensu IWAKAWA, 1919) Kawa-chidori

- Type locality: 'l'île de Guam dans l'Archipel des Mariannes' (Guam, Marianas islands).
- Distribution: Bōsō peninsula and southwards, Ogasawara islands, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2; Indo-western Pacific.
- Habitat: intertidal, on rocks.
- Original genus: *Hipponix*.

□ Genus *Pilosabia* IREDALE, 1929

Type species: *Pileopsis pilosa* DESHAYES, 1832 (o. d.; = *Patella trigona* GMELIN, 1791)

G1071 *P. trigona* (GMELIN, 1791)

(= *Pileopsis pilosa* DESHAYES, 1832; *Hipponix barbatus* SOWERBY, 1835)

Suzume-gai

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2; Korea, Indo-western Pacific.
- Habitat: intertidal to 10 m., on rocks and reefs.
- Original genus: *Patella*.

□ Genus *Cheilea* MODEER, 1793

Type species: *Patella equestris* LINNAEUS, 1758 (s. d. WOODRING, 1928)

(= *Mitrularia* SCHUMACHER, 1817; *Lithedaphus* OWEN, 1842; *Calyptra sensu* H. & A. ADAMS, 1854)

G1072 *C. cepacea cepacea* (BRODERIP, 1834)

(= *Patella equestris* LINNAEUS auct. non LINNAEUS, 1758; *Calyptraea cornea* BRODERIP, 1834; *Calyptraea planulata* C. B. ADAMS, 1852; *Calyptraea alveolata* REEVE, 1858 (pars.); *Mitrularia equestris sensu* IWAKAWA, 1900-05, 1919; *Cheila equestris sensu* KURODA, 1928; S. HIRASE, 1934; KURODA & HABE, 1952-a; HABE, 1954; HABE & KOSUGE, 1967; CERNOHORSKY, 1972; OKUTANI, 1975, 1986; WILSON, 1993)

Fūrin-chidori

- Type locality: Galapagos islands.
- Distribution: Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: subtidal to 10 m., rocks.
- Original genus: *Calyptraea*.

G1073 *C. cepacea tortilis* (REEVE, 1858 in 1843-65)

Shiwa-fūrin-chidori

- Type locality: 'Galapagos Islands' (probably erroneous).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines.
- Habitat: subtidal to 10 m., rocks.
- Original genus: *Calyptraea*.

G1074 *C. scutula* (REEVE, 1858 in 1843-65)

(= *Calyptraea alveolata* REEVE, 1858 in 1843-65 (*pars*); *C. stella* REEVE, 1858 in 1843-65)

Hoshigata-fūrin-chidori (= Hachi-no-su-fūrin-chidori)

- Type locality: 'Philippine Islands'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: subtidal to 10 m., rocks.
- Original genus: *Calyptraea*.

G1075 *C. bulla* (REEVE, 1858 in 1843-65)

Toami-fūrin-chidori

- Type locality: 'Island of Zebu (Cebu), Philippines (attached to the under surface of the ledge of a hard sandstone rock)'.
- Distribution: western Japan Sea (northern Yamaguchi prefecture IKEDA & TADA, 1963), Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: subtidal to 10 m., rocks.
- Original genus: *Calyptraea*.

G1076 *C. cicatricosa* (REEVE, 1858 in 1843-65)

Chirimen-fūrin-chidori

- Type locality: 'Catanauan, Province of Tayabas, Island of Luzon, Philippines'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: subtidal to 10 m., rocks.
- Original genus: *Calyptraea*.

G1077 *C. hipponiciformis* (REEVE, 1858 in 1843-65)

Kinume-fūrin-chidori

- Type locality: 'Island of Bohol, Philippine Islands'.
- Distribution: southern Shikoku and southwards, P5, Japan Sea (Wakasa bay, J2-J1), EC5, ECP4-ECP2; Indo-Pacific.
- Habitat: subtidal to 20 m., rocks.
- Original genus: *Calyptraea*.

G1078 *C. layardi* (REEVE, 1858 in 1843-65)

Kabuto-fūrin-chidori

- Type locality: 'Ceylon' (Sri Lanka).

- Distribution: southern Shikoku and southwards, P5, ECP4-ECP2; Indo-Pacific.
- Habitat: subtidal to 20 m., rocks.
- Original genus: *Calyptraea*.

G1079 *C. tectumsinensis* (LAMARCK, 1822 in 1815-22)

(= *C. sinensis* REEVE, 1859)

Kasane-fūrin-chidori

- Type locality: 'l'Océan des grandes Indes, des îles de la Sonde' (Sunda islands, Indonesia).
- Distribution: Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; Indo-Pacific.
- Habitat: subtidal to 10 m., rocks.
- Original genus: *Calyptraea*.

G1080 *C. pileopsis* (QUOY & GAIMARD, 1835 in 1832-35)

Suzume-fūrin-chidori

- Type locality: 'habite Tonga-Tabou' (Tongatapu island, Tonga).
- Distribution: southern Shikoku and southwards, P5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: subtidal to 10 m., rocks.
- Original genus: *Calyptraea*.

G1081 *C. stultorum* (REEVE, 1858 in 1843-65)

Zukin-fūrin-chidori

- Type locality: 'Moluccas' (Maluku, Indonesia).
- Distribution: Sagami bay, Japan Sea (off Tsushima island); Indonesia.
- Habitat: 50-100 m.
- Original genus: *Calyptraea*.

Family VANIKORIDAE GRAY, 1840

(= CALEDONIELLIDAE ROSEWATER, 1969)

□ Genus *Vanikoro* QUOY & GAIMARD, 1832

Type species: *Sigaretus cancellatus* LAMARCK, 1822 (= *Merria* GRAY, 1839; *Leucotis* SWAINSON, 1840; *Nioma* GRAY, 1842; *Narica* RÉCLUZ in D'ORBIGNY, 1842)

G1082 *V. helicoidea* (LE GUILLOU, 1842)

(= *Narica lygata* RÉCLUZ, 1844-a; *V. semiplicata* PEASE, 1860; *Merria lyrata* (*sic*) RÉCLUZ *sensu* SUGITANI, 1926)

Maru-shiro-nezumi

- Type locality: 'Amboine' (Ambon island, Indonesia).
- Distribution: Izu peninsula and westwards, Ogasawara islands, P6-P5, EC5, ECP4-ECP2; tropical Pacific.
- Habitat: intertidal to 20 m., rubble.
- Original genus: *Sigaretus*.

G1083 *V. gueriniana* (RÉCLUZ, 1844-a)

(= *Narica distans* RÉCLUZ, 1844-a)

Itokake-shiro-nezumi

- Type locality: 'island of Capul, Philippines; under stones



at low water'.

- Distribution: Ogasawara islands and westwards, P11, Amami islands, ECP4-ECP2; Indo-Pacific.
- Habitat: intertidal to 20 m., rubble.
- Original genus: *Narica*.

G1084 *V. fenestrata* (A. ADAMS, 1863-e)

(= *V. japonica* PILSBRY, 1895)

Yagura-shiro-nezumi

- Type locality: 'O-Sima' (probably Kii-Ōshima, Kii peninsula, central Honshū).
- Distribution: Kii peninsula and southwards, western Kyūshū.
- Habitat: intertidal to 10 m., coarse sand and stones.
- Original genus: *Fossar*.

Notes: see HABE (1978-a: 167).

G1085 *V. cuvieriana* (RÉCLUZ, 1844-a)

(= *Narica rosea* RÉCLUZ, 1844-a)

Beni-itadaki-shiro-nezumi

- Type locality: 'Les Moluques' (Moluccas (Maluku), Indonesia).
- Distribution: Tanegashima & Yakushima and southwards, ECP4-ECP2.
- Habitat: intertidal to 10 m., coarse sand and stones.
- Original genus: *Narica*.

G1086 *V. solida* SOWERBY II, 1865

Tama-shiro-nezumi

- Type locality: none designated.
- Distribution: Okinawa.
- Habitat: subtidal in coarse sand and stones.

G1087 *V. orbignyana* (RÉCLUZ, 1844-a)

- Type locality: 'La Nouvelle Hollande (western Australia), sur les côtes de l'Île Maria'.
- Distribution: 'Pacific coast, 14°-25° N.' (KURODA & HABE, 1952-a); Australia.

G1088 *V. rugata* A. ADAMS, 1854 in H. & A. ADAMS, 1853-58

- Type locality: none designated (Cuming collection).
- Distribution: Okinawa (KURODA, 1960).

G1089 *V. scalarina* GOULD, 1859 in 1859-61

- Type locality: 'Loo Choo' (Okinawa).
- Distribution: Okinawa (KURODA, 1960).

G1090 *V. acuta* (RÉCLUZ, 1844-a)

(= *Narica semiplicata* PEASE, 1861; *V. kanakanarum* PILSBRY, 1921; *V. helicoidea* (LE GUILLOU) *sensu* CERNOHORSKY, 1972 (*pars*))

Temari-shiro-nezumi

- Type locality: Indian Ocean.
- Distribution: Ogasawara islands (Anijima, 6 m., FUKUDA, 1993); Hawaii, Indo-western Pacific.

- Original genus: *Narica*.

□ Genus *Amamiconcha* HABE, 1961-c

Type species: *Amamiconcha sakuraii* HABE, 1961 (mt.)

G1091 *A. sakuraii* HABE, 1961-c

Endō-gai

- Type locality: Kakeroma island (Amami islands).
- Distribution: Amami islands, Okinawa islands.
- Habitat: subtidal to 30 m., fine sand.

□ Genus *Berthais* MELVILL, 1904-b

Type species: *Scala (Constantia) intertexta* MELVILL & STANDEN, 1903 (o. d.)

G1092 *B. egregia* (A. ADAMS, 1863-i)

Hina-tsubo (= Chirimen-itokake)

- Type locality: 'Seto-Uchi (Seto inland sea), 17 fathoms and Yobuko, (Saga prefecture, northern Kyūshū), 10 fathoms'.
- Distribution: Kii peninsula (Tanabe bay), Ōsaka bay (OKAMURA & KOJIMA, 1984), Seto inland sea, western Kyūshū (Tomioka, Amakusa), northern Kyūshū (Imari bay, Saga prefecture; Yobuko).
- Habitat: 10-50 m., sand.
- Original genus: *Onoba*.

□ Genus *Japanonoba* HABE & ANDŌ, 1987

Type species: *Onoba patula* A. ADAMS, 1863 (o. d.) (Refs.: YOSHIZAKI, FUKUDA & MITOKI, 1997)

G1093 *J. patula* (A. ADAMS, 1863-i)

(= *J. itoi* HABE & ANDŌ, 1987)

Nunome-tsubo (= Hoso-nunome-tsubo)

- Type locality: Yobuko (Saga prefecture, northern Kyūshū), 14 fms., mud.
- Distribution: Seto Inland Sea (Hiroshima, Yamaguchi and Ehime prefectures), northern Kyūshū (Saga prefecture).
- Habitat: in sand sediments; depth unknown.
- Original genus: *Onoba*.

□ Genus *Caledoniella* SOUVERBIE, 1869

Type species: *Caledoniella montrouzeri* SOUVERBIE, 1869 (o. d.)

(= *Epistheta* PRESTON, 1912)

G1094 *C. montrouzeri* SOUVERBIE, 1869

Ishikawa-shitadami

- Type locality: Île d'Art, New Caledonia.
- Distribution: Kii peninsula and southwards, southwestern Shikoku (Okinoshima ISHIKAWA, 1989), EC5; New Caledonia.
- Habitat: intertidal to 30 m., coral; parasitic on abdomen of stomatopod crustacean *Gonodactylus chiragra*.

□ Genus *Macromphalus* S. V. WOOD, 1842

Type species: *Macromphalus reticulatus* S. V. WOOD, 1842 (mt.)

(= *Couthouyia* A. ADAMS, 1860-c; *Escharella* COSSMANN, 1888; *Micreschara* COSSMANN, 1888)

G1095 *M. decussata* (A. ADAMS, 1860-c)

- Type locality: off Mishima (Japan Sea), 63 fms.
- Distribution: recorded only from type locality.
- Original genus: *Couthouyia*.

G1096 *M. plicifera* (A. ADAMS, 1863-e)

- Type locality: Yobuko, Saga prefecture, northern Kyūshū.
- Distribution: 'Pacific coast, 33° N.' (KURODA & HABE, 1952-a).
- Original genus: *Couthouyia*.

G1097 *M. reticulata* (A. ADAMS, 1854 in H. & A. ADAMS, 1853-58)

- Type locality: Singapore.
- Distribution: 'Pacific coast, 34°-35° N.' (KURODA & HABE, 1952-a); Singapore.
- Original genus: *Fossar*.

G1098 *M. striatula* A. ADAMS, 1863-e

- Type locality: Yobuko, Saga prefecture, northern Kyūshū; 25 fms.
- Distribution: 'Pacific coast, 34°-35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Couthouyia*.

G1099 *M. okamotoi* (HABE, 1962)

- Naga-endō-gai
- Type locality: Shikano-shima, Fukuoka bay, northern Kyūshū.
  - Distribution: Ise bay, Kii peninsula, Japan Sea (Wakasa bay), Seto inland sea, northwestern to southern Kyūshū.
  - Habitat: 30-100 m., fine sand.
  - Original genus: *Amamiconcha*.

Family HALOCERATIDAE WARÉN & BOUCHET, 1991

□ Genus *Torellia* LOVÉN in JEFFREYS, 1867

Type species: *Torellia vestita* JEFFREYS, 1867 (o. d.) (= *Trachyoma* SEGUENZA, 1879; *Trichoconcha* E. A. SMITH, 1907)

G1100 *T. pacifica* OKUTANI, 1980-b

- Sōyō-hige-maki-gai
- Type locality: east off Izu islands, central Honshū: 34° 10' N., 140° 06.1' E., 1410-1450 m.
  - Distribution: recorded only from type locality.

□ Genus *Haloceras* DALL, 1889

Type species: *Cithna cingulata* VERRILL, 1889 (mt.) (= *Micropiliscus* DALL, 1927; *Halocerus* auct.)

G1101 *H. japonicus* OKUTANI, 1964-b

- Type locality: 'Sōyō-Maru' sta. B2, 26 miles off Miyake island, Izu islands: 34° 10.0' N., 140° 05.5' E., 1230-1350 m.

- Distribution: recorded only from type locality.

G1102 *H. millestriata* (OKUTANI, 1964-b)

- Type locality: 'Sōyō-Maru' sta. B2, 26 miles off Miyake island, Izu islands: 34° 10.0' N., 140° 05.5' E., 1230-1350 m.
- Distribution: recorded only from type locality.
- Original genus: *Torellia*.

Superfamily CALYPTRAEOIDEA LAMARCK, 1809

(= CREPIDULACEA FLEMING, 1822)

Family CALYPTRAEIDAE LAMARCK, 1809

(= CREPIDULIDAE FLEMING, 1822)

(Refs.: Is. Taki, 1938-d)

□ Genus *Calyptraea* LAMARCK, 1799

Type species: *Patella chinensis* LINNAEUS, 1758 (o. d.) (= *Mitrula* GRAY, 1821; *Mitella* LEACH in GRAY, 1847; *Mitrella* GRAY, 1847 non RISSO, 1826; *Trochilina* GRAY, 1847; *Poculina* GRAY, 1867)

G1103 *C. yokoyamai* FUJITA, 1929

(= *C. mammilaris* YOKOYAMA, 1920 (*pars*) non BRODERIP, 1835)

Kariba-gasa

- Type locality: Tateyama bay, southern Bōsō peninsula, central Honshū.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5.
- Habitat: 200-300 m., attached to shells on sand and shell bottom.

**Notes:** Dr. Kuroda described this species as new in his following article (1929-b: 94), but Fujita gave both a description and reference to Yokoyama's figure on page 89.

G1104 *C. sakaguchi* KURODA & HABE in HABE, 1961-a

Kuri-iro-kariba-gasa (= Sakaguchi-kariba-gasa)

- Type locality: Tatsugahama, Kii peninsula, central Honshū; 20-100 m.
- Distribution: Kii peninsula and southwards, southern Shikoku, western Kyūshū.
- Habitat: 20-100 m., attached to shells or stones on sand and shell bottom.

□ Genus *Crepidula* LAMARCK, 1799

Type species: *Patella fornicata* LINNAEUS, 1758 (o. d.) (= *Dispotaea* SAY, 1826; *Garnotia* GRAY, 1867; *Noicia* GRAY, 1867; *Maoricrypta* FINLAY, 1926; *Zeacrypta* FINLAY, 1926; *Proscenula* FÉRUSSAC, 1822; *Proxenula* auct. err. pro -scenula)

Subgenus *Crepidula* s. str.

G1105 *C. (C.) lamellosa* (A. ADAMS, 1862-c)

- Type locality: 'Gotto Islands' (Gotō islands, off western Kyūshū); 71 fms.
- Distribution: 'Pacific coast at 33° N.' (KURODA &

HABE, 1952-a).

• Original genus: *Crypta*.

G1106 *C. (C.) onyx* **SOWERBY I, 1824**

(= *C. cerithicola* C. B. ADAMS, 1852; *C. lirata* REEVE, 1859; *C. fornicata sensu* SHIKAMA & HORIKOSHI, 1963; MASE, 1969)

Shima-meno-fune-gai

- Type locality: none designated.
- Distribution: Fukushima prefecture (northeastern Honshū), Izu islands, Tōkyō bay, Seto inland sea, Kyūshū (Ariake inland sea), Japan Sea (Shimane prefecture).
- Habitat: intertidal to 20 m. on abalones, *Rapana*, *Pecten* etc.

**Notes:** introduced from north America into central Tōkyō bay and spread from 1968 onwards; see EKAWA, 1985-b.

Subgenus *Bostrycapulus* **OLSSON & HARBISON, 1953**

Type species: *Patella aculeata* GMELIN, 1791 (o. d.)

G1107 *C. (B.) gravispinosus* **KURODA & HABE, 1950**

(= *C. aculeata sensu* LISCHKE, 1871 non GMELIN, 1791; *C. aculeata* LISCHKE *sensu* IWAKAWA, 1900; KURODA, 1928, 1941; S. HIRASE, 1934; S. HIRASE & KURODA, 1947)

Kurusu-gai (= Awa-bune)

- Type locality: Hirado island, Nagasaki prefecture, western Kyūshū.
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2; Korea.
- Habitat: intertidal on rocks, abalone shells etc.

Subgenus *Grandicrepidula* **MCLEAN, 1995-b**

Type species: *Crepidula grandis* MIDDENDORFF, 1849 (o. d.)

(Refs.: Vermeij, 1989)

G1108 *C. (G.) grandis* **MIDDENDORFF, 1849 in 1847-49**

(= *C. dilatata sensu* IWAKAWA, 1919)

Ezo-fune-gai

- Type locality: 'Die St. Pauls-inseln im Behringsmeer' (St. Paul islands, Bering Sea).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and northwards, P8-P10, Hokkaidō, OP, Japan Sea (J5-J6); Aleutian islands, Bering Sea.
- Habitat: intertidal to 100 m., attached to rocks or shells.

Subgenus *Ianacus* **MÖRCH, 1852**

Type species: *Crepidula unguiformis* LAMARCK, 1822

G1109 *C. (I.) isabellae* **(Is. TAKI, 1938-d)**

Suishō-fune-gai

- Type locality: Miyazaki prefecture, southeastern Kyūshū; in aperture of *Laevistrombus turturella* (no. G1031)

• Distribution: Kii peninsula, P5, EC5, ECP4-ECP2.

• Habitat: intertidal to 10 m.

• Original genus: *Ianacus*.

Subgenus *Ergaea* **H. & A. ADAMS, 1854**

Type species: *Crepidula walshi* REEVE, 1859

G1110 *C. (E.) walshi* **REEVE, 1859 in 1843-65**

(= *C. plana* ADAMS & REEVE, 1850 in 1848-50 non SAY, 1822; *C. aculeata sensu* IWAKAWA, 1900-05; *C. orbella* YOKOYAMA, 1922)

Hira-fune-gai (= Shiratama-tsubaki)

- Type locality: 'Singapore'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2; Korea, Indo-western Pacific.
- Habitat: 10-50 m., in dead shells.

□ Genus *Crepidatella* **LESSON, 1830 in 1826-32**

Type species: *Patella dilatata* LAMARCK, 1803 (o. d.)

G1111 *C. lingulata* **(GOULD, 1846 in 1846-50)**

Chishima-fune-gai

- Type locality: Puget sound, Washington, USA.
- Distribution: Hokkaidō (TAKI, 1938-d) and northwards, Kuril islands; Sakhalin (HABE & ITŌ, 1979), Bering Sea, northwestern USA.
- Habitat: intertidal, rocks.
- Original genus: *Calyptraea*.

G1112 *C. fluctuosa* **Is. TAKI, 1938-d**

Sazanami-fune-gai

- Type locality: Tana-mura, Wakayama prefecture, central Honshū.
- Distribution: Kii peninsula, Shikoku (Tokushima prefecture; Kōchi prefecture).
- Habitat: intertidal to 20 m., rocks.

Superfamily **CAPULOIDEA FLEMING, 1822**

Family **CAPULIDAE FLEMING, 1822**

(= TRICHOTROPIDAE GRAY, 1850)

(Refs.: Habe, 1962-a)

□ Genus *Lippistes* **MONTFORT, 1810 in 1808-10**

Type species: *Argonauta cornu* GMELIN, 1791

(= *Separatista* GRAY, 1847)

G1113 *L. helicoides* **(GMELIN, 1791)**

(= *Turbo separatista* DILLWYN, 1817; *Separatista chemnitzii* A. ADAMS, 1850)

Sawarabi (= Ko-nawa-bora)

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, Japan Sea (off Yamaguchi prefecture, JI), EC5, ECP4-ECP2; Indo-Pacific.
- Habitat: intertidal to 20 m. on rocks, on tubes of *Sabellastarte japonica*.

- Original genus: *Turbo*.

G1114 *L. gabrieli* (PRITCHARD & GATLIFF, 1899)

(= *Separatista blainvilleana* PETIT de la SAUSSAYE, 1851, *nomen nudum*; *S. meridionalis* VERCO, 1906)

Umano-sawarabi

- Type locality: Swan Bay channel off Phillip island, Western Port, Victoria, Australia; 4 fms.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, tropical western Pacific, Australia.
- Habitat: intertidal to 20 m., host unknown.
- Original genus: *Trichotropis*.

G1115 *L. rollei* MARTENS, 1894

Hiramaki-nawa-bora

- Type locality: Iki-jima (Iki island), northern Kyūshū.
- Distribution: northwestern Kyūshū; 'Pacific side, 34° N.' (KURODA & HABE, 1952-a).
- Habitat: intertidal to 20 m.

□ Genus *Capulus* MONTFORT, 1810 in 1808-10

Type species: *Patella ungarica* LINNAEUS, 1758

(= *Pileopsis* LAMARCK, 1812)

G1116 *C. badius* DUNKER, 1882

(= *C. badius* (*sic*) sensu SAKURAI, 1986; HIGO & GOTŌ, 1993, *err. pro -dius*)

Kasen-chidori (= Kasen-iso-chidori)

- Type locality: 'Mare Japoniae mediterraneum' (Seto Inland Sea).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2; Philippines.
- Habitat: intertidal, rocks.

G1117 *C. dilatatus* A. ADAMS, 1860-i

Katsura-gai

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2; Korea.
- Habitat: 20-100 m., attached to *Pecten albicans*, *Amusium japonicum* etc.

G1118 *C. japonicus* A. ADAMS, 1861-d

Shiwa-katsura-gai

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (off Sado island, J3-J1), EC5.
- Habitat: 50-100 m., on *Pecten* shells.

G1119 *C. spondylicola* HABE, 1967

Umiguki-katsura-gai

- Type locality: Wakayama prefecture, central Honshū.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2.

- Habitat: on *Spondylus* shells.

G1120 *C. kawamurai* HABE, 1992-c

Ō-katsura-gai

- Type locality: Tosa bay, off Kōchi prefecture, southern Shikoku; 130 m.
- Distribution: Enshū-nada to southern Shikoku.
- Habitat: 130-150 m.

**Notes:** Collected with apparently extinct species *Patinopecten tokyoensis*.

□ Genus *Hyalorisia* DALL, 1889

Type species: *Capulus galea* DALL, 1889 (mt.)

G1121 *H. tosaensis* (ŌTSUKA, 1939-b)

Tosa-katsura-gai

- Type locality: Tosa bay, southern Shikoku; 250 fms.
- Distribution: Izu islands (off Bayonnaise rock, 1940-2150 m. OKUTANI, 1964-b; 1966; 1968), Sagami bay and westwards, P6-P5, off southwestern Kyūshū.
- Habitat: 50-2200 m., on *Propeamussium* spp (Bivalvia).
- Original genus: *Capulus*.

□ Genus *Trichotropis* BRODERIP & SOWERBY, 1829

Type species: *Turbo bicarinata* SOWERBY I, 1825

(= *Cerithioderma* CONRAD, 1860; *Mesostoma* DESHAYES, 1861; *Ariadna* FISCHER, 1864 *non* AUDOIN, 1826; *Verona* GRAY, 1857 *non* H. & A. ADAMS, 1854; *Alora* H. ADAMS, 1862 *non* H. & A. ADAMS, 1853; *Ariadnaria* HABE, 1961-a)

G1122 *T. bicarinata* (SOWERBY I, 1825)

Hige-maki-nawa-bora

- Type locality: 'We are informed that it was brought from Newfoundland' (northeastern USA; probably incorrect - see note).
- Distribution: Fukushima prefecture and northwards, P8-P10, Hokkaidō (off Nemuro MACGINITE, 1959), Kuril islands; Arctic Ocean, northern Atlantic Ocean.
- Habitat: 20-100 m., mud.
- Original genus: *Turbo*.

**Note:** Broderip & Sowerby (1829) give 'in *Oceano Arctico*' as the locality for this species, and mention material from between Icy Cape (near Wainwright, northwestern Alaska) and Cape Lisbon (Alaska).

G1123 *T. borealis* (BRODERIP & SOWERBY, 1829)

• Type locality: 'in *Oceano boreali* (Northern Ocean), *prope Insulam Melville dictam*' (said to be from Melville island, northern Canada).

• Distribution: Okushiri island (Hokkaidō), northern Pacific (KURODA & KINOSHITA, 1951); Arctic Ocean, northern Atlantic Ocean.

**Note:** Broderip and Sowerby also mention material from Oban, Scotland and Icy Cape (near Wainwright,

northwestern Alaska).

G1124 *T. cancellata* (HINDS, 1843-a)

Koromo-nawa-bora

- Type locality: 'Sitka, North-west America. Dredged in the harbour from a sandy bottom, in from five to seven fathoms, together with *T. inermis*'.
- Distribution: northeastern Honshū and northwards, Hokkaidō, P9, P10; Bering Sea to Alaska.
- Habitat: offshore banks, intertidal to 20 m., mud.

G1125 *T. flavida* HINDS, 1843-a

- Type locality: none designated.
- Distribution: Japan.

**Notes:** a specimen (BMNH no. 78.10.16.22) is marked '23° 10' N., 149° 12' E., 30 fms'. Both this and the holotype are on a board marked 'Japan'.

G1126 *T. cedonulli* A. ADAMS, 1860-c

- Type locality: 'off Mino-Sima (Mishima, Japan Sea); 63 fathoms'.
- Distribution: Japan Sea (south off Sado island K. ITŌ, 1989); 'Pacific coast, 33° N., Japan Sea coast 41° N.' (KURODA & HABE, 1952-a).

G1127 *T. insignis* MIDDENDORFF, 1849 in 1847-49

Kagome-nawa-bora

- Type locality: 'Das Behringsmeer' (Bering Sea).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and northwards, P8-P10, Japan Sea (J2-J5); Bering Sea.
- Habitat: 20-50 m., mud.

G1128 *T. quadricarinata* A. ADAMS, 1861-d

(= *Trichotropis quadrilirata* A. ADAMS *sensu* HABE & ITŌ, 1965; HIGO & GOTŌ, 1993 *err. pro -carinata*)  
Moroha-neji-nuki (= Moroha-neji-bora)

- Type locality: 'Mino-Sima' (Mishima, Japan Sea), 63 fms.
- Distribution: Japan Sea (Yamaguchi prefecture and northwards, J2-J5), northeastern Honshū, P8-P10.
- Habitat: 20-50 m., mud.

G1129 *T. conica* MÖLLER, 1842

- Type locality: Greenland.
- Distribution: Hokkaidō (HABE & ITŌ, 1965); northern Pacific, Arctic Ocean, eastern Canada, Greenland, northern Atlantic.

□ Genus *Iphinoe* H. & A. ADAMS, 1854 in 1853-58

Type species: *Trichotropis uncarinata* SOWERBY I, 1834 (= *Neoiphinoe* HABE, 1976)

G1130 *I. uncarinata uncarinata* (SOWERBY I, 1834 in 1821-34)

Neji-nuki

- Type locality: Japan.
- Distribution: northeastern Honshū (Iwate prefecture)

(Ōtsuchi bay TSUCHIDA, 1990), off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, Japan Sea (south off Sado island, J3-J1), Seto inland sea; Yellow Sea, East China Sea.

- Habitat: subtidal to 250 m., sand.
- Original genus: *Trichotropis*.

G1131 *I. uncarinata latus* HABE, 1961-a

Hiro-neji-nuki

- Type locality: off Cape Ashizuri, southwestern Shikoku; 200 m.
- Distribution: Enshū-nada and southwards, off Kii peninsula, southern Shikoku, northwestern Kyūshū.
- Habitat: 200-500 m., fine sand.

G1132 *I. chibai* HABE, 1962-a

Chiba-neji-nuki

- Type locality: off Iwate prefecture, northeastern Honshū.
- Distribution: northeastern Honshū and northwards to Hokkaidō.
- Habitat: ± 100 m., fine sandy mud.

G1133 *I. coronata* (GOULD, 1860 in 1859-61)

Ezo-neji-nuki

- Type locality: Straits of Seniavine, Arctic Ocean; 20 fms., mud.
- Distribution: Hokkaidō and northwards, P10; Arctic Ocean.
- Habitat: 30-50 m., sand.
- Original genus: *Trichotropis* (*Iphinoe*).

□ Genus *Iphinopsis* DALL, 1924

Type species: '*Trichotropis*?' *kelseyi* DALL, 1908 (o. d.) (= *Iphinopsis auct.*, err.)

G1134 *Is. kroyeri* (PHILIPPI, 1849)

Tamago-nawa-bora

- Type locality: 'Spitzbergen' (island, Arctic Ocean north of Norway).
- Distribution: Hokkaidō and northwards, P10, OP, Kuril islands; Bering Sea, Okhotsk Sea, Arctic Ocean.
- Habitat: 50-160 m., fine sandy mud.
- Original genus: *Trichotropis*.

G1135 *I. ovata* (E. A. SMITH, 1885-c)

(= *Iphinoella choshiensis* HABE, 1958-f)  
Ko-ezo-neji-nuki (= Hime-ezo-neji-nuki)

- Type locality: east off Hokkaidō: 42° 52' N., 144° 40' E., 48 fms.
- Distribution: Sagami bay (OKUTANI, 1964-b; 1966; 1968), off Chōshi (Chiba prefecture, central Honshū) and northwards, northeastern Honshū.
- Habitat: 300-1000 m., fine sandy mud.
- Original genus: *Admete*.

□ Genus *Turritropis* HABE, 1961-a

Type species: *Turritopsis turrita* HABE, 1962 (ICZN pending. See HABE, 1977-c: 127)

**G1136 *T. turrita* HABE, 1962-a**

(= *T. ced(-o)-nulli* (sic) A. ADAMS *sensu* HABE, 1961-a *non* A. ADAMS, 1860)

Tōgata-nawa-bora

- Type locality: off Cape Ashizuri, southwestern Shikoku; 50-150 m.
- Distribution: Sagami bay and southwards, Enshū-nada, Kii peninsula (off Cape Shio), southern Shikoku, Japan Sea (Wakasa bay); Korea.
- Habitat: 50-150 m., fine sandy mud.

**G1137 *T. amakusaensis* HABE, 1962-a**

Amakusa-tōgata-nawa-bora (= Kuri-iro-tōgata-nawa-bora)

- Type locality: off Tomioka, Amakusa island, western Kyūshū.
- Distribution: Sagami bay and southwards, Kii peninsula (off Cape Shio), southern Shikoku, western Kyūshū.
- Habitat: 20-100 m., fine sand.

□ Genus *Trichamathina* HABE, 1962

Type species: *Amathina nobilis* A. ADAMS, 1867 (o. d.)

**G1138 *T. nobilis* (A. ADAMS, 1867-a)**

Ezo-iso-chidori (= Ezo-chidori)

- Type locality: 'Cape Notoro, Island of Saghalien' (Sakhalin).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and northwards, Hokkaidō, Kuril islands; Sakhalin.
- Habitat: 50-100 m.
- Original genus: *Amathina*.

**Note :** Ainu-iso-chidori *T. buccinula* (GOLIKOV in GOLIKOV & SCARLATO, 1967), type locality: Opasnaya bight, Posyet bay, western Primoriye region (Russian coast of Japan Sea) was recorded from 'off Berukina, Hokkaidō' (HABE & ITŌ, 1979).

Superfamily **XENOPHOROIDEA TROSCHEL, 1852**

Family **XENOPHORIDAE TROSCHEL, 1852**

(= ONUSTIDAE H. & A. ADAMS, 1854; PHORIDAE GRAY, 1840 *non* CURTIS, 1833)  
(Refs.: Habe, 1953-b; Ponder, 1983)

□ Genus *Xenophora* FISCHER von WALDHEIM, 1807

Type species: *Xenophora laevigata* FISCHER von WALDHEIM, 1807 (s. d. GRAY, 1847; = *Trochus conchyliophorus* BORN, 1778)

(= *Phorus* MONTFORT, 1810; *Xenophorus* PHILIPPI, 1849 *Endoptygma* GABB, 1877)

Subgenus *Xenophora s. str.*

**G1139 *X. (X.) japonica* KURODA & HABE in**

**KURODA *et al.*, 1971**

(= *X. japonica* KIRA, 1962 *nom. nud.*)

Hon-kumasaka

- Type locality: 5 km. northwest off Jōgashima, Sagami bay, central Honshū; 200-300 m.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, East China Sea, ECP4-ECP2, P2; Philippines, Kermadec islands (PONDER, 1983).
- Habitat: 50-300 m., rubble or shell bottom.

**G1140 *X. (X.) pallidula* (REEVE, 1842 in 1841-42)**

(= *X. pallida* (sic) *sensu* HABE & KOSUGE, 1967)

Kumasaka-gai

- Type locality: 'Coast of Japan'.
- Distribution: northeastern Honshū and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2; 'Indian Ocean from South Africa to Oman & India, central Indo-Pacific to eastern Australia' (PONDER, 1983)
- Habitat: 50-1050 m., sandy mud.
- Original genus: *Phorus*.

**G1141 *X. (X.) solarioides* (REEVE, 1845 in 1843-65)**

(= *Onustus javanicus* GRAY, 1857; *X. (Phorus) australis* SOUVERBIE & MONTROUZIER, 1870; *X. cerea* FISCHER, 1879 *non* REEVE, 1845)

Kuruma-kumasaka

- Type locality: 'Island of St. Nicolas and Zebu, Philippines (found in sandy mud at the depth of six fathoms)'.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2; 'tropical Indian Ocean, Red Sea, central Indo-Pacific and Western Pacific including the Australian east coast' (PONDER, 1983).
- Habitat: intertidal to 60 m., coarse sand and stones.

**G1142 *X. (X.) mekranensis konoii* HABE, 1953-b**

(= *X. caperata* SCHEPMAN, 1909 in 1908-13 *non* PHILIPPI, 1851; *X. konai* (sic) *sensu* LADD, 1977)

Chirimen-kumasaka

- Type locality: Bungo strait between Shikoku and eastern Kyūshū; 50-100 m.
- Distribution: southern Shikoku and southwards, P5, EC5, East China Sea; northern Australia, Indo-Pacific, Indian Ocean (Mauritius, Sri Lanka, Andaman Ids. PONDER, 1983).
- Habitat: 50-150 m., coarse sand and stones.

**G1143 *X. (X.) regularis* HABE & OKUTANI, 1983**

(June)

(= *X. (X.) granulosa* PONDER, 1983 (September)

Sebu-chirimen-kumasaka

- Type locality: New Caledonia: 22° 17' S., 167° 12' E., 390 m.
- Distribution: Okinawa (off Manzamo, 130 m. KUBO,

1987) and southwards, P2; Philippines, South China Sea, western Pacific, Indonesia, New Britain, New Caledonia.  
• Habitat: 50-150 m., coarse sand and stones.

G1144 *X. (X.) tenuis* FULTON, 1938

Usu-kumasaka

- Type locality: Kii peninsula, central Honshū.
- Distribution: Suruga bay and southwards, P6-P5, EC5, ECP4-ECP2, Okinawa (off Naha, 220-280 KUBO, 1987), East China Sea; Philippines, Indian Ocean.
- Habitat: 100-300 m., sandy mud.

G1145 *X. (X.) torrida* KURODA & ITŌ, 1961-a

(= *X. corrugata sensu* KIRA, 1959-a non REEVE, 1843; *X. turrida (sic) sensu* KIRA, 1962; *X. cerea sensu* SPRINGSTEEN & LEOBRERA, 1986)

Koge-kumasaka

- Type locality: Kusui beach, Gobō, Wakayama prefecture (Kii peninsula, central Honshū).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, Indo-Pacific.
- Habitat: 40-150 m., coarse sand and stones.

G1146 *X. (X.) cerea* (REEVE, 1845 in 1843-65)

(= *Trochus agglutinans sensu* CUVIER, 1849 non LAMARCK, 1804; *X. corrugata sensu* PHILIPPI, 1855; TRYON, 1886; SCHEPMAN, 1909 in 1908-13; HABE, 1953, 1964; CERNOHORSKY, 1972; OKUTANI, 1975; *Onustus trochiformis* BERGH, 1904; Shiwa-kumasaka (= Shiwa-kinugasa; Tenjiku-kumasaka)  
• Type locality: 'Banguay, north end of the island of Luzon, Philippines (found in coarse sand at the depth of ten fathoms)'.

- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, Okinawa (off Yasuda, 100-160 m. KUBO, 1987), P2; Philippines, 'western Indian Ocean, Red Sea, tropical Australia, western Pacific to Fiji, Marshall islands, Pitcairn' (PONDER, 1983).
- Habitat: subtidal to 270 m., rubble.
- Original genus: *Phorus*.

Subgenus *Stellaria* SCHMIDT in MÖLLER, 1832

Type species: *Trochus solaris* LINNAEUS, 1764  
(= *Haliphoebus* FISCHER in KIENER, 1880)

G1147 *X. (S.) chinensis* (PHILIPPI, 1841-b)

(= *Phorus calculiferus* REEVE, 1842)

Ō-kumasaka

- Type locality: 'China'
- Distribution: Kii peninsula and southwards, P5, EC5, East China Sea, ECP4-ECP2; Papua New Guinea, western Australia, Red Sea, Indo-western Pacific.
- Habitat: 4-140 m., sandy mud.
- Original genus: *Trochus*.

G1148 *X. (S.) gigantea* SCHEPMAN, 1909 in 1908-13

Daiō-kumasaka (= Daiō-kinugasa)

- Type locality: 'Siboga', sta. 38, Flores Sea, Indonesia: 07° 35.4' S., 117° 28.6' E., 521 m.
- Distribution: Suruga bay and southwards, P6-P5, EC5, East China Sea, ECP4-ECP2, P2; Philippines, Indo-western Pacific, South Africa, Indian Ocean, Australia.
- Habitat: 60-700 m., sandy mud.

Subgenus *Onustus* SWAINSON, 1840

Type species: *Trochus indicus* GMELIN, 1791  
(= *Onustus auct.*; *Tugurium* FISCHER in KIENER, 1876; *Trochotugurium* SACCO, 1896)

G1149 *X. (O.) exuta* (REEVE, 1842 in 1841-42)

(= *X. (Tugurium) belvacea sensu* KURODA, 1941)

Kinu-gasa-gai

- Type locality: none originally given; 'China' in REEVE, 1843-65.
- Distribution: Bōsō peninsula and southwards, P7-P5, Ogasawara islands, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, East China Sea; Korea, China, Papua New Guinea, northern Australia, Indo-western Pacific.
- Habitat: 18-340 m., sandy mud.
- Original genus: *Phorus*.

Superfamily VERMETOIDEA RAFINESQUE, 1815

Family VERMETIDAE RAFINESQUE, 1815

□ Genus *Vermetus* DAUDIN, 1800

Type species: *Vermetus adansonii* DAUDIN, 1800  
(= *Bivonia* GRAY, 1847 non COCCO, 1832; *Siphonium* GRAY, 1850; *Dofania* MÖRCH, 1860; *Bivoniopsis* SACCO, 1896)

G1150 *V. renisectus renisectus* (CARPENTER, 1857)

Mukade-gai

- Type locality: 'in Oceano ?Indico' (sic).
- Distribution: Kii peninsula, P5, P11, Ogasawara islands, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2; Philippines, Indo-Pacific.
- Habitat: intertidal on rocks, shells etc.
- Original genus: *Petalococonchus*.

G1151 *V. renisectus gordialis* MÖRCH, 1861

Ryūkyū-mukade

- Type locality: 'Ins. Philippin.' (Philippines).
  - Distribution: Ogasawara islands and southwards, P11, southern Shikoku, P5, ECP4-ECP2, P2; Philippines.
  - Habitat: intertidal on rocks, shells etc.
- Notes:** Mörch confusingly described another '*gordialis*' (*V. conicus forma gordialis*) on page 342 of the same paper.

G1152 *V. tokyoensis* PILSBRY, 1895-a

Kubitate-hebi-gai

- Type locality: 'Tōkyō Harbor, Japan'.
- Distribution: Bōsō peninsula and southwards, Ogasawara islands, P7-P5, Japan Sea (Noto peninsula, J3-J1), EC5.

- Habitat: subtidal to 150 m., on rocks, shells etc.

G1153 *V. vitreus* **KURODA & HABE in KURODA et al., 1971**

Kohaku-kubitate-hebi-gai

- Type locality: 5 km. west of Jōgashima, Sagami bay (central Honshū).
- Distribution: Sagami bay and westwards, southern Shikoku, off western Kyūshū.
- Habitat: 50-200 m., on shells.

G1154 *V. alli* **HADFIELD & KAY, 1972**

- Type locality: Oahu island, Hawaii.
- Distribution: Pacific coast of central Japan; Hawaii.
- Habitat: 70-350 m., on shells.

G1155 *V. dragonella* **(OKUTANI & HABE in HABE & OKUTANI, 1990)**

Tatsunoko-hebi-gai

- Type locality: southern Kyūshū.
- Distribution: Kii peninsula and southwards, southern Shikoku (HIGO & GOTŌ, 1993), Ogasawara islands (FUKUDA, 1995).
- Original genus: *Bivonia*.

**Note:** see FUKUDA, 1995: 9-10.

□ Genus *Dendropoma* **MÖRCH, 1861**

Type species: *Siphonium (Dendropoma) lituella* MÖRCH, 1861

(= *Spirogyphus* DAUDIN, 1800; *Stoa* SÈVRES, 1855 (*pars*); *Siphonium* MÖRCH, 1859 *non* GRAY, 1847; *Veritoma* KURODA, 1928; *Veristoa* IREDALE, 1937-a)

G1156 *D. maximum* **(SOWERBY I, 1825)**

Futamochi-hebi-gai

- Type locality: none designated (Tankerville collection).
- Distribution: Kii peninsula and southwards, P11, Ogasawara islands, P5, ECP3-ECP2; Korea, tropical Pacific.
- Habitat: intertidal, on coral.
- Original genus: *Serpula*.

G1157 *D. luchuana* **(KURODA, 1928-c)**

Kuchikire-hebi-gai

- Type locality: Amami Ōshima.
- Distribution: Amami islands and southwards, ECP3-ECP2.
- Habitat: intertidal, rocks.
- Original genus: *Vermitoma*.

**Notes:** originally given as a Hirase MS name; no type material is known to exist.

G1158 *D. meroclista* **HADFIELD & KAY, 1972**

Kappa-mukade-gai

- Type locality: Hawaiian islands.
- Distribution: Ogasawara islands (Chichijima FUKUDA,

1993); Hawaii, Marshall islands.

- Habitat: intertidal on coral.

G1159 *D. planorbis* **(DUNKER, 1860)**

(= *D. gregaria* HADFIELD & KAY, 1972)

Mijin-mukade

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: southern Shikoku and southwards, Ogasawara islands, P5, EC5, ECP4-ECP2, P2; Philippines.
- Habitat: intertidal on shells or rubble.
- Original genus: *Vermetus*.

**Notes:** Hire-mijin-mukade is normally cited as *Stoa spirulaeformis* SERRES, 1855 (type locality: 'l'île de Zanzibar, des mers d'Afrique'). It is reported from the Yaeyama islands and Minami-Daitō-jima but the present authors have been unable to confirm the presence of this species in Japan.

□ Genus *Petalococonchus* **LEA, 1843**

Type species: *Petalococonchus sculpturatus* LEA, 1843

(*nom. nud.* = *P. sculpturatus* LEA, 1846)

Subgenus *Macrophragma* **CARPENTER, 1857**

Type species: *Petalococonchus macrophragma* CARPENTER, 1856

G1160 *P. (M.) annulatus* **(YOKOYAMA, 1924-a)**

- Type locality: Numa, Tateyama City, Chiba prefecture, central Honshū (fossil).
- Distribution: 'Pacific coast at 34° N.' (ŌYAMA, 1973).
- Habitat: subtidal to 30 m., on rocks.
- Original genus: *Vermetus*.

□ Genus *Serpulorbis* **SASSI, 1827**

Type species: *Serpulorbis polyphragma* SASSI, 1827 (mt.)

(= *Cladopoda* GRAY, 1850; *Aletes* CARPENTER, 1857; *Anguinella* CONRAD, 1846; *Hatina* GRAY, 1847; *Lemintina* RISSO, 1826; *Serpuloides* GRAY, 1850; *Tetranemia* MÖRCH, 1859; *Thylacodes* MÖRCH, 1862)

G1161 *S. dentiferus* **(LAMARCK, 1818 in 1815-22)**

Somewake-hebi-gai

- Type locality: 'les mers de l'Asie australe' (seas of southern Asia).
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2.
- Habitat: subtidal-100 m., rocks.
- Original genus: *Serpula*.

G1162 *S. validus* **HABE & OKUTANI, 1975**

(= *S. validus* KURODA & HABE, 1952-a *nom. nud.*; *T.*

*medusae* PILSBRY (*pars*) *sensu* IWAKAWA, 1919;

KURODA, 1928; S. HIRASE, 1934)

- Type locality: 'Okinawa'.
- Distribution: southern Shikoku and southwards, P5, EC5,



ECP4-ECP2; western Pacific.

- Habitat: intertidal to 20 m., rocks.

**Notes:** this name is a misspelt accidental validation of *S. validus*, a *nomen novum* introduced by Kuroda and Habe (1952-a: 85) for *Thylacodes medusae (pars)* PILSBRY, 1892 (Proc. Acad. Sci. Phil. (1891): 471, pl. 18). As Pilsbry did not distinguish between his figured specimens, Kuroda and Habe's name is invalid (PETIT, pers. comm.) Habe and Okutani figured and described a specimen (current location unknown) apparently quite different from *T. medusae*. Their Japanese name (Ryūkyū-hebi-gai) had already been applied by Shikama and Horikoshi to *S. trimeresurus*.

G1163 *S. medusae* (PILSBRY, 1891)

Hama-kazura (= Ryū-ō-hebi-gai)

- Type locality: 'Japan'.
- Distribution: Sagami bay and westwards, P6-P5, western Kyūshū; Korea.
- Habitat: 40-200 m., adhering to stones, shells etc.
- Original genus: *Thylacodes*.

G1164 *S. xenophorus* HABE, 1961-a

Ryūgū-kazura

- Type locality: off Cape Ashizuri, southwestern Shikoku.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J3-J1), EC5, East China Sea.
- Habitat: ± 200 m., on rubble.

G1165 *S. imbricatus* (DUNKER, 1860)

Ō-hebi-gai (= Magari)

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: southern Hokkaidō and southwards, P10-P5, P11, Ogasawara islands, Japan Sea (Oga peninsula, J3-J1), EC5, P2; Korea, China.
- Habitat: intertidal to 10 m., rubble.
- Original genus: *Vermetus*.

G1166 *S. daidai* SCHEUWIMMER & NISHIWAKI, 1982

Orenji-hebi-gai (= Daidai-hebi-gai)

- Type locality: Susaki, Shimoda, Shizuoka prefecture (central Honshū).
- Distribution: Izu peninsula (intertidal on rocks), Kii peninsula (60 m.), western Kyūshū (100m.)

G1167 *S. nodosorugosus* (LISCHKE, 1869 in 1868-73)

Murasaki-hebi-gai

- Type locality: 'Ohosaka' (probably Ōsaka bay; Lischke noted that there were 'many specimens on the shells of *Tridacna*').
- Distribution: central Honshū to Amami islands and southwards, ECP3-ECP2, P2.
- Habitat: intertidal, rocks or rubble.
- Original genus: *Vermetus*.

G1168 *S. variabilis* HADFIELD & KAY, 1972

Mikan-hebi-gai

- Type locality: Hawaiian islands.
- Distribution: Ogasawara islands (Chichijima; Hahajima FUKUDA, 1993); Hawaii, Marshall islands.
- Habitat: intertidal to 3 m., coral.

G1169 *S. trimeresurus* SHIKAMA & HORIKOSHI, 1963

Ryūkyū-hebi-gai

- Type locality: 'Ryūkyū, Japan'.
- Distribution: unknown.

**Notes:** an Ōyama MS name, inadvertently validated with a figure and description by Shikama and Horikoshi. The present authors have been unable to trace the figured specimen.

Superfamily CYPRAEOIDEA RAFINESQUE, 1815

Family CYPRAEIDAE RAFINESQUE, 1815

(Refs.: Burgess, 1970; Lorenz & Hubert, 1993)

Subfamily PUSTULARIINAE GILL, 1871

□ Genus *Pustularia* SWAINSON, 1840

Type species: *Cypraea cicercula* LINNAEUS, 1758 (= *Epona* H. & A. ADAMS, 1854)

G1170 *P. cicercula cicercula* (LINNAEUS, 1758)

(= *Cypraea lienardi* JOUSSEAUME, 1874; *P. vulavula* STEADMAN & COTTON, 1943)

Chidori-dakara

- Type locality: 'in *M. Mediterraneo*' (Mediterranean Sea; erroneous).
- Distribution: Kii peninsula and southwards, Ogasawara islands, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-western Pacific.
- Habitat: 5-10 m., rocks and coral on reefs.
- Original genus: *Cypraea*.

G1171 *P. cicercula margarita* (DILLWYN, 1817)

(= *Cypraea tricornis* JOUSSEAUME, 1874; *P. margarita tetsuakii sensu* KIRA, 1959; HABA & KOSUGE, 1967)

Tetsuaki-chidori-dakara

- Type locality: Ambon island, Indonesia (reference by Dillwyn to Rumphius).
- Distribution: Kii peninsula (Cape Shio) and southwards, P11, Ogasawara islands, P5, EC5, ECP4-ECP2; Indo-western Pacific.
- Habitat: intertidal to 10 m., rocks and coral reefs.
- Original genus: *Cypraea*.

G1172 *P. globulus* (LINNAEUS, 1758)

(= *Cypraea affinis* GMELIN, 1791)

Meno-chidori-dakara

- Type locality: 'in *Asia*'.
- Distribution: Amami islands and southwards, P11, Ogasawara islands, ECP3-ECP2, P2; Philippines, Indo-

Pacific.

- Habitat: intertidal to 10 m. on coral reefs.
- Original genus: *Cypraea*.

**G1173 *P. bistrinotata bistrinotata* SCHILDER & SCHILDER, 1937**

(= *P. keelingensis* SCHILDER & SCHILDER, 1940; *P. b. mediocris sensu* KURODA, 1941; KIRA, 1962 non SCHILDER & SCHILDER, 1938)

Koge-chidori-dakara

- Type locality: Bismarck Archipelago, northeastern New Guinea; 'Ulamona (collected by natives)', Mope and Karlei.
- Distribution: Kii peninsula and southwards, southern Kyūshū, Ogasawara islands, P5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to 10 m., rocks.

**G1174: *P. bistrinotata mediocris* SCHILDER & SCHILDER, 1938**

Nami-kage-chidori-dakara

- Type locality: none designated (described as a 'race' of *P. bistrinotata*).
- Distribution: Ogasawara islands (FUKUDA, 1993); Melanesia, New Caledonia.
- Habitat: intertidal to 15 m., under coral & rubble on reefs.

□ Genus *Ipsa* JOUSSEAUME, 1884-a

Type species: *Cypraea childreni* GRAY, 1825

**G1175 *I. childreni* (GRAY, 1825 in 1825-28)**

(= *Pustularia (Ipsa) childreni samurai* SCHILDER & SCHILDER, 1940; *P. (I.) novaecaledoniae* SCHILDER & SCHILDER, 1952)

Chirimen-dakara

- Type locality: none designated.
- Distribution: Kii peninsula (Cape Shio) and southwards, P5, Ogasawara islands, ECP4-ECP2; Indo-Pacific.
- Habitat: intertidal to 20 m., under or in coral; 5 to 50 m., among sponges.
- Original genus: *Cypraea*.

□ Genus *Annepona* IREDALE, 1935

Type species: *Cypraea annulata* GRAY, 1828 (= *nom. nud.*; = *A. mariae* SCHILDER, 1927)

**G1176 *A. mariae* (SCHILDER, 1927)**

(= *Cypraea annulata* GRAY, 1828-b *nom. nud.*; *C. mantellum* WALLS & BURGESS, 1980)

Fuiri-chidori

- Type locality: 'Pacific Ocean, King George's Islands'.
- Distribution: southern Kyūshū and southwards, ECP4-ECP2, P2; Philippines, central Pacific, Tuamotos, Palau, western Australia.
- Habitat: intertidal to 10 m., among sponges and soft corals.

- Original genus: *Cypraea* (*Pustularia*).

Subfamily STAPHYLAEINAE IREDALE, 1935

□ Genus *Staphylaea* JOUSSEAUME, 1884-a

Type species: *Cypraea staphylaea* LINNAEUS, 1758

Subgenus *Staphylaea s. str.*

**G1177 *S. (S.) staphylaea* (LINNAEUS, 1758)**

(= *Cypraea atrata* GRAY, 1825 in 1825-28; *C. consobrina* GARRETT, 1879; *C. depravata* DAUTZENBERG, 1903; *C. albicilla* SULLIOTTI, 1924; *C. laevigata* DAUTZENBERG, 1932; *S. expallescens* DAUTZENBERG & BOUGE, 1933; *S. descripta* IREDALE, 1935; *S. nukulau* STEADMAN & COTTON, 1943; *S. fortis, grisea, lactea*, all COEN, 1949)

Same-dakara

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, Ogasawara islands, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2; Indo-Pacific.
- Habitat: intertidal to 50 m., rocks.
- Original genus: *Cypraea*.

- Type locality: none designated.

• Distribution: Bōsō peninsula and southwards, Ogasawara islands, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2; Indo-Pacific.

- Habitat: intertidal to 50 m., rocks.

- Original genus: *Cypraea*.

**G1178 *S. (S.) limacina* (LAMARCK, 1810)**

(= *Cypraea jenningsia* PERRY, 1811; *C. interstincta* WOOD, 1828 in 1818-28; *C. lilacina* WEINK, 1881; *Purpurosa facifer* IREDALE, 1935; *P. limacina monstrans* IREDALE, 1935; *S. purpurosa ruvaya* STEADMAN & COTTON, 1943)

Shibori-dakara

- Type locality: 'Amboina' (Ambon island, Indonesia).
- Distribution: Bōsō peninsula and southwards, P7-P5, P11, Ogasawara islands, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to 20 m., under or in coral, among rocks.
- Original genus: *Cypraea*.

Subgenus *Nucleolaria* ŌYAMA, 1959

Type species: *Cypraea nucleus* LINNAEUS, 1758 (o. d.)

(= *Nuclearia* JOUSSEAUME, 1884-a non

CIENKOWSKY, 1865)

**G1179 *S. (N.) nucleus* (LINNAEUS, 1758)**

(= *Cypraea nussatellana* RUMPHIUS *auct.*; *C. lima* RÖDING, 1798; *C. variolosa* RÖDING, 1798; *C. gemmosa* PERRY, 1811; *C. cerea* SULLIOTTI, 1924; *S. (Nuclearia) nucleus sturanyi* SCHILDER & SCHILDER, 1938; *S. granulosa* SCHILDER & SCHILDER, 1940)

Ibo-dakara

- Type locality: '*O. Indiae orientalis*'.
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, ECP4-ECP2; Indo-Pacific.
- Habitat: subtidal to 400 m., coral or rocks.

- Original genus: *Cypraea*.

Subfamily **TALPARIINAE SCHILDER, 1936**

□ Genus ***Talparia* TROSCHER, 1863**

Type species: *Cypraea talpa* LINNAEUS, 1758

G1180 ***T. talpa* (LINNAEUS, 1758)**

(= *Cypraea saturata* DAUTZENBERG, 1903; *T. talpa imperialis* SCHILDER & SCHILDER, 1938)

Taru-dakara

- Type locality: 'in Asia'.
- Distribution: Kii peninsula and southwards, P11, Ogasawara islands, P5, ECP4-ECP2; Indo-Pacific.
- Habitat: intertidal to 20 m., under rocks or coral.
- Original genus: *Cypraea*.

□ Genus ***Luria* JOUSSEAUME, 1884-a**

Type species: *Cypraea lurida* LINNAEUS, 1758

(= *Basilitronea* IREDALE, 1930)

G1181 ***L. isabella* (LINNAEUS, 1758)**

(= *Cypraea literata* TIME, 1822; *C. controversa* GRAY, 1824; *C. clara* GASKOIN, 1851; *L. isabella rumphii* SCHILDER & SCHILDER, 1938; *Basilitronea isabella cavia* STEADMAN & COTTON, 1943; *B. isabella lemuriana* STEADMAN & COTTON, 1946; *B. cylindroides* COEN, 1949)

Yanagi-shibori-dakara

- Type locality: 'in Mauritio, Madagascæ' (Mauritius and Madagascar).
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, western Japan Sea (northern Yamaguchi prefecture HOSAKA *et al.*, 1996, J1), EC5, ECP4-ECP2; Indo-Pacific.
- Habitat: intertidal to 20 m., rocks and coral.
- Original genus: *Cypraea*.

G1182 ***L. tessellata* (SWAINSON, 1822)**

(= *Cypraea trigonella* BLAINVILLE, 1826; *L. lani* RAYBAUDI, 1986)

Goban-dakara

- Type locality: Hawaiian islands.
- Distribution: Kii peninsula (off Tsui KOYAMA, 1988; off Minabe), Senkaku islands; Midway, Hawaii.
- Habitat: 20-80 m., among coral heads or rocks.
- Original genus: *Cypraea*.

□ Genus ***Chelycypraea* SCHILDER, 1927**

Type species: *Cypraea testudinaria* LINNAEUS, 1758

G1183 ***C. testudinaria* (LINNAEUS, 1758)**

(= *Cypraea testudinosus* PERRY, 1811; *C. (Chelycypraea) testudinaria ingens* SCHILDER & SCHILDER, 1938)

Murakumo-dakara

- Type locality: none designated in 1758; 'in Sinu Persico' (Persian Gulf) in LINNAEUS, 1767.

- Distribution: P11, Ogasawara islands and westwards, Amami islands and southwards, ECP3-ECP2; Indo-Pacific.
- Habitat: 10-30 m., rocks and coral reefs.
- Original genus: *Cypraea*.

□ Genus ***Arestorides* IREDALE, 1930**

Type species: *Cypraea argus* LINNAEUS, 1758

(= *Porcellana* ROBERTS, 1870 *non* HUMPHREY, 1797)

G1184 ***A. argus* (LINNAEUS, 1758)**

(= *Cypraea contrastriata* PERRY, 1811; *C. argus ventricosa* GRAY, 1824; *C. concatenata* DAUTZENBERG, 1903; *Lyncina bynei* SULLIOTTI, 1924)

Janome-dakara

- Type locality: 'in O. Africae' (African seas).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: subtidal to 20 m., rocks and coral reefs.
- Original genus: *Cypraea*.

Subfamily **ERRONEINAE SCHILDER, 1924**

□ Genus ***Erronea* TROSCHER, 1863**

Type species: *Cypraea ovum erronea* LINNAEUS, 1758

Subgenus ***Erronea s. str.***

G1185 ***E. (E.) ovum erronea* (LINNAEUS, 1758)**

(= *Cypraea oblonga* GMELIN, 1791; *C. pusilla* GMELIN, 1791; *C. caerulescens* SCHRÖTER, 1804; *C. bimaculata* GRAY, 1824; *C. chrysophaea* MELVILL, 1888; *Erronea compressa* DAUTZENBERG, 1903; *E. nimiserrans* IREDALE, 1935; *E. nimiproba* IREDALE, 1939; *E. nimimagerones* IREDALE, 1939; *E. nimiserrans kalava* STEADMAN & COTTON, 1943; *E. erronea vivili* STEADMAN & COTTON, 1943; *E. fusca* COEN, 1949; *E. erronea*, *erronesa auct.*)

Natsume-modoki (= Nan'yō-natsume-modoki)

- Type locality: none designated.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, EC5, ECP4-ECP2; northern Australia, Indo-western Pacific.
- Habitat: intertidal to 10 m., coarse sand and stones; coral reefs.
- Original genus: *Cypraea*.

G1186 ***E. (E.) ovum ovum* (GMELIN, 1791)**

(= *Cypraea cruentatum* GMELIN, 1791; *C. olivacea* LAMARCK, 1810; *C. ovata* GRAY, 1824; *E. (E.) ovum chrysostruma* SCHILDER, 1927; *E. (E.) ovum palauensis* SCHILDER, 1938; *E. bartletti* STEADMAN & COTTON, 1946)

Natsume-dakara (= Kiguchi-natsume-dakara)

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P7-P5, EC5, ECP4-ECP2; northern Australia, Indo-western Pacific.

- Habitat: intertidal to 10 m., coral reefs.
- Original genus: *Cypraea*.

G1187 *E. (E.) cylindrica* (BORN, 1778)

(= *Cypraea cornus* RÖDING, 1798; *C. caerulea* FISCHER, 1807; *C. formosa* GRAY, 1824; *C. subcylindrica* SOWERBY, 1870; *Palangerosa cylindrica lenella* IREDALE, 1939; *P. cylindrica sista* IREDALE, 1939; *P. cylindrica wangga* STEADMAN & COTTON, 1943; *E. emaculata* COEN, 1949)

Hiro-kuchi-dakara

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, southern Kyūshū, ECP4-ECP2, P2; Philippines, western Pacific.
- Habitat: intertidal to 10 m., rocks.
- Original genus: *Cypraea*.

G1188 *E. (E.) caurica* (LINNAEUS, 1758)

(= *Cypraea dracaena* BORN, 1778; *C. corrosa* GRONOVIVUS, 1781; *C. derosa* GMELIN, 1791; *C. lentigo* RÖDING, 1798; *C. ligata* SCHRÖTER, 1804; *C. inspersa* LINK, 1807; *C. elongata* PERRY, 1811; *C. dubia* GRAY, 1831; *C. concava* SOWERBY, 1870; *C. obscura* ROSSITER, 1882; *C. oblongata* MELVILL, 1888; *C. cairnsiana* MELVILL & STANDEN, 1904; *C. oblongata nana* JACKSON, 1906; *E. rosea* TAYLOR, 1913; *E. nigrocincta* SCHILDER, 1924; *E. caurica longior, thema, blaesa*, all IREDALE, 1935; *E. obscurata* SCHILDER, 1940; *E. pseudoarabacula, multidentata, caledonica*, all COEN, 1949)

Kabafu-dakara

- Type locality: none given in 1758; 'in Oceano Indico' (LINNAEUS, 1767).
- Distribution: Kii peninsula and southwards, P11, Ogasawara islands, P5, western Japan Sea (northern Yamaguchi prefecture HOSAKA *et al.*, 1996), EC5, ECP4-ECP2; Indo-Pacific.
- Habitat: intertidal to 20 m., coarse sand and stones; coral reefs.
- Original genus: *Cypraea*.

Subgenus *Ovatipsa* IREDALE, 1931

Type species: *Cypraea chinensis* GMELIN, 1791 (o. d.)

G1189 *E. (O.) chinensis* (GMELIN, 1791)

(= *Cypraea variolae* RUMPHIUS *auct.*; *C. cremata* RÖDING, 1798; *C. morbillosa* RÖDING, 1798; *C. flavescens* SCHRÖTER, 1804; *C. variolaria* LAMARCK, 1810; *C. violacea* ROUS, 1905; *C. tortirostris* SOWERBY, 1906; *C. amiges* MELVILL & STANDEN, 1915; *C. splendens* TAYLOR, 1916; *C. colonata* DAUTZENBERG, 1932; *C. convergens* DAUTZENBERG, 1932; *Cribraria (Ovatipsa) chinensis sydneyensis* SCHILDER & SCHILDER, 1938; *C. (O.) chinensis whitworthi* CATE,

1964; *C. chiensis (sic) sensu* BURGESS, 1970, *err. pro - nensis*)

Suso-murasaki-dakara (= Murasaki-kinuta)

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, EC5, ECP4-ECP2; Indo-western Pacific, central Pacific, east Africa.
- Habitat: subtidal to 20 m., coral reefs.
- Original genus: *Cypraea*.

□ Genus *Talostolida* IREDALE, 1931

Type species: *Cypraea teres* GMELIN, 1791 (o. d.)

G1190 *T. teres* (GMELIN, 1791)

(= *Cypraea subfasciata* LINK, 1807; *C. tabescens* DILLWYN, 1817; *C. cylindrica* BLAINVILLE, 1826 *non* BORN, 1778; *C. alveolus* TAPPARONE-CANEFRI, 1882; *C. elaioides* MELVILL, 1888; *C. punctulata* HIDALGO, 1907; *C. faedata* SULLIOTTI, 1911; *Talostolida transpiciens* TAYLOR, 1916; *C. teres penetella* IREDALE, 1939; *T. subteres hermani* IREDALE, 1939)

Edakara

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, EC5, ECP4-ECP2; Indo-Pacific.
- Habitat: subtidal to 20 m., rocks and coral reefs.
- Original genus: *Cypraea*.

□ Genus *Blasicrura* IREDALE, 1930

Type species: *Cypraea rhinoceros* SOWERBY II, 1865 (= *Eclogavena* IREDALE, 1930)

G1191 *B. interrupta* (GRAY, 1824)

(= *Cypraea prestoni* SHAW, 1909; *C. (Erronea) rhinoceras* (SOVERBIE) *sensu* KURODA, 1928; *Blasicrura (sic) pallidula* (GASKOIN) *sensu* KURODA, 1941)

Mame-shibori-dakara (= Puresuton-koyasu)

- Type locality: 'Ceylon' (Sri Lanka).
- Distribution: Kii peninsula (Cape Shio) and southwards, P5, southern Shikoku, southern Kyūshū, ECP4-ECP2; Indo-western Pacific.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Cypraea*.

G1192 *B. pallidula pallidula* (GASKOIN, 1849-a)

(= *Cypraea rhinoceros* SOVERBIE, 1865; *B. rhinoceras (sic) vivia* STEADMAN & COTTON, 1943)

Usu-murasaki-dakara

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2; western Pacific.
- Habitat: intertidal to 10 m., rocks and coral reefs.
- Original genus: *Cypraea*.

G1193 *B. pallidula luchuana* KURODA, 1960

Ryūkyū-dakara

- Type locality: Okinawa.
- Distribution: southern Okinawa islands.
- Habitat: intertidal to 10 m., sand.
- Original genus: *Bistolida* (*Blasicrura*).

G1194 *B. quadrimaculata* (GRAY, 1824)

(= *Cypraea nimbose* DILLWYN, 1827; *B. quadrimaculata garretti* SCHILDER & SCHILDER, 1938; *B. q. thielei* SCHILDER & SCHILDER, 1938)

Yotsume-dakara

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, tropical western Pacific.
- Habitat: subtidal to 10 m. under rocks and coral.
- Original genus: *Cypraea*.

□ Genus *Bistolida* COSSMANN, 1920

Type species: *Cypraea stolidia* LINNAEUS, 1758  
(= *Stolidia* JOUSSEAUME, 1884-a; *Derstolidia* IREDALE, 1935)

G1195 *B. stolidia* (LINNAEUS, 1758)

(= *Cypraea rubiginosa* GMELIN, 1791; *C. draco* RÖDING, 1798; *C. crossei* MARIE, 1869; *C. brevidentata* SOWERBY, 1870; *C. gelasima* MELVILL, 1888; *C. stolidia* var. *moniontha* MELVILL, 1888; *C. stolidia* var. *diauges* MELVILL, 1888; *C. irvinaeae* COX, 1889; *Derstolidia fluctuans* IREDALE, 1935; *D. fluctuans deceptor* IREDALE, 1935; *B. stolidia thakau* STEADMAN & COTTON, 1943; *B. fluctuans nandronga* STEADMAN & COTTON, 1943)

Suso-yotsume-dakara

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to 10 m., under rocks or coral.
- Original genus: *Cypraea*.

G1196 *B. hirundo* (LINNAEUS, 1758)

(= *Cypraea neglecta* SOWERBY, 1837; *C. parvula* PHILIPPI, 1849; *C. rouxi* ANCEY, 1882; *C. hirundo francisca* SCHILDER & SCHILDER, 1938; *Evenaria hirundo cameroni* IREDALE, 1939; *E. h. peropima* IREDALE, 1939; *E. h. korolevu* STEADMAN & COTTON, 1943; *B. h. neglecta sensu* KIRA, 1962 *err. pro - ecta*)

Saba-dakara

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, southern Kyūshū, ECP4-ECP2; Indo-Pacific.
- Habitat: subtidal to 20 m., under rocks or coral.
- Original genus: *Cypraea*.

G1197 *B. ursellus* (GMELIN, 1791)

(= *Cypraea coffea* SOWERBY, 1870; *B. (Derstolidia) ursellus amoeba* SCHILDER & SCHILDER, 1938)

Hon-saba-dakara

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P11, Ogasawara islands, P5, southern Kyūshū, ECP4-ECP2, P2; Philippines, western Pacific.
- Habitat: subtidal to 20 m., under coral.
- Original genus: *Cypraea*.

G1198 *B. kieneri* (HIDALGO, 1906)

(= *Cypraea hirundo* SOWERBY, 1837 *non* LINNAEUS, 1758; *Erronea (Stolidia) hirundo reductesignata* SCHILDER, 1924; *E. (Blasicrura) kieneri depriesteri* SCHILDER, 1933; *Blasicrura (Derstolidia) kieneri schneideri* SCHILDER & SCHILDER, 1938; *Evenaria ursellus marcia* IREDALE, 1939; *E. u. vitiensis* STEADMAN & COTTON, 1943; *Bistolida kieneri landeri* SCHILDER & SCHILDER, 1962)

Nise-saba-dakara

- Type locality: 'en el Mar Rojo y en la isla Duke of York, Polinesia' (Red Sea and Duke of York island, Polynesia).
- Distribution: Kii peninsula and southwards, P11, Ogasawara islands, P5, southern Kyūshū, ECP4-ECP2; Indo-Pacific.
- Habitat: intertidal to 10 m., under rocks; coral reefs.
- Original genus: *Cypraea*.

Subfamily ADUSTINAE STEADMAN & COTTON, 1946

□ Genus *Adusta* JOUSSEAUME, 1884-a

Type species: *Cypraea onyx* LINNAEUS, 1758

G1199 *A. onyx* (LINNAEUS, 1758)

(= *Cypraea succincta* LINNAEUS, 1758; *C. pulla* GMELIN, 1791; *C. prunus* RÖDING, 1798; *C. adusta* LAMARCK, 1820; *C. umbilicata* DILLWYN, 1823; *C. nymphae* JAY, 1850; *C. carnicolor* MÖRCH, 1852; *Erronea (Adusta) onyx melanesiae* SCHILDER, 1937)

Kuchiguro-kinuta

- Type locality: 'in Asia'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2; Indo-western Pacific.
- Habitat: subtidal to 100 m., mud among rocks, coral reefs.
- Original genus: *Cypraea*.

G1200 *A. walkeri* (SOWERBY II, 1832 in 1832-41)

(= *Cypraea amabilis* JOUSSEAUME, 1881; *Gratiadusta walkeri continens* IREDALE, 1935; *Erronea (Adusta) walkeri surabajensis* SCHILDER, 1937; *Gratiadusta walkeri merista* IREDALE, 1939)

Ruri-guchi-dakara

- Type locality: Persian Gulf.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2; Indo-western Pacific.
- Habitat: intertidal to 10 m., coral reefs.
- Original genus: *Cypraea*.

G1201 *A. porteri porteri* (CATE, 1966)

(= *A. porteri joycae* CLOVER, 1970)

Aseyake-dakara (= Yawahada-dakara)

- Type locality: Manubul island, Philippines; 48 ft., at cave entrance.
- Distribution: Kii peninsula (Tsui, Inami-cho; off Cape Kirime; off Sakai; off Cape Yuzaki KOYAMA, 1993), Okinawa islands (Okinawa, 100 m.; Miyakojima, 200 m. ŌMI, 1998-a); Philippines, Solomon islands, New Caledonia, Australia.
- Habitat: 70-120 m.
- Original genus: *Cypraea* (*Lyncina*).

□ Genus *Ficadusta* HABE & KOSUGE, 1966-b

Type species: *Cypraea pulchella* SWAINSON, 1823 (mt.)

G1202 *F. pulchella* (SWAINSON, 1823)

(= *Cypraea pericalles* MELVILL & STANDEN, 1904; *Erronea (Adesta) pulchella novaevbritanniae* SCHILDER & SCHILDER, 1937; *E. (A.) pulchella vayssieri* SCHILDER & SCHILDER, 1938)

Ichijiku-dakara

- Type locality: 'Sina' (China).
- Distribution: Kii peninsula (Gobō, Minabe) and southwards, P5, ECP3-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: 25-120 m., sand.
- Original genus: *Cypraea*.

G1203 *F. pyriformis* (GRAY, 1824)

(= *Cypraea smithi* SOWERBY, 1881; *C. kaiseri* KENYON, 1897; *Erronea carnicolor* PRESTON, 1909; *E. problematica* IREDALE, 1935)

Nashigata-dakara (= Inubiwa-dakara)

- Type locality: none designated.
- Distribution: P2; Taiwan and southwards, Philippines, Bay of Bengal, southwestern Pacific.
- Habitat: subtidal to 30 m., under coral on reefs.
- Original genus: *Cypraea*.

□ Genus *Nesiocypraea* AZUMA & KUOHARA, 1967

Type species: *Nesiocypraea midwayensis* AZUMA & KUOHARA, 1967

G1204 *N. midwayensis* AZUMA & KUOHARA, 1967

Akebono-dakara

- Type locality: off Midway island (possibly erroneous; see OKUTANI, 1975-a).
- Distribution: off Hachijō island (Izu islands).
- Habitat: 400-500m, coarse sand and stones, rubble.

G1205 *N. hungerfordi* (SOWERBY III, 1888)

(= *Cypraea kiiensis* ROBERTS, 1913; *Erronea coucomi* SCHILDER, 1965)

Hime-hara-dakara

- Type locality: Hong Kong.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, East China Sea, ECP4-ECP2, P2; Philippines, South China Sea.
- Habitat: 30-200 m., rocks.
- Original genus: *Cypraea*.

G1206 *N. lisetae* (KILBURN, 1975)

Ichimonji-chidori-dakara

- Type locality: Inhaca island and Ponta Zavora, Mozambique basin, east Africa.
- Distribution: P2; Taiwan and southwards, Philippines, Solomon islands, Madagascar.
- Habitat: 50-350 m., coarse sand and stones.
- Original genus: *Cypraea* (*Nesiocypraea*).

□ Genus *Hiraseadusta* SHIKAMA, 1971-a

Type species: *Schilderia sakuraii* HABE, 1970

G1207 *H. sakuraii* (HABE, 1970)

Sakurai-dakara

- Type locality: Seisa (Xisha) islands, South China Sea.
- Distribution: Izu islands and southwards, off Kii peninsula, P2, South China Sea; Philippines, tropical Pacific.
- Habitat: 50-200 m., sand.
- Original genus: *Schilderia*.

G1208 *H. hirasei* (ROBERTS, 1913)

(= *Cypraea queenslandica* SCHILDER, 1966)

Otome-dakara

- Type locality: Tanabe, Kii peninsula, central Honshū.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, East China Sea, P2; Philippines, Australia.
- Habitat: 70-260 m., sand.
- Original genus: *Cypraea*.

G1209 *H. langfordi* (KURODA, 1938-c)

(= *Cypraea (Schilderia) langfordi mortonensis* SCHILDER, 1965)

Nippon-dakara

- Type locality: Okinoshima, Kōchi prefecture, southwestern Shikoku.
- Distribution: Izu islands and westwards, P6-P5, EC5, ECP4-ECP2, East China Sea, P2; western Pacific, northern Australia.
- Habitat: 70-200m, rubble.
- Original genus: '*Erronea (Gratiadusta?)*'.

□ Genus *Kurodadusta* SHIKAMA, 1971-a

Type species: *Erronea teramachii* KURODA, 1938

G1210 *K. teramachii* (KURODA, 1938-c)

Teramachi-dakara

- Type locality: off Kii peninsula, central Honshū (Wakayama prefecture).
- Distribution: Izu islands and westwards, P6-P5, southern Shikoku, EC5, East China Sea, ECP4-ECP2, P2; Philippines.
- Habitat: 150-250 m., rubble.
- Original genus: '*Erronea* (*Zoila*?)'.

□ Genus *Palmadusta* IREDALE, 1930

Type species: *Cypraea clandestina* LINNAEUS, 1767

G1211 *P. clandestina* (LINNAEUS, 1767)

(= *Cypraea moniliaris* LAMARCK, 1810; *C. candida* PEASE, 1865; *C. clandestina* var. *passerina* MELVILL, 1888; *P. clandestina whitleyi* IREDALE, 1939; *P. clandestina extrema* IREDALE, 1939)

Kamisuji-dakara

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2; Indo-Pacific.
- Habitat: subtidal to 30 m., sand pockets in coral reefs.
- Original genus: *Cypraea*.

G1212 *P. artuffeli* (JOUSSEAUME, 1876)

(= *Cypraea clandestina sensu* IWAKAWA, 1900-05)

Cha-iro-kinuta

- Type locality: Japan.
- Distribution: northeastern Honshū (Yamada bay SHIMIZU *et al.*, 1987) and southwards, P8-P5, EC5, Japan Sea (Oga peninsula, J3-J1), Ogasawara islands, ECP4-ECP2, P2; Korea.
- Habitat: intertidal to 20 m., rubble.
- Original genus: *Cypraea*.

G1213 *P. contaminata* (SOWERBY I, 1832 in 1832-41)

(= *P. (P.) contaminata distans* SCHILDER & SCHILDER, 1938; *P. (P.) contaminata malaysiae* SCHILDER & SCHILDER, 1940)

Kuroshio-dakara

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, Izu islands, P7-P5, EC5, ECP4-ECP2; Indo-western Pacific.
- Habitat: 50-100 m., rubble.
- Original genus: *Cypraea*.

G1214 *P. saulae* (GASKOIN, 1843)

(= *P. saulae nugata* IREDALE, 1935; *Cypraea jenostergaardi* INGRAM, 1939; *P. saulae siasiensis* CATE, 1960)

Suzuki-dakara (= Kimusume-dakara)

- Type locality: Corregidor, Philippines.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, western Pacific, northern Australia.

- Habitat: subtidal to 100 m., coral reefs.

- Original genus: *Cypraea*.

G1215 *P. lutea* (GMELIN, 1791)

(= *Cypraea lutea* GRONOVIVUS, 1758 *auct.*; *C. humphreysii* GRAY, 1825 in 1825-28; *C. nivea* WOOD, 1828 in 1818-28; *P. bizonata sensu* IREDALE, 1935) Kaba-hoshi-dakara

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, Izu islands, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2; western Pacific, northern Australia.
- Habitat: subtidal to 200 m., gravel or on coral reefs.
- Original genus: *Cypraea*.

G1216 *P. ziczac* (LINNAEUS, 1758)

(= *Cypraea undata* LAMARCK, 1810; *C. misella* PERRY, 1811; *C. vittata* DESHAYES, 1831; *P. ziczac signata* IREDALE, 1939)

Sumi-nagashi-dakara (= Ajiro-dakara)

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2; Indo-Pacific.
- Habitat: subtidal to 100 m., at margins of coral reefs.
- Original genus: *Cypraea*.

□ Genus *Cribrarula* STRAND, 1929

Type species: *Cypraea cribraria* LINNAEUS, 1758

(= *Cribraria* JOUSSEAUME, 1884-a (invalid); *Ocellaria* WEINKAUFF, 1881)

G1217 *Cribrarula cribraria* (LINNAEUS, 1758)

(= *Cypraea comma* PERRY, 1811; *Cyp. fallax* E. A. SMITH, 1881; *Cyp. cribraria* var. *exmouthensis* MELVILL, 1888; *Nivigena melwardi* IREDALE, 1930; *Cribraria zadela* IREDALE, 1939; *Crib. cribraria orientalis* SCHILDER & SCHILDER, 1940; *Crib. northi* STEADMAN & COTTON, 1943)

Kanoko-dakara

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, EC5, ECP4-ECP2; Indo-Pacific.
- Habitat: subtidal to 20 m., under rocks on coral reefs.
- Original genus: *Cypraea*.

Subfamily NARIINAE SCHILDER, 1932

□ Genus *Paulonaria* IREDALE, 1930

Type species: *Cypraea beckii* GASKOIN, 1836 (o. d.)

G1218 *P. beckii* (GASKOIN, 1836)

Juzudama-dakara

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, central to western Pacific.
- Habitat: subtidal to 50 m., coral reefs.
- Original genus: *Cypraea*.

□ Genus *Evenaria* IREDALE, 1930

Type species: *Cypraea asellus* LINNAEUS, 1758 (o. d.)

G1219 *E. asellus* (LINNAEUS, 1758)

(= *Cypraea striatella* LINK, 1807; *C. bitaeniata* GERET, 1903; *C. vespacea* MELVILL, 1905; *C. bougei* DAUTZENBERG, 1906; *Adusta asellus latefasciata* SCHILDER, 1930; *E. asellus kawakawa* STEADMAN & COTTON, 1943)

Uki-dakara

- Type locality: 'in Maldivis' (Maldive islands).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2; Indo-Pacific.
- Habitat: intertidal to 20 m., under rocks on coral reefs.
- Original genus: *Cypraea*.

□ Genus *Notadusta* SCHILDER, 1935

Type species: *Notadusta victoriana* SCHILDER, 1935

G1220 *N. punctata* (LINNAEUS, 1771)

(= *Cypraea atomaria* GMELIN, 1791; *C. stercusmuscarum* LAMARCK, 1810; *C. decolorata* GRAY, 1824; *C. trizonata* SOWERBY, 1870; *C. punctata* (sic) sensu SUGITANI, 1927; *Palmadusta punctata iredalei* SCHILDER & SCHILDER, 1938; *Evenaria persistica* IREDALE, 1939; *E. carula* IREDALE, 1939)

Gomafu-dakara

- Type locality: none designated.
- Distribution: Kii peninsula (Cape Shio) and southwards, P5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: subtidal to 20 m., under rocks or on coral reefs.
- Original genus: *Cypraea*.

G1221 *N. katsuae* (KURODA, 1960)

(= *N. vicdani* LAN, 1985)

Hime-dakara (= Ran-hime-dakara)

- Type locality: Okinawa, 80 m.
- Distribution: Izu islands and westwards, Kii peninsula, southern Shikoku, ECP4-ECP2, P2; Philippines.
- Habitat: 50-200 m., sand.
- Original genus: *Erronea* (*Gratiadusta*).

G1222 *N. musumea* KURODA & HABA, 1961

Ubu-dakara

- Type locality: off Cape Ashizuri, Kōchi prefecture, southwestern Shikoku; ± 100 m.
- Distribution: Izu islands and westwards, Kii peninsula (Wakayama prefecture), southern Shikoku; Taiwan.
- Habitat: 50-300 m., sand.

G1223 *N. martini* (SCHEPMAN, 1907)

(= *Adusta martini superstes* SCHILDER, 1930)

Iguchi-dakara (= Maruchin-dakara)

- Type locality: Kajoe ragi, Celebes (Sulawesi) island, Indonesia (fossil).
- Distribution: Okinawa (off Manzamo, 30-35 m.);

Philippines, central Pacific.

- Habitat: 30-50 m., coral reefs.
- Original genus: *Cypraea*.

G1224 *N. rabaulensis* SCHILDER, 1964

Rabauru-dakara

- Type locality: Rabaul, Papua New Guinea.
- Distribution: Kii peninsula (Minabe), Ogasawara islands (Minamijima, 200 m.) and Okinawa prefecture (Miyako island, 50 m.) (ŌMI, 1998-b); 'Philippines to Melanesia' (LORENZ & HUBERT, 1993).
- Habitat: 15-200 m., rocks and coral.

□ Genus *Purpuradusta* SCHILDER, 1939

Type species: *Cypraea fimbriata* GMELIN, 1791

(= *Cupinota* IREDALE, 1939; *Opponaria* IREDALE, 1939)

Subgenus *Purpuradusta* s. str.

G1225 *P. (P.) fimbriata* (GMELIN, 1791)

(= *Cypraea marmorata* SCHRÖTER, 1804; *C. unifasciata* MIGHELS, 1845; *C. (Erronea) fimbriata minoridens sensu* KURODA, 1928; *Palmadusta waikikiensis* SCHILDER, 1933; *Palmadusta (Melicerona) fimbriata durbanensis* SCHILDER & SCHILDER, 1938)

Tsuma-murasaki-medakara

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, EC5, ECP4-ECP2; Indo-Pacific.
- Habitat: subtidal to 10 m., rubble.
- Original genus: *Cypraea*.

G1226 *P. (P.) minoridens* (MELVILL, 1901)

(= *Cypraea microdon* SOWERBY, I 1832 non GRAY, 1828; *C. fimbriata* GARRETT, 1879 non GMELIN, 1791; *Paulonaria minoridens suavensis* STEADMAN & COTTON, 1943)

Tsuma-beni-medakara

- Type locality: none designated (SOWERBY I, 1832)
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2; western Pacific, Samoa.
- Habitat: intertidal to 10 m., sand near coral reefs.
- Original genus: *Cypraea*.

G1227 *P. (P.) gracilis* (GASKOIN, 1848)

(= *Cypraea fimbriata* SOWERBY, 1837 non GMELIN, 1791; *C. notata* GILL, 1858; *C. macula* ANGAS, 1867; *C. iriscens* SOWERBY, 1870; *C. macula* var. *cholmondeleyi* MELVILL, 1888; *C. interpunctata* HENN, 1896; *Erronea fimbriata subcoerulea* SCHILDER & SCHILDER, 1931; *E. japonica* SCHILDER, 1931; *Cupinota macula hilda* IREDALE, 1939; *E. stohleri* CATE & SCHILDER, 1968)

Medakara (= Hon-medakara; Tsuma-guro-medakara)

- Type locality: Mauritius.
- Distribution: northeastern Honshū (Yamada bay



SHIMIZU *et al.*, 1987), Kii peninsula, Japan Sea (J4-J1), Amami islands and southwards, ECP3-ECP2, P2; Philippines, western Pacific.

- Habitat: intertidal to 10 m. on coral reefs.
- Original genus: *Cypraea*.

G1228 *P. (P.) microdon* (GRAY, 1828-b)

(= *Cypraea chrysalis* KIENER, 1843; *Palmadusta (Melicerona) microdon granum* SCHILDER & SCHILDER, 1938; *Palmadusta katha* IREDALE, 1939) Hina-medakara

- Type locality: 'Indian Ocean' (Stutchbury collection).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-western Pacific.
- Habitat: intertidal to 10 m., coral reefs.
- Original genus: *Cypraea*.

□ Genus *Melicerona* IREDALE, 1930

Type species: *Cypraea felina* GMELIN, 1791

G1229 *M. felina* (GMELIN, 1791)

(= *Cypraea lineata* GMELIN, 1791; *C. gibbosa* GRAY, 1824 non SCHRÖTER, 1804; *C. listeri* GRAY, 1825 in 1825-28; *C. ursellus* KIENER, 1843; *C. fabula* KIENER, 1843; *C. cylindrica sensu* IWAKAWA, 1900-05; *C. melvilli* HIDALGO, 1906; *Palmadusta (Melicerona) felina pauciguttata* SCHILDER & SCHILDER, 1938; *M. melvilli velesia* IREDALE, 1939; *M. pallidaeformis* BIRAGHI, 1987)

Kuro-dakara (= Kasumi-dakara)

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Tajima, Hyōgo prefecture; J2-J1), EC5, ECP4-ECP2; Indo-western Pacific.
- Habitat: intertidal to 20 m., under rocks or coral.
- Original genus: *Cypraea*.

Subfamily MAURITIINAE SCHILDER, 1936

□ Genus *Mauritia* TROSCHER, 1863

Type species: *Cypraea mauritiana* LINNAEUS, 1758 (= *Maurina* JOUSSEAUME, 1884-a; *Mauxenia* JOUSSEAUME, 1884-a)

Subgenus *Mauritia s. str.*

G1230 *M. (M.) mauritiana* (LINNAEUS, 1758)

(= *Cypraea nebulosa* LIGHTFOOT, 1786; *C. regina*, *trifasciata*, *venerea*, *turbinata*, *undulata*, all GMELIN, 1791; *C. castanea* RÖDING, 1798; *C. paschalis* RÖDING, 1798; *C. fuliginosa* PERRY, 1811; *C. adansoni* BLAINVILLE, 1825; *C. calxequina* MELVILL & STANDEN, 1899; *C. atra* DAUTZENBERG, 1903; *C. albiflora* PETRBOK, 1932; *M. cinerea* BOUGE, 1961) Hachijō-dakara

- Type locality: 'in Mauritio' (Mauritius).
- Distribution: Kii peninsula and southwards, P11,

Ogasawara islands, Tanegashima & Yakushima, P5, ECP4-ECP2, P2; Philippines, Indo-Pacific.

- Habitat: subtidal to 30 m., under coral.
- Original genus: *Cypraea*.

**Notes:** Linnaeus added 'Java' to the locality in 1767.

Subgenus *Arabica* JOUSSEAUME, 1884-a

Type species: *Cypraea arabica* LINNAEUS, 1758

G1231 *M. (A.) arabica* (LINNAEUS, 1758)

(= *Cypraea fragilis* LINNAEUS, 1758; *C. canaliculata* RÖDING, 1798; *C. arabica* var. *intermedia* GRAY, 1824; *C. prasina* SHAW, 1909; *C. albina* SULLIOTTI, 1924; *C. induta* SULLIOTTI, 1924; *C. splendens* GYNGELL, 1924 non TAYLOR, 1916; *M. (Arabica) arabica asiatica*, *dilacerata*, *immanis*, all SCHILDER & SCHILDER, 1939; *M. (Arabica) arabica brunnescens* CATE, 1964)

Yakujima-dakara

- Type locality: 'in India orientali, ad Fretam Sunda' (Sunda strait, Indonesia).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (J1), EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to 20 m., under rocks or coral.
- Original genus: *Cypraea*.

G1232 *M. (A.) depressa* (GRAY, 1824)

(= *Cypraea intermedia* REDFIELD, 1847 (*pars*); *C. gillei* JOUSSEAUME, 1893; *C. reticulata sensu* IWAKAWA, 1900-05; *M. (A.) depressa dispersa* SCHILDER & SCHILDER, 1939)

Hime-yakujima

- Type locality: 'Oceania'.
- Distribution: Ogasawara islands and westwards, P11, Kii peninsula (Cape Shio), ECP3-ECP2; Indo-Pacific.
- Habitat: intertidal to 20 m., coral reefs.
- Original genus: *Cypraea*.

G1233 *M. (A.) maculifera* SCHILDER, 1932 in 1930-32

(= *Cypraea reticulata* MARTYN, 1784 (invalid: ICZN op. 456); *C. maculata* BOURNES, 1823 non PERRY, 1811) Kikko-dakara

- Type locality: none designated (*nomen novum* for *C. reticulata* Martyn; article cites material from the southern Marianas).
- Distribution: Ogasawara islands and westwards, P11, ECP3-ECP2, P2; Philippines, central Pacific.
- Habitat: subtidal to 20 m., rocks or coral reefs.

G1234 *M. (A.) eglantina* (DUCLOS, 1833)

(= *Cypraea nigricans* CROSSE, 1869; *C. niger* ROBERTS, 1885; *C. luctuosa* DAUTZENBERG, 1903; *C. couturieri* VAYSSIÈRE, 1905; *Arabica perconfusa* IREDALE, 1935; *A. eglantina monokiti* STEADMAN & COTTON, 1943)

Hoso-yakujima

- Type locality: 'Californie' (erroneous).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2; central and western Pacific.
- Habitat: subtidal to 20 m., rocks.
- Original genus: *Cypraea*.

G1235 *M. (A.) scurra* (GMELIN, 1791)

(= *Cypraea indica* GMELIN, 1791; *C. retifera* MENKE, 1829; *C. amarata* MÖRCH, 1852; *C. standeni* MELVILL, 1905; *M. nigella* SCULLIOTTI, 1924; *M. viridosa* SULLIOTTI, 1924)

Amime-dakara

- Type locality: 'in mari Indico'.
- Distribution: Ogasawara islands and westwards, P11, Kii peninsula (Cape Shio), P5, ECP4-ECP2; Indo-Pacific.
- Habitat: 6-10 m., on top of coral reefs.
- Original genus: *Cypraea*.

Subfamily **EROSARIINAE SCHILDER, 1924**

□ Genus ***Erosaria* TROSCHER, 1863**

Type species: *Cypraea erosa* LINNAEUS, 1758  
(= *Perisserosa* IREDALE, 1930)

G1236 *E. erosa* (LINNAEUS, 1758)

(= *Cypraea oculata* RUMPHIUS auct.; *C. similis* GMELIN, 1791; *C. albopunctata* FISCHER, 1807; *C. fasciata* PERRY, 1811; *C. baltheata* DILLWYN, 1823; *C. erosa* var. *phagedaina*, var. *chlorizans*, var. *straminea*, all MELVILL, 1888; *C. kauilani* KENYON, 1900; *C. protracta* DAUTZENBERG, 1906; *C. galbula* TAYLOR, 1916; *C. palleus* TAYLOR, 1916; *C. kaolinica* VREDENBURG, 1919; *C. purissima* VREDENBURG, 1919; *C. perlacea* SULLIOTTI, 1924; *E. lactescens* DAUTZENBERG & BOUGE, 1933; *E. marginata*, *diaphana*, *pulchella*, all COEN, 1949)

Komon-dakara

- Type locality: 'in Mauritio et insula Adcensionis' (Mauritius and Ascension island).
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2; Indo-western Pacific.
- Habitat: subtidal to 30 m., rocks.
- Original genus: *Cypraea*.

G1237 *E. miliaris* (GMELIN, 1791)

(= *Cypraea lamarckii* var. *inocellata* GRAY, 1825 in 1825-28; *C. miliaris* var. *magistra* MELVILL, 1888; *C. diversa* KENYON, 1902; *C. brookei* ROUS, 1905; *C. brevis* E. A. SMITH, 1913; *C. gabrieli* GATLIFF, 1916; *E. (E.) miliaris differens* SCHILDER, 1927-a; *E. gabrielana* GATLIFF, 1929; *E. miliaris metavona* IREDALE, 1935; *E. miliaris effosa* SCHILDER, 1937; '*E. migistra*' (sic) sensu KURODA & HABE, 1952-a; '*E. magistra* var. ?*differens*'

sensu KURODA & HABE, 1952-a)

Hatsuyuki-dakara (= Nishibata-dakara)

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2; Indo-western Pacific.
- Habitat: subtidal to 30 m., rocks.
- Original genus: *Cypraea*.

G1238 *E. guttata azumai* SCHILDER, 1960

Hon-kuroyuri-dakara

- Type locality: Okezoko (sea area), off southwestern Shikoku.
- Distribution: off Kii peninsula (SHIKAMA, 1961) and southwards, western Kyūshū, ECP4-ECP2.
- Habitat: 50-250 m., in coarse sand and stones or on coral reefs.

G1239 *E. boivini* (KIENER, 1843 in 1834-80)

(= *Cypraea gangranosa* var. *amoena* SCHILDER, 1927; *E. cuatoni* KOSUGE, 1983)

Omina-eshi-dakara (= Chichi-kake-nashiji-dakara)

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2; western Pacific.
- Habitat: intertidal to 20 m., rocks and coral reefs.
- Original genus: *Cypraea*.

G1240 *E. labrolineata* (GASKOIN, 1849-a)

(= *Cypraea flaveola* GRAY, 1825 in 1825-28 non LINNAEUS, 1758; *C. helenae* ROBERTS, 1869; *E. labrolineata nashi* IREDALE, 1931; *E. labrolineata maccullochi* IREDALE, 1939; *E. helenae nasese* STEADMAN & COTTON, 1943)

Nashiji-dakara

- Type locality: none designated (Saul & Cuming collections).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2; central and western Pacific.
- Habitat: subtidal to 150 m., rocks and coral reefs.
- Original genus: *Cypraea*.

G1241 *E. cernica* (SOWERBY II, 1870)

(= *E. cernica tomlini* SCHILDER, 1930; *E. labrolineata percomis* IREDALE, 1931; *E. tomlini progida* IREDALE, 1939; *E. cernica ogasawaraensis* SCHILDER, 1944; *E. tomlini* var. sensu KURODA & HABE, 1952-a; *E. kermadecensis* POWELL, 1958; *E. tomlini maturata* KIRA, 1959-a; *E. cernica marielae* CATE, 1960; *E. cernica viridicolor* CATE, 1962)

Umi-nashiji-dakara

- Type locality: east Africa.

- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, western Japan Sea (northern Yamaguchi prefecture HOSAKA *et al.*, 1996, J1), EC5, ECP4-ECP2; Indo-Pacific.
- Habitat: intertidal to 20 m., sand bottom or on coral reefs.
- Original genus: *Cypraea*.

G1242 *E. poraria* (LINNAEUS, 1758)

(= *Cypraea coeca* RÖDING, 1798; *C. scarabeus* BORY, 1827; *C. kauaiensis* MELVILL, 1888; *C. albinella* MELVILL & STANDEN, 1895; *C. wilhelmina* KENYON, 1897; *C. vibex* KENYON, 1902; *E. insignis* DAUTZENBERG, 1903; *E. poraria theolata* IREDALE, 1939)

Ayame-dakara

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, P11, Ogasawara islands, Japan Sea (Tajima, Hyōgo prefecture; J2-J1), EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal, rocks and coral reefs.
- Original genus: *Cypraea*.

G1243 *E. helvola* (LINNAEUS, 1758)

(= *Cypraea striata*, *badia*, *cancellata*, *stellata*, all GMELIN, 1791; *C. australis* SCHRÖTER, 1804; *C. argusculus* SCHRÖTER, 1804; *C. chaledonica* PERRY, 1811; *C. helvola* var. *mascarena*, var. *argella*, var. *hawaiiensis*, all MELVILL, 1888; *C. timorensis* KENYON, 1902; *C. borneensis* KENYON, 1902; *C. aphrodite* ROUS, 1905; *C. callista* SHAW, 1909; *C. gareti* VAYSSIÉRE, 1910; *E. agassizi* LADD, 1934; *E. helvola citrinicolor* IREDALE, 1935; *E. helvola meridionalis* SCHILDER & SCHILDER, 1938)

Kamon-dakara

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2; Korea (Cheju island), Indo-Pacific.
- Habitat: intertidal, rocks and coral reefs.
- Original genus: *Cypraea*.

□ Genus *Ravitriona* IREDALE, 1930

Type species: *Cypraea caputserpentis* LINNAEUS, 1758

G1244 *R. caputserpentis* (LINNAEUS, 1758)

(= *Cypraea mauritiana* PETIVIER, 1701 *nom. nud.*; *C. reticulum* GMELIN, 1791; *C. bandata* PERRY, 1811; *C. albella* LAMARCK, 1822 in 1815-22; *C. caputanguis* PHILIPPI, 1849; *C. caputcolubri* KENYON, 1898; *C. candidata* SULLIOTTI, 1924; *Erosaria (Ocellaria) caputophidii* SCHILDER, 1927; *C. argentata* DAUTZENBERG & BOUGE, 1933; *E. (Ravitriona) caputserpentis mikado* SCHILDER & SCHILDER, 1938; *E. (R.) caputserpentis kenyonae* SCHILDER &

SCHILDER, 1938; *E. (R.) albosignata* COEN, 1949) Hana-maruyuki (= Hon-hana-maruyuki)

- Type locality: 'in Mauritio' (Mauritius).
  - Distribution: Bōsō peninsula and southwards, P7-P5, P11, Ogasawara islands, Japan Sea (Yamagata prefecture and southwards, J3-J1), EC5, Amami islands and southwards, ECP3-ECP2; Indo-Pacific.
  - Habitat: intertidal to 20 m., rocks and coral reefs.
  - Original genus: *Cypraea*.
- Notes: see IRIE, T. (1997).

□ Genus *Monetaria* TROSCHEL, 1863

Type species: *Cypraea moneta* LINNAEUS, 1758

(= *Aricia* BRODERIP, 1837)

Subgenus *Monetaria s. str.*

G1245 *M. (M.) moneta moneta* (LINNAEUS, 1758)

(= *Cypraea monetacongo* GMELIN, 1791; *C. numisma* RÖDING, 1798; *C. gibbosa* SCHRÖTER, 1804; *C. icterina* LAMARCK, 1810; *C. tuberculosa* QUOY & GAIMARD, 1834; *C. barthelemyi* BERNARDI, 1861; *C. marginata* KIESEWETTER, 1872; *C. mercatorium*, *ethnographica*, *vestimenti*, *pleuronectes*, all ROCHEBRUNE, 1884; *C. chionella* SULLIOTTI, 1924; *M. britannica* SCHILDER, 1928; *M. circumvallata*, *subalata*, *rhomboides*, all SCHILDER & SCHILDER, 1933; *M. candida* DAUTZENBERG & BOUGE, 1933; *M. monetoides* IREDALE, 1939; *M. monetoides harrisi* IREDALE, 1939; *M. monetoides isomeres* IREDALE, 1939; *M. moneta edusa*, *erua*, *etolu*, all STEADMAN & COTTON, 1943; *M. bulgarica* KOJUMDIEVA, 1960) Ki-iro-dakara (= Fushidaka-ki-iro-dakara; Mengata-dakara)

- Type locality: 'ad Africam, in M. Mediterraneo' (LINNAEUS, 1757); 'ad Africam, in M. Mediterraneo; Alexandriae; imprimis in Maldivis' (LINNAEUS, 1767). See DODGE, 1953 in 1952-59.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2; Korea, Indo-Pacific.
- Habitat: intertidal, rocks, coarse sand and stones, rubble.
- Original genus: *Cypraea*.

Subgenus *Ornamentaria* SCHILDER & SCHILDER, 1936

Type species: *Cypraea annulus* LINNAEUS, 1758 (o. d.)

G1246 *M. (O.) annulus* (LINNAEUS, 1758)

(= *Cypraea annularis* PERRY, 1811; *C. coerulea* PERRY, 1811; *C. annulata* DONOVAN, 1820; *C. annulifera* CONRAD, 1866; *C. noumeensis* MARIE, 1869; *C. camelorum* ROCHEBRUNE, 1884; *C. harmandiana* ROCHEBRUNE, 1884; *C. calcarata* MELVILL, 1888; *C. tectoriata* SULLIOTTI, 1924; *M. sosokana* LADD, 1934;

*M. (O.) annulus scutellum* SCHILDER & SCHILDER, 1937; *M. annulus dranga* IREDALE, 1939)

Hanabira-dakara

- Type locality: 'ad Amboinam' (Ambon island, Indonesia).
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2; Korea, Indo-Pacific.
- Habitat: intertidal to 20 m., coarse sand and stones, rocks.
- Original genus: *Cypraea*.

**Notes:** Linnaeus added 'Alexandriae' (Alexandria, Egypt) to the locality in 1767.

Subfamily **CYPRAEINAE RAFINESQUE, 1815**

□ Genus ***Cypraea* LINNAEUS, 1758**

Type species: *Cypraea tigris* LINNAEUS, 1758

(= *Porcellana* HUMPHREY, 1797; *Cypriarius* DUMÉRIL, 1806; *Tigris* TROSCHER, 1863; *Erythraea* MÖRCH, 1884; *Vulpicella* COSSMANN, 1884; *Vulgusella* JOUSSEAUME, 1884-a)

G1247 ***C. tigris* LINNAEUS, 1758**

(= *Cypraea ambigua*, *feminea*, *flammea*, *tigrina*, all GMELIN, 1791; *C. pardalis* SHAW, 1795; *C. onca* RÖDING, 1798; *C. nigrescens* GRAY, 1824; *C. chionia*, *flavonitens*, *hinnula*, *ionthodes*, *russonitens*, *zymerasta*, *tigris* var. *lyncichroa*, all MELVILL, 1888; *C. flavida* DAUTZENBERG, 1893; *C. incana*, *laminata*, *tristis*, *tuberculifera*, all SULLIOTTI, 1924; *C. nephelodes* LANCASTER, 1928; *C. tigris volai* STEADMAN & COTTON, 1943; *C. tigris amboolee* STEADMAN & COTTON, 1943; *C. fuscoapicata* COEN, 1949; *C. tigris schilderiana* CATE, 1961)

Hoshi-dakara

- Type locality: 'in Madagascar'.
- Distribution: Ogasawara islands and westwards, P11, Kii peninsula and southwards, P5, western Japan Sea (Yamaguchi prefecture, J1), ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to 10 m., rocks and coral reefs.

**Notes:** Linnaeus added 'Java' to the locality in 1767.

□ Genus ***Lyncina* TROSCHER, 1863**

Type species: *Cypraea lynx* LINNAEUS, 1758

(= *Prolyncina* SCHILDER, 1927)

Subgenus ***Lyncina* s. str.**

G1248 ***L. (L.) lynx* (LINNAEUS, 1758)**

(= *Cypraea vanelli* LINNAEUS, 1758; *C. leucostoma*, *punctulata*, *squalina*, *subflava*, all GMELIN, 1791; *C. cruenta* RÖDING, 1798; *C. ferruginosa* FISCHER, 1807; *C. caledonica* CROSSE, 1869; *C. lynx* var. *williamsi* MELVILL, 1888; *C. globosa* DAUTZENBERG, 1903; *C. michaelis* MELVILL, 1905; *C. incassata* DAUTZENBERG, 1929; *L. lynx pacifica* STEADMAN &

COTTON, 1943; *L. javana* COEN, 1949)

Hime-hoshi-dakara (= Yamaneko-dakara)

- Type locality: 'ad Madagascar'.
- Distribution: Ogasawara islands and westwards, P11, Kii peninsula and southwards, P5, western Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2; Indo-Pacific.
- Habitat: subtidal to 20 m., rocks and coral reefs.
- Original genus: *Cypraea*.

Subgenus ***Ponda* JOUSSEAUME, 1884-a**

Type species: *Cypraea ventriculus* LAMARCK, 1810

G1249 ***L. (P.) ventriculus* (LAMARCK, 1810)**

(= *Cypraea achatina* PERRY, 1811; *C. otahitensis* SCHUBERT & WAGNER, 1829; *Ponda ventriculus topea* STEADMAN & COTTON, 1943)

Fusube-dakara (= Kinkan-dakara)

- Type locality: *Asia*.
- Distribution: Ogasawara islands (Chichijima; Minami Torishima FUKUDA, 1993); Taiwan, central Pacific.
- Habitat: 5-20 m., coral reefs.
- Original genus: *Cypraea*.

G1250 ***L. (P.) carneola* (LINNAEUS, 1758)**

(= *Cypraea crassa* GMELIN, 1791; *C. aureola* SCHILDER, 1804; *C. sowerbyi* ANTON, 1839; *C. (Luponia) propinqua* GARRETT, 1879; *C. loebbeckeana* WEINKAUFF, 1881; *C. halmaja* MELVILL, 1888; *C. rubiola* KENYON, 1902; *C. adonis* ROUS, 1905; *C. tuberculigera* SULLIOTTI, 1924; *Ponda carneola thepalea* IREDALE, 1939; *Lyncina titan* SCHILDER & SCHILDER, 1962)

Kuchi-murasaki-dakara

- Type locality: 'in Asia'.
- Distribution: Bōsō peninsula and southwards, P7-P5, western Japan Sea (northern Yamaguchi prefecture), EC5, ECP4-ECP2, P2; Philippines. Indo-Pacific.
- Habitat: subtidal to 20 m., coral reefs.
- Original genus: *Cypraea*.

G1251 ***L. (P.) sulcidentata* (GRAY, 1824)**

(= *Cypraea xanthochrysa* MELVILL, 1888)

Kawamura-dakara

- Type locality: Hawaiian islands.
- Distribution: Okinawa and southwards; Taiwan, Hawaii.
- Habitat: intertidal to 40 m., under coral slabs.
- Original genus: *Cypraea*.

G1252 ***L. (P.) schilderorum* (IREDALE, 1939)**

(= *Cypraea areonosa* GRAY, 1824 non DILLWYN, 1823) Okinawa-dakara

- Type locality: none designated.
- Distribution: Ogasawara islands (Minami-torishima FUKUDA, 1993), Kii peninsula (Susami MAEIWA, 1984;

Cape Shio), southern Shikoku, East China Sea, ECP3-ECP2; central Pacific to Hawaii.

- Habitat: 100-150 m. (Japan); 10-30 m. (Tropical), in coral reefs.

- Original genus: *Ponda*.

G1253 *L. (P.) kuroharai* (KURODA & HABE, 1961)

Kurohara-dakara

- Type locality: Okinoshima, Kōchi prefecture, southwestern Shikoku; ± 50 m., on coral
- Distribution: off Bōsō peninsula, off Kii peninsula, southern Shikoku, Amami islands; Taiwan, China.
- Habitat: 100-300 m., rocks and coral.
- Original genus: *Ponda*.

Subgenus *Mystoponda* IREDALE, 1930

Type species: *Cypraea vitellus* LINNAEUS, 1758 (o. d.)

G1254 *L. (M.) vitellus* (LINNAEUS, 1758)

(= *Cypraea dama* PERRY, 1811; *C. subfuscula* DILLWYN, 1827; *C. salita* ROBERTS, 1870; *C. vitellus* var. *sarcodes* MELVILL, 1888; *C. distorta* COX, 1889; *C. fergusonii* ROUS, 1905; *Mystoponda orcina* IREDALE, 1931; *C. (Lyncina) vitellus polynesiae* SCHILDER & SCHILDER, 1939)

Hoshi-kinuta (= Kuro-hoshi-kinuta)

- Type locality: not given in 1758; '*ad Sundam Asiae*' (Sunda islands, Indonesia) in 1767.
- Distribution: Ogasawara islands and westwards, P11, Bōsō peninsula and southwards, P7-P5, Japan Sea (Yamaguchi prefecture, J1), EC5, ECP4-ECP2; Korea, Indo-Pacific, New Zealand.
- Habitat: subtidal to 20 m., rocks and coral reefs.
- Original genus: *Cypraea*.

□ Genus *Leporicyprea* IREDALE, 1930

Type species: *Cypraea mappa* LINNAEUS, 1758

G1255 *L. mappa* (LINNAEUS, 1758)

(= *Cypraea alga* PERRY, 1811; *C. mappa* var. *rosea* GRAY, 1824; *C. montosa* ROBERTS, 1870; *C. mappa* var. *subsignata* MELVILL, 1888; *L. viridis* KENYON, 1902; *C. montrouzieri* DAUTZENBERG, 1903; *Mauritia mappa geographica* SCHILDER & SCHILDER, 1933; *L. mappa rewa* STEADMAN & COTTON, 1943; *L. cinereoviridescens* BOUGE, 1961)

Hara-dakara

- Type locality: '*in O. Africae*' (African seas).
- Distribution: Ogasawara islands (FUKUDA, 1993), Kii peninsula (KOYAMA, 1993), Amami islands and southwards, ECP3-ECP2; Indo-Pacific.
- Habitat: subtidal to 20 m., under coral on reefs.
- Original genus: *Cypraea*.

□ Genus *Callistocypraea* SCHILDER, 1927

Type species: *Cypraea aurantium* GMELIN, 1791

G1256 *C. aurantium* (GMELIN, 1791)

(= *Cypraea aurora* LAMARCK, 1810; *Callistocypraea aurantium turanga* STEADMAN & COTTON, 1943) Nan'yō-dakara (= Kogane-dakara)

- Type locality: '*ad insulas amicas*'.
- Distribution: Ogasawara islands (KIRA, 1946), Okinawa (off Cape Kyan, in caves H. KINJŌ, pers. comm.) and southwards, P2; Philippines, Polynesia.
- Habitat: 8-20 m., in coral fissures or caves.
- Original genus: *Cypraea*.

Family **OVULIDAE** FLEMING, 1822

Subfamily **EOCYPRAEINAE** SCHILDER, 1924

□ Genus *Pseudocypraea* SCHILDER, 1927

(Refs.: Cate, 1973-a; Liltved, 1989)

Type species: *Cypraea adamsonii* SOWERBY II, 1832 (o. d.)

G1257 *P. adamsonii* (SOWERBY I, 1832 in 1832-41)

Mugi-tsubu-dakara

- Type locality: 'Mauritius'.
- Distribution: Sagami bay and southwards, P11, Ogasawara islands, P6-P5, EC5, ECP4-ECP2; Indo-Pacific.
- Habitat: subtidal to 50 m., sand.
- Original genus: *Cypraea*.

Subfamily **OVULINAE** FLEMING, 1822

(Refs.: Cate, 1973; Mase, 1989)

□ Genus *Habuprionovolva* AZUMA, 1970

Type species: *Ovula hervieri* HEDLEY, 1899 (= *Galera* CATE, 1973-a non GRAY, 1842; *Galerovolva* CATE, 1973-b)

G1258 *H. hervieri* (HEDLEY, 1899-a)

(= *Prionovolva aenigma* AZUMA & CATE, 1971-a; *Galerovolva basilia* CATE, 1978-a)

Hina-kodama-usagi (= Kinoko-dama-usagi)

- Type locality: Funafuti atoll, Ellice islands (Tuvalu, Polynesia).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2; South Africa (LILTVED, 1989).
- Habitat: subtidal to 50 m., parasitic on *Dendronephthya gigantea*, *D. nipponica*, *D. acaulis*, *D. (Monobellana) pamitis* etc.
- Original genus: *Ovula*.

G1259 *H. nimbosea* (CATE, 1978-a)

Arashi-kamegata-kebori

- Type locality: Kii strait, off Wakayama prefecture, central Honshū; 70-90 m.
- Distribution: recorded only from type locality.
- Original genus: *Galerovolva*.

□ Genus *Testudovolva* CATE, 1973-a

Type species: *Testudovula orientis* CATE, 1973 (o. d.)

G1260 *T. orientis* CATE, 1973-a

(= *Prionovolva nipponensis* (*pars*) sensu HAMADA, 1992)

Kamegata-kebori

- Type locality: China Sea off Pratas island: 21° 00' N., 117° 00' E. on sand & shell bottom.
- Distribution: off Kii peninsula (Minabe), Kyūshū (Ōita prefecture; off Nagasaki City; off Ushibuka)
- Habitat: parasitic on *Alcynacea*; no further details known.

G1261 *T. nebula* (AZUMA & CATE, 1971-a)

(= *Prionovolva nipponensis* (*pars*) sensu HAMADA, 1992)

Kumori-kamegata-kebori

- Type locality: off Cape Kirime, Kii peninsula, central Honshū: 34° 00' N., 134° 48' E.
- Distribution: Kii peninsula and westwards, western Kyūshū (off Ushibuka; off Mogi; off Cape Nomo)
- Habitat: 30-100 m., parasitic on *Dendronephthya* (*Morchellana*) *habereri*.
- Original genus: *Prionovolva*.

G1262 *T. nipponensis* (PILSBRY, 1913)

(= *Prionovolva brevis* sensu ALLAN, 1956 *pars*.)

Nippon-kodama-usagi (= Nippon-kamegata-kebori)

- Type locality: Fukura, Awaji island, eastern Seto inland sea.
- Distribution: Sagami bay and westwards, Aichi prefecture (Mikawa bay), Kii strait, Kyūshū (Mogi; Nagasaki prefecture).
- Habitat: 10 to 50 m., parasitic on *Dendronephthya* (*Morchellana*) *habereri*, *D. (M.) castanea*, *D. gigantea* etc.
- Original genus: *Ovula*.

□ Genus *Prionovolva* IREDALE, 1930

Type species: *Ovulum breve* SOWERBY I, 1828 (o. d.)

G1263 *P. brevis* (SOWERBY I, 1828)

(= *Ovula bullata* GOULD, 1861)

Murakumo-kodama-usagi

- Type locality: none originally given; designated 'Keppel bay, Australia' (CATE, 1973-a).
- Distribution: Sagami bay and southwards, Kii peninsula, P6-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, P2; Philippines, Australia.
- Habitat: 20-50 m., sandy mud bottom, parasitic on *Dendronephthya gigantea*, *D. nipponica*, *D. (Morchellana) acaulis*, *D. (Roxasia) suenoni* etc.
- Original genus: *Ovulum*.

G1264 *P. pudica pudica* (A. ADAMS, 1855-k)

(= *Ovulum fruticum* REEVE, 1865; *P. pudica wilsoniana* CATE, 1973-a; *P. brevis* sensu MASE, 1989; HAMADA, 1992)

Kasumi-kodama-usagi (= Shiro-obi-kodama-usagi; Shiro-

obi-umi-usagi)

- Type locality: 'New Caledonia'.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Borneo, New Caledonia.
- Habitat: parasitic on *Dendronephthya gigantea*, *D. nipponica* etc.
- Original genus: *Amphiperas* (*Ovula*).

G1265 *P. chosiensis* (CATE, 1973-a)

Chōshi-kodama-usagi

- Type locality: 'Chōshi' (Chōshi, Chiba prefecture, central Honshū): 35° 40' N., 140° 48' E.
- Distribution: known only from type locality.
- Original genus: *Galera*.

G1266 *P. bulla* (ADAMS & REEVE, 1848 in 1848-50)

Hiro-kuchi-kodama-usagi

- Type locality: 'China Seas'.
- Distribution: Sagami bay (MASE, 1989) and southwards, Kii peninsula (off Nada), P5, Japan Sea (Wakasa bay, J2-J1), EC5, ECP4-ECP2.
- Habitat: 40-50 m., parasitic on *Dendronephthya gigantea* etc.
- Original genus: *Ovulum*.

G1267 *P. nivea* CATE, 1974

Shiro-iro-kodama-usagi

- Type locality: New Caledonia: 21° 30' N., 165° 30' E.
- Distribution: Kii peninsula (off Cape Hino CATE, 1974; off Cape Kirime); New Caledonia.
- Habitat: 55 m., parasitic on *Dendronephthya*.

□ Genus *Dentiovula* HABE, 1961-a

Type species: *Ovulum dorsuosa* HINDS, 1844 (o. d.)

G1268 *D. dorsuosa* (HINDS, 1844 in 1844-45)

(= *Primovula mariae* SCHILDER, 1941; *P. striatula* sensu CERNOHORSKY, 1968; *Dentiovula* sp. sensu SPRINGSTEEN & LEOBRERA, 1986)

Kin-suji-kebori (= Maria-koboreba-kebori)

- Type locality: Malacca straits, 9 fms. mud.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5; Philippines, southeast Asia, east Africa (Madagascar).
- Habitat: subtidal, rocks; parasitic on *Siphonogorgia dipsacea*, *Acanthogorgia* sp., *Acalycigorgia grandiflora*, *A. inermis*, *Eupleuxaura* sp. etc.
- Original genus: *Ovulum*.

G1269 *D. colobica* (AZUMA & CATE, 1971-a)

(= *D. saturnalia* CATE & AZUMA, 1973; *Primovula* (*Dentiovula*) *dorsuosa* sensu OKUTANI, 1975; ARAKAWA in SAKURAI, 1986; *D. cardini* CATE, 1978-a)

Koboreba-kebori (= Akebono-koboreba-kebori; Ukari-koboreba-kebori; Odori-koboreba-kebori; Kājin-koboreba-kebori)

- Type locality: off Cape Kirime, Kii peninsula: 34° 00' N., 134° 48' E., 55-91 m.
- Distribution: Sagami bay and westwards, Mie prefecture, Kii peninsula, western Japan Sea (off Mishima TSUCHIDA & HORI, 1996).
- Habitat: 30-100 m., parasitic on *Acalycigorgia inermis*, A. sp. etc.
- Original genus: *Primovula*.

G1270 *D. tadashigei* CATE, 1973-a

Habe-koboreba-kebori

- Type locality: Sagami bay, central Honshū.
- Distribution: Sagami bay, Kii peninsula (off Minabe), Kikaishima (Amami islands).
- Habitat: host unknown.

G1271 *D. masaoi* CATE, 1973-a

Azuma-koboreba-kebori

- Type locality: 2-3km off Cape Kirime, Kii peninsula, central Honshū; 40-50 m.
- Distribution: Kii peninsula and southwards, P5, EC5; Philippines (off Bantayan island).
- Habitat: host unknown.

G1272 *D. takeoi* CATE & AZUMA, 1973

(= *Primovula (Adamantia) trailli (pars) sensu* HAMADA, 1992)

Chishio-koboreba-kebori

- Type locality: 2-3km off Cape Kirime, Kii peninsula, central Honshū; 55-73 m.
- Distribution: Kii peninsula, eastern Kyūshū (Ōita prefecture).
- Habitat: host unknown.

G1273 *D. eizoi* CATE & AZUMA, 1973

Sumire-koboreba-kebori (= Sumire-kebori)

- Type locality: 2-3km off Cape Kirime, Kii peninsula, central Honshū; 30-40 m.
- Distribution: Sagami bay and westwards, P6-P5, eastern Kyūshū (Ōita prefecture); South Africa (LILTVED, 1989).
- Habitat: 30-50 m., parasitic on *Acalycigorgia* sp.

G1274 *D. parvita* AZUMA, 1974-b

Hime-koboreba-kebori

- Type locality: 2-3km off Cape Kirime, Kii peninsula, central Honshū; 30-40 m.
- Distribution: Kii peninsula (off Tomita, off Cape Kirime).
- Habitat: host unknown.

G1275 *D. cobra* CATE, 1975

Kobura-koboreba-kebori

- Type locality: off Cape Hino, Kii peninsula, central Honshū; 33° 52' N., 135° 02' E., 50-100 m.
- Distribution: Kii peninsula, Ōita prefecture (Kyūshū).
- Habitat: 50-100 m., host unknown.

G1276 *D. kiiensis* AZUMA, 1979-a

Kii-koboreba-kebori

- Type locality: 3-4 km off Cape Kirime, Kii peninsula, central Honshū; 50-60 m.
- Distribution: recorded only from type locality.

G1277 *D. spectabilis* CATE, 1975

Tsuya-koboreba-kebori

- Type locality: off Cape Hino, Kii peninsula, central Honshū; 18 m.
- Distribution: recorded only from type locality.

G1278 *D. diadema* CATE, 1978-a

(= *D. colobica (pars) sensu* HAMADA, 1992)

Kanmuri-koboreba-kebori

- Type locality: Kii peninsula, off Wakayama prefecture, central Honshū; 80 m.
- Distribution: recorded only from type locality.

G1279 *D. clava* HABE, 1991-c

Konbō-koboreba-kebori

- Type locality: off Minabe, Kii peninsula, central Honshū; ± 70 m.
- Distribution: recorded only from type locality.

□ Genus *Margovula* IREDALE, 1935

Type species: *Ovulum pyriformis* SOWERBY I, 1828 (o. d.)

G1280 *M. pyriformis* (SOWERBY I, 1828)

(= *Amphiperas pyrulina* A. ADAMS, 1855; *Ovulum pyrulinum sensu* REEVE, 1865; *O. pyrulina sensu* WEINKAUFF, 1881; *M. kosugei sensu* AZUMA, 1975)

Iguchi-kebori

- Type locality: 'Novae Cambriae Meridionalis' (central New South Wales, Australia), redesignated 'Mackay, Queensland, Australia' (CATE, 1973-a).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Australia.
- Habitat: subtidal to 30 m., host unknown.
- Original genus: *Ovulum*.

G1281 *M. kosugei* CATE, 1973-a

(= *Pseudosimnia (Diminovula) pyriformis sensu* SCHILDER, 1941; *Primovula (Diminovolva) pyriformis sensu* ALLAN, 1956; *Pseudeosimnia (Margovula) pyriformis sensu* KURODA, 1958 all non SOWERBY I, 1828; *P. (D.) punctata (pars) sensu* HAMADA, 1992)

Kosuge-kebori

- Type locality: 2km off Jōgashima, Sagami bay, central Honshū; 35° 20.0' N., 139° 20.0' E., 65-70 m.
- Distribution: Sagami bay and westwards, Kii peninsula (off Minabe; Tanabe bay), P6-P5.
- Habitat: 30-70 m., host unknown.

G1282 *M. emilyreidae* CATE, 1973-a

(= *emilyleidae* auct., err. pro *-reidae*)

Emiri-reido-kebori

- Type locality: Ogokuda beach, Cape Shio, Kii peninsula, central Honshū.
- Distribution: recorded only from type locality.

□ Genus *Lacrima* CATE, 1973-a

Type species: *Lacrima lacrima* CATE, 1973 (o. d.)

G1283 *L. lacrima* CATE, 1973-a

Shizuku-kebori

- Type locality: 5km west of Jōgashima, Sagami bay, central Honshū: 35° 17' N., 139° 14' E., 100-150 m.
- Distribution: recorded only from type locality.

G1284 *L. simulans* CATE, 1973-a

Shitatar-kebori

- Type locality: w.s.w. of Jōgashima, Sagami bay, central Honshū: 35° 17' N., 139° 41' E., ± 100 m.
- Distribution: recorded only from type locality.

□ Genus *Globovula* CATE, 1973-a

Type species: *Globovula spatiosa* CATE, 1973 (o. d.)

G1285 *G. margarita* (SOWERBY I, 1828)

(= *Ovula umbilicata* SOWERBY II, 1848)

Kodama-kebori

- Type locality: Tonga, southern Pacific.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, eastern Australia, Tonga islands, southwestern Pacific.
- Habitat: intertidal to 30 m., parasitic on *Stereonephthya rubriflora*, *S. japonica* etc.
- Original genus: *Ovulum*.

□ Genus *Pseudosimnia* SCHILDER, 1927

Type species: *Bulla carnea* POIRET, 1789 (o. d.)

Subgenus *Diminovula* IREDALE, 1930

G1286 *P. (D.) punctata* (DUCLOS, 1828)

(= *Diminovula verepunctata* IREDALE, 1930; *P. (D.) cristallina* SCHILDER, 1932)

Tenroku-kebori

- Type locality: Réunion, Indian Ocean.
- Distribution: Bōsō peninsula and westwards, P7-P5, EC5; Indo-Pacific, Australia.
- Habitat: intertidal to 50 m., parasitic on *Dendronephthya gigantea*, *D. nipponica*, *D. castanea*, *D. aurea*, *Stereonephthya rubriflora*, *S. japonica* etc.
- Original genus: *Ovula*.

G1287 *P. (D.) alabaster* (REEVE, 1865 in 1843-65)

(= *Ovula cristallina* KIENER auct.; *Ovula lactea sensu* TRYON, 1885; *P. (D.) verepunctata sensu* SCHILDER, 1941)

Hoso-tenroku-kebori

- Type locality: 'Senegal'; redesignated 'Gerialia, Exmouth

Gulf, western Australia: 22° 00' S., 114° 15' E' (CATE, 1973-a).

- Distribution: Bōsō peninsula (Tateyama bay) and westwards, Sagami bay, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific, southwestern Australia.
- Habitat: intertidal to 30 m., parasitic on *Dendronephthya gigantea*, *D. aurea*, *D. (Morchellana) habereri*, *Stereonephthya rubriflora*, *S. japonica* etc.
- Original genus: *Ovulum*.

G1288 *P. (D.) aurantiomaculata* CATE & AZUMA, 1973

Kiboshi-kebori

- Type locality: off Cape Kirime, Kii peninsula, central Honshū; 55-91 m.
- Distribution: recorded only from type locality.

G1289 *P. (D.) incisa* AZUMA & CATE, 1971-a

Shibori-kebori

- Type locality: 3-4km off cape Hino, Kii peninsula: 34° 00' N., 134° 48' E., 91-128 m.
- Distribution: west off Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986), Kii peninsula, eastern Kyūshū (Ōita prefecture).
- Habitat: parasitic on *Solenocaulon chinense* KÜKENTAL.

G1290 *P. (D.) filia* AZUMA, 1979-a

Pinku-shibori-kebori

- Type locality: 2-3km off Cape Kirime, Kii peninsula, central Honshū; 50-60 m.
- Distribution: Kii peninsula, Mie prefecture (Namikiri; Wagu), eastern Kyūshū (Ōita prefecture).
- Habitat: host unknown.

G1291 *P. (D.) whitworthi* CATE, 1973-a

(= *Prionovolva brevis* SOWERBY sensu AZUMA, 1970; *P. (D.) punctata (pars) sensu* HAMADA, 1992; *whitworthi* auct., err. pro *whit-*)

Bara-iro-kebori (= Bara-iro-kodama-usagi)

- Type locality: off Ogokuda beach, Cape Shio, Kii peninsula, central Honshū.
- Distribution: Kii peninsula, southwestern Shikoku (Kashiwajima; Okinoshima), eastern Kyūshū (Ōita prefecture).
- Habitat: parasitic on *Dendronephthya gigantea*, *D. (Morchellana) habereri* etc.

Subgenus *Inflatovula* CATE, 1973-a

Type species: *Ovulum marginatum* SOWERBY I, 1828 (o. d.)

G1292 *P. (I.) marginata* (SOWERBY I, 1828)

(= *Ovula margina sensu* KIENER, 1843; *O. adamsi* PAETEL, 1887; *Primovula (Diminovula) margarita sensu* KURODA, 1941)

Heritori-kodama-usagi (= Heritori-hina-usagi)



- Type locality: none originally given; designated 'Carigara bay, Leyte, Philippines: 11° 20' N., 124° 40' E.' (CATE, 1973-a).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, New Caledonia, China, India.
- Habitat: subtidal to 50 m., parasitic on *Dendronephthya gigantea*, *D. nipponica*, *D. habereri*, *D. acaulis* etc.
- Original genus: *Ovulum*.

G1293 *P. (I.) coroniola* CATE, 1973-a

Kurenai-kebori

- Type locality: off Kii peninsula, central Honshū.
- Distribution: recorded only from type locality.

G1294 *P. (I.) sinensis* (SOWERBY II, 1874)

Hina-umi-usagi

- Type locality: 'Hongkong'.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; southern China.
- Habitat: 10-20 m., parasitic on *Dendronephthya* sp.
- Original genus: *Ovulum*.

G1295 *P. (I.) kandai* CATE & AZUMA in CATE, 1973-a

(= *P. (Diminovula) punctata (pars) sensu* HAMADA, 1992)

Kanda-kebori

- Type locality: 2 km off 'Kamae' (= Kabae), Ōita prefecture, eastern Kyūshū: 33° 14' N., 131° 35' E., 2-37 m.
- Distribution: recorded only from type locality.

G1296 *P. (I.) culmen* CATE, 1973-a

(= *P. (I.) stigma* CATE, 1978-a)

Serogata-kebori (= Serogata-kodama-kebori; Mon-serogata-kebori)

- Type locality: off Cape Hino, Kii peninsula, central Honshū; 30-50 m.
- Distribution: Kii peninsula, eastern Kyūshū (Ōita prefecture).
- Habitat: parasitic on *Dendronephthya gigantea*, *D. (Morchellana) habereri*, *D. (M.) acaulis* etc.

Subgenus *Labiovolva* CATE, 1973-a

Type species: *Ovulum nubeculatum* ADAMS & REEVE, 1848 (o. d.)

G1297 *P. (L.) nubeculata* (ADAMS & REEVE, 1848 in 1848-50)

Hiro-kuchi-tamago-usagi

- Type locality: Basilan island, Mindanao, Philippines.
- Distribution: Kii peninsula and southwards; Philippines.
- Habitat: intertidal to 30 m., host unknown.
- Original genus: *Ovulum*.

G1298 *P. (L.) nubila* CATE & AZUMA, 1973

Kumori-fuchidori-kebori

- Type locality: off Cape Hino, Kii peninsula, central Honshū; 55-91 m.
- Distribution: recorded only from type locality.

□ Genus *Xandarovula* CATE, 1973-a

Type species: *Bulla patula* PENNANT, 1777 (o. d.)

G1299 *X. xanthochila* (KURODA, 1929 in 1929-31)

(= *Neosimnia hirasei sensu* SCHILDER, 1932)

Ukon-fukurin-gai

- Type locality: off southern Shikoku (Kōchi prefecture), 146 m.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5.
- Habitat: 50-200 m., parasitic on *Dendronephthya*.
- Original genus: '*Simnia*'?

G1300 *X. formosana* (AZUMA, 1972-b)

Taiwan-fukurin-gai

- Type locality: off southwestern Taiwan, ± 100 m.
- Distribution: southern Shikoku; Taiwan, South Africa (LILTVED, 1989).
- Habitat: 100-300 m., host unknown.
- Original genus: *Pellasmimnia*.

G1301 *X. pagoda* CATE, 1973-a

Tōgata-ukon-fukurin-gai

- Type locality: Tosa bay, southern Shikoku; 183 m.
- Distribution: off Kii peninsula to southern Shikoku.
- Habitat: 150-200 m., host unknown.

□ Genus *Aperiovula* CATE, 1973-a

Type species: *Ovulum adriaticum* SOWERBY I, 1828 (o. d.)

G1302 *A. jeanae* CATE, 1973-a

Otome-kinu-hada-zutsumi (= Jiinu-kinu-hada-zutsumi)

- Type locality: 'Ensynada in the sea between the Izu Peninsula and Ise Bay' (Enshū-nada, off Aichi prefecture, central Honshū).
- Distribution: Sagami bay and westwards, Enshū-nada, off Kii peninsula, southern Shikoku; South Africa (LILTVED, 1989).
- Habitat: 146-183 m., host unknown.

G1303 *A. shikamai* CATE, 1973-a

Shikama-kinu-hada-zutsumi

- Type locality: Enshū-nada, between Izu peninsula and Ise bay.
- Distribution: Enshū-nada and westwards, off Kii peninsula, southern Shikoku, eastern Kyūshū (Ōita prefecture).
- Habitat: 50-100 m., host unknown.

G1304 *A. robertsoni* CATE, 1973-a

Robātōson-kinu-hada-zutsumi

- Type locality: 'off Tosa' (Tosa bay, southern Shikoku); 180 m.
- Distribution: Tosa bay (off Tosa-hime-shima); Taiwan.
- Habitat: 100-200 m.

G1305 *A. yukitai* AZUMA, 1985-a

Yukita-kinu-hada-zutsumi

- Type locality: southwest off Kikaishima (Amami islands); 250-280 m.
- Distribution: recorded only from type locality.

G1306 *A. pontia* CATE, 1975

Watazoko-kinu-hada-zutsumi

- Type locality: off Cape Hino, Kii peninsula, central Honshū; 137 m.
- Distribution: recorded only from type locality.

G1307 *A. takaeopsis* CATE, 1978-a

Ōtaka-kinu-hada-zutsumi

- Type locality: Kii strait off Wakayama prefecture, central Honshū; 80 m.
- Distribution: recorded only from type locality.

G1308 *A. allynsmithi* CATE, 1978-a

Arin-sumisu-kinu-hada-zutsumi

- Type locality: Kii strait off Wakayama prefecture, central Honshū; 80 m.
- Distribution: recorded only from type locality.

□ Genus *Primovula* THIELE, 1925

Type species: *Amphiperas beckii* SOWERBY III, 1900 (o. d.)

Subgenus *Primovula s. str.*

G1309 *P. (P.) tigris* YAMAMOTO, 1971

Torafu-kebori

- Type locality: off Shirahama, Kii peninsula, central Honshū; 17 m. on gorgonid *Euplexaura* sp.
- Distribution: Ogasawara islands (Chichijima FUKUDA, 1993) and westwards, Miura peninsula, Kii peninsula (Nada; Shirahama; Minabe; Cape Shio), western Kyūshū, Amami Ōshima.
- Habitat: intertidal to 20 m., parasitic on *Euplexaura erecta*, *E. crassa* etc.

G1310 *P. (P.) habui* CATE, 1973-a

Habu-kebori

- Type locality: 2-3km off Tomita, Kii peninsula, central Honshū; 40-50 m.
- Distribution: Kii peninsula, southeastern Kyūshū (Ōita prefecture); South Africa (LILTVED, 1989).

G1311 *P. (P.) piriei* PETUCH, 1973

- Type locality: Nimoa island, Calvados chain, Louisiade Archipelago, Solomon islands.
- Distribution: Kii peninsula (central Honshū; coll. Y. Gotō, id. G. Rosenberg ANSP); northeastern Taiwan, Solomon

islands.

Subgenus *Adamantia* CATE, 1973-a

Type species: *Ovulum concinnum* ADAMS & REEVE, 1848 (o. d.)

G1312 *P. (A.) concinna* (ADAMS & REEVE, 1848 in 1848-50)

(= *Ovulum cumingi* MÖRCH, 1850; *O. margarita* A. ADAMS, 1854)

Kebori-gai (= Kebori-dakara; Shinayaka-kebori)

- Type locality: Capul island, Philippines.
- Distribution: southern Shikoku and southwards, western Kyūshū; southern China, southwestern Pacific.
- Habitat: 10-50 m., host unknown.
- Original genus: *Ovulum*.

G1313 *P. (A.) sinomaris* CATE, 1973-a

Namigata-kebori

- Type locality: off Shirahama, Kii peninsula, central Honshū.
- Distribution: recorded only from type locality.

G1314 *P. (A.) roseomaculata florida* (KURODA, 1958-b)

(= *Pseudosimnia fulguris sensu* AZUMA & CATE, 1973; *P. roseomaculata sensu* MASE, 1989; HAMADA, 1992 (*pars*))

Hanayaka-kebori

- Type locality: Cape Shio, Kii peninsula, central Honshū.
- Distribution: Sagami bay and westwards, Kii peninsula (off Cape Kirime; off Kushimoto; off Tsuga; off Cape Shio; off Minabe), eastern Kyūshū (Ōita prefecture).
- Habitat: 30-50 m., parasitic on *Alcyonium gracillimum*.
- Original genus: *Pseudosimnia* (*Diminovula*).

G1315 *P. (A.) kurodai* CATE & AZUMA, 1973

(= *P. (A.) roseomaculata (pars) sensu* HAMADA, 1992) Kuroda-kebori

- Type locality: 2-4km off Cape Kirime, Kii peninsula; 30-50 m.
- Distribution: Kii peninsula (off Nada; off cape Kirime).

□ Genus *Stohleroma* CATE, 1973-a

Type species: *Stohleroma stohleri* CATE, 1973 (o. d.)

G1316 *S. stohleri* CATE, 1973-a

Sutōre-tsuguchi

- Type locality: Ogokuda beach, Cape Shio, Kii peninsula, central Honshū.
- Distribution: recorded only from type locality.

G1317 *S. asiaticum* CATE, 1973-a

Kabatsuya-tsuguchi

- Type locality: Sagami bay, central Honshū between Hayama and Kamakura.
- Distribution: recorded only from type locality.

G1318 *S. fumikoe* (AZUMA & CATE, 1971-a)

Fumiko-tsuchi

- Type locality: off Kashiwajima, southwestern Shikoku; 160-200 m., in coral nets.
- Distribution: southern Shikoku, Kii peninsula (off Shirahama), eastern Kyūshū (Ōita prefecture).
- Original genus: *Primovula*.

□ Genus *Rotaovula* CATE & AZUMA in CATE, 1973-a

Type species: *Rotaovula hirohitoi* CATE & AZUMA, 1973 (o. d.)

G1319 *R. hirohitoi* CATE & AZUMA in CATE, 1973-a

Haguruma-kebori (= Mikado-haguruma-kebori)

- Type locality: 2-4km off Cape Hino, Kii peninsula, central Honshū; 91-128 m.
- Distribution: Sagami bay and westwards, Kii peninsula, eastern Kyūshū (Ōita prefecture).
- Habitat: 50-150 m., parasitic on *Acalycigorgia* sp.

□ Genus *Crenovolva* CATE, 1973-a

Type species: *Ovulum striatulum* SOWERBY I, 1828 (o. d.)

Subgenus *Crenovolva s. str.*

G1320 *C. (C.) striatula striatula* (SOWERBY I, 1828)

(= *Ovula tuberculosa* GRAY, 1839; *O. nigerima* DUFO, 1840; '*Ovulum striatulum=rutherfordiana*' sensu SOWERBY II, 1848; *O. nigerrima* sensu TRYON, 1885; *O. striata* sensu PAETEL, 1887; *Birostra nigerina* sensu PAETEL, 1887)

Hana-ayame-kebori

- Type locality: 'East Indies'.
- Distribution: Sagami bay and southwards, P6-P5, EC5; Indo-Pacific.
- Habitat: 20-40 m. on rocks; parasitic on *Euplexaura erecta*, *E. crassa* etc.
- Original genus: *Ovulum*.

G1321 *C. (C.) striatula trailli* (A. ADAMS, 1856-b)

(= *Ovula dentata* sensu ANGAS, 1878; *Primovula striatula* sensu CERNOHORSKY, 1968; *P. formosa (pars)* KURODA *et al.*, 1971)

Ayame-kebori (= Hagata-sujimaki-kebori)

- Type locality: 'Malacca' (Straits of Malacca, Indonesia).
- Distribution: Bōsō peninsula and westwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, central & western Pacific, Indonesia, Sulu sea, Australia.
- Habitat: 30-50 m., parasitic on *Euplexaura erecta*, *E. crassa*, *Anthoplexaura dimorpha*, *Plexauroides praelongus* etc.
- Original genus: *Amphiperas (Ovulum)*.

G1322 *C. septemmacula* (AZUMA, 1974-b)

(= *Crenovolva conspicua* CATE, 1975)

Nanahoshi-koboreba-kebori (= Semushi-koboreba-kebori;

Nanahoshi-kebori)

- Type locality: 3-4km off Cape Kirime, Kii peninsula, central Honshū; 60-75 m.
- Distribution: Sagami bay, Kii peninsula; South Africa (LILTVED, 1989).
- Habitat: 50-100 m., parasitic on *Acalycigorgia* sp.
- Original genus: *Dentiovula*.

G1323 *C. (C.) matsumiyai* AZUMA, 1974-c

Matsumiya-sujimaki-kebori

- Type locality: off Minabe, Kii peninsula, central Honshū; 40-50 fms.
- Distribution: Kii peninsula, eastern Kyūshū (Ōita prefecture).
- Habitat: host unknown.

G1324 *C. (C.) tokuoi* AZUMA, 1989-a

Matsumiya-kebori

- Type locality: off Tomita, Kii peninsula (Wakayama prefecture), central Honshū; 100 m.
- Distribution: recorded only from type locality.

G1325 *C. (C.) virgo* (AZUMA & CATE, 1971-a)

Otome-kebori

- Type locality: 3-4km off Cape Hino, Kii peninsula, central Honshū; 91-128 m., on capitulum of *Solenocaulon chinense*.
- Distribution: recorded only from type locality.
- Original genus: *Primovula*.

G1326 *C. (C.) frumentum* (SOWERBY I, 1828)

(= *Sulcocyprea striatula* sensu KURODA, 1928; *Primovula trailli* sensu ALLAN, 1956; '*Primovula striatula?*' sensu S. HIRASE, 1934; *Primovula beckeri* sensu MASE, 1989; HAMADA, 1992)

Tsumani-kebori

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5; Korea, Goa (western India).
- Habitat: intertidal to 20 m., parasitic on *Dendronephthya gigantea*, *Stereonephthya japonica*, *S. rubriflora*, *Euplexaura erecta*, etc.
- Original genus: *Ovula*.

G1327 *C. (C.) renovata* (IREDALE, 1930)

(= *Ovulum dentatum* ADAMS & REEVE, 1848 in 1848-50 non FISCHER von WALDHEIM, 1807; *Ovula dentata* sensu WEINKAUFF, 1881; *Calpurnus (Ovula) dentata* sensu HORST & SCHEPMAN, 1899)

Murakumo-kebori

- Type locality: Caramata passage, near Singapore.
- Distribution: Kii peninsula (off Cape Kirime); southeast Asia.
- Original genus: *Prosimnia*.

G1328 *C. (C.) peripsis* CATE, 1978

Ō-tsumani-kebori

- Type locality: off Surabaya, Java, Indonesia.
- Distribution: Kii peninsula (off Cape Kirime, 30-50 m.); Java.

Subgenus *Serratovolva* CATE, 1973-a

Type species: *Primovula (Diminovula) dondani* CATE, 1964 (o. d.)

G1329 *C. (S.) imitabilis* CATE, 1973-a

Nokogiriba-kebori

- Type locality: Ogokuda beach, Cape Shio, Kii peninsula, central Honshū.
- Distribution: Sagami bay, type locality.

G1330 *C. (S.) minabeensis* CATE, 1975

Minabe-nokogiriba-kebori

- Type locality: off Minabe, Kii peninsula (Wakayama prefecture), central Honshū; 73-74 m.
- Distribution: west off Bōsō peninsula (TSUCHIDA & KUROSUMI, 1986), Kii peninsula (Tanabe bay; off Minabe), eastern Kyūshū (Ōita prefecture), P2; South Africa.
- Habitat: 70-100 m.

Subgenus *Cuspidolva* CATE, 1973-a

Type species: *Cuspidolva cuspis* CATE, 1973 (o. d.)

G1331 *C. (Cu.) cuspis* CATE, 1973-a

Togari-ayame-kebori

- Type locality: Kii strait, off Kii peninsula, central Honshū.
- Distribution: Kii peninsula, eastern Kyūshū (Ōita prefecture).

G1332 *C. (Cu.) draperi* CATE & AZUMA, 1973

Doreipā-kebori

- Type locality: Nada, Gobō district, Kii peninsula, central Honshū; 55-73 m.
- Distribution: Izu islands (Kurose), Kii peninsula; South Africa.
- Habitat: 50-100 m.

G1333 *C. (Cu.) azumai* (CATE, 1970)

Azuma-kebori

- Type locality: 1-2km off Cape Kirime, Kii peninsula, central Honshū; 37-55 m.
- Distribution: Sagami bay and westwards, P6-P5, eastern Kyūshū (Ōita prefecture); Indian Ocean off South Africa.
- Habitat: 35-100 m., parasitic on *Acalycigorgia radians*.
- Original genus: *Primovula*.

G1334 *C. (Cu.) mucronata* (AZUMA & CATE, 1971-a)

Togari-kebori

- Type locality: 2-3km off Cape Kirime, Kii peninsula, central Honshū; 55-91 m.
- Distribution: recorded only from type locality.

- Original genus: *Primovula*.

G1335 *C. (Cu.) myrakeenae* (AZUMA & CATE, 1971-a)

(= *C. (Cu.) azumai (pars) sensu* HAMADA, 1992)

Kiinu-kebori

- Type locality: off Nada, Gobō district, Kii peninsula, central Honshū; 55-91 m.
- Distribution: Sagami bay and westwards, Kii peninsula, southern Shikoku, southwestern Shikoku (Okinoshima; Kashiwajima).
- Habitat: 50-100 m., parasitic on *Acalycigorgia inermis*.
- Original genus: *Primovula*.

G1336 *C. (Cu.) rostellata* CATE, 1973-a

Kuchi-bashi-kebori

- Type locality: Smithsonian sta. No. 5642, Boetong island off Celebes island, Indonesia: 02° 30' S., 120° 30' E., 68 m., mud.
- Distribution: Kii peninsula (off Cape Kirime, 50-70 m.) and southwards; Celebes island.

□ Genus *Delonovolva* CATE, 1973-a

Type species: *Ovulum formosum* ADAMS & REEVE, 1848 (o. d.)

G1337 *D. formosa* (ADAMS & REEVE, 1848 in 1848-50)

Hoso-ayame-kebori

- Type locality: 'East coast of Borneo'.
- Distribution: Bōsō peninsula and westwards, P7-P5, EC5, ECP4-ECP2, P2; Indo-Pacific.
- Habitat: subtidal to 20 m., parasitic on *Dendronephthya* sp., *Euplexaura erecta*, *Plexauroides praelongus*, *Echinogorgia rigida* etc.
- Original genus: *Ovulum*.

G1338 *D. dolabra* CATE, 1974

Tsuruhashi-kebori

- Type locality: off Cape Hino, Kii peninsula, central Honshū; ± 52 m.
- Distribution: recorded only from type locality.

□ Genus *Carpiscula* CATE, 1973-a

Type species: *Ovulum bullatum* ADAMS & REEVE, 1848 (o. d.)

G1339 *C. bullata* (ADAMS & REEVE, 1848 in 1848-50)

Kaneko-kebori (= Kebori-tsuguchi; Bara-iro-kabuto-kebori)

- Type locality: Caramata Passage, near Singapore.
- Distribution: off Chōshi (Chiba prefecture, central Honshū), Kii peninsula; Taiwan, Singapore.
- Original genus: *Ovulum*.

G1340 *C. galearis* CATE, 1973-a

Kabuto-kebori

- Type locality: 25 miles off Phuket island, Thailand: 08°

29' N., 97° 59' E., 42 m., sandy mud.

- Distribution: Kii peninsula (off Cape Hino, 30-50 m.; Nada to Shirahama 30-60 m.); Thailand.
- Habitat: parasitic on *Euplexaura erecta*, *Solenocaulon chinense* etc.

□ Genus *Calpurnus* MONTFORT, 1810 in 1808-10

Type species: *Bulla verrucosa* LINNAEUS, 1758 (o. d.) (= *Cypraea* SWAINSON, 1840)

Subgenus *Calpurnus* s. str.

G1341 *C. (C.) verrucosus* (LINNAEUS, 1758)

(= *Ovula perla* RÖDING, 1798)

Semushi-umi-usagi

- Type locality: 'in India Orientali' (East Indies).
- Distribution: Amami islands and southwards, ECP3-P2; Indo-western Pacific.
- Habitat: on coral reefs, parasitic on *Sarcophyton*.
- Original genus: *Bulla*.

Subgenus *Procalpurnus* THIELE, 1939

Type species: *Ovula lactea* LAMARCK, 1810

G1342 *C. (P.) lacteus lacteus* (LAMARCK, 1810)

(= *Ovulum album* DUFO, 1840; *Amphiperas semistriatus* PEASE, 1862; *O. alba sensu* TRYON, 1885; '*O. lactea cost=carnea*' sensu PAETEL, 1887; *C. (P.) lacteus semistriatus* (PEASE) sensu S. HIRASE, 1934; KURODA, 1941, 1960; OKUTANI, 1975)

Mame-usagi-gai (= Hina-usagi-gai)

- Type locality: off Timor island, Indonesia.
- Distribution: Kii peninsula and southwards, Ogasawara islands, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific, southwestern Australia.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Ovula*.

□ Genus *Ovula* BRUGUIÈRE, 1792 in 1789-1816

Type species: *Ovula oviformis* LAMARCK, 1801 (s. d.) (= *Anula* GRIFFITH & PIDGEON, 1834; *Semi-porcellana* DACOSTA, 1776; *Licium* HUMPHREY, 1797 nom. nud.; *Amphiperas* GRONOVIVUS, 1781 nom. nud.; *Parlicium* IREDALE, 1935; *Ovulus*, *Ovulum*, *Ovularia* auct.)

Subgenus *Ovula* s. str.

G1343 *O. (O.) ovum* (LINNAEUS, 1758)

(= *O. cygnea* RÖDING, 1798; *O. oriformis* LAMARCK, 1801; *O. alba* PERRY, 1811; *O. pygmaea* SOWERBY I, 1828)

Umi-usagi

- Type locality: 'in O. Asiatico' (Asian seas).
- Distribution: Ogasawara islands and westwards, P11, Kii peninsula and southwards, southwestern Kyūshū, P5, EC5, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific, east Africa.
- Habitat: subtidal to 20 m., on soft coral (*Sarcophyton*).

- Original genus: *Bulla*.

G1344 *O. (O.) isibasii* (KURODA, 1929 in 1929-31)

(= *ishibashi*, *isibashii* auct.)

Ishibashi-umi-usagi

- Type locality: Tanabe bay, Kii peninsula, central Honshū.
- Distribution: Sagami bay and southwards, Izu islands, Kii peninsula, P6-P5, southwestern Kyūshū, ECP4-ECP2, P2; southwestern Taiwan, Philippines.
- Habitat: 50-100 m., rocks and coral reefs; host unknown.
- Original genus: *Amphiperas*.

G1345 *O. (O.) costellata* LAMARCK, 1810

(= *Cypraea tortilis* MARTYN, 1784 (invalid: ICZN op. 456); *Bulla imperialis* LIGHTFOOT, 1786 nom. nud.; *O. angulosa* LAMARCK, 1822 in 1815-22; *O. columba* SCHUBERT & WAGNER, 1829; *O. tortilis sensu* WEINKAUFF, 1881; '*Ovula imperialis=tortilis*' sensu PAETEL, 1887; '*Ovula columba=tortilis*' sensu PAETEL, 1887)

Kuchi-murasaki-umi-usagi

- Type locality: Zanzibar, east Africa.
- Distribution: Kii peninsula and southwards, southern Shikoku, P5, ECP4-ECP2, P2; Philippines, Australia, Indo-western Pacific.
- Habitat: subtidal to 20 m., rocks and coral reefs, host unknown.

□ Genus *Prosimnia* SCHILDER, 1927

Type species: *Ovula semperi* WEINKAUFF, 1881 (o. d.)

G1346 *P. semperi* (WEINKAUFF, 1881)

(= *Ovulum hordaceum sensu* SOWERBY II, 1830; *O. triticea sensu* FISCHER, 1927; *Primovula (Prosimnia) coarctata sensu* SCHILDER, 1941; *Primovula (Prosimnia) coarctata sensu* KIRA, 1959; AZUMA, 1960; *Prosimnia (Prosimnia) coarctata sensu* HABE & KOSUGE, 1967; *Primovula (Hiatovula) coarctata sensu* OKUTANI, 1975; *Primovula coarctata sensu* ARAKAWA in OKUTANI (Ed.), 1986; *P. semperi boshuensis* CATE, 1973-a) Hon-chijiwa-kebori (= Tatsunoko-chijiwa-kebori; Chijiwa-kebori)

- Type locality: 'Borneo' (SOWERBY II, 1830).
- Distribution: Bōsō peninsula and southwards, Kii peninsula (off Nada; off Mio), southwestern Shikoku (Tatsukushi; Kashiwajima), eastern Kyūshū (Ōita prefecture), ECP4-ECP2, P2, 'Ryūkyū Islands and Japan' (CATE, 1973-a); Philippines, Indo-western Pacific, Australia.
- Habitat: 10-50 m., on *Melithaea*.
- Original genus: *Ovula*.

□ Genus *Simnialena* CATE, 1973-a

Type species: *Simnialena marferula* CATE, 1973 (o. d.)

G1347 *S. formicaria* (SOWERBY I, 1828)

(= *Ovula hordacea sensu* TRYON, 1885; *Birostra fornicata sensu* PAETEL, 1887 *err. pro -micaria*)  
 • Type locality: 'Eastern Seas', restricted to 'Bilatan island, Philippines: 05° 00' N., 120° 00' E.' (CATE, 1973-a).  
 • Distribution: 'Kino-Sima' (Kii-Ōshima, Wakayama prefecture, central Honshū), Japan, 35 fms. A. ADAMS' (CATE, 1973-a); Philippines, western Pacific.  
 • Original genus: *Ovulum*.

□ Genus *Sandalia* CATE, 1973-a

Type species: *Ovula triticea* LAMARCK, 1810 (o. d.)

G1348 *S. rhodia* (A. ADAMS, 1855-k)

(= *Ovula hordacea sensu* IWAKAWA, 1900-05; *Aperiovula meyeriana* CATE, 1973-a; *A. takae* CATE, 1973-a)  
 Tsuguchi-gai (= Meiyā-kinu-hada-zutsumi; Mēria-kinu-hada-zutsumi; Taka-kinu-hada-zutsumi)  
 • Type locality: 'Japan'.  
 • Distribution: southern Hokkaidō and southwards, Iwate prefecture (Ōtsuchi bay TSUCHIDA, 1990), P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea, China.  
 • Habitat: subtidal to 30 m., parasitic on *Melithaea flabellifera*, *Melitoides ochracea*, *Euplexaura erecta*, *Stereonephthya japonica*, *Dendronephthya* sp., *Paraspongodes* sp.  
 • Original genus: *Amphipera*.

Subfamily VOLVINAЕ SCHILDER, 1932

□ Genus *Aclyvolva* CATE, 1973-a

Type species: *Ovulum lanceolatum* SOWERBY II, 1849 (o. d.)

G1349 *A. lanceolata* (SOWERBY II, 1849-a)

(= *Ovula rosea sensu* ROSSITER, 1883)  
 Hoso-kinu-zutsumi  
 • Type locality: Sorgoson island, Luzon, Philippines.  
 • Distribution: Okinawa islands (KURODA, 1961); Taiwan, Philippines, Indo-western Pacific.  
 • Original genus: *Ovulum*.

G1350 *A. clara* CATE, 1973-a

Yuki-kinu-zutsumi (= Yari-kinu-zutsumi)  
 • Type locality: off Minabe, Kii peninsula, central Honshū; 40-50 m.  
 • Distribution: recorded only from type locality.

□ Genus *Cymbovula* CATE, 1973-b

Type species: *Ovula acicularis* LAMARCK, 1810 (o. d.)  
 (= *Cymbula* CATE, 1973-a non ZETEK & MCLEAN, 1936)

G1351 *C. deflexa* (SOWERBY II, 1849-a)

Uchimaki-mame-higai (= Sorikā-kinu-zutsumi)  
 • Type locality: Ticao island, Philippines.  
 • Distribution: Kii peninsula and southwards, P5,

Tanegashima & Yakushima, ECP4-ECP2, P2; Philippines, tropical western Pacific.

• Habitat: IT to 20 m., on *Gorgonians*.  
 • Original genus: *Ovulum*.

□ Genus *Dissona* CATE, 1973-a

Type species: *Primovula tosaensis* AZUMA & CATE, 1971 (o. d.)

G1352 *D. tosaensis* (AZUMA & CATE, 1971-a)

Tosa-tsuguchi-gai (= Tosa-kubire-kinu-zutsumi; Tosa-kebori)  
 • Type locality: 2 km off Cape Kirime, Kii peninsula, central Honshū; 55-73 m.  
 • Distribution: Sagami bay and westwards, Kii peninsula, southern Shikoku, Japan Sea (Wakasa bay), eastern Kyūshū (Ōita prefecture).  
 • Habitat: 50-100 m., on *Antipathes japonica*, *Gorgon* etc.  
 • Original genus: *Primovula*.

G1353 *D. hasta* CATE & AZUMA, 1973

Yari-kubire-kinu-zutsumi  
 • Type locality: 2-3 km off Minabe, Kii peninsula, central Honshū; 73 m.  
 • Distribution: Kii peninsula, southwestern Shikoku (Kashiwajima).

□ Genus *Hiatavolva* CATE, 1973-b

Type species: *Ovulum depressum* SOWERBY II, 1875 (o. d.)  
 (= *Hiata* CATE, 1973-a non ZETEK & MCLEAN, 1936)

G1354 *H. coarctata* (ADAMS & REEVE, 1848 in 1848-50)

(= *Primovula horimasarui* AZUMA & CATE, 1971-a; *H. rugosa* CATE & AZUMA, 1973)  
 Hori-kinu-zutsumi (= Hori-isobana-yadori; Chirimen-kinu-zutsumi)  
 • Type locality: Sunda straits, Indonesia.  
 • Distribution: Sagami bay and westwards, Kii peninsula, southern Shikoku, P6-P5, EC5; Indonesia.  
 • Habitat: 50-100 m., parasitic on *Melithaea flabellifera*, *Echinogorgia rigida*.  
 • Original genus: *Ovulum*.

□ Genus *Kuroshiovolva* AZUMA & CATE, 1971-a

Type species: *Kuroshiovolva shingoi* AZUMA & CATE, 1971 (o. d.)

G1355 *K. shingoi* AZUMA & CATE, 1971-a

Habu-kinu-zutsumi (= Kuroshio-kinu-zutsumi)  
 • Type locality: 2-4 km off Cape Hino, Kii peninsula: 34° 00' N., 134° 48' E., 128-146 m.  
 • Distribution: Kii peninsula, eastern Kyūshū (Ōita prefecture).  
 • Habitat: on gorgonian *Plumarella cristata* GORZAWSKI.

□ Genus *Phenacovolva* IREDALE, 1930

Type species: *Phenacovolva nectarea* IREDALE, 1930 (o. d.)

(= *Radius* SCHUMACHER, 1817 non MONTFORT, 1810)

Subgenus *Phenacovolva s. str.*

G1356 *P. (P.) rosea rosea* (A. ADAMS, 1855-k)

(= *Volva carpenteri* DUNKER, 1877; *V. adamsi* DUNKER, 1887; '*O. adamsi*'=*O. angasi*' sensu TRYON, 1885; *O. philippinarum* sensu TRYON, 1885)

Beni-kinu-zutsumi

- Type locality: 'China'; restricted to 'Kii strait (central Honshū), Japan' (CATE, 1973).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, China, western Pacific.
- Habitat: subtidal to 50 m., parasitic on *Anthoplexaura dimorpha*, *Echinogorgia rigida*, *Acalycigorgia inermis*, *Altipathes japonica*, *Bellona dofleini* etc.
- Original genus: *Volva*.

G1357 *P. (P.) lahainaensis* (CATE, 1969)

Rahaina-kinu-zutsumi

- Type locality: Lahaina roads, Maui, Hawaii, 58 m.
- Distribution: Kii peninsula, southwestern Shikoku (off Tatsukushi); Hawaii.
- Habitat: 20-60 m.
- Original genus: *Volva* (*Phenacovolva*).

G1358 *P. (P.) birostris* (LINNAEUS, 1767)

(= *Volva sowerbyana* sensu ALLAN, 1956)

Shiro-obi-kinu-zutsumi

- Type locality: none originally given; '*ad Javam*' (Java, Indonesia) given in LINNAEUS, 1767. Designated 'off Bataan, Manila bay, Philippines: 14° 40' N., 120° 25' E' (CATE, 1973).
- Distribution: Bōsō peninsula and southwards, Kii peninsula, P7-P5, Japan Sea (Noto peninsula, J2-J1), ECP4-ECP2, P2; Philippines, Korea, western Pacific.
- Habitat: 10-50 m., parasitic on *Anthoplexaura dimorpha*, *Altipathes japonica*, *Acalycigorgia inermis* etc.
- Original genus: *Bulla*.

G1359 *P. (P.) tayloriana* AZUMA & CATE, 1971-a

Ta-iro-kinu-zutsumi

- Type locality: 2-3 km off Cape Kirime, Kii peninsula, central Honshū; 55 m.
- Distribution: Kii peninsula, eastern Kyūshū (Ōita prefecture), western Japan Sea (off Mishima TSUCHIDA & HORI, 1996).
- Habitat: 50-100 m., parasitic on *Telesto* sp.

G1360 *P. (P.) recurva* (ADAMS & REEVE, 1848 in 1848-50)

(= *Cyphoma elongatum* A. ADAMS, 1863; *Volva*

*longirostrata* sensu CERNOHORSKY, 1971; *P. (P.)*

*parvita* CATE & AZUMA in CATE, 1973-a)

Sori-kinu-zutsumi (= Hime-sori-kinu-zutsumi)

- Type locality: 'China Seas'.
- Distribution: Sagami bay and westwards, P6-P5, ECP4-ECP2, P2; China, Australia.
- Habitat: 50-100 m., on *Altipathes japonica*, *Telesto* sp., etc.
- Original genus: *Ovulum*.

Subgenus *Pellasimnia* IREDALE, 1931

Type species: *Ovulum angasi* REEVE, 1865 (o. d.)

G1361 *P. (Pe.) angasi* (REEVE, 1865 in 1843-65)

Angasu-kinu-zutsumi

- Type locality: 'Port Curtis, Australia' (Queensland).
- Distribution: Bōsō peninsula and westwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, western Pacific, northern Australia.
- Habitat: 10-30 m., on white gorgonians.
- Original genus: *Ovulum*.

G1362 *P. (Pe.) philippinarum* (SOWERBY II, 1849-a)

(= *P. philippinarum carpenteri* sensu KIRA, 1959)

Kinu-zutsumi

- Type locality: Capul island, Philippines.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, western Pacific.
- Habitat: subtidal to 20 m., parasitic on *Altipathes japonica*, *Melitheia flabellifera*, gorgonians.
- Original genus: *Ovulum*.

G1363 *P. (Pe.) subreflexa* (ADAMS & REEVE, 1848 in 1848-50)

(= *P. philippinarum* sensu SCHILDER, 1941;

*Phenacovolva kiiensis* AZUMA & CATE, 1971-a)

Kii-kinu-zutsumi

- Type locality: Bilaton island, off Sumatra (Java Sea, Indonesia).
- Distribution: Kii peninsula and southwards, southern Shikoku; east Africa, Seychelles, Indonesia.
- Habitat: 10-30 m., on gorgonians.
- Original genus: *Ovulum*.

G1364 *P. (Pe.) diantha* CATE, 1973-a

Pinku-kinu-zutsumi

- Type locality: off Kii peninsula, central Honshū; 37 m.
- Distribution: recorded only from type locality.

G1365 *P. (Pe.) improcera* (AZUMA & CATE, 1971-a)

Hime-kinu-zutsumi

- Type locality: 2-3km off Cape Kirime, Kii peninsula, central Honshū; 55-91 m.
- Distribution: Kii peninsula; western Australia to Darwin.
- Habitat: 50-100 m., on gorgonians.
- Original genus: *Phenacovolva*.

G1366 *P. (Pe.) rehderi* CATE, 1973-a

Rēdā-kinu-zutsumi

- Type locality: Kii peninsula, central Honshū.
- Distribution: type locality; South Africa (LILTVED, 1989).

G1367 *P. (Pe.) gracilis* (ADAMS & REEVE, 1848 in 1848-50)

Murakumo-kinu-zutsumi

- Type locality: 'East coast of Borneo' redesignated '2-3km off Minabe, Kii peninsula, 34° 00' N., 134° 48' E., 40-50m' (CATE, 1973).
- Distribution: Bōsō peninsula and southwards, Izu islands (dredged on Zenisu bank TSUCHIDA & IKEBE, 1991), P7-P5, EC5, P2; Philippines, western Pacific.
- Habitat: 30-100 m., parasitic on *Altipathes japonica*.
- Original genus: *Ovulum*.

G1368 *P. (Pe.) weaveri* CATE, 1973-a

(= *P. (Pe.) weaveri pseudogracilis* CATE & AZUMA, 1973)

Nise-murakumo-kinu-zutsumi

- Type locality: Au Au Channel, Maui, Hawaii: 20° 55' N., 156° 45' W., 67 m., on brown coral.
- Distribution: Kii peninsula and westwards, P5, EC5, ECP4-ECP2, P2; Philippines, South Africa (LILTVED, 1989), Hawaii.
- Habitat: 30-100 m., host unknown.

G1369 *P. (Pe.) mikado* KUROHARA & HABE, 1991

Mikado-kinu-zutsumi

- Type locality: off Cape Ashizuri, Kōchi prefecture, southwestern Shikoku; ± 150 m.
- Distribution: recorded only from type locality.

Subgenus *Turbovula* CATE, 1973-a

Type species: *Radiu brevirostris* SCHUMACHER, 1817 (o. d.)

G1370 *P. (T.) brevirostris* (SCHUMACHER, 1817)

(= *Ovulum spelta sensu* SOWERBY II, 1848; *Ovula sowerbyana* WEINKAUFF, 1881)

Shusu-zutsumi (= Harabuto-kinu-zutsumi)

- Type locality: none originally given; designated 'off Bataan, Manila bay, Philippines; 14° 40' N., 120° 25' E.' (CATE, 1973).
- Distribution: Enshū-nada and westwards, Kii peninsula, southern Shikoku, P6-P5, EC5, ECP4-ECP2, P2; Philippines, China, western Pacific.
- Habitat: on *Anthoplexaura dimorpha*, *Altipathes japonica* etc.
- Original genus: *Radiu*.

G1371 *P. (T.) fusula* CATE & AZUMA, 1973

Funegata-kinu-zutsumi

- Type locality: 2-3 km off Minabe, Kii peninsula, central

Honshū; 40-50 m.

- Distribution: type locality; South Africa (LILTVED, 1989).
- Habitat: on gorgonian *Altipathes japonica*.

G1372 *P. (T.) dancei* CATE, 1973-a

Dansu-kinu-zutsumi

- Type locality: Singapore.
  - Distribution: Kii peninsula; northern Australia.
  - Habitat: on *Altipathes japonica*.
- Notes:** records from South Africa are not this species (LILTVED, 1989).

G1373 *P. (T.) hirasei* (PILSBRY, 1913)

Sachiko-tsuguchi

- Type locality: 'Province of Tosa, Japan' (southern Shikoku).
- Distribution: Kii peninsula and westwards, southern Shikoku; Taiwan, Philippines, South Africa (LILTVED, 1989).
- Habitat: 100-300 m., host unknown.
- Original genus: *Ovula* (*Neosimnia*).

G1374 *P. (T.) kashiwajimensis* CATE & AZUMA, 1973

Kashiwajima-kinu-zutsumi

- Type locality: 2-3 km off Tomida, Kii peninsula, central Honshū; 75-91 m.
- Distribution: Kii peninsula and westwards, southwestern Shikoku (off Kashiwajima)
- Habitat: 50-100 m., host unknown.

Subgenus *Calcarovula* CATE, 1973-b

Type species: *Ovulum longirostratum* SOWERBY I, 1828 (o. d.)  
(= *Calcaria* CATE, 1973-a non PORAT, 1878)

G1375 *P. (C.) longirostrata* (SOWERBY I, 1828)

(= *Volva* (*Phenacovolva*) *birostris sensu* KIRA, 1959; KURODA, 1960; *Bulla birostris sensu* CERNOHORSKY, 1971; *P. birostris sensu* OKUTANI, 1975; *P. (Calcaria) wakayamaensis sensu* SPRINGSTEEN & LEOBRERA, 1986)

Tsurifune-kinu-zutsumi

- Type locality: none originally given; designated 'off Kashiwajima, southern Shikoku, 91-128m' (CATE, 1973).
- Distribution: Sagami bay and westwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, western Pacific.
- Habitat: 20-150 m., parasitic on *Euplexaura crassa*, *Calicogorgia granulosa*, *Plumarella spinosa*, *P. flabellata* etc.
- Original genus: *Ovulum*.

G1376 *P. (C.) tokioi* CATE, 1973-a

Tokio-kinu-zutsumi (= Shikama-kinu-zutsumi)

- Type locality: 'Cooktown, Queensland, Australia (15° 38' S., 145° 25' E.); below tide line living on gorgonians'.



- Distribution: western Izu islands (Kurose), Kii peninsula, P5, ECP4-ECP2, P2; western Pacific, Australia.
- Habitat: on gorgonians.

G1377 *P. (C.) yoshioi* AZUMA & CATE, 1971-a

Yoshio-kinu-zutsumi

- Type locality: 2-3 km off Cape Kirime, Kii peninsula, central Honshū; 37-55 m.
- Distribution: western Izu islands (Kurose), Kii peninsula, P6-P5, EC5, ECP4.
- Habitat: 30-60 m., on gorgonians.

G1378 *P. (C.) virgo* AZUMA, 1974-a

Otome-kinu-zutsumi

- Type locality: 3-4 km off Cape Kirime, Kii peninsula, central Honshū; 40-50 fms.
- Distribution: recorded only from type locality.

Subgenus *Takasagovolva* AZUMA, 1974-a

Type species: *Phenacovolva (Takasagovolva) gigantea* AZUMA, 1974 (o. d.)

G1379 *P. (T.) gigantea* AZUMA, 1974-a

Daiō-kinu-zutsumi

- Type locality: off southwestern Taiwan: 22° 55' N., 119° 40' E., 80-100 fms.
- Distribution: Kii peninsula, East China Sea (off Danjo islands), P2; Philippines.
- Habitat: 150-200 m., host unknown.

G1380 *P. (T.) honkakuji* (KURODA, 1929 in 1929-31)

Honkakuji-higai

- Type locality: area of Tanabe bay, Kii peninsula, central Honshū.
- Distribution: Bōsō peninsula (Tateyama bay TAMURA & OKUTANI, 1989) and westwards, P7-P5, EC5; South Africa (LILTVED, 1989).
- Habitat: 100-200 m., rubble.
- Original genus: *Radius*.

Subgenus *Kurodaovula* AZUMA, 1987

Type species: *Phenacovolva (Kurodaovula) wakayamaensis* AZUMA, 1987 (o. d.)

G1381 *P. (K.) wakayamaensis* CATE & AZUMA, 1973

Wakayama-kinu-zutsumi

- Type locality: 2-3 km off Minabe, Kii peninsula, central Honshū; 37-55 m.
- Distribution: Kii peninsula and westwards, southern Shikoku; off Taiwan.
- Habitat: 30-200 m.

□ Genus *Volva* RÖDING, 1798

Type species: *Bulla volva* LINNAEUS, 1758 (by tautonymy)  
(= *Radius* MONTFORT, 1810; *Birostra* SWAINSON,

1840)

G1382 *V. volva volva* (LINNAEUS, 1758)

(= *Ovula textoria* RÖDING, 1798; *O. aspersa* PERRY, 1811; *V. cumulata* IREDALE, 1931; *V. lemurica* SCHILDER, 1941)

Tsuma-beni-higai

- Type locality: 'ad *Jamaicani*' (erroneous; see DODGE, 1955 in 1952-59): redesignated 'deep water off Cape Moreton, Moreton Bay, Queensland, Australia (27° 12' S., 153° 12' E.)' (CATE, 1973).
- Distribution: Kii peninsula (YOSHIDA, 1991), Amami Ōshima and southwards, ECP3-ECP2, P2; Philippines, Indo-western Pacific.
- Habitat: 10-100 m., sandy mud and gravel, host unknown.
- Original genus: *Bulla*.

G1383 *V. volva habei* ŌYAMA, 1961-b

(= *Ovula volva sensu* SOWERBY I, 1830; KIENER, 1843; *V. volva sensu* S. HIRASE, 1934; CERNOHORSKY, 1968)

Higai (= Hosoya-higai)

- Type locality: Tatsugahama, Kii peninsula.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5.
- Habitat: 10-100 m., sandy mud, host unknown.

Subfamily **PEDICULARIINAE** H. & A. ADAMS, 1854

□ Genus *Pedicularia* SWAINSON, 1840

Type species: *Pedicularia sicula* SWAINSON, 1840 (mt.)  
(= *Thyreus* PHILIPPI, 1844; *Dentiora* PEASE, 1862; *Pediculariella* THIELE in KUCKENTHAL, 1925; *Pedicularonia* IREDALE, 1935)

G1384 *P. pacifica* PEASE, 1865

(= *P. stylatris* HEDLEY, 1903)

Matsuwari-dakara (= Botan-matsuwari-dakara)

- Type locality: Gilbert islands.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, Izu islands, P7-P5, EC5, ECP4-ECP2; central to western Pacific.
- Habitat: 30-200 m., parasitic on *Stylaster profundiporus*, *S. p. typica*, *Distichopora borealis japonica* etc.

G1385 *P. japonica* DALL, 1891

Nippon-matsuwari-dakara

- Type locality: Japan.
- Distribution: Kii peninsula and southwards, P5, EC5.
- Habitat: 20-150 m., parasitic on *Stylaster*.

Superfamily **VELUTINOIDEA** GRAY, 1840

Family **TRIVIIDAE** TROSCHER, 1863

(Refs.: Cate, 1979)

Subfamily **TRIVIINAE** TROSCHER, 1863

□ Genus *Trivia* BRODERIP, 1837

Type species: *Cypraea europa* MONTAGU, 1808 (s. d.)

GRAY, 1847)

( = *Trivea* SWAINSON, 1840; *Cocinella*

HERRMANNSEN, 1847 non LINNAEUS, 1758)

Subgenus *Niveria* JOUSSEAUME, 1884-a

Type species: *Cypraea nivea* GRAY, 1824 (o. d.)

G1386 *T. (N.) globosa* GRAY in SOWERBY I, 1832 in 1832-41

( = *Trivia sphaerula* MIGHELS, 1845; *T. pisum*

GASKOIN, 1846; *T. brevissima sensu* SOWERBY, 1870;

*T. acutisulcata* KENYON, 1900; *T. cosmoi*

DAUTZENBERG, 1921; *T. pilula* = *?glovosa' sensu*

KURODA, 1928; *T. pisulum* SCHILDER, 1932; *T.*

*bathypilula* IREDALE, 1935; *Trivirosta (Cleotrivia) pilula*

*sensu* KURODA, 1941, 1960; *Niveria pilula sensu*

ARAKAWA in OKUTANI (Ed.), 1986; TAMURA &

OKUTANI, 1989; HIGO & GOTŌ, 1993)

Ko-shiratama ( = Kobushi-shiratama)

• Type locality: none designated.

• Distribution: Bōsō peninsula (Tateyama bay) and southwards, Izu islands (Zenisu), P7-P5, EC5, ECP4-ECP2, P2; Philippines.

• Habitat: intertidal, rubble.

• Original genus: *Cypraea*.

G1387 *T. (N.) vitrea* (GASKOIN, 1849-a)

( = *T. edgari sensu* KURODA, 1928; S. HIRASE, 1934;

*Trivirostra edgari sensu* KURODA, 1941, 1960)

Hadaka-mugi-gai

• Type locality: 'Philippines'.

• Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2.

• Habitat: intertidal to 20 m., coarse sand and stones.

• Original genus: *Cypraea*.

Subgenus *Trivirostra* JOUSSEAUME, 1884-a

Type species: *Cypraea oryza* LAMARCK, 1811 (s. d.

SCHILDER, 1971)

G1388 *T. (T.) oryza* (LAMARCK, 1811 in 1810-11)

( = *Cypraea intermedia* KIENER, 1843; *T. pediculus*

ROBERTS, 1870; *Cypraea (Trivia) grando sensu*

IWAKAWA, 1900-05; *T. minor* SCHEPMAN, 1909 in

1908-13; *T. zzyzyxia* CATE, 1979)

Shiratama-gai ( = Mugi-tsubu-gai)

• Type locality: '*l'Océan asiatique; les côtes de Timor, celles du Senegal*' (Asian seas; coasts of Timor, Indonesia and Senegal, west Africa).

• Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, EC5, ECP4-ECP2; tropical Pacific.

• Habitat: subtidal to 200 m., rocks.

• Original genus: *Volvaria*.

G1389 *T. (T.) edgari* SHAW, 1909-a

( = *Cypraea grando* GASKOIN, 1849-a non POTIEZ &

MICHAUD, 1838; *T. sandvichensis* SOWERBY, 1870

*nom. nud.*; *T. oryzoides* IREDALE, 1935; *T. tomlini*

SCHILDER, 1944)

Wasure-shiratama

• Type locality: 'Manilla' (Manila, Philippines GASKOIN, 1849-a)

• Distribution: Izu islands (Zenisu bank) and westwards, P11, Ogasawara islands, P6-P5, EC5, ECP4-ECP2; Indo-Pacific.

• Habitat: subtidal to 10 m., rubble.

• Original genus: *Trivia*.

G1390 *T. (T.) pellucidula* (REEVE, 1846 in 1843-65)

( = *Cypraea pellucidula* GASKOIN, 1846)

Nagare-bori-shiratama

• Type locality: 'South Pacific'.

• Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, ECP3-ECP2; tropical western Pacific.

• Habitat: 30-200 m., coarse sand and stones.

• Original genus: *Cypraea*.

**Notes:** Reeve's description (March, 1846) pre-dates

Gaskoin's (May). The holotype is from Gaskoin's collection.

G1391 *T. (T.) hordacea* (KIENER, 1843 in 1834-80)

( = *Cypraea australis* GRAY, 1828 non SCHRÖTER,

1804; *C. insecta* MIGHELS, 1845; *T. desirabilis*

IREDALE, 1912; *T. koroensis* LADD, 1934)

Ko-mugi-tsubu-gai

• Type locality: 'la mer de l'Inde, les côtes de l'île Bourbon' (Indian Ocean, coast of Réunion).

• Distribution: Kii peninsula and southwards, P11, Ogasawara islands, P5, ECP3-ECP2; tropical western Pacific.

• Habitat: intertidal, rubble.

• Original genus: *Cypraea*.

G1392 *T. (T.) exigua* (GRAY, 1831 in 1831-44)

( = *Cypraea tremeza* DUCLOS, 1833; *T. gemmula*

GOULD, 1845; *T. corrugata* PEASE, 1860; *T. alba*

SOWERBY, 1914)

Barafu-shiratama ( = Barafu-dama)

• Type locality: 'China'.

• Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, EC5, ECP4-ECP2, P2; Philippines.

• Habitat: intertidal, rubble.

• Original genus: *Cypraea*.

□ Genus *Robertotrivia* CATE, 1979

Type species: *Trivia eos* ROBERTS, 1913 (o. d.)

G1393 *R. eos* (ROBERTS, 1913)

Ō-shiratama

- Type locality: Awa, Chiba prefecture, central Honshū.
- Distribution: Ogasawara islands (Otōtojima FUKUDA, 1995), Izu islands (Zenisu), Bōsō peninsula, Enshū-nada, Kii peninsula, western Kyūshū.
- Habitat: 50-200 m., rubble.
- Original genus: *Trivia*.

G1394 *R. kiiensis* KURODA & CATE in CATE, 1979

Kii-ō-shiratama

- Type locality: Kii strait, off Wakayama prefecture, central Honshū; 'deep water'.
- Distribution: recorded only from type locality.

G1395 *R. opalina* KURODA & CATE in CATE, 1979

Akoya-ō-shiratama

- Type locality: off Kōchi prefecture, southern Shikoku; 185 m.
- Distribution: Kii peninsula, southern Shikoku.
- Habitat: 50-200 m., coarse sand and stones.

G1396 *R. sagamiensis* (KURODA & HABE in KURODA *et al.*, 1971)

Sagami-ō-shiratama (= Sagami-shiratama)

- Type locality: Sagami bay, central Honshū; 35-110 m.
- Distribution: off Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986), Izu islands (Zenisu), Sagami bay, Suruga bay, Kii peninsula (off Kushimoto), southern Shikoku, Japan Sea (Wakasa bay).
- Habitat: 30-200 m., sand.

G1397 *R. speciosa* KURODA & CATE in CATE, 1979

Chirimem-ō-shiratama

- Type locality: Kii strait off Wakayama prefecture, central Honshū.
- Distribution: Kii strait and westwards, southern Shikoku.
- Habitat: 50-200 m., coarse sand and stones.

Subfamily ERATOINAE GILL, 1871

(Refs.: Cate, 1977)

□ Genus *Alaerato* CATE, 1977

Type species: *Lachryma bisinventa* IREDALE, 1931 (o. d.)

G1398 *A. gallinacea* (HINDS, 1844 in 1844-45)

Yase-zakuro

- Type locality: 'New Guinea; Straits of Macassar; in from five to seventeen fathoms'.
- Distribution: Ogasawara islands and westwards, P11, ECP3-ECP2, P2; Philippines, Australia, Indo-Pacific.
- Habitat: IT to 20 m., sand.
- Original genus: *Ovulum*.

□ Genus *Proterato* SCHILDER, 1927

Type species: *Erato neozelanica* SUTER, 1917 (o. d.)

Subgenus *Sulcerato* FINLAY, 1930

Type species: *Erato illota* TATE, 1890 (o. d.)

G1399 *P. (S.) callosa* (ADAMS & REEVE, 1850 in 1848-50)

Zakuro-gai

- Type locality: 'China Sea'.
- Distribution: northeastern Honshū and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2; Korea.
- Habitat: subtidal to 100 m., rocks.
- Original genus: *Erato*.

G1400 *P. (S.) tomlini* SCHILDER, 1933

Shin-zakuro-gai

- Type locality: Japan.
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2.
- Habitat: 10-50 m., sand.

G1401 *P. (S.) pura* KURODA & HABE in KURODA *et al.*, 1971

Mashiro-zakuro (= Miyuki-zakuro)

- Type locality: Sagami bay, central Honshū.
- Distribution: Sagami bay and southwards, P6-P5, Japan Sea (Wakasa bay, J2-J1), EC5, ECP4-ECP2.
- Habitat: 50-300 m., sand.

Subgenus *Eratoena* IREDALE, 1935

Type species: *Ovulum corrugatum* HINDS, 1845 (o. d.; = *Erato sulcifera* SOWERBY II, 1832)

G1402 *P. (E.) sulcifera* (SOWERBY II, 1832 in 1832-41)

(= *Erato corrugatum* HINDS, 1845; *E. nana* SOWERBY, 1859; *E. schmeltziana* CROSSE, 1867; *P. capensis, smithi, schneideri*, all SCHILDER, 1933)

Zakuro-modoki

- Type locality: Cape of Good Hope (South Africa).
- Distribution: Ogasawara islands and westwards, P11, Bōsō peninsula (Tateyama bay TAMURA & OKUTANI, 1989) and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, Indo-Pacific.
- Habitat: intertidal, rocks and coral reefs.
- Original genus: *Erato*.

Family VELUTINIDAE GRAY, 1840

(= LAMELLARIIDAE D'ORBIGNY, 1841)

Subfamily LAMELLARIINAE D'ORBIGNY, 1841

□ Genus *Lamellaria* MONTAGU, 1815

Type species: *Lamellaria tentaculata* MONTAGU, 1815 (s. d. GRAY, 1847; = *Helix perspicua* LINNAEUS, 1758) (= *Marsenia* LEACH in OKEN, 1823; *Cryptothyra* MENKE, 1830; *Cryptocella* H. & A. ADAMS, 1853; *Ermea* GRAY, 1857)

Subgenus *Lamellaria s. str.*

G1403 *L. (L.) setoensis* HABE, 1944-b

Seto-bekkō-tama-gai

- Type locality: Ezura-hama, Shirahama district, Kii peninsula (central Honshū).
- Distribution: Izu peninsula and westwards, southern Shikoku, western Kyūshū.
- Habitat: intertidal, rocks.

G1404 *L. (L.) küiensis* **HABE, 1944-b**

Kishu-bekkō-tama-gai

- Type locality: Bansho-zaki, Shirahama district, Kii peninsula (central Honshū).
- Distribution: Bōsō peninsula and westwards, P11, Ogasawara islands, Kii peninsula, Seto inland sea, P7-P5, Japan Sea (Mishima and southwards, J1), EC5.
- Habitat: intertidal to 60 m., rubble.

G1405 *L. (L.) punctata* (**STIMPSON, 1855**)

- Type locality: 'Ousima' (Amami-Ōshima).
- Distribution: 'Pacific coast, 29° N.' (KURODA & HABE, 1952-a).
- Original genus: *Coriocella*.

**Note:** the species known as Bekkō-tamagai has been cited as *Bulla latens* MÜLLER, 1776 (KIRA, 1946; KURODA, 1960; SHIMIZU, 1971; HIGO & GOTŌ, 1993). *B. latens* was described from Denmark and Norway, and the present authors consider Bekkō-tamagai to be a separate, unnamed species.

Subgenus *Coriocella* **BLAINVILLE, 1824**

Type species: *Coriocella nigra* BLAINVILLE, 1824 (= *Chelynotus* SWAINSON, 1840; *Chelynotus* BERGH, 1853)

G1406 *L. (C.) nigra* (**BLAINVILLE, 1824**)

(= *L. niger sensu* HIGO & GOTŌ, 1993 *err. pro -gra*)

Ibo-bekkō-tama-gai

- Type locality: none designated.
- Distribution: Kii peninsula (Shirahama) and westwards, Seto inland sea; Indo-Pacific.
- Habitat: intertidal under rocks.
- Original genus: *Coriocella*.

**Notes:** *Marseniella mauritiana* BERGH, 1805 (type locality: Mauritius) was recorded from Okinawa (KURODA, 1960); however, the present authors have been unable to confirm distribution of this species in Japan.

Subfamily **VELUTININAE GRAY, 1840**

□ Genus *Velutina* **FLEMING, 1821**

Type species: *Bulla velutina* MÜLLER, 1776 (s. d. GRAY, 1847; = *Helix laevigata* LINNAEUS, 1767)

Subgenus *Velutina s. str.*

G1407 *V. (V.) abyssicola* **OKUTANI, 1964-b**

Sōyō-hana-zuto

- Type locality: 'Sōyō-Maru' sta. B2, 26 miles off Miyake island, Izu islands: 34° 10.0' N., 140° 05.5' E., 1230-1350

m.

- Distribution: off Miyake island (1270 m. OKUTANI, 1968; type locality).

Subgenus *Velutella* **GRAY, 1847**

Type species: *Velutina (Velutella) flexibilis* (LASKER) (o. d.; = *Helix plicatilis* MÜLLER, 1776)

G1408 *V. (Vl.) plicatilis plicatilis* (**MÜLLER, 1776**)

(= *V. sitkensis* A. ADAMS, 1853; *V. cryptospira sensu* KURODA & KINOSHITA, 1951; KURODA & HABE, 1952-a; *V. (Vl.) plicatilis cryptospira sensu* HABE & ITŌ, 1965)

Momo-iro-hana-zuto

- Type locality: Denmark and Norway (from book title).
- Distribution: northeastern Honshū and northwards, P8-P10, OP, Hokkaidō, Okhotsk Sea, Kuril islands; Bering Sea, Arctic Ocean.
- Habitat: intertidal to 377 m.
- Original genus: *Helix*.

G1409 *V. (Vl.) plicatilis cryptospira* **MIDDENDORFF, 1847 in 1847-49**

(= *Velutella coriacea* PALLAS, 1847; *V. coriacea sensu* KURODA & KINOSHITA, 1951)

Usu-kawa-hanazuto

- Type locality: Shantar islands and northern coast of the Okhotsk Sea.
- Distribution: southern Okhotsk Sea, Kuril islands, Hokkaidō, OP, P10-P5, Japan Sea (J5-J1), EC5.
- Habitat: 10-85 m., sand.

G1410 *V. (Vl.) pusio* **A. ADAMS, 1860-c**

(= *V. takatensis* var. YOKOYAMA, 1922; *Philine otsuensis* YOKOYAMA *sensu* HABE, 1965)

Hana-zuto-gai

- Type locality: Korea strait, 63 fms.
- Distribution: Fukushima prefecture and southwards, P7-P5, Japan Sea (off central Niigata prefecture, J3-J1), EC5.
- Habitat: intertidal to 250 m., sand and seaweed.

□ Genus *Limneria* **H. & A. ADAMS, 1851**

Type species: *Axinus undata* BROWN, 1841

G1411 *L. conica* (**DALL, 1886**)

(= *Velutina conica* var. KURODA & KINOSHITA, 1951) Seitaka-hana-zuto (= Koshitaka-hana-zuto)

- Type locality: Kadiak, Unalaska, Alaska.
- Distribution: Hokkaidō, Japan Sea (Wakasa bay and northwards, J2-J5), P10-OP, Kuril islands; Alaska.
- Habitat: intertidal to 200 m., sand.
- Original genus: *Velutina*.

G1412 *L. bulla* **HABE, 1958-j**

Maru-hana-zuto

- Type locality: off Yoichi, southern Hokkaidō.

- Distribution: off Chōshi (Chiba prefecture, central Honshū), P7-P10, Japan Sea (off Fukui prefecture and northwards, J2-J5).

- Habitat: subtidal to 250 m., sand.

□ Genus *Marsenina* GRAY, 1850

Type species: *Oxinoe glabra* COUTHOUY, 1838  
(= *Oithonella* MÖRCH, 1856)

G1413 *M. rhombica* (DALL, 1871)

Hishi-bekkō-tamagai

- Type locality: Monterey, California.
- Distribution: Hokkaidō (Wakkanai), Kuril islands; Sakhalin, coastal northern Pacific.
- Habitat: subtidal to 60 m.
- Original genus: *Velutina*.

G1414 *M. uchidai* (HABE, 1958-j)

Uchida-bekkō-tamagai (= Uchida-bekkō-gai)

- Type locality: Akkeshi bay, Hokkaidō; 'shallow waters'.
- Distribution: Hokkaidō, Kuril islands P10-OP; Sakhalin.
- Habitat: intertidal to 20 m., under rubble at low water or in seaweed Ascidiaceae compositae.
- Original genus: *Lamellaria*.

□ Genus *Onchidiopsis* BERGH, 1853

Type species: *Onchidiopsis groenlandica* BERGH, 1853  
Subgenus *Onchidiopsis s. str.*

G1415 *O. (O.) nihonkaiensis* OKUTANI & NUMANAMI, 1993

Sarasa-bekkō-tamagai

- Type locality: Ryotsu cove, Sado Island (Japan Sea); 400-500 m.
- Distribution: recorded only from type locality.

Subgenus *Rostronchidiopsis* GOLIKOV, 1995

Type species: *Lamellaria glacialis* M. SARS, 1851 (o. d.)

G1416 *O. (R.) glacialis* (M. SARS, 1850)

Kara-awamochi-gai

- Type locality: 'Hammerfest' and 'Havosund' (northern Norway), 30-40 fms.
- Distribution: Hokkaidō (Akkeshi, KUWAHARA, 1992) and northwards; Arctic Ocean, Greenland, northern Norway.
- Habitat: subtidal to 180 m.
- Original genus: *Lamellaria*.

□ Genus *Capulacmaea* M. SARS, 1859

(= *Pilidium* MIDDENDORFF, 1851 non FORBES, 1849)  
Type species: *Pilidium radiata* M. SARS, 1859 (= *Pilidium commoda* MIDDENDORFF, 1849)

G1417 *C. commoda* (MIDDENDORFF, 1849 in 1847-49)

(= *Capulus depressus* A. ADAMS, 1861; *Pilidium radiata* M. SARS, 1859)

Kinu-katsugi-katsura-gai

- Type locality: 'Die grosse Schantar-Insel' (the larger of the Shantar islands, eastern Okhotsk Sea).

- Distribution: Hokkaidō (KURODA & KINOSHITA, 1951); Bering Sea, Okhotsk Sea.

- Original genus: *Pilidium*.

□ Genus *Pseudoacculus* S. HIRASE, 1928

Type species: *Pseudosacculus okai* S. HIRASE, 1927  
(= *Sacculus sensu* S. HIRASE, 1927)

G1418 *P. okai* (S. HIRASE, 1927)

- Type locality: northwestern Pacific.
- Distribution: taken on Ascidiacea by R. V. 'Albatross' in northwestern Pacific.
- Original genus: *Sacculus*.

Superfamily NATICOIDEA FORBES, 1838

Family NATICIDAE FORBES, 1838

Subfamily AMPULLOSPIRINAE COX, 1931

□ Genus *Amauropsis* MÖRCH, 1857

Type species: *Nerita islandica* GMELIN, 1791  
(= *Choristes* CARPENTER in DAWSON, 1872)

G1419 *A. purpurea* DALL, 1871

(= *A. islandica sensu* HABE & ITŌ, 1965)

Murasaki-hokkyoku-tamagai

- Type locality: Norton Sound, Alaska.
- Distribution: 'Japan Sea coast at 52° N.' (KURODA & HABE, 1952-a); Alaska.

Subfamily GLOBISININAE POWELL, 1933

□ Genus *Bulbus* BROWN in SMITH, 1839

(= *Acrybia* H. & A. ADAMS, 1853)

G1420 *B. flavus flavus* (GOULD, 1840)

(= *Natica aperta* LOVÉN, 1846; *N. fragilis* LEACH, 1819 nom. nud.; *N. tenuicula* SOWERBY, 1915; *Bulbus (sic)*

*tenuiculus sensu* KURODA & KINOSHITA, 1951; KURODA & HABE, 1952-a; *B. fragilis 'aperta' sensu* KURODA & KINOSHITA, 1951; KURODA & HABE, 1952-a; *B. tenuiculus sensu* HABE, 1964; *B. fragilis apertus sensu* SAKURAI, 1986; *B. tenuiculus sensu* HIGO & GOTŌ, 1993)

- Type locality: unclear; 'stomachs of fish' originally given; amended to 'Grand Banks fishing ground' (off eastern USA) in GOULD, 1841, but types are lost.
- Distribution: northeastern Honshū (off Ōfunato, Iwate prefecture, 492-504 m.), Hokkaidō, Okhotsk Sea.
- Original genus: *Natica*.

**Notes:** perhaps a group of species; Lovén's *N. aperta* is from northern Norway, *N. fragilis* from Baffin Bay, *N. tenuicula* from 'Nomuro' (Nemuro, Hokkaidō).

G1421 *B. flavus elongatus* HABE & ITŌ, 1965-b

Naga-kuri-gai

- Type locality: Nemuro, Hokkaidō.

- Distribution: Hokkaidō and northwards, P10, OP, northern Japan Sea (J5-J6), Kuril islands; Sakhalin.
- Habitat: 50-200 m., sandy mud.

Subfamily **POLINICINAE GRAY, 1847**

□ Genus ***Lunatia* GRAY, 1847**

Type species: *Natica ampullarius* LAMARCK, 1822

G1422 ***L. pila pila* (PILSBRY, 1911)**

Tama-tsumeta

- Type locality: Kushiro and Akkeshi, Hokkaidō.
- Distribution: Kashima-nada and northwards, P8-P10, Japan Sea (northern Yamaguchi prefecture FUKUDA *et al.*, 1992, J1-J5), Kuril islands; Korea, Okhotsk Sea.
- Habitat: 10-150 m., sandy mud.
- Original genus: *Polinices*.

G1423 ***L. pila ovata* (SOWERBY III, 1914-c)**

Koshidaka-tama-tsumeta

- Type locality: 'Hidaka, Japan' (Hidaka region, southeastern Hokkaidō).
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, Hokkaidō, Kuril islands.
- Habitat: 10-50 m., fine sand.
- Original genus: *Natica*.

G1424 ***L. pallida* (BRODERIP & SOWERBY, 1829)**

(= *L. groenlandica sensu* FILATOVA & ZATSEPIN, 1948)

Usu-iro-tama-tsumeta (= Usu-iro-tama-gai)

- Type locality: 'in Oceano Arctico. From Icy Cape' (near Wainwright, northwestern Alaska).
- Distribution: Suruga bay and northwards, central Honshū (Izu islands; Sagami bay; Kashima-nada; Enshū-nada OKUTANI, 1964-b; 1966; 1968), Bōsō peninsula (TSUCHIDA & KUROSUMI, 1995-b), P6-P10, Japan Sea (Wakasa bay, J2-J6), Hokkaidō; Arctic region.
- Habitat: 50-2433 m., sandy mud.
- Original genus: *Natica*.

G1425 ***L. plicispira* KURODA, 1961-a**

Kizami-tama-tsumeta

- Type locality: Tosa bay, southern Shikoku.
- Distribution: Suruga bay and southwards, P6-P5 (Sagami bay OKUTANI, 1964-b), Japan Sea (Noto peninsula, J2-J1), EC5.
- Habitat: 50-700 m., sandy mud.

G1426 ***L. choshiensis* (CHIBA, 1985-a)**

Chōshi-tama-tsumeta (= Kobeso-hai-iro-tsumeta)

- Type locality: off Cape Erimo, southern Hokkaidō; 200-250 m.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and northwards, P8-P10, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J5), Hokkaidō, OP; Okhotsk Sea.

- Habitat: 200-250 m., sandy mud.
- Original genus: *Euspira*.

G1427 ***L. fortunei* (REEVE, 1855 in 1843-65)**

Saki-guro-tama-tsumeta

- Type locality: 'Shanghai, China'.
- Distribution: Mie prefecture (Matsuzaka), western Seto inland sea (TORIGOE, 1988), western Kyūshū (Ariake inland sea); Korea, China.
- Habitat: tidal flats, mud.
- Original genus: *Natica*.

G1428 ***L. nux* OKUTANI, 1964-b**

Tane-tama-tsumeta

- Type locality: 'Sōyō-Maru' sta. 17, Kashima-nada, off Ibaraki prefecture, central Honshū: 36° 19.7' N., 141° 09.0' E., 870 m.
- Distribution: recorded only from type locality.

G1429 ***L. bathyraphe* (PILSBRY, 1911)**

Ori-ire-shiratama

- Type locality: Fukura, Awaji island, eastern Seto inland sea.
- Distribution: Suruga bay and southwards, P6-P5, Japan Sea (Sado island, J3-J1), EC5, ECP4-ECP2.
- Habitat: 5-30 m., sand.
- Original genus: *Polinices*.

G1430 ***L. yokoyamai* (KURODA & HABE, 1952-a)**

(= *Polinices pallidus* YOKOYAMA, 1920 non BRODERIP & SOWERBY, 1829)

Yokoyama-ori-ire-shiratama (= Yokoyama-tama-tsumeta)

- Type locality: Koshiba, Yokohama City, central Honshū (fossil).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5.
- Habitat: 70-100 m., sand.
- Original genus: *Polinices*.

G1431 ***L. sagamiensis* KURODA & HABE in KURODA *et al.*, 1971**

Sagami-ori-ire-shiratama (= Isasa-ori-ire-shiratama)

- Type locality: Sagami bay, central Honshū; ± 100 m.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, EC5.
- Habitat: 50-760 m., sandy mud.
- Original genus: *Euspira*.

G1432 ***L. miyatensis* (ŌYAMA, 1952)**

Miyata-tama-tsumeta

- Type locality: Miyata bed, Miura City, eastern Sagami bay (fossil).
- Distribution: off Chōshi (Chiba prefecture, central Honshū), Tōkyō bay, Japan Sea (off central Niigata prefecture; Sado island).
- Habitat: 150-250 m., sandy mud.

- Original genus: *Euspira*.

□ Genus *Pseudopolinices* GOLIKOV & SIRENKO, 1983

Type species: *Natica nana* MÖLLER, 1842 (o. d.)

G1433 *Ps. nana* (MÖLLER, 1842)

Shiro-obi-tama-tsumeta

- Type locality: Greenland.
- Distribution: Kii strait (TSUCHIDA, 1985-b), Sagami bay (1005-1520 m. OKUTANI, 1966; 1968), Izu islands (Miyake island OKUTANI, 1964-b; off Izu-Ōshima, 620-720 m. OKUTANI, 1966), Bōsō peninsula (TSUCHIDA & KUROZUMI, 1995-b), Hokkaidō, Kuril islands, Arctic Ocean, Greenland.
- Habitat: 50-100 m., mud.
- Original genus: *Natica*.

□ Genus *Polinices* MONTFORT, 1810 in 1808-10

Type species: *Nerita mammilla* LINNAEUS, 1758  
(= *Albula* RÖDING, 1798 non OSBECK, 1762; *Polynices* MENKE, 1830; *Naticina* GUILDING, 1834; *Naticella* GUILDING in SWAINSON, 1840; *Mamma* KLEIN in MÖRCH, 1852; *Pollinices* MÖRCH, 1852 nom. null.; *Uber* HUMPHREY in DUNKER, 1882)

G1434 *P. mammilla* (LINNAEUS, 1758)

Tomi-gai (Rō-iro-tomi-gai)

- (= *Natica tumidus* RÉCLUZ, 1840; *N. pyriformis* RÉCLUZ, 1844; *N. albula* RÉCLUZ, 1851; *N. ponderosa* PHILIPPI, 1852; *N. cygnea* PHILIPPI, 1852; *N. mellosa* HEDLEY, 1924; *P. pyriformis sensu* S. HIRASE, 1934; KIRA, 1962; HABE & KOSUGE, 1967; *P. tumidus sensu* CERNOHORSKY, 1972; OKUTANI, 1975, 1986; ABBOTT & DANCE, 1982; HIGO & GOTŌ, 1993)
- Tomi-gai
- Type locality: 'ad Barbados' (erroneous).
- Distribution: Suruga bay and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Indo-western Pacific, Australia.
- Habitat: 10-30 m., sand and coral sand.
- Original genus: *Nerita*.

G1435 *P. peselephanti* (LINK, 1807 in 1806-08)

- (= *Natica alba* GRAY, 1827 non MONTFORT, 1810; *N. powisiana*, *cumingiana*, *columnaris*, all RÉCLUZ, 1844)
- Komanju-gai (= Ō-tama-tsubaki)
- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2; Indo-western Pacific.
- Habitat: 10-50 m., sand.
- Original genus: *Natica*.

G1436 *P. vestitus* KURODA, 1961-a

Kinukatsugi-tama-tsubaki (= Waka-tama-tsubaki; Kinukatsugi-tama-tsumeta)

- Type locality: Tosa bay, southern Shikoku.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, EC5.
- Habitat: 10-50 m., sand.

G1437 *P. sagamiensis* PILSBRY, 1904-b

Uchiyama-tama-tsubaki

- Type locality: Hayama, eastern Sagami bay, central Honshū.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2; Philippines.
- Habitat: 10-40 m., fine sand.

G1438 *P. albumen* (LINNAEUS, 1758)

Manju-gai

- Type locality: 'in O. Asiae' (Asian seas).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2; Indo-western Pacific.
- Habitat: subtidal to 70 m., fine sand.
- Original genus: *Nerita*.

G1439 *P. candidissimus* (LE GUILLOU, 1842)

(= *Natica jukesii* REEVE, 1855 in 1843-65)

Muku-manju-gai (= Maru-tama-tsubaki)

- Type locality: 'Vavao' (Vava'u islands, Tonga).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5; southeast Asia.
- Habitat: 10-50 m., sand.
- Original genus: *Natica*.

G1440 *P. citrinus* (PHILIPPI, 1853 in 1849-53)

Remon-tama-tsubaki

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2.
- Habitat: intertidal to 10 m., sand.
- Original genus: *Natica*.

G1441 *P. flemingianus* (RÉCLUZ, 1844)

(= *Natica virginea* PHILIPPI, 1852)

Heso-aki-tomi-gai

- Type locality: Sorgoson, Luzon, Philippines.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Natica*.

G1442 *P. vavaosi* (REEVE, 1855 in 1843-65)

Shiro-heso-aki-tomi-gai

- Type locality: 'Island of Vavao, South Pacific' (Vava'u islands, Tonga).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-western Pacific, Australia.
- Habitat: 10-30 m., sand and coral sand.

- Original genus: *Natica*.

G1443 *P. aurantius* (RÖDING, 1798)

(= *Natica straminea* RÉCLUZ, 1844; *N. sulphurea* RÉCLUZ, 1844; *P. (Mamillaria) aurantia straminea sensu* KURODA, 1928; *P. flemingianus sensu* KIRA, 1959; *P. stramineus sensu* HIGO & GOTŌ, 1993)

Kihada-tomi-gai (= Ukon-tomi-gai)

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, western Pacific.
- Habitat: intertidal to 10 m., coral sand.
- Original genus: *Albula*.

G1444 *P. effusus* SWAINSON, 1822 in 1820-33

Kubire-tomi-gai

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2.
- Habitat: 50-100 m., sand.

□ Genus *Glossaulax* PILSBRY, 1929

Type species: *Neverita reclusiana* DESHAYES, 1841 (= *reclusiana auct.*)

G1445 *G. didyma didyma* (RÖDING, 1798)

(= *Natica glaucina* LAMARCK, 1822 in 1815-22 non LINNAEUS, 1758; *N. chemnitzii* RÉCLUZ in CHENU, 1843; *N. petiveriana* RÉCLUZ in CHENU, 1843; *N. lamareckiana* REEVE, 1855 in 1843-65; *N. problematica* REEVE, 1855 in 1843-65; *N. robusta* DUNKER, 1860; *N. ampla sensu* IWAKAWA, 1900-05)

Tsumeta-gai (= Tenjiku-tsumeta)

- Type locality: none designated.
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea, China, southeast Asia, Indo-western Pacific.
- Habitat: intertidal to 100 m., in bays, fine sand.
- Original genus: *Albula*.

G1446 *G. didyma ampla* (PHILIPPI, 1849-b)

Fukuro-tsumeta (= Nakayama-tsumeta)

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, EC5.
- Habitat: intertidal to 50 m., fine sand.
- Original genus: *Natica*.

G1447 *G. didyma hosoyai* (KURODA & KIRA in KIRA, 1959-a)

Hosoya-tsumeta

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5; Korea.
- Habitat: 10-30 m., sand.

G1448 *G. didyma hayashii* (AZUMA, 1961-a)

Hayashi-tsumeta

- Type locality: off Isshiki, Aichi prefecture, central Honshū.
- Distribution: Sagami bay and westwards, Enshū-nada, Kii peninsula, southern Shikoku, western Kyūshū.
- Habitat: 10-50 m., fine sand.
- Original genus: *Neverita* (*Glossaulax*).

G1449 *G. bicolor* (PHILIPPI, 1849-b)

Somewake-tsumeta (= Sasoi-tsumeta)

- Type locality: 'Mare chinense' (China sea).
- Distribution: western Kyūshū and southwards, southern Shikoku, P5, EC5, ECP4-ECP2, P2; Korea.
- Habitat: 10-30 m., fine sand.
- Original genus: *Natica*.

G1450 *G. reiniana* (DUNKER, 1877)

Hana-tsumeta

- Type locality: Japan.
- Distribution: Bōsō peninsula and southwards, P7-P5, Ōsaka bay (OKAMURA & KOJIMA, 1984), Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea; Korea.
- Habitat: 10-50 m., fine sand.
- Original genus: *Neverita*.

G1451 *G. vesicalis* (PHILIPPI, 1849-b)

(= *Polinices* (*Neverita*) *didyma problematica sensu* KURODA, 1928)

Hime-tsumeta (= Hiro-beso-tsumeta)

- Type locality: 'Canton' (China).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5; Korea, China.
- Habitat: 10-50 m., fine sand.
- Original genus: *Natica*.

□ Genus *Mammilla* SCHUMACHER, 1817

Type species: *Nerita melanostoma* GMELIN, 1791 (= *Naticaria* SWAINSON, 1840; *Ruma* CHEMNITZ in GRAY, 1847; *Reuma* CHEMNITZ in RÉCLUZ, 1851 *nom. null.*; *Mammilla auct.*)

G1452 *M. melanostoma* (GMELIN, 1791)

(= *Natica opaca* RÉCLUZ, 1851; *N. putamen* MÖRCH, 1852; *N. zonata* PHILIPPI, 1852; *N. succineoides* REEVE, 1855 in 1843-65; *Polinices opacus sensu* KURODA, 1941; KURODA & HABE, 1952-a; *M. opaca sensu* KURODA, 1960; HABE & KOSUGE, 1967; OKUTANI, 1975, 1986; *M. opacus sensu* KIRA, 1962)

Risu-gai

- Type locality: 'in mari Indico'.
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands and westwards, P7-P5, EC5, ECP4-ECP2; western Pacific.
- Habitat: 10-30 m., sand.
- Original genus: *Nerita*.



G1453 *M. kurodai* (Iw. TAKI, 1943)

(= *Natica macrostoma* PHILIPPI, 1852 non RÖMER, 1836; *N. macrostoma sensu* PILSBRY, 1886; SOWERBY, 1887 in 1842-87; '*Sigaretus (Eunaticina) oblongus*' sensu YOKOYAMA, 1922; *Polynices (Mammilla) "macrostoma PHILIPPI"* sensu Iw. TAKI, 1938)

Ō-nezumi-gai

- Type locality: Onomichi, Hiroshima prefecture (western Seto inland sea).
- Distribution: Sagami bay and westwards, P6-P5, Seto inland sea, EC5; 'Philippine and southern seas' (TAKI, 1943).
- Habitat: 20-70 m., fine sand.
- Original genus: *Polynices (Mammilla)*.

G1454 *M. mikawaensis* AZUMA, 1961-a

Mikawa-nezumi-gai

- Type locality: off Isshiki, Aichi prefecture, central Honshū.
- Distribution: Enshū-nada and westwards, southern Shikoku.
- Habitat: 10-30 m., fine sand.

G1455 *M. maura* (LAMARCK, 1816-a)

(= *Polinices nuxcastanea* 'MARTYN' sensu HEDLEY, 1913; KURODA, 1928; S. HIRASE, 1934)

Kuri-iro-risu-gai

- Type locality: none designated.
- Distribution: southern Shikoku and southwards, P5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: 10-30 m., level sand.
- Original genus: *Natica*.

G1456 *M. simiae* (DESHAYES in LAMARCK, 1838 in 1835-45)

(= *Natica sigaretina* MENKE, 1828 non J. SOWERBY, 1824; *N. samarensis* RÉCLUZ, 1844; *Polinices propesimniae* IREDALE, 1929; *P. plumatilis* IREDALE, 1936; *M. simiae sensu* OKUTANI, 1975, 1986)

Nezumi-gai

- Type locality: 'la Nouvelle-Zélande (Chemnitz)' (New Zealand).
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands and westwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2, P2; Philippines, western Pacific, Australia.
- Habitat: 10-30 m., sandy mud.
- Original genus: *Natica*.

G1457 *M. mammata* (RÖDING, 1798)

(= *M. fasciata* SCHUMACHER, 1817; *Natica filosa* REEVE, 1855 non PHILIPPI, 1845; *Uber fasciatum sensu* HEDLEY, 1924; *Polinices (Mammilla) fibrosa* (EYDOUX & SOUYLEYET, 1852) sensu WILSON, 1993)

Nunome-risu-gai

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, western Japan Sea (Yamaguchi prefecture FUKUDA & FUKUDA, 1990), EC5; western Pacific, southeast Asia, northern Australia.
- Habitat: 10-50 m., sand.
- Original genus: *Albula*.

G1458 *M. sebae* (RÉCLUZ, 1844-b)

Yuki-nezumi-gai

- Type locality: 'St. Nicolas, island of Zebu (Cebu), Philippines; found under stones'.
- Distribution: Kii peninsula and southwards, P5, EC5; Indo-Pacific, China.
- Habitat: 10-50 m., sand.
- Original genus: *Natica*.

G1459 *M. melanostomoides* (QUOY & GAIMARD, 1833)

Hiro-kuchi-risu-gai

- Type locality: 'la Nouvelle-Guinée et la Nouvelle-Irlande' (New Guinea and New Ireland, Papua New Guinea).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2; Indo-western Pacific.
- Habitat: 10-30 m., sand.
- Original genus: *Natica*.

G1460 *M. priamus* (RÉCLUZ, 1844-b)

Ki-nezumi-gai

- Type locality: 'Moluccas' (Maluku, Indonesia) and 'Île de France' (Mauritius).
- Distribution: Kii peninsula and southwards, P5, EC5; Indonesia.
- Habitat: 10-50 m., sand.

**Notes:** the two syntypes in the BMNH apparently represent two distinct species. One is probably *Natica bifasciata* GRIFFITH & PIDGEON (Marc Streitz, 1995 - note in BMNH).

Subfamily NATICINAE FORBES, 1838

□ Genus *Natica* SCOPOLI, 1777

Type species: *Nerita vitellus* LINNAEUS, 1758

(= *Neritoides* MEUSCHEN, 1779; *Cochlis* RÖDING, 1798; *Nacca* RISSO, 1826; *Notocochlis* POWELL, 1933)

G1461 *N. vitellus vitellus* (LINNAEUS, 1758)

(= *Nerita leucozonias* GMELIN, 1791; *Cochlis albula* RÖDING, 1798; *C. rufescens* RÖDING, 1798; *N. fuscata* LINK, 1807; *N. helvacea* LAMARCK, 1822 in 1815-22; *N. pallens* PHILIPPI, 1849; *N. globosa* PHILIPPI, 1855; *N. rufa sensu* IWAKAWA, 1919; *N. vitellus spadicea sensu* S. HIRASE, 1934)

Tora-dama

- Type locality: 'in O. Asiae' (Asian seas).

- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-western Pacific.
- Habitat: 20-50 m., fine sand.
- Original genus: *Nerita*.

G1462 *N. vitellus spadicea* (GMELIN, 1791)

Hiro-tora-dama

- Type locality: 'ad littora insulae S. Mauritii' (coast of Mauritius).
- Distribution: Bōsō peninsula and southwards, P7-P5, southern Kyūshū, ECP4-ECP2, P2; southeast Asia.
- Habitat: 20-50 m., fine sand.
- Original genus: *Nerita*.

G1463 *N. lactebasis* KURODA, 1961-a

(= *N. lactebasis* (*sic*) sensu AZUMA, 1961)

Shiro-suso-dama

- Type locality: off southern Shikoku at over 150 fms.
- Distribution: Bōsō peninsula and westwards to southern Shikoku.
- Habitat: 100-150 m., sand.

G1464 *N. nipponensis* KURODA, 1961-a

Nippon-tama-gai

- Type locality: Tosa bay, southern Shikoku; 40-70 fms.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and westwards, P7-P5, Japan Sea (south off Mishima, J2-J1), EC5, East China Sea.
- Habitat: 50-200 m., sand.

G1465 *N. kawamurai* SAKURAI, 1983-a

Amagumo-tama-gai

- Type locality: off Kashiwajima, southwestern Shikoku; 50 m.
- Distribution: Kashiwajima, East China Sea.
- Habitat: 30-100 m., sand.

G1466 *N. saitoi* KURODA & HABA in KURODA, HABA & ŌYAMA, 1971

Saitō-tama-gai

- Type locality: Sagami bay, central Honshū; ± 100 m.
- Distribution: Sagami bay, Izu islands (off Kurose).
- Habitat: 70-200 m., sand.

G1467 *N. bibalteata* SOWERBY III, 1914-c

Futa-suji-tama-gai

- Type locality: Nagasaki, western Kyūshū.
- Distribution: Kii peninsula and southwards, P5, EC5.
- Habitat: intertidal to 30 m., sand.

G1468 *N. arachnoidea* (GMELIN, 1791)

(= *N. raynoldiana* RÉCLUZ, 1843)

Murakumo-tama-gai

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific.

- Habitat: subtidal, sand.
- Original genus: *Nerita*.

G1469 *N. fasciata* (RÖDING, 1798)

(= *N. solida* BLAINVILLE, 1825; *N. cinnamomea* MENKE, 1830; *N. lupinus* DESHAYES in LAMARCK, 1838; *N. solida sensu* IWAKAWA, 1919; KURODA, 1928, 1960; KURODA & HABA, 1952-a; HABA, 1964; SAKURAI, 1986)

Kuchiguro-tama-gai

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-western Pacific, Australia.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Cochlis*.

G1470 *N. labrotincta* SOWERBY III, 1914-b

Sumire-dama

- Type locality: Cebu, Philippines.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2; western Pacific.
- Habitat: intertidal to 30 m., sand.

G1471 *N. stellata* HEDLEY, 1913 in 1906-23

(= *N. vitellus auct. non* LINNAEUS, 1758)

Kohaku-dama

- Type locality: none designated. Hedley assigned specimens previously described as *Nerita* (now *Natica*) *vitellus* LINNAEUS to *Nerita* (now *Natica*) *stellatus* MARTYN: Universal Conchologist, vol. 3 (1776): pl. 110, left figure. This name is not taxonomically valid (ICZN op. 456), so Hedley becomes the original author.
- Distribution: Amami islands and southwards, ECP3, ECP2; Indo-western Pacific.
- Habitat: intertidal to 20 m., sand.

G1472 *N. burasiensis* RÉCLUZ, 1844-b

(= *Natica* sp. cf. *trailli* (*sic*) sensu KURODA, 1928; *N. traillii sensu* ABBOTT & DANCE, 1982; HIGO & GOTŌ, 1993)

Kasumi-tama-gai (= Kasumi-kodama)

- Type locality: 'Island of Burias, Philippines; found in sandy mud at eleven fathoms'.
- Distribution: Sagami bay and southwards, P6-P5, EC5; Philippines, Indo-western Pacific.
- Habitat: 20-100 m., sandy mud.
- Notes:** the type of this species probably no longer exists (K. Way, BMNH pers. comm.)

G1473 *N. affinis* (GMELIN, 1791)

- Type locality: 'in Oceano septentrionali' ('Northern Ocean').
- Distribution: 'Pacific coast' (KURODA & HABA, 1952-a).
- Original genus: *Nerita*.

G1474 *N. suffusa* REEVE, 1855 in 1843-65

Ko-murasaki-tama-gai

- Type locality: 'New Ireland' (Papua New Guinea).
- Distribution: 'Pacific coast, 0-26° N.' (KURODA & HABE, 1952-a); Indo-western Pacific, Australia.

G1475 *N. tabularis* KURODA, 1961-a

(= *Tanea tabularis sensu* HIGO, 1973; Y. MATSUMOTO, 1979 *err. pro -ularis*)

Shishi-dama

- Type locality: off Cape Daiō, entrance of Ise bay, central Honshū; 60-100 m.
- Distribution: Enshū-nada and westwards, Kii peninsula, southern Shikoku, western Kyūshū.
- Habitat: 50-100 m., fine sand.

G1476 *N. gualtieriana* RÉCLUZ, 1844-b

(= *Natica macrochiensis* QUOY & GAIMARD, 1833 *non* GMELIN, 1791; *N. tessellata* PHILIPPI, 1849; *N. antonii* PHILIPPI, 1852; *N. lurida* PHILIPPI, 1852; *N. rufilabris* REEVE, 1845; *N. marochisis (sic) lurida sensu* IWAKAWA, 1919; *N. marochisis livida sensu* IWAKAWA, 1919; *N. rufilabris sensu* KURODA, 1928, 1941; S. HIRASE, 1934; *Natica (Notocochlis) rufilabris sensu* KURODA, 1941; *No. lurida sensu* KURODA, 1960; HABE, 1964; ŌYAMA, 1969; *Tectonatica lurida sensu* HABE & KOSUGE, 1967; *Cryptonatica lurida sensu* KURODA *et al.*, 1971; *Natica lurida sensu* SAKURAI, 1986; FUKUDA, 1993; WILSON, 1993)

Hōshū-no-tama

- Type locality: 'Sual, province of Pangasinan, island of Luzon; found at five to seven fathoms, on sand' (Philippines).
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, Japan Sea (off Mishima, J2-J1), ECP4-ECP2; southwestern Pacific.
- Habitat: subtidal to 20 m., sand.

□ Genus *Naticarius* DUMÉRIL, 1806

Type species: *Nerita canrena* LINNAEUS, 1758 (mt.)

(= *Naticus* MONTFORT, 1810)

G1477 *Na. sertata* (MENKE, 1843)

(= *Natica colliei* RÉCLUZ, 1844; *N. maheensis* REEVE, 1855 in 1843-65; *non mahesiensis* DUFO, 1840; *N. seychellium* WATSON, 1879; '*Natica* sp. (*maheense* REEVE, 1855 *var.?*)' *sensu* KURODA, 1928; *N. seychellium sensu* KURODA & HABE, 1952-a; *N. amamiensis sensu* HIGO, 1973; *N. seychellum (sic) sensu* HIGO, 1973; *N. (Naticarius) colliei sensu* WILSON, 1993)

- Type locality: '*in litori occidentali*' ('western shores', of Australia).
- Distribution: Okinawa; Indo-western Pacific, Australia.
- Original genus: *Natica*.

**Notes:** Yosuji-tama-gai *Natica lineozona* JOUSSEAUME, 1874 and Midare-shima-tama-gai *Natica zonalis* RÉCLUZ, 1851-a are possibly present in Okinawa, but the present authors have been unable to confirm this.

G1478 *Na. onca* (RÖDING, 1798)

(= *Cochlis pavementum* RÖDING, 1798; *Natica litterata* LINK, 1807; *N. chinensis* LAMARCK, 1816; *N. candida* WOOD, 1825; *N. chinensis sensu* IWAKAWA, 1919; KURODA, 1928; S. HIRASE, 1934)

Ara-gomafu-dama

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Australia.
- Habitat: offshore sandbanks, intertidal to 20 m.
- Original genus: *Cochlis*.

G1479 *Na. concinnus* (DUNKER, 1860)

(= *Natica colliei sensu* IWAKAWA, 1919; *Na. concinnus sensu* HIGO & GOTŌ, 1993 *err. pro -innus*)

Furo-gai-damashi

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5; southern Korea and southwards.
- Habitat: subtidal to 50 m., sand.
- Original genus: *Natica*.

G1480 *Na. excellens* AZUMA, 1961-a

Hime-furo-gai

- Type locality: off Isshiki, Aichi prefecture, central Honshū; ± 50 fms.
- Distribution: Enshū-nada and westwards, P6-P5, EC5.
- Habitat: 20-100 m., sand.

G1481 *Na. alapapilionis* (RÖDING, 1798)

(= *Natica zonaria* LAMARCK, 1816; *N. crenata* RÉCLUZ, 1853)

Furo-gai (= Hotei-gai)

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (J1), northwestern Kyūshū, EC5, ECP4-ECP2; tropical Indo-Pacific.
- Habitat: intertidal to 70 m., sand.
- Original genus: *Cochlis*.

G1482 *Na. orientalis* (GMELIN, 1791)

(= *Cochlis explanata* RÖDING, 1798; *Natica eburnea* DESHAYES, 1838)

Tōyō-tama-gai

- Type locality: '*in maribus orientalibus*' (eastern seas).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-western Pacific, Australia.

- Habitat: intertidal to 30 m., sand.
- Original genus: *Nerita*.

G1483 *Na. articulatus* (PHILIPPI, 1852 in 1849-53)  
(= *Naticarius* sp. *sensu* Y. MATSUMOTO, 1979; HIGO & GOTŌ, 1993)

Shiro-kuchi-furo-gai

- Type locality: 'Zanzibar und die Seschellen' (Zanzibar and the Seychelles, Indian Ocean).
- Distribution: Enshū-nada and westwards, Mie prefecture (Anori); Indian Ocean.
- Habitat: 30-50 m., sand.
- Original genus: *Natica*.

**Notes:** Hayashi-furo-gai *Naticarius hayashii* 'AZUMA' *sensu* SHIKAMA & HORIKOSHI, 1963 (locality: off Shima, Mie prefecture) is figured (p. 42, fig. 5) with only the name and locality; the present authors have been unable to find a description or an earlier reference. It is here considered a *nomen dubium*.

□ Genus *Tanea* MARWICK, 1931

Type species: *Natica zelandica* QUOY & GAIMARD, 1832 (o. d.)

G1484 *T. pavimentum* (RÉCLUZ, 1844-b)  
(= *Natica parvimentum sensu* KURODA & HABE, 1952-a; HIGO & GOTŌ, 1993 *err. pro pavi-*)

Mozaiku-tama-gai

- Type locality: Ticao island, Philippines.
- Distribution: Okinawa and southwards, ECP2, P2, Ogasawara islands (FUKUDA, 1995); Philippines.
- Habitat: intertidal to 50 m., sand.
- Original genus: *Natica*.

G1485 *T. undulata* (RÖDING, 1798)

(= *Natica zebra* LAMARCK, 1822 in 1815-22; *N. zebra sensu* IWAKAWA, 1900-05; KURODA, 1928, 1941; S. HIRASE, 1934; KURODA & HABE, 1952-a; *No. zebra sensu* KURODA, 1960; KIRA, 1962; HABE & KOSUGE, 1967)

Mokume-dama

- Type locality: none designated.
- Distribution: Kii peninsula and westwards, P6-P5, EC5, ECP4-ECP2 P2; Philippines, Indo-western Pacific.
- Habitat: 10-40 m., sand.
- Original genus: *Cochlis*.

G1486 *T. hilaris* (SOWERBY III, 1914-a)

(= *Natica luculenta* IREDALE, 1920; *T. hilaris sensu* HIGO & GOTŌ, 1993 *err. pro hilar-*)

Hyō-dama

- Type locality: Kii peninsula (central Honshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J3-J1), EC5, ECP4-ECP2; Indo-western Pacific.

- Habitat: 20-300 m., fine sand.
- Original genus: *Natica*.

G1487 *T. shoichiroi* (KURODA, 1961-a)

Yamaneko-dama

- Type locality: off Cape Daiō, entrance of Ise bay, central Honshū.
- Distribution: Enshū-nada and westwards, Kii peninsula, southern Shikoku.
- Habitat: 100-200 m., sand.
- Original genus: '*Natica (Naticarius?)*'.

G1488 *T. tenuipicta* (KURODA, 1961-a)

Kanze-mizudama (= Kikusui-dama)

- Type locality: Tosa bay, southern Shikoku; ± 50 fms.
- Distribution: Kumano-nada and westwards, Kii peninsula, southern Shikoku, western Kyūshū.
- Habitat: 100-200 m., sand.
- Original genus: *Natica (Notocochlis)*.

G1489 *T. tosaensis* (KURODA, 1961-a)

Tosa-tama-gai

- Type locality: Tosa bay, southern Shikoku; 100-120 fms.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and westwards, off Kii peninsula, southern Shikoku, western Kyūshū.
- Habitat: 150-250 m., sand.
- Original genus: '*Natica (Notocochlis?)*'

G1490 *T. lineata* (RÖDING, 1798)

Masame-dama

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, western Pacific, Australia, northern Indian Ocean.
- Habitat: intertidal to 50 m., sandy mud.
- Original genus: *Cochlis*.

G1491 *T. areolata* (RÉCLUZ, 1844-b)

Nagare-shibori-dama

- Type locality: Capul island, Philippines.
- Distribution: Amami islands and southwards, ECP3, ECP2, P2; central Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Natica*.

G1492 *T. euzona euzona* (RÉCLUZ, 1844-b)

(= *Natica picta* RÉCLUZ, 1844 *non* SOWERBY, 1836; *N. elegans* RÉCLUZ, 1850; *N. decora* PHILIPPI, 1853; *N. cothurnata* IREDALE, 1929; *N. picta sensu* KURODA, 1928; KURODA & HABE, 1952-a; *Notocochlis picta sensu* KURODA, 1960; HABE & KOSUGE, 1975)

Kazari-dama (= Minami-kazari-dama)

- Type locality: 'With *Natica zebra* from Cagayan, province of Misamis, island of Mindanao, found in sandy mud at twenty-five fathoms: and with *Natica areolata* from the isle

of Capul, Philippines; on the reefs'.

- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Natica*.

G1493 *T. euzona magnifluctuata* (KURODA, 1961-a)  
(= *T. magnifluctulata sensu* HIGO, 1973 err.)

Ōnami-kazari-dama

- Type locality: Tosa bay, southern Shikoku; 40-70 fms.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and westwards, Izu peninsula, P7-P5, Japan Sea (off Mishima), western Kyūshū.
- Habitat: 50-200 m., sand.
- Original genus: *Natica* (*Notocochlis*), as ssp. of *N. picta*.

G1494 *T. sagittata* (MENKE, 1843)

(= *Natica marochiensis sensu* IWAKAWA, 1900-05; *Notocochlis* sp. *sensu* KURODA, 1960; *Notocochlis ochrostigma* REHDER, 1980 *sensu* FUKUDA, 1995)

Hagino-tsuyu

- Type locality: 'ad litus occidentali' ('the western shore', of Australia).
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2; western Pacific, Australia.
- Habitat: 20-200 m., sand.
- Original genus: *Natica*.

G1495 *T. lemniscata* (PHILIPPI, 1853 in 1849-53)

Hōshū-no-tama-damashi

- Type locality: none designated.
- Distribution: Ogasawara islands (Chichijima FUKUDA, 1995), Bōsō peninsula and southwards, P7-P5, ECP4-ECP2.
- Habitat: 20-100 m., sand.
- Original genus: *Natica*.

#### □ Genus *Cryptonatica* DALL, 1892

Type species: *Natica clausa* BRODERIP & SOWERBY, 1829 (s. d. DALL, 1908)

(= *Boreonatica* GOLIKOV & KUSAKIN, 1974)

Subgenus *Cryptonatica* s. str.

G1496 *C. (C.) clausa* (BRODERIP & SOWERBY, 1829)

(= *Tectonatica clausiformis* ŌYAMA, 1969)

Hai-iro-tama-gai (= Hime-hai-iro-tama-gai)

- Type locality: none designated.
- Distribution: Izu islands (OKUTANI, 1966), Sagami bay (OKUTANI, 1964-b; 1966) and northwards, P6-P10, Japan Sea (off Mishima, J2-J5) (1000-3000 m.); Sakhalin, Kuril islands, Kamchatka peninsula, Alaska to California (50-100m, sand)
- Original genus: *Natica*.

G1497 *C. (C.) wakkanaiensis* HABE & ITŌ, 1984

Wakkanai-tama-gai

- Type locality: off Cape Sōya, northern Hokkaidō.
- Distribution: northern Hokkaidō and northwards, J5, OP; Sakhalin, Okhotsk Sea.
- Habitat: 20-50 m., fine sand.

G1498 *C. (C.) rikuzenensis* (CHIBA, 1985-a)

Rikuzen-tama-gai

- Type locality: 'off Rikuzen' (Iwate prefecture, northeastern Honshū).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and northwards, P8-P9.
- Original genus: *Tectonatica*.

Notes: misspelt '*rukuzenensis*' in text of original description.

G1499 *C. (C.) russa* (GOULD, 1859 in 1859-61)

(= *Natica aleutica* DALL, 1919)

Koshidaka-tama-gai (= Kita-tama-gai)

- Type locality: Arctic Ocean.
- Distribution: Fukushima prefecture and northwards, P8-P10, Japan Sea (Wakasa bay, J2-J5), Hokkaidō, Kuril islands; Sakhalin, Okhotsk Sea, Kamchatka peninsula.
- Habitat: 50-300 m., sandy mud.
- Original genus: *Natica*.

G1500 *C. (C.) ranzii* (KURODA, 1961-a)

Ranji-tama-gai

- Type locality: off Cape Erimo, southern Hokkaidō.
- Distribution: northeastern Honshū and northwards, P9-P10, Japan Sea (Noto peninsula, J3-J5), Hokkaidō.
- Habitat: 50-250 m., sand.
- Original genus: *Tectonatica*.

G1501 *C. (C.) figurata* (SOWERBY III, 1914-b)

Amimon-tama-gai

- Type locality: 'Rikuzen, Japan' (off Iwate prefecture, northeastern Honshū).
- Distribution: Sagami bay and northwards, P6-P7, P10, Japan Sea (Noto peninsula, J3-J5), Hokkaidō; Korea.
- Habitat: intertidal to 50 m., fine sand.
- Original genus: *Natica*.

G1502 *C. (C.) zenryumaruae* HABE & ITŌ, 1976

Zenryū-maru-tama-gai

- Type locality: Hokkaidō.
- Distribution: Hokkaidō and northwards, Kuril islands; Sakhalin.
- Habitat: 50-100 m., sandy mud.

G1503 *C. (C.) adamsiana* (DUNKER, 1860)

Adamusu-tama-gai

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5.

- Habitat: intertidal to 20 m., in same zone as *Zostera marina*.

- Original genus: *Natica*.

Subgenus ***Sulconatica* GOLIKOV & KUSAKIN, 1974**

Type species: *Natica janthostoma* DESHAYES, 1839 (o. d.)

G1504 *C. (S.) janthostoma* (DESHAYES, 1839)

(= *Natica severa* GOULD, 1859)

Chishima-tama-gai

- Type locality: 'Kamtschatka' (Kamchatka peninsula, Russia).
- Distribution: northeastern Honshū and northwards, P8-P10, Japan Sea (Noto peninsula, J3-J5), Hokkaidō, Kuril islands; Sakhalin, Okhotsk Sea, Korea.
- Habitat: 200-300 m., fine sand.
- Original genus: *Natica*.

G1505 *C. (S.) janthostomoides* (KURODA & HABE, 1949-c)

(= *Natica clausa sensu* IWAKAWA, 1900-05; *N. clausa ianthostomus (sic) sensu* IWAKAWA, 1919; *N. janthostoma sensu* S. HIRASE, 1934; *Tectonatica severa sensu* KURODA & KINOSHITA, 1951; KIRA, 1959)

Ezo-tama-gai

- Type locality: Tōkyō bay.
- Distribution: southern Hokkaidō and southwards, Iwate prefecture (Ōtsuchi bay TSUCHIDA, 1990), P10-P5, Ōsaka bay (OKAMURA & KOJIMA, 1984), Japan Sea (Oga peninsula, J3-J1), EC5; Korea, Yellow Sea.
- Habitat: 20-90 m., sandy mud.
- Original genus: *Tectonatica*.

G1506 *C. (S.) hirasei* (PILSBRY, 1905)

(= *Natica bicincta* SCHRENCK, 1867 non RÉCLUZ, 1850; *N. (Tectonatica) bicincta sensu* CHIBA & CHIBA, 1938)

Hirase-tama-gai (= Ezo-horo-gai)

- Type locality: Akkeshi and Kushiro, Hokkaidō.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and northwards, P8-P10, Hokkaidō, Kuril islands; Sakhalin, Okhotsk Sea, Kamchatka peninsula.
- Habitat: intertidal to 20 m., fine sand.
- Original genus: *Natica*.

□ Genus ***Tectonatica* SACCO, 1890**

Type species: *Natica tectula* BONELLI, 1826

G1507 *T. bougei* (SOWERBY III, 1908)

(= *Cryptonatica bougi sensu* HIGO & GOTŌ, 1993)

Kanoko-dama

- Type locality: New Caledonia.
- Distribution: Ogasawara islands (Chichijima FUKUDA, 1993), Okinawa; Australia, Indo-western Pacific, New Caledonia.

- Habitat: intertidal to 50 m., sand.

- Original genus: *Natica*.

G1508 *T. tigrina* (RÖDING, 1798)

(= *Natica maculata* PERRY, 1811; *N. javana* LAMARCK, 1822 in 1815-22; *N. maculosa* LAMARCK, 1822 in 1815-22; *N. pellistrigina* DUNKER, 1882; *N. maculosa sensu* IWAKAWA, 1900-05; S. HIRASE, 1934; KURODA, 1941; KURODA & HABE, 1952-a)

Gomafu-dama (= Heso-kuri)

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, Seto inland sea, Japan Sea (northern Yamaguchi prefecture, J1), western Kyūshū (Ariake inland sea, EC5); tropical Indo-Pacific.
- Habitat: intertidal to 30 m., sandy mud.
- Original genus: *Cochlis*.

G1509 *T. violacea* (SOWERBY I, 1825)

(= *Natica glabra* WOOD, 1828 in 1818-28; *N. rhodostoma* PHILIPPI, 1842)

Kuchi-murasaki-tama-gai

- Type locality: 'East Indies'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Indo-western Pacific, Australia.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Natica*.

**Notes:** Montsuki-futa-tama-gai *Natica robillardi* SOWERBY II, 1843 in 1842-87 (type locality: Mauritius) is possibly recorded from Okinawa ('Okinawa, by Habe' HIGO & GOTŌ, 1993), but the present authors have been unable to confirm this distribution.

□ Genus ***Aloconatica* SHIKAMA, 1971-b**

Type species: *Aloconatica kushime* SHIKAMA, 1971 (mt.)

G1510 *A. kushime* SHIKAMA, 1971-b

Kushime-tama-gai

- Type locality: 'the Ensyu-nada' (Enshū-nada, off Shizuoka prefecture, central Honshū).
- Distribution: recorded only from type locality.

Subfamily **SININAE WOODRING, 1928**

□ Genus ***Sinum* RÖDING, 1798**

Type species: *Helix haliotoidea* LINNAEUS, 1758 (s. d. DALL, 1915)

(= *Sigaretus* LAMARCK, 1799; *Cryptostoma* BLAINVILLE, 1818; *Catinus* KLEIN in H. & A. ADAMS, 1853; *Ectosinum* IREDALE, 1924)

Subgenus ***Sinum* s. str.**

G1511 *S. javanicum* GRAY in GRIFFITH & PIDGEON, 1834

(= *Sigaretus insculptus* ADAMS & REEVE, 1850 in 1848-50)

Fukuro-gai

- Type locality: Java, Indonesia.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Shimane prefecture (off Cape Hino), J2-J1), EC5, ECP4-ECP2, P2; Philippines, western Pacific, Indonesia, Australia.
- Habitat: offshore, 10-80 m., fine sand.
- Original genus: *Cryptostoma*.

G1512 *S. japonicum* (LISCHKE, 1872 in 1868-73)

Hime-mimi-gai

- Type locality: 'Bucht von Jedo und zwar von Jokohama bis hinaus zur Insel Eno-Sima' (Tōkyō bay, specifically from Yokohama to Enoshima).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2.
- Habitat: 10-50 m., sand.
- Original genus: *Sigaretus*.

G1513 *S. incisum* (REEVE, 1864 in 1843-65)

(= *Sigaretus undulatum* LISCHKE, 1872 in 1868-73)

Tsu-gai

- Type locality: 'Malacca' (Malacca strait, Indonesia).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2; Indonesia.
- Habitat: 10-50 m., fine sand.
- Original genus: *Sigaretus*.

G1514 *S. planulatum* (RÉCLUZ, 1843-d)

Tsutsumi-gai

- Type locality: Mahé, Seychelles.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Indo-Pacific, Indian Ocean.
- Habitat: 10-50 m., fine sand.

□ Genus *Eunaticina* FISCHER, 1885

Type species: *Nerita papilla* GMELIN, 1791 (o. d.)

(= *Naticina* GRAY, 1840 *nom. nud.*; *Naticina* GRAY, 1847 *non* GUILDING, 1834; *Pervisinum* IREDALE, 1931)

G1515 *E. papilla papilla* (GMELIN, 1791)

(= *Cochlis tranquebarica* RÖDING, 1798; *Natica costulata* QUOY & GAIMARD, 1833; *N. cancellata* SWAINSON, 1840)

Neko-gai

- Type locality: 'ad Tranquebariae littora' (Tranquebar coast, southern India).
- Distribution: Bōsō peninsula and southwards, P5-P7, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2; Korea, Indo-western Pacific, Australia.
- Habitat: intertidal to 20 m., fine sand.
- Original genus: *Nerita*.

G1516 *E. papilla lamarckiana* (RÉCLUZ, 1843-d)

Tama-neko-gai

- Type locality: 'les côtes des îles Philippines' (coasts of the Philippine islands).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Wakasa bay, J2-J1), EC5; Philippines.
- Habitat: intertidal to 20 m., fine sand.
- Original genus: *Sigaretus*.

□ Genus *Haliotinella* SOUVERBIE in SOUVERBIE & MONTROUZIER, 1875 in 1859-79

Type species: *Haliotinella montrouzeri* SOUVERBIE, 1875 (o. d.)

G1517 *H. montrouzeri* SOUVERBIE in SOUVERBIE & MONTROUZIER, 1875 in 1859-79

Umi-mono-aragai

- Type locality: Île d'Art, New Caledonia.
- Distribution: Okinawa (KURODA, 1960-a); New Caledonia.
- Habitat: intertidal, coarse sand and stones.

Superfamily FICOIDEA MEEK, 1864

Family FICIDAE MEEK, 1864

(Refs.: Kuroda & Habe, 1952-b)

□ Genus *Ficus* RÖDING, 1798

Type species: *Ficus communis* RÖDING, 1798 (s. d.)

DALL, 1906; = *Murex ficus* LINNAEUS, 1758)

(= *Pyrula* LAMARCK, 1798; *Pirula* MONTFORT, 1810; *Otus* RISSO, 1826 *non* PENNANT, 1769; *Ficula* SWAINSON, 1835; *Sycotypus* GRAY, 1847; *Sycotopus sensu* CONRAD, 1856 *err.*; *Sycotyphus sensu* GABB, 1861 *err.*)

G1518 *F. ficus* (LINNAEUS, 1758)

(= *F. variegata* RÖDING, 1798; *F. communis* RÖDING, 1798; *Ficula laevigata* REEVE, 1847 in 1843-65)

Ichijiku-gai

- Type locality: none given in LINNAEUS, 1758; 'in *O. Indico ad Amboinam*' (Ambon island, Indonesia) in LINNAEUS, 1767.
- Distribution: Tosa bay (southern Shikoku) and southwards, P5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to 100 m., sand.
- Original genus: *Murex* (*non Murex ficus* GMELIN, 1791).

G1519 *F. subintermedia* (D'ORBIGNY, 1852 in 1849-52)

(= *Pyrula ficoides* LAMARCK, 1822 in 1815-22 *non* BROCCHI, 1814; *Ficula reticulata* REEVE, 1847 *non* LAMARCK, 1816; *Ficula intermedia* SISMONDA, 1847 *non* MELVILL, 1843; *Ficula decussata* SOWERBY, 1880; *Pyrula reticulata* LAMARCK *sensu* IWAKAWA, 1900-05, 1919; *Ficus margaretae* IREDALE, 1931; *F. ficoides sensu* S. HIRASE, 1934; CERNOHORSKY, 1972)

Biwa-gai

- Type locality: northern Italy (fossil).
- Distribution: Bōsō peninsula and southwards, P7-P5,

Ōsaka bay (OKAMURA & KOJIMA, 1984), Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2; Indo-western Pacific, Australia.

- Habitat: 10-100 m., fine sand.
- Original genus: *Pyrula*.

**Notes:** it is not certain that the Pacific species are *F. subintermedia*, but further study of type material is necessary (A. BEU, pers. comm.)

G1520 *F. gracilis* (SOWERBY I, 1825)

(= *Pyrula elongata* GRAY, 1839; *P. dussumieri sensu* H. & A. ADAMS, 1852; *Ficula dussumieri sensu* REEVE, 1847; SOWERBY, 1880; *Sycotypus dussumieri sensu* H. & A. ADAMS, 1852; *Ficus dussumieri sensu* Y. HIRASE, 1915; *Pirula dussumieri sensu* BAYER, 1939)

Ō-biwa-gai (= Hotei-ō-biwa-gai)

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P6-P5, EC5, ECP4-ECP2; Indo-western Pacific, Australia.
- Habitat: 150-200 m., sand.
- Original genus: *Pyrula*.

G1521 *F. filosa* (SOWERBY III, 1892)

Ishibashi-biwa-gai

- Type locality: Hong Kong.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and westwards, P7-P5, western Japan Sea (off Yamaguchi prefecture SUGIMURA & FUKUDA, 1996, J1), EC5, East China Sea; Philippines.
- Habitat: 100-200 m., fine sand.
- Original genus: *Pyrula*.

Superfamily **TONNOIDEA SUTER, 1913**

Family **TONNIDAE SUTER, 1913**

□ Genus ***Eudolium* DALL, 1889**

(Refs.: Marshall, 1992)

Type species: *Dolium crosseanum* MONTEROSATO, 1869 (mt.)

(= *Doliopsis* MONTEROSATO, 1872 non VOIGT, 1852; *Endolium sensu* DALL in PRESTON, 1924 *err. pro Eud-*)

G1522 *E. pyriforme* (SOWERBY III, 1914-c)

Nashigata-miyashiro

- Type locality: 'Kii' (Kii peninsula, central Honshū).
- Distribution: Izu islands (Hachijō island OKUTANI, 1964-b), Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2; western Pacific, Australia.
- Habitat: 100-500 m., coarse sand and stones.
- Original genus: *Dolium*.

G1523 *E. bairdii* (VERRILL & SMITH in VERRILL, 1881)

(= *E. crosseanum* var. *solidior* DAUTZENBERG & FISCHER, 1906; *E. lineata* SCHEPMAN, 1909 in 1908-

13; *E. inflatum* KURODA & HABE, 1952-a; *E. kuroharai* AZUMA, 1960; *Oocorys lineata sensu* ABBOTT & DANCE, 1982; *E. lineatum sensu* HIGO & GOTŌ, 1993) Kurohara-miyashiro

- Type locality: 'Fish Hawk' sta. 945, off Barnegat, New Jersey (eastern USA), 379 m.
- Distribution: Bōsō peninsula and westwards, P7-P5, western Kyūshū and southwards, East China Sea, ECP4-ECP2; Indonesia (Ceram Sea), Indo-western Pacific, Atlantic and Mediterranean (see MARSHALL, 1992).
- Habitat: 200-300 m., sandy mud.
- Original genus: *Dolium*.

□ Genus ***Malea* VALENCIENNES, 1833**

(= *Quimalea* IREDALE, 1929)

G1524 *M. pomum* (LINNAEUS, 1758)

(= *M. labrosa* GRAY, 1847)

Iwakawa-tokiwa-gai

- Type locality: none given in LINNAEUS, 1758; '*ad Javam*' (Java, Indonesia) in LINNAEUS, 1767.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, Ogasawara islands (Minami-jima NAMIE, 1905); Indo-Pacific.
- Habitat: 5-20 m., sand.
- Original genus: *Buccinum*.

□ Genus ***Tonna* BRÜNNICH, 1771**

Type species: *Buccinum galea* LINNAEUS, 1758 (s. d. SUTER, 1913; ICZN op. 237)

(= *Cadus* RÖDING, 1798; *Dolium* LAMARCK, 1801; *Cadium* LINK, 1807; *Perdix* MONTFORT, 1810 non BRISSON, 1760; *Macgillivrayia* FORBES, 1852; *Galea* KLEIN in MÖRCH, 1852; *Foratidolium* ROVERETO, 1899; *Parvitonna* IREDALE, 1931)

G1525 *T. perdix* (LINNAEUS, 1758)

(= *Cadux coturnix* RÖDING, 1798; *C. meleagris* RÖDING, 1798; *Perdix reticulatus* MONTFORT, 1810; *Dolium rufum* BLAINVILLE, 1829; *D. plumatum* GREEN, 1830; *T. rufra sensu* ŌSHIMA, 1943)

Uzura-gai (= Yamadori-gai)

- Type locality: '*ad Americam*' ('from the Americas'); incorrect. See DODGE, 1956 in 1952-59).
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, southern Kyūshū, ECP4-ECP2; Indo-western Pacific, Australia, east Africa to Hawaii.
- Habitat: intertidal to 50 m., sand.
- Original genus: *Buccinum*.

G1526 *T. canaliculata* (LINNAEUS, 1758)

(= *T. cepa* RÖDING, 1798; *Dolium olearium* BRUGUIÈRE, 1789 in 1789-1816 non LINNAEUS, 1758; *T. testardi* MONTROUZIER in SOUVERBIE & MONTROUZIER, 1863)



Sukumi-uzura

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P6-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2; Indo-Pacific, Australia.
- Habitat: 10-50 m., sand.

G1527 *T. luteostoma* (KÜSTER, 1857)

(= *Dolium tankervillei* HANLEY, 1860; *D. japonica* DUNKER, 1867)

Yatsushiro-gai

- Type locality: Indian Ocean.
- Distribution: southern Hokkaidō and southwards, Iwate prefecture (Ōtsuchi bay TSUCHIDA, 1990), P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2; Korea.
- Original genus: *Dolium*.

G1528 *T. melanostoma* (JAY, 1839)

Horo-gai

- Type locality: 'Friendly Islands' (Tonga).
- Distribution: Izu islands (Shikine island NISHIMURA, 1996), Yakushima (southern Kyūshū) and southwards, northern East China Sea, ECP4-ECP2, P2; central Pacific to New Zealand.
- Habitat: intertidal to 50 m., sand.
- Original genus: *Dolium*.

G1529 *T. olearium* (LINNAEUS, 1758)

(= *Dolium zonatum* GREEN, 1830; *D. crenulatum* PHILIPPI, 1845; *D. zonatum sensu* REEVE, 1849; IWAKAWA, 1919; *D. galea sensu* IWAKAWA, 1900-05)

Suji-uzura

- Type locality: 'in *O. Indico*' (Indian Ocean).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (off Cape Hino, Shimane prefecture; J2-J1), EC5, East China Sea; Indo-western Pacific.
- Habitat: 10-50 m., fine sand.
- Original genus: *Buccinum*.

G1530 *T. chinensis chinensis* (DILLWYN, 1817)

(= *Tonna deshayesii* REEVE, 1849)

Mifu-uzura (= Taiwan-uzura)

- Type locality: 'the coasts of Java and China'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2; western Pacific, Australia.
- Habitat: 10-50 m., fine sand.
- Original genus: *Buccinum*.

G1531 *T. chinensis magnifica* (SOWERBY III, 1904)

Kasuri-uzura (= Kasuri-miyashiro)

- Type locality: 'China Sea'.
- Distribution: western Kyūshū and southwards, East China Sea, ECP4-ECP2.
- Habitat: 10-200 m., fine sand.

- Original genus: *Dolium*.

G1532 *T. tessellata* (LAMARCK, 1816-a)

(= *Dolium fimbriatum* SOWERBY I, 1827; *D. minjac* DESHAYES, 1844; *D. costatum maculata sensu* IWAKAWA, 1919; *T. lischkeana sensu* KURODA, 1928, 1960)

Uzura-miyashiro-modoki

- Type locality: New Caledonia.
- Distribution: Bōsō peninsula and southwards, P7-P5, western Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2; Indo-western Pacific, Australia.
- Habitat: 10-50 m., sand.
- Original genus: *Dolium*.

G1533 *T. dolium* (LINNAEUS, 1758)

(= *Dolium maculatum* FISCHER, 1807; *D. marginatum* PHILIPPI, 1845; *D. lischkeanum* KÜSTER, 1857; *D. costatum sensu* IWAKAWA, 1919; *T. lischkeana sensu* ŌSHIMA, 1943; HABE & KOSUGE, 1967; KURODA *et al.*, 1971; OKUTANI, 1975; ARAKAWA in OKUTANI (Ed.), 1986; *T. tessellata sensu* KIRA, 1962; *T. marginata sensu* HIGO & GOTŌ, 1993)

Miyashiro-modoki (= Madara-tokiwa-gai)

- Type locality: 'in *M. Siculo*' (Sicily, incorrect; 'Africano' added in LINNAEUS, 1767).
- Distribution: Kyūshū and southwards, ECP4-ECP2; Indo-Pacific, New Zealand.
- Habitat: 10-30 m., fine sand.
- Original genus: *Buccinum*.

G1534 *T. sulcosa* (BORN, 1778)

(= *Buccinum fasciatum* BRUGUIÈRE, 1789 in 1789-1816 *non* MÜLLER, 1774; *Dolium fasciatum sensu* REEVE, 1849; IWAKAWA, 1900-05, 1919; HABE & KOSUGE, 1966; *D. varicosum* PRESTON, 1910)

Miyashiro-gai

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (off Cape Hino, Shimane prefecture; J2-J1), EC5, ECP4-ECP2; Indo-western Pacific, Australia.
- Habitat: 10-50 m., fine sand.
- Original genus: *Buccinum*.

G1535 *T. allium* (DILLWYN, 1817)

(= *Dolium costatum* MENKE, 1829; *D. latesulcatum* HANLEY, 1860; *D. lactescens* HANLEY, 1860; *T. picta* HANLEY, 1860; *D. pomum sensu* IWAKAWA, 1900-05, 1919; *Malea pomum sensu* KURODA, 1928; *T. nipponensis* ŌSHIMA, 1943)

Tokiwa-gai (= Seitaka-tokiwa-gai)

- Type locality: Tranquebar, southern India; see note.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Indo-western Pacific, Australia.

- Habitat: 10-50 m., fine sand.
  - Original genus: *Buccinum* (as ssp. of *dolium*).
- Note:** Dillwyn used this Solander MS name in describing this species as a variety ('Variety B. Pale brown, without any spots on the ribs'.) of *Buccinum* (now *Tonna dolium* LINNAEUS, 1758; he refers a figure in Martini which is captioned 'Tranquebar'.

Family **CASSIDAE LATREILLE, 1825**

(Refs.: Abbott, 1968; Kreipl, 1997)

Subfamily **CASSINAE LATREILLE, 1825**

□ Genus *Cassis* **SCOPOLI, 1777**

Type species: *Buccinum cornutum* LINNAEUS, 1758 (= *Cassida* BRÜNNICH, 1771 non LINNAEUS, 1758; *Cassidea* BRUGUIÈRE, 1789 in 1789-1816; *Cassinia* RAFINESQUE, 1815 err.; *Goniogalea* MÖRCH, 1857; *Fimbriola* MÜHLFELD in SCUDDER, 1882 nom. nud.; *Cassisoma* ROVERETO, 1899; *Galeodocassis* SACCO, 1890)

G1536 *C. cornuta* (LINNAEUS, 1758)

(= *C. caputequinum* RÖDING, 1798; *C. hamata* RÖDING, 1798; *C. labiata* CHEMNITZ sensu DILLWYN, 1817; *C. amboinensis* PETIVIER sensu TRYON, 1885; *C. brevisrostrum* PETIVIER sensu TRYON, 1885)

Tō-kamuri

- Type locality: 'in America' (incorrect).
- Distribution: Miyake island (Izu islands) and westwards, Kii peninsula, P5, ECP4-ECP2; Taiwan, Philippines, Indo-western Pacific, Australia.
- Habitat: intertidal to 30 m., on sand.
- Original genus: *Buccinum*.

□ Genus *Cypraecassis* **STUTCHBURY, 1837**

Type species: *Buccinum rufum* LINNAEUS, 1758 (= *Cypraecassis* COSSMANN, 1903 err.)

G1537 *C. rufa* (LINNAEUS, 1758)

(= *Buccinum pullum* BORN, 1778; *Cassides chartoprates* MEUSCHEN, 1786 non-binominal; *B. ventricosum* GMELIN, 1791; *B. pennatum* GMELIN, 1791; *Cassidea pennata* BRUGUIÈRE, 1792 in 1789-1816; *Cassida ostauri* HUMPHREY, 1797 non-binominal; *Cassis rufescens* RÖDING, 1798; *Cassis tuberosa* RÖDING, 1798; *Cassis labiata* PERRY, 1811)

Manbō-gai (= Man-nen-gai)

- Type locality: 'in Oceano Americano' ('American Ocean'; incorrect). Redesignated 'Amboina, Indonesia' (ABBOTT, 1968).
- Distribution: Kii peninsula, Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; Philippines, Indo-western Pacific, Australia, Indian Ocean, east Africa.
- Habitat: intertidal to 10 m., coral reefs.
- Original genus: *Buccinum*.

□ Genus *Oocorys* **FISCHER, 1883**

Type species: *Oocorys sulcata* FISCHER, 1883 (mt.)

G1538 *O. weberi* **SCHEPMAN, 1913 in 1908-13**

- Type locality: 'Siboga' sta. 175: 02° 37.7' S., 130° 33.4' E., 'Ceram Sea. 1914 m. Fine grey and green mud' (Indonesia).
- Distribution: off Amami Ōshima (950 m. OKUTANI, 1966); Indonesia.

G1539 *O. schepmani* **TURNER, 1948**

(= *O. elongata* SCHEPMAN, 1909 in 1908-13 non LOCARD, 1897)

- Type locality: 'Siboga' sta. 221: 06° 24' S., 124° 39' E., 'Banda Sea, 2798 m. Solid, bluish-grey mud with Foraminifera'.
- Distribution: Sagami bay (1330-1340 m. OKUTANI, 1966); Indonesia.

□ Genus *Hadroocorys* **QUINN, 1980**

Type species: *Dolium (Eudolium) verrilli* DALL, 1889 (o. d.)

G1540 *H. tosaensis* (**HABE & AZUMA, 1959**)

Heso-aki-tamago-bora

- Type locality: Okezoko, western Tosa bay (southern Shikoku); ± 200 m.
- Distribution: off southern Shikoku.
- Habitat: 150-300 m., sand.
- Original genus: *Oocorys*.

□ Genus *Galeodea* **LINK, 1807**

Type species: *Buccinum echinophorum* LINNAEUS, 1758 (mt.)

(= *Cassidaria* LAMARCK, 1816; *Galeoocorys* KURODA & HABE, 1957)

G1541 *G. nipponica* (**SAKURAI & HABE in HABE, 1961-a**)

Kusudama-bora

- Type locality: off Cape Ashizuri, southwestern Shikoku; ± 200 m.
- Distribution: Tosa bay, southern Kyūshū (150-300 m., sand); western Australia (400-500 m.).
- Original genus: *Galeoocorys*.

G1542 *G. leucodoma* **DALL, 1907-c**

(= *G. echinophorella suzumai* SAKURAI, 1984-a)

Kabuto-bora (= Suzuma-hime-kabuto-bora)

- Type locality: USFC sta. 4912: off Kagoshima (southern Kyūshū), 391 fms.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, Suruga bay, off Kii peninsula, southern Shikoku, Japan Sea (off Kuriya, Fukui prefecture), off western Kyūshū, P2; Indonesia.
- Habitat: 100-500 m., sandy mud.

G1543 *G. echinophorella* **KURODA & HABE, 1952-a**

(= *Galodea echinophorella* S. HIRASE, 1934 *nom. nud.*;  
*Galodea echnophorella (sic) suzumai* SAKURAI, 1984)  
Hime-kabuto-bora

- Type locality: none designated.
- Distribution: Enshū-nada and southwards, P6-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4.
- Habitat: 50-150 m., sand.

G1544 *G. marginalba* (YAMAMOTO & SAKURAI, 1977-a)

Kuchikire-kabuto-bora

- Type locality: East China Sea, fishing area Nōrin 486: 27° 28.5' N., 125° 50.0' - 126.00' E., 360 m.
- Distribution: type locality; off Kaohsiung (Taiwan).
- Original genus: *Galeocorys*.

Subfamily PHALIINAE BEU, 1981

□ Genus *Phalium* LINK, 1807 in 1806-08

Type species: *Buccinum glaucum* LINNAEUS, 1758 (mt.)  
(= *Bezoardica* SCHUMACHER, 1817; *Cassis sensu* CHILDREN, 1823; *Cassidea* SWAINSON, 1840 *non* BRUGUIÈRE, 1798; *Bezoardicella* HABE, 1961-a)  
(Refs.: Abbott, 1968)

G1545 *P. glaucum* (LINNAEUS, 1758)

(= *Cassida bezoar* HUMPHREY, 1797 *non*-binominal;  
*Bezoardica vulgaris* SCHUMACHER, 1817; *Cassis bezoar sensu* GRAY, 1839; *Cassidea strigata sensu* SHIRLEY, 1911; *Cassis coronulata* SOWERBY *sensu* IWAKAWA, 1919)

Kanko

- Type locality: 'in *O. Asiatico*' ('Asian seas'; restricted to 'Amboina, Indonesia' ABBOTT, 1968).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, Indo-western Pacific, Australia.
- Habitat: 10-50 m., fine sand.
- Original genus: *Buccinum*.

G1546 *P. bandatum* (PERRY, 1811)

(= *Cassis coronulata* SOWERBY I, 1825; *C. glauca* BRUGUIÈRE *var. sensu* KIENER, 1835; *Semicassis coronulata sensu* BRAZIER, 1873; *Cassidea coronulata sensu* HEDLEY, 1910; *Phalium coronatum sensu* HEDLEY, 1918)

Taiko-gai

- Type locality: 'East Indies' restricted to 'Olango Island, just east of Cebu City, Cebu Island, Philippines' (ABBOTT, 1968).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (off Cape Hino, Shimane prefecture; J2-J1), EC5, ECP4-ECP2, P2; Korea, Philippines, Indonesia, northern Australia.
- Habitat: 10-50 m., fine sand.

- Original genus: *Cassidea*.

G1547 *P. areola* (LINNAEUS, 1758)

(= *Cassis alea* RÖDING, 1798; *P. clathratum, extinctum, sulcatum*, all LINK, 1807; *Bezoardica areolata* SCHUMACHER, 1817; *Cassis aureola* BRUGUIÈRE *sensu* LIENARD, 1877; *P. agnitum* IREDALE, 1927)  
Kodaiko-gai

- Type locality: 'in *M. Mediterraneo*' (Mediterranean sea, incorrect; 'Java' added in LINNAEUS, 1767).
- Distribution: Bōsō peninsula and southwards, Noto peninsula, P7-P5, J2, J1, EC5, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific, Australia, east Africa.
- Habitat: intertidal to 50 m., sandy mud.
- Original genus: *Buccinum*.

G1548 *P. flammiferum* (RÖDING, 1798)

(= *Buccinum rugosum* GMELIN, 1791 *non* LINNAEUS, 1771; *B. strigatum* GMELIN, 1791 *non* MÜLLER, 1774; *P. flammeolum* LINK, 1807; *Cassis variegata* PERRY, 1811; *C. zebra* LAMARCK, 1822 in 1815-22; *C. undata* MARTYN *sensu* DESHAYES, 1844; *C. strigata sensu* IWAKAWA, 1900-05, 1919; *P. areola var. kuesteri* BAYER, 1935; *P. strigatum sensu* BAYER, 1935; KURODA, 1941; KURODA & HABE, 1952-a; *Bezoardicella strigata sensu* KIRA, 1962; *P. (Bezoardicella) strigatum sensu* HABE & KOSUGE, 1967; *P. strigatum sensu* ABBOTT, 1968)

Kazura-gai (= Naga-kazura-gai)

- Type locality: none designated.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea, Yellow Sea, China.
- Habitat: 10-100 m., sand.
- Original genus: *Buccinum*.

G1549 *P. decussatum* (LINNAEUS, 1758)

(= *Cassis cancellata* RÖDING, 1798; *C. flammeolum* RÖDING, 1798; *P. decussatum* GMELIN *sensu* LINK, 1807)

Nunome-kazura

- Type locality: none given in LINNAEUS, 1758; 'in *O. Africano*' (African seas) in LINNAEUS, 1767. Redesignated 'Tjilatjap, Java, Indonesia' (ABBOTT, 1968).
- Distribution: Yaeyama islands and southwards, P2; Taiwan, southern China, South China Sea, Java.
- Habitat: 10-50 m., sand.
- Original genus: *Buccinum*.

□ Genus *Echinophoria* SACCO, 1890

Type species: *Buccinum intermedium* BROCCCHI, 1814 (s. d. DALL)

(= *Trachydolium* HOWE, 1926; *Euspinacassis* FINLAY, 1926; *Shinkichiheia* HATAI & NISHIYAMA, 1949;

*Bathygalea* WOODRING & OLSSON, 1957; *Miogalea* WOODRING & OLSSON, 1957)

G1550 *E. carnosa* KURODA & HABA in HABA, 1961-a  
Niku-iro-kabuto-urashima

- Type locality: off Kōchi prefecture, southern Shikoku.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and westwards, P7-P5, EC5, southwestern Kyūshū, East China Sea, P2; northern Australia.
- Habitat: 150-300 m., sand.

G1551 *E. kurodai* (ABBOTT, 1968)

(= *E. sp. sensu* ŌYAMA & TAKEMURA, 1961 in 1959-63; *E. galeodiformis* KURODA, MS *sensu* AZUMA, 1961)  
Kabuto-urashima

- Type locality: Tosa bay, southern Shikoku; 120 fms.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, Enshū-nada, Kii peninsula, southern Shikoku, southwestern Kyūshū, East China Sea, P2; Philippines.
- Habitat: 200-300 m., sand.
- Original genus: *Phalium*.

G1552 *E. coronadoi wyvillei* (WATSON, 1885 in 1885-86)

Nanban-kabuto-urashima

- Type locality: 'Challenger' sta. 204a: off Tablas island, Philippines, 100-155 fms.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, Enshū-nada, Kii peninsula, southern Shikoku, southwestern Kyūshū, East China Sea, P2; Philippines, Australia.
- Habitat: 200-567 m., sand.
- Original genus: *Cassis* (*Bezoardica*).

□ Genus *Semicassis* MÖRCH, 1852

Type species: *Semicassis japonica* REEVE, 1848 (s. d. HARRIS, 1897; = *Phalium bisulcatum* SCHUBERT & WAGNER, 1829)

(= *Faurotis* JOUSSEAUME, 1888; *Bezoardica sensu* DALL, 1909 *non* SCHUMACHER, 1817; *Tylocassis* WOODRING, 1928; *Xenophalium* IREDALE, 1927; *Xenophalium* IREDALE, 1927; *Xenogalea* IREDALE, 1927; *Eocasmaria* VREDENBURG, 1928)

G1553 *S. bisulcata* (SCHUBERT & WAGNER, 1829)

(= *Buccinum areola sensu* BURROWS, 1815 *non* LINNAEUS, 1758; *B. tessellatum* WOOD, 1825 *non* GMELIN, 1791; *Cassis saburon* LAMARCK *sensu* SCHUBERT & WAGNER, 1829; *C. pila* REEVE, 1848 in 1843-65; *C. japonica* REEVE, 1848 in 1843-65; *C. sulcosa minor* KÜSTER, 1857; *C. saburon* BRUGUIÈRE *sensu* KÜSTER, 1857; *C. nucleus* KÜSTER, 1857; *C. pfeifferi* HIDALGO, 1871; *Faurotis bisulcata* SOWERBY III, 1888; *C. pfeifferi* CROSSE *sensu* SOWERBY III, 1896; *C.*

*booleyi* SOWERBY III, 1900; *S. diuturna* IREDALE, 1927; *Xenogalea nashi* IREDALE, 1931; *S. bisulcata persimilis* KIRA, 1959-a)

Wadachi-urashima (= Une-urashima; Tama-urashima; Mame-shibori-urashima; Urashima)

- Type locality: Port Blair, Andaman islands.
- Distribution: Ōsaka bay (OKAMURA & KOJIMA, 1984), P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: offshore, 50-100 m., sandy mud.
- Original genus: *Cassis*.

G1554 *S. glabrata* (DUNKER, 1852 in 1852-53)

Migaki-urashima

- Type locality: 'ad litus insulae Zanzibar' (coast of Zanzibar, east Africa).
- Distribution: southwestern Shikoku (off Kashiwajima), western Kyūshū; Philippines, Indonesia, New Guinea.
- Habitat: 200-1000 m., sand.
- Original genus: *Cassis*.

G1555 *S. bulla* HABA, 1961-a

(= *Phalium (Bezoardica) tenuis* HIRASE *sensu* YOKOYAMA, 1931-a, *nom. nud.*; *P. obscurum*, *P. bulla sensu* KURODA, 1952 (Venus, vol. 17 (1): 35), invalid)  
Usu-urashima

- Type locality: off Isshiki, Aichi prefecture, central Honshū; 50-100 fms.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and westwards, P7-P5, EC5, ECP4-ECP2; southeastern China, Hawaii.
- Habitat: 50-200 m., sand.

G1556 *S. obscura* HABA, 1961-a

(= *S. obscurum* KURODA *sensu* ŌYAMA & TAKEMURA, 1961 in 1959-63)

Fuiri-usu-urashima

- Type locality: Japan, 50-100 fms.
- Distribution: Enshū-nada and westwards, P6-P5, EC5, East China Sea.
- Habitat: 50-200 m., sand.

G1557 *S. inornata* (PILSBRY, 1895-a)

(= *Cassis achatina sensu* IWAKAWA, 1900-05, 1919)  
Hime-daiko

- Type locality: 'Japan'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea, China.
- Habitat: 50-200 m., sand.
- Original genus: *Cassis* (as ssp. of *C. achatina*).

□ Genus *Casmaria* H. & A. ADAMS, 1853 in 1853-58

Type species: *Buccinum vibex* LINNAEUS, 1758 (s. d. HARRIS, 1897; = *Buccinum erinaceus* LINNAEUS, 1758) (= *Casmeria sensu* JOUSSEAUME, 1888 *err.*) (Refs.: Abbott, 1968)

G1558 *C. erinaceus* (LINNAEUS, 1758)

(= *Buccinum vibex* LINNAEUS, 1758; *Cassis denticulata* RÖDING, 1798; *Phalium edentulum* LINK, 1807; *Cassis vibex sensu* KÜSTER, 1857; IWAKAWA, 1900-05; *Cassis vibex var. ventricosa* RIGACCI, 1866; *Casmaria vibex sensu* IREDALE, 1927; *Phalium (Semicassis) vibex sensu* S. HIRASE, 1934)

Hina-zuru

- Type locality: 'in *O. Americano*' (American seas; incorrect). Redesignated 'Amboina, Indonesia' (ABBOTT, 1968).
- Distribution: Ogasawara islands and westwards, Kii peninsula and southwards, P5, EC5, ECP4-ECP2; Indo-western Pacific, eastern Pacific, Australia.
- Habitat: 10-30 m., fine sand.
- Original genus: *Buccinum*.

G1559 *C. ponderosa* (GMELIN, 1791)

(= *Buccinum nodulosum* GMELIN, 1791; *Cassidea erinaceus* LINNAEUS *sensu* BRUGUIÈRE, 1792 in 1789-1816; *Phalium quadratum* LINK, 1807; *B. biarmatum* DILLWYN, 1817; *B. pantherina* SOLANDER *sensu* DILLWYN, 1817; *Cassis nodulosa sensu* MENKE, 1828; *Cassis tenuilabris* MENKE, 1828; *Cassis torquata* REEVE, 1848 in 1843-65; *Cassis turgida* REEVE, 1848 in 1843-65; *Cassis torquata sensu* KÜSTER, 1857; *Casmaria torquata sensu* JOUSSEAUME, 1888; *Casmaria cernica sensu* SOWERBY III, 1888; *Cassidea nodulosa var. torquata sensu* HEDLEY, 1910)

Amegai (= Damashi-hina-zuru)

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Original genus: *Buccinum*.

G1560 *C. nipponensis* ABBOTT, 1968

(= *Cassis glabrata sensu* IWAKAWA, 1900-05; *Cassis torquata sensu* IWAKAWA, 1919; *Phalium nodulosa torquata sensu* SUGITANI, 1926; *P. (Casmaria) ponderosa quadrata sensu* KURODA, 1928; *Casmaria cernica sensu* KURODA, 1960; KURODA & HABE, 1952-a; HABE, 1964; HABE & KOSUGE, 1967)

Renjaku (= Hime-yofugai)

- Type locality: Tanabe, Wakayama prefecture (Kii peninsula, central Honshū).
- Distribution: Ogasawara islands, Bōsō peninsula and southwards, P7-P5, Japan Sea (off Cape Hino, Shimane prefecture; J2-J1), Okinawa.
- Habitat: 10-200 m., fine sand.

Family RANELLIDAE GRAY, 1854

(= TRITONIDAE H. & A. ADAMS, 1853 (unavailable, ICZN Art. 39); LAMPUSIIDAE NEWTON, 1891; LOTORIIDAE HARRIS, 1897; SIMPULIDAE

DAUTZENBERG, 1900 (unavailable, ICZN Art. 39); SEPTIDAE DALL & SIMPSON, 1901; AQUILLIDAE PILSBRY, 1904; NYCTILOCHIDAE DALL, 1912; CYMATIIDAE IREDALE, 1913; CHARONIIDAE POWELL, 1933; GYRINEINAE HIGO & GOTŌ, 1993 *nom. nud.*)

(Refs.: Henning & Hemmen, 1993)

Subfamily RANELLINAE GRAY, 1854

(= ARGOBUCCININAE KURODA *et al.*, 1971)

□ Genus *Fusitriton* COSSMANN, 1903

Type species: *Triton cancellatus* LAMARCK, 1816 (o. d.) (= *Cryotritonium* MARTENS, 1904)

G1561 *F. oregonensis* (REDFIELD, 1846)

(= *Tritonium cancellatum* MIDDENDORFF, 1849 *non* LAMARCK, 1816; *T. cancellatus sensu* IWAKAWA, 1900-05, 1919; S. HIRASE, 1907; *Argobuccinum (Fusitriton) oregonense sensu* S. HIRASE, 1934)  
Aya-bora

- Type locality: Straits of St Juan de Fuca, Oregon (northwestern USA).
- Distribution: Sagami bay and northwards, P8-P10 (Kashima-nada OKUTANI, 1964-b), Japan Sea (Noto peninsula, J3-J6), OP, (Hokkaidō KURODA & KINOSHITA, 1954); Korea, Kamchatka peninsula, northwestern USA southwards to San Diego, California.
- Habitat: subtidal to 420 m., sandy mud.
- Original genus: *Triton*.

G1562 *F. galea* KURODA & HABE in HABE, 1961-a  
Kabuto-aya-bora

- Type locality: off Cape Ashizuri, southwestern Shikoku; 100-200 m.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and westwards, (Enshū-nada OKUTANI, 1964-b), P7-P5, western Japan Sea (off Tsunoshima SUGIMURA, 1992), EC5.
- Habitat: 100-620 m., fine sand.

□ Genus *Gyrineum* LINK, 1807 in 1806-08

Type species: *Murex gyrinus* LINNAEUS, 1758 (= *Apollon* MONTFORT, 1810; *Gyrinella* DALL, 1924)

G1563 *G. gyrinum* (LINNAEUS, 1758)

(= *G. verrucosum* LINK, 1807; *Biplex variegata* PERRY, 1811; *Ranella ranina* LAMARCK, 1816; *Apollon gyrinus sensu* KURODA, 1941, 1960; HABE, 1964; HABE & KOSUGE, 1967; OKUTANI, 1975)

Shima-arare-bora

- Type locality: 'in *M. Mediterraneo*' (Mediterranean Sea; incorrect).
- Distribution: Amami islands and southwards, ECP4-ECP2, P2; Philippines, tropical Pacific.
- Habitat: intertidal to 10 m., under coral shelves.

- Original genus: *Murex*.

**G1564 *G. natator* (RÖDING, 1798)**

(= *Biplex elegans* PERRY, 1811; *Ranella tuberculata* BRODERIP, 1833 non RISSO, 1826; *R. (Apollon) olivator* MÖRCH, 1852; *Ranella caelata* BRODERIP sensu IWAKAWA, 1900-05; *R. (Lampas) granifera* sensu IWAKAWA, 1919; *Bursa (Colubrellina) corrugata* (PERRY) sensu KURODA, 1928; *G. natator* var. *robusta* FULTON, 1936; *Bursa (Dulcerana) corrugata* sensu KURODA, 1941; *B. corrugata* sensu KURODA & HABE, 1952-a)

Une-bora (= Arare-bora)

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, Seto inland sea (INABA, 1982), EC5, ECP4-ECP2, Ogasawara islands; Indo-Pacific.
- Habitat: subtidal to 10 m., rocks and sand.
- Original genus: *Murex*.

**G1565 *G. cuspidatum* (REEVE, 1844 in 1843-65)**

(= *G. lacunatum* sensu WILSON, 1993)

- Type locality: Capul & Ticao islands, Philippines.
- Distribution: Amami Ōshima and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: subtidal, rocks.
- Original genus: *Ranella*.

**G1566 *G. bituberculare* (LAMARCK, 1816-a)**

(= *Ranella cuspidatum* REEVE, 1844 in 1843-65; *Bursa fuscocostata* DUNKER, 1862;

Fushidaka-une-bora (= Togari-arare-bora; Arare-bora)

- Type locality: none designated.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, New Guinea, Indo-western Pacific.
- Habitat: intertidal, rocks.
- Original genus: *Ranella*.

**G1567 *G. roseum* (REEVE, 1844 in 1843-65)**

(= *Apollon roseus* sensu KURODA & HABE, 1952-a)

Beni-arare-bora

- Type locality: Ticao island, Philippines.
- Distribution: Kii peninsula and southwards, P5, southern Kyūshū, ECP4-ECP2, P2; Philippines, tropical Pacific.
- Habitat: intertidal to 20 m., under coral shelves.
- Original genus: *Ranella*.

**G1568 *G. hirasei* (KURODA & HABE in HABE, 1961-a)**

Hirase-une-bora

- Type locality: off Cape Ashzuri, southwestern Shikoku; ± 150 m.
- Distribution: west off Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986), Izu islands and westwards, P6-P5, EC5; Indo-western Pacific, Indonesia, New Caledonia, off

South Africa (BEU, pers. comm.)

- Habitat: 100-200 m., rubble.
- Original genus: *Biplex*.

**G1569 *G. lacunatum* (MIGHELS, 1845)**

(= *Triton laciniatum* PEASE, 1868; *Ranella polychloros* TAPPARONE-CANEFRI, 1875; *Apollon deliberatus* IREDALE, 1936; *A. facetus* IREDALE, 1936; *Apollon pusillus cuspidariaeformis* KIRA, 1956)

Isasa-bora (= Une-isasa-bora)

- Type locality: Oahu, Hawaii (Neotype designated BEU, 1998 from 'Philippine islands').
- Distribution: Izu peninsula and southwards, Ogasawara islands, P5, Japan Sea (J1), EC5, ECP4-ECP2, P2; Philippines, tropical Pacific.
- Habitat: subtidal on mud, sand or coral rubble.
- Original genus: *Triton*.

**Notes:** Mighels' type material no longer exists (JOHNSON, 1949). Neotype is specimen figured by Reeve (1844 in 1843-65: pl. 8, fig. 44a) as '*Ranella pusilla* Broderip'.

□ Genus *Biplex* PERRY, 1811

Type species: *Biplex perca* PERRY, 1811 (mt.)

**G1570 *B. perca* PERRY, 1811**

(= *Ranella pulchra* sensu REEVE, 1844 in 1843-65; *R. pulchra* GRAY sensu IWAKAWA, 1900-05; *Gyrineum perca edgerleyi* RICHARDS, 1933)

Matsukawa-gai

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, western Japan Sea (Mishima TADA, 1964), EC5, ECP4-ECP2, Indonesia, western Pacific, Australia.
- Habitat: 50-200 m., sand.

**G1571 *B. pulchra* (GRAY in SOWERBY II, 1836 in 1832-41)**

(= *Gyrineum (Biplex) perca* var. *aculeata* SCHEPMAN, 1909 in 1908-13; *Bursa (Biplex) microstoma* FULTON, 1930; *Apollon aculeatus microstoma* sensu KURODA & HABE, 1952-a; *B. microstoma* sensu HABE, 1964; OKUTANI, 1975, 1986; *B. aculeatus* sensu HABE & KOSUGE, 1967; ABBOTT & DANCE, 1982; *Gyrineum (Biplex) aculeatum* sensu SPRINGSTEEN & LEOBRERA, 1986; *B. aculeata* sensu HIGO & GOTŌ, 1993)

Kubire-matsukawa

- Type locality: none designated.
- Distribution: Enshū-nada and southwards, P6-P5, EC5, East China Sea; entire western Pacific, New Caledonia, northern Australia.
- Habitat: 50-200 m., sand.
- Original genus: *Ranella*.

□ Genus *Sassia* BELLARDI, 1872

(Refs.: Beu, 1987)

Type species: *Triton appenanicum* SASSI, 1823 (s. d. COSSMANN, 1903)

(= *Monocirsus* COSSMANN, 1889; *Cymatona* IREDALE, 1929; *Charoniella* POWELL & BARTRUM, 1929 non THIELE, 1929; *Austrosassia* FINLAY, 1931; *Phanozesta* IREDALE, 1936; *Proxicharonia* POWELL, 1938)

Subgenus *Sassia* s. str.

G1572 *S. (S.) semitorta* KURODA & HABE, 1952-a  
(= *Austrotriton nassariformis* Y. HIRASE, 1922 non SOWERBY III, 1902; *Phanozesta (Sassia) sakuraii* HABE, 1961-a)

Nise-ibo-bora (= Shiro-nise-ibo-bora)

- Type locality: east of Sydney, Australia.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, eastern Australia, New Zealand.
- Habitat: 50-200 m., fine sand.
- Original genus: *Phanozesta*.

Subfamily CYMATIINAE IREDALE, 1913

(Refs.: Beu, 1987)

□ Genus *Cymatium* RÖDING, 1798

Type species: *Murex femorale* LINNAEUS, 1758  
(= *Lotorium* MONTFORT, 1810; *Tritocurrus* LESSON, 1842; *Luterium* HERRMANNSEN, 1846 err.; *Nyctilochus* GISTL, 1848)

**Notes:** *Simpulum lirostoma* A. ADAMS, 1870 (type locality: 'Simidzu' = Shimizu, Suruga bay) and *S. nodoliratum* A. ADAMS, 1870 ('Japan') were previously placed in *Cymatium* s. str. (KURODA & HABE, 1952-a; HIGO, 1973; HIGO & GOTŌ, 1993) but are here considered *nomen dubia* as no type material or original figure can be found for either species. *Cabestana dorsuosa* A. ADAMS, 1870 ('Tatiyama' - probably Tateyama bay, Bōsō peninsula) similarly cannot be linked to any material or figure and is here considered a *nomen dubium*.

Subgenus *Linatella* GRAY, 1857

Type species: *Cassidaria cingulata* LAMARCK, 1822 (mt.; = *Triton cynocephalum* LAMARCK, 1816)

G1573 *C. (L.) cynocephalum* (LAMARCK, 1816-a)  
(= *Buccinum caudatum* GMELIN, 1791 non *Murex caudatum* GMELIN, 1791; *Cassidaria cingulata* LAMARCK, 1822 in 1815-22; *Fusus voigtii* ANTON, 1838; *Triton undosum* KIENER, 1842 non LAMARCK, 1816; *Ranularia (Lagena) rostratus* MÖRCH, 1852; *Triton (Linatella) poulsenii* MÖRCH, 1877; *Tritonocauda caudata vulticula* IREDALE, 1936; *Cymatium (Linatella) cingulatum peninsulium* M. SMITH, 1937; *C. (L.) cingulatum sensu* KURODA, 1941, 1960; KAY, 1979; *C. cingulatum sensu* KURODA & HABE, 1952-a; *L. neptunia* GARRARD, 1963; *L. poulsenii* (LAMARCK) *sensu*

OKUTANI, 1975; *L. cingulata sensu* ABBOTT & DANCE, 1982; *L. (L.) caudata sensu* SPRINGSTEEN & LEOBRERA, 1986; *L. cynocephala sensu* OKUTANI, 1975; *L. caudata sensu* HIGO & GOTŌ, 1993; HENNING & HEMMEN, 1993)

Shigeto-bora

- Type locality: none designated.
- Distribution: Sagami bay and southwards, Suruga bay, P6-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific, South Africa, Arabia, Atlantic Ocean.
- Habitat: 20-50 m., sand.
- Original genus: *Fusus*.

Subgenus *Gelagna* SCHAUFUSS, 1869

Type species: *Triton clandestinus* LAMARCK, 1816 (s. d. IREDALE, 1917; = *Murex succincta* LINNAEUS, 1771) (= *Lagena* SCHUMACHER, 1817 non WALKER & BOYS, 1784; *Paralagena* DALL, 1904)

G1574 *L. (G.) succincta* (LINNAEUS, 1771)

(= *Neptunea doliata* RÖDING, 1798; *Triton clandestinum* LAMARCK, 1816; *T. confinis* BRANCSIK, 1896; *T. (Simpulum) clandestinum sensu* IWAKAWA, 1919; *Gelagna clandestina sensu* KURODA, 1928; S. HIRASE, 1934; *Cymatium (Gelagna) clandestinum sensu* KURODA, 1941, 1960; KURODA & HABE, 1952-a; *Gelagna clandestina sensu* HABE, 1964; OKUTANI, 1975, 1986; *G. cynocephala* (LAMARCK) *sensu* HABE & KOSUGE, 1967)

Tōmaki

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Red Sea, Australia, eastern Atlantic.
- Habitat: subtidal to 20 m., rocks.
- Original genus: *Murex*.

Subgenus *Monoplex* PERRY, 1811

Type species: *Monoplex australasiae* PERRY, 1811 (s. d. CLENCH & TURNER, 1957; = *Triton parthenoepum parthenoepum* SALIS, 1793) (= *Lampusia* SCHUMACHER, 1817; *Cymatriton* CLENCH & TURNER, 1957)

G1575 *C. (M.) parthenoepum echo* KURODA & HABE in KIRA, 1961

(= *Triton olearium* LINNE *sensu* IWAKAWA, 1900-05, 1919; *C. parthenoepum* (SALIS.) *sensu* S. HIRASE, 1934; *Monoplex australasiae* PERRY *sensu* HABE & KOSUGE, 1967; *C. (M.) parthenoepum sensu* CERNOHORSKY, 1972; ABBOTT & DANCE, 1982; WILSON, 1993) Kako-bora (= Tachi-inu-kako-bora)

- Type locality: Fukura, Awaji island, eastern Seto inland sea.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea.
- Habitat: subtidal to 70 m., rubble.

G1576 *C. (M.) mundum* (GOULD, 1849 in 1846-50)  
(= *Triton gemmatum* auct. non REEVE, 1844 in 1843-65; *T. mauritiatum* TAPPARONE-CANEFRI, 1876; *C. (Septa) gemmatum (pars) sensu* KURODA, 1928, 1941)  
Shiro-shinomaki

- Type locality: Tutuilla, Samoa islands.
- Distribution: Amami islands and southwards, ECP3-ECP2; Indo-Pacific eastwards to Galapagos (EMERSON, 1991).
- Habitat: intertidal to 30 m., sand in coral reefs.
- Original genus: *Triton*.

G1577 *C. (M.) gemmatum* (REEVE, 1844 in 1843-65)  
Hoso-juseira

- Type locality: 'Island of Ticao, Philippines (found on stones at low water)'.
- Distribution: Amami islands and southwards, ECP3-ECP2, Ogasawara islands; Philippines, western Pacific.
- Habitat: intertidal to 100 m., sand and coral.
- Original genus: *Triton*.

**Notes:** see EMERSON (1991).

G1578 *C. (M.) pileare* (LINNAEUS, 1758)  
(= *Tritonium haemastoma* VALENCIENNES, 1832; *T. beccarii* TAPPARONE-CANEFRI, 1875; *C. vestitum insulare* PILSBRY, 1921; *Saginafusus pricei perficus* IREDALE, 1931; *C. andoi* NOMURA, 1935; *C. (Monoplex) pileare orientalis* GARCIA-TALAVERA, 1987)

Shinomaki

- Type locality: 'in *M. Mediterraneo*' (Mediterranean sea; incorrect. See DODGE, 1957 in 1952-59).
- Distribution: Izu islands and southwards, Ogasawara islands, Enshū-nada (off Atsumi peninsula, Aichi prefecture KIMURA, 1996-a), P6-P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Australia.
- Habitat: intertidal to 70 m., sand and coral reefs.
- Original genus: *Murex*.

G1579 *C. (M.) aquatile* (REEVE, 1844 in 1843-65)  
(= *Murex pileare* auct. non LINNAEUS, 1758; *C. pileare var cruzana* NOWELL-USTICKE, 1959)  
Satsuma-bora

- Type locality: 'Island of Ticao, Philippines (found on the reefs at low water)'.
- Distribution: Izu islands and southwards, P11, Ogasawara islands, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Indo-western Pacific, Australia.

- Habitat: intertidal to 10 m., coral reefs; under coral shelves.

- Original genus: *Triton*.

G1580 *C. (M.) intermedium* (PEASE, 1869-a)  
(= *Lampusia kikaiensis* SHIKAMA, 1970; *C. aquatilis kikaiensis sensu* HIGO & GOTŌ, 1993)

Hawaii-satsuma-bora

- Type locality: 'Insl. Oahu' (Hawaii).
- Distribution: Ogasawara islands (FUKUDA, 1995), Amami islands (Kikai island SHIKAMA, 1970); Hawaii.
- Original genus: *Triton*.

G1581 *C. (M.) nicobaricum* (RÖDING, 1798)

(= *Tritonium lotorium* LINK, 1807; *Triton chlorostomum* LAMARCK, 1822 in 1815-22; *Triton pulchellus* C. B. ADAMS, 1850; *Triton chlorostomus sensu* IWAKAWA, 1900-05, 1919; *C. (Septa) chlorostoma sensu* KURODA, 1928, 1941; *C. chlorostoma sensu* KURODA & HABE, 1952-a)

Mitsukado-bora

- Type locality: none originally given; designated 'Jamaica' (CLENCH & TURNER, 1957).
- Distribution: Ogasawara islands and southwards, P11, Kii peninsula, P5, southern Kyūshū, ECP4-ECP2; Indo-Pacific, Atlantic Ocean.
- Habitat: intertidal to 10 m., rocks and sand.
- Original genus: *Tritonium*.

G1582 *C. (M.) comptum* (A. ADAMS, 1855-1)

(= *Triton ridleyi* E. A. SMITH, 1890)

Reishi-bora

- Type locality: China.
- Distribution: Ogasawara islands (FUKUDA, 1995), Amami islands and southwards, ECP3-ECP2; China, Indo-western Pacific, Atlantic Ocean.
- Habitat: intertidal to 200 m., rocks.
- Original genus: *Triton*.

**Notes:** the four syntypes of this species seem to represent three distinct species, including one figured by T. C. Yen (Proc. Mal. Soc. Lon. vol. 24, p. 215, pl. 18, fig. 112) as the lectotype of *C. compta*.

G1583 *C. (M.) exaratum küiense* (SOWERBY III, 1915)

(= *Triton waterhousei* ADAMS & ANGAS sensu IWAKAWA, 1900-05, 1919; '*C. (T.)* sp. (*aegrotum* REEVE var.)' sensu KURODA, 1928; '*C. (T.) zimara* IREDALE var.' sensu KURODA, 1960; *Turritriton loebbeckei* LISCHKE sensu HABE & KOSUGE, 1967; *Cabestanimorpha tabulata aegrotum sensu* HIGO & GOTŌ, 1993)

Kukuri-bora (= Kii-kukuri-bora; Kuro-obi-kukuri-bora)

- Type locality: 'Kii, Japan' (Kii peninsula, central Honshū).
- Distribution: Bōsō peninsula and southwards, P7-P5,



Japan Sea (Oga peninsula, J3-J1), Ogasawara islands, EC5, ECP4.

- Habitat: subtidal to 150 m., rocks.
- Original genus: *Lotorium* (*Cymatium*).

G1584 *C. (M.) vespaceum* (LAMARCK, 1822 in 1815-22)

(= *Triton gracilis* REEVE, 1844 in 1843-65; *T. elongatus* REEVE, 1844 in 1843-65; *T. thersites* REEVE, 1844 in 1843-65; *C. (Turriritron) thersites sensu* KURODA, 1960; *C. thersites sensu* ABBOTT & DANCE, 1982; *C. (Cabestanimorpha) thersites sensu* HABE & OKUTANI, 1985; *Cabestanimorpha thersites sensu* HIGO & GOTŌ, 1993)

Hachi-bora (= Hai-iro-bora)

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2; Indo-Pacific, Red Sea.
- Habitat: intertidal, rocks.
- Original genus: *Triton*.

G1585 *C. (M.) tenuiliratum* (LISCHKE, 1873 in 1868-73)

Naga-suzu-kake-bora (= Jōra)

- Type locality: 'von einem nicht näher bezeichneten Küstenpunkte des südlichen Japan' (coast of southern Japan).
- Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay TSUCHIDA, 1990) and southwards, P9-P5, P11, Ogasawara islands, Japan Sea (Noto peninsula, J2-J1), EC5; Philippines, Atlantic Ocean.
- Habitat: 50-100 m., sand and gravel.
- Original genus: *Triton*.

Subgenus *Septa* PERRY, 1810

(Refs.: Beu, 1987)

Type species: *Septa scarlatina* PERRY, 1810 (mt.; = *Murex rubecula* LINNAEUS, 1758) (= *Simpulum* MÖRCH, 1852 non FABRICIUS, 1823; *Simplum sensu* STOLICZKA, 1867 err.)

G1586 *C. (S.) rubeculum* (LINNAEUS, 1758)

(= *Septa scarlatina* PERRY, 1810 in 1810-11; *Triton rubeculatum* LIENARD, 1877)

Shōjōra

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific, Hawaii.
- Habitat: intertidal, coral and rocks.
- Original genus: *Murex*.

G1587 *C. (S.) hepatica* (RÖDING, 1798)

(= *Cymatium rubeculum auct. non* RÖDING, 1798; *Triton (Simpulum) rubecula sensu* IWAKAWA, 1919; *Cymatium (Septa) rubecula (pars) sensu* KURODA, 1928, 1941; *C.*

*rubecula (pars) sensu* S. HIRASE, 1934)

Juseira

- Type locality: none originally given; designated 'northern coast of New Guinea' (BEU, 1987).
- Distribution: Kii peninsula and southwards, Ogasawara islands, P5, southern Kyūshū, ECP4-ECP2; Korea (Cheju island), tropical Indo-Pacific, Australia.
- Habitat: subtidal to 10 m., under coral shelves.
- Original genus: *Tritonium*.

G1588 *C. (S.) flaveolum* (RÖDING, 1798)

(= *Tritonium limbatum* RÖDING, 1798; *Triton rubecula occidentale* MÖRCH, 1877; '*Septa (?) blacketi* IREDALE, 1936; '*C. limbatum?*' sensu KURODA & HABE, 1952-a) Banzaira (= Somewake-bora)

- Type locality: none originally given; neotype designated by BEU, 1986 from 'Sorido village, Biak island, Indonesia'.
- Distribution: Amami islands and southwards, ECP3-ECP2; Indonesia, Indo-western Pacific.
- Habitat: intertidal to 30 m., coral and rocks.
- Original genus: *Tritonium*.

Subgenus *Turriritron* DALL, 1904-a

Type species: *Triton gibbosus* BRODERIP, 1833 (o. d.) (= *Tritoniscus* DALL, 1904; *Particymatium* IREDALE, 1936; *Cabestanimorpha* IREDALE, 1936; *Parlycymatium* IREDALE sensu WENZ, 1941 err. pro Parti-)

G1589 *C. (T.) labiosus* (WOOD, 1828 in 1818-28)

(= *Tritonium rutilum* MENKE, 1843; *Tritonium lorosii* PETIT DE LA SAUSSAYE, 1852; *Triton strangei* A. ADAMS & ANGAS, 1864-b; *Triton loebbecke* LISCHKE, 1871; *Triton (Gutturinum) orientalis* G. & H. NEVILL, 1874)

Hime-mitsukado-bora (= Semushi-bora; Kuni-bora)

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2; Indo-western Pacific, Red Sea, Australia, Atlantic Ocean.
- Habitat: intertidal to 10 m., coral and sand.
- Original genus: *Murex*.

Notes: see EKAWA (1985-c).

Subgenus *Reticutriton* HABE & KOSUGE, 1966-b

Type species: *Triton pfeifferianus* REEVE, 1844 (o. d.)

G1590 *C. (R.) pfeifferianum* (REEVE, 1844 in 1843-65)

Date-suzukake-bora (= Hime-suzukake-bora)

- Type locality: none designated.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, Indo-Pacific, Red Sea.
- Habitat: intertidal to 30 m., sandy mud.
- Original genus: *Triton*.

Subgenus *Gutturinum* MÖRCH, 1852

Type species: *Tritonium muricinum* RÖDING, 1798

G1591 *C. (G.) muricinum* (RÖDING, 1798)

(= *Tritonium nodulus* LINK, 1807; *Triton tuberosum* LAMARCK, 1822 in 1815-22; *Triton antillarum* D'ORBIGNY, 1842; *Triton crispus* REEVE, 1844; *Triton pyriformis* CONRAD, 1849-c; *Litiopa obesa* C. B. ADAMS, 1850; *Murex ranula* MÖRCH, 1852; *Triton productum* GOULD, 1852; *Triton albocingulata* DESHAYES, 1863; *Triton tuberosus sensu* IWAKAWA, 1900-05, 1919; *Triton (Gutturium) tuberosus (sic) sensu* Y. HIRASE, 1907; *C. (G.) tuberosum sensu* KURODA, 1928; *C. (G.) nonulus (sic) sensu* KURODA, 1941; *C. nodulus sensu* KURODA & HABE, 1952-a; *C. (G.) muricatum (sic) sensu* HABE & OKUTANI, 1985) Shio-bora

- Type locality: none designated.
- Distribution: Izu islands and southwards, P11, Ogasawara islands, P6-P5, western Japan Sea (Yamaguchi prefecture, J1), EC5, ECP4-ECP2; Indo-Pacific, Atlantic Ocean.
- Habitat: intertidal to 20 m., coarse sand and stones, coral rubble, mud.
- Original genus: *Tritonium*.

Subgenus *Ranularia* SCHUMACHER, 1817

(Refs: Beu, 1987)

Type species: *Tritonium clavator* CHEMNITZ, 1795 (s. d. GRAY, 1847; = *Tudicla gutturnium* RÖDING, 1798) (= *Retusum* JOUSSEAUME, 1892; *Tritonocauda* DALL, 1904)

G1592 *C. (R.) gutturnium* (RÖDING, 1798)

(= *Tritonium macrourum* LINK, 1807; *Monoplex formosus* PERRY, 1811; *Ranularia longirostra* SCHUMACHER, 1817; *R. labiata* SCHUMACHER, 1817; *Murex clavator* DILLWYN, 1817; *C. (R.) formosum sensu* KURODA, 1928; S. HIRASE, 1934)

Tsuburi-bora

- Type locality: none originally given; neotype designated from 'Visayan Sea, Philippine Islands' (BEU, 1986).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2; Philippines, Indo-western Pacific.
- Habitat: 20-50 m., sand and coral.
- Original genus: *Tudicla*.

G1593 *C. (R.) caudatum* (GMELIN, 1791)

(= *Buccinum costatum* MEUSCHEN, 1787 non-binominal; *Triton canaliferum* LAMARCK, 1822 in 1815-22) Onaga-gai

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2, P2; Philippines, Australia.
- Habitat: 10-50 m., coral and sand.

- Original genus: *Murex*.

G1594 *C. (R.) dunkeri* (LISCHKE, 1868 in 1868-73)

Koshitaka-fujitsu

- Type locality: 'Nagasaki' (western Kyūshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5; Korea.
- Habitat: 20-50 m., rocks.
- Original genus: *Triton*.

G1595 *C. (R.) encausticum* (REEVE, 1844 in 1843-65)

(= *Triton pyriformis* A. ADAMS, 1855-1 non CONRAD, 1849-c)

Hashinaga-bora

- Type locality: 'Island of Ticao, Philippines (found on the reefs at low water)'.
- Distribution: Kii peninsula and southwards, P5, southern Kyūshū, ECP4-ECP2, P2; Philippines, western Pacific.
- Habitat: 10-50 m., rocks.
- Original genus: *Triton*.

G1596 *C. (R.) exilis* (REEVE, 1844 in 1843-65)

(= *Triton clavator* J. & G. SOWERBY, 1826 non DILLWYN, 1817; *C. (R.) gutturnium (pars) sensu* CERNOHORSKY, 1972)

Yase-tsuburi-bora

- Type locality: 'San Nicolas, island of Zebu (Cebu), Philippines (found in sandy mud at the depth of ten fathoms)'.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, tropical Indo-Pacific, Red Sea.
- Habitat: intertidal to 55 m., sand and coral.
- Original genus: *Triton*.

G1597 *C. (R.) pyrum* (LINNAEUS, 1758)

(= *C. flexuosum*, *canaliculatum*, *clavatum*, *muricatum*, all RÖDING, 1798)

Ō-zogai

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, western Japan Sea (Yamaguchi prefecture SUGIMURA, 1992, J1), EC5, ECP4-ECP2; Indo-western Pacific, Red Sea.
- Habitat: intertidal to 10 m., coral and sand.
- Original genus: *Murex*.

G1598 *C. (R.) sarcostoma* (REEVE, 1844 in 1843-65)

Niku-iro-fujitsu

- Type locality: 'Island of Ticao, Philippines (found on the reefs)'.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-western Pacific.
- Habitat: subtidal to 30 m., rocks or coral.
- Original genus: *Triton*.

G1599 *C. (R.) sinensis* (REEVE, 1844 in 1843-65)

(= *Ranularia sinensis defrenata* IREDALE, 1936)

Zō-gai

- Type locality: 'China'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (off Mishima, J2-J1), EC5, ECP4-ECP2, P2; Philippines, western Pacific, Australia.
- Habitat: 50-200 m., sand and rocks.
- Original genus: *Triton*.

G1600 *C. (R.) testudinarium* (ADAMS & REEVE, 1850 in 1848-50)

Kanetsuke-fujitsu

- Type locality: 'China Sea'.
- Distribution: Kii peninsula, P5, western Kyūshū (off Ushibuka); Taiwan, Philippines, New Caledonia, Mauritius.
- Habitat: 20-100 m., rocks.
- Original genus: *Triton*.

Subgenus *Lotoria* EMERSON & OLD, 1963

Type species: *Cymatium (Lotoria) perryi* EMERSON & OLD, 1963 (o. d.)

G1601 *C. (L.) lotorium* (LINNAEUS, 1758)

(= *C. rhinoceros* RÖDING, 1798; *Triton distortum* LAMARCK, 1816; *Triton cynocephalus* LAMARCK sensu IWAKAWA, 1900-05)

Fujitsu-gai

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, Ogasawara islands, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-western Pacific, Australia.
- Habitat: intertidal to 20 m., coral and rocks.
- Original genus: *Murex*.

G1602 *C. (L.) grandimaculatum* (REEVE, 1844 in 1843-65)

Kurofu-fujitsu-gai

- Type locality: 'Matnog, Province of Albany, island of Luzon' (Philippines).
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2; northern Indo-Pacific, western Pacific, Red Sea.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Triton*.

**Notes:** the three syntypes in the BMNH apparently represent two species.

□ Genus *Charonia* GISTL, 1848

Type species: *Murex tritonis* LINNAEUS, 1758 (by tautonymy)

(= *Tritonium* RÖDING, 1798 non MÜLLER, 1778; *Triton* MONTFORT, 1810 non LINNAEUS, 1758; *Tritonia* BOWDICH, 1822 non CUVIER, 1798; *Tritonium* MONTFORT in BOWDICH, 1822 em.; *Charonis* GISTL in MÖRCH, 1877 err.; *Buccinatorium* MÖRCH, 1877;

*Tritonellium* MÖRCH, 1877 non VALENCIENNES, 1858; *Septa* PERRY sensu DALL & SIMPSON, 1901 non PERRY, 1810 in 1810-11; *Eutritonium* COSSMANN, 1904; *Eutriton* COUTURIER, 1907 err.)

G1603 *C. tritonis* (LINNAEUS, 1758)

(= *Triton marmoratum* LINK, 1807; *Triton imbricata* W. H. ADAMS, 1868)

Hora-gai

- Type locality: 'in Archipelago, America' (LINNAEUS, 1758); Linnaeus added 'in Oriente et Africa' in 1767.
- Distribution: Izu islands and southwards, P11, Ogasawara islands, P6-P5, ECP4-ECP2; Indo-western Pacific, Red Sea, French Polynesia, Australia, New Zealand.
- Habitat: intertidal to 20 m., on coral reefs and rocks.
- Original genus: *Murex*.

G1604 *C. lampas sauliae* (REEVE, 1844 in 1843-65)

(= *Triton nodiferus* sensu IWAKAWA, 1900-05, 1919; Y. HIRASE, 1907; *C. lampas macilenta* KURODA & HABE in HABE, 1961-a; *C. sauliae macilenta* sensu OKUTANI, 1975, 1986)

Bōshū-bora (= Nankai-bora; Tōkai-bora)

- Type locality: 'Matnog island, Luzon, Philippines'.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea.
- Habitat: 10-50 m., rocks.

Family **PISANIANURIDAE WARÉN & BOUCHET, 1990**

□ Genus *Pisanianura* ROVERTO, 1899

Type species: *Murex inflatus* BROCCCHI, 1814

(= *Anura* BELLARDI, 1873 non HODGSON, 1841; *Kaiparanura* LAWS, 1944; *Laminilabrum* KURODA & HABE in HABE, 1961-a; *Nawenia* LADD, 1977)

G1605 *P. breviaxe* (KURODA & HABE in HABE, 1961-a)

Yaiba-bora

- Type locality: off Kōchi prefecture, southern Shikoku.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and westwards to southern Shikoku, southwestern Kyūshū, East China Sea; New Caledonia, New Zealand.
- Habitat: 150-200 m., fine sand.
- Original genus: *Laminilabrum*.

Family **PERSONIDAE GRAY, 1854**

□ Genus *Distorsio* RÖDING, 1798

(Refs.: Beu, 1987)

Type species: *Murex anus* LINNAEUS, 1758 (s. d.

PILSBRY, 1922)

(= *Distortrix* LINK, 1807; *Persona* MONTFORT, 1810; *Distorta* PERRY, 1811 err.; *Distortio* GRAY, 1847 em.; *Distorsus*, *Distorsia*, *Distrotrix* auct.; *Rhysema* CLENCH

& TURNER, 1957)

G1606 *D. anus* (LINNAEUS, 1758)

(= *Distorta rotunda* PERRY, 1811; *Distorta rugosa* SCHUMACHER, 1817)

Shima-ibo-bora (= Shiwa-kuchi-bora)

- Type locality: 'in *O. Asiatico*' (Asian seas).
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Indo-western Pacific, Australia.
- Habitat: intertidal to 45 m., under rocks, coral.
- Original genus: *Murex*.

G1607 *D. habeii* LEWIS, 1972

Kogata-ibo-bora

- Type locality: Tosa bay, southern Shikoku.
- Distribution: Kii peninsula and southwards, Tosa bay, ECP4-ECP2, Ogasawara islands (FUKUDA, 1995); Philippines, Australia.
- Habitat: 80-200 m., rocks.

**Notes:** originally ssp. of *D. constricta*.

G1608 *D. reticularis* (LINNAEUS, 1758)

(= *D. reticulata* RÖDING, 1798; *Distorta acuta* PERRY, 1811; *Distorsio cancellinus sensu* IWAKAWA, 1900-05, 1919; Y. HIRASE, 1907; *Persona reticulata* var.

*subclathrata* VREDENBURG, 1922; *Distorsio reticulata sensu* KURODA, 1928, 1941, 1960; S. HIRASE, 1934; KURODA & HABE, 1952-a; KIRA, 1962; HABE & KOSUGE, 1967; OKUTANI, 1975, 1986; ABBOTT & DANCE, 1982; SPRINGSTEEN & LEOBRERA, 1986; HABE & OKUTANI, 1985; HIGO & GOTŌ, 1993; *Distorsio francescae* IREDALE, 1931)

Ibo-bora

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2, P2; Philippines, Indo-western Pacific, Australia.
- Habitat: 50-200 m., rocks.
- Original genus: *Murex*.

**Notes:** Egao-ibo-bora *Triton clathrata* LAMARCK, 1816, previously thought to be distributed in Japan, is restricted to the western Atlantic (A. BEU, pers. comm.) See EMERSON & SAGE, 1990; EMERSON & PIECH, 1994.

G1609 *D. perdistorta* FULTON, 1938

(= *D. horrida* KURODA & HABE in HABE, 1961-a; *D. habeii sensu* HABE, 1964; *D. horrida sensu* HIGO & GOTŌ, 1993)

Ō-magari-ibo-bora

- Type locality: Kii peninsula, central Honshū.
- Distribution: Kii peninsula and southwards, P5, EC5, East China Sea; Indo-western Pacific, Madagascar, Atlantic Ocean.

- Habitat: 100-340 m., sand.

G1610 *D. decipiens* (REEVE, 1844 in 1843-65)

Kanoko-ibo-bora

- Type locality: Mindanao, Philippines.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, New Caledonia, entire Indo-western Pacific to South Africa.
- Habitat: 50-100 m., sand.
- Original genus: *Triton*.

G1611 *D. kurzi* PETUCH & HARASEWYCH, 1980

Kadobari-ibo-bora

- Type locality: off Balicasag island, Bohol, Philippines; 120-150 m.
- Distribution: Kii peninsula (HABE, 1983) and southwards, southern Shikoku; Philippines, Andaman islands, New Caledonia, entire Indo-western Pacific to South Africa.
- Habitat: 50-150 m., sand.

□ Genus *Personopsis* BEU, 1988

Type species: *Triton grasi* BELLARDI, 1872 (o. d.)

G1612 *P. pusilla* (PEASE, 1860-b)

Sazare-ibo-bora

- Type locality: 'Sandwich islands' (Hawaii).
- Distribution: Kii peninsula and southwards, P5, EC5, East China Sea, ECP4-ECP2, P2; Philippines, New Caledonia, Hawaii.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Triton*.

Family BURSIDAE THIELE, 1925

(Refs.: Cossigniani, 1994)

□ Genus *Bursa* RÖDING, 1798

Type species: *Bursa monitata* RÖDING, 1798 (s. d. JOUSSEAUME, 1881; = *Murex bufonius* GMELIN, 1791) (= *Rana* HUMPHREY, 1797 invalid; *Lampadopsis* JOUSSEAUME, 1881; *Pseudobursa* ROVERETO, 1899; *Bufonariella* THIELE, 1929; *Dulcerana* IREDALE, 1931 nom. nud.; *Annaperenna* IREDALE, 1936; *Dulcerana* IREDALE in ŌYAMA, 1964; *Tritonoranella* ŌYAMA, 1964)

Subgenus *Bursa s. str.*

G1613 *B. (B.) bufonia* (GMELIN, 1791)

(= *B. monitata* RÖDING, 1798; *B. mammata* RÖDING, 1798; *Gyrineum bufo* var. *sensu* DUNKER, 1882; *B. dunkeri* KIRA, 1962; *B. bufonia dunkeri sensu* KURODA et al., 1971, SAKURAI, 1986, HIGO & GOTŌ, 1993, FUKUDA, 1993)

Oki-nishi (= Shiromi-oki-nishi; Gama-oki-nishi)

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-western Pacific, Australia.

- Habitat: intertidal to 10 m., rocks or coral.
- Original genus: *Murex*.

G1614 ***B. (B.) rhodostoma* (SOWERBY II, 1832 in 1832-41)**

(= *B. bergeri*, *paulucciana*, *xanthostoma*, all TAPPARONE-CANEFRI, 1880; *B. venustula* REEVE *sensu* EDMONSON, 1933)

Ohaguro-oki-nishi

- Type locality: Masbate, Philippines.
- Distribution: Izu islands and southwards, P11, western Ogasawara islands, P6-P5, western Kyūshū, ECP4-ECP2; Indo-Pacific.
- Habitat: 10-30 m., offshore on rocks or coral sand.
- Original genus: *Ranella*.

G1615 ***B. (B.) cruentata* (SOWERBY II, 1841-c)**

Shiwa-oki-nishiki

- Type locality: 'ad insulam Ticao, Philippinarum' (Ticao, Philippines).
- Distribution: Izu islands and southwards, P11, Ogasawara islands, P6-P5, ECP4-ECP2, P2; Philippines, Indian Ocean, central and western Pacific.
- Habitat: 10-30 m., offshore near rocks or coral reefs.
- Original genus: *Ranella*.

G1616 ***B. (B.) lamarckii* (DESHAYES, 1853 in 1839-58)**

(= *B. bufonia* var. *sensu* KURODA & HABE, 1952-a; *B. bufonia sensu* HABE & KOSUGE, 1967; *B. muehlhaeusseri* PARTH, 1990)

Kuromi-oki-nishi (= Kuchiguro-oki-nishi)

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-western Pacific, Australia.
- Habitat: intertidal to 20 m., near coral reefs.
- Original genus: *Ranella*.

**Notes:** originally published in the extremely rare 'Explication des planches' section of Deshayes, 1839-58.

G1617 ***B. (B.) tuberosissima* (REEVE, 1844 in 1843-65)**

(= *B. (B.) leo* SHIKAMA, 1964; *Ranella siphonata* REEVE, 1844 var. *sensu* COSSIGNIANI, 1994)

Kobu-oki-nishi (= Kogata-oki-nishi; Shishi-gashira; Oki-nishi)

- Type locality: 'Philippine Islands'.
- Distribution: Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; Philippines, Indonesia.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Ranella*.

G1618 ***B. (B.) rosa* (PERRY, 1811)**

(= *Ranella siphonata* REEVE, 1844; *Bufonaria rosea* (*sic*) *sensu* OKUTANI, 1975, 1986)

Kuchi-murasaki-oki-nishi

- Type locality: 'New Caledonia'

- Distribution: Izu islands and southwards, P11, Ogasawara islands, P6-P5, ECP4-ECP2, P2; Philippines, tropical Pacific, Australia.

- Habitat: intertidal to 20 m., coral reefs.

- Original genus: *Biplex*.

G1619 ***B. (B.) asperrima* DUNKER, 1862-a**

(= *Lampadopsis tutufa sensu* ŌYAMA & TAKEMURA, 1963 in 1959-63: fig. 5)

- Type locality: 'China'.

- Distribution: southern Japan; China, Philippines.

**Notes:** Kanetsuke-oki-nishi *Ranella venustula* REEVE, 1844 in 1843-65 is only known from eastern Polynesia (A. BEU, pers. comm.). The status of Japanese specimens previously assigned to this name is uncertain.

Subgenus ***Colubrellina* FISCHER, 1884**

Type species: *Murex condita* GMELIN, 1791

G1620 ***B. (C.) condita* (GMELIN, 1791)**

(= *Ranella candidata* LAMARCK, 1816)

Chirimen-une-bora

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, tropical western Pacific, Australia, New Caledonia.
- Habitat: offshore, 10-100 m., rubble.
- Original genus: *Murex*.

G1621 ***B. (C.) granularis* (RÖDING, 1798)**

(= *Murex jabik* RÖDING, 1798; *Biplex rubicola* PERRY, 1811; *Ranella granifera* LAMARCK, 1816; *R. semigranosa* LAMARCK, 1816; *R. affinis* BRODERIP, 1833; *B. livida* REEVE, 1844; *R. granifera sensu* IWAKAWA, 1900-05, 1919, Y. HIRASE, 1907; *B. corrugata rubicola sensu* KURODA, 1928; *B. alfredensis* TURTON, 1932; *B. kowiensis* TURTON, 1932; *B. (Dulcerana) jabick (sic)*, *B. (D.) semigranosa sensu* KURODA, 1941, KURODA & HABE, 1952-a; *B. (C.) corrugata (pars) sensu* KURODA, 1960; *C. (D.) jabicki (sic) sensu* HIGO & GOTŌ, 1993)

Iwakawa-une-bora (= Une-bora)

- Type locality: none designated.
- Distribution: Suruga bay and southwards, P11, Japan sea (Hagi, Yamaguchi prefecture, FUKUDA & FUJIWARA, 1997), Ogasawara islands and westwards, P6-P5, EC5, ECP4-ECP2; Indo-Pacific, western Atlantic.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Murex*.

G1622 ***B. (C.) ranelloides* (REEVE, 1844 in 1843-65)**

(= *Simpulum papillosum* A. ADAMS, 1870; *Ranella scrobiculator* LINNE *sensu* IWAKAWA, 1900-05; *B. (Lampas) ranelloides tenuisculpta* DAUTZENBERG & FISCHER, 1906; *Ranella (Lampas) scrobiculator*)

LINNAEUS *sensu* IWAKAWA, 1919; *B. finlayi* MCGINTY, 1962; *B. canarica* NORDSIECK, 1975; *B. benvegnue* PENNA-LEME & NEME, 1978)

Ko-naruto-bora

- Type locality: 'Matnog, Province of Albay, Island of Luzon, Philippines'. Erroneous; not known from the Philippines (A. BEU, pers. comm.)
- Distribution: Bōsō peninsula and southwards, Izu islands, P7-P5, EC5, East China Sea, ECP4-ECP2, P2; Indian Ocean, Réunion, South Africa, Atlantic Ocean.
- Habitat: intertidal to 200 m., rubble.
- Original genus: *Triton*.

□ Genus *Bufonaria* SCHUMACHER, 1817

Type species: *Bufonaria spinosa* SCHUMACHER, 1817 (s. d. HERRMANNSEN, 1846; = *Gyrineum echinatum* LINK, 1807)

(= *Chasmotheca* DALL, 1904; *Bursina* ŌYAMA, 1964)

Subgenus *Bufonaria s. str.*

G1623 *Bf. (Bf.) echinata* (LINK, 1807 in 1806-08)

(= *Ranella spinosa* LAMARCK, 1816)

Hari-miyako-bora

- Type locality: none designated.
- Distribution: southern Okinawa islands and southwards; Taiwan, South China Sea, northern Indian Ocean.
- Habitat: 10-50 m., sand.
- Original genus: *Gyrineum*.

G1624 *Bf. (Bf.) rana* (LINNAEUS, 1758)

(= *Ranella albivaricosa* REEVE, 1844 in 1843-65; *R. albivaricosa sensu* IWAKAWA, 1900-05; Y. HIRASE, 1907; IWAKAWA, 1919; *Gyrineum scelestum* YOKOYAMA, 1928; *G. cavitensis sensu* RIPPINGALE & MCMICHAEL, 1961)

Miyako-bora

- Type locality: 'in *O. Asiatico*' (Asian seas).
- Distribution: Bōsō peninsula and southwards, P7-P5, Ōsaka bay (OKAMURA & KOJIMA, 1984), Japan Sea (off Atsumi, Yamagata prefecture SUZUKI, 1979; off Cape Hino, Shimane prefecture; J2-J1), EC5, ECP4-ECP2; Korea, northwestern Pacific, Australia.
- Habitat: 20-100 m., fine sand.
- Original genus: *Murex*.

G1625 *Bf. (Bf.) perelegans* BEU, 1987

(= *Gyrineum elegantuta (sic)* SOWERBY *sensu* HABE & KOSUGE, 1967; OKUTANI, 1975; *Bufonaria sp. sensu* SPRINGSTEEN & LEOBRERA, 1986)

Uni-miyako-bora

- Type locality: 'off southwestern Taiwan'.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, East China Sea, Indo-Pacific, New Caledonia.
- Habitat: 20-50 m., sand.

**Notes:** this species was previously cited as *Bursa elegans* BECK in SOWERBY II, 1841-c, but *elegans* is restricted to the Andaman islands and western Sumatra (A. BEU, pers. comm.)

G1626 *Bf. (Bf.) margaritula* (DESHAYES in BELANGER, 1832)

(= *Ranella neglecta* SOWERBY II, 1841-c; *Gyrineum (Chasmotheca) cavitense* (BECK) *sensu* ŌYAMA, 1959 in ŌYAMA & TAKEMURA, 1959-63)

Gamaguchi-miyako-bora

- Type locality: 'on the rocks of the Malabar coast' (India).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: 10-50 m., under coral in sand.
- Original genus: *Ranella*.

G1627 *Bf. (Bf.) nobilis* (REEVE, 1844 in 1843-65)

(= *Bursa bufonia dunkeri sensu* LADD, 1982 (*pars.*) non KIRA, 1962)

Oni-une-bora

- Type locality: none designated.
- Distribution: southern Shikoku and southwards, P5, ECP4-ECP2, P2; Philippines, western Pacific.
- Habitat: 20-100 m., sand.
- Original genus: *Ranella*.

□ Genus *Tutufa* JOUSSEAUME, 1881

(Refs.: Beu, 1981; 1987)

Subgenus *Tutufa s. str.*

G1628 *T. (T.) bufo* (RÖDING, 1798)

(= *Ranella lampas sensu* IWAKAWA, 1900-05, 1919; Y. HIRASE, 1907; *Bursa californica sensu* SUTER, 1906; *Argobuccinum siphonatum* IREDALE, 1910; *Bursa rubeta lissostoma* E. A. SMITH, 1914-c; *B. lampas sensu* TINKER, 1952)

Ō-naruto-bora (= Naruto-bora; Take-no-ne-gai)

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands and westwards, P7-P5, western Japan Sea (Yamaguchi prefecture TADA, 1964; J1), ECP4-ECP2, P2; Philippines, Indo-Pacific, Australia.
- Habitat: subtidal to 50 m., rocks.
- Original genus: *Tritonium*.

G1629 *T. (T.) bubo* (LINNAEUS, 1758)

(= *Bursa rubeta gigantea* E. A. SMITH, 1914-c)

Shiro-naruto-bora

- Type locality: none given; reference to Rumphius. See BEU, 1981.
- Distribution: Kii peninsula and southwards, Ogasawara islands and westwards, P5, EC5, East China Sea, ECP4-ECP2, P2; Philippines, Indo-Pacific, Australia.
- Habitat: subtidal to 50 m., offshore rocks.

• Original genus: *Murex* (as var. of *M. lampas*)  
**Notes:** for discussion of the complex history of this species name see E. A. SMITH, 1914-c; DODGE, 1957 in 1952-59; BEU, 1981.

G1630 *T. (T.) tenuigranosa* (E. A. SMITH, 1914-c)

Heso-aki-naruto-bora

- Type locality: none designated.
- Distribution: western Kyūshū and southwards, East China Sea, ECP4-ECP2, P2; Taiwan, Philippines, South China Sea, Indonesia.
- Habitat: 50-200 m., rubble.
- Original genus: *Bursa* (*Tutufa*), as var. of *B. rubeta*.

**Notes:** specimens from the western Indian Ocean and Australia are apparently of a separate, un-named species (A. BEU, pers. comm.)

Subgenus *Tutufella* BEU, 1981

(= *Lampas* SCHUMACHER, 1817 non MONTFORT, 1808)

G1631 *T. (Tutufella) rubeta* (LINNAEUS, 1758)

(= *Tritonium tuberosum* RÖDING, 1798; *Biplex tuberculus* PERRY, 1811; *Lampas hians* SCHUMACHER, 1817; *L. caledonicus* JOUSSEAUME, 1881)  
 Shiwa-kuchi-naruto-bora

- Type locality: none given; reference to Rumphius.
- Distribution: Kii peninsula and southwards, P11, Ogasawara islands and westwards, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-western Pacific, Australia.
- Habitat: subtidal to 30 m., rocks.
- Original genus: *Murex* (as var. of *M. lampas*).

**Notes:** for discussion see DODGE, 1957 in 1952-59; BEU, 1981.

G1632 *T. (Tutufella) oyamai* HABE, 1961-a

(= *Gyrineum (Lampas) ranelloides* MELVILL & STANDEN, 1899 non REEVE, 1844 in 1843-65; *Tutufa tenuigranosa sensu* VANATTA, 1914; HEDLEY, 1916; HABE, 1961; ŌYAMA & TAKEMURA, 1963; HABE, 1964, non E. A. SMITH, 1914; *T. bubo sensu* WILSON & GILLET, 1971 non LINNAEUS, 1758)

Chirimen-naruto-bora

- Type locality: off Tung Chiang, Taiwan, 20-50 m. (Possibly erroneous).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2; Taiwan.
- Habitat: subtidal to 50 m., rocks.

Family LAUBIERINIDAE WARÉN & BOUCHET, 1990

□ Genus *Akibumia* KURODA & HABE in KURODA, 1959-a

Type species: *Akibumia flexibilis* KURODA & HABE, 1959

(= *Akibumia* KURODA & HABE in KURODA, 1958 nom. nud.)

G1633 *A. flexibilis* KURODA & HABE in KURODA, 1959-a

Fukuro-newabora

- Type locality: 'Deep bottom off Tosa' (Tosa bay, southern Shikoku).
- Distribution: southern Shikoku, Kii peninsula (off Owase, 200-300 m.); Tanzania.

G1634 *A. orientalis* (SCHEPMAN, 1909 in 1908-13)

- Type locality: 'Siboga' sta. 211: 05° 40.7' S., 120° 45.5' E., 'Banda Sea. 1158 m. Coarse grey mud'.
- Distribution: 'Albatross', sta. 4919, (west off Yakushima, Kagoshima prefecture, 440 fms), off Amami Ōshima (946-957 m. TSUCHIDA, 1993); off Sydney, Australia; Three Kings Rise, New Zealand (WARÉN & BOUCHET, 1990).
- Original genus: *Trichotropis*.

Superfamily CARINARIOIDEA BLAINVILLE, 1818

Family ATLANTIDAE RANG, 1829

□ Genus *Atlanta* LESUEUR, 1817

Type species: *Atlanta peroni* LESUEUR, 1817  
 (= *Steira* ESCHSCHOLTZ, 1825; *Atlanta* D'ORBIGNY, 1834; *Atlantidea* PILSBRY, 1922)

G1635 *A. peroni* LESUEUR, 1817

(= *A. peronii* auct.)

Kuchikire-ukigai

- Distribution: surface of warm seas worldwide.

G1636 *A. turriculata* D'ORBIGNY, 1850

Tōdaka-kuchikire-ukigai

- Type locality: 'le grand ocean austral' ('great southern ocean' - southern Pacific).
- Distribution: surface zone, temperate Indo-Pacific.

G1637 *A. fusca* SOULEYET in EYDOUX & SOULEYET, 1852

(= *A. brunnea* ABBOTT, 1974)

Kusumi-kuchikire-ukigai

- Type locality: none designated.
- Distribution: surface of temperate and tropical seas worldwide.

G1638 *A. helicinoides* SOULEYET in EYDOUX & SOULEYET, 1852

Maimai-ukigai

- Distribution: surface of temperate and tropical seas worldwide.

G1639 *A. inflata* SOULEYET in EYDOUX & SOULEYET, 1852

Nakadaka-kuchikire-ukigai

- Distribution: surface of temperate and tropical seas worldwide.

G1640 *A. inclinata* SOULEYET in EYDOUX & SOULEYET, 1852

(= *A. affinis* TESCH, 1906)

Nejire-kuchikire-ukigai

- Distribution: surface of temperate seas worldwide.

G1641 *A. lesueuri* SOULEYET in EYDOUX & SOULEYET, 1852

(= *A. oligogyra* TESCH, 1906; *A. oligogyra sensu* KURODA & HABE, 1952-a)

Murasaki-kuchikire-ukigai

- Type locality: Atlantic ocean.
- Distribution: surface of temperate seas worldwide.

G1642 *A. gaudichaudi* SOULEYET in EYDOUX & SOULEYET, 1852

Usu-hira-kuchikire-ukigai

- Type locality: Pacific ocean.
- Distribution: surface of warm seas worldwide.

G1643 *A. rosea* SOULEYET in EYDOUX & SOULEYET, 1852

Murasaki-ukigai

- Type locality: Atlantic ocean.
- Distribution: surface of warm seas worldwide.

G1644 *A. pacifica* TOKIOKA, 1960

Taiyō-ukigai

- Type locality: Pacific Ocean.
- Distribution: surface zone, temperate and tropical Pacific.

□ Genus *Oxygyrus* BENSON, 1835

Type species: *Oxygyrus inflatus* BENSON, 1835

(= *Helicophlegma* D'ORBIGNY, 1835; *Brownia* D'ORBIGNY, 1841; *Ladas* CANTRAINE, 1841)

G1645 *O. keraudrenii* (LESUEUR, 1817)

(= *O. rangi* SOULEYET, 1852; *O. keraudreni* auct.)

Hire-ukigai

- Type locality: Pacific.
- Distribution: surface of temperate and tropical seas worldwide.
- Original genus: *Atlanta*.

Family CARINARIIDAE BLAINVILLE, 1818

□ Genus *Carinaria* LAMARCK, 1801

Type species: *Patella cristata* LINNAEUS, 1767

(= *Monophora* QUOY & GAIMARD, 1824; *Timoriëna* QUOY & GAIMARD, 1824; *Tithyonia* CAVOLINI in TIBERI, 1880)

G1646 *C. cristata* (LINNAEUS, 1767)

(= *C. sp. sensu* S. HIRASE, 1934)

Zō-kurage (= *Karinaria*)

- Type locality: none designated.
- Distribution: surface zone of temperate and tropical Indo-Pacific.

- Original genus: *Patella*.

G1647 *C. lamarckii* PÉRON & LESUEUR, 1810

(= *C. australis* QUOY & GAIMARD, 1833)

Ramaruku-zō-kurage

- Type locality: Le Havre, northern France.
- Distribution: surface of temperate and tropical seas worldwide.

G1648 *C. lamarcki challengerii* BONNEVIE, 1920

Charenjā-zō-kurage

- Distribution: surface of temperate and tropical seas worldwide.

G1649 *C. galea* BENSON, 1835

Kabuto-zō-kurage

- Type locality: 'in *Oceano Indico*' (Indian Ocean).
- Distribution: surface zone of temperate and tropical Indo-Pacific.

G1650 *C. cithara cithara* BENSON, 1835

Koto-zō-kurage

- Type locality: 'in *Oceano Indico*' (Indian Ocean).
- Distribution: surface zone of tropical Indo-Pacific.

G1651 *C. cithara procumbens* TESCH, 1906

Hime-koto-zō-kurage

- Distribution: surface zone, tropical Indo-Pacific.

G1652 *C. japonica* OKUTANI, 1955-a

(= *C. latidens* DALL, 1919 *nom. dub.*)

Hime-zō-kurage

- Type locality: 20 miles off Cape Ō-arai, Ibaraki prefecture, northern Honshū: 36° 21' N., 141° 00' E.
- Distribution: surface zones at confluence points of Kuroshio and Oyashio currents, Pacific Ocean off Japan.

□ Genus *Cardiapoda* D'ORBIGNY, 1835

Type species: *Carinaria placenta* LESSON, 1831

(= *Carinaroida* EYDOUX & SOULEYET, 1852)

G1653 *Cd. placenta* (LESSON, 1831 in 1826-32)

Kaede-zō-kurage

- Type locality: 'les mers de la Nouvelle-Guinée' (seas of New Guinea).
- Distribution: surface of temperate seas worldwide.
- Original genus: *Carinaria*.

G1654 *Cd. richardi* VAYSSIÉRE, 1905

Muchio-zō-kurage

- Distribution: surface of temperate seas worldwide.

□ Genus *Pterosoma* LESSON, 1831

Type species: *Pterosoma planum* LESSON, 1831

(= *Aloysia* ISSEL, 1906)

G1655 *Pt. planum* LESSON, 1831

Konoha-zō-kurage

- Type locality: 'les mers chaudes de l'équator, entre les



Moluques et la Nouvelle-Guinée' (Warm equatorial seas between the Moluccas (Maluku, Indonesia) and New Guinea).

• Distribution: surface zones of temperate and tropical Indo-Pacific.

Superfamily **TRIPHOROIDEA GRAY, 1847**

Family **TRIPHORIDAE GRAY, 1847**

(Refs.: Kosuge, 1961-a; 1961-b; 1962; 1963; Marshall, 1983)

Subfamily **TRIPHORINAE GRAY, 1847**

□ Genus ***Viriola* JOUSSEAUME, 1884-b**

Type species: *Viriola bayani* JOUSSEAUME, 1884 (o. d.) (= *Sinistroseila* OLIVER, 1915; *Solosinister* LASERON, 1954)

Subgenus ***Viriola s. str.***

G1656 ***V. (V.) cancellata* (HINDS, 1843-h)**

(= *Orbitophora iredalei* LASERON, 1958)

Shibori-maki-kiri-ore

- Type locality: 'Straits of Malacca; in 20 fathoms' (Indonesia).
- Distribution: Hachijō island and southwards, P6-P5, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific, Australia.
- Habitat: intertidal to 30 m., sand and gravel.
- Original genus: *Triphoris* (*Ino*).

G1657 ***V. (V.) tricincta* (DUNKER, 1882)**

(= *Triforis cingulata* DUNKER, 1860 non A. ADAMS, 1852; *T. dunkeri* JOUSSEAUME, 1884-b; *V. corrugata* (HINDS) *sensu* HABE, 1961-a; HABE & KOSUGE, 1966) Kiri-ore-gai

- Type locality: '*Portus De-shimae*' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Triforis*.

G1658 ***V. (V.) corrugata* (HINDS, 1843-h)**

(= *Triforis interfilatus* GOULD, 1861)

Shiwa-kiri-ore

- Type locality: 'New Guinea; dredged from 23 fathoms, among fine gravel. Straits of Malacca; from 18 to 23 fathoms' (Indonesia).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Triphoris* (*Ino*).

G1659 ***V. (V.) pagoda* (HINDS, 1843-b)**

Oneji-ore

- Type locality: Baclayon, Bohol island, Philippines.
- Distribution: Bōsō peninsula and southwards, P11,

Ogasawara islands (Iōjima KOIZUMI, 1993), P7-P5, EC5, ECP4-ECP2, P2; Philippines, Hawaii.

- Habitat: intertidal to 20 m., coarse sand and stones among rubble.
- Original genus: *Triphoris* (*Ino*).

G1660 ***V. (V.) bilix* (HINDS, 1843-h)**

(= *Triforis flammulata* PEASE, 1859)

Oboro-kiri-ore

- Type locality: 'Straits of Malacca; dredged from a muddy bottom in 20 fathoms' (Indonesia).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, Indonesia (intertidal to 20 m., coarse sand and stones); Hawaii (60-100 m. KAY, 1979).
- Original genus: *Triphoris* (*Ino*).

G1661 ***V. (V.) gracilentum* (MIGHELS, 1845)**

(= *Triforis marmorata* PEASE, *MS sensu* MARTENS & LANGKAVEL, 1871 *nom. nud.*; *V. tibialis* JOUSSEAUME, 1884; *Triphora granti* BAKER & SPICER, 1935; *V. kanamarui* KOSUGE, 1961; *V. elegans sensu* HABE & KOSUGE, 1966)

Madara-kiri-ore

- Type locality: Oahu, Hawaii.
- Distribution: Izu islands and southwards, P11, Ogasawara islands (Chichijima; Hahajima; Anijima FUKUDA, 1993), P6-P5, ECP4-ECP2, P2; Philippines, Mauritius to Hawaii.
- Habitat: intertidal to 20 m., under rocks.
- Original genus: *Cerithium*.

G1662 ***V. (V.) incisa* (PEASE, 1860-b)**

(= *Euthymella elongata* LASERON, 1958)

• Type locality: Sandwich islands (Hawaii).

- Distribution: Hachijō island and southwards, P11, Ogasawara islands (Hahajima FUKUDA, 1993), P6-P5, ECP4-ECP2, P2; Philippines, Indo-western Pacific, Cocos islands to Hawaii, Polynesia.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Triforis*.

G1663 ***V. (V.) connata* (MONTROUZIER, 1862)**

Tōmaki-kiri-ore

- Type locality: New Caledonia.
- Distribution: Hachijō island and southwards, P11, Ogasawara islands (Hahajima FUKUDA, 1993), P6-P5, ECP4-ECP2; New Caledonia.
- Habitat: intertidal to 20 m., rubble.
- Original genus: *Triforis*.

G1664 ***V. (V.) intergranosa* (HERVIER, 1897)**

Fukabori-kiri-ore

- Type locality: New Caledonia.
- Distribution: Ogasawara islands (Hahajima FUKUDA, 1993) and southwards, P11, eastern Kii peninsula (off Kii-

Nagashima, Mie prefecture), Amami Ōshima and southwards, ECP3-ECP2, P2; Philippines, New Caledonia.

- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Trifora*.

Subgenus ***Orbitophora* LASERON, 1958**

Type species: *Orbitophora iredalei* LASERON, 1958 (o. d.)

G1665 *V. (O.) elegans* (HINDS, 1843-h)

Kasuri-kiri-ore

- Type locality: 'Straits of Malacca; from 20 fathoms, mud' (Indonesia).
- Distribution: Amami Ōshima and southwards, ECP3-ECP2, P2; Philippines, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., rocks and rubble.
- Original genus: *Triphoris (Ino)*.

G1666 *V. (O.) intercalcaris* (GOULD, 1861 in 1859-61)

Juzudama-kiri-ore

- Type locality: 'China Sea'.
- Distribution: Amami Ōshima and southwards, ECP3-ECP2.
- Habitat: intertidal to 20 m., rocks and rubble.
- Original genus: *Triforis*.

□ Genus ***Hypotriphora* COTTON & GODFREY, 1931**

Type species: *Triphora subula* VERCO, 1909 (o. d.)

G1667 *H. sagamiensis* KURODA & HABE in KURODA *et al.*, 1971

Sagami-kiri-ore

- Type locality: Sagami bay, central Honshū.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, Ogasawara islands (Iōjima KOIZUMI, 1993).
- Habitat: 30-80 m., sand.

□ Genus ***Cautotriphora* LAWS, 1940**

Type species: *Cautotriphora simulans* LAWS, 1940

G1668 *C. loyaltiensis* (HERVIER, 1897)

(= *Inella loyaltensis (sic)* HERVIER *sensu* CERNOHORSKY, 1978)

- Type locality: Loyalty islands, New Caledonia.
- Distribution: Amami Ōshima (KURODA, 1928), Okinawa (KURODA, 1960); New Caledonia.
- Original genus: *Triforis*.

G1669 *C. pyramidalis* (ADAMS & REEVE, 1850 in 1848-50)

Togari-kiri-ore

- Type locality: 'China Sea'.
- Distribution: Izu peninsula and southwards, P11, Ogasawara islands, P6-P5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to 20 m., rocks and rubble.
- Original genus: *Triphoris*.

G1670 *C. hervieri* (KOSUGE, 1962)

(= *Triphora loyaltiensis sensu* KURODA, 1960 *non* HERVIER, 1897)

Heritori-murasaki-kiri-ore

- Type locality: Ankyaba, Kakeroma island (Amami islands).
- Distribution: Izu peninsula and southwards, Hachijō island, P6-P5, EC5, ECP4-ECP2, P2; Philippines to Fiji.
- Habitat: intertidal to 20 m., rocks and rubble.
- Original genus: *Notosinister*.

□ Genus ***Inella* BAYLE, 1879**

Type species: *Triphoris (Ino) gigas* HINDS, 1843 (s. d. JOUSSEAUME, 1884)

(= *Ino* HINDS, 1843 *non* SAMSUELLA, 1817)

G1671 *I. gigas* (HINDS, 1843-h)

(= *I. multitecta* KOSUGE, 1962)

Kasane-kiri-ore

- Type locality: 'New Guinea; dredged from a muddy bottom at 18 fathoms'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Wakasa bay, J2-J1), EC5, ECP4-ECP2; Indonesia to northern Australia.
- Habitat: 10-100 m., sand.
- Original genus: *Triphoris (Ino)*.

G1672 *I. verrucosa* (ADAMS & REEVE, 1850 in 1848-50)

Amime-kiri-ore

- Type locality: 'China Sea'.
- Distribution: Kii peninsula and southwards, P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2, P2; Philippines to Fiji.
- Habitat: intertidal to 20 m., rocks and rubble.
- Original genus: *Triphoris*.

G1673 *I. maxillaris* (HINDS, 1843-h)

Sumire-hari-ore

- Type locality: 'Straits of Malacca; dredged from 18 to 23 fathoms' (Indonesia).
- Distribution: Amami Ōshima and southwards, ECP3-ECP2, P2; Philippines, tropical Indo-Pacific.
- Habitat: subtidal to 20 m., rocks and rubble.
- Original genus: *Triphoris (Ino)*.

G1674 *I. lanceolata* KOSUGE, 1962

Yarinoho-kiri-ore

- Type locality: Ankyaba, Kakeroma island (Amami islands).
- Distribution: southern Kyūshū and southwards, ECP4-ECP2.
- Habitat: intertidal to 20 m., rocks and rubble.

G1675 *I. spicula* KOSUGE, 1962

Cha-iro-hari-ore

- Type locality: Ankyaba, Kakeroma island (Amami islands).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2.
- Habitat: intertidal to 20 m., rocks and rubble.

G1676 *I. granicostata* KOSUGE, 1962

Tsuzure-kiri-ore

- Type locality: Ankyaba, Kakeroma island (Amami islands).
- Distribution: Amami islands and southwards, ECP3-ECP2.
- Habitat: intertidal to 20 m., rocks and rubble.

G1677 *I. acicula* KOSUGE, 1962

Murasaki-kiri-ore

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2.
- Habitat: intertidal to 20 m., rocks and rubble.

G1678 *I. subfenestrata* KOSUGE, 1962

Ko-ushi-kiri-ore

- Type locality: Ankyaba, Kakeroma island (Amami islands).
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2.
- Habitat: intertidal to 20 m., rocks and rubble.

G1679 *I. chrysalis* KOSUGE, 1963

(= *I. crysallis* sensu HABE & KOSUGE, 1966 err.)

Sanagi-kiri-ore

- Type locality: Ankyaba, Kakeroma island (Amami islands).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines.
- Habitat: intertidal to 20 m., sand.

G1680 *I. aculeata* KOSUGE, 1962

Izu-kiri-ore

- Type locality: Minato, Minami-Izu town (Izu peninsula, central Honshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5.
- Habitat: intertidal to 20 m., sand.

G1681 *I. asperrima* (HINDS, 1843-h)

Hari-ore

- Type locality: 'New Guinea; dredged from a muddy bottom in 8 fathoms'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific, Papua New Guinea.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Triphoris* (*Ino*).

G1682 *I. japonica* KURODA & KOSUGE, 1963

(= *Triphoris fusca* sensu IWAKAWA, 1919; KURODA, 1928; KURODA & HABE, 1952-a all *non* DUNKER, 1860; *Cautotriphora alveolata* sensu HABE & KOSUGE, 1966)

Arare-kiri-ore

- Type locality: Shirahama, Shimoda town, Izu peninsula, central Honshū.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5.
- Habitat: intertidal to 100 m., sand.

□ Genus *Liniphora* LASERON, 1958

Type species: *Liniphora restis* LASERON, 1958 (o. d.)

G1683 *L. restis* LASERON, 1958

Hari-ore-modoki

- Type locality: Christmas Island, Indian Ocean.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to 20 m., sand.

□ Genus *Euthymella* THIELE, 1929

Type species: *Triphora (Euthymella) regalis*

JOUSSEAUME, 1884 (o. d.)

(= *Euthymia* JOUSSEAUME, 1884 *non* STÅL, 1876; *Torresophore* LASERON, 1958)

G1684 *E. clathrata* (GOULD, 1861 in 1859-61)

(= *E. lutea* KOSUGE, 1962)

Kogane-tsumugata-kiri-ore

- Type locality: 'China Sea'.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2.
- Habitat: intertidal, rocks and rubble.
- Original genus: '*Triformis*', *err. pro -foris*.

G1685 *E. isaotakii* KOSUGE, 1962

Taki-tsumugata-kiri-ore

- Type locality: Ankyaba, Kakeroma island (Amami islands).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2; Hawaii.
- Habitat: intertidal to 20 m., rocks and rubble.

G1686 *E. leucocephala* KOSUGE, 1963

Okina-tsumugata-kiri-ore

- Type locality: Ankyaba, Kakeroma island (Amami islands).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2.
- Habitat: intertidal to 20 m., rocks and rubble.

□ Genus *Isotriphora* COTTON & GODFREY, 1931

Type species: *Triphora tasmanica* WOODS, 1876 (o. d.)

G1687 *I. kurodai* KOSUGE, 1962

Konbō-kiri-ore

- Type locality: Shirahama, Shimoda town, Izu peninsula, central Honshū.

- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands (Chichijima FUKUDA, 1993), P7-P5, Japan Sea (northern Yamaguchi prefecture), EC5, ECP4-ECP2.

- Habitat: intertidal to 35 m., rocks and rubble.

□ Genus *Mastonia* HINDS, 1843-h

Type species: *Triphora rubra* HINDS, 1843

G1688 *M. rubra* (HINDS, 1843-h)

Murasaki-harabuto-kiri-ore

- Type locality: 'Straits of Malacca; in 20 fathoms' (Indonesia).

- Distribution: Hachijō island and southwards, P11, Ogasawara islands (Chichijima; Hahajima; Minamijima FUKUDA, 1993), P6-P5, EC5, ECP4-ECP2; Indo-Pacific to Australia.

- Habitat: intertidal to 20 m., under rocks.

- Original genus: *Triphoris* (*Mastonia*).

G1689 *M. monilifera* (HINDS, 1843-h)

Mike-iro-kiri-ore

- Type locality: 'Straits of Malacca; in 18 to 23 fathoms, mud' (Indonesia).

- Distribution: Ogasawara islands (FUKUDA, 1995), Amami Ōshima and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific.

- Habitat: intertidal to 20 m., rocks and rubble.

- Original genus: *Triforis* (*Mastonia*).

G1690 *M. limberti* (HERVIER, 1897)

(= *Triphora loyaltiensis sensu* KURODA, 1928; *T. limberti sensu* KURODA, 1941; KURODA & HABE, 1952-a; KURODA, 1960; *M. limberti sensu* KOSUGE, 1961; HABE & KOSUGE, 1966; *M. monilifera sensu* FUKUDA, 1993 *non* HINDS, 1843-h)

Mike-iro-harabuto-kiri-ore

- Type locality: Lifu, Loyalty islands, New Caledonia.

- Distribution: Ogasawara islands (Chichijima FUKUDA, 1993) and southwards, P11, Kii peninsula, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific to Australia.

- Habitat: intertidal to 20 m., rocks and rubble.

- Original genus: *Triforis*.

G1691 *M. ustulata* (HERVIER, 1897)

(= *Triforis torquatus* HEDLEY, 1899)

Kubimaki-kiri-ore

- Type locality: Lifu, Loyalty islands, New Caledonia.

- Distribution: Ogasawara islands (Hahajima FUKUDA, 1993) and southwards, P11, Kii peninsula, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific to Australia.

- Habitat: intertidal to 20 m., rocks and rubble.

- Original genus: *Triforis*.

G1692 *M. papillata* (HERVIER, 1897)

Shiro-ibo-kiri-ore

- Type locality: Lifu, Loyalty islands, New Caledonia.

- Distribution: Ogasawara islands (Hahajima FUKUDA, 1993) and southwards, P11, Kii peninsula, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific to Australia.

- Habitat: intertidal to 20 m., rocks and rubble.

- Original genus: *Triforis*.

G1693 *M. cnodax* JOUSSEAUME, 1884-b

(= *Coriophora claviculta* LASERON, 1958)

Tōkibi-kiri-ore

- Type locality: 'La Nouvelle-Calédonie' (New Caledonia).

- Distribution: Ogasawara islands (Iōjima KOIZUMI, 1993; Chichijima FUKUDA, 1993), P11, southern Kyūshū, ECP4-ECP2, P2; Philippines, Indo-Pacific to Australia.

- Habitat: intertidal to 20 m., rocks and rubble.

- Original genus: *Mastoniaeformis*.

G1694 *M. peanites* (JOUSSEAUME, 1898-b)

(= *M. squamosa* KOSUGE, 1962)

Samehada-kiri-ore

- Type locality: 'Djibouti (Gulf of Aden), Djeddah (Saudi Arabia), Masawah (Eritrea)'

- Distribution: Ogasawara islands (Chichijima; Hahajima FUKUDA, 1993) and southwards, P11, Kii peninsula, P5, EC5, ECP4-ECP2, P2; Philippines, western Pacific to Australia, Indian Ocean, Red Sea.

- Habitat: intertidal to 20 m., rocks and rubble.

- Original genus: *Mastoniaeformis*.

G1695 *M. squalida* KOSUGE, 1962

Tokusa-kiri-ore

- Type locality: Ankyaba, Kakeroma island (Amami islands).

- Distribution: Ogasawara islands (Iōjima KOIZUMI, 1993; Hahajima FUKUDA, 1993) and southwards, P11, Amami islands.

- Habitat: intertidal to 20 m., rocks and rubble.

G1696 *M. aegle* JOUSSEAUME, 1884-b

Akebono-kiri-ore

- Type locality: 'Nouvelle-Calédonie' (New Caledonia).

- Distribution: Kii peninsula and southwards, P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2, P2; Philippines, tropical Pacific.

- Habitat: intertidal to 20 m., rocks and rubble.

- Original genus: *Mastoniaeformis*.

G1697 *M. cingulifera* (PEASE, 1860-b)

Hoso-suji-mitsukuchi-kiri-ore (= Somewake-kiri-ore)

- Type locality: Sandwich islands (Hawaii).

- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific, Mauritius to Marshall islands, Hawaii.

- Habitat: intertidal to 20 m., rocks and rubble; occasionally in sediments from around 60 m.
- Original genus: *Triforis*.

G1698 *M. quadrimaculata* (HERVIER, 1897)

Susoguro-kiri-ore

- Type locality: Lifu, Loyalty islands, New Caledonia.
- Distribution: southern Kyūshū and southwards, ECP4-ECP2, P2; Philippines, western Pacific.
- Habitat: intertidal to 20 m., rocks and rubble.
- Original genus: *Triforis*.

G1699 *M. limosa* JOUSSEAUME, 1884-b

Kuri-iro-kiri-ore

- Type locality: 'Nouvelle-Calédonie' (New Caledonia).
- Distribution: Tateyama bay (central Honshū TAMURA & OKUTANI, 1989), southern Kyūshū and southwards, ECP4-ECP2, P2; Philippines, western Pacific.
- Habitat: intertidal to 20 m., rocks and rubble.
- Original genus: *Mastoniaformis*.

G1700 *M. xystica* (JOUSSEAUME, 1884-b)

(= *Notosinister grandiosa* LASERON, 1954; *N. alveolatus sensu* KOSUGE, 1963)

Kuro-kuri-iro-kiri-ore

- Type locality: 'Nouvelle-Calédonie' (New Caledonia).
- Distribution: Sagami bay and southwards, P11, Ogasawara islands (Chichijima; Hahajima FUKUDA, 1993), P6-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2.
- Habitat: intertidal to 20 m., rocks and rubble.
- Original genus: *Mastoniaformis*.

□ Genus *Mesophora* LASERON, 1958

Type species: *Mesophora bowenensis* LASERON, 1958 (o. d.); = *Triforis fusca* DUNKER, 1860)

G1701 *Mesophora fusca* (DUNKER, 1860)

(= *M. bowenensis* LASERON, 1958)

Satsuma-kiri-ore

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: Suruga bay and southwards, P6-P5, Seto inland sea (Ōbatake-seto, Yamaguchi prefecture), Kagoshima bay; Australia.
- Habitat: intertidal, coarse sand and stones.
- Original genus: *Triforis*.

□ Genus *Opimaphora* LASERON, 1958

Type species: *Opimaphora sarcira* LASERON, 1958 (o. d.)

G1702 *O. tritacea* (PEASE, 1860-d)

(= *Triphoris crassula* MARTENS, 1880; *O. tritacea sensu* FUKUDA, 1993)

Nezumi-kiri-ore

- Type locality: Hawaii.

- Distribution: Sagami bay and southwards, P11, Ogasawara islands (Hahajima FUKUDA, 1993), P6-P5, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific, Hawaii.

- Habitat: intertidal to 20 m., rocks and rubble.

- Original genus: *Triphoris*.

□ Genus *Litharium* DALL, 1924

Type species: *Triphora (Litharium) oceanida* DALL, 1924 (o. d.)

G1703 *L. oceanida* (DALL, 1924)

Megami-kiri-ore

- Type locality: 'Hawaiian Islands'.
- Distribution: southern Shikoku and southwards, P5, ECP4-ECP2, P2; Hawaii.
- Habitat: shallow water to 10 m., under rocks.
- Original genus: *Triphora (Litharium)*.

G1704 *L. bilineata* (KOSUGE, 1962)

Futa-suji-kiri-ore

- Type locality: Ankyaba, Kakeroma island (Amami islands).
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2.
- Habitat: intertidal to 20 m., rocks and rubble.
- Original genus: *Mastonia*.

□ Genus *Monophorus* GRILLO, 1877

Type species: *Trochus perversus* LINNAEUS, 1758 (mt.) (= *Biforina* BUCQUOY *et al.*, 1884)

G1705 *M. atrata* (KOSUGE, 1962)

Shiro-eri-kiri-ore

- Type locality: Ankyaba, Kakeroma island (Amami islands).
- Distribution: Ogasawara islands (Hahajima FUKUDA, 1993) and southwards, P11, Kii peninsula, P5, EC5, ECP4-ECP2.
- Habitat: intertidal to 20 m., rocks and rubble.
- Original genus: *Notosinister*.

□ Genus *Triphora* BLAINVILLE, 1828

Type species: *Triphora gemmatum* BLAINVILLE, 1828 (mt.)

(= *Tristoma* DESHAYES in MENKE, 1830; *Triphoria* DESHAYES, 1832)

G1706 *T. iniqua* (JOUSSEAUME, 1898-b)

(= *Mesophora sardonix* LASERON, 1958; *Notosinister kawamura* KOSUGE, 1962)

Hosoyaka-kiri-ore

- Type locality: 'Djibouti (Gulf of Aden) et Nouvelle Calédonie' (New Caledonia).
- Distribution: Kii peninsula (Cape Shio) and southwards,

P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2; western Pacific, Indian Ocean, Red Sea.  
 • Habitat: intertidal to 20 m., rocks and rubble.  
 • Original genus: *Mastonia*.

G1707 *T. millepunctata* (KOSUGE, 1962)

Cha-madara-kiri-ore  
 • Type locality: Ankyaba, Kakeroma island (Amami islands).  
 • Distribution: Sagami bay and southwards, P6-P5, EC5, ECP4-ECP2.  
 • Habitat: intertidal to 80 m., sand.  
 • Original genus: *Notosinister*.

G1708 *T. monacha* (HERVIER, 1897)

Bikumi-kiri-ore  
 • Type locality: Lifu, Loyalty islands, New Caledonia.  
 • Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, tropical Pacific, Australia.  
 • Habitat: intertidal to 20 m., rocks and rubble.  
 • Original genus: *Triforis*.

G1709 *T. tristomus* (BLAINVILLE, 1824 in 1816-30)

Tensuji-kiri-ore  
 • Type locality: Australia.  
 • Distribution: Kii peninsula (Cape Shio) and southwards, P5, ECP4-ECP2, P2; tropical Pacific, Australia.  
 • Habitat: intertidal to 20 m., rocks and rubble.  
 • Original genus: *Cerithium*.

G1710 *T. alveolata* (ADAMS & REEVE, 1850 in 1848-50)

Usucha-kiri-ore  
 • Type locality: 'China Sea'.  
 • Distribution: Bōsō peninsula and southwards, P7-P5, EC5; China.  
 • Habitat: intertidal to 20 m., sand and gravel.  
 • Original genus: *Triphoris*.

G1711 *T. conspersa* (E. A. SMITH, 1875)

(= *Triphoris purpuratus* PILSBRY, 1895; *Triphoris otsuensis* YOKOYAMA, 1922 non YOKOYAMA, 1920; *Triphora sematensis* ŌYAMA in Is. TAKI & ŌYAMA, 1954)  
 Safuran-kiri-ore (= Kuro-kiri-ore)  
 • Type locality: 'Cape Sima' (Shima peninsula, Mie prefecture).  
 • Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5.  
 • Habitat: intertidal to 50 m., gravel.  
 • Original genus: *Triphoris*.

G1712 *T. turricula* (HERVIER, 1897)

Komon-kiri-ore  
 • Type locality: Lifu, Loyalty islands, New Caledonia.  
 • Distribution: Kii peninsula and southwards, P5, EC5,

ECP4-ECP2, P2; Philippines, tropical Pacific.  
 • Habitat: intertidal to 20 m., rocks and gravel.  
 • Original genus: *Triforis*.

G1713 *T. thetis* (HEDLEY, 1899-a)

Kogecha-kiri-ore  
 • Type locality: Funafuti Atoll, Ellice islands (Tuvalu, Polynesia).  
 • Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, tropical Pacific.  
 • Habitat: intertidal to 20 m., rocks and gravel.  
 • Original genus: *Triforis*.

G1714 *T. multigyrate* (YOKOYAMA, 1922)

Kazumaki-kiri-ore  
 • Type locality: Shitō, Ichihara City, Chiba prefecture, central Honshū (fossil).  
 • Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2.  
 • Habitat: intertidal to 20 m., gravel.  
 • Original genus: *Triforis*.

G1715 *T. otsuensis* (YOKOYAMA, 1920)

Hoso-arare-kiri-ore  
 • Type locality: Otsu, Yokosuka City, near Tōkyō (fossil).  
 • Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Sado island, J3-J1), EC5, Ogasawara islands (Iōjima KOIZUMI, 1993).  
 • Habitat: intertidal to 80m, sand and gravel.  
 • Original genus: *Triphoris*.

G1716 *T. coralina* (LASERON, 1958)

Sango-kiri-ore  
 • Type locality: Christmas island, Indian Ocean.  
 • Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, Ogasawara islands (Iōjima KOIZUMI, 1993); tropical Indo-Pacific to Hawaii.  
 • Habitat: intertidal to 100 m., coarse sand and stones.  
 • Original genus: *Opimaphora*.

G1717 *T. granulata* (ADAMS & REEVE, 1850 in 1848-50)

(= *Aclophora robusta* LASERON, 1958)  
 Iwakawa-arare-kiri-ore  
 • Type locality: 'China Sea'.  
 • Distribution: Kii peninsula and southwards, P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific.  
 • Habitat: intertidal to 20 m., gravel.  
 • Original genus: *Triphoris*.

G1718 *T. graphius* (KOSUGE, 1963)

Sekihitsu-kiri-ore  
 • Type locality: Ankyaba, Kakeroma island (Amami islands).  
 • Distribution: Amami islands and southwards, ECP3-

ECP2.

- Habitat: intertidal to 20 m., gravel.
- Original genus: *Notosinister*.

G1719 *T. rufotincta* (KOSUGE, 1963)

Fuchi-nui-kiri-ore

- Type locality: Ankyaba, Kakeroma island (Amami islands).
- Distribution: Amami islands and southwards, ECP3-ECP2.
- Habitat: intertidal to 20 m., gravel.
- Original genus: *Notosinister*.

G1720 *T. rufula* (WATSON, 1885 in 1885-86)

Horoyoi-kiri-ore

- Type locality: 'off Wednesday islands' (Cape York, northeastern Australia).
- Distribution: southern Kyūshū, ECP4-ECP2, P2; Philippines, tropical Pacific.
- Habitat: intertidal to 20 m., gravel.
- Original genus: *Triforis*.

G1721 *T. episcopalis* (HERVIER, 1897)

Ko-murasaki-kiri-ore

- Type locality: Lifu, Loyalty islands, New Caledonia.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, tropical Pacific.
- Habitat: intertidal to 20 m., rocks and rubble.
- Original genus: *Triforis*.

G1722 *T. lucidulus* (HERVIER, 1897)

Giyaman-kiri-ore

- Type locality: Lifu, Loyalty islands, New Caledonia.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, tropical Pacific.
- Habitat: intertidal to 20 m., gravel.
- Original genus: *Triforis*.

G1723 *T. tessellata* (KOSUGE, 1963)

Mozaiku-kiri-ore

- Type locality: Ankyaba, Kakeroma island (Amami islands).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Hawaii.
- Habitat: intertidal to 20 m., rocks and gravel.
- Original genus: *Notosinister*.

G1724 *T. testacea* (KOSUGE, 1963)

Renga-maki-kiri-ore

- Type locality: Ankyaba, Kakeroma island (Amami islands).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2.
- Habitat: intertidal to 20 m., gravel.
- Original genus: *Notosinister*.

G1725 *T. iwaotakii* (KOSUGE, 1963)

Sumire-fukure-kiri-ore

- Type locality: Ankyaba, Kakeroma island (Amami islands).
- Distribution: Ogasawara islands (Iōjima KOIZUMI, 1993) and southwards, P11, Amami islands, ECP3-ECP2, P2.
- Habitat: intertidal to 20 m., gravel.
- Original genus: *Notosinister*.

G1726 *T. nitida* (KOSUGE, 1963)

Migaki-kiri-ore

- Type locality: Ankyaba, Kakeroma island (Amami islands).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2.
- Habitat: intertidal to 20 m., gravel.
- Original genus: *Notosinister*.

G1727 *T. candefacta* (KOSUGE, 1963)

Shirayuki-kiri-ore

- Type locality: Ankyaba, Kakeroma island (Amami islands).
- Distribution: Ogasawara islands (Iōjima KOIZUMI, 1993) and southwards, P11, Amami islands, ECP3-ECP2, P2.
- Habitat: intertidal to 20 m., gravel.
- Original genus: *Notosinister*.

G1728 *T. confusa* (KOSUGE, 1963)

Magire-kiri-ore

- Type locality: southern Sagami bay, central Honshū.
- Distribution: Suruga bay and southwards, P6-P5, EC5, ECP4-ECP2, P2.
- Habitat: intertidal to 20 m., gravel.
- Original genus: *Notosinister*.

G1729 *T. exilis* (DUNKER, 1860)

Kuro-suji-kiri-ore

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: Kii peninsula and southwards, P5, Japan Sea (Oga peninsula, J3-J1), EC5.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Triforis*.

G1730 *T. cornuta* (HERVIER, 1898)

Tsuno-furi-kiri-ore

- Type locality: New Caledonia.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, tropical Pacific.
- Original genus: *Triforis*.

G1731 *T. blainvilli* (JOUSSEAUME, 1884-b)

Kuri-iro-harabuto-kiri-ore

- Type locality: 'Nouvelle-Calédonie' (New Caledonia).

- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Australia.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Inella*.

G1732 *T. pusillus* (KOSUGE, 1962)

Ko-tsubu-kiri-ore

- Type locality: Ankyaba, Kakeroma island (Amami islands).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2.
- Habitat: intertidal to 20 m., gravel.
- Original genus: *Notosinister*.

G1733 *T. undata* (KOSUGE, 1962)

Sazanami-kiri-ore

- Type locality: Ankyaba, Kakeroma island (Amami islands).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2 (Ryūkyū-shō bank).
- Habitat: intertidal to 20 m., gravel.
- Original genus: *Notosinister*.

G1734 *T. melantera* (HERVIER, 1898)

- Type locality: New Caledonia.
- Distribution: Okinawa islands (KURODA, 1960) and southwards, ECP2, P2; Philippines, tropical Pacific.
- Original genus: *Triforis*.

G1735 *T. gemmulata* (ADAMS & REEVE, 1850 in 1848-50)

- Type locality: 'China Sea'.
- Distribution: 'Pacific coast, 30° N.?' (KURODA & HABE, 1952-a).
- Original genus: *Triphoris*.

G1736 *T. suturalis* (ADAMS & REEVE, 1850 in 1848-50)

- Type locality: 'China Sea'.
- Distribution: 'Pacific coast, 14-29° N.' (KURODA & HABE, 1952-a).
- Original genus: *Triphoris*.

G1737 *T. calculiferus* (GOULD, 1861 in 1859-61)

- Type locality: 'Ryūkyū' (Okinawa islands).
- Distribution: Okinawa (KURODA, 1960)
- Original genus: *Triforis*.

G1738 *T. rufosutura* (LASERON, 1958)

- Type locality: Christmas island, Indian Ocean.
- Distribution: Amami Ōshima (Akagina, Kasari town) and southwards, Okinawa (Makiminato); type locality.
- Original genus: *Mesophora*.

□ Genus *Obesula* JOUSSEAUME, 1898-b

Type species: *Mastonia obesula* JOUSSEAUME, 1884 (o. d.)

G1739 *O. obesula* (JOUSSEAUME, 1884-b)

Fukure-kiri-ore

- Type locality: 'La Nouvelle-Calédonie' (New Caledonia).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, Australia.
- Habitat: intertidal to 20 m., rocks and rubble.
- Original genus: *Mastonia*.

□ Genus *Subulophora* LASERON, 1958

Type species: *Subulophora exporrecta* LASERON, 1958 (o. d.)

G1740 *S. rutilans* (HERVIER, 1897)

Nuri-tsuya-kiri-ore

- Type locality: Lifu, Loyalty islands, New Caledonia.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, entire Pacific, Australia.
- Habitat: intertidal to 20 m., gravel.
- Original genus: *Triforis*.

□ Genus *Bouchettriphora* MARSHALL, 1983

Type species: *Triphoris pallidus* PEASE, 1870 (o. d.)

G1741 *B. pallidus* (PEASE, 1870)

(= *Mesophora albomicra* LASERON, 1958)

Usu-iro-kiri-ore

- Type locality: Hawaii.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, tropical Pacific, Hawaii, Australia.
- Habitat: intertidal to 20 m., gravel.
- Original genus: *Triphoris*.

□ Genus *Cautor* FINLAY, 1926

Type species: *Triphora lutea* SUTER, 1908 (o. d.)

G1742 *C. hungerfordi* (SOWERBY III, 1914)

Nanban-kiri-ore

- Type locality: Hong Kong.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2, P2; Hong Kong.
- Habitat: intertidal to 20 m., gravel.
- Original genus: *Triphora*.

G1743 *C. marceda* (LASERON, 1958)

Nankai-kiri-ore

- Type locality: Michaelmas Cay, Great Barrier Reef, Australia.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; southwestern Pacific, Australia.
- Habitat: intertidal to 20 m., gravel.
- Original genus: *Coriophora*.

G1744 *C. tubularis* (LASERON, 1958)

Hoso-nankai-kiri-ore

- Type locality: Michaelmas Cay, Great Barrier Reef, Australia.



- Distribution: Amami islands and southwards, ECP3-ECP2, P2; southwestern Pacific, Australia.
- Habitat: intertidal to 20 m., gravel.
- Original genus: *Coriophora*.

G1745 *C. maculosus macmichaeli* KOSUGE, 1962

Chagusuri-kiri-ore

- Type locality: Ankyaba, Kakeroma island (Amami islands).
- Distribution: Tateyama bay (Bōsō peninsula TAMURA & OKUTANI, 1989) and southwards, P6-P5, EC5, ECP4-ECP2, P2.
- Habitat: intertidal to 20 m., gravel.

G1746 *C. cybaeus* KOSUGE, 1963

Tokkuri-kiri-ore

- Type locality: Ankyaba, Kakeroma island (Amami islands).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2.
- Habitat: intertidal to 20 m., gravel.

G1747 *C. puniceus* KOSUGE, 1963

Azuki-iro-kiri-ore

- Type locality: Ankyaba, Kakeroma island (Amami islands).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2.
- Habitat: intertidal to 20 m., gravel.

G1748 *C. pygmaeus* KOSUGE, 1963

Kobito-kiri-ore

- Type locality: Ankyaba, Kakeroma island (Amami islands).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; southwestern Pacific.
- Habitat: intertidal to 20 m., gravel.

G1749 *C. levukensis* (WATSON, 1881 in 1879-83)

(= *Triphora eupunctata* SOWERBY, 1907; *Coriophora monovittata* LASERON, 1958)

Hito-suji-kiri-ore

- Type locality: Levuka, Fiji islands.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Fiji, Australia.
- Habitat: intertidal to 20 m., gravel.
- Original genus: *Triphoris*.

□ Genus *Sychar* HINDS, 1843-h

Type species: *Sychar vitrea* HINDS, 1843

G1750 *S. ryosukei* KOSUGE, 1963

Kawari-bori-kiri-ore

- Type locality: Ankyaba, Kakeroma island (Amami islands).
- Distribution: southern Kyūshū and southwards, ECP4-

ECP2.

- Habitat: intertidal to 20 m., gravel.

□ Genus *Mastoniaeformis* JOUSSEAUME, 1884-b

Type species: *Mastoniaeformis chaperi* JOUSSEAUME, 1884 (o. d.)

(= *Epiforis* LASERON, 1958; *Contraforis* LASERON, 1958)

G1751 *M. projecta* (LASERON, 1958)

(= *Coriophora progressa* LASERON, 1958)

Chibi-mitsukuchi-kiri-ore

- Type locality: Christmas island, Indian Ocean.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; tropical Indo-Pacific.
- Habitat: intertidal to 20 m., gravel.
- Original genus: *Nanaphora*.

□ Genus *Iniforis* JOUSSEAUME, 1884-b

Type species: *Iniforis malvaceus* JOUSSEAUME, 1884 (o. d.)

G1752 *I. lifuana* (HERVIER, 1897)

Kohaku-mitsukuchi-kiri-ore

- Type locality: Lifu, Loyalty islands, New Caledonia.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Triphoris*.

G1753 *I. speciosa* (ADAMS & REEVE, 1850 in 1848-50)

Beni-obi-mitsukuchi-kiri-ore

- Type locality: 'China Sea'.
- Distribution: Kyūshū and southwards, EC5, ECP4-ECP2, P2, Ogasawara islands (Hahajima FUKUDA, 1993); Indo-Pacific.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Triphoris*.

G1754 *I. formosulus* (HERVIER, 1897)

Yokomado-kiri-ore (= Yosuji-kiri-ore)

- Type locality: Lifu, Loyalty islands, New Caledonia.
- Distribution: southern Kyūshū and southwards, ECP4-ECP2, P2, Ogasawara islands (Hahajima FUKUDA, 1993); Indo-Pacific.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Triphoris*.

G1755 *I. poecilus* (HERVIER, 1897)

Murakumo-mitsukuchi-kiri-ore

- Type locality: Lifu, Loyalty islands, New Caledonia.
- Distribution: Kii peninsula (Cape Shio) and southwards, P5, EC5, ECP4-ECP2, P2; New Caledonia.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Triphoris*.

G1756 *I. jousseaumei* (HERVIER, 1897)

- Shirakumo-mitsukuchi-kiri-ore (= Shirakumo-kiri-ore)
- Type locality: Lifu, Loyalty islands, New Caledonia.
  - Distribution: Ogasawara islands (Hahajima FUKUDA, 1993) and southwards, P11, Kii peninsula (Cape Shio), P5, ECP4-ECP2, P2; tropical Indo-Pacific.
  - Habitat: intertidal to 20 m., gravel.
  - Original genus: *Triphoris*.

G1757 *I. concors* (HINDS, 1843-h)

(= *Triphoris fucata* PEASE, 1860)

Shiro-kiri-ore

- Type locality: 'Straits of Malacca; in 18 fathoms' (Indonesia).
- Distribution: Ogasawara islands (FUKUDA, 1995), Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific, Hawaii.
- Habitat: intertidal to 50 m., coarse sand and stones.
- Original genus: *Triphoris* (*Ino*).

G1758 *I. bellula* (KOSUGE, 1961-a)

Hachimaki-mitsukuchi-kiri-ore

- Type locality: Ankyaba, Kakeroma island (Amami islands).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2.
- Habitat: intertidal to 20 m., gravel.
- Original genus: *Triphora* (*Iniforis*).

G1759 *I. albogranosa* (KOSUGE, 1961-a)

Shiraboshi-mitsukuchi-kiri-ore

- Type locality: Ankyaba, Kakeroma island (Amami islands).
- Distribution: Ogasawara islands (Hahajima FUKUDA, 1993) and southwards, Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2.
- Habitat: intertidal to 20 m., gravel.
- Original genus: *Triphora* (*Iniforis*).

G1760 *I. fusiformis* (KOSUGE, 1961-a)

Fuji-iro-mitsukuchi-kiri-ore

- Type locality: Ankyaba, Kakeroma island (Amami islands).
- Distribution: Ogasawara islands (Iōjima; Hahajima FUKUDA, 1993) and southwards, Kii peninsula (Cape Shio) and southwards, P5, ECP4-ECP2, P2.
- Habitat: intertidal to 20 m., gravel.
- Original genus: *Triphora* (*Iniforis*).

G1761 *I. ikukoa* (KOSUGE, 1963)

Kanetsuke-kiri-ore (= Kanetsuke-mitsukuchi-kiri-ore)

- Type locality: Naze, Amami Ōshima.
- Distribution: Ogasawara islands (Chichijima; Hahajima FUKUDA, 1993) and southwards, Amami islands, ECP3-ECP2, P2.
- Habitat: intertidal to 20 m., gravel.

- Original genus: *Triphora* (*Iniforis*).

G1762 *I. alba* (KOSUGE, 1961-a)

Shiratama-mitsukuchi-kiri-ore

- Type locality: Ankyaba, Kakeroma island (Amami islands).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2.
- Habitat: intertidal to 20 m., gravel.
- Original genus: *Triphora* (*Iniforis*).

G1763 *I. undata* KOSUGE, 1962

- Type locality: Ankyaba, Kakeroma island (Amami islands).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2.
- Habitat: intertidal to 20 m., gravel.

G1764 *I. violaceus* (QUOY & GAIMARD, 1834 in 1832-35)

Sumi-ire-kiri-ore

- Type locality: 'du havre Carteret de la Nouvelle-Irlande' (Kilinaiaiu (Carteret) island, off Bougainville, Solomon islands).
- Distribution: 'Pacific coast, 0-33° N.?' (KURODA & HABE, 1952-a); tropical Indo-Pacific.
- Habitat: intertidal to 20 m., gravel.
- Original genus: *Cerithium*.

Subfamily METAXIINAE MARSHALL, 1977

□ Genus *Metaxia* MONTEROSATO, 1884

Type species: *Cerithium rugulosum* SOWERBY II, 1850 (s. d. COSSMANN, 1906)

G1765 *M. brunnicephal* KAY, 1979

Arare-kiri-ore-modoki

- Type locality: Poipu beach, Kauai, Hawaii; in beach drift.
- Distribution: Ogasawara islands (Iōjima KOIZUMI, 1993); Hawaii.

Family CERITHIOPSIDAE H. & A. ADAMS, 1853 in 1853-58

(Refs.: Marshall, 1978)

Subfamily CERITHIOPSINAE H. & A. ADAMS, 1853 in 1853-58

□ Genus *Cerithiopsis* FORBES & HANLEY, 1851

Type species: *Cerithium tubercularis* MONTAGU, 1803 (o. d.)

(= *Pyramis* BROWN, 1827 non SCHUMACHER, 1817; *Conciliopsis* LASERON, 1956)

G1766 *C. subreticulata* (DUNKER, 1859 in 1859-60)

Amime-keshi-kanimori

- Type locality: Dejima, Nagasaki City.
- Distribution: Suruga bay and southwards, P6-P5, Japan Sea (Sado island, J2-J1), EC5, ECP4-ECP2; Korea.

- Habitat: intertidal to 10 m., sand.
- Original genus: *Cerithium* (*Cerithiopsis*).

G1767 *C. marileutes* (MELVILL & STANDEN, 1896)  
Hiokoshi-keshi-kanimori

- Type locality: Loyalty islands (New Caledonia).
- Distribution: Suruga bay and southwards, P6-P5, Japan Sea (Sado island, J2-J1), EC5, ECP4-ECP2; Korea.
- Habitat: intertidal to 10 m., sand.
- Original genus: *Bittium*.

G1768 *C. baculum* A. ADAMS, 1861-b

- Type locality: off Mishima (Japan Sea).
- Distribution: recorded only from type locality.

G1769 *C. cerina* A. ADAMS, 1861-b

- Type locality: off Mishima (Japan Sea).
- Distribution: recorded only from type locality.

G1770 *C. clavula* A. ADAMS, 1861-b

- Type locality: off Mishima (Japan Sea).
- Distribution: recorded only from type locality.

G1771 *C. pagodula* A. ADAMS, 1861-b

- Type locality: Korea strait, 46 fms.
- Distribution: recorded only from type locality.

G1772 *C. paxillus* A. ADAMS, 1861-b

- Type locality: Korea strait, 46 fms.
- Distribution: recorded only from type locality.

G1773 *C. arga* KAY, 1979

- Type locality: Kepuhi point, Oahu, Hawaii; 6.5 m.
- Distribution: Ogasawara islands (Iō-jima KOIZUMI, 1993); Hawaii.

G1774 *C. rosea* A. ADAMS, 1861-b

- Type locality: Tsushima, western Japan Sea; 16 fms.
- Distribution: recorded only from type locality.

G1775 *C. pulvis* ISSEL, 1869

- Type locality: Red Sea.
- Distribution: 'Pacific coast, 0-34° N.' (KURODA & HABE, 1952-a).

G1776 *C. spongicola* HABE, 1960-b

Kaimen-keshi-kanimori

- Type locality: Tomioka, Amakusa, western Kyūshū.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5; Korea (Kuryong).
- Habitat: 5-30 m., in sponges attached to *Fusinus perplexus* etc.

G1777 *C. stejnegeri* DALL, 1884-a

Kuri-iro-keshi-kanimori (= Kita-no-kaimen-keshi-kanimori)

- Type locality: Amchitka island, Aleutian islands.
- Distribution: northern Hokkaidō, OP, Kuril islands;

Kamchatka peninsula, Alaska.

- Habitat: intertidal to 20 m., in sponges.

□ Genus *Joculator* HEDLEY, 1909

Type species: *Cerithiopsis ridicula* WATSON, 1886 (o. d.)

G1778 *J. ridicula* (WATSON, 1885 in 1885-86)

Aka-sanagi-chibi-kanimori

- Type locality: 'Challenger' sta. 186, off Wednesday island, northeastern Australia; 8 fms., mud.
- Distribution: Ogasawara islands (Iō-jima KOIZUMI, 1993), Izu islands (dredged on Zenisu bank TSUCHIDA & IKEBE, 1991), Amami Ōshima (Akagina); Hawaii, northeastern Australia.
- Original genus: *Cerithiopsis*.

G1779 *J. albocincta* (MELVILL & STANDEN, 1896)

Shiro-suji-sanagi-chibi-kanimori

- Type locality: Loyalty islands (New Caledonia).
- Distribution: Amami Ōshima (Tsuchihama), Okinawa (KURODA, 1960).
- Original genus: *Bittium*.

G1780 *J. granata* KAY, 1979

Kogecha-sanagi-chibi-kanimori

- Type locality: Kiholo, Hawaii, 28 m., in sediments.
- Distribution: Ogasawara islands (Iōjima KOIZUMI, 1993), Amami Ōshima; Hawaii.

G1781 *J. ovata* LASERON, 1956-a

Shiro-obi-sanagi-chibi-kanimori

- Type locality: Hope islands, Queensland, Australia; 5-10 fms.
- Distribution: Ogasawara islands (Chichijima; Hahajima FUKUDA, 1993); northern Australia.

G1782 *J. uveanum* (MELVILL & STANDEN, 1896)

Kuro-sanagi-chibi-kanimori

- Type locality: Lifu, Loyalty islands, New Caledonia.
- Distribution: Ogasawara islands (Chichijima FUKUDA, 1993; Iōjima KOIZUMI, 1993), Amami islands (Akagine); Hawaii.
- Original genus: *Bittium*.

G1783 *J. turrigera* (WATSON, 1885 in 1885-86)

- Type locality: 'Reefs off Honolulu' (Hawaii).
- Distribution: Ogasawara islands (Iōjima KOIZUMI, 1993), Amami Ōshima (Akagine), Okinawa islands; Hawaii.
- Original genus: *Cerithiopsis*.

□ Genus *Seila* A. ADAMS, 1861-b

Type species: *Triphoris dextroversa* ADAMS & REEVE, 1850 (o. d.)

G1784 *S. dextroversa* (ADAMS & REEVE, 1850 in 1848-50)

Hon-keshi-kanimori

- Type locality: 'China Sea'.
- Distribution: 'Pacific coast, 26°-35° N., Japan Sea coast 37° N.' (KURODA & HABE, 1952-a).
- Original genus: *Triphoris*.

G1785 *S. cingulata* (A. ADAMS, 1861-b)

- Type locality: Tsushima, western Japan Sea; 16 fms.
- Distribution: 'Pacific coast, 34° N.' (KURODA & HABE, 1952-a).
- Original genus: *Cerithiopsis* (*Seila*).

G1786 *S. crassicincta* (YOKOYAMA, 1926-d)

- Type locality: Sado island, Japan Sea (fossil).
- Distribution: 'Pacific coast, 39° N., Japan Sea coast 40° N.' (KURODA & HABE, 1952-a).

□ Genus *Notoseila* FINLAY, 1926

Type species: *Cerithium terebelloides* HUTTON, 1873 (o. d.)

G1787 *N. laqueata* (GOULD, 1861 in 1859-61)

Keshi-kanimori (= Tōmaki-keshi-kanimori)

- Type locality: 'China Seas'.
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea.
- Habitat: 10-50 m., fine sand.
- Original genus: *Cerithiopsis*.

G1788 *N. crocea* (ANGAS, 1871)

Kogane-keshi-kanimori

- Type locality: dredged off Camp Cove, Port Jackson (Sydney, Australia).
- Distribution: Amami islands and southwards, Okinawa islands; Australia.
- Habitat: intertidal to 10 m., sand.
- Original genus: *Seila*.

**Notes:** a poorly-understood species. See WILSON (1993).

G1789 *N. morishimai* HABE, 1970-a

Hoso-keshi-kanimori

- Type locality: Ogokuda beach, Cape Shio, Kii peninsula.
- Distribution: Kii peninsula and southwards, P5, Ogasawara islands (Chichijima, Hahajima FUKUDA, 1993; Otōtojima FUKUDA, 1995), Japan Sea (Tsuno-shima, Yamaguchi prefecture; J1), EC5,.
- Habitat: intertidal to 10 m., sand.

□ Genus *Paraseila* LASERON, 1951

Type species: *Paraseila heronensis* LASERON, 1951 (o. d.)  
(= '*Paraseila* LASERON, 1956' *sensu* HABE, 1970-a)

G1790 *P. japonica* HABE, 1970-a

Harabuto-keshi-kanimori

- Type locality: off Funakoshi, Akita prefecture, northern Honshū (Japan Sea); 30-50 m.
- Distribution: Akita prefecture and southwards, J3-J1,

EC5.

- Habitat: 30-60 m., sandy mud.

□ Genus *Callisteuma* TOMLIN, 1929-a

Type species: *Callisteuma thelcterium* TOMLIN, 1929 (o. d.)

G1791 *C. thelcterium* TOMLIN, 1929-a

Hana-kago-keshi-kanimori

- Type locality: 'Ōshima, Osumi' (Amami Ōshima).
- Distribution: Amami islands and southwards, ECP3-ECP2.
- Habitat: intertidal to 10 m., sand.

□ Genus *Sasamocochlis* GRÜNDEL, 1980

Type species: *Laiocochlis sasamorii* KURODA, 1943

G1792 *S. sasamorii* (KURODA, 1943 in 1943-45)

Umi-kiseru-gai

- Type locality: Etorofu, southern Kuril islands.
- Distribution: Hokkaidō, Kuril islands, P10, OP.
- Habitat: 50-100 m., sandy mud.
- Original genus: *Laiocochlis*.

Subfamily EUMETULINAE GOLIKOV & STAROBOGATOV, 1975

□ Genus *Furukawaia* KURODA & HABE in HABE, 1961-a

Type species: *Furukawaia fukuensis* KURODA & HABE, 1961 (mt.)

G1793 *F. fukuensis* KURODA & HABE in HABE, 1961-a

Kakure-nina

- Type locality: off Fukui prefecture, Japan Sea. In sponge *Grantia* sp.
- Distribution: Japan Sea (off Yotsuga-ura; off Mikuriya, Fukui prefecture), Kuril islands.
- Habitat: 100-200 m., in sponges *Grantia* and *Yamatograntia*.

G1794 *F. habei* GOLIKOV & GULBIN, 1977

Habe-kakure-nina

- Type locality: off Zelenyi island, southern Kuril islands; 153 m., by R. V. 'Topok'.
- Distribution: recorded only from type locality.

Subfamily TRIFORINAE JOUSSEAUME, 1884-b

(Refs.: Marshall, 1980)

(= CERITHIELLINAE GOLIKOV & STAROBOGATOV, 1975)

□ Genus *Cerithiella* VERRILL, 1882

Type species: *Cerithium metula* LOVÉN, 1846 (o. d.)

(= *Lovenella* G. O. SARS, 1878 *non* HICKS, 1869; *Newtonia* COSSMANN, 1893 *non* SCHLEGEL, 1866; *Newtoniella* COSSMANN, 1893; *Cerithiolium* LOCARD, 1903)

G1795 *C. terebroides* KURODA & HABE in KURODA *et al.*, 1971

Konbō-kanimori (= Konbō-chibi-kanimori)

- Type locality: Sagami bay, central Honshū.
- Distribution: recorded only from type locality.

□ Genus *Ataxocerithium* TATE, 1893

Type species: *Cerithium serotinum* A. ADAMS, 1855 (o. d.)

G1796 *A. serotinum* (A. ADAMS, 1855 in SOWERBY II, 1842-87)

Kuchi-naga-kanimori

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Cerithium*.

G1797 *A. abnormale* (SOWERBY III, 1903)

Katawa-kanimori

- Type locality: 'Schizum' (Nishizu), Wakasa bay (Japan Sea).
- Distribution: Ogasawara islands (FUKUDA, 1995), Bōsō peninsula and southwards, P7-P5, Japan Sea (Sado island, J3-J1); Korea.
- Habitat: intertidal to 10 m., rocks.
- Original genus: *Triforis*.

□ Genus *Granulotriforis* KOSUGE, 1967-b

Type species: *Granulotriforis tanseiae* KOSUGE, 1967 (o. d.)

G1798 *G. tanseiae* KOSUGE, 1967-b

Mukashi-kiri-ore

- Type locality: off Izu peninsula, central Honshū.
- Distribution: recorded only from type locality.

Superfamily JANTHINOIDEA LAMARCK, 1812

(= EPITONOIDEA BERRY, 1910)

Family JANTHINIDAE LAMARCK, 1812

□ Genus *Janthina* RÖDING, 1798

Type species: *Janthina violacea* RÖDING, 1798 (by tautonymy; = *Helix janthina* LINNAEUS, 1758) (= *Janthina auct.*; *Fragilis* LAMARCK, 1816; *Communis* LAMARCK, 1822)

Subgenus *Janthina s. str.*

G1799 *J. (J.) janthina* (LINNAEUS, 1758)

(= *J. violacea* RÖDING, 1798; *J. ianthina* LINK, 1807; *Fragilis fragilis* LAMARCK, 1816; *Communis communis* LAMARCK, 1822 in 1815-22; *Ianthina planispirata* ADAMS & REEVE, 1850 in 1848-50; *J. balteata* REEVE, 1858; *J. depressa* REEVE, 1858; *J. carpenteri* MÖRCH, 1860; *J. planispira sensu* SOWERBY, 1882)

Asagao-gai (= Koshitaka-asagao-gai)

• Type locality: 'in Europa, Asia, Africa; in *M. Mediterraneo frequentior; etiam pelagica*'.

- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (Yamagata prefecture, J3-J1), EC5, ECP4-ECP2, P2; warm seas worldwide.
- Habitat: pelagic on rafts of mucus bubbles.
- Original genus: *Helix*.

Subgenus *Violetta* IREDALE, 1929

Type species: *Janthina globosa* SWAINSON, 1822 (o. d.; = *Janthina exigua* LAMARCK, 1816) (= *Jodina* MÖRCH, 1860; *Iodina auct.*)

G1800 *J. (V.) exigua* LAMARCK, 1816-a

(= *J. globosa* SWAINSON, 1822; *J. prolongata* BLAINVILLE, 1822; *J. nitens* MENKE, 1828; *J. bifida* 'NUTTALL' sensu JAY, 1839; *J. decollata* CARPENTER, 1857; *J. iricolor* REEVE, 1858; *J. capreolata* MONTROUZIER, 1859)

Ruri-gai (= Shiro-obi-ruri-gai)

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2; warm seas worldwide.
- Habitat: pelagic on rafts of mucus bubbles.

G1801 *J. (V.) pallida* THOMPSON, 1841

(= *Ianthina striolata* ADAMS & REEVE, 1848 in 1848-50; *J. laeta* MONTEROSATO 1884)

Habutae-ruri-gai

- Type locality: Miltown Malbay, coast of Co. Clare, western Ireland.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; warm and temperate seas worldwide.
- Habitat: pelagic on rafts of mucus bubbles.

G1802 *J. (V.) umbilicata* D'ORBIGNY, 1840

(= *Ianthina megastoma* A. ADAMS, 1861; *I. exigua sensu* IWAKAWA, 1919; *J. exigua sensu* KURODA, 1928)

Hime-ruri-gai

- Type locality: West Indies.
- Distribution: Bōsō peninsula and southwards, P7-P5, western Japan Sea (Yamaguchi prefecture IKEDA & TADA, 1963), EC5, ECP4-ECP2, P2; warm seas worldwide.
- Habitat: pelagic on rafts of mucus bubbles.

□ Genus *Recluzia* PETIT, 1853

Type species: *Recluzia jehennei* PETIT, 1853 (o. d.)

G1803 *R. lutea* (BENNETT, 1840)

(= *R. rollandiana* PETIT, 1853; *R. bensoni* A. ADAMS, 1861; *Lymnaea palmeri* DALL, 1871; *R. montrouzieri* SOUVERBIE, 1871; *R. johni sensu* HABE, 1964)

Hirugao-gai

- Type locality: Pacific Ocean.
- Distribution: Bōsō peninsula and southwards, P7-P5, western Japan Sea (Yamaguchi prefecture), EC5, ECP4-ECP2, P2; widely distributed in western Pacific.
- Original genus: *Janthina*.

Family **EPITONIIDAE BERRY, 1910**

(Refs.: Masahito & Habe, 1975; 1976)

□ Genus ***Acirsa* MÖRCH, 1857**

Type species: *Turritella costulata* MIGHEL'S & ADAMS, 1842 (s. d. COSSMANN, 1912)

(= *Hemiacirsa* BOURY, 1890; *Pseudacirsa* KOBELT, 1903)

Subgenus *Acirsa s. str.*

G1804 **A. (A.) ochotensis (MIDDENDORFF, 1849 in 1847-49)**

Ohōtsuku-itokake

- Type locality: southern coasts of the Okhotsk Sea.
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, P9-P10, OP, Okhotsk Sea; Bering Sea, Alaska.
- Habitat: 30-100 m.
- Original genus: *Scalaria*.

**Notes:** the shell known as Hokkyoku-itokake has been cited as *Turritella costulata* MIGHEL'S & ADAMS, 1842 (type locality: Casco Bay, Maine, northeastern USA). The present authors have been unable to confirm distribution of this species in Japan.

Subgenus ***Plesioacirsa* BOURY, 1909**

Type species: *Scalaria subdecussata* CANTRAINE, 1835 (o. d.; = *Turritella pelagica* RISSO, 1826)

G1805 **A. (P.) chitaniana (YOKOYAMA, 1926)**

(= *A. martensi sensu* KURODA & HABE, 1952-a non BOURY, 1913)

- Type locality: Anden, Akita prefecture (fossil).
- Distribution: Sagami bay, off Chōshi (Chiba prefecture, central Honshū), off Iki island (northwestern Kyūshū).
- Habitat: 90-325 m., sand.
- Original genus: *Turbonilla (Mormula)*.

**Notes:** the status of *A. martensi* BOURY, 1913 (type locality: Japan) is uncertain; Kuroda, Habe & Ōyama (1971) included it in the synonymy of *A. chitaniana* in parentheses with no further comment.

□ Genus ***Nodiscala* BOURY, 1889**

Type species: *Scalaria bicarinata* SOWERBY II, 1844 (o. d.)

G1806 ***N. bicarinata* (SOWERBY II, 1844-a)**

- Type locality: 'Found by Mr. Cuming in coarse black sand at seven fathoms, at Dumaguete, isle of Negros' (Philippines).
- Distribution: 'Pacific coast, 14° N., Japan Sea coast 35°

N.' (KURODA & HABE, 1952-a); Philippines.

- Original genus: *Scalaria*.

G1807 ***N. attenuata* (PEASE, 1861)**

Fushi-itokake-gai

- Type locality: Hawaiian islands.
- Distribution: Kii peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, Cocos-Keeling islands, Hawaii.
- Habitat: 5-20 m., sand.
- Original genus: *Scalaria*.

G1808 ***N. monovaricosa* KURODA & HABE in HABE, 1961-a**

Hito-fushi-itokake

- Type locality: off Chōshi (Chiba prefecture, central Honshū), ± 100 m.
- Distribution: off Chōshi and southwards, P7-P5, Japan Sea (Wakasa bay, J2-J1), EC5.
- Habitat: 50-100 m., sand.

G1809 ***N. mormulaeformis* MASAHILO, KURODA & HABE in KURODA et al., 1971**

Chōji-fushi-itokake

- Type locality: Sagami bay, central Honshū.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, Japan Sea (Sado island ITŌ, 1989; off Tsunoshima TSUCHIDA & HORI, 1996), EC5.
- Habitat: 10-150 m., sand.

G1810 ***N. gracilis* MASAHILO, KURODA & HABE in KURODA et al., 1971**

Naga-fushi-itokake

- Type locality: Sagami bay, central Honshū, 67-80 m.
- Distribution: Sagami bay.
- Habitat: 50-100 m., sand.

G1811 ***N. matajiroi* KURODA, 1954**

(= *Scala rissinaeformis* YOKOYAMA, 1927 non MELVILL & STANDEN, 1903)

Ko-fushi-itokake

- Type locality: Ōji, Kita-Ku, Tōkyō (fossil).
- Distribution: Sagami bay and southwards, P6-P5, northwestern Kyūshū, EC5.
- Habitat: 5-50 m., fine sand.

G1812 ***N. japonica* OKUTANI, 1964-b**

- Type locality: 'Sōyō-Maru' sta. 72, off western Kyūshū: 31° 31.0' N., 129° 21.0' E., 720-760 m.
- Distribution: Enshū-nada (OKUTANI, 1964-b), southern Shikoku, off western Kyūshū.
- Habitat: 600-800 m.

□ Genus ***Eglisia* GRAY, 1847**

Type species: *Turritella spirata* SOWERBY I, 1825

G1813 *E. lanceolata* REEVE, 1849 in 1843-65

Habutae-kiri-itokake

- Type locality: 'Pasacao, Island of Luzon (in sandy mud at the depth of ten fathoms)'.  
 • Distribution: Kii peninsula and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines.  
 • Habitat: intertidal to 50 m., sand.

G1814 *E. tricarinata* ADAMS & REEVE, 1850 in 1848-50

(= *E. cumingii* A. ADAMS, 1851)

Kiri-itokake

- Type locality: 'China Sea'.  
 • Distribution: Kii peninsula and southwards, P6-P5, EC5, East China Sea, ECP4-ECP2, P2; Philippines, Australia.  
 • Habitat: intertidal to 50 m., sand.

G1815 *E. brunnea* HABE & KOSUGE, 1966-b

Kuri-iro-kiri-itokake

- Type locality: Zamboanga, Mindanao, Philippines.  
 • Distribution: P2; Taiwan and southwards, Philippines, western Pacific.  
 • Habitat: 20-50 m., sand.

□ Genus *Cirsotrema* MÖRCH, 1852

Type species: *Scalaria varicosa* LAMARCK, 1822 (mt.)

(= *Caloscala* TATE, 1885; *Cirsostrema* (*sic*) sensu CONRAD, 1865 *err. pro -otrema*; *Cirsotremopsis* THIELE, 1928)

Subgenus *Cirsotrema s. str.*

G1816 *C. (C.) varicosum* (LAMARCK, 1822 in 1815-22)

Chirimmen-nina

- Type locality: none designated.  
 • Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, western Pacific, Australia.  
 • Habitat: 20-50 m., sand.  
 • Original genus: *Scalaria*.

G1817 *C. (C.) turriculoides* (YOKOYAMA, 1920)

(= *C. plexis* DALL, 1925)

Hoso-chirimmen-nina

- Type locality: Koshiha, Yokohama City (fossil).  
 • Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Wakasa bay, J2-J1), EC5.  
 • Habitat: 50-200 m., sand.  
 • Original genus: *Scalaria*.

G1818 *C. (C.) abbreviatum* (SOWERBY II, 1874)

Ijike-chirimmen-nina

- Type locality: Philippines.  
 • Distribution: Amami Ōshima and southwards, ECP3-ECP2, P2; Philippines.  
 • Habitat: intertidal to 50 m., sand.  
 • Original genus: *Scalaria*.

G1819 *C. (C.) bavayi* BOURY, 1913-a

Naga-chirimmen-nina

- Type locality: 'Nouvelle-Calédonie' (New Caledonia).  
 • Distribution: Amami Ōshima and southwards, ECP3-ECP2, P2; Philippines, Australia.  
 • Habitat: intertidal to 50 m., sand.  
 • Original genus: *Scala* (*Cirsotrema*).

G1820 *C. (C.) kagayai* HABE & ITŌ, 1965-b

Hokkai-itokake

- Type locality: off Muroran, Hokkaidō; 200-300 m.  
 • Distribution: off Chōshi (Chiba prefecture, central Honshū) and northwards, P8-P10, OP, Kuril islands.  
 • Habitat: 200-300 m., sandy mud.

G1821 *C. (C.) eximium* (ADAMS & REEVE, 1850 in 1848-50)

• Type locality: 'China Sea'.

- Distribution: Kii peninsula and southwards, western Kyūshū, P5, EC5, East China Sea.  
 • Habitat: 20-50 m., sand.  
 • Original genus: *Scalaria*.

G1822 *C. (C.) crassilabrum* (SOWERBY II, 1844 in 1842-87)

Nejire-chirimmen-nina

- Type locality: 'Ticao and Cagayan Isl., Mindoro of the Philippines; also from Sansonati in Central America'.  
 • Distribution: Japan Sea (Mishima); 'Pacific coast from 14° N., Japan Sea coast 35° N.' (KURODA & HABE, 1952-a); Philippines.  
 • Original genus: *Scalaria*.

G1823 *C. (C.) cribrarium* A. ADAMS, 1861-h

- Type locality: Tsushima, western Japan Sea; 26 fms.  
 • Distribution: recorded only from type locality.

G1824 *C. (C.) suturalis* (HINDS, 1844 in 1844-45)

- Type locality: 'Straits of Malacca (Indonesia); from seventeen fathoms, among mud'.  
 • Distribution: 'Pacific coast, 0-34° N.' (KURODA & HABE, 1952-a); Indonesia.  
 • Original genus: *Scalaria*.

G1825 *C. (C.) turbonilla* A. ADAMS, 1861-h

- Type locality: Mishima, Japan Sea; 63 fms.  
 • Distribution: recorded only from type locality.

□ Genus *Gyroskala* BOURY, 1887

Type species: *Scalaria commutata* MONTEROSATO, 1877 (o. d.)

Subgenus *Pomiscala* IREDALE, 1936

Type species: *Scala perplicata* IREDALE, 1929 (o. d.)

G1826 *G. (P.) perplexa* (PEASE, 1867)

(= *Scalaria lamellosa* LAMARCK *auct.*; *G. purplexa* (*sic*) sensu Is. TAKI, 1957; *G. hachijoensis* Is. TAKI, 1957)

Neji-gai

- Type locality: Hawaii.
- Distribution: southwestern Hokkaidō (Pacific side) and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific to Australia, Marshall islands.
- Habitat: intertidal to 10 m., on sessile anemones on rocks.

□ Genus *Elegantiscala* BOURY, 1911

Type species: *Scalaria elegantissima* DESHAYES, 1861 (o. d.)

G1827 *E. fimbriatula* MASAHITO, KURODA & HABE in KURODA *et al.*, 1971

(= *Scala fimbriata* A. ADAMS, 1861-h non LAMARCK, 1816 in 1815-22; *Cirsotrema (Elegantiscala) fimbriatum* KURODA & HABE, 1954 *nom. nud.*)

Chijiwa-itokake

- Type locality: off Mishima (Japan Sea).
- Distribution: Sagami bay and southwards, P6-P5, Japan Sea (Sado island, J2-J1), EC5.
- Habitat: 15-200 m., sand.

G1828 *E. rugosa* (KURODA & ITŌ, 1961-a)

(= *Epitonium (Elegantiscala) kurodai* KIRA *sensu* SHIKAMA & HORIKOSHI, 1963)

Yaeba-itokake (= Yaeba-chirimen-nina)

- Type locality: Tosa bay, southern Shikoku.
- Distribution: off Bōsō peninsula and southwards, P7 to Tosa bay.
- Habitat: 150-300 m., sandy mud.
- Original genus: *Cirsotrema (Elegantiscala)*.

G1829 *E. kieneri* (TAPPARONE-CANEFRI, 1876)

Yūbi-itokake (= Hime-yaeba-itokake)

- Type locality: Mauritius and New Caledonia.
- Distribution: Japan Sea (off Mishima); Indo-west Pacific, Dampier Archipelago, western Australia, southern Queensland.
- Original genus: *Epitonium (Cirsotrema)*.

G1830 *E. edgari* (BOURY, 1913)

(= *Epitonium (Laniscala) eboreum* LAN, 1976)

Kasen-itokake (= Ran-chirimen-itokake)

- Type locality: 'Macclesfield Bank, China Sea' 'entre le Tonkin et l'île Luzon par 300 ou 400 metres de fond' (central South China Sea, between the Gulf of Tonkin, Vietnam and Luzon, Philippines).
- Distribution: Kii peninsula (off Susami KOYAMA, 1983); off Taiwan, Philippines.
- Habitat: 200-400 m., sandy mud.
- Original genus: *Scala (Discoscala)*.

G1831 *E. trabeculata* (A. ADAMS, 1861-h)

- Type locality: Mishima, Japan Sea, 63 fms.
- Distribution: 'Japan Sea, 35° N.' (KURODA & HABE,

1952-a).

□ Genus *Amaea* H. & A. ADAMS, 1853 in 1853-58

Type species: *Scalaria magnifica* SOWERBY II, 1844 (s. d. BOURY, 1913)

G1832 *A. (A.) magnifica* (SOWERBY II, 1844 in 1842-87)

Naga-itokake

- Type locality: 'China Sea'.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, Japan Sea (off Mishima, J2-J1), EC5, East China Sea, ECP4-ECP2, P2; Philippines.
- Habitat: 50-200 m., fine sand.
- Original genus: *Scalaria*.

G1833 *A. (A.) secunda* KURODA & ITŌ, 1961-a

Tsugi-no-naga-itokake

- Type locality: Kii strait, central Honshū.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, East China Sea.
- Habitat: 100-200 m., sand.

G1834 *A. (A.) iwaotakii* AZUMA, 1961-b

(= *A. tertitia* KURODA, MS *sensu* AZUMA, 1960)

Taki-itokake (= Tsuzure-naga-itokake; Chisuji-itokake; Daisan-no-naga-itokake)

- Type locality: Tosa bay off Kōchi prefecture, southern Shikoku; 100 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, East China Sea.
- Habitat: 100-200 m., sand.

G1835 *A. (A.) thielei* (BOURY, 1913)

(= *Scalaria picturata* YOKOYAMA, 1922)

Kurin-itokake (= Kurin-gai; Kazu-itokake; Ōji-itokake)

- Type locality: 'Japon' and 'Philippines'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea (KIMURA, 1996-a), Japan Sea (Sado island, J3-J1), EC5, East China Sea.
- Habitat: 10-25 m., fine sand.
- Original genus: *Scala (Amoeba)*.

G1836 *A. (A.) ogatoi* MASAHITO & HABE, 1975

Kogata-kurin-itokake

- Type locality: off Ushijima, Sakaide, Kagawa prefecture, northern Shikoku (Seto inland sea KIMURA, 1996-a).
- Distribution: Seto inland sea (Hyōgo prefecture to Yamaguchi prefecture).

G1837 *A. (A.) setonaiensis* MASAHITO & HABE, 1975

Seto-uchi-itokake

- Type locality: Seijima island, off Sakaide, Kagawa prefecture, northern Shikoku (Seto inland sea).
- Distribution: Seto inland sea.



G1838 A. (A.) *luxus* OKUTANI, 1964-b

- Type locality: 'Sōyō-Maru' sta. b, 56 miles off Aogashima island; 32° 20.0' N., 140° 55.5' E., 3150-3350 m.
- Distribution: recorded only from type locality.

G1839 A. (A.) *noguchii* HABE & MASUDA, 1990

Noguchi-naga-itokake

- Type locality: Enshū-nada off Aichi prefecture, central Honshū.
- Distribution: recorded only from type locality.

Subgenus *Scalina* CONRAD, 1865

Type species: *Scalina staminea* CONRAD, 1860 (s. d. PALMER, 1937)

(= *Ferminoscala* DALL, 1908)

G1840 A. (S.) *gazeoides* KURODA & HABE in HABE, 1961-a

Nunome-itokake

- Type locality: off Cape Ashizuri, southwestern Shikoku; 100-200 m.
- Distribution: Kii peninsula and southwards, P5, EC5, East China Sea.
- Habitat: 100-200 m., sand.

G1841 A. (S.) *sericogazea* (MASAHITO, KURODA & HABE in KURODA *et al.*, 1971)

Kinuji-nunome-itokake

- Type locality: Sagami bay, central Honshū.
- Distribution: off Chōshi (Chiba prefecture, central Honshū), Sagami bay, southern Shikoku.
- Habitat: 100-200 m., sand.

G1842 A. (S.) *mathildona* (MASAHITO, KURODA & HABE in KURODA *et al.*, 1971)

Asabu-itokake

- Type locality: Sagami bay, central Honshū.
- Distribution: Sagami bay, Japan Sea (Wakasa bay).
- Habitat: 40-150 m.

**Notes:** Hosonunome-itokake is apparently an un-named species; it is often cited as *Scalaria decussata* LAMARCK, 1804, an Eocene fossil species from Grignon, Paris Basin.

G1843 A. (S.) *splendida* (BOURY, 1913-a)

(= A. (S.) *kawamurai* KURODA, MS *sensu* AZUMA, 1960)

Hō-itokake

- Type locality: 'Île Maurice' (Mauritius).
- Distribution: Kii peninsula and southwards, P5, EC5, East China Sea, ECP4.
- Habitat: 100-200 m., sand.
- Original genus: *Scala* (*Elegantiscala*).

□ Genus *Fragiliscala* AZUMA, 1962-a

Type species: *Fragiliscala tosaensis* AZUMA, 1962 (o. d.)

G1844 *F. tosaensis* AZUMA, 1962-a

(= *Cirsotrema* (*Fragiliscala*) *fragile* KURODA, MS *sensu* AZUMA, 1960)

Tosa-cha-iro-hire-itokake

- Type locality: Tosa bay, southern Shikoku; ± 100 fms.
- Distribution: Suruga bay, Tosa bay, Japan Sea (Wakasa bay).
- Habitat: 50-200 m., sand.

□ Genus *Claviscala* BOURY, 1909

Type species: *Scalaria richardi* DAUTZENBERG & BOURY, 1897 (o. d.)

G1845 *C. kuroharai* KURODA in HABE, 1961-a

Kurohara-itokake

- Type locality: off Kōchi prefecture, southern Shikoku; 200-300 m.
- Distribution: off Chōshi (Chiba prefecture, central Honshū), southern Shikoku.
- Habitat: 200-400 m.

G1846 *C. turrita* NAKAYAMA, 1995-b

Togari-itokake

- Type locality: off Kushimoto, Kii peninsula, central Honshū; 520 m.
- Distribution: southern and eastern Kii peninsula.

G1847 *C. solar* NAKAYAMA, 1995-b

Taiyō-itokake

- Type locality: south of Tanabe, Kii peninsula, central Honshū; 240 m.
- Distribution: Kii peninsula (off Owase, Mie prefecture to Nada, Gobō City, Wayama prefecture).
- Habitat: 200-300 m.

□ Genus *Clathroscala* BOURY, 1889

Type species: *Turbo cancellata* BROCCCHI, 1814 (o. d.)

G1848 *Clath. subcancellata* (AZUMA, 1962-a)

(= *Amaea* (*Clathroscala*) *crassilabra* KURODA, MS *sensu* AZUMA, 1961)

Kagome-fushi-itokake (= Kagome-itokake)

- Type locality: Tosa bay, southern Shikoku; ± 150 fms.
- Distribution: off Chōshi (Chiba prefecture, central Honshū), Kii peninsula to Tosa bay.
- Habitat: 200-300 m., sand.
- Original genus: *Amaea* (*Clathroscala*).

G1849 *Clath. cerea* MASAHITO, KURODA & HABE in KURODA *et al.*, 1971

(= *Amaea* (*Clathroscala*) *cerea* KURODA, MS *sensu* AZUMA, 1960 *nom. nud.*)

Rō-iro-kagome-itokake

- Type locality: Sagami bay, central Honshū.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, Japan Sea (southwest off Sado island; Wakasa bay), western Kyūshū.

- Habitat: 40-200 m., sand.

G1850 *Clath. tosaensis* **HABE & MASUDA, 1990**  
( = *Amaea (Clathroscala) tosaensis* KURODA, MS *sensu* AZUMA, 1960 *nom. nud.*)

- Type locality: Tosa bay, southern Shikoku.
- Distribution: Enshū-nada and southwards, off Kii peninsula, P6-P5, EC5, East China Sea.
- Habitat: 200-300 m., sand.

□ Genus *Constantia* **A. ADAMS, 1860-b**  
Type species: *Constantia elegans* A. ADAMS, 1860

G1851 *Con. elegans* **A. ADAMS, 1860-b**  
• Type locality: Korea strait, near Mishima, western Japan Sea; 63 fms.  
• Distribution: 'Japan Sea coast, 35° N.' (KURODA & HABE, 1952-a).

G1852 *Con. tantilla* **A. ADAMS, 1861-h**  
• Type locality: 'Tabu-sima' (Tobishima, Japan Sea off Yamagata prefecture); 25 fms.  
• Distribution: 'Japan Sea coast, 39° N.' (KURODA & HABE, 1952-a); type locality.

□ Genus *Variciscala* **BOURY, 1909**  
Type species: *Scalaria raricosta* LAMARCK, 1822  
Subgenus *Filiscala* **BOURY, 1911**  
Type species: *Turbo martinii* WOOD, 1828

G1853 *V. (F.) martinii* (**WOOD, 1828 in 1818-28**)  
Makimono-itokake  
• Type locality: none designated.  
• Distribution: Kii peninsula and southwards, P5, EC5.  
• Habitat: 20-50 m., sandy mud.  
• Original genus: *Turbo*.

G1854 *V. (F.) immaculata* (**SOWERBY II, 1844 in 1842-87**)  
Kinu-itokake  
• Type locality: 'Catanuan, Island of Luzon, Philippines'.  
• Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, EC5; Philippines.  
• Habitat: 20-50 m., sandy mud.  
• Original genus: *Scalaria*.

□ Genus *Fragilopalina* **AZUMA, 1972-b**  
Type species: *Fragilopalina nebulodermata* AZUMA, 1972 (o. d.)

G1855 *F. nebulodermata* **AZUMA, 1972-b**  
Kumori-habutae-itokake  
• Type locality: off southwestern Taiwan, ± 80 fms.  
• Distribution: southern Kii peninsula and southwards, P5, Tosa bay, western Japan Sea (off Tsunoshima TSUCHIDA & HORI, 1996); southwestern Taiwan.  
• Habitat: 100-200 m., sand.

G1856 *F. bitaeniata* **MASAHITO & HABE, 1976**  
Futa-obi-habutae-itokake  
• Type locality: off Esuzaki (cape), Wakayama prefecture (Kii peninsula, central Honshū), 150 m.  
• Distribution: recorded only from type locality.

□ Genus *Foliaceiscala* **BOURY, 1912**  
Type species: *Scalaria dubia* SOWERBY II, 1844

G1857 *Fo. dubium* (**SOWERBY II, 1844-a**)  
Ryūkyū-itokake  
• Type locality: 'Ticao, Philippinarum' (Ticao, Philippines); 'Taken on reefs'.  
• Distribution: Amami Ōshima and southwards, ECP3-ECP2; Philippines, Indo-west Pacific.  
• Habitat: intertidal to 20 m., sand.  
• Original genus: *Scalaria*.

G1858 *Fo. lyra* (**SOWERBY II, 1844 in 1842-87**)  
( = '*Epitonium (Foliaceiscala) cf. dubia* (SOWERBY, 1844)' *sensu* KURODA, 1928)  
Habutae-sekimori  
• Type locality: 'China Sea'.  
• Distribution: Amami Ōshima and southwards, ECP3-ECP2, P2; Philippines, Indo-west Pacific to central Pacific, Australia.  
• Habitat: intertidal to 20 m., sand.  
• Original genus: *Scalaria*.

G1859 *Fo. virgo* **MASAHITO & HABE, 1976**  
Otome-habutae-sekimori  
• Type locality: off Esuzaki (cape), Wakayama prefecture (Kii peninsula, central Honshū); 150 m.  
• Distribution: recorded only from type locality.

□ Genus *Epitonium* **RÖDING, 1798**  
Type species: *Epitonium breve* RÖDING, 1798 (s. d. SUTER, 1913; = *Turbo scalare* LINNAEUS, 1758)  
( = *Scala* BRUGUIÈRE, 1792 in 1789-1816; *Cyclostoma* LAMARCK, 1799; *Scalaria* LAMARCK, 1801; *Scalatarius* DUMÉRIL, 1806; *Scalarius* MONTFORT, 1810; *Scalorus* MONTFORT, 1810; *Aciona* LEACH, 1815; *Parviscala* BOURY, 1887; *Linctiscala* MONTEROSATO, 1890; *Arctoscala* DALL, 1909; *Anguliscala*, *Liriscala*, *Minutiscala*, *Pyramiscala*, all BOURY, 1909)  
Subgenus *Epitonium s. str.*

G1860 *E. (E.) scalare* (**LINNAEUS, 1758**)  
( = *E. breve* RÖDING, 1798; *Scalaria pretiosa* LAMARCK, 1816)  
Ō-itokake  
• Type locality: none designated.  
• Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2, P2; Philippines, China, southeastern Asia, northern Australia, Indo-west Pacific.

- Habitat: 20-50 m., fine sand.

- Original genus: *Turbo*.

G1861 *E. (E.) kandai* KURODA & AZUMA in AZUMA, 1961-b

(= *E. kandai* KURODA, MS *sensu* AZUMA, 1960 *nom. nud.*; *E. subscalare* KURODA, MS *sensu* AZUMA, 1960 *nom. nud.*)

Kanda-itokake (= Ara-kuwagata-itokake; Me-ō-itokake)

- Type locality: off Kii peninsula, central Honshū; 30-40 fms.

- Distribution: Sagami bay and southwards, P6-P5, EC5.

- Habitat: 30-100 m., sand.

G1862 *E. (E.) tokyoense* KURODA, 1930 in 1929-31

Edo-itokake

- Type locality: Ōi, Shinagawa-ku, Tōkyō City (fossil).

- Distribution: Bōsō peninsula and southwards, P7-P5, Ōsaka bay (OKAMURA & KOJIMA, 1984), Japan Sea (off central Niigata prefecture, J3-J1), EC5.

- Habitat: 20-50 m., fine sand.

G1863 *E. (E.) syoichiroi* MASAHITO & HABE, 1976

Hayashi-itokake

- Type locality: Enshū-nada, off Aichi prefecture, central Honshū.

- Distribution: Enshū-nada to eastern Kii peninsula.

G1864 *E. (E.) elegantulum* (A. ADAMS, 1861-h)

- Type locality: off Mishima (Japan Sea), 63 fms.

- Distribution: 'Japan Sea, 35° N.' (KURODA & HABE, 1952-a).

G1865 *E. (E.) maculosum* (ADAMS & REEVE, 1850 in 1848-50)

(= *E. maculosum* (PILSBRY) *sensu* AZUMA, 1960)

- Type locality: 'China Sea'.

- Distribution: Tosa bay (southern Shikoku); Persian Gulf.

G1866 *E. (E.) exquisitum* (A. ADAMS, 1864-d)

- Type locality: Gotō islands, off western Kyūshū; 71 fms.

- Distribution: 'Pacific coast, 33° N.' (KURODA & HABE, 1952-a).

G1867 *E. (E.) glabratum* (HINDS, 1844 in 1844-45)

Arabia-cha-madara-itokake

- Type locality: 'Amboina; Straits of Macassar; Straits of Malacca (Indonesia). On the muddy floor, in from ten to seventeen fathoms'.

- Distribution: 'Pacific coast, 0-34° N.' (KURODA & HABE, 1952-a); Persian Gulf, Indonesia.

- Original genus: *Scalaria*.

G1868 *E. (E.) irregularis* (SOWERBY II, 1844-a)

- Type locality: 'Catanauan, pr. Tayabas, ins. Luzon, Philippinarum' (Luzon, Philippines); 'Found in sandy mud at eight to ten fathoms'.

- Distribution: off Mishima, Japan Sea (A. ADAMS quoted in KURODA & HABE, 1952-a) to New Hebrides.

- Original genus: *Scalaria*.

G1869 *E. (E.) obliquum* (SOWERBY II, 1844 in 1842-87)

- Type locality: 'China Sea'.

- Distribution: off Mishima, Japan Sea (A. ADAMS quoted in KURODA & HABE, 1952-a).

- Original genus: *Scalaria*.

G1870 *E. (E.) praeclarum* (A. ADAMS, 1861-h)

- Type locality: Korea strait; 46 fms.

- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

- Original genus: *Scala*.

G1871 *E. (E.) pulcherrimum* (SOWERBY II, 1844-a)

- Type locality: 'Found by Mr. Cuming in black sand at a depth of four fathoms, at Dumaguete, isle of Negros' (Philippines).

- Distribution: off Mishima, Japan Sea (A. ADAMS quoted in KURODA & HABE, 1952-a).

- Original genus: *Scalaria*.

G1872 *E. (E.) rubrolineatum* (SOWERBY II, 1844 in 1842-87)

- Type locality: Australia and Philippines.

- Distribution: off Mishima, Japan Sea (A. ADAMS quoted in KURODA & HABE, 1952-a), off Togi (Noto peninsula); Australia, Philippines.

- Habitat: 100-150 m.

- Original genus: *Scalaria*.

G1873 *E. (E.) spiralis* (A. ADAMS, 1861-h)

- Type locality: off Mishima, Japan Sea, 63 fms.

- Distribution: recorded only from type locality.

- Original genus: *Scala*.

G1874 *E. (E.) trifasciatum* (SOWERBY II, 1844 in 1842-87)

- Type locality: Singapore and Philippines.

- Distribution: 'Pacific coast, 0-35° N.' (KURODA & HABE, 1952-a); type localities.

Subgenus *Hyaloscala* BOURY, 1909

Type species: *Turbo clathratulus* KANMACHER, 1797 (o. d.)

G1875 *E. (H.) paumotensis* (PEASE, 1868)

Hime-itokake

- Type locality: 'Paumotos' (Tuamotu Archipelago).

- Distribution: Ogasawara islands (Chichijima FUKUDA, 1993); Hawaii, Tuamotos.

- Original genus: *Scalaria*.

Subgenus *Kiiscala* NAKAYAMA, 1995-b

Type species: *Epitonium (Kiiscala) laxatoides*

NAKAYAMA, 1995 (o. d.)

G1876 *E. (K.) laxatoides* NAKAYAMA, 1995-b

(= *Ecclesiogyra laxatoides* KURODA, MS *sensu* MATSUKUMA, OKUTANI & HABE, 1991)

Hazure-itokake

- Type locality: south off Kushimoto, Kii peninsula, central Honshū; 520 m.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Kii peninsula, Tosa bay.
- Habitat: 100-200 m., sandy mud.

□ Genus *Boreoscala* KOBELT, 1907

Type species: '*Scalaria groenlandica* CHEMNITZ' (= *Scalaria groenlandica* PERRY, 1811)

G1877 *B. groenlandica* (PERRY, 1811)

(= *B. groenlandica* auct.; *B. groenlandicum japonicum* SHIKAMA, 1962-a)

Ezo-itokake (= Chibi-ezo-itokake)

- Type locality: Greenland.
- Distribution: off Chōshi (Chiba prefecture, central Honshū SHIKAMA, 1962-a) and northwards, P8-P10, OP, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J5); Hokkaidō to Alaska, Arctic Ocean, Atlantic Ocean.
- Habitat: subtidal to 650 m., sandy mud.
- Original genus: *Scalaria*.

□ Genus *Acrilla* H. ADAMS, 1860-a

Type species: *Scalaria acuminata* SOWERBY II, 1844 (= *Adiscoacrilla* SACCO, 1890; *Texiscala* BOURY, 1911)

G1878 *A. acuminata* (SOWERBY II, 1844-a)

(= *Scalaria minor* SOWERBY, 1873)

Une-nashi-itokake

- Type locality: 'Found by Mr. Cuming in sandy mud at seven fathoms at Malacca' (Malacca strait, Indonesia).
- Distribution: Kashima-nada and southwards, P8-P5, Japan Sea (Sado island, J3-J1), EC5, ECP4-ECP2, P2; Korea, Philippines, Red Sea to Australia.
- Habitat: 10-100 m., fine sand.
- Original genus: *Scalaria*.

□ Genus *Lampropalia* KURODA & ITŌ, 1961-a

Type species: *Lampropalia nitida* KURODA & ITŌ, 1961 (o. d.)

G1879 *L. nitida* KURODA & ITŌ, 1961-a

Migaki-itokake

- Type locality: Tosa bay, southern Shikoku.
- Distribution: off Kii peninsula, Tosa bay.
- Habitat: 100-200 m., sandy mud.

G1880 *L. enamelis* NAKAYAMA, 1995-b

(= *Epitonium (Lampropalia)* sp. *sensu* SHIKAMA & HORIKOSHI, 1963; *L. enamelis* KURODA, MS *sensu* MATSUKUMA, OKUTANI & HABE, 1991)

Enameru-itokake

- Type locality: south off Kushimoto, Kii peninsula, central Honshū; 520 m.
- Distribution: Ise bay and southwards, P6-P5, EC5, ECP4.
- Habitat: 100-550 m., sandy mud.

□ Genus *Mazescala* IREDALE, 1936-b

Type species: *Mazescala thrasys* IREDALE, 1936 (o. d.)

G1881 *M. koyamai* NAKAYAMA, 1995

Koyama-itokake

- Type locality: south of Tanabe, Kii peninsula, central Honshū; 220-280 m.
- Distribution: recorded only from type locality.

□ Genus *Viciniscala* BOURY, 1909

Type species: *Scalaria pallasii* KIENER, 1838 (o. d.)

G1882 *V. pallasii* (KIENER, 1838 in 1834-80)

Kuwagata-itokake

- Type locality: none designated.
- Distribution: Enshū-nada (off Aichi prefecture) and southwards, P6-P5, western Kyūshū, ECP4-ECP2, P2; Philippines, China, tropical Indo-Pacific, Australia.
- Habitat: 150-300 m., sand.
- Original genus: *Scalaria*.

G1883 *V. neglecta* (ADAMS & REEVE, 1850 in 1848-50)

(= *Scala inclyta* MELVILL, 1885)

Hire-itokake

- Type locality: 'China Sea'.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, East China Sea, P2; Philippines to Australia.
- Habitat: 50-200 m., fine sand.
- Original genus: *Scalaria*.

G1884 *V. okezoko* AZUMA, 1962-a

(= *Epitonium (Viciniscala) profundorum* KURODA, MS *sensu* AZUMA, 1960 *nom. nud.*)

Okezoko-itokake (Ō-kuwagata-itokake)

- Type locality: fishing area 'Okezoko', Tosa bay, southern Shikoku; ± 150 fms.
- Distribution: recorded only from type locality.

**Notes:** the holotype of this species has been retained in a private collection, and the present authors could locate no other confirmed material.

G1885 *V. sakurii* KURODA & HABE in HABE, 1962

(= *Epitonium sakurai* KURODA, MS *sensu* AZUMA, 1960 *nom. nud.*; *V. sawamura* AZUMA *sensu* HABE, 1961-a; OKUTANI, 1964-b; OKUTANI, 1966 *non* AZUMA, 1960, *nom. nud.*; *V. ootanii* AZUMA, 1962-a) Sakurai-itokake (= Sawamura-itokake; Ōtani-itokake)

- Type locality: off Cape Ashizuri, southwestern Shikoku;

100-200 m.

- Distribution: Suruga bay and westwards, Sagami bay, off Kii peninsula, southern Shikoku.
- Habitat: 100-300 m., sandy mud.

**Notes:** see HASEGAWA & SAITŌ (1995: 38).

G1886 *V. liliputana* (A. ADAMS, 1861-h)

Kobito-itokake

- Type locality: 'Sea of Japan'.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5; Korea.
- Habitat: 50-200 m., sand.
- Original genus: *Scala*.

□ Genus *Lamelliscala* BOURY, 1909

Type species: *Scalaria fasciata* SOWERBY II, 1844

G1887 *L. fasciata* (SOWERBY II, 1844-a)

(= *Scalaria austrocaledonica* MONTROUZIER, 1859)  
Yōraku-itokake

- Type locality: '*Catanauan, pr. Tayabas, ins. Luzon*' (Luzon, Philippines); 'Found in sandy mud at eight to ten fathoms'.
- Distribution: Amami Ōshima and southwards, ECP3-ECP2, P2; Philippines, New Caledonia, Australia.
- Habitat: 10-50 m., fine sand.
- Original genus: *Scalaria*.

G1888 *L. marmorata* (SOWERBY II, 1844-a)

Murakumo-itokake (= Māburu-itokake)

- Type locality: 'India'. Sowerby added, however: 'We have no information as to the locality of this species....Mr. Cuming's collection'.
- Distribution: Ogasawara islands (FUKUDA, 1995), Amami Ōshima and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific to Fiji, Australia.
- Habitat: 10-30 m., sand.
- Original genus: *Scalaria*.

G1889 *L. mariei* (CROSSE, 1871-b)

Kurifu-itokake (= Ami-moyō-itokake)

- Type locality: New Caledonia.
- Distribution: 'Ryūkyū' (SHIKAMA & HORIKOSHI, 1963), ECP2, P2; Philippines, New Caledonia.
- Original genus: *Scalaria*.

□ Genus *Turbiniscala* BOURY, 1909

Type species: *Scala (Turbiniscala) souverbiei* BOURY, 1909

G1890 *T. replicata* (SOWERBY II, 1844-a)

Hasu-itokake

- Type locality: '*ins. Lord Hood's*' (Lord Hood's island, probably Marutea: 21° 30' S., 135° 33' W., Pacific Ocean); 'Found on coral reefs'.

- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Mishima, J1), EC5, ECP4-ECP2, P2; Philippines, Indo-western Pacific, Australia.
- Habitat: 10-50 m., fine sand.

□ Genus *Acutiscala* BOURY, 1909

Type species: *Scalaria philippinarum* SOWERBY II, 1844 (o. d.)

G1891 *A. philippinarum* (SOWERBY II, 1844-a)

Kumori-shinobu-gai

- Type locality: '*Catanauan, pr. Tayabas, ins. Luzon, Philippinarum...*' (Luzon, Philippines) '*...et Amboyna*' (Ambon island, Indonesia). 'Found in sandy mud at eight to ten fathoms'.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, Indo-western Pacific to Australia.
- Original genus: *Scalaria*.

G1892 *A. conjunctum* (YOKOYAMA, 1922)

Tsuzure-shinobu

- Type locality: Tega, Shonan-cho, Chiba prefecture, central Honshū (fossil).
- Distribution: northeastern Honshū (southern Iwate prefecture), northern Japan Sea (Noshiro peninsula, Akita prefecture).
- Original genus: *Scalaria*.

□ Genus *Cycloscala* DALL, 1889

Type species: *Scala (Cycloscala) dunkeriana* DALL, 1889 (mt.)

G1893 *C. okezoko* HABE, 1961-a

Namakura-itokake

- Type locality: off Cape Ashizuri, southwestern Shikoku; ± 200 m.
- Distribution: Bōsō peninsula and southwards, P7-P5, Tosa bay.
- Habitat: 100-200 m., sand.

**Notes:** not to be confused with *Viciniscala okezoko*

AZUMA, 1962-a (no. G1884).

□ Genus *Solvaclathrus* IREDALE, 1936

Type species: *Solvaclathrus jacobiscala* IREDALE, 1936 (o. d.)

G1894 *S. hyalinum* (SOWERBY II, 1844-a)

Kurui-itokake

- Type locality: '*Ins. Catanauan et Batangas, ins. Luzon, Philippinarum*' (Luzon, Philippines); 'Found in sandy mud at eight to ten fathoms'.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Singapore.
- Habitat: 10-50 m., sand.

- Original genus: *Scalaria*.

G1895 *S. solutus* (A. ADAMS, 1862-c)

Makitoke-itokake

- Type locality: 'Port Lindsay, 15 fms'.
- Distribution: Shizuoka prefecture (Heda) and southwards, P6-P5, EC5.
- Habitat: 20-50 m., sand.
- Original genus: *Scala*.

G1896 *S. crenulatum dragonella* (KURODA, 1960)

(= *Epitonium crenulatum* PEASE *sensu* KURODA & HABE, 1952-a; *E. (Solvacathrus) crenulatum var. sensu* KURODA, 1960)

Tatsunoko-itokake

- Type locality: Okinawa.
- Distribution: Amami Ōshima and southwards, ECP3-ECP2, P2.
- Habitat: 10-30 m., sand.
- Original genus: *Epitonium*.

□ Genus *Nystiella* CLENCH & TURNER, 1952

Type species: *Epitonium opalium* DALL, 1927 (o. d.)

G1897 *N. hiranoi* SHIKAMA, 1962-a

Hirano-itokake

- Type locality: 'east of Chōshi' (Chiba prefecture, central Honshū); 250-260 fms.
- Distribution: off Chōshi and northwards, P8-P9.
- Habitat: 250-500 m.

□ Genus *Hirtoscala* MONTEROSATO, 1890

Type species: *Scalaria cantrainei* WEINKAUFF, 1866 (= *Foveoscala* BOURY, 1909; *Pudentiscala* IREDALE, 1936)

G1898 *H. pyramidale* (SOWERBY II, 1844-a)

Tōgata-itokake

- Type locality: '*Ins. Caminguing, Philippinarum*' (Caminguin island, northern Mindanao, Philippines); 'Taken in sandy mud at thirty fathoms'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, EC5, ECP4-ECP2, P2; Korea (Namhae island), Philippines, China, western Pacific to Fiji.
- Habitat: 10-30 m., sand.
- Original genus: *Scalaria*.

□ Genus *Laeviscala* BOURY, 1909

Type species: *Scalaria subauriculata* SOUVERBIE, 1866 (o. d.)

G1899 *L. angusta* (DUNKER, 1861-b)

Shinobu-gai (= Kohasu-itokake)

- Type locality: Dejima, Nagasaki City, western Kyūshū.
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2; Korea.

- Habitat: 5-30 m., fine sand.

- Original genus: *Scalaria*.

G1900 *L. optabilis* (A. ADAMS, 1861-h)

- Type locality: Mishima (Japan Sea), 63 fms.
- Distribution: 'Japan Sea, 35° N.' (KURODA & HABE, 1952-a); type locality.
- Original genus: *Scala*.

□ Genus *Glabriscala* BOURY, 1909

Type species: *Scala glabrata* HINDS, 1844 (o. d.)

G1901 *G. stigmatica* (PILSBRY, 1911)

(= *Scalaria maculosa* YOKOYAMA, 1922)

Cha-madara-itokake

- Type locality: Fukura, Awaji island, eastern Seto inland sea.
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5, Korea (CHOE, 1992).
- Habitat: 10-50 m., sand.
- Original genus: *Scalaria*.

G1902 *G. hayashii* HABE, 1961-a

Oboro-itokake

- Type locality: off Isshiki, Aichi prefecture, central Honshū.
- Distribution: Enshū-nada (Shizuoka prefecture) and southwards, Kii peninsula (off Cape Shio).
- Habitat: 100-300 m., sand.

**Notes:** genus given in original description as '*Glabiscala*', *err. pro Glabri-*.

□ Genus *Globiscala* BOURY, 1909

Type species: *Scalaria bullata* SOWERBY II, 1844 (o. d.)

G1903 *G. bullatum* (SOWERBY II, 1844-a)

(= *Scala (Globiscala) papyracea* BOURY, 1912; *Epitonium (Globiscala) woolacottae* KERSLAKE, 1958; *G. kashiwajimensis* AZUMA, 1962-a)

Usu-kawa-itokake

- Type locality: 'island of Capul, Philippines, taken on the coral reefs'.
- Distribution: southwestern Shikoku (off Kashiwajima), 'Japan; warm seas from 35° N. to 30° S., from the Red Sea, East Africa, New Guinea, Australia' (DUSHANE, 1988).
- Habitat: under rocks in tidepools; associated with algae and corals (*Fungia* spp).
- Original genus: *Scalaria*.

□ Genus *Graciliscala* BOURY, 1909

Type species: *Scalaria gracilis* SOWERBY II, 1844 (o. d.)

G1904 *G. ishimotoi* MASAHIRO & HABE, 1976

Suna-ginchaku-itokake

- Type locality: off Nada, Gobō City, Wakayama prefecture, central Honshū.

- Distribution: recorded only from type locality.
- Habitat: parasitic on *Zoanthus* spp.

G1905 *G. rimbogai* MASAHIRO & HABA, 1976

Rinbō-itokake

- Type locality: off Nada, Gobō City, Wakayama prefecture, Central Honshū.
- Distribution: Kii peninsula and southwards, P5, EC5 (off Ushibuka, Amakusa island).
- Habitat: 50-150 m., parasitic on *Guildfordia triumphans* (no. G249).

G1906 *G. koshimagani* NAKAYAMA, 1991-a

Koshima-gani-itokake

- Type locality: Kii peninsula, central Honshū.
- Distribution: Kii peninsula.
- Habitat: commensal with *Epizoanthus* spp. on carapace of crab *Leotomithrax edwardsi* (DE HAAN).

G1907 *G. confusa* NAKAYAMA, 1995-a

Tsugi-no-suna-iso-ginchaku-itokake

- Type locality: south off Cape Kirime, Kii peninsula, central Honshū: 34° 30.0' N., 135° 30.0' E., 50-90 m.
- Distribution: recorded only from type locality.
- Habitat: commensal with *Epizoanthus ramosus* CARLGRÉN on surface of *Xenophora exuta* (no. G1149).

□ Genus *Compressiscala* MASAHIRO & HABA, 1976

Type species: *Compressiscala japonica* MASAHIRO & HABA, 1976 (o. d.)

G1908 *C. japonica* MASAHIRO & HABA, 1976

Nedake-itokake

- Type locality: off Esuzaki (cape), Wakayama prefecture, central Honshū; 150 m.
- Distribution: Kii peninsula (off Owase; type locality).
- Habitat: 150-200 m.

□ Genus *Nipponoscala* MASAHIRO & HABA, 1973

Type species: *Nipponoscala aureomaculata* MASAHIRO & HABA, 1973 (o. d.)

G1909 *N. aureomaculata* MASAHIRO & HABA, 1973

Utsukushi-itokake

- Type locality: Enshū-nada off Atsumi peninsula, Aichi prefecture, central Honshū; 80 m.
- Distribution: Enshū-nada to Shima peninsula (off Cape Daiō).
- Habitat: 50-150 m.

□ Genus *Foratiscala* BOURY, 1887

Type species: *Scalaria cerithiformis* WATELET, 1853

G1910 *F. reticulata* (HABA, 1962-a)

Sen'nari-suna-ginchaku-itokake

- Type locality: Shirahama, Wakayama prefecture (Kii peninsula).
- Distribution: recorded only from type locality.

- Habitat: attached to *Dentitheca habereri* (STECHOW) with *Parazoanthus gracilis* (LWOWSKY, 1913).

- Original genus: *Akibumia*.

□ Genus *Spiniscala* BOURY, 1909

Type species: *Scalaria frondicula* WOOD, 1842 (o. d.) (= *Eburniscala* BOURY, 1909)

G1911 *S. aculeata* (SOWERBY II, 1844-a)

Toge-shinobu-gai

- Type locality: 'Hong Kong, China, et Macassar, Malacca, Amboyna (Indonesia) ... ad Bais, ins. Negros et at Catanauan, ins. Luzon (Philippines)'; 'Some specimens were taken at Bais, isle of Negros, in coarse sand at six fathoms'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2; Philippines, southeast Asia.
- Habitat: 10-140 m., sand.
- Original genus: *Scalaria*.

G1912 *S. tenuicostata* (SOWERBY II, 1844 in 1842-87)

Usu-hire-itokake

- Type locality: Luzon, Philippines.
- Distribution: Sagami bay (KURODA *et al.*, 1971), Suruga bay; Philippines.
- Original genus: *Scalaria*.

**Note:** possibly a junior homonym of *Scalaria tenuicostata* MICHAUD, 1829 (Bull. H. N. Soc. Linn. Bordeaux III (18): 260).

G1913 *S. vigintifoliata* MASAHIRO, KURODA & HABA in KURODA *et al.*, 1971

(= *Mazescala casta* HABA, 1961 *non* SOWERBY II, 1844)

Hatae-itokake

- Type locality: Sagami bay, central Honshū.
- Distribution: Sagami bay and southwards, P6-P5, western and southern Kyūshū.
- Habitat: intertidal to 20 m., sand.

G1914 *S. japonica* (DUNKER, 1861-b)

(= *Scalaria pumila* SOWERBY, 1873)

Hime-neji-gai

- Type locality: Japan (from article title).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Seto inland sea (Nijigahama beach, Yamaguchi prefecture TSUCHIDA, 1994-c), Ogasawara islands (FUKUDA, 1993), Japan Sea (Oga peninsula, J3-J1), EC5; Korea.
- Habitat: intertidal on rocks, parasitic on *Sagartiomorpha* spp.
- Original genus: *Scalaria*.

**Notes:** the shell known as Naga-hime-neji-gai is normally cited as *Scalaria casta* SOWERBY, 1887 (IWAKAWA,

1900; KURODA & HABE, 1952-a; HABE, 1961) but the present authors have been unable to locate the original description or figure for this taxon.

□ Genus *Cinctiscala* BOURY, 1909

Type species: *Scalaria antillarum* BOURY (o. d.)

G1915 *C. eusculpta* (SOWERBY III, 1903-a)

(= *Scala kamakurana* PILSBRY, 1911)

Tateyoko-itokake

• Type locality: Hirado island, Nagasaki prefecture, western Kyūshū.

• Distribution: Bōsō peninsula and southwards, P7-P5, western Seto inland sea (Nijigahama beach, Yamaguchi prefecture TSUCHIDA, 1994-c), Japan Sea (Oga peninsula, J3-J1), EC5.

• Habitat: 10-50 m., sand.

• Original genus: *Scalaria*.

G1916 *C. sagamiensis sagamiensis* (PILSBRY, 1911)

Sagami-itokake

• Type locality: Kamakura, eastern Sagami bay, central Honshū.

• Distribution: northeastern Honshū (Iwate prefecture), P9-P5, western Seto inland sea (Nijigahama beach, Yamaguchi prefecture TSUCHIDA, 1994-c), Japan Sea (central Niigata prefecture, J3-J1), EC5.

• Habitat: 5-115 m., sand.

• Original genus: *Scala*.

G1917 *C. sagamiensis azumanum* (YOKOYAMA, 1922)

Azuma-itokake

• Type locality: Shitō, Ichihara City, Chiba prefecture, central Honshū (fossil).

• Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay), off Bōsō peninsula, Sagami bay.

• Habitat: 50-120 m.

• Original genus: *Scalaria*.

G1918 *C. eximiella* MASAHITO, KURODA & HABE in KURODA *et al.*, 1971

Hoso-sagami-itokake

• Type locality: Sagami bay, central Honshū.

• Distribution: southern Iwate prefecture (Ōtsuchi bay), P9-P5, Japan Sea (Noto peninsula, J2-J1), EC5.

• Habitat: 20-115 m., sand.

G1919 *C. yamakawai* (YOKOYAMA, 1922)

Yamakawa-itokake

• Type locality: Ōtake, Narita, Chiba prefecture, central Honshū (fossil).

• Distribution: off Chōshi (Chiba prefecture, central Honshū), Ago bay (Mie prefecture), 7-30 m., Japan Sea (southwest off Sado island, 101-108 m., sand).

• Original genus: *Scalaria*.

G1920 *C. kazusense* (YOKOYAMA, 1922)

Kazusa-itokake

• Type locality: Shitō, Ichihara City, Chiba prefecture, central Honshū (fossil).

• Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay), off Chōshi (Chiba prefecture, central Honshū).

• Original genus: *Scalaria*.

G1921 *C. pallidizonata* MASAHITO, KURODA & HABE in KURODA *et al.*, 1971

Usu-obi-itokake

• Type locality: Sagami bay, central Honshū.

• Distribution: recorded only from type locality.

□ Genus *Pupiscala* MASAHITO, KURODA & HABE in KURODA *et al.*, 1971

Type species: *Pupiscala pupiformis* MASAHITO, KURODA & HABE, 1971 (mt.)

G1922 *P. pupiformis* MASAHITO, KURODA & HABE in KURODA *et al.*, 1971

Kase-itokake

• Type locality: Sagami bay, central Honshū.

• Distribution: recorded only from type locality.

G1923 *P. actinariophila* MASAHITO & HABE, 1976

Iso-ginchaku-itokake

• Type locality: Sagami bay, central Honshū.

• Distribution: Sagami bay.

• Habitat: attached to the surface of *Sagartiomorpha* spp.

□ Genus *Depressiscala* BOURY, 1909

Type species: *Scalaria aurita* SOWERBY II, 1844 (o. d.)

G1924 *D. aurita* (SOWERBY II, 1844-a)

Odamaki

• Type locality: 'from the coast of Coromandel' (southeastern India).

• Distribution: Bōsō peninsula and southwards, P7-P5, western Seto inland sea (Nijigahama beach, Yamaguchi prefecture TSUCHIDA, 1994-c), Japan Sea (Sado island, J3-J1), EC5, ECP4-ECP2, P2; Cheju island (Korea), Philippines, Indo-western Pacific, Australia.

• Habitat: intertidal to 10 m., sand.

• Original genus: *Scalaria*.

□ Genus *Papyriscala* BOURY, 1909

Type species: *Scalaria latifasciata* SOWERBY II, 1878 (o. d.)

(= *Limiscala* BOURY, 1909)

G1925 *P. yokoyamai* (SUZUKI & ICHIKAWA, 1936)

(= *Scala lyra* YOKOYAMA, 1927 non SOWERBY, 1874; *P. bifasciata* KIRA & HABE in KIRA, 1962)

Sekimori-gai

• Type locality: Takai, Tateyama City, Chiba prefecture,



central Honshū (fossil).

- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Sado island, J3-J1), EC5.
- Habitat: subtidal to 20 m., fine sand.
- Original genus: '*Epitonium (Lineoscala?)*'

G1926 *P. harimaense* MAKIYAMA, 1924-a

Harima-sekimori

- Type locality: Harima (Seto inland sea; fossil).
- Distribution: Kii peninsula and southwards, P5, Seto inland sea, Japan Sea (Wakasa bay, J2-J1), EC5.
- Habitat: intertidal to 20 m., fine sand.

**Notes:** the shell known as Kureha-gai is known from the Bōsō peninsula and southwards, P7-P5, western Seto inland sea (Nijigahama beach, Yamaguchi prefecture TSUCHIDA, 1994-c), Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5. It is normally cited as *Scalaria latifasciata* SOWERBY, 1878, but the present authors have been unable to locate the original description or figure for this taxon.

G1927 *P. tenuilirata* (SOWERBY II, 1874)

(= *P. castanea* HABE, 1961-a)

Usu-murasaki-kureha-gai (= Cha-iro-kureha-gai)

- Type locality: Japan.
- Distribution: Ogasawara islands (FUKUDA, 1993), Bōsō peninsula and southwards, P7-P5, Japan Sea (Wakasa bay, J2-J1), EC5.
- Original genus: *Scalaria*.

□ Genus *Sagamiscala* MASAHIRO, KURODA & HABE in KURODA *et al.*, 1971

Type species: *Sagamiscala globosa* MASAHIRO, KURODA & HABE, 1971 (o. d.)

G1928 *S. globosa* MASAHIRO, KURODA & HABE in KURODA *et al.*, 1971

Fukuro-itokake-gai

- Type locality: Sagami bay, central Honshū.
- Distribution: Sagami bay and westwards, Enshū-nada, Mie prefecture (off Cape Daiō, Shima peninsula).
- Habitat: 50-200 m., sand.

□ Genus *Teramachiacirsa* KURODA & ITŌ, 1961-a

Type species: *Teramachiacirsa annulata* KURODA & ITŌ, 1961 (o. d.)

G1929 *T. annulata* KURODA & ITŌ, 1961-a

(= *T. annulata* KURODA, MS *sensu* AZUMA, 1960 *nom. nud.*)

Teramachi-itokake

- Type locality: Tosa bay, southern Shikoku.
- Distribution: eastern Kii peninsula, Tosa bay.
- Habitat: 300-400 m.

□ Genus *Kurodacirsa* MASAHIRO & HABE, 1975

Type species: *Kurodacirsa lotus* MASAHIRO & HABE, 1975 (o. d.)

G1930 *K. lotus* MASAHIRO & HABE, 1975

Hasunomi-itokake

- Type locality: Enshū-nada off Shizuoka prefecture, central Honshū.
- Distribution: Sagami bay to Wakayama prefecture.
- Habitat: attached to the surface of *Sagartiomorpha* spp.

□ Genus *Alexania* STRAND, 1928

Type species: *Alexandria natalensis* TOMLIN, 1926 (o. d.)

(= *Alexandria* TOMLIN, 1926 *non* PFEIFFER, 1881;

*Tomlinula* STRAND, 1932; *Habea* KURODA, 1943-a;

*Stenacme* PILSBRY, 1945)

G1931 *A. inazawai* (KURODA, 1943-a)

Inazawa-habe-gai

- Type locality: Kamakura, eastern Sagami bay, central Honshū.
- Distribution: Sagami bay and southwards, P11, Ogasawara islands, P6-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, Seto inland sea.
- Habitat: intertidal on rocks, parasitic on *Haliplanella lineata* (VERRILL).
- Original genus: *Habea*.

G1932 *A. callizona* (HABE, 1961-c)

Kuro-obi-habe-gai

- Type locality: Kashiwajima, southwestern Shikoku.
- Distribution: Bōsō peninsula and southwards, P7-P5, western Kyūshū.
- Habitat: intertidal on rocks.
- Original genus: *Habea*.

□ Genus *Minabescala* NAKAYAMA, 1994

Type species: *Minabescala littorinoides* NAKAYAMA, 1994 (o. d.)

G1933 *M. littorinoides* NAKAYAMA, 1994

Minabe-itokake-gai

- Type locality: off Cape Kirime, Kii peninsula, central Honshū: 34° 00' N., 134° 48' E., 90-120 m.
- Distribution: recorded only from type locality.
- Habitat: commensal with *Anthozoan* (family Hormathiidae) attached to carapace of crab *Leomithrax edwardsi* (DE HAAN, 1839).

Family ACLIDIDAE G. O. SARS, 1878

□ Genus *Aclis* LOVÉN, 1846

Type species: *Alvania supranitida* WOOD, 1842

(= *Cyclonidea* LASERON, 1956; *Menippe* JEFFREYS,

1867 *non* DE HAAN, 1833; *Pherusa* JEFFREYS, 1869

*non* OKEN, 1807; *Pherusina* NORMAN, 1888;

*Martelliella* DAUTZENBERG & DUROUCHOUX, 1914;

*Eusetia* COTTON, 1944; *Schwangelia* BARTSCH, 1947)

G1934 *A. angulifera* (YOKOYAMA, 1922)

Senmai-dōshi-gai

- Type locality: Semata, Ichihara City, Chiba prefecture, central Honshū (fossil).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, Japan Sea (Sado island, J3-J1), EC5.
- Habitat: 40-200 m., sand.
- Original genus: *Turbonilla* (*Careliopsis*).

G1935 *A. crystallina* A. ADAMS, 1861-a

Hoso-senmai-dōshi-gai

- Type locality: Tsushima, western Japan Sea; 16 fms.
- Distribution: Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5.
- Habitat: 10-50 m., sandy mud.

G1936 *A. cingulata* A. ADAMS, 1860-f

- Type locality: off Mishima, Japan Sea; 63 fms.
- Distribution: recorded only from type locality.

G1937 *A. fulgida* A. ADAMS, 1861-a

- Type locality: Tsushima, western Japan Sea; 16 fms.
- Distribution: recorded only from type locality.

G1938 *A. labiata* A. ADAMS, 1860-f

- Type locality: off Mishima, Japan Sea; 63 fms.
- Distribution: recorded only from type locality.

G1939 *A. lirata* A. ADAMS, 1860-f

- Type locality: off Mishima, Japan Sea; 63 fms.
- Distribution: recorded only from type locality.

G1940 *A. loveniana* A. ADAMS, 1861-a

- Type locality: Port Hamilton (Kyobunto island, near Gehaku lighthouse, southern Korea), 7 fms.
- Distribution: type locality; 'Pacific coast, 33° N.' (KURODA & HABE, 1952-a).

G1941 *A. sulcata* A. ADAMS, 1860-f

- Type locality: off Mishima, Japan Sea, 63 fms.
- Distribution: recorded only from type locality.

Superfamily EULIMOIDEA H. & A. ADAMS, 1854 in 1853-58

Family EULIMIDAE H. & A. ADAMS, 1854 in 1853-58

(= PELSENEERIDAE KÖHLER & VANEY, 1908; STILIFERIDAE ROSEN, 1910; ASTEROPHILIDAE THIELE, 1925; PAEDOPHOROPODIDAE IVANOV, 1933; THYCIDAE WARÉN, 1980)  
(Refs.: Kuroda & Habe, 1950-d; Warén, 1983)

□ Genus *Pyramidelloides* NEVILL, 1885

Type species: *Rissoa miranda* A. ADAMS, 1861 (= *Isselia auct. non* BOURGUIGNAT, 1877)  
Subgenus *Pyramidelloides* s. str.

G1942 *P. (P.) miranda* (A. ADAMS, 1861-d)

Reishi-tsubo

- Type locality: off Mishima, Japan Sea; 63 fms.
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands (Chichijima FUKUDA, 1993), P7-P5, Japan Sea (Sado island, J3-J1), EC5, ECP4-ECP2.
- Habitat: intertidal to 150 m., sand.
- Original genus: *Rissoa*.

G1943 *P. (P.) suta* (PILSBRY, 1918-a)

(= *Odostomia lestonae* PILSBRY, 1918-a)

- Type locality: Hawaiian islands.
- Distribution: Ogasawara islands (Iōjima KOIZUMI, 1993); Hawaii.
- Original genus: *Odostomia* (*Cyclostomia*).

G1944 *P. (P.) pacifica* LASERON, 1956-a

(= *P. miranda sensu* KAY, 1979)

Yase-reishi-tsubo

- Type locality: Darwin, northern Australia.
- Distribution: Amami Ōshima (EKAWA, 1993-a); Hawaii, Australia.

G1945 *P. (P.) angusta* (HEDLEY, 1898-a)

(= *Rissoina gracilis* PEASE, 1860-b)

Yasegata-chōji-gai

- Type locality: New Caledonia.
- Distribution: Sagami bay (off Ō-ura), Kii peninsula (Susami; Kushimoto), Amami-Ōshima (Kasari) (EKAWA, 1991-a), Okinawa; New Caledonia, Hawaii.
- Original genus: *Rissoina*.

G1946 *P. (P.) angulata* (JICKELI, 1882)

Hari-tsubo

- Type locality: Red Sea.
- Distribution: Amami Ōshima (Seto-uchi district EKAWA, 1993-a); Red Sea.
- Original genus: *Rissoina*.

G1947 *P. (P.) tosaensis* HABE, 1961-c

Tōgata-chōji-gai

- Type locality: Tosa bay, southern Shikoku; ± 100 m.
- Distribution: Tosa bay.
- Habitat: 100 m., coarse sand and stones.

Subgenus *Chrystella* LASERON, 1956-a

Type species: *Chrystella islandica* LASERON, 1956 (o. d.)

G1948 *P. (C.) kajiyamai* (HABE, 1961-d)

Kurin-tsubo

- Type locality: Kakeroma island (Amami islands).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2.
- Habitat: intertidal to 10 m., coarse sand and stones.
- Original genus: *Chrystella*.

□ Genus *Palisadia* LASERON, 1956-a

Type species: *Palisadia subulata* LASERON, 1956 (o. d.)

G1949 *Pa. subulata* LASERON, 1956-a

- Type locality: Christmas island, Indian Ocean.
- Distribution: Amami Ōshima; type locality.

□ Genus *Eulima* **RISSO, 1826**

Type species: *Turbo subulatus* DONOVAN (of *Leiostraca*; ICZN pending)

(= *Leiostraca* H. & A. ADAMS, 1853; *Liostraca sensu* COSSMANN, 1921 *err. pro Leio-*; *Subularia* MONTEROSATO, 1884; *Hordeulima* SACCO, 1892; *Sulcosubularia* SACCO, 1892; *Cuspeulima* LASERON, 1955)

G1950 *E. bifascialis* (A. ADAMS, 1863-o)

(= *Eulima ozawai* YOKOYAMA, 1927)

Hana-gōna

- Type locality: Bingo-nada and Suō-nada (central to western Seto inland sea).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Sado island, J3-J1), EC5, East China Sea.
- Habitat: intertidal to 50 m., fine sand.
- Original genus: *Leiostraca*.

G1951 *E. lacca* KURODA & HABE in KURODA *et al.*, 1971

(= *E. lacta sensu* EKAWA, 1991 *err. pro -cca*)

Tsuya-hana-gōna

- Type locality: Sagami bay, central Honshū, 50-200 m.
- Distribution: Kashima-nada and southwards, Sagami bay, Enshū-nada, Japan Sea (Sado island; Wakasa bay).
- Habitat: 50-200 m., sand.

G1952 *E. maria* (A. ADAMS, 1861-e)

(= *E. mariae* auct.)

Shiro-hari-gōna

- Type locality: 'China'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Sado island, J3-J1), EC5, East China Sea.
- Habitat: intertidal to 50 m., on *Holothuroidea* in fine sand.
- Original genus: *Leiostraca*.

G1953 *E. unilineata* ADAMS & REEVE, 1850 in 1848-50

Hito-suji-hari-gōna

- Type locality: 'Sooloo' (Sulu Sea).
- Distribution: Amami Ōshima and southwards, ECP4-ECP2, P2; China, Philippines.
- Habitat: intertidal to 10 m., coarse sand and stones.

G1954 *E. uncinata* YOKOYAMA, 1922

Hoso-hari-gōna

- Type locality: Ōtake, Narita, Chiba prefecture, central Honshū (fossil).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5.
- Habitat: intertidal to 20 m., sand.

G1955 *E. crassula* (A. ADAMS, 1863-o)

- Type locality: 'O-sima' (Kii-Ōshima, Kii peninsula, central Honshū).
- Distribution: Kii peninsula and westwards, P5, EC5.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Leiostraca*.

G1956 *E. interrupta* (A. ADAMS, 1863-o)

- Type locality: 'O-sima' (Kii-Ōshima, Kii peninsula, central Honshū).
- Distribution: recorded only from type locality.
- Original genus: *Leiostraca*.

G1957 *E. pura* (A. ADAMS, 1861-b)

- Type locality: Tsushima, 26 fms., and 'Mino-Sima' (Mishima, Japan Sea), 63 fms.
- Distribution: Ise bay, Kii peninsula, Japan Sea (off northern Yamaguchi prefecture).
- Habitat: parasitic on *Laganum*.
- Original genus: *Leiostraca*.

G1958 *E. nitidula* A. ADAMS in H. & A. ADAMS, 1853 in 1853-58

(= *E. adamsi* SOWERBY, 1866 in 1865-78)

- Type locality: Singapore, coarse gravel & sand, 12 fms.
- Distribution: 'Pacific coast, 33° N., Japan Sea coast 42° N.' (KURODA & HABE, 1952-a).

G1959 *E. ariel* (A. ADAMS, 1861-e)

- Type locality: 'Shantung (Kalahai)' (Shandong peninsula, China).
- Distribution: Seto inland sea; 'west coast of Korea 34°-37° N.' (KURODA & HABE, 1952-a).
- Original genus: *Leiostraca*.

G1960 *E. balteata* (A. ADAMS, 1863-o)

- Type locality: 'Uruga' (Uruga, eastern Miura peninsula, mouth of Tōkyō bay).
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Leiostraca*.

G1961 *E. bizona* (A. ADAMS, 1863-o)

- Type locality: 'Gotto' (Gotō islands, off western Kyūshū), 48 fms.
- Distribution: 'Pacific coast at 33° N.' (KURODA & HABE, 1952-a).
- Original genus: *Leiostraca*.

G1962 *E. cinctella* (A. ADAMS, 1863-o)

- Type locality: 'Seto-Uchi (Mososeki)' (Moji, Fukuoka prefecture, western Seto inland sea).
- Distribution: 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a).
- Original genus: *Leiostraca*.

G1963 *E. cingenda* (A. ADAMS, 1863-o)

- Type locality: 'Yobuko' (Saga prefecture, northern Kyūshū).
  - Distribution: 'Pacific coast at 33° N.' (KURODA & HABE, 1952-a).
  - Original genus: *Leiostraca*.
- G1964 *E. circumcineta* (A. ADAMS, 1863-o)
- Type locality: 'Seto-Uchi (Akasi)' (Akashi, Hyōgo prefecture, eastern Seto inland sea).
  - Distribution: recorded only from type locality.
  - Original genus: *Leiostraca*.
- G1965 *E. clavella* (A. ADAMS, 1861-b)
- Type locality: 'Sado' (Sado island, Japan Sea), 30 fms.
  - Distribution: recorded only from type locality.
  - Original genus: *Leiostraca*.
- G1966 *E. conspurcata* (A. ADAMS, 1863-o)
- Type locality: 'Tano-Sima' (possibly Takashima, Tateyama bay, Bōsō peninsula).
  - Distribution: recorded only from type locality.
  - Original genus: *Leiostraca*.
- G1967 *E. crystallina* (A. ADAMS, 1863-o)
- Type locality: 'Yobuko' (Saga prefecture, northern Kyūshū).
  - Distribution: recorded only from type locality.
  - Original genus: *Leiostraca*.
- G1968 *E. exigua* (A. ADAMS, 1863-o)
- Type locality: 'Seto-Uchi (Akasi)' (Akashi, Hyōgo prefecture, eastern Seto inland sea).
  - Distribution: recorded only from type locality.
  - Original genus: *Leiostraca*.
- G1969 *E. gracilentia* (A. ADAMS, 1863-o)
- Type locality: 'Uruga' (Uruga, eastern Miura peninsula, mouth of Tōkyō bay).
  - Distribution: recorded only from type locality.
  - Original genus: *Leiostraca*.
- G1970 *E. hastata* (A. ADAMS, 1863-o)
- Type locality: 'Gotto' (Gotō islands, off western Kyūshū), 48 fms.
  - Distribution: recorded only from type locality.
  - Original genus: *Leiostraca*.
- G1971 *E. humilis* (A. ADAMS, 1863-o)
- Type locality: 'Uruga' (Uruga, eastern Miura peninsula, mouth of Tōkyō bay).
  - Distribution: recorded only from type locality.
  - Original genus: *Leiostraca*.
- G1972 *E. inquinata* (A. ADAMS, 1863-o)
- Type locality: 'Yobuko' (Saga prefecture, northern Kyūshū).
  - Distribution: recorded only from type locality.
  - Original genus: *Leiostraca*.
- G1973 *E. labiata* (A. ADAMS, 1861-b)
- Type locality: 'Mino-Sima' (Mishima, Japan Sea), 63 fms.
  - Distribution: recorded only from type locality.
  - Original genus: *Leiostraca*.
- G1974 *E. lanceata* (A. ADAMS, 1861-b)
- Type locality: Korea strait, 46 fms.
  - Distribution: recorded only from type locality.
  - Original genus: *Leiostraca*.
- G1975 *E. leachii* (A. ADAMS, 1861-b)
- Type locality: 'Mino-Sima' (Mishima, Japan Sea), 63 fms.
  - Distribution: recorded only from type locality.
  - Original genus: *Leiostraca*.
- G1976 *E. lepida* (A. ADAMS, 1863-o)
- Type locality: Yobuko (Saga prefecture, northern Kyūshū) and 'Seto-uchi' (Seto inland sea).
  - Distribution: recorded only from type localities.
  - Original genus: *Leiostraca*.
- G1977 *E. metulina* (A. ADAMS, 1863-o)
- Type locality: 'Seto-Uchi (Akasi)' (Akashi, Hyōgo prefecture, eastern Seto inland sea).
  - Distribution: recorded only from type locality.
  - Original genus: *Leiostraca*.
- G1978 *E. miranda* (A. ADAMS, 1863-o)
- Type locality: Yobuko (Saga prefecture, northern Kyūshū).
  - Distribution: recorded only from type locality.
  - Original genus: *Leiostraca*.
- G1979 *E. nana* (A. ADAMS, 1863-o)
- Type locality: Yobuko (Saga prefecture, northern Kyūshū).
  - Distribution: recorded only from type locality.
  - Original genus: *Leiostraca*.
- G1980 *E. nixa* (A. ADAMS, 1861-b)
- Type locality: 'Mino-Sima' (Mishima, Japan Sea), 63 fms.
  - Distribution: recorded only from type locality.
  - Original genus: *Leiostraca*.
- G1981 *E. paxillus* (A. ADAMS, 1861-b)
- Type locality: 'Mino-Sima' (Mishima, Japan Sea), 63 fms.
  - Distribution: recorded only from type locality.
  - Original genus: *Leiostraca*.
- G1982 *E. picturata* (A. ADAMS, 1863-o)
- Type locality: 'Gotto' (Gotō islands, off western Kyūshū), 48 fms.
  - Distribution: recorded only from type locality.
  - Original genus: *Leiostraca*.
- G1983 *E. pistillum* (A. ADAMS, 1863-o)
- Type locality: 'Seto-Uchi (Harima-nada)' (eastern Seto inland sea).

- Distribution: recorded only from type locality.
- Original genus: *Leiostraca*.

G1984 *E. pumila* (A. ADAMS, 1863-o)

- Type locality: 'Uraga' (Uraga, eastern Miura peninsula, mouth of Tōkyō bay).
- Distribution: recorded only from type locality.
- Original genus: *Leiostraca*.

G1985 *E. pusilla* (A. ADAMS, 1863-o)

- Type locality: 'Seto-Uchi (Mososeki)' (Moji, Fukuoka prefecture, western Seto inland sea).
- Distribution: recorded only from type locality.
- Original genus: *Leiostraca*.

G1986 *E. pusio* (A. ADAMS, 1863-o)

- Type locality: Yobuko (Saga prefecture, northern Kyūshū).
- Distribution: recorded only from type locality.
- Original genus: *Leiostraca*.

G1987 *E. pygmaea* (A. ADAMS, 1863-o)

- Type locality: 'Seto-Uchi (Mososeki)' (Moji, Fukuoka prefecture, western Seto inland sea).
- Distribution: recorded only from type locality.
- Original genus: *Leiostraca*.

G1988 *E. scitula* (A. ADAMS, 1863-o)

- Type locality: 'Seto-Uchi (Mososeki)' (Moji, Fukuoka prefecture, western Seto inland sea).
- Distribution: recorded only from type locality.
- Original genus: *Leiostraca*.

G1989 *E. spiculum* (A. ADAMS, 1861-b)

- Type locality: 'Mino-Sima' (Mishima, Japan Sea), 63 fms.
- Distribution: recorded only from type locality.
- Original genus: *Leiostraca*.

G1990 *E. spreta* (A. ADAMS, 1863-o)

- Type locality: Yobuko (Saga prefecture, northern Kyūshū).
- Distribution: recorded only from type locality.
- Original genus: *Leiostraca*.

G1991 *E. subulina* (A. ADAMS, 1863-o)

- Type locality: 'Gotto' (Gotō islands, off western Kyūshū), 48 fms.
- Distribution: recorded only from type locality.
- Original genus: *Leiostraca*.

G1992 *E. taeniata* (A. ADAMS, 1863-o)

- Type locality: 'Seto-Uchi (Akasi)' (Akashi, Hyōgo prefecture, western Seto inland sea).
- Distribution: recorded only from type locality.
- Original genus: *Leiostraca*.

G1993 *E. tantilla* (A. ADAMS, 1861-o)

- Type locality: 'Seto-Uchi (Akasi, Mososeki)' (Akashi,

Hyōgo prefecture, eastern Seto inland sea and Moji, Fukuoka prefecture, western Seto inland sea).

- Distribution: recorded only from type localities.
- Original genus: *Leiostraca*.

G1994 *E. turgidula* (A. ADAMS, 1861-b)

- Type locality: off Tsushima, western Japan Sea; 16 fms.
- Distribution: recorded only from type locality.
- Original genus: *Leiostraca*.

G1995 *E. kawamurai* HABE, 1961-c

- Kawamura-hana-gōna
- Type locality: Kakeroma island (Amami islands).
  - Distribution: Amami islands and southwards, Okinawa islands.
  - Habitat: intertidal to 20 m., sand.

□ Genus *Eulimitra* LASERON, 1955

Type species: *Eulimitra vittata* LASERON, 1955 (o. d.)

G1996 *Eu. metcalfei* (A. ADAMS in H. & A. ADAMS, 1853-58)

(= *Eu. peasei sensu* FUKUDA, 1993 non TRYON, 1886) Ukeguchi-hana-gōna (= Hotaru-kuri-mushi)

- Type locality: none designated.
- Distribution: Ogasawara islands (Hahajima FUKUDA, 1993) and southwards, P11, Suruga bay and westwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Hawaii.
- Habitat: parasitic on *Holothuria atra*.
- Original genus: *Leiostraca*.

G1997 *Eu. distorta* (PEASE, 1860-b)

- Kuten-hana-gōna
- Type locality: Hawaii.
  - Distribution: Amami islands and southwards, Okinawa islands, P2; Philippines, Hawaii.
  - Habitat: intertidal to 20 m., sand, host unknown.
  - Original genus: *Leiostraca*.

G1998 *Eu. vincta* (A. ADAMS, 1863-o)

- Hime-hana-gōna
- Type locality: 'Bingo-nada; Harima-nada' (Seto inland sea).
  - Distribution: Kii peninsula and southwards, P5, Seto inland sea, Japan Sea (off Tsushima, J1), EC5, ECP4-ECP2.
  - Habitat: intertidal to 10 m., sand, host unknown.
  - Original genus: *Leiostraca*.

G1999 *Eu. samoensis* (CROSSE, 1867-a)

- Hoshifu-hana-gōna
- Type locality: western Samoa.
  - Distribution: Amami islands and southwards, Okinawa islands; Samoa.
  - Habitat: intertidal to 10 m., sand, host unknown.

□ Genus *Melanella* BOWDICH, 1822

Type species: *Melanella dufresnii* BOWDICH, 1822  
(= *Balcis* LEACH, 1847; *Eulimaustra* LASERON, 1955)

G2000 *M. martinii* (A. ADAMS, 1854-i)

(= *Balcis martini* auct.)

Setomono-gai (= Shiributo-kurimushi)

- Type locality: 'China Sea'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2.
- Habitat: intertidal to 30 m., sand.
- Original genus: *Eulima*.

G2001 *M. solidula* (ADAMS & REEVE, 1850 in 1848-50)

(= *Eulima opaca* SOWERBY, 1865)

Shiri-ore-setomono-gai (= Hoso-shiroke-kurimushi)

- Type locality: 'China Sea'.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Hawaii.
- Habitat: intertidal to 30 m., sand; attached to *Actinopyga mauritiana*, *Holothuria atra*.
- Original genus: *Eulima*.

G2002 *M. acicula* (GOULD, 1849 in 1846-50)

(= *Eulima acicularis* A. ADAMS, 1861-b; *Balcis soliduloides* HABE, 1951-d)

Hoso-setomono-gai (= Hoso-kurimushi-gai)

- Type locality: 'Feejee (Fiji) Islands, in *Holothuria*'.
- Distribution: Ogasawara islands, Amami islands and southwards, ECP3-ECP2, P2; Fiji, Palau.
- Habitat: intertidal, attached to *Holothuria atra*, *H. argus*, *Stichopus chloronotus*.
- Original genus: *Stilifer*.

G2003 *M. cumingii* (A. ADAMS, 1853 in H. & A. ADAMS, 1853-58)

Ō-kurimushi-gai

- Type locality: 'Lord Hood's island' (probably Marutea, 21° 30' S., 135° 33' W.), Pacific Ocean, on *Avicula margaritifera*.
- Distribution: Ogasawara islands (Chichijima; Hahajima; Anijima; Hirashima, FUKUDA, 1993) and southwards, Kii peninsula, P5, EC5, ECP4-ECP2, P2; Philippines.
- Habitat: parasitic on *Avicula margaritifera*, *Actinopyga parvula*.
- Original genus: *Eulima*.

G2004 *M. candida* (MARRAT, 1880)

Ō-setomono-gai (= Osa-setomono-gai)

- Type locality: Taiwan.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Taiwan, Philippines.
- Habitat: intertidal to 30 m., sand; on *Holothuria*.
- Original genus: *Eulima*.

G2005 *M. grandis* (A. ADAMS, 1854 in H. & A.

ADAMS, 1853-58)

Tonosama-kurimushi (= Daiō-kurimushi)

- Type locality: Burias island, Philippines; in coral sand, 7 fms.
- Distribution: Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986) and southwards, P11, Ogasawara islands and westwards, P7-P5, Japan Sea (Wakasa bay, J2-J1), ECP4-ECP2.
- Habitat: 10-50 m., sand.
- Original genus: *Eulima*.

G2006 *M. musta* (YOKOYAMA, 1928)

• Type locality: Uwae, Miyazaki prefecture, southeastern Kyūshū.

- Distribution: Sagami bay and westwards, Suruga bay, Japan Sea (Sado island), eastern and western Kyūshū.
- Habitat: 30-60 m., sand.
- Original genus: *Eulima*.

G2007 *M. robusta* (A. ADAMS, 1861-b)

Ikioi-kurimushi

- Type locality: 'Mino-Sima' (Mishima, Japan Sea), 63 fms.
- Distribution: off Miyagi prefecture and southwards, P8-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2.
- Habitat: in gape of *Astropecten polyacanthus*; in littoral starfish.
- Original genus: *Eulima*.

G2008 *M. curvata* (A. ADAMS, 1861-b)

Magari-kurimushi

- Type locality: 'Mino-Sima' (Mishima, Japan Sea), 63 fms.
- Distribution: recorded only from type locality.
- Original genus: *Eulima*.

G2009 *M. kuronamako* (HABE, 1952-d)

Kuro-namako-yadori-nina

- Type locality: Shirahama, Kii peninsula, central Honshū.
- Distribution: Kii peninsula and southwards, P5, Japan Sea (Wakasa bay, J2-J1), EC5, ECP4-ECP2, Ogasawara islands.
- Habitat: exoparasitic on 'Kuro-namako' (*Holothuria (Mertensiothuria) leucospilota*).
- Original genus: *Balcis*.

G2010 *M. thaanumi* PILSBRY, 1917

(= *Eulima arcuata sensu* SOWERBY, 1865 non C. B. ADAMS, 1849; *M. lunata* PILSBRY, 1917)

Tānamu-setomono-gai

- Type locality: Hilo, Hawaii.
- Distribution: Amami islands and southwards, Okinawa; Taiwan, Hawaii.
- Habitat: intertidal to 10 m., sand.

G2011 *M. lactea* (A. ADAMS, 1854-i)

Shiro-setomono-gai

- Type locality: Ticao island, Philippines; on coral reefs in

sand.

- Distribution: Amami islands and southwards, Okinawa; Philippines.
- Habitat: intertidal to 10 m., sand.
- Original genus: *Eulima*.

G2012 *M. tortuosa* (ADAMS & REEVE, 1850 in 1848-50)

Chū-kurimushi

- Type locality: 'China Seas'.
- Distribution: west off Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986), Japan Sea (Wakasa bay, J2-J1), EC5, ECP4-ECP2.
- Habitat: intertidal to 10 m., sand.
- Original genus: *Eulima*.

G2013 *M. bovicornu* (PILSBRY, 1905)

Hime-setomono-gai (= Tsuno-kurimushi)

- Type locality: Hahajima, Ogasawara islands.
- Distribution: Kii peninsula and southwards, P11, Ogasawara islands and westwards, P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Eulima*.

G2014 *M. aciculata* (PEASE, 1860-b)

(= *M. kahoolawensis* PILSBRY, 1917)

Shirifuri-setomono-gai (= Shirifuri-kurimushi-gai)

- Type locality: Hawaii.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, Indo-western Pacific, Hawaii, Mauritius to Tahiti.
- Habitat: attached to *Holothuria atra*, *H. cinerascens*, *Actinopyga parva*, *A. mauritiana* etc.
- Original genus: *Eulima*.

G2015 *M. ogasawarana* (PILSBRY, 1905)

Ogasawara-kurimushi

- Type locality: Hahajima, Ogasawara islands.
- Distribution: Ogasawara islands and westwards, P11, Okinawa.
- Habitat: intertidal to 10 m., sand, host unknown.
- Original genus: *Eulima*.

G2016 *M. luchuana* (PILSBRY, 1901-b)

Ryūkyū-kurimushi

- Type locality: 'Loo Choo Ids.' (Okinawa).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, Sagami bay, P7-P5, EC5, ECP4-ECP2.
- Habitat: intertidal to 10 m., sand.
- Original genus: *Eulima*.

G2017 *M. shibana* (YOKOYAMA, 1927)

Shiba-setomono-gai

- Type locality: Kuruma, Shiba district, Tōkyō (fossil).

- Distribution: Sagami bay, Ogasawara islands (Iōjima).
- Habitat: 100-600 m., parasitic on *Parastichopus nigripunctatus*.
- Original genus: *Eulima* (*Leiostraca*).

G2018 *M. teramachii* (HABE, 1952-d)

Teramachi-setomono-gai

- Type locality: Tosa bay, southern Shikoku.
- Distribution: recorded only from type locality.
- Habitat: attached to *Mesothuria parva*.
- Original genus: *Balcis*.

G2019 *M. persimilis* (KURODA & HABE in KURODA *et al.*, 1971)

Harinoho-kurimushi

- Type locality: Kamekisho, Sagami bay; 150-250 m.
- Distribution: off Chōshi (Chiba prefecture, central Honshū), Sagami bay.
- Habitat: 150-250 m., host unknown.
- Original genus: *Balcis*.

G2020 *M. inflexa* (PEASE, 1868-b)

(= *M. vafra* PILSBRY, 1917; *B. vafa* (*sic*) *sensu* EKAWA, 1991; *B. inflata* (PEASE, 1868) *sensu* EKAWA, 1991)

Hane-kurimushi

- Type locality: 'Paumotus' (Tuamotu archipelago).
- Distribution: Amami islands and southwards, ECP3-ECP2; Tuamotos, Hawaii, Clipperton island.
- Habitat: parasitic on *Actinopyga mauritiana*, *Holothuria atra*.
- Original genus: *Eulima*.

G2021 *M. yamazii* (HABE, 1952-d)

Yamaji-kurimushi (= Tetsu-iro-namako-kurimushi)

- Type locality: Shirahama, Kii peninsula, central Honshū.
- Distribution: Kii peninsula and southwards, P5, EC5.
- Habitat: intertidal, attached to *Holothuria lubrica* var. *moebii* (LUDWIG).
- Original genus: *Balcis*.

G2022 *M. nivea* (A. ADAMS, 1861-b)

Yuki-kurimushi

- Type locality: Tsushima, western Japan Sea; 26 fms.
- Distribution: Japan Sea (off Mishima; Tsushima, J2-J1), Gotō islands (western Kyūshū).
- Habitat: 20-50 m., sand, host unknown.
- Original genus: *Balcis*.

**Notes:** one of the two syntypes in the BMNH is a specimen of *Melanella acicula* (det. A. Warén).

G2023 *M. kyurokusimensis* NOMURA & HATAI, 1960

- Type locality: Kyūrokushima (island), Aomori prefecture, northern Japan Sea; 103 m.
- Distribution: recorded only from type locality.

G2024 *M. acuta* (SOWERBY I, 1834)

Togari-hana-gōna

- Type locality: Montiji bay, central America.
- Distribution: 'Pacific coast at 29° N.' (KURODA & HABE, 1952-a).
- Original genus: *Eulima*.

G2025 *M. angulata* (A. ADAMS, 1861-b)

- Type locality: 'Tabu-Sima' (Tobishima, Japan Sea), 25 fms.
- Distribution: recorded only from type locality.
- Original genus: *Eulima*.

G2026 *M. carneola* (GOULD, 1861 in 1859-61)

- Type locality: 'Ousima' (Amami Ōshima).
- Distribution: recorded only from type locality.
- Original genus: *Eulima*.

G2027 *M. chrysallida* (A. ADAMS, 1861-b)

- Type locality: 'Mino-Sima' (Mishima, Japan Sea), 63 fms.
- Distribution: recorded only from type locality.
- Original genus: *Eulima*.

G2028 *M. clavula* (A. ADAMS, 1861-b)

- Type locality: 'Mino-Sima' (Mishima, Japan Sea), 63 fms.
- Distribution: recorded only from type locality.
- Original genus: *Eulima*.

G2029 *M. cuspidata* (A. ADAMS, 1854 in H. & A. ADAMS, 1853-58)

- Type locality: Sibonga, Cebu, Philippines; low water in loose coral under stones.
- Distribution: 'Pacific coast, 0-29° N.' (KURODA & HABE, 1952-a); Philippines.
- Original genus: *Eulima*.

G2030 *M. debilis* (A. ADAMS, 1861-b)

- Type locality: 'Mino-Sima' (Mishima, Japan Sea), 63 fms.
- Distribution: recorded only from type locality.
- Original genus: *Eulima*.

G2031 *M. dentaliopsis* (A. ADAMS, 1861-b)

- Type locality: Korea strait, 46 fms.
- Distribution: Japan Sea (Korea strait; off Mishima).
- Original genus: *Eulima*.

G2032 *M. eburnea* (A. ADAMS, 1861-b)

- Type locality: off Tsushima, western Japan Sea; 26 fms.
- Distribution: 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a), Tsushima.
- Original genus: *Eulima*.

G2033 *M. flexa* (A. ADAMS, 1861-b)

- Type locality: 'Mino-Sima' (Mishima, Japan Sea), 63 fms.
- Distribution: recorded only from type locality.
- Original genus: *Eulima*.

G2034 *M. indeflexa* (A. ADAMS, 1861-b)

- Type locality: 'Mino-Sima' (Mishima, Japan Sea), 63 fms.

- Distribution: recorded only from type locality.
- Original genus: *Eulima*.

G2035 *M. labiosa* (SOWERBY II, 1834-b)

- Type locality: Anaa Island, Tuamotu archipelago.
- Distribution: 'Pacific coast 0°-29° N.' (KURODA & HABE, 1952-a); type locality.
- Original genus: *Eulima*.

G2036 *M. mundula* (A. ADAMS, 1861-b)

- Type locality: Tsushima, western Japan Sea; 16-26 fms.
- Distribution: recorded only from type locality.
- Original genus: *Eulima*.

G2037 *M. odontoidea* (A. ADAMS, 1861-b)

- Type locality: 'Mino-Sima' (Mishima, Japan Sea), 63 fms.
- Distribution: recorded only from type locality.
- Original genus: *Eulima*.

G2038 *M. pandata* (A. ADAMS, 1861-b)

- Type locality: Korea strait, 46 fms.
- Distribution: recorded only from type locality.
- Original genus: *Eulima*.

G2039 *M. pinguicula* (A. ADAMS, 1861-b)

- Type locality: 'Mino-Sima' (Mishima, Japan Sea), 63 fms.
- Distribution: recorded only from type locality.
- Original genus: *Eulima*.

G2040 *M. pyramidalis* (A. ADAMS, 1854 in H. & A. ADAMS, 1853-58)

- Type locality: Capul island, Philippines; on the reefs in sand.
- Distribution: 'Pacific coast 0°-29° N.' (KURODA & HABE, 1952-a); type locality.
- Original genus: *Eulima*.

G2041 *M. reclinata* (A. ADAMS, 1861-b)

- Type locality: Tsushima, western Japan Sea; 26 fms.
- Distribution: recorded only from type locality.
- Original genus: *Eulima*.

G2042 *M. scitula* (A. ADAMS, 1861-b)

- Type locality: 'Tabu-Sima' (Tobishima, Japan Sea).
- Distribution: recorded only from type locality.
- Original genus: *Eulima*.

G2043 *M. semitorta* (A. ADAMS, 1861-b)

- Type locality: Tsushima, western Japan Sea; 26 fms.
- Distribution: recorded only from type locality.
- Original genus: *Eulima*.

G2044 *M. stenostoma* (A. ADAMS, 1861-b)

- Type locality: Tsushima, western Japan Sea; 26 fms.
- Distribution: recorded only from type locality.
- Original genus: *Eulima*.

G2045 *M. stylata* (A. ADAMS, 1861-b)

- Type locality: 'Mino-Sima' (Mishima, Japan Sea), 63 fms.



- Distribution: recorded only from type locality.
- Original genus: *Eulima*.

G2046 *M. valida* (A. ADAMS, 1861-b)

- Type locality: 'Mino-Sima' (Mishima, Japan Sea), 63 fms.
- Distribution: recorded only from type locality.
- Original genus: *Eulima*.

G2047 *M. venusta* (PEASE, 1868-b)

- Type locality: 'Isles de la Societe' (Tahiti).
- Distribution: 'Pacific coast, 0°-34° N.' (KURODA & HABE, 1952-a); type locality.
- Original genus: *Eulima*.

G2048 *M. mabutii* NOMURA & HATAI, 1935

- Type locality: Kesen-numa, Miyagi prefecture, northeastern Honshū.
- Distribution: northeastern Honshū (Iwate and Miyagi prefectures).

G2049 *M. flexuosa* (A. ADAMS in H. & A. ADAMS, 1853-58)

- Type locality: none designated.
- Distribution: Okinawa (KURODA, 1960).
- Original genus: *Eulima*.

G2050 *M. clypeastericola* (HABE, 1976-c)

- Takono-makura-yadori-nina
- Type locality: Kii peninsula, central Honshū.
  - Distribution: Kii peninsula (Wakayama prefecture).
  - Habitat: attached to urchin *Clypeaster japonicus*.
  - Original genus: *Balcis*.

G2051 *M. brunnimaculata* (KAY, 1979)

- Type locality: Poipu beach, Kauai, Hawaii, in tidepool.
- Distribution: Ogasawara islands (Iōjima, KOIZUMI, 1993); Hawaii.
- Original genus: *Balcis*.

G2052 *M. conoidalis* (SOWERBY II, 1865 in 1865-78)

- Type locality: Hawaii.
- Distribution: Ogasawara islands (Iōjima KOIZUMI, 1993); Hawaii.
- Original genus: *Eulima*.

G2053 *M. peronellicola* (KURODA & HABE, 1950-d)

- Kashipan-yadori-nina
- Type locality: Yura bay, Wakayama prefecture, central Honshū.
  - Distribution: Kashima-nada and southwards, P7-P5, Seto inland sea, Japan Sea (Noto peninsula, J2-J1), EC5.
  - Habitat: attached to sand dollar *Peronella japonica* MORTENSEN, in sand.
  - Original genus: *Balcis*.

□ Genus *Vitreobalcis* WARÉN, 1980

Type species: *Apicalia holdsworthi* H. ADAMS, 1875 (o. d.)

G2054 *V. astropectinicola* (KURODA & HABE, 1950-d)

- Toge-momiji-hitode-yadori-nina
- Type locality: Tanabe bay, Kii peninsula, central Honshū.
  - Distribution: Sagami bay and southwards, P6-P5, Japan Sea (Wakasa bay), EC5.
  - Habitat: attached to *Astropecten polyacanthus* MÜLLER & TROSCHER, *Luidia maculata* MÜLLER & TROSCHER, *Asterias amurensis* LÜTKEN.
  - Original genus: *Balcis*.

G2055 *V. shoplanti* (MELVILL, 1898-b)

- (= *Balcis mortoni* WARÉN, 1981)  
Kasuri-momiji-hitode-yadori-nina
- Type locality: Aden.
  - Distribution: Ishigaki island (Okinawa islands); Hong Kong, Philippines (Cebu), Persian Gulf.
  - Habitat: parasitic on *Archaster typicus*.
  - Original genus: *Eulima*.

G2056 *V. temnopleuricola* FUJIOKA & HABE, 1983

- Sanshō-uni-yadori-nina
- Type locality: Shimo-ebetsu island, off Mukaishima (Seto inland sea, Hiroshima prefecture).
  - Distribution: Seto inland sea.
  - Habitat: Parasitic on *Temnopleurus oreumaticus* (LESKE).

G2057 *V. langfordi* (DALL, 1925-b)

- Murasaki-uni-yadori-nina
- Type locality: Shimoda, Izu peninsula, central Honshū.
  - Distribution: Bōsō peninsula and southwards, P7-P5, EC5.
  - Habitat: among spines of *Heliocidaris crassispina* (AGASSIZ).
  - Original genus: *Strombiformis*.

G2058 *V. akauni* (HABE, 1952-d)

- Aka-uni-yadori-nina
- Type locality: Shirahama, Kii peninsula, central Honshū.
  - Distribution: Kii peninsula and southwards, P5, EC5.
  - Habitat: attached to shell of *Pseudocentrotus depressus* (AGASSIZ), *Temnotrema rubrum* (DOEDERLEIN), *Tripneustes gratilla* (LINNAEUS) etc.
  - Original genus: *Balcis*.

□ Genus *Curveulima* LASERON, 1955

Type species: *Curveulima cornuta* LASERON, 1955 (o. d.)

G2059 *C. aurata* (S. HIRASE, 1920)

- (= *Balcis aurata sensu* KURODA & HABE, 1952-a, *err. pro -ata*)  
Kin-iro-setomono-gai
- Type locality: Naruto strait, Tokushima prefecture, northeastern Shikoku.
  - Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (Sado island, J2-J1), EC5, ECP4.

- Habitat: attached to *Heliocidaris crassispina* (AGASSIZ), *Hemicentrotus pulcherrimus* (AGASSIZ), *Pseudocentrotus depressus* (AGASSIZ), *Stomopneusteus variolaris* (LAMARCK).

- Original genus: *Melanella*

G2060 *C. nishimurai* **HABE, 1958-f**

Bafun-uni-yadori-nina

- Type locality: Monzen, Oga peninsula, Akita prefecture (northern Japan Sea).

- Distribution: Hokkaidō (Ōshima peninsula HOSFEO & HABE, 1991), Mutsu bay and southwards, P9-P5, Japan Sea (Oga peninsula, J4-J1), EC5.

- Habitat: among spines of urchins *Strongylocentrotus* (*Hemicentrotus*) *pulcherrimus* (AGASSIZ) and *S. nudus* (AGASSIZ).

G2061 *C. komaii* (**HABE, 1950-f**)

Umi-shida-yadori-nina

- Type locality: Shirahama, Kii peninsula (Wakayama prefecture).

- Distribution: Kii peninsula and southwards, P5, EC5.

- Habitat: on arms of *Comanthus japonicus* (MÜLLER).

- Original genus: *Balcis*.

G2062 *C. flavipunctata* **HABE, 1961-c**

Kiboshi-kurimushi

- Type locality: Kakeroma island (Amami islands).

- Distribution: recorded only from type locality.

□ Genus *Parvioris* **WARÉN, 1981**

Type species: *Eulima fulvescens* A. ADAMS, 1853 (o. d.)

G2063 *P. fulvescens* (A. ADAMS, 1853 in H. & A. ADAMS, 1853-58)

Kasuri-momiji-hitode-tsumami-gai

- Type locality: 'Island of Labuan, in a starfish' (probably Labuan, northern Malaysia).

- Distribution: Ishigaki island (Okinawa prefecture HABE, 1989); type locality.

- Habitat: in stomach of *Archaster typicus*.

- Original genus: *Eulima*.

**Notes:** see KANAZAWA & HABE (1979).

□ Genus *Echineulima* **LUETZEN & NIELSEN, 1975**

Type species: *Stylifer mittrei* PETIT, 1851 (o. d.)

(= *Luetzenia* WARÉN, 1980 non REHDER, 1980)

G2064 *E. robusta* (**PEASE, 1860-b**)

(= '*Mucronalia?* sp.' *sensu* MORTENSEN, 1940; *Rosenia tokiokai* HABE, 1952; *E. eburnea* DESHAYES *sensu* LUETZEN & NIELSEN, 1975)

Gangaze-yadori-nina

- Type locality: Hawaiian islands.

- Distribution: Kii peninsula and southwards, P5, EC5; Hawaii.

- Habitat: on peristome of *Diadema setosum* (LESKE) and *Echinothrix diadema* (LINNAEUS).

- Original genus: *Stylifer*.

G2065 *E. eburnea* (**DESHAYES, 1863**)

Paipu-uni-yadori-nina

- Type locality: Réunion island, Indian Ocean.

- Distribution: Ogasawara islands and westwards, P11, Amami Ōshima and southwards, ECP3-ECP2, P2; Philippines.

- Habitat: in stomach of *Heterocentrotus mamillatus* (LINNAEUS).

- Original genus: *Stylifer*.

G2066 *E. tokii* (**HABE, 1974-a**)

Iijima-fukuro-uni-yadori-nina

- Type locality: off Nada (fishing port), Gobō City, Wakayama prefecture, central Honshū.

- Distribution: recorded only from type locality.

- Habitat: among spines on oral side of *Asthenosoma iijimai* YOSHIWARA.

- Original genus: *Stilapex*.

□ Genus *Goodingia* **LUETZEN, 1972**

Type species: *Mucronalia varicosa* SCHEPMAN & NIERSTRASZ, 1909 (o. d.)

G2067 *G. ophiuraphila* (**HABE, 1974-a**)

Kumo-hitode-tsumami-gai

- Type locality: Nada (fishing port), Gobō City, Wakayama prefecture, central Honshū.

- Distribution: Kii peninsula and westwards, P5.

- Habitat: on disc of *Ophiothrix koreana* DUNCAN and *O. marenzelleri* KÖHLER.

- Original genus: *Mucronalia*.

□ Genus *Stilapex* **IREDALE, 1925**

Type species: *Stilapex lactarius* IREDALE, 1925 (o. d.)

(= *Lambertia* SOUVERBIE, 1869 non ROBINEAU-DESVOIDY, 1859; *Stylapex auct.*)

G2068 *S. lactarius* **IREDALE, 1925**

Toge-kumo-hitode-tsumami-gai

- Type locality: 20 miles east of Babel island (Furmeaux group, northern Tasmania); 70 fms.

- Distribution: Japan (WILSON, 1993); Australia.

- Habitat: attached to *Ophiothrix aristulata*.

G2069 *S. zebra* **HABE, 1976-c**

Tatejima-yadori-nina (= Shima-yadori-nina)

- Type locality: Wakayama prefecture, central Honshū.

- Distribution: Wakayama prefecture.

- Habitat: on disc of *Ophiothrix* sp.

G2070 *S. koyamai* **HABE, 1976-c**

Koyama-yadori-nina

- Type locality: Wakayama prefecture, central Honshū.

- Distribution: Wakayama prefecture.

- Habitat: on *Stichopus* sp.

G2071 *S. teramachii* **HABE, 1958-f**

Teramachi-yadori-nina

- Type locality: off southern Shikoku, approx 100 fms.

- Distribution: recorded only from type locality.

- Habitat: on *Stichopus* sp.

G2072 *S. suzuki* **HABE, 1991-a**

(= *Stilapex* sp. *sensu* SUZUKI, 1979)

Suzuki-yadori-nina

- Type locality: off Tobishima, Yamagata prefecture (Japan Sea); 46-54 m., sand.

- Distribution: recorded only from type locality.

- Habitat: on aural part and ambulacral groove of brittle star *Stegophiura sladeni* DUNCAN.

□ Genus *Pictobalcis* **LASERON, 1955**

Type species: *Eulima articulata* SOWERBY II, 1834 (o. d.)

G2073 *P. articulata* (**SOWERBY I, 1834**)

Fushi-kurimushi-gai

- Type locality: '*ad littora Australiae*' (coast of Australia).

- Distribution: Ogasawara islands and westwards, P11, Kii peninsula and southwards, P5, EC5, ECP4-ECP2; Australia,

- Habitat: intertidal to 20 m., host unknown.

- Original genus: *Eulima*.

□ Genus *Apicalia* **A. ADAMS, 1862-c**

Type species: *Apicalia gibba* A. ADAMS, 1862

(= *Chryseulima* LASERON, 1955)

G2074 *A. gibba* **A. ADAMS, 1862-c**

Gotō-daruma-kurimushi (= Hisago-kurimushi-gai)

- Type locality: 'Gotto Islands' (Gotō islands, off western Kyūshū); 71 fms.

- Distribution: Kii peninsula (Susami, EKAWA, 1992-a); type locality.

- Habitat: 50-100 m., sand.

G2075 *A. habei* **WARÉN, 1981-a**

(= *Mucronalia philippinarum* SOWERBY III, 1900 *non* DUNKER, 1860; *M. mitrei* HABE, 1944 *non* PETIT, 1851)

Yatsude-hitode-yadori-nina (= Yadori-nina; Daruma-kurimushi-gai; Daruma-tsumami-gai)

- Type locality: Japan.

- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2.

- Habitat: intertidal, on oral part of *Coscinasterias acutispina* (STIMPSON).

□ Genus *Amamibalcis* **KURODA & HABE, 1950-d**

Type species: *Amamibalcis kawamurai* KURODA &

HABE, 1950 (mt.)

G2076 *Am. kawamurai* **KURODA & HABE, 1950-d**

Kebori-kurimushi

- Type locality: Kakeroma island (Amami islands).

- Distribution: Amami Ōshima and southwards, Okinawa, ECP3-ECP2, P2.

- Habitat: intertidal to 10 m., coarse sand and stones; host unknown.

G2077 *Am yessoensis* **RYBAKOV & YAKOVLEV, 1993**

Ezo-kebori-kurimushi

- Type locality: Moneron island, northern Japan Sea (off southern Sakhalin); 15 m.

- Distribution: recorded only from type locality.

- Habitat: parasitic on *Eupentacta fraudatrix*, *Cacumaria japonica*.

□ Genus *Lentigobalcis* **HABE, 1961-a**

Type species: *Leiostraca lentiginosa* A. ADAMS, 1861 (o. d.)

G2078 *L. lentiginosa* (**A. ADAMS, 1861-e**)

Gomafu-kurimushi

- Type locality: 'Shan-Tung' (Shandong peninsula, China).

- Distribution: Suruga bay and southwards, P6-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4; China.

- Habitat: intertidal, coarse sand and stones.

- Original genus: *Leiostraca*.

G2079 *L. amamiensis* **HABE, 1961-c**

Hoso-gomafu-kurimushi

- Type locality: Kakeroma island (Amami islands).

- Distribution: western Kyūshū and southwards, EC5, ECP4-ECP2.

- Habitat: intertidal, sand.

G2080 *L. punctozonata* **HABE, 1961-c**

Tensuji-kurimushi

- Type locality: Kakeroma island (Amami islands).

- Distribution: Amami islands and southwards, Okinawa islands.

- Habitat: intertidal, sand.

□ Genus *Scalenostoma* **DESHAYES, 1863**

Type species: *Scalenostoma carinata* DESHAYES, 1863 (= *Subeulima* SOUVERBIE, 1875; *Hyperlia* PILSBRY, 1918; *Stilimella* LASERON, 1955)

G2081 *S. apiculatum* **SOUVERBIE, 1876**

Oneji-nina

- Type locality: Mauritius.

- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, New Caledonia, Mauritius.

- Habitat: intertidal in mangroves.

G2082 *S. lamberti* **SOUVERBIE, 1875 in 1875-77**

Odori-oneji-nina

- Type locality: Nou island, New Caledonia.
- Distribution: Amami islands and southwards, ECP3, ECP2; New Caledonia.
- Habitat: intertidal, sand.

G2083 *S. morisyuichiroi* (HABE, 1968-a)

Kurin-odori-oneji-nina

- Type locality: Amami Ōshima.
- Distribution: Ankyaba (Kakeroma island, Amami islands), Amami-Ōshima (TAKADA & HABE, 1991); western Pacific.
- Habitat: intertidal, sand.
- Original genus: *Subeulima*

□ Genus *Niso* RISSO, 1826

Type species: *Niso eburnea* RISSO, 1826 (mt.)  
(= *Bonellia* DESHAYES, 1838 non ROLANDO, 1821;  
*Janella* GRATELOUP, 1838; *Volusia* A. ADAMS, 1861  
non ROBINEAU-DESVOIDY, 1830; *Neovolusia*  
EMERSON, 1965)

G2084 *N. hizenensis* KURODA & HABE, 1950-d

Heso-aki-gōna (= Heso-aki-hana-gōna)

- Type locality: Hirado island, Nagasaki prefecture, western Kyūshū.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5.
- Habitat: 20 m., sand.

G2085 *N. matsumotoi* KURODA & HABE in  
HABE, 1961-a

Matsumoto-heso-aki-gōna

- Type locality: 'off Isshiki, Aichi prefecture' subsequently corrected to 'off Shima, Mie prefecture, 20-50m' (HABE, 1977).
- Distribution: Sagami bay and westwards, Enshū-nada, off Kii peninsula.
- Habitat: 20-50 m., sandy mud

G2086 *N. dorcas* KURODA & HABE, 1950-d

Otohime-heso-aki-gōna

- Type locality: Tosa bay (southern Shikoku).
- Distribution: Kii peninsula and southwards, southern Shikoku.
- Habitat: 100-200 m., sand.

G2087 *N. stenophala* KURODA & HABE, 1950-d

Sema-heso-aki-gōna

- Type locality: Tosa bay (southern Shikoku).
- Distribution: Kii peninsula and southwards, southern Shikoku.
- Habitat: 100-200 m., sand.

G2088 *N. regia* KURODA & HABE, 1950-d

Daiō-heso-aki-gōna

- Type locality: Tosa bay (southern Shikoku).
- Distribution: recorded only from type locality.
- Habitat: 100-200 m., sandy mud.

G2089 *N. goniostoma* A. ADAMS, 1854 in H. & A.  
ADAMS, 1853-58

Hiro-heso-aki-gōna

- Type locality: island of Burias, Philippines; 7 fms., fine sand.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines.
- Habitat: intertidal to 20 m., sand.

G2090 *N. brunnea* (SOWERBY I, 1834)

Cha-iro-heso-aki-gōna (= Kuri-iro-heso-aki-hana-gōna)

- Type locality: Hainan strait, southern China.
- Distribution: Japan Sea (off Mishima and southwards, J2-J1), EC5, ECP4-ECP2, P2; China.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Eulima*.

G2091 *N. tetuakii* HABE, 1949-d

Kira-heso-aki-gōna (= Kira-heso-aki-hana-gōna)

- Type locality: Tosa bay, southern Shikoku.
- Distribution: off Izu peninsula, Tosa bay, Japan Sea (off central Niigata prefecture; Sado island; Wakasa bay), western Kyūshū (off Aose; off Koshiki islands).
- Habitat: 100-200 m., sand, coarse sand and stones.

G2092 *N. yokoyamai* KURODA & HABE, 1950-d

(= *N. interrupta* YOKOYAMA, 1926 non SOWERBY I, 1834)

Ryūgū-heso-aki-gōna

- Type locality: Tosa bay, southern Shikoku.
- Distribution: off Izu peninsula, Tosa bay, Japan Sea (off central Niigata prefecture; Sado island; Wakasa bay) western Kyūshū (off Aose; Koshiki islands).
- Habitat: 100-200 m., sand, coarse sand and stones.

G2093 *N. rubropicta* HABE, 1975

Tsuma-guro-heso-aki-gōna (= Saki-guro-heso-aki-gōna)

- Type locality: South China Sea.
- Distribution: Yakushima (off Nagata); Taiwan.
- Habitat: 200-250 m., sand.

□ Genus *Selma* A. ADAMS, 1863-o

Type species: *Selma succiniola* A. ADAMS, 1863

G2094 *S. succiniola* A. ADAMS, 1863-o

- Type locality: 'O-sima' (probably Kii-Ōshima, Kii peninsula, central Honshū).
- Distribution: recorded only from type locality.

□ Genus *Mucronalia* A. ADAMS, 1860-b

Type species: *Mucronalia bicincta* A. ADAMS, 1860

(= *Mucronella* IVANOV in FISHELSON, 1973 *nom. nud.*)

G2095 *M. bicincta* A. ADAMS, 1860-b

Futa-obi-tsumami-gai

- Type locality: 'Straits of Korea, off Mino-Sima' (Mishima, Japan Sea), 63 fms.
- Distribution: Sagami bay and southwards, P6-P5, Japan Sea (off Mishima, J2-J1).
- Habitat: 50-150 m., sand.

G2096 *M. exilis* A. ADAMS, 1862-c

Yase-futa-obi-tsumami-gai

- Type locality: 'Siminoseki, Suwonada Sea' (Suo-nada, western Seto inland sea, off Shimonoseki), 7 fms.
- Distribution: Tateyama bay (central Honshū TAMURA & OKUTANI, 1989) and southwards, P6-P5, western Seto inland sea, Japan Sea (off northern Yamaguchi prefecture, J1), EC5, ECP4.
- Habitat: 10-50 m., shell bottom; attached to *Ophioplocus miyadii*.

G2097 *M. subula* A. ADAMS, 1863-o

Kogata-tsumami-gai

- Type locality: 'Simoda' (Shimoda, Izu peninsula, central Honshū).
- Distribution: Seto inland sea (INABA, 1982), Sagami bay, Izu peninsula.
- Habitat: 10-50 m., sand.

□ Genus *Hypermastus* PILSBRY, 1899

Type species: *Eulima (Hypermastus) coxi* PILSBRY, 1899

G2098 *H. gigas* (KURODA & HABE, 1950-d)

Ō-tsumami-gai

- Type locality: Miyako islands (Okinawa prefecture).
- Distribution: Amami islands and southwards, ECP3-ECP2.
- Habitat: intertidal to 10 m., sandy mud, on *Holothurians*.
- Original genus: *Mucronalia*.

G2099 *H. lacteus* (A. ADAMS, 1863-o)

Himo-ikari-namako-tsumami-gai

- Type locality: 'Tanabe' (Tanabe district, Kii peninsula, central Honshū).
- Distribution: Miura peninsula, Seto inland sea (Hyōgo prefecture; Aio bay, Yamaguchi prefecture)(FUKUDA, 1996).
- Habitat: endoparasitic on *Leptosynapta ooplax* MARENZELLER.
- Original genus: *Mucronalia*.

G2100 *H. philippianus* (DUNKER, 1860 in 1859-60)

Fuirippi-tsumami-gai

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: Kii peninsula and southwards, P5, EC5.
- Habitat: 10-50 m., sandy mud.
- Original genus: *Eulimella*.

G2101 *H. dunkeriana* (PILSBRY, 1901-b)

Dunkeru-tsumami-gai

- Type locality: Hirado island, Nagasaki prefecture, western Kyūshū.
- Distribution: Kii peninsula and southwards, P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5.
- Habitat: 10-50 m., host unknown.
- Original genus: *Eulima*.

G2102 *H. araeosomae* HABE, 1992-a

Ōsuton-fukuro-uni-yadori-nina

- Type locality: between Koshiki islands and Gotō islands (off western Kyūshū); 450 m.
- Distribution: type locality; off Ushibuka (Amakusa, western Kyūshū).
- Habitat: 150-450 m., on shell of *Araeosoma owstoni* MORTENSEN, 1904.

□ Genus *Goubinia* DAUTZENBERG, 1923

Type species: *Eulima (Goubinia) insueta*

DAUTZENBERG, 1923

G2103 *G. insueta* (DAUTZENBERG, 1923)

Neko-no-tsume-gai

- Type locality: Lifu, Loyalty islands, New Caledonia.
- Distribution: Amami Ōshima; New Caledonia.
- Original genus: *Eulima (Goubinia)*.

□ Genus *Trochostilifer* WARÉN, 1980

Type species: *Trochostilifer domus* WARÉN, 1980 (o. d.)

G2104 *T. striatus* (HEDLEY, 1900-b)

(= *Annulobalcis prionocidaricola* HABE, 1974-a)

Nokogiri-uni-tōmaki-kurimushi

- Type locality: Port Molle, Queensland, Australia.
- Distribution: Kii peninsula (Nada, Gobō district); Australia.
- Habitat: on shell of *Prionocidaris baculosa annulifera* LAMARCK.
- Original genus: *Scalenostoma*.
- Notes:** often cited incorrectly as HEDLEY, 1905.

□ Genus *Annulobalcis* HABE, 1965-b

Type species: *Annulobalcis shimazui* HABE, 1965 (mt.)

G2105 *A. shimazui* HABE, 1965-b

Tōmaki-kurimushi

- Type locality: off Zushi, eastern Sagami bay, central Honshū.
- Distribution: Sagami bay and westwards, Kii peninsula, Tosa bay.
- Habitat: in stomachs of *Astropecten* spp., from 30-60 m.

G2106 *A. yamamotoi* HABE, 1974-a

Ō-umi-shida-tōmaki-kurimushi

- Type locality: Cape Bansho, Shirahama, Kii peninsula, central Honshū.

- Distribution: Miura peninsula (eastern Sagami bay), Kii peninsula.

- Habitat: on arms of *Tropiometra afra macrodisca* (HARA).

□ Genus *Teretianax* IREDALE, 1919

Type species: *Scalenostoma suteri* OLIVER, 1915 (o. d.)

G2107 *T. baculum-pastoris* (MELVILL & STANDEN, 1896)

- Type locality: Lifu, Loyalty islands (New Caledonia).
- Distribution: Amami Ōshima (KANEKO, 1989); New Caledonia.
- Original genus: *Rissoina* (as *baculum-pastoris*).

□ Genus *Stilifer* BRODERIP & SOWERBY, 1832

Type species: *Stilifera astericola* BRODERIP, 1832

G2108 *S. akahitode* HABE & MASUDA, 1990

(= *S. celebensis sensu* KURODA, 1933; *S. ovoideus* H. & A. ADAMS *sensu* HABE, 1952, 1964)

Aka-hitode-yadori-nina (= Mame-okina-ebisu)

- Type locality: Seno-umi, Suruga bay.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5.
- Habitat: parasitic on the red starfish *Certonardoa semiregularis* (MÜLLER & TROSCHER).

Notes: see HABE, 1989-a.

G2109 *S. utinoumii* HABE, 1951-d

Uchinomi-yadori-nina

- Type locality: Shirahama, Kii peninsula, central Honshū.
- Distribution: Kii peninsula and southwards, P5, EC5, Ogasawara islands (Chichijima, FUKUDA, 1993).
- Habitat: parasitic in arms of *Linkia guildingii* GRAY.

G2110 *S. ophidiastericola* HABE, 1951-d

Amakusa-yadori-nina

- Type locality: Tomioka, Amakusa, western Kyūshū.
- Distribution: Kii peninsula and southwards, P5, western Japan Sea (northern Yamaguchi prefecture HORI & KŌDA 1996; J1), EC5, Ogasawara islands (Chichijima FUKUDA, 1993).
- Habitat: parasitic in arms of *Ophidiaster cribrarium* (LÜTKEN), *O. loliori* FISCHER, *O. confertus* CLARK and *O. granifer* LÜTKEN.

G2111 *S. pisum* HABE, 1953-d

Mame-yadori-nina

- Type locality: Tosa bay, southern Shikoku.
- Distribution: Kii peninsula and southwards, P5, EC5.
- Habitat: on arms of decapod seastars *Coronaster volsellatus* SLADEN and *Coronaster* spp.

G2112 *S. japonica* SOWERBY II, 1878 in 1865-78

- Type locality: 'Japan'.
- Distribution: 'Pacific coast' (KURODA & HABE, 1952-

a).

□ Genus *Tropiometricola* WARÉN, 1981

Type species: *Stilifer sphaeroconcha* HABE, 1974 (o. d.)

G2113 *T. sphaeroconcha* (HABE, 1974-a)

Tama-yadori-nina (= Ō-umi-shida-yadori-nina)

- Type locality: off Nagashima, eastern Kii peninsula (Mie prefecture, central Honshū).
- Distribution: Kii peninsula.
- Habitat: subtidal to 10 m., in arms of *Tropiometra afra macrodisca* (HARA).
- Original genus: *Stilifer*.

□ Genus *Robillardia* E. A. SMITH, 1889

Type species: *Robillardia cernica* E. A. SMITH, 1889 (o. d.)

G2114 *R. cernica* E. A. SMITH, 1889

Uchi-yadori-nina

- Type locality: Mauritius, 'on an Echinus'.
- Distribution: Ogasawara islands (HABE, 1989-a); Mauritius.
- Habitat: parasitic on *Echinometra mathaei* (BLAINVILLE).

□ Genus *Paramegadenus* HUMPHREYS & LUETZEN, 1972

Type species: *Megadenus arrhynchus* IVANOV, 1937 (o. d.)

G2115 *P. arrhynchus* (IVANOV, 1937)

Meoto-yadori-nina

- Type locality: Yellow Sea (China).
- Distribution: southwestern Kii peninsula (off Ichiezaki NAGAI, 1983), East China Sea (off western Kyūshū, 208 m.); Yellow Sea (153-175 m.), Philippines (Cebu; Mindoro)
- Habitat: parasitic on *Asthenoides rugulosus* FISHER, 1919.
- Original genus: *Megadenus*.

□ Genus *Thyca* H. & A. ADAMS, 1854 in 1853-58

Type species: *Pileopsis astericola* ADAMS & REEVE, 1850

(= *Kiramodulus* KURODA, 1949; *Bessomia* BERRY, 1959; *Granulithyca* HABE, 1976)

G2116 *T. crystallina* (GOULD, 1846 in 1846-50)

(= *T. ectoconcha* SARASIN, 1887)

Hitode-nakase (= Shiro-suzume-gai; Fukure-shiro-suzume)

- Type locality: 'Fiji'.
- Distribution: Ogasawara islands (Chichijima; Kita-Iōjima FUKUDA, 1993) and southwards; Philippines.
- Habitat: parasitic on *Linckia laevigata* (L.) etc. on coral reefs.
- Original genus: *Pileopsis* (*Scutellina*).

G2117 *T. nardoafrianti* (YAMAMOTO & HABE in HABE, 1976-c)

Beni-ibo-hitode-shiro-suzume

- Type locality: Wakayama prefecture, central Honshū.
- Distribution: recorded only from type locality.
- Habitat: parasitic on *Nardoia frianti*.
- Original genus: *Granulithyca*.

G2118 *T. lacteus* (KURODA, 1949-a)

Urashima-katabe

- Type locality: Tosa bay, southern Shikoku.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and westwards, Izu peninsula, Kii peninsula (Cape Shio), Tosa bay.
- Habitat: 50-300 m., parasitic on *Johannaster giganteus* GOTŌ.
- Original genus: *Kiramodulus*.

G2119 *T. sagamiensis* (KURODA & HABE in KURODA *et al.*, 1971)

Sagami-urashima-katabe

- Type locality: Sagami bay, central Honshū.
- Distribution: Sagami bay and westwards, Mie prefecture (off Wagu), Tosa bay.
- Habitat: 50-200 m., host unknown.
- Original genus: *Kiramodulus*.

**Notes:** this species is provisionally placed here; it may prove to belong in the Vanikoridae.

□ Genus *Pelseneeria* KÖHLER & VANEY, 1908

Type species: *Pelseneeria profunda* KÖHLER & VANEY, 1908

(= *Stylina* FLEMING, 1829 *non* LAMARCK, 1816; *Rosenia* SCHEPMAN, 1914; *Turtonia* ROSEN, 1910 *non* ALDER, 1848; *Venustilifer* POWELL, 1938; *Parastilifer* IVANOV, 1954)

G2120 *P. castanea* (DALL, 1925)

(= *Stilifer perdepressus* DALL, 1925)

Dani-gai (= Kuri-iro-yadori-nina)

- Type locality: 'Emi-Bashiu, Japan' (Shimoda, Izu peninsula, central Honshū).
- Distribution: Hokkaidō (Ōshima peninsula HOSFEO & HABE, 1991) and southwards, northeastern Honshū (Iwate prefecture MUSASHI & HABE, 1991), P10-P5, EC5.
- Habitat: intertidal, parasitic on urchins *Pseudocentrotus depressus* (AGASSIZ) and *Strongylocentrotus nudus* (AGASSIZ).
- Original genus: *Stilifer*.

G2121 *P. yamamotoi* (HABE, 1952-d)

Hime-uni-yadori-nina (= Yamamoto-yadori-nina; Koshitaka-uni-yamamoto-yadori-nina)

- Type locality: Shiso-jima, off Shirahama, Kii peninsula, central Honshū.

- Distribution: Kii peninsula and southwards, P5, EC5, Japan Sea (Akita prefecture).

- Habitat: intertidal on shell of young *Pseudocentrotus depressus* (AGASSIZ) and *Temnotrema sculptum* (AGASSIZ).

- Original genus: *Rosenia*.

□ Genus *Paedophoropus* IVANOV, 1933

Type species: *Paedophoropus dicoelobicus* IVANOV, 1933 (o. d.)

G2122 *P. dicoelobicus* IVANOV, 1933

- Type locality: Japan.
- Habitat: parasitic in the polian vesicle of *Eupyrgus pacificus* OESTERGREN.

□ Genus *Asterophila* RANDALL & HEATH, 1912

Type species: *Asterophila japonica* RANDALL & HEATH, 1912

G2123 *A. japonica* RANDALL & HEATH, 1912

- Type locality: 'Albatross' sta. 4861-4867, Korea Strait; 150-163 fms.
- Distribution: recorded only from type locality.
- Habitat: parasitic in the coelom of the arm of *Pedicellaster magister orientalis* FISHER.

Infraorder NEOGASTROPODA WENZ, 1929

(Refs.: Wilson, 1994)

Superfamily MURICOIDEA RAFINESQUE, 1815

Family MURICIDAE RAFINESQUE, 1815

Subfamily MURICINAE RAFINESQUE, 1815

(Refs.: Radwin & D'Attilio, 1976)

□ Genus *Murex* LINNAEUS, 1758

Type species: *Murex pecten* MONTFORT, 1810 *non* LIGHTFOOT, 1786 (s. d. MONTFORT, 1810; = *Murex tribulus* LINNAEUS, 1758)

(= *Purpura* MARTINI, 1777 *non*-binominal; *Aranea* PERRY, 1811 *non* LINNAEUS, 1758; *Tribulus* KOBELT, 1877 *non* H. & A. ADAMS in KLEIN, 1853; *Acupurpura* JOUSSEAUME, 1880; *Tubicauda* JOUSSEAUME, 1880) (Refs.: Ponder & Vokes, 1988)

Subgenus *Murex s. str.*

G2124 *M. (M.) tribulus* LINNAEUS, 1758

(= *M. pecten* MONTFORT, 1810 *non* LIGHTFOOT, 1786; *M. crassispina* (*pars*), *tenuispina* (*pars*), *ternispina* (*pars*) all LAMARCK, 1822 in 1815-22)

Oni-hone-gai (= Churiburasu-hone-gai; Enma-no-hone-gai; Tatsuno-hone-gai)

- Type locality: 'in *O. Asiae*' (Asian seas).
- Distribution: Amami Ōshima and southwards, ECP3-ECP2, P2; Philippines, tropical western Pacific.
- Habitat: 30-100 m., sand.

**Notes:** apparently recorded from Nada, Kii peninsula by Kuroda (KOYAMA, 1997), but the present authors have

been unable to confirm this distribution.

**G2125 *M. (M.) troscheli* LISCHKE, 1868 in 1868-70**

(= *M. ternispina* sensu TRYON, 1880 (*pars*); *M. (Tribulus) ternispina* var. *rufolirata* SCHEPMAN, 1911 in 1908-13; *M. heros* FULTON, 1936)

Akuki-gai (= Akuki-tsuburi)

- Type locality: 'Nagasaki' (western Kyūshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, East China Sea, P2; Philippines, New Guinea.
- Habitat: 10-50 m., sand.

**G2126 *M. (M.) aduncospinosus* SOWERBY II, 1841 in 1832-41**

(= *M. concinnus* REEVE, 1845; '? *M. tribulus*' sensu H. & A. ADAMS, 1858; *M. (Tribulus) ternispina* sensu WATSON, 1886; *M. trapa* sensu CERNOHORSKY, 1967; *M. cf. concinnus* sensu FAIR, 1976; *M. unidentatus* sensu FAIR, 1976; *M. tribulus* sensu LADD, 1982)

Magebari-hone-gai (= Kin-suji-ko-akuki)

- Type locality: 'Philippine islands'.
- Distribution: Kii peninsula and southwards, P5, Japan Sea (Tsushima strait, J1), EC5, East China Sea, ECP4-ECP2; southwestern Pacific.
- Habitat: 50-200 m., sand.

**G2127 *M. (M.) falsitribulus* PONDER & VOKES, 1988**

(= *M. nigrospinosus* (*sic*) sensu MELVIN, 1966 non REEVE, 1845; *M. tribulus* sensu KAICHER, 1973 non LINNAEUS, 1758)

Nise-oni-hone-gai

- Type locality: Balabac, southern Palawan, Philippines.
- Distribution: Okinawa and southwards, ECP2, P2; Philippines.
- Habitat: 30-100 m., sand.

**G2128 *M. (M.) trapa* RÖDING, 1798**

(= *Purpura hystrix* MARTINI, 1777 (*pars*) non-binominal; *M. rarispina* LAMARCK, 1822 in 1815-22 (*pars*); *M. unidentatus* SOWERBY, 1834; *M. martinianus* REEVE, 1845; *M. ternispina* sensu TRYON, 1880 (*pars*); *M. adunco-spinosus* sensu KING & PING, 1931; *Acupurpura tropa* sensu COTTON, 1956 *err. pro tra-*; *A. cospinosus* sensu COTTON, 1956)

Ko-akuki-gai

- Type locality: 'Amboina' (Ambon island, Indonesia).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, southwestern Pacific.
- Habitat: 10-30 m., sand.

**G2129 *M. (M.) scolopax* DILLWYN, 1817**

(= *Purpura hystrix* MARTINI, 1777 (*pars*) non-binominal; *M. tribulus maximus* MARTINI, 1777 non-binominal; *M. occa* sensu WEBB, 1936 non SOWERBY, 1834; *M.*

*acanthostephas* sensu KAICHER, 1973 non WATSON, 1883; *M. crassispina* sensu SHIKAMA, 1964)

Usu-noro-akuki-gai

- Type locality: 'Red Sea' (Dillwyn, reference to Chemnitz).
- Distribution: P2; Taiwan and southwards, Philippines, Indo-Pacific.
- Habitat: 30-50 m., sand.

**G2130 *M. (M.) altispira* PONDER & VOKES, 1988**

(= *M. martinianus* sensu COX, 1948 non REEVE, 1845; *M. scolopax* sensu KAICHER, 1973)

Chirimen-ko-akuki

- Type locality: Sabah, Indonesia.
- Distribution: P2; Taiwan and southwards, Philippines, Indonesia.
- Habitat: 30-50 m., sand.

**G2131 *M. (M.) pecten* LIGHTFOOT, 1786**

(= *M. tribulus* sensu LINNAEUS, 1758 (*pars*); *M. tribulus duplicatus* CHEMNITZ, 1793; *M. histrix* RÖDING, 1798 non LINNAEUS, 1758; *Aranea gracilis* PERRY, 1810 in 1810-11; *A. triremis* PERRY, 1811; *Haustellum nobile* SCHUMACHER, 1817; *M. tribulus nobilior* LINNE sensu MÖRCH, 1852; *M. tenuispina* sensu KOBELT, 1877; *M. verbeeki* sensu MARTIN, 1895 (*pars*); *M. triremis* sensu S. HIRASE, 1934; *M. (Aranea) triremis* sensu KIRA, 1955) Hone-gai

- Type locality: 'Amboina' (Ambon island, Indonesia).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Tsushima strait, J1), EC5, ECP4-ECP2; Indo-Pacific.
- Habitat: 10-50 m., sand.

Notes: the Portland collection specimen catalogued by

Lightfoot was from 'China'.

**G2132 *M. (M.) spicatus* PONDER & VOKES, 1988**

(= *Aranea tribulus* sensu PERRY, 1811 non LINNAEUS, 1758; *M. ternispina* sensu REEVE, 1845 non LAMARCK, 1822 in 1815-22)

Magire-hone-gai

- Type locality: Okinawa island.
- Distribution: Amami Ōshima and southwards, Okinawa islands.
- Habitat: 10-50 m., sand.

**G2133 *M. (M.) ternispina* LAMARCK, 1822 in 1815-22**

(= *M. tenuispina* LAMARCK, 1822 in 1815-22 (*pars*); *M. nigrospinosus* REEVE, 1845; *M. tribulus* sensu RADWIN & D'ATTILIO, 1976)

Kuro-toge-hone-gai

- Type locality: none designated.
- Distribution: off Cape Ashizuri (southwestern Shikoku) and southwards, P5, ECP4-ECP2, P2; Philippines, tropical western Pacific.



- Habitat: 10-50 m., sand.

□ Genus ***Haustellum* SCHUMACHER, 1817**

Type species: *Murex haustellum* LINNAEUS, 1758  
(= *Brontes* MONTFORT, 1810 non FABRICIUS, 1801; *Brontesia* REICHENBACH, 1828 *err. pro -tes*; *Brontis* GRIFFITH & PIDGEON, 1834 *err. pro -tes*; *Bronta* PUSCH, 1837 *err. pro -tes*; *Haustellaria* SWAINSON, 1833)  
(Refs.: Ponder & Vokes, 1988)

G2134 ***H. haustellum* (LINNAEUS, 1758)**

(= *Murex scolopaceus* RÖDING, 1798; *Aranea denudata* PERRY, 1811; *H. laeve* SCHUMACHER, 1817; *M. erythrostoma* SWAINSON, 1840 non 1831; *M. haustellum* var. *longicaudus* BAKER, 1891; *M. (H.) kurodai* SHIKAMA, 1964; *H. vicdani* KOSUGE, 1980-e)  
Satsuma-tsuburi (= Toge-nashi-hime-satsuma-tsuburi)

- Type locality: 'in *O. Asiae*' (Asian seas).
- Distribution: Kii peninsula and southwards, P5, southern Kyūshū, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific.
- Habitat: 5-30 m., rubble & sand flats.
- Original genus: *Murex*.

G2135 ***H. rectirostris* (SOWERBY II, 1841 in 1832-41)**

Taiwan-tsuburi  
• Type locality: Hong Kong.  
• Distribution: southern Kyūshū and southwards, ECP4-ECP2, East China Sea, P2; South China Sea.  
• Habitat: 10-50 m., sand.  
• Original genus: *Murex*.

G2136 ***H. sobrinus* (A. ADAMS, 1863-b)**

(= *Murex coronatus sensu* SOWERBY, 1879 non A. ADAMS, 1863; *M. rectirostris sensu* RADWIN & D'ATTILIO, 1976)

Hime-hone-gai

- Type locality: 'Satanomisaki' (Cape Sata, southern Kyūshū), 55 fms; 'Gotto' (Gotō islands, off western Kyūshū), 48 fms; 'Kuro-Sima' (Kuroshima, off southern Kyūshū), 29 fms.
- Distribution: Kii peninsula and southwards, P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, East China Sea; Korea.
- Habitat: 10-50 m., sand.
- Original genus: *Murex*.

G2137 ***H. dentifer* (WATSON, 1883)**

(= *Murex funiculatus sensu* SCHEPMAN, 1911 in 1908-13 non REEVE, 1843; *M. hirasei sensu* ABBOTT & DANCE, 1982)

Saizuchi-tsuburi

- Type locality: 'Challenger' sta. 194, southwest off Papua: 4° 34' S., 129° 57' 30" E., 200 fms., volcanic mud.

- Distribution: P2; southwest off Taiwan, Philippines, South China Sea, Papua New Guinea.
- Habitat: 100-600 m., mud.
- Original genus: *Murex*.

G2138 ***H. hirasei* (DAUTZENBERG in HIRASE, 1915 in 1914-15)**

(= *Murex kiiensis sensu* FAIR, 1976 (*pars*) non KIRA, 1959)  
Tosa-tsuburi

- Type locality: 'Japan'.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines.
- Habitat: 100-200 m., sand.
- Original genus: *Murex*.

G2139 ***H. gallinago* (SOWERBY III, 1903-a)**

(= *Murex kiiensis sensu* ABBOTT & DANCE, 1982 non KIRA, 1959)

Ogasawara-tsuburi

- Type locality: Hahajima, Ogasawara islands.
- Distribution: Ogasawara islands and westwards, P11, Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Thailand.
- Habitat: 50-200 m., sand.
- Original genus: *Siratus*.

G2140 ***H. kiiensis* (KIRA, 1959-a)**

(= *Murex kiiensis forma nagaidesu* SHIKAMA, 1970)  
Kii-tsuburi (= Okinawa-tsuburi)

- Type locality: central Honshū, 50-100 fms.
- Distribution: Kii peninsula and southwards, EC5, East China Sea, ECP4-ECP2, P2; Indo-Pacific.
- Habitat: 100-200 m., sand.
- Original genus: *Murex*.

G2141 ***H. malabaricus* (E. A. SMITH, 1894-b)**

(= *Murex serratospinosus sensu* RADWIN & D'ATTILIO, 1976; *M. tunghaiensis* SHIKAMA & ŌISHI in SHIKAMA, 1977; *M. mindanoensis (sic)* sensu ABBOTT & DANCE, 1982)

Hiretsuki-tsuburi (= Tōkai-tsuburi)

- Type locality: 'Off Malabar coast': 11° 05' 45" N., 75° 04' 08" E., 36 fms.
- Distribution: ECP3-ECP2, East China Sea, P2; Philippines, Indo-Pacific.
- Habitat: 50-100 m., sand.
- Original genus: *Murex*.

G2142 ***H. senkakuensis* (SHIKAMA, 1973)**

Senkaku-tsuburi

- Type locality: Uotsuri-jima, Senkaku (Daiō-Yu-tai) islands, southwestern Okinawa prefecture.
- Distribution: East China Sea, P2; Philippines.
- Habitat: 100-200 m., sand.

- Original genus: *Murex* (as ssp. of *M. rectirostris*).

□ Genus ***Chicoreus* MONTFORT, 1810 in 1808-10**

Type species: *Murex ramosus* LINNAEUS, 1758 (o. d.)  
 (= *Chicoracea sensu* GRIFFITH & PIDGEON, 1834 *err. pro -reus*; *Cichoreum sensu* VOIGHT, 1834 *err.*; *Chicorax sensu* PUSCH, 1837 *err. pro -reus*; *Frondosaria* SCHLÜTER, 1838; *Cichoreus* AGASSIZ, 1846 *nom. nud.*; *Cichoraceus sensu* HERRMANNSEN, 1847 *err.*; *Cichoreum sensu* PAETEL, 1875 *err.*; *Euphyllon* JOUSSEAUME, 1880; *Pirtus* GREGORIO, 1885; *Torvamurex* IREDALE, 1936; *Toramurex sensu* SALISBURY, 1937 *err.*; *Foveomurex* WENZ, 1941; *Chicoleus sensu* KOYAMA, 1997)

(Refs.: Houart, 1992)

Subgenus ***Chicoreus s. str.***

G2143 *C. (C.) ramosus* (LINNAEUS, 1758)

(= *Purpura incarnata* RÖDING, 1798; *P. fusiformis* RÖDING, 1798; *Murex inflatus* LAMARCK, 1822 in 1815-22; *M. frondosus* MÖRCH, 1852; *M. fortispinna* FRANCOIS, 1891)

Tengu-gai

- Type locality: 'in Sinu Persico, Jamaica' (Persian Gulf and Jamaica).
- Distribution: Kii peninsula (Minabe; Kushimoto KOYAMA, 1997), Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific.
- Habitat: intertidal to 30 m. on coral reefs.
- Original genus: *Murex*.

G2144 *C. (C.) asianus* KURODA, 1942-b

(= *Murex sinensis* REEVE, 1846 *non* GMELIN, 1791; *M. brevifrons* LAMARCK *sensu* IWAKAWA, 1900-05; *C. orientalis* ZHANG, 1965)

Oni-sazae (= Naga-tengu)

- Type locality: 'China'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5; Korea, southern China.
- Habitat: intertidal to 30 m., rocks.

Subgenus ***Triplex* PERRY, 1810 in 1810-11**

Type species: *Triplex rosaria* PERRY, 1811 (suppressed ICZN op. 911; = *Murex palmarosae* LAMARCK, 1822)

G2145 *C. (T.) palmarosae* (LAMARCK, 1822 in 1815-22)

(= *Triplex foliatus* PERRY, 1810 *non* RÖDING, 1798; *T. rosaria* PERRY, 1811 suppressed, ICZN op. 911; *Murex argyna* MÖRCH, 1852; *M. (C.) maurus sauliae sensu* SMITH, 1953; *C. rosarius sensu* ARAKAWA, 1964; KIRA, 1965; SPRINGSTEEN & LEOBRERA, 1986)

Senju-gai

- Type locality: 'l'Océan indien (?)'.
- Distribution: Izu islands and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific.
- Habitat: subtidal to 30 m., rocks.
- Original genus: *Murex*.

G2146 *C. (T.) saulii* (SOWERBY II, 1841-b)

Bara-iro-senju

- Type locality: 'ad insulam Capul, Philippinarum' (Capul island, Philippines).
- Distribution: Kii peninsula (KOYAMA, 1997) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, western Pacific.
- Habitat: 20-60 m., rubble.
- Original genus: *Murex*.

G2147 *C. (T.) torrefactus* (SOWERBY II, 1841-b)

(= *Murex rubiginosus* REEVE, 1845; *M. affinis* REEVE, 1846; *M. benedictinus* LÖBBECKE, 1879; *M. rochebruni* POIRIER, 1883; *M. maurus sensu* SMITH, 1953; KENNELLY, 1964; *C. maurus sensu* KAICHER, 1973; FAIR, 1976; *C. carneolus sensu* CERNOHORSKY, 1967; *C. rubiginosus sensu* WILSON & GILLET, 1971; *C. palmiferus sensu* HINTON, 1972; *C. microphyllus sensu* RADWIN & D'ATTILIO, 1976; *C. saulii sensu* HINTON, 1979; *C. (C.) kilburni* HOUART & PAIN, 1982)

Senju-modoki

- Type locality: 'ad insulam Ticao, Philippinarum' (island of Ticao, Philippines); 'Found on coral reefs'.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, northern Australia, Indo-western Pacific, east Africa.
- Habitat: subtidal to 20 m., rocks.
- Original genus: *Murex*.

G2148 *C. (T.) microphyllus* (LAMARCK, 1822 in 1815-22)

(= *Murex poirieri* JOUSSEAUME, 1881; *M. jousseaumi* POIRIER, 1883; *C. akritos* RADWIN & D'ATTILIO, 1976; *C. penchinanti sensu* CERNOHORSKY, 1971; *C. huttoniae sensu* WILSON & GILLET, 1971; *C. akritos sensu* RIPPINGALE, 1987; *C. (C.) rubescens sensu* FAIR, 1976)

Ō-ganzeki (= Kuiuinzurando-ganzeki)

- Type locality: none designated.
- Distribution: southern Shikoku and southwards, P5, southern Kyūshū, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific, Australia, Madagascar.
- Habitat: intertidal to 20 m., rocks and coral reefs.
- Original genus: *Murex*.

**Notes:** apparently recorded from the Kii peninsula by Kuroda (KOYAMA, 1997), but the present authors have been unable to confirm this distribution.

G2149 *C. (T.) strigatus* (REEVE, 1849 in 1843-65)

(= *Murex penchinati* CROSSE, 1861; *M. multifrondosus* SOWERBY II, 1879; *M. (C.) penchinati sensu* SMITH, 1953; *C. penchinati sensu* ARAKAWA, 1964; CERNOHORSKY, 1971; ABBOTT & DANCE, 1982; *C. (C.) trivialis sensu* FAIR, 1976; *M. (C.) microphyllus sensu* EISENBERG, 1981; *C. brunnea sensu* RIPPINGALE, 1987)

Ko-ganzeki

- Type locality: none designated.
- Distribution: Sagami bay and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, tropical western Pacific.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Murex*.

G2150 *C. (T.) axicornis* (LAMARCK, 1822 in 1815-22)

(= *Murex kawamurai* SHIKAMA, 1964)

Ko-tengu-gai (= Naga-tengu-gai)

- Type locality: 'l'Océan des grandes Indes et des Moluques' (Moluccas (Maluku), Indonesia).
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific, Australia.
- Habitat: 50-150 m., offshore on rocks.
- Original genus: *Murex*.

G2151 *C. (T.) brunneus* (LINK, 1807 in 1806-08)

(= *Murex versicolor* GMELIN, 1791; *Triplex rubicunda* PERRY, 1810 in 1810-11; *T. flavicunda* PERRY, 1810 in 1810-11; *M. adustus* LAMARCK, 1822 in 1815-22; *M. erithrostomus* DUFO, 1840; *Purpura scabra* MÖRCH, 1852; *Murex australiensis* A. ADAMS, 1854; *M. despectus* A. ADAMS, 1854; *M. huttoniae* WRIGHT, 1878; *M. digacanthus* EUTHYME, 1889)

Ganzeki-bora

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P5-P7, EC5, ECP4-ECP2, P2; Philippines, Indo-western Pacific, east Africa, Australia.
- Habitat: intertidal to 20 m., mud or sand in coral reefs.
- Original genus: *Purpurea*.

G2152 *C. (T.) cnissodus* (EUTHYME, 1889)

(= *C. aculeatus sensu* ZHANG, 1965; *C. cnissodus (sic) sensu* HABE, 1964 *err. pro -odus*)

Shiro-ganzeki

- Type locality: New Caledonia.
- Distribution: Enshū-nada (off Atsumi peninsula, Aichi prefecture KIMURA, 1996-a), Kii peninsula (KOYAMA, 1997) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, western Pacific.
- Habitat: 20-150 m., rocks.
- Original genus: *Murex*.

G2153 *C. (T.) aculeatus* (LAMARCK, 1822 in 1815-22)

(= *C. artemis* RADWIN & D'ATTILIO, 1976; *C. rossiteri sensu* DUCOUET & MUHLHAUSSER, 1983)

Ko-senju-gai

- Type locality: none originally given; designated 'Punta Engaño, Mactan, Philippines' (HOUART, 1992).
- Distribution: Kii peninsula (KOYAMA, 1997) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines.
- Habitat: 20-100 m., rocks.
- Original genus: *Murex*.

**Notes:** *Aranea aculeata* PERRY, 1811 is not a homonym of this species (HOUART, 1992).

G2154 *C. (T.) nobilis* SHIKAMA, 1977

(= *Murex aculeatus* REEVE, 1845 *non* LAMARCK, 1822 in 1815-22; *C. rossiteri sensu* FAIR, 1976 *non* CROSSE, 1872; *C. aculeatus sensu* CERNOHORSKY, 1967; *C. (C.) rossiteri sensu* FAIR, 1976; *Murex artemis sensu* LEEHMAN, 1978; *C. artemis sensu* SPRINGSTEEN & LEOBRERA, 1986)

Kurenai-senju

- Type locality: off Cebu island, Philippines.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Australia, western Pacific.
- Habitat: 10-100 m., coral rubble.

G2155 *C. (T.) rossiteri* (CROSSE, 1872-b)

(= *C. saltatrix* KURODA, 1964; *Murex (Chicoreus) artemis sensu* EISENBERG, 1981)

Maihime-senju (= Maiko-senju)

- Type locality: Lifu, Loyalty islands (New Caledonia).
- Distribution: Kii peninsula (KOYAMA, 1997) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Papua New Guinea, New Caledonia.
- Habitat: 50-200 m., rubble.
- Original genus: *Murex*.

G2156 *C. (T.) ryukyuensis* SHIKAMA, 1978-a

(= *C. (T.) ryosukei sensu* SHIKAMA, 1978)

Ko-ganzeki-modoki

- Type locality: Okinawa islands.
- Distribution: recorded only from type locality.

Subgenus *Siratus* JOUSSEAUME, 1880 in 1880-81

Type species: '*Purpura sirat* ADANSON' *sensu* JOUSSEAUME, 1880 (o. d.; = *Murex senegalensis* GMELIN, 1791)

G2157 *C. (S.) alabaster* (REEVE, 1845 in 1843-65)

Ganzeki-bashō

- Type locality: Cagayan island, Mindanao, Philippines. On beach.
- Distribution: southern Shikoku and southwards, P5, EC5, ECP4-ECP2, P2; Philippines.
- Habitat: 50-200 m., coarse sand and stones.
- Original genus: *Murex*.

G2158 *C. (S.) pliciferoides* KURODA, 1942-b  
(= *Murex pliciferus* SOWERBY II, 1841-b non BIVONA, 1832; *Murex (Siratus) propinquus* KURODA & AZUMA in AZUMA, 1961-b; *Siratus hirasei* SHIKAMA, 1973; *S. vicidani* KOSUGE, 1980-d)

Hakki-gai (= Sekitori-hakki; Takasago-hakki)

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, East China Sea, P2; Philippines, western Australia, Solomon islands, New Caledonia.
- Habitat: 50-500 m., fine sand.

Subgenus *Chicopinnatus* HOUART, 1992

Type species: *Pterynotus orchidiflorus* SHIKAMA, 1972 (o. d.)

G2159 *C. (C.) orchidiflorus* (SHIKAMA, 1973)  
(= *C. subtilis* HOUART, 1977; *Pterynotus cerinamarumai* (err. pro *celina*-) KOSUGE, 1980-d; *C. (C.) orchidiformis sensu* ABBOTT & DANCE, 1982 err. pro *-florus*)

Katoreya-bashō (= Momiji-bashō)

- Type locality: none originally given; designated 'Taiwan' (HOUART 1992).
- Distribution: Okinawa islands and southwards, ECP2, P2; Taiwan, Philippines, New Caledonia, Polynesia, Réunion, Mauritius.
- Habitat: 20-150 m., offshore on coarse sand and stones.
- Original genus: *Pterynotus*.

G2160 *C. (C.) laqueatus* (SOWERBY II, 1841-b)

Mizukaki-yōraku (= Hi-iro-bashō; Kujaku-bashō)

- Type locality: none designated.
- Distribution: Okinawa (off Manzano), ECP2, P2; Philippines, Kwajalein, Guam, Tahiti, Hawaii.
- Habitat: 15-45 m., under boulders.
- Original genus: *Murex*.

□ Genus *Chicomurex* ARAKAWA, 1964

Type species: *Murex superbus* SOWERBY III, 1889 (o. d.)

G2161 *Ch. superbus* (SOWERBY III, 1889-b)  
(= *Murex (Chicoreus) supersus sensu* SHIKAMA, 1963 err. pro *-bus*)

Ogasawara-ganseki

- Type locality: Hong Kong.
- Distribution: Ogasawara islands and westwards, P11, Kii peninsula (KOYAMA, 1997) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Australia.
- Habitat: 50-325 m., under coral and on rocks.
- Original genus: *Murex*.

G2162 *Ch. elliscrossi* (FAIR, 1974)

(= *Naquetia* cf. *laciniatus sensu* D'ATTILIO, 1966; *C. laciniatus sensu* HABE, 1968 non SOWERBY II, 1841; *Phyllonotus superbus sensu* RADWIN & D'ATTILIO, 1976 (pars) non SOWERBY, 1889)

Kazari-ganzekei

- Type locality: off Kii peninsula, central Honshū.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines.
- Habitat: 50-100 m., rocks.
- Original genus: *Chicoreus*.

G2163 *Ch. laciniatus* (SOWERBY II, 1841 in 1832-41)

(= *Murex scabrosus* SOWERBY II, 1841; *Ch. filialis* SHIKAMA, 1971; *Phyllonotus superbus sensu* HINTON, 1979 non SOWERBY, 1889-b)

Otohime-ganzekei

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Indo-western Pacific, Australia, northeastern Africa, Marshall islands.
- Habitat: 40-200 m., under coral and on sand.
- Original genus: *Murex*.

G2164 *Ch. problematicus* (LAN, 1981)

(= *Siratus superbus sensu* ABBOTT & DANCE, 1982; *Phyllonotus superbus sensu* OKUTANI, 1983)

Kumadori-ganzekei (= Tsuzure-ganzekei; Tomadoi-ogasawara-ganzekei)

- Type locality: off Bohol, Philippines; 300 m.
- Distribution: Kii peninsula (KOYAMA, 1988) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Australia.
- Habitat: 40-300 m., under coral and on rocks.
- Original genus: *Phyllonotus* (as ssp. of *P. superbus*).

G2165 *Ch. venustus* (REHDER & WILSON, 1975)

(= *Chicoreus gloriosus* SHIKAMA, 1977; *Chicoreus superbus sensu* KAICHER, 1973)

Marukesasu-ganzekei (= Utahime-senju)

- Type locality: southwest off Tahuata, Marquesas islands, 36-39 fms.
- Distribution: Kii peninsula (KOYAMA, 1988) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Réunion, Mauritius, Australia, Marquesas.
- Habitat: 45-100 m., coral and rocks.
- Original genus: *Chicoreus (Chicomurex)*.

□ Genus *Naquetia* JOUSSEAUME, 1880 in 1880-81

Type species: *Murex triqueter* BORN, 1778 (o. d.)

(= *Triplex* HUMPHREY in HARRIS, 1897 non PERRY, 1810 in 1810-11; *Rhizophorimurex* ŌYAMA, 1950)

G2166 *N. triqueter* (BORN, 1778)

(= *Purpura cancellata* RÖDING, 1798; *P. variegata* RÖDING, 1798; *Triplex flexuosus* PERRY, 1811; *Murex trigonulus* LAMARCK, 1816; *M. roseotinctus* SOWERBY, 1860; *Chicoreus (Naquetia) triquetra sensu* SPRINGSTEEN & LEOBRERA, 1986 err. pro *-ter*)  
Hime-bashō

- Type locality: 'East Indies and Tranquebar' (MARTINI, 1777) restricted to 'Tranquebar, India' (VOKES, 1974).
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2; Indo-western Pacific, Samoa, Tuamotos.
- Habitat: 20-100 m., rocks.
- Original genus: *Murex*.

G2167 *N. barclayi* (REEVE, 1857)

- (= *Pteronotus* (*sic*) *annandalei* PRESTON, 1910; *Murex* (*Naquetia*) *barclayi sensu* SHIKAMA, 1964 *err. pro -layi*; *N. annandalei sensu* KAICHER, 1973; OKUTANI, 1983) Kintoki-bashō (= Bārūkurei-bashō)
- Type locality: St. Brandon shoal, Mauritius.
  - Distribution: Kii peninsula (KOYAMA, 1997) and southwards, P5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Australia.
  - Habitat: 50-200 m., rocks.
  - Original genus: *Murex*.

G2168 *N. cumingii* (A. ADAMS in H. & A. ADAMS, 1853-58)

- (= *Murex trigonulus* LAMARCK, 1822 in 1815-22 *non* LAMARCK, 1816; *M. jickelii* TAPPARONE-CANEFRI, 1875; *M. (Chicoreus) triqueter var. amamuensis* COUTURIER, 1907; *M. (Pteronotus) triqueter sensu* SMITH, 1933; CERNOHORSKY, 1967; *Pterynotus (Naquetia) trigonulus sensu* CERNOHORSKY, 1971; *N. trigonulus sensu* HABE, 1964; ABBOTT & DANCE, 1982; *N. annandalei sensu* SHARABATI, 1984) Hirase-hime-bashō
- Type locality: 'Philippines'.
  - Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, southwestern Madagascar, Red Sea, Sri Lanka, Celebes, Guam, Marshall islands, Samoa, Tuamotos.
  - Habitat: 20-100 m., rocks.
  - Original genus: *Pteronotus*.

□ Genus *Pterynotus* SWAINSON, 1833

Type species: *Murex pinnatus* SWAINSON, 1822 (= *Pteronotus* SWAINSON, 1833 *non* RAFINESQUE, 1815; *Marchia* JOUSSEAUME, 1880; *Morchia sensu* BAKER, 1891 *err. pro Mar-*; *Pterymurex* ROVERETO, 1899; *Triplex sensu* NEWTON, 1891 *non* PERRY, 1810 in 1810-11)

G2169 *P. pinnatus* (SWAINSON, 1822)

- (= *Purpura alata* RÖDING, 1798 *non* GMELIN, 1791; *P. alatus sensu* RADWIN & D'ATTILIO, 1976) Bashō-gai
- Type locality: none designated.
  - Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, western Pacific, eastern Indian Ocean, Australia.

- Habitat: subtidal to 50 m., rocks.
- Original genus: *Murex*.

G2170 *P. elongatus* (LIGHTFOOT, 1786)

- (= *Murex clavus* KIENER, 1841 *non* MICHELOTTI, 1841) Karasuki-gai
- Type locality: none designated.
  - Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific, Australia.
  - Habitat: intertidal to 100 m., rocks.
  - Original genus: *Murex*.

G2171 *P. bipinnatus* (REEVE, 1845 in 1843-65)

- Hime-karasuki
- Type locality: none designated.
  - Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Indo-western Pacific, Australia.
  - Habitat: subtidal to 50 m., rubble.
  - Original genus: *Murex*.

G2172 *P. loebbeckei* (KOBELT in LÖBBECKE & KOBELT, 1879)

- (= *M. lobeckii sensu* SHIKAMA & HORIKOSHI, 1963 *err.*) Bara-iro-bashō (= Beni-bashō; Hirase-chijimi-bashō)
- Type locality: 'in Oceano Indochinensis?'
  - Distribution: Kii peninsula (KOYAMA, 1997) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, South China Sea, Australia.
  - Habitat: 100-200 m., rocks.

G2173 *P. miyokoe* KOSUGE, 1979-a

- Miyoko-bashō (= Nise-bara-iro-bashō)
- Type locality: off Mactan island, Philippines; 200 m.
  - Distribution: off Kii peninsula; Philippines (Cebu; southern Mindanao).
  - Habitat: 100-200 m.

G2174 *P. pellucidus* (REEVE, 1845 in 1843-65)

- Hirebiro-bashō
- Type locality: Bantayan island, Philippines; 7 fms., coral.
  - Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
  - Habitat: 10-100 m., rocks.
  - Original genus: *Murex*.

G2175 *P. tripterus* (BORN, 1778)

- Chijimi-bashō
- Type locality: none designated.
  - Distribution: Kii peninsula (KOYAMA, 1997) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-western Pacific, Australia.
  - Habitat: 10-50 m., rocks.
  - Original genus: *Murex*.

G2176 *P. martineta* (RÖDING, 1798)

(= *Murex fenestrata* DILLWYN, 1817; *P. martineata sensu* KOYAMA, 1997)

Kōshi-yōraku (= Kōshi-ichō)

- Type locality: none designated.
- Distribution: Kii peninsula (KOYAMA, 1997), P11, Ogasawara islands, Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific.
- Habitat: intertidal to 30 m., coarse sand and stones.
- Original genus: *Purpura*.

G2177 *P. bibbeyi* RADWIN & D'ATTILIO, 1976

Onaga-bashō

- Type locality: Kii strait (central Honshū), 300 m.
- Distribution: Kii peninsula and southwards, southern Shikoku, western Kyūshū.
- Habitat: 20-300 m., rocks.

G2178 *P. barclayanus* (H. ADAMS, 1873)

(= *Murex lienardi* CROSSE, 1873; *P. purpureus* AZUMA, 1976-a)

Beni-ganzeki (= Murasaki-ganzeki; Ruri-ganzeki)

- Type locality: Mauritius.
- Distribution: Kii peninsula (KOYAMA, 1997) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Mauritius, Solomon islands.
- Habitat: 20-300 m., rocks.
- Original genus: *Coralliophila*.

□ Genus *Homalocantha* MÖRCH, 1852

Type species: *Murex scorpio* LINNAEUS, 1758

(= *Homalocantha sensu* KOBELT, 1877 *err. pro Homalo-*; *Homolocantha sensu* LUDBROOK, 1958 *err. pro Homa-*)

G2179 *H. scorpio* (LINNAEUS, 1758)

(= *Murex varicosus* SOWERBY, 1834; *M. digitatus* SOWERBY II, 1841; *H. fauroti* JOUSSEAUME, 1888)

Toge-naga-ichō (= Sasori-ichō; Arabiya-ichō)

- Type locality: 'in *O. Asiatico*' (Asian seas).
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Indonesia, Red Sea.
- Habitat: intertidal to 100 m., rocks.

G2180 *H. anatomica* (PERRY, 1811)

(= *Murex rota* MAWE, 1823; *M. pele* PILSBRY, 1918)

Ichō-gai

- Type locality: East Indies.
- Distribution: Kii peninsula (KOYAMA, 1997) and southwards, P5, EC5, ECP4-ECP2, P2; Korea, Philippines, Indo-Pacific, Australia.
- Habitat: intertidal to 50 m., rocks.
- Original genus: *Hexaplex*.

G2181 *H. anomaliae* KOSUGE, 1979

Yase-ichō-gai

- Type locality: off Mactan island, Cebu, Philippines. 100 m.
- Distribution: Okinawa and southwards, ECP2, P2; Philippines.
- Habitat: 50-100 m., rocks.

G2182 *H. zamboi* BURCH & BURCH, 1960

(= *Murex (Homalocantha) rota sensu* SHIKAMA & HORIKOSHI, 1963)

Tonaki-ichō

- Type locality: Baring point, Olango Island, Cebu, Philippines; 10-11 fms.
- Distribution: Yaeyama islands (Kuroshima MORIOKA, 1993), P2; Philippines, Solomon islands.
- Habitat: intertidal on coral reefs.
- Original genus: *Murex* (as *var.* of *M. anatomica*).

□ Genus *Aspella* MÖRCH, 1877

Type species: *Ranella anceps* LAMARCK, 1822

**Note:** no type or figure exist for *R. anceps* (RADWIN & D'ATTILIO, 1976); its status is thus uncertain. The species here are provisionally placed in *Aspella* pending further study.

G2183 *A. platylaevis* RADWIN & D'ATTILIO, 1976

Moro-ha-bora

- Type locality: Woodman's point, Cockburn Sound, Western Australia.
- Distribution: Kii peninsula southwards, P5, EC5, ECP4-ECP2; Australia.

G2184 *A. producta* (PEASE, 1861)

(= *Bursa lamellosa* DUNKER, 1862)

Arabori-moro-ha-bora

- Type locality: 'Sandwich Islands' (Hawaii).
- Distribution: Kii peninsula (KOYAMA, 1997), Amami islands and southwards, ECP3-ECP2, P2; tropical Indo-Pacific.
- Habitat: subtidal to 10 m., rubble.
- Original genus: *Ranella*.

□ Genus *Dermomurex* MONTEROSATO, 1890

Type species: '*Murex scalarina* BIVONA' (= *Murex scalaroides* BLAINVILLE, 1829)

(= *Poweria* MONTEROSATO, 1884 *non* BONAPARTE, 1840; *Hexachorda* COSSMANN, 1903)

Subgenus *Dermomurex s. str.*

G2185 *D. (D.) neglecta* (HABE & KOSUGE, 1970-d)

Wasure-yōraku

- Type locality: South China Sea, landed at Kaohsiung (Takao), Taiwan.
- Distribution: Kii peninsula (Cape Shio) and southwards, P5, western Kyūshū (off Ushibuka), ECP4-ECP2, P2; Philippines.

- Habitat: 10-100 m., rocks.
- Original genus: *Phyllocoma*.

Subgenus ***Takia* KURODA, 1953-c**

Type species: *Murex inermis* SOWERBY II, 1841 non PHILIPPI, 1836 (o. d.; = *Dermomurex infrons* VOKES, 1974)

G2186 ***D. (T.) infrons* VOKES, 1974-a**

(= *Murex inermis* SOWERBY II, 1841 non PHILIPPI, 1836; *Trophonopsis inermis sensu* KURODA & HABE, 1952-a)

Ō-shiroi-tsuno-ori-ire

- Type locality: '*ad mare Japonicum*' (Japanese seas).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Sado island, J3-J1), EC5.
- Habitat: 50-300 m., coarse sand and stones.
- Original genus: *Murex*.

□ Genus ***Attiliosa* EMERSON, 1968**

Type species: *Coralliophila incompta* BERRY, 1960 (o. d.)

G2187 ***A. nodulifera* (SOWERBY II, 1841-b)**

(= *Muricidea caledonica* JOUSSEAUME, 1881)

Ryūkyū-yōraku

- Type locality: '*ad insulam Masbate*' (Masbate, Philippines); 'Found in coral reefs'.
- Distribution: Izu islands and southwards, P6-P5, ECP4-ECP2; central Indo-western Pacific, Australia.
- Habitat: intertidal to 10 m., rocks.
- Original genus: *Murex*.

Subfamily **MURICOPSINAE RADWIN & D'ATTILIO, 1971**

□ Genus ***Muricopsis* BUCQUOY *et al.*, 1882**

Type species: *Murex blainvillei* PAYRAUDEAU, 1826

(= *Muricidea auct. non* SWAINSON, 1840; *Jania* BELLARDI in COSSMANN, 1882)

Subgenus ***Murexsul* IREDALE, 1915**

Type species: *Murex octogonus* QUOY & GAIMARD, 1833 (o. d.)

(= *Murexul sensu* HABE, 1961 *err. pro -xsul*)

G2188 ***M. (Murexsul) multispinosus* (SOWERBY III, 1904-a)**

(= *Poirieria azami* KURODA, 1929-b)

Azami-tsuburi

- Type locality: Island of Cebu, Philippines.
- Distribution: Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986) and southwards, P7-P5, Japan Sea (Wakasa Bay, J2-J1), EC5, ECP4-ECP2, P2; Philippines.
- Habitat: 50-200 m., sand.
- Original genus: *Murex*.

G2189 ***M. (Murexsul) zonatus* (HAYASHI & HABE, 1965-a)**

Shima-azami-tsuburi

- Type locality: Enshū-nada (off Aichi prefecture, central Honshū), ± 200 m.
- Distribution: Izu peninsula and westwards, Kii peninsula (KOYAMA, 1997).
- Habitat: 50-200 m., sand.
- Original genus: *Murexsul*.

G2190 ***M. (Murexsul) tokubeii* (NAKAMIGAWA & HABE, 1964)**

Onaga-arare-tsuburi

- Type locality: off Cape Ashizuri, southwestern Shikoku; 50 m.
- Distribution: west off Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986), Kii peninsula (KOYAMA, 1997), southern Shikoku; Taiwan.
- Habitat: 50-200 m., sand.
- Original genus: *Murexsul*.

G2191 ***M. (Murexsul) interserrata* (SOWERBY II, 1879 in 1842-87)**

(= *Murex (Phyllonotus) cirrosus* HINDS *var. sensu* Y.

HIRASE, 1907; '*Ocenebra? cirrosa*' *sensu* KURODA & HABE, 1952-a; *Murexul (sic) cirrosa sensu* HABE, 1964) Hinano-kamuri

- Type locality: 'China Sea'.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Korea, Philippines.
- Habitat: 20-150 m., coarse sand and stones.
- Original genus: *Murex*.

G2192 ***M. (Murexsul) ednae* (M. SMITH, 1940)**

Kōmori-tsuburi

- Type locality: 'off the coast of Japan, deep water'.
- Distribution: off southern Shikoku.
- Habitat: 50-200 m., sand.
- Original genus: *Murex (Murexsul)*.

G2193 ***M. (Murexsul) aurata* (KURODA & HABE in KURODA *et al.*, 1971)**

Kogame-hime-yōraku

- Type locality: off Jōgashima, Miura peninsula, eastern Sagami bay, central Honshū; 65-67 m.
- Distribution: Kii peninsula (KOYAMA, 1997), Sagami bay.
- Habitat: 50-100 m., coarse sand and stones.
- Original genus: *Murexsul*.

G2194 ***M. (Murexsul) balteata* (SOWERBY II, 1841-b)**

(= *Ocenebra fuscofrondosa* SCHEPMAN, 1911 in 1908-13)

Arare-tsuburi (= Arare-yōraku; Akane-yōraku)

- Type locality: '*ad insulam Masbate, Philippinarum*' (Masbate, Philippines); 'Found in coral reefs'.
- Distribution: Suruga bay and southwards, P6-P5, East

China Sea, western Kyūshū, ECP4-ECP2, P2; Philippines, Indo-Pacific.

- Habitat: 10-50 m., rocks.
- Original genus: *Murex*.

□ Genus *Favartia* JOUSSEAUME, 1880

Type species: *Murex breviculus* SOWERBY II, 1834 (= *Minnimurex* WOOLACOTT, 1957)

G2195 *F. brevicula* (SOWERBY II, 1834 in 1821-41) (= *Murex (Ocinebra) tetragonus* BRODERIP *sensu* Y. HIRASE, 1907; *F. brevicula sensu* HIGO & GOTŌ, 1993 *err. pro brev-*)

Hishi-yōraku

- Type locality: none designated.
- Distribution: Izu peninsula and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Indo-western Pacific, Australia.
- Habitat: intertidal to 20m, rocks.
- Original genus: *Murex*.

G2196 *F. pelepili* D'ATTILIO & BERTSCH, 1980

Akame-yōraku (= Perepiri-yōraku)

- Type locality: Bohol straits, Philippines.
- Distribution: Kii peninsula (KOYAMA, 1997) and southwards, P5, EC5; Philippines.
- Habitat: 50-150 m., rocks.

G2197 *F. kurodai* NAKAMIGAWA & HABE, 1964

Kuroda-yōraku

- Type locality: Minato, Izu district, Izu peninsula, central Honshū.
- Distribution: Izu peninsula and southwards, Kii peninsula (KOYAMA, 1997), P6-P5, western Kyūshū.
- Habitat: subtidal to 20 m., rocks.

G2198 *F. munda* (REEVE, 1849 in 1843-65)

(= *Murex exiguus* REEVE, 1845 *non* BRODERIP, 1833) Gokaku-yōraku (= Kobito-ganzeki)

- Type locality: 'St. Nicolas, Island of Zebu (Cebu), Philippines'.
- Distribution: Ogasawara islands (FUKUDA, 1995), Kii peninsula (KOYAMA, 1997) and southwards, P5, ECP4-ECP2.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Murex*.

**Notes:** Reeve used *M. exiguus* in the text but corrected it to *M. munda* in the index.

G2199 *F. morisakii* KURODA & HABE in HABE, 1961-a

Morisaki-yōraku

- Type locality: Shirasaki (cape), Yura district, Wakayama prefecture, central Honshū.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2.

- Habitat: intertidal to 20 m., rocks.

G2200 *F. rosea* HABE, 1961-a

Bara-iro-toge-yōraku

- Type locality: Shirasaki (cape), Yura district, Wakayama prefecture, central Honshū.
- Distribution: Kii peninsula and southwards, P5, EC5.
- Habitat: intertidal to 20 m., rocks.

G2201 *F. jeanae* BERTSCH & D'ATTILIO, 1980

(= *F. jeanae sensu* HIGO & GOTŌ, 1993 *err. pro jean-*) Orenji-yōraku

- Type locality: off Punta Engaño, Mactan Island, Philippines; 80-100 m.
- Distribution: Kii peninsula (off Minabe KOYAMA, 1992); Philippines.
- Habitat: 80-100 m., rocks.

G2202 *F. guamensis* EMERSON & D'ATTILIO, 1979

Tōdaka-yōraku

- Type locality: off Orote Cliffs, Guam, 18-21 m., under large boulders.
- Distribution: Amami Ōshima (Kominato, Naze; Katoku, Seto-uchi; Tsuchihama EKAWA *et al.*, 1993); Hawaii, Kwajalein, Mozambique.

G2203 *F. cyclostoma* (SOWERBY II, 1841-b)

(= *Murex nucula* REEVE, 1845)

Shiro-hishi-yōraku

- Type locality: '*ad insulam Bohol, Philippinarum*' (Bohol, Philippines); 'Sandy mud, 7 fathoms.- Loay'.
- Distribution: Kii peninsula (Kushimoto; Cape Shio KOYAMA, 1997); 'Pacific coast, 10°-34° N.' (KURODA & HABE, 1952-a); Philippines.
- Original genus: *Murex*.

□ Genus *Murexiella* CLENCH & FARFANTE, 1945

Type species: *Murex hidalgoi* CROSSE, 1869 (o. d.)

G2204 *M. rosamiae* (D'ATTILIO & MYERS, 1985)

Rōza-toge-yōraku (= Tsuzure-yōraku)

- Type locality: Cebu, Bohol straits, Philippines; 75-100 m.
- Distribution: Okinawa islands, ECP2, P2; Philippines.
- Habitat: 50-150 m.
- Original genus: *Favartia* (*Murexiella*).

G2205 *M. leonae* (D'ATTILIO & MYERS, 1985)

Katasode-toge-yōraku

- Type locality: Bolo point (Cape Zanpa), Okinawa; 55 m.
- Distribution: Ogasawara islands (FUKUDA, 1995), Amami islands and southwards, ECP3-ECP2, P2; Philippines.
- Habitat: 50-100 m.
- Original genus: *Favartia* (*Murexiella*).

G2206 *M. maculata* (REEVE, 1845 in 1843-65)

(= *Murex pumilus* A. ADAMS, 1854 *non* BRODERIP,



1833; *Favartia maculosa* MELVILL & STANDEN, 1899; *F. salmonea* MELVILL & STANDEN, 1899; *F. dorothyae* EMERSON & D'ATTILIO, 1979)

Doroshii-yōraku

- Type locality: none designated.
- Distribution: Ogasawara islands (FUKUDA, 1995), Kii peninsula (Minabe; Kushimoto KOYAMA, 1988); Philippines, Indian Ocean.
- Habitat: subtidal to 20 m., rocks.
- Original genus: *Favartia*.

□ Genus *Pygmaepterys* VOKES, 1978

Type species: *Murex alfredensis* BARTSCH, 1915 (o. d.)

G2207 *P. bellini* (D'ATTILIO & MYERS, 1985)

Ryūkyū-hiiragi

- Type locality: Okinawa, 52 m.
- Distribution: recorded only from type locality.
- Original genus: *Favartia* (*Pygmaepterys*).

Subfamily TROPHONINAE COSSMANN, 1903

(Refs.: Egorov, 1993)

□ Genus *Abysstrophon* EGOROV, 1993

Type species: *Abysstrophon ruthenicus* EGOROV, 1993 (o. d.)

G2208 *A. ruthenicus* EGOROV, 1993

Sazanami-tsuno-ori-ire

- Type locality: southeastern Kuril islands: 44° 36' N., 149° 07' E., 1710-1880 m.
- Distribution: Hokkaidō and northeastwards, OP.
- Habitat: 1500-2000 m.

G2209 *A. hadalis* (SYSOEV, 1992)

Maru-tsuno-ori-ire

- Type locality: northern Kuril-Kamchatka trench: 49° 29' N., 158° 41' E. and 41° 17' N., 145° 50' E., 7210-7230 m.
- Distribution: southeastern Hokkaidō, Kuril islands; Kamchatka peninsula.
- Original genus: *Boreotrophon*.

G2210 *A. soyoae soyoae* (OKUTANI, 1959-a)

Kumano-tsuno-ori-ire

- Type locality: 'Sōyō-Marū' sta. 18, Kumano-nada off Misaki, eastern Kii peninsula, central Honshū: 33° 48.7' N., 136° 34.8' E., 2050 m., blue mud.
- Distribution: Kuril islands and southwards, Suruga bay, Enshū-nada, Kumano-nada, Tosa bay.
- Habitat: 430-5070 m., mud.
- Original genus: *Trophonopsis*.

G2211 *A. soyoae minimus* (OKUTANI, 1964-b)

Mame-tsuno-ori-ire

- Type locality: 'Sōyō-Marū' sta. 17, Kashima-nada, off Ibaraki prefecture, central Honshū: 36° 19.7' N., 141° 09.0' E., 870 m.

• Distribution: Kashima-nada, Hokkaidō (off cape Esan), P10-P8.

• Habitat: 800-1250 m.

• Original genus: *Trophonopsis*.

G2212 *A. soyoae multicostata* (GOLIKOV & SIRENKO, 1992)

Hire-kumano-tsuno-ori-ire

- Type locality: off northern Kuril islands: 48° 15.5' N., 154° 45.5' E., 140 m.
- Distribution: Kuril islands and northwards, OP.
- Habitat: 100-200 m.
- Original genus: *Trophonopsis*.

G2213 *A. odiseyi* (GOLIKOV & SIRENKO, 1992)

Odisei-tsuno-ori-ire

- Type locality: Kuril islands, east off Iturup island: 44° 48.5' N., 149° 30.0' E., 1100 m.
- Distribution: eastern Hokkaidō, OP.
- Habitat: 1000-1100 m.
- Original genus: *Trophonopsis*.

G2214 *A. ivanovi* EGOROV, 1993

Katakado-tsuno-ori-ire

- Type locality: Kuril-Kamchatka trench: 44° 07' N., 149° 34' E., 6136-6117 m.
- Distribution: eastern Hokkaidō and northwards, OP.
- Habitat: 5000-6200 m.

G2215 *A. unicus* EGOROV, 1993

Hime-sazanami-tsuno-ori-ire

- Type locality: Kuril-Kamchatka trench: 40° 12.0' N., 143° 35.8' E., 2500 m.
- Distribution: Aomori prefecture and northeastwards, P10-OP.
- Habitat: 1500-2500 m.

G2216 *A. longisiphon* EGOROV, 1993

Nagahashi-sazanami-tsuno-ori-ire

- Type locality: Kuril-Kamchatka trench: 42° 32.2' N., 150° 41.5' E., 5140 m.
- Distribution: southeastern Hokkaidō and northwards, OP.
- Habitat: 5000-5500 m.

G2217 *A. tricostatus* EGOROV, 1993

Chirimen-sazanami-tsuno-ori-ire

- Type locality: Kuril-Kamchatka trench: 45° 30' N., 154° 20' E., 5220 m.
- Distribution: northeastern Hokkaidō, P2.
- Habitat: 5000-5300 m.

□ Genus *Trophonopsis* BUCQUOY *et al.*, 1882

Type species: *Murex muriculatus* MONTAGU, 1803 (o. d.)

G2218 *T. delicatus* KURODA, 1953-c

Hinano-tsuno-ori-ire

- Type locality: 'Sōyō-Marū' sta. 126, off Ishinomaki,

Sendai Bay, Miyagi prefecture, northeastern Honshū; 146 m., fine sand.

- Distribution: northeastern Honshū (Ōtsuchi bay TSUCHIDA, 1991), P9-P5 (Sagami bay OKUTANI, 1964-b), EC5.

- Habitat: 100-500 m., fine sand.

G2219 *T. concinna* (A. ADAMS, 1863-b)

Mushiro-tsuno-ori-ire

- Type locality: 'Rifunsiri' (Rishiri island, northwestern Hokkaidō); 35 fms.

- Distribution: recorded only from type locality.

- Original genus: *Trophon*.

G2220 *T. tantilla* (A. ADAMS, 1863-b)

Chiisa-tsuno-ori-ire

- Type locality: off Cape Sata, Kagoshima prefecture, Kyūshū; 55 fms.

- Distribution: recorded only from type locality.

- Original genus: *Trophon*.

G2221 *T. polycyma* KURODA, 1953-c

Kagerō-tsuno-ori-ire

- Type locality: 'Sōyō-Marū' sta. 259, Suruga bay; 188 m., on clean sandy mud.

- Distribution: Sagami bay and southwards, Suruga bay, Enshū-nada, Kii peninsula (KOYAMA, 1997); southwestern Indian Ocean.

- Habitat: 150-200 m., fine sand.

G2222 *T. crystallinus* KURODA, 1953-c

Chijiwa-tsuno-ori-ire

- Type locality: 'Sōyō-Marū' sta. 58, off Miyako, Iwate prefecture, northeastern Honshū; 177 m., sandy mud.

- Distribution: Kuril islands and southwards, OP, P10-P9.

- Habitat: 100-200 m., sandy mud.

**Note:** Itohiki-tsuno-ori-ire *Trophon tenuisculptus* CARPENTER, 1864-a, has been recorded from Hokkaidō; the type is a Pleistocene fossil from Santa Barbara, California, and this species is not considered to be distributed in Japan by the present authors.

G2223 *T. kamchatkanus* (DALL, 1902-b)

Chigo-ori-ire

- Type locality: 'Albatross' sta. 3644: southeastern coast of Kamchatka, 96 fms.

- Distribution: northern Japan Sea, P10, OP; southern Bering Sea.

- Habitat: 95-1530 m.

- Original genus: *Boreotrophon*.

G2224 *T. densilamellatus* GOLIKOV & GULBIN, 1977

Nunome-tsuno-ori-ire (= Fukurin-tsuno-ori-ire)

- Type locality: off Urup, Kuril islands; 5 m. (R. V. 'Krylatka').

- Distribution: Hokkaidō (Kushiro; off Erimo peninsula), J5, OP, Kuril islands (Urup, Simushir, Ekarana, Paramushir).

- Habitat: 5-180 m., sand.

G2225 *T. ziczac* CHIBA, 1981-b

Inazuma-tsuno-ori-ire

- Type locality: off Kushimoto, Kii peninsula, central Honshū; 200-250 m.

- Distribution: Kii peninsula and southwards, P5, Japan Sea (off central Niigata prefecture, J3-J2); southwestern Indian Ocean.

- Habitat: 150-300 m., mud.

G2226 *T. modestus* (SOWERBY II, 1880)

- Type locality: 'Japan'.

- Distribution: unknown.

- Original genus: *Trophon*.

G2227 *T. orpheus* (GOULD, 1849 in 1846-50)

Ara-nunome-ori-ire

- Type locality: Puget Sound, Washington State, USA.

- Distribution: Hokkaidō and northwards, Kuril islands; Bering Sea, Alaska, northwestern USA.

- Original genus: *Fusus*.

G2228 *T. acharya* (YOKOYAMA, 1925)

Amime-tsuno-ori-ire

- Type locality: Sado island, Japan Sea (fossil).

- Distribution: Kuril islands.

- Original genus: *Trophon*.

G2229 *T. fabricii* (BECK in MÖLLER, 1842)

(= *T. fabricii sensu* CHIBA & KOSUGE, 1985 *err. pro -icii*)

Kōshi-tsuno-ori-ire

- Type locality: Greenland.

- Distribution: Hokkaidō and northwards; Bering Sea, Arctic Ocean, Greenland, Spitzbergen, Iceland.

- Habitat: 10-210 m.

- Original genus: *Trophon*.

G2230 *T. tegularis* GOLIKOV & GULBIN, 1977

Samehada-tsuno-ori-ire

- Type locality: off Shikotan, southern Kuril islands; 90 m., rocks.

- Distribution: Kuril islands and southwards, Hokkaidō (Rebun island).

- Habitat: 5-100 m., rocks.

G2231 *T. rossica* EGOROV, 1993

Kita-no-amime-tsuno-ori-ire

- Type locality: Kuril islands: 43° 37.7' N., 147° 00.7' E., 180 m.

- Distribution: southeastern Hokkaidō, Kuril islands.

- Habitat: 100-180 m.

**Notes:** originally ssp. of *T. acharya*.

G2232 *T. nodulosa* **GOLIKOV in GOLIKOV & SCARLATO, 1985**

Katakago-tsuno-ori-ire

- Type locality: near Vzmor'ye, east coast of southern Sakhalin, 103 m.
- Distribution: Hokkaidō and northwards; off southern Sakhalin.
- Habitat: 57-103 m.

□ Genus *Boreotrophon* **FISCHER, 1884**

Type species: *Murex clathratus* LINNAEUS, 1767 (mt.)

G2233 *B. undocostata* (**GOLIKOV & SIRENKO, 1992**)

Hataenami-tsuno-ori-ire

- Type locality: Kuril islands: 48° 15.5' N., 154° 45.5' E., 140 m., gravel & stones.
- Distribution: Kuril islands.
- Habitat: 135-145 m.
- Original genus: *Trophonopsis*.

G2234 *B. cepula* (**SOWERBY II, 1880 in 1842-87**)

Niku-iro-tsuno-ori-ire

- Type locality: none designated.
- Distribution: Hokkaidō and northwards, Kuril islands; Sakhalin, Bering Sea, Alaska.
- Habitat: 5-10 m.
- Original genus: *Trophon*.

G2235 *B. paucicostatus* **HABE & ITŌ, 1965-b**

Tentoki-tsuno-ori-ire

- Type locality: Shana, Etorofu, Kuril islands.
- Distribution: Hokkaidō and northwards, P10, OP, Kuril islands; Bering Sea.
- Habitat: 50-160 m., mud.

G2236 *B. xestra xestra* **DALL, 1918**

Kesho-tsuno-ori-ire

- Type locality: off Sado island, Japan Sea; 200 fms, sandy mud.
- Distribution: Suruga bay and northwards, P6-P10 (Sagami bay OKUTANI, 1964-b), Japan Sea (Wakasa bay, J2-J5), Hokkaidō, OP, Kuril islands; Bering Sea.
- Habitat: 100-400 m., sandy mud.

G2237 *B. xestra nipponicus* (**YOKOYAMA, 1920**)

Yamato-tsuno-ori-ire

- Type locality: Koshiba and Teramae, Miura peninsula, eastern Sagami bay (fossil).
- Distribution: central Honshū (Sagami bay, 550-700 m.; Miyake island, Izu islands 1230-1350 m. OKUTANI, 1964-b).
- Original genus: *Trophon*.

G2238 *B. multicostatus* (**ESCHSCHOLTZ, 1829 in 1823-33**)

Hire-tsuno-ori-ire (= Kazuhida-tsuno-ori-ire)

- Type locality: 'An der Nordwestkuste Amerika's, an der Insel Sitcha' (Sitka island, Alaska).
- Distribution: Hokkaidō (off Otaru, 50-200 m., sandy mud); Alaska and Alaskan islands.
- Original genus: *Murex*.

G2239 *B. candelabrum* (**REEVE, 1848 in 1843-65**)

(= *Trophon subclavatus sensu* YOKOYAMA, 1920; *B. stephanus* Is. TAKI, 1938-a)

Tsuno-ori-ire

- Type locality: none designated.
- Distribution: western Seto inland sea (KAWAMOTO & TANABE, 1956), Kii peninsula (KOYAMA, 1997), Iwate prefecture (Ōtsuchi bay TSUCHIDA, 1991), P6-P10, Japan Sea (J3-J6), OP, Kuril islands; Sakhalin and southwards, eastern Korea, Primoriye region (Japan Sea coast of Russia).
- Habitat: intertidal to 40 m., coarse sand and stones.
- Original genus: *Fusus*.

G2240 *B. beringi* **DALL, 1902-b**

Ezo-tsuno-ori-ire (= Beringu-tsuno-ori-ire)

- Type locality: Nunivak island, Bering Sea.
- Distribution: Hokkaidō and northwards, Kuril islands; Kamchatka peninsula, Bering Sea.
- Habitat: 20-389 m., sand.

G2241 *B. pacificus pacificus* **DALL, 1902-b**

(= *Trophon scalariformis* ARNOLD, 1903 *non* GOULD, 1838; *T. multicostatus* ARNOLD, 1903)

Yaeba-tsuno-ori-ire

- Type locality: Sitka harbour, Alaska.
- Distribution: Hokkaidō and northwards, P10, Japan Sea (Noto peninsula, J3-J6), Kuril islands; Bering Sea.
- Habitat: 10-200 m., sand.

G2242 *B. pacificus aomoriensis* (**NOMURA & HATAI, 1940**)

Aomori-yaeba-tsuno-ori-ire

- Type locality: Kyuroku-jima, Aomori prefecture, northern Honshū (Japan Sea).
- Distribution: southeastern Hokkaidō (off Mitsuishi, Hidaka district), northern Japan Sea.
- Habitat: 30-50 m., sand.
- Original genus: *Trophon*.

G2243 *B. alaskanus* **DALL, 1902-b**

(= *B. alborostratus* Is. TAKI, 1938-a)

Shirohashi-tsuno-ori-ire (= Arasuka-tsuno-ori-ire; Yamasaki-tsuno-ori-ire)

- Type locality: 'Albatross' sta. 3227, Bering Sea north of Unalaska.
- Distribution: Kashima-nada and northwards, P8-P10, Hokkaidō, Kuril islands; Bering Sea.

- Habitat: 54-800 m., sand.

G2244 *B. cymatus* DALL, 1902-b

Sorihashi-tsuno-ori-ire

- Type locality: off Pribiloff islands, Bering Sea; 71 fms.
- Distribution: northeastern Hokkaidō and northwards, Kuril islands; Bering Sea, Okhotsk Sea.
- Habitat: 180-340 m., sand.

Notes: originally ssp. of *B. cepula*.

G2245 *B. flos* OKUTANI, 1964-b

Yaguruma-tsuno-ori-ire

- Type locality: 'Sōyō-Maru' sta. 17, Kashima-nada, off Ibaraki prefecture, central Honshū: 36° 19' N., 141° 09' E., 870 m.
- Distribution: Kashima-nada and northwards, P8-P9.
- Habitat: 600-1000 m., sand.

G2246 *B. ihitomus* (DALL, 1919-c)

Koshiboso-tsuno-ori-ire

- Type locality: USFC sta. 4255, Taiya inlet, southeastern Alaska; 253 fms.
- Distribution: southern Hokkaidō and northwards, Kuril islands; Bering Sea, Alaska.
- Habitat: 100-300 m., sand.
- Original genus: *Neptunea*.

G2247 *B. truncatus* (STRÖM, 1767)

Tōdaka-tsuno-ori-ire

- Type locality: North Sea (Europe).
- Distribution: southern Hokkaidō and northwards, P10, OP, Kuril islands; Alaska, Arctic, northern Atlantic Ocean.
- Habitat: 3-964 m.
- Original genus: *Buccinum*.

□ Genus *Nipponotrophon* KURODA & HABE in KURODA *et al.*, 1971

Type species: *Boreotrophon echinus* DALL, 1918 (o. d.)

G2248 *N. echinus* (DALL, 1918-a)

Kongō-tsuno-ori-ire

- Type locality: 'Sagami, Japan' (Sagami bay, central Honshū).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5 (Sagami bay OKUTANI, 1964-b); Taiwan.
- Habitat: 100-600 m., coarse sand and stones.
- Original genus: *Boreotrophon*.

G2249 *N. pagodus* (HAYASHI & HABE, 1965-a)

Yuki-no-togai

- Type locality: Enshū-nada (off Aichi prefecture, central Honshū), 300 m.
- Distribution: Enshū-nada and westwards, off Kii peninsula (KOYAMA, 1997), Tosa bay.
- Habitat: 150-300 m., sand.

- Original genus: *Boreotrophon*.

G2250 *N. gorgon* (DALL, 1913-a)

Oni-tsuno-ori-ire

- Type locality: 'Albatross' sta. 3698, off Central Honshū, Japan; 153 fms.
- Distribution: southern Kuril islands and southwards, OP, P10-P5 (Hachijō island, Izu islands OKUTANI, 1964-b), Kii peninsula (KOYAMA, 1997), Japan Sea (J4).
- Habitat: 100-800 m., sandy mud.
- Original genus: *Boreotrophon*.

G2251 *N. magnificus* (GOLIKOV & SIRENKO, 1992)

Hade-kongō-tsuno-ori-ire

- Type locality: east of Iturup, Kuril islands; 414 m., on sand, gravel and pebbles.
- Distribution: recorded only from type locality.

G2252 *N. scarlatoi* (GOLIKOV & SIRENKO, 1992)

Sukaratto-tsuno-ori-ire

- Type locality: east of Iturup, Kuril islands; 414 m., on sand, gravel and pebbles.
- Distribution: type locality; central to eastern Okhotsk Sea.
- Habitat: 175-414 m.
- Original genus: *Trophonopsis*.

G2253 *N. scitulus* (DALL, 1891)

(= *Trophon scitula emphaticus* HABE & ITŌ, 1965)

Suishō-tsuno-ori-ire (= Nami-jiwa-tsuno-ori-ire)

- Type locality: 'Albatross' sta. 3227, off Unalaska island, Bering Sea; 225 fms.
- Distribution: southeastern Hokkaidō and northwards, P10, OP, Kuril islands; Bering Sea, northwestern USA.
- Habitat: 17-267 m.
- Original genus: *Trophon* (*Boreotrophon*).

G2254 *N. elegantulus* (DALL, 1907-c)

Chirimen-tsuno-ori-ire

- Type locality: USFC sta. 4784, off Attu, Aleutian islands.
- Distribution: Kuril islands and northwards; Kamchatka peninsula, Bering Sea, Aleutian islands, Alaska.
- Habitat: 30-213 m.
- Original genus: *Boreotrophon*.

G2255 *N. shingo* (CHIBA, 1981)

Shingo-nunome-tsuno-ori-ire

- Type locality: Kumano-nada off southeastern Kii peninsula, central Honshū; 400-500 m.
- Distribution: Kii peninsula (off Kushimoto, 150 m. KOYAMA, 1997), type locality.
- Original genus: *Trophonopsis*.

G2256 *N. bondarevi* HOUART, 1995-b

Bondarebu-tsuno-ori-ire

- Type locality: Kuril islands, 110-135 m.
- Distribution: Kuril islands (including Paramushir and

Onekotan).

G2257 *N. gaidenkoi* HOUART, 1995-b

Gaidenko-tsuno-ori-ire

- Type locality: Okhotsk Sea, off Kamchatka peninsula.
- Distribution: Kuril islands; Okhotsk Sea

G2258 *N. egorovi* HOUART, 1995-b

Egorobu-tsuno-ori-ire

- Type locality: Kuril islands, 200 m.
- Distribution: southern Kuril islands.

□ Genus *Nodulotrophon* HABE & ITŌ, 1965-b

Type species: *Trophon dalli* KOBELT, 1878 (mt.; = *Trophon coronatus* H. & A. ADAMS, 1864)

G2259 *No. coronatus* (H. & A. ADAMS, 1864)

(= *Trophon muriciformis* DALL, 1877 non KING, 1831; *T. dalli* KOBELT, 1878; *T. dalli sensu* DALL, 1889; *N. dalli sensu* HABE & ITŌ, 1965; RADWIN & D'ATTILIO, 1976; EGOROV, 1993; *Boretrophon dalli sensu* ABBOTT, 1974)

Daru-tsuno-ori-ire

- Type locality: 'New Zealand' (Cumming collection; probably erroneous).
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, P9-P10, Hokkaidō; Kuril islands, Bering Sea, Okhotsk Sea.
- Habitat: 50-300 m.
- Original genus: *Trophon*.

Subfamily **TYPHINAE** COSSMANN, 1903

(Refs.: Keen, 1944)

□ Genus *Typhis* MONTFORT, 1810 in 1808-10

Type species: *Purpura tubifer* BRUGUIÈRE, 1792 in 1789-1816 (o. d.)

(= *Typhina* JOUSSEAUME, 1880)

Subgenus *Typhis s. str.*

G2260 *T. (T.) nitens* HINDS, 1843-a

Yotsukado-entotsu-yōraku

- Type locality: 'Straits of Macassar, Indian Archipelago. Dredged from among gravel and coral in eighteen fathoms' (Indonesia).
- Distribution: Suruga bay and southwards, P6-P5, Japan Sea (northern Yamaguchi prefecture FUKUDA *et. al.*, 1990, J1), EC5, ECP4-ECP2, P2.
- Habitat: 20-200 m., sand.

G2261 *T. (T.) duplicatus* SOWERBY II, 1870

Kasane-entotsu-yōraku

- Type locality: 'China Seas'.
- Distribution: unknown.

**Notes:** T. C. Yen (1940: Proc. Mal. Soc. Lon., vol. 24, p. 223) erroneously cited a syntype in the BMNH as the holotype. At least one other syntype is known to exist.

G2262 *T. (T.) montfortii* A. ADAMS, 1853-h

(= *T. (Typhina) teramachii* KEEN & CAMPBELL, 1964)  
Paipu-yōraku (= Teramachi-paipu-yōraku)

- Type locality: 'Gotto' (Gotō islands, off western Kyūshū), 48 fms; 'Okino-Sima, on the sands' (Okinoshima, Shimane prefecture, Japan Sea).
- Distribution: west off Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986), Kii peninsula (KOYAMA, 1997) and southwards, P5, EC5, ECP4-ECP2, P2, Japan Sea (Okinoshima).
- Habitat: 50-200 m., sand.

Subgenus *Monstrotyphis* HABE, 1961-a

Type species: *Typhis tosaensis* AZUMA, 1960 (o. d.)

G2263 *T. (M.) tosaensis* (AZUMA, 1960)

(= *T. (Typhina) imperialis* KEEN & CAMPBELL, 1964)  
Tosa-paipu-yōraku (= Mikado-paipu-yōraku)

- Type locality: 'Tosa bay, Shikoku island'.
- Distribution: Kii peninsula (off Tanabe; off Cape Shio KOYAMA, 1997), Tosa bay.
- Habitat: 200 m., sand.
- Original genus: *Typhis* (*Typhinellus*).

□ Genus *Siphonochelus* JOUSSEAUME, 1880

Type species: *Typhis arcuatus* HINDS, 1843

(= *Cyphonochelus* JOUSSEAUME, 1882; *Choreotyphis* IREDALE, 1936)

G2264 *S. japonicus* (A. ADAMS, 1863-b)

(= *Typhis arcuata* HINDS *sensu* YOKOYAMA, 1922; KURODA & HABE, 1952-a; *S. nipponensis* KEEN & CAMPBELL, 1964)

Entotsu-yōraku (= Yamato-entotsu-yōraku)

- Type locality: 'Uraga' (Uraga, eastern Miura peninsula, mouth of Tōkyō bay), 21 fms.
- Distribution: Ōtsuchi bay (Iwate prefecture) and southwards, Sagami bay, southern Shikoku, Japan Sea (Sado island and southwards, off Niigata prefecture, Wakasa bay, J3-J1), EC5.
- Habitat: 20-200 m., sand.
- Original genus: *Typhis*.

Subfamily **OCENEBRINAE** COSSMANN, 1903

□ Genus *Ocenebra* GRAY, 1847

Type species: *Murex erinacea* LINNAEUS, 1758

(= *Tritonalia* FLEMING in GRAY, 1847 non FLEMING, 1828; *Inermicosta* JOUSSEAUME, 1880; *Heteropurpura* JOUSSEAUME, 1880; *Ocenebra sensu* HÖRNES & AUINGER, 1885 *err. pro Oce-*)

G2265 *O. fimbriatula* (A. ADAMS, 1863-b)

Chijiwa-yōraku

- Type locality: 'Gotto' (Gotō islands, western Kyūshū), 48 fms., and 'Kuro-Sima' (Kuroshima, Nagasaki prefecture, western Kyūshū), 55 fms.

- Distribution: Sagami bay and westwards, P6-P5, off Kii peninsula, Japan Sea (off Fukui prefecture EKAWA, 1985-a, Toyama bay, J3-J1), northwestern Kyūshū.
- Habitat: 50-120 m., rocks.
- Original genus: *Trophon*.

G2266 *O. brachyteron* (A. ADAMS, 1863-b)

- Type locality: 'Uraga' (Uraga, eastern Miura peninsula, mouth of Tōkyō bay), 12 fms.
- Distribution: recorded only from type locality.
- Original genus: *Pteronotus*.

G2267 *O.? puteola* (A. ADAMS, 1863-b)

- Type locality: 'Tsusaki' (probably cape Sunosaki, Tateyama bay, Bōsō peninsula, central Honshū).
- Distribution: recorded only from type locality.
- Original genus: *Muricidea*.

G2268 *O. incompta* (GOULD, 1860 in 1859-61)

- Type locality: 'inhabits Hakodadi' (Hakodate, Hokkaidō).
- Distribution: unknown.
- Original genus: *Trophon*.

□ Genus *Cerastoma* HERRMANNSEN, 1846

Type species: *Purpura nuttalli* CONRAD, 1837 (mt.; ICZN op. 704)

(= *Cerostoma* CONRAD, 1837 non LATREILLE, 1802; *Cerastoma* HERRMANNSEN, 1846 non KOCH, 1839; *Spinostoma* COEN, 1943; *Microrhytis* EMERSON, 1959)

G2269 *C. burnetti* (ADAMS & REEVE, 1850 in 1848-50)

(= *Murex coreanicus* A. ADAMS, 1854)

Hire-gai (= Chōsen-hire-gai)

- Type locality: 'Korean Archipelago'.
- Distribution: Bōsō peninsula and northwards, Iwate prefecture (Ōtsuchi bay TSUCHIDA, 1991), P8-P10, Japan Sea (Tsushima strait, J1-J5), Hokkaidō; Korea, Kuril islands, Primoriye region (Japan Sea coast of Russia).
- Habitat: intertidal to 100 m., rocks.
- Original genus: *Murex*.

G2270 *C. furnieri* (CROSSE, 1861)

(= *Murex emarginatus* SOWERBY II, 1841 non DONOVAN, 1804)

Iso-bashō (= Kuchi-tsuno-gai)

- Type locality: Japan.
- Distribution: Fukushima prefecture and southwards, Kii peninsula (KOYAMA, 1997), P8-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4; Korea.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Murex*.

G2271 *C. rorifluum* (ADAMS & REEVE, 1850 in 1848-50)

(= *Murex monachus* CROSSE, 1862)

- Type locality: Japan.

- Distribution: southwestern Hokkaidō and southwards, J5-J1, EC5; Korea, China.

- Habitat: intertidal to 20 m., rocks.

- Original genus: *Murex*.

G2272 *C. inornatum* (RÉCLUZ, 1851)

(= *Murex crassus* A. ADAMS, 1853; *M. japonica* DUNKER, 1860; *M. talienwhanensis* CROSSE, 1862; *M. endermonis* E. A. SMITH, 1875; *Ocenebra lumaria* YOKOYAMA, 1920)

Ō-yōraku (= Nippon-yōraku; Kagi-yōraku)

- Type locality: Korea.

- Distribution: Hokkaidō and southwards, Iwate prefecture (Ōtsuchi bay TSUCHIDA, 1991), P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea, China.

- Habitat: intertidal to 20 m., rocks.

- Original genus: *Murex*.

□ Genus *Pteropurpura* JOUSSEAUME, 1880

Type species: *Murex macropterus* DESHAYES, 1839 (o. d.)

Subgenus *Pteropurpura s. str.*

G2273 *P. (P.) plorator* (ADAMS & REEVE, 1850 in 1848-50)

Taka-no-ha-yōraku

- Type locality: 'Korean Archipelago'.

- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (off Mishima, J2-J1), EC5; southern Korea.

- Habitat: 50-200 m., coarse sand and stones.

- Original genus: *Murex*.

G2274 *P. (P.) monoptera* (PILSBRY, 1904-b)

Katahane-yōraku

- Type locality: Hirado island, Nagasaki prefecture, western Kyūshū.

- Distribution: Bōsō peninsula and southwards, P7-P5, EC5.

- Habitat: 20-50 m., coarse sand and stones.

- Original genus: *Ocenebra*.

G2275 *P. (P.) stimpsoni* (A. ADAMS, 1863-b)

(= *Ocenebra (Ocenebrellus) modesta* FULTON, 1936; *P. stimpsoni modesta sensu* HABE, 1964)

Shikishima-yōraku

- Type locality: 'Uraga' (Uraga, eastern Miura peninsula, mouth of Tōkyō bay).

- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Sado island, J3-J1), EC5.

- Habitat: 30-200 m., coarse sand and stones.

- Original genus: *Pteronotus*.

G2276 *P. (P.) esycha* (DALL, 1925-a)

Chirimen-taka-no-ha-yōraku

- Type locality: 'Kagoshima Gulf' (southern Kyūshū).

- Distribution: Kii peninsula (KOYAMA, 1997) and

southwards, western Kyūshū, P5, EC5, ECP4.

- Habitat: 150-200 m., coarse sand and stones.
- Original genus: *Murex*.

G2277 *P. (P.) vespertilio* (KIRA, 1959-a)

Kōmori-yōraku

- Type locality: central Honshū; 40-50 fms.
- Distribution: off Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986), Izu peninsula and westwards, P6-P5, off western Kyūshū.
- Habitat: 50-200 m., coarse sand and stones.
- Original genus: *Ceratostoma* (*Pteropurpura*).

G2278 *P. (P.) gouldi* (A. ADAMS, 1863-b)

- Type locality: Tsushima (western Japan Sea).
- Distribution: 'Pacific coast 34° N'. (KURODA & HABE, 1952-a).
- Original genus: *Pteronotus*.

Subgenus *Ocinebrellus* JOUSSEAUME, 1880

Type species: *Murex eurypteron* REEVE, 1845

(= *Ocinebrellus sensu* COSSMANN, 1903 *err. pro* *Ocin-*; *Ternaria* COEN, 1943)

G2279 *P. (O.) falcata eurypteron* (REEVE, 1845 in 1843-65)

Yōraku-hire-gai

- Type locality: 'Japan?'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5.
- Habitat: 50-150 m., rubble.
- Original genus: *Murex*.

G2280 *P. (O.) falcata falcata* (SOWERBY II, 1841-b)

Yōraku-gai

- Type locality: '*ad insulam Japan*'.
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Noto peninsula, J2-J1), EC5; Korea, China.
- Habitat: 20-200 m., rubble.
- Original genus: *Murex*.

G2281 *P. (O.) adunca adunca* (SOWERBY I, 1834 in 1832-41)

(= *Murex falcatus sensu* REEVE, 1845 in 1843-65 (*pars*) non SOWERBY II, 1841; *M. (Pteronotus) speciosus sensu* A. ADAMS, 1855; *Phyllonotus acanthophorus* A. ADAMS, 1863)

Ise-yōraku

- Type locality: Japan.
- Distribution: southern Hokkaidō, Iwate prefecture (Ōtsuchi bay TSUCHIDA, 1991), P10-P5, Japan Sea (J6-J1), EC5; Korea, southern Sakhalin.
- Habitat: intertidal to 50 m., rubble.
- Original genus: *Murex*.

G2282 *P. (O.) adunca expansa* (SOWERBY II, 1859)

Hiraki-ise-yōraku

- Type locality: 'China'.
- Distribution: southern Hokkaidō and southwards, P10-P5.
- Habitat: intertidal to 100 m., rubble.
- Original genus: *Murex*.

□ Genus *Genkaimurex* KURODA, 1953-a

Type species: *Coralliophila (Genkaimurex) varicosa* KURODA, 1953 (o. d.)

G2283 *G. varicosa* (KURODA, 1953-a)

Une-sango-yadori

- Type locality: Genkai-nada, off Fukuoka prefecture, northern Kyūshū; 25 fms.
- Distribution: northern Kyūshū, western Japan Sea (off Yamaguchi prefecture IKEDA & TADA, 1963).
- Habitat: 50-100 m., sand.
- Original genus: *Coralliophila (Genkaimurex)*.

□ Genus *Urosalpinx* STIMPSON, 1865-a

Type species: *Fusus cinereus* SAY, 1822 (o. d.)

G2284 *U. cinerea* (SAY, 1822)

(= *U. cinerea var. follyensis* BAKER, 1951)

Kakinakase

- Type locality: east coast of USA.
- Distribution: northeastern Honshū (Matsushima bay; Miyagi prefecture), Seto inland sea; 'Nova Scotia to northeast Florida; Washington to central California' (ABBOTT, 1974).
- Habitat: intertidal on *Ostraea*.
- Original genus: *Fusus*.

Notes: introduced to Japan from the USA.

Subfamily ERGALATAXINAE KURODA *et al.*, 1971

□ Genus *Lataxiena* JOUSSEAUME, 1883

Type species: *Lataxiena lataxiena* JOUSSEAUME, 1883 (o. d.; = *Trophon fimbriata* HINDS, 1844) (= *Bedevina* HABE, 1946-b) (Refs.: Houart, 1995-a)

G2285 *L. fimbriata* (HINDS, 1844 in 1844-45)

(= *Murex luculentus* REEVE, 1845; *Fusus imbricatus* E. A. SMITH, 1876; *Lataxiena elegans* JOUSSEAUME, 1883; *L. lataxiena* JOUSSEAUME, 1883) Oni-kagome-gai (= Hire-ori-ire; Hire-yōraku; Biku-yōraku)

- Type locality: 'Straits of Macassar' (Indonesia). 'In eleven fathoms, among sand and gravel'
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (south off Sado island, J3-J1), EC5, ECP4-ECP2, P2; Philippines, Australia.
- Habitat: intertidal to 100 m., rubble.
- Original genus: *Trophon*.

Notes: this is not *Clavatula fimbriata* HINDS, 1843 (now in *Daphnellopsis*, next genus) which is not distributed in

Japan.

□ Genus *Daphnellopsis* SCHEPMAN, 1913 in 1908-13

Type species: *Daphnellopsis lamellosa* SCHEPMAN, 1913 (o. d.)

G2286 *D. lamellosa* SCHEPMAN, 1913 in 1908-13

Atsu-kuchibiru-kōshitsu

• Type locality: 'Siboga' sta. 306: 08° 27' S., 122° 54' E., 'Savu-sea, 247 m. Sandy mud' (eastern end of Flores island, Indonesia).

• Distribution: East China Sea off Japan (HABE, 1981-b); southern Taiwan, Indonesia.

**Notes:** previously in Conoidea: Raphitominae. See HOUART (1995-a: 258).

□ Genus *Cytharomorula* KURODA, 1953-b

Type species: *Cytharomorula vexillum* KURODA, 1953 (o. d.)

G2287 *C. vexillum* KURODA, 1953-b

Kasuri-bora

• Type locality: off Wakayama prefecture, central Honshū.

• Distribution: off Chōshi (Chiba prefecture, central Honshū) and westwards, Izu islands, Sagami bay, Kii peninsula (KOYAMA, 1998), southwestern Shikoku (Okino-se bank, off Okinoshima TSUCHIDA, 1989), P7-P5, western Kyūshū; New Caledonia, Chesterfield Plateau (HOUART, 1994).

• Habitat: 100-250 m., sand.

□ Genus *Bedevea* IREDALE, 1924

Type species: *Trophon hanleyi* ANGAS, 1867

G2288 *B. birileffi* (LISCHKE, 1871 in 1868-73)

(= *Fusus pachyraphe sensu* E. A. SMITH, 1879)

Kagome-gai

• Type locality: 'Bucht von Nagasaki' (Nagasaki bay, western Kyūshū).

• Distribution: Fukushima prefecture and southwards, Kii peninsula (KOYAMA, 1998), P8-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea, Taiwan.

• Habitat: intertidal to 50 m., rubble.

• Original genus: *Trophon*.

G2289 *B. blosvillei* (DESHAYES, 1832 in 1830-32)

Shiro-suji-oni-kagome-gai

• Type locality: Australia.

• Distribution: P2; Taiwan, Philippines, Australia (Queensland).

• Habitat: intertidal to 20 m., rocks.

• Original genus: *Fusus*.

□ Genus *Ergalatax* IREDALE, 1931

Type species: *Ergalatax recurrens* IREDALE, 1931 (o. d.; = *Buccinum contractum* REEVE, 1846)

G2290 *E. contracta contracta* (REEVE, 1846 in 1843-65)

(= *Buccinum funiculatum* REEVE, 1846 in 1843-65; *Purpura* (*Ricinula*) *siderea* MARTENS, 1874 non REEVE; *Ocenebrina pilsbryana* BAKER, 1891; *Urosalpinx innotabilis* E. A. SMITH, 1879; *Pentadactylus ceylonicum* PRESTON, 1909; *Urosalpinx smithi* SCHEPMAN, 1911 in 1908-13; *U. bandana* SCHEPMAN, 1911 in 1908-13; *Morula martensi* DALL, 1923; *Ergalatax recurrens* IREDALE, 1931)

Hime-yōraku (= Beni-ase-reishi-damashi)

• Type locality: Samar island, Philippines.

• Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2; southern Korea, tropical Indo-western Pacific to East Africa and French Polynesia (HOUART, 1994).

• Habitat: intertidal to 20 m., coarse sand and stones or rocks.

• Original genus: *Buccinum*.

G2291 *E. contracta calcarius* (DUNKER, 1860)

Futo-hime-yōraku

• Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).

• Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4.

• Habitat: intertidal to 20 m., coarse sand and stones or rocks.

• Original genus: *Murex*.

G2292 *E. tokugawai* KURODA & HABE in KURODA *et al.*, 1971

Tokugawa-hime-yōraku

• Type locality: Amadaiba-kannontsukadashi, Sagami bay, central Honshū; 66-75 m.

• Distribution: off Chōshi (Chiba prefecture, central Honshū), Sagami bay, Enshū-nada, Kii peninsula (KOYAMA, 1998) Japan Sea (Wakasa bay).

• Habitat: 50-200 m., coarse sand and stones.

G2293 *E. purpureus* KURODA & HABE in HABE, 1961-a

Tsukushi-kagome-gai

• Type locality: Tomioka bay, Amakusa, southwestern Kyūshū; 20 m., coarse sand and stones.

• Distribution: western Kyūshū.

• Habitat: 10-50 m., coarse sand and stones.

□ Genus *Spinidrupa* HABE & KOSUGE, 1966-b

Type species: *Murex euracantha* A. ADAMS, 1853 (o. d.)

G2294 *M. (S.) euracantha* (A. ADAMS, 1853 in H. & A. ADAMS, 1853-58)

Hoso-toge-reishi-damashi

• Type locality: none designated (Cuming collection).

• Distribution: Izu islands and southwards, Kii peninsula (KOYAMA, 1998), P6-P5, EC5, ECP4-ECP2, P2;



Philippines, Australia, tropical Indo-Pacific.

- Habitat: intertidal to 20 m., rocks.
- Original genus: *Muricidea*.

□ Genus *Phyllocoma* TAPPARONE-CANEFRI, 1881

Type species: *Triton convolutus* BRODERIP, 1833  
(= *Craspedotriton* DALL, 1904)

G2295 *P. convoluta* (BRODERIP, 1833)

Itokake-bora

- Type locality: none designated.
- Distribution: Kii peninsula (Minabe; Cape Shio KOYAMA, 1998) and southwards, P5, ECP4-ECP2, P2; Philippines, Indo-western Pacific, Australia.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Triton*.

□ Genus *Cronia* H. & A. ADAMS, 1853 in 1853-58

Type species: *Purpura amygdala* KIENER, 1836

G2296 *C. margariticola* (BRODERIP in BRODERIP & SOWERBY, 1833)

(= *Murex undatus* DILLWYN, 1817 non GMELIN, 1791; *Purpura lineolata* BLAINVILLE, 1832 *nom. nud.*; *M. squamulosa* DESHAYES, 1844; *Cronia indica* G. & H. NEVILL, 1875; *Morula kieneri* DAUTZENBERG & FISCHER, 1906)

Une-reishi-damashi

- Type locality: 'Lord Hood's island' (probably Marutea, 21° 30' S., 135° 33' W.), Pacific Ocean.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific, New Caledonia (HOUART, 1994), Australia.
- Habitat: intertidal, rocks.
- Original genus: *Murex*.

G2297 *C. crassulnata* (HEDLEY, 1915 in 1906-23)

(= *Ricinula fiscellum* REEVE, 1846 in 1843-65 non GMELIN, 1791; *Sistrum undatum* var. *sensu* SMITH, 1884; *Murex rhyssa* DALL, 1923)

Hiro-une-reishi-damashi

- Type locality: Sweers island, Gulf of Carpentaria, Australia.
- Distribution: southern Shikoku and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific, Australia.
- Habitat: intertidal, rocks.
- Original genus: *Thais*.

G2298 *C. turbinoides* (BLAINVILLE, 1832)

(= *Morula brunneolabrum* DALL, 1923)

Hiro-reishi-damashi

- Type locality: 'rivages de Vanikoro' (reefs of Vanikoro, Solomon islands).
- Distribution: Amami islands and southwards, ECP3-

ECP2, P2; southeast Asia.

- Habitat: intertidal, rocks.
- Original genus: *Purpura*.

G2299 *C. buccinea* (DESHAYES, 1844 in LAMARCK, 1835-45)

(= *Buccinum strigosum* GMELIN, 1791 *nom. nud.*; *Purpura flammea* MÖRCH, 1852)

Koko-reishi

- Type locality: New Guinea.
- Distribution: Kii peninsula (KOYAMA, 1998), Okinawa islands and southwards, P2; Philippines, western Pacific.
- Habitat: intertidal, rocks.
- Original genus: *Purpura*.

□ Genus *Muricodrupa* IREDALE, 1918

Type species: *Purpura fenestrata* BLAINVILLE, 1832

G2300 *M. fenestrata* (BLAINVILLE, 1832)

(= *Murex cariosus* WOOD, 1828 in 1818-28 non LINNAEUS, 1767; *Purpura cancellata* QUOY & GAIMARD, 1833 non RÖDING, 1798; *Columbella clathra* LESSON, 1842)

Komado-bora

- Type locality: none originally given; designated 'Tonga' (HOUART, 1994).
- Distribution: Izu islands and southwards, P6-P5, ECP4-ECP2, P2; Philippines, Australia, New Caledonia, tropical Indo-Pacific, Hawaii.
- Habitat: subtidal, rocks.
- Original genus: *Purpura*.

G2301 *M. fiscella* (GMELIN, 1791)

(= *Murex funiculus* WOOD, 1828 in 1818-28; *Murex decussatus* REEVE, 1845 non GMELIN, 1791; *Coralliophila confragosa* H. & A. ADAMS, 1865)

Yōraku-reishi-damashi

- Type locality: 'ad insulam Pulo Condore, prope Sinam' (probably Condor (Con Son) island, off southern Vietnam).
- Distribution: Ogasawara islands (FUKUDA, 1994), Kii peninsula (Kushimoto; Cape Shio KOYAMA, 1998), Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; Philippines, Australia, tropical Indo-Pacific, South Africa, Hawaii.
- Habitat: intertidal to 20 m., coral reefs.
- Original genus: *Murex*.

G2302 *M. stellaris* (HOMBRON & JAQUINOT, 1854)

(= *Morula triangulata* PEASE, 1868)

Yōraku-toge-reishi-damashi

- Distribution: Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., coral reefs.
- Original genus: *Morula*.

G2303 *M. pothuanii* (SOULEYET in EYDOUX & SOULEYET, 1852)

(= *pothuoui*, *pothuauai*, *pothuaai* auct.)

Kōshi-reishi-damashi (= Tsuya-nashi-yōraku)

- Type locality: 'îles Philippines'.
- Distribution: Ogasawara islands (FUKUDA, 1994), Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, western Pacific.
- Habitat: intertidal to 10 m., rocks
- Original genus: *Purpura*.

G2304 *M. fusca* (KÜSTER, 1868 in 1859-68)

(= *Purpura marginatra* BLAINVILLE, 1832 *nom. nud.*; *P. cancellata* KIENER, 1835 *non* QUOY & GAIMARD, 1833; *Ricinula marginatra* BLAINVILLE *sensu* IWAKAWA, 1900; *Morula marginatra sensu* KURODA, 1928)

Reishi-damashi-modoki

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2; Indo-Pacific.
- Habitat: subtidal, rocks.
- Original genus: *Ricinula*.

**Note:** Koge-reishi-damashi is a closely allied species or form variously cited as '*Drupa* (*Morula*) *marginatra* (*sic*)' (BLAINVILLE)' (KURODA, 1941-c) and *Cronia* (*Muricodrupa*) *aspera* (LAMARCK) (FUJIKURA in SAKURAI, 1986; KOYAMA, 1998). Its status is uncertain.

□ Genus *Usilla* H. ADAMS, 1860

Type species: *Vexilla fusconigra* PEASE, 1860

G2305 *U. fusconigra* (PEASE, 1860-c)

(= *Planaxis cingulata* GOULD, 1861 *non* A. ADAMS, 1851; *P. gouldi* E. A. SMITH, 1872)

Shii-no-mi-reishi

- Type locality: Hawaii.
- Distribution: southern Shikoku and southwards, P5, EC5, ECP4-ECP2, P11, northern Ogasawara islands; Hawaii, central-western Pacific.
- Habitat: intertidal, rocks.
- Original genus: *Vexilla*.

□ Genus *Pascula* DALL, 1908-c

Type species: *Trophon* (*Pascula*) *citricus* DALL, 1908 (mt.)

(= *Evokesia* RADWIN & D'ATTILIO, 1972)

G2306 *P. benedicta* (MELVILL & STANDEN, 1895)

(= *Ricinula paucimaculatum* SOWERBY, 1903; *Murex dollfusi* LAMY, 1938)

Sachi-hina-reishi-damashi

- Type locality: Lifu, Loyalty islands, New Caledonia.
- Distribution: Izu islands and southwards, Kii peninsula (KOYAMA, 1998), P6-P5, EC5, ECP4-ECP2; tropical

western Pacific to Tuamotos, Red Sea, New Caledonia, French Polynesia (HOUART, 1994).

- Habitat: intertidal to 20 m., rocks.
- Original genus: *Murex*.

G2307 *P. ochrostoma* (BLAINVILLE, 1832)

(= *Ricinula cavernosa* REEVE, 1846 in 1843-65)

Kinafu-reishi-damashi

- Type locality: Tonga.
- Distribution: Izu islands and southwards, Kii peninsula (KOYAMA, 1998), P6-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, tropical Pacific.
- Habitat: intertidal to 10 m., coral reefs.
- Original genus: *Purpura*.

□ Genus *Phrygiomurex* DALL, 1904-a

Type species: *Triton sculptilis* REEVE, 1844 (o. d.)

G2308 *Ph. sculptilis* (REEVE, 1844 in 1843-65)

Furijijia-gai

- Type locality: Capul island, Philippines; under stones at low water.
- Distribution: Ogasawara islands (FUKUDA, 1994), Kii peninsula (Cape Shio KOYAMA, 1998), Tosa bay and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Australia, tropical western Pacific.
- Habitat: intertidal, rocks.
- Original genus: *Triton*.

□ Genus *Maculotriton* DALL, 1904-a

Type species: *Triton bracteatus* HINDS, 1844 (o. d.); = *Buccinum serriale* DESHAYES, 1834)

G2309 *M. serriale serriale* (DESHAYES in LABORDE, 1834)

(= *Triton bracteatus* HINDS, 1844; *T. angulatus*, *bacillum*, *lativaricosus*, all REEVE, 1844; *Colombella epidelia* DUCLOS in CHENU, 1848; *Tritonidea petterdi* BRAZIER, 1872; *Clathurella waterhouseae* BRAZIER, 1896; *M. bracteatus longus* PILSBRY & VANATTA, 1904)

Gomafu-nuka-bora

- Type locality: 'Mer Rouge' (Red Sea).
- Distribution: Izu islands and southwards, Kii peninsula (KOYAMA, 1998), P6-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2; Philippines, Australia, Indo-Pacific.
- Habitat: intertidal, rocks and coral reefs.
- Original genus: *Buccinum*.

G2310 *M. serriale digitale* (REEVE, 1844 in 1843-65)

(= *Drupa digitatis sensu* KURODA, 1941 *err. pro -alis*)

Kome-bora

- Type locality: Capul island, Philippines; under stones at low water.
- Distribution: Kii peninsula (Kushimoto KOYAMA, 1998)

and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, western Pacific.

- Habitat: intertidal, rocks.
- Original genus: *Triton*.

□ Genus *Orania* PALLARY, 1900

Type species: *Murex spadae* LIBASSI, 1859  
(= *Nemofusus* COSSMANN, 1903)

G2311 *O. pacifica* (NAKAYAMA, 1988)

Arare-reishi-damashi

- Type locality: southwest off Cape Kirime, Kii peninsula, 30-160 m.
- Distribution: Izu islands and southwards, P6-P5, ECP4-ECP2, P11, northern Ogasawara islands, P2; Philippines, South Africa, New Caledonia (HOUART, 1994), Hawaii, Polynesia.
- Habitat: 30-200 m., rocks.
- Original genus: *Morula*.

Subfamily THAIDINAE JOUSSEAUME, 1888

(Refs.: Emerson & Cernohorsky, 1973)

□ Genus *Drupella* THIELE, 1925

Type species: *Purpura ochrostoma* BLAINVILLE, 1832

G2312 *D. rugosa* (BORN, 1778)

(= *Murex concatenata* LAMARCK, 1822 in 1815-22;  
*Purpura fragum* BLAINVILLE, 1832)

Kuchibeni-reishi-damashi (= Hime-shiro-reishi-damashi)

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., coral reefs.
- Original genus: *Murex*.

G2313 *D. minuta* FUJIOKA, 1984-a

Koshiro-reishi-damashi

- Type locality: Sesoko island, Okinawa: 26° 39' N., 127° 52' E.
- Distribution: Tanegashima & Yakushima and southwards, ECP4-ECP2; tropical western Pacific to Fiji.
- Habitat: intertidal to 20 m., coral reefs.

G2314 *D. cornus* (RÖDING, 1798)

(= *Purpura elata* BLAINVILLE, 1832; *Ricinula spectrum* REEVE, 1846; *R. ochrostoma sensu* YOKOYAMA, 1900;  
*D. manilla sensu* HABE, 1964)

Shiro-reishi-damashi

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., coral reefs.
- Original genus: *Drupa*.

G2315 *D. eburnea* (KÜSTER, 1868 in 1859-68)

Nise-shiro-reishi-damashi

- Type locality: 'der Indische Ocean' (Indian Ocean).
- Distribution: Bōsō peninsula and southwards, P5, EC5, ECP4-ECP2, P2; tropical Pacific.
- Habitat: intertidal to 20 m., coral reefs.
- Original genus: *Ricinula*.

□ Genus *Tenguella* ARAKAWA, 1965

Type species: '*M. granulata* (DUCLOS, 1924)' (o. d.; = *Purpura granulata* DUCLOS, 1832)

G2316 *T. granulata* (DUCLOS, 1832)

(= *Purpura tuberculata* BLAINVILLE, 1832; *P. cingulifera* KIENER, 1835; *Pentadactylus chrysalis* SOWERBY, 1908; *Drupina ceylonica* DALL, 1923)

Reishi-damashi

- Type locality: 'Nouvelle-Hollande'
- Distribution: Izu islands and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, Red Sea, tropical Indo-Pacific.
- Habitat: intertidal to low water, rocks.
- Original genus: *Purpura*.

□ Genus *Azumamorula* EMERSON, 1968

Type species: *Ricinula mutica* LAMARCK, 1816 (o. d.)  
(= *Morulina* DALL, 1923 non BORNER, 1906)

G2317 *A. mutica* (LAMARCK, 1816-a)

Futokoro-reishi-damashi

- Type locality: Mozambique.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, tropical western Pacific.
- Habitat: subtidal, rocks.
- Original genus: *Ricinula*.

□ Genus *Morula* SCHUMACHER, 1817

Type species: *Morula papillosa* SCHUMACHER, 1817 (= *Drupa uva* RÖDING, 1798)

(= *Oppomorus* IREDALE, 1937-a)

Subgenus *Morula s. str.*

G2318 *M. (M.) uva* (RÖDING, 1798)

(= *Ricinula aspera* LAMARCK, 1816; *R. nodus* LAMARCK, 1816; *M. papillosa* SCHUMACHER, 1817; *R. morus* LAMARCK, 1822 in 1815-22 non RÖDING, 1798; *Purpura sphaeridea* DUCLOS, 1832; *R. alba* MÖRCH, 1852; *Morula nodus sensu* KURODA, 1928)

Kuro-ibo-reishi-damashi

- Type locality: none designated.
- Distribution: Izu islands and southwards, Kii peninsula (KOYAMA, 1998), P6-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
- Habitat: intertidal to 10 m., rocks.
- Original genus: *Drupa*.

G2319 *M. (M.) musiva* (KIENER, 1836 in 1834-80)

Shima-reishi-damashi

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
- Habitat: intertidal to low water, rocks.
- Original genus: *Purpura*.

G2320 *M. (M.) anaxeres* (KIENER, 1835 in 1834-80)

Une-shiro-reishi-damashi

- Type locality: none designated.
- Distribution: Izu islands and southwards, Kii peninsula (KOYAMA, 1998), P6-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
- Habitat: subtidal, rocks.
- Original genus: *Purpura*.

G2321 *M. (M.) nodicostata* (PEASE, 1868-b)

(= *Engina purpureocincta* PRESTON, 1909)

Shiro-ibo-reishi-damashi

- Type locality: 'Paumotus' (Tuamotu archipelago).
- Distribution: Izu islands and southwards, Kii peninsula (KOYAMA, 1998), P6-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
- Habitat: intertidal to 10 m., rocks.
- Original genus: *Engina*.

G2322 *M. (M.) striata* (PEASE, 1868-b)

Kuchi-murasaki-reishi-damashi (= Nippon-reishi-damashi)

- Type locality: 'Paumotus' (Tuamotu archipelago).
- Distribution: Izu islands and southwards, Kii peninsula (KOYAMA, 1998), P6-P5, EC5, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific.
- Habitat: intertidal to 10 m., rocks.
- Original genus: *Engina*.

G2323 *M. (M.) marginalba* BLAINVILLE, 1832

Kuchikire-reishi-damashi

- Type locality: 'Des mers australes' (southern seas).
- Distribution: P2; Taiwan, Australia.
- Habitat: subtidal, rocks.
- Original genus: *Purpura*.

G2324 *M. (M.) iostoma* (REEVE, 1844 in 1843-65)

Itomaki-reishi-damashi

- Type locality: none designated.
- Distribution: Izu islands and southwards, Kii peninsula (KOYAMA, 1998), P6-P5, ECP4-ECP2, P2; Philippines.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Ricinula*.

G2325 *M. (M.) funiculata* (REEVE, 1846 in 1843-65)

Kurofu-reishi-damashi

- Type locality: none designated.
- Distribution: Izu islands and southwards, Kii peninsula (KOYAMA, 1998), P5, ECP4-ECP2; Philippines.

- Habitat: intertidal to 20 m., rocks.

- Original genus: *Ricinula*.

G2326 *M. (M.) tosana* (PILSBRY, 1904-b)

Tosa-reishi

- Type locality: Kashiwajima, Kōchi prefecture, southern Shikoku.
- Distribution: western Kii peninsula, southern Shikoku, western Kyūshū.
- Habitat: intertidal, rocks.
- Original genus: *Purpura*.

G2327 *M. (M.) foliacea* (CONRAD, 1837-a)

(= *Morula (Spinidrupa) squamigera* DESHAYES *sensu* FUKUDA, 1995)

Kurifu-chijimi-reishi-damashi

- Type locality: California, USA.
- Distribution: Ogasawara islands, Okinawa islands; western USA.
- Habitat: intertidal.
- Original genus: *Purpura*.

Subgenus *Habromorula* HOUART, 1995-c

Type species: *Purpura biconica* BLAINVILLE, 1832 (o. d.)

(Refs.: Houart, 1995-c; 1996)

G2328 *M. (H.) biconica* (BLAINVILLE, 1832)

(= *Ricinula bicatenata* REEVE, 1846; *R. chrysostruma* REEVE, 1846 *non* DESHAYES, 1844; *M. variabilis* PEASE, 1868; *M. ambusta* DALL, 1923; *Engina slootsi* DEJONG & COOMANS, 1988)

Ko-murasaki-reishi-damashi

- Type locality: none designated.
- Distribution: Izu islands and southwards, Kii peninsula (KOYAMA, 1998), P6-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Purpura*.

G2329 *M. (H.) spinosa* (H. & A. ADAMS, 1853 in 1853-58)

(= *Muricidea iostomus* A. ADAMS, 1853 in H. & A. ADAMS, 1853-58; *M. borealis sensu* S. HIRASE, 1934)

Toge-reishi-damashi

- Type locality: none designated.
- Distribution: Izu islands and southwards, Kii peninsula (KOYAMA, 1998), P6-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Sistrum*.

G2330 *M. (H.) japonica* (SOWERBY III, 1903)

Yamato-reishi-damashi

- Type locality: Tanabe (district), Kii peninsula, central Honshū.

- Distribution: Izu islands and southwards, P6-P5, EC5, ECP4-ECP2; tropical Indo-Pacific.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Sistrum*.

G2331 *M. (H.) borealis* (PILSBRY, 1904-b)

Hachijō-reishi-damashi

- Type locality: Hachijō island, Izu islands.
- Distribution: Izu islands and southwards, Kii peninsula (KOYAMA, 1998), P6-P5, EC5, Tanegashima & Yakushima.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Sistrum* (*Ricinula*), as ssp. of *S. morum*.

G2332 *M. (H.) andrewsi* (E. A. SMITH, 1909)

- Type locality: Christmas Island, Indian Ocean.
- Distribution: Japan; New Caledonia, throughout tropical Indo-Pacific (HOUART, 1996).
- Original genus: *Sistrum*.

□ Genus *Nassa* RÖDING, 1798

Type species: *Nassa picta* RÖDING, 1798 (= *Buccinum sertum* BRUGUIÈRE, 1792 in 1789-1816)  
(= *Iopas* H. & A. ADAMS, 1853 in 1853-58)

G2333 *N.serta* (BRUGUIÈRE, 1792 in 1789-1816)

Mushiro-hanawa-reishi

- Type locality: none designated.
- Distribution: Kii peninsula (KOYAMA, 1998), Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, tropical western central Pacific.
- Habitat: intertidal, rocks.
- Original genus: *Buccinum*.

G2334 *N. francolina* (BRUGUIÈRE, 1789 in 1789-1816)

(= *Iopas sertum sensu* Y. HIRASE, 1907 (*pars*);  
KURODA, 1928 (*pars*); S. HIRASE, 1934)

Hanawa-reishi

- Type locality: none designated (Lamarck collection).
- Distribution: Izu islands and southwards, P6-P5, ECP4-ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
- Habitat: intertidal, rocks.
- Original genus: *Buccinum*.

□ Genus *Vexilla* SWAINSON, 1840

Type species: *Vexilla picta* SWAINSON, 1840 (= *Strombus vexillum* GMELIN, 1791)  
(= *Provexillum* HEDLEY, 1918)

G2335 *V. vexillum* (GMELIN, 1791)

(= *Purpura taeniata* POWYS in SOWERBY & POWYS, 1835; *V. picta* SWAINSON, 1840)

Hata-gai

- Type locality: 'in *Oceano indico*' (Indian Ocean).
- Distribution: Kii peninsula (KOYAMA, 1998) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines,

Australia, tropical Indo-Pacific.

- Habitat: intertidal, rocks.
- Original genus: *Strombus*.

□ Genus *Drupa* RÖDING, 1798

Type species: *Drupa morum* RÖDING, 1798

(= *Canrena* LINK, 1807; *Sistrum* MONTFORT, 1810;  
*Ricinula* LAMARCK, 1816; *Ricinella* SCHUMACHER, 1817; *Pentadactylus* MÖRCH, 1852 non SCHULZE, 1760;  
*Ricimula sensu* GOULD, 1855 *err. pro -ula*; *Ricinulus sensu* DESMAREST in CHENU, 1859 *err. pro -ula*)

Subgenus *Drupa s. str.*

G2336 *D. morum* RÖDING, 1798

(= *Canrena neritoidea* LINK, 1807; *Ricinula horrida* LAMARCK, 1816; *Ricinella violacea* SCHUMACHER, 1817; *Pentadactylus globosa* MARTYN *sensu* MÖRCH, 1852)

Murasaki-iga-reishi

- Type locality: none designated.
- Distribution: Izu islands and southwards, Kii peninsula (KOYAMA, 1998), P6-P5, ECP4-ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
- Habitat: intertidal to 10 m., rocks.

G2337 *D. ricinus ricinus* (LINNAEUS, 1758)

(= *Murex hystrix* LINNAEUS, 1758; *D. tribulus* RÖDING, 1798; *Sistrum album* MONTFORT, 1810; *Ricinula arachnoides* LAMARCK, 1816)

Kimadara-iga-reishi

- Type locality: 'in *O. Asiatico*' (Asian seas).
- Distribution: Kii peninsula (KOYAMA, 1998) and southwards, P5, ECP4-ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
- Habitat: intertidal, rocks.
- Original genus: *Murex*.

G2338 *D. ricinus hadari* EMERSON & CERNOHORSKY, 1973

(= *Purpura albolabris* BLAINVILLE, 1832 *nom. nud.*; *D. ricinus* TRYON, 1872 non LINNAEUS, 1758; *Ricinula ricinus* (LINNAEUS) *sensu* IWAKAWA, 1919; *D. ricinus albolabris sensu* KURODA, 1928)

Shiro-iga-reishi

- Type locality: Gulf of Aquaba, Israel.
- Distribution: Bōsō peninsula and southwards, Izu islands, P7-P5, EC5, ECP4; Red Sea.
- Habitat: intertidal to 10 m., rocks.

G2339 *D. siderea* (REEVE, 1846 in 1843-65)

- Type locality: 'Island of Burias and Masbate, Philippines (on the reefs and under stones at low water)'.
- Distribution: 'Pacific coast, 10°-35° N.' (KURODA & HABE, 1952-a); Philippines.
- Original genus: *Ricinula*.

G2340 *D. rubusidaeus* RÖDING, 1798

(= *Murex nodus* GMELIN, 1791 *nom. nud.*; *D. fragum* RÖDING, 1798; *Murex hystrix* LINK, 1807 *non* LINNAEUS, 1758; *Ricinella purpurata* SCHUMACHER, 1817; *R. miticula* LAMARCK, 1822 in 1815-22; *Purpura spathulifera* BLAINVILLE, 1832; *Ricinula reeveana* CROSSE, 1862; *R. hystrix sensu* IWAKAWA, 1919)  
Aka-iga-reishi

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, southern Kyūshū, ECP4-ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
- Habitat: intertidal to 10 m., rocks.

G2341 *D. clathrata* (LAMARCK, 1816-b)

(= *D. rubuscaesius* RÖDING, 1798 *nom. nud.*; *Murex hystrix* WOOD, 1828 in 1818-28 *non* LINNAEUS, 1758)  
Hiro-kuchi-iga-reishi

- Type locality: Tuamoto islands.
- Distribution: Izu islands and southwards, Kii peninsula (KOYAMA, 1998), P6-P5, ECP4-ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
- Habitat: intertidal to 10 m., rocks.
- Original genus: *Ricinula*.

□ Genus *Drupinia* DALL, 1923-b

Type species: *Ricinula digitata* LAMARCK, 1816 (o. d.); = *Drupa glossularia* RÖDING, 1798

G2342 *Drupinia glossularia* (RÖDING, 1798)

(= *Ricinula digitata* LAMARCK, 1816)

Ki-iro-iga-reishi

- Type locality: none designated.
- Distribution: Izu islands and southwards, P6-P5, ECP4-ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
- Habitat: intertidal to 10 m., rocks.
- Original genus: *Drupa*.

□ Genus *Mancinella* LINK, 1807

Type species: *Mancinella aculeata* LINK, 1807 (s. d. IREDALE, 1915; = *Volema alouina* RÖDING, 1798. ICZN op. 911)

(= *Thalessa* H. & A. ADAMS, 1853 in 1853-58; *Tribulus* KLEIN in BRUGUIÈRE, 1792 in 1789-1816; *Planithais* BAYLE in FISCHER, 1884)

G2343 *M. alouina* (RÖDING, 1798)

(= *Purpura mancinella* 'LINNAEUS, 1758' *auct.* (ICZN opinion 911); *Drupa glacialis* RÖDING, 1798; *P. gemmulata* LAMARCK, 1816; *P. mancinella sensu* Y. HIRASE, 1907)

Kina-reishi (= Kina-reishi-damashi)

- Type locality: none designated.
- Distribution: Izu islands and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, tropical Indo-

Pacific.

- Habitat: intertidal to 10 m., rocks.
- Original genus: *Drupa*.

G2344 *M. echinulata* (LAMARCK, 1822 in 1815-22)

Shiro-kuchi-kinareishi

- Type locality: none designated.
- Distribution: Izu islands and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines.
- Habitat: intertidal to 10 m., rocks.
- Original genus: *Purpura*.

G2345 *M. lata* (KURODA, 1931 in 1929-31)

Hiro-kuchi-reishi

- Type locality: Yakushima Island (Kagoshima prefecture, southern Kyūshū).
- Distribution: Kii peninsula (KOYAMA, 1998) and southwards, P5, ECP4.
- Habitat: intertidal to 10 m., rocks.
- Original genus: *Thais* (*Mancinella*).

G2346 *M. siro* (KURODA, 1931 in 1929-31)

Shiro-reishi

- Type locality: Yuzaki, near Tanabe, Kii peninsula, central Honshū.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture), EC5.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Thais* (*Mancinella*).

G2347 *M. bufo* (LAMARCK, 1822 in 1815-22)

Taiwan-reishi

- Type locality: 'les mers de l'Inde?'.
- Distribution: P2; Taiwan and southwards, Philippines, Australia, tropical Indo-Pacific, Red Sea.
- Habitat: intertidal, rocks.
- Original genus: *Purpura*.

G2348 *M. echinata* (BLAINVILLE, 1832)

Uni-reishi

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Purpura*.

G2349 *M. tuberosa* (RÖDING, 1798)

(= *Thais trapa* RÖDING, 1798; *T. castaneus* RÖDING, 1798; *Purpura pica* BLAINVILLE, 1832; *P. pica var. minor* COUTURIER, 1907)

Tsuno-reishi

- Type locality: none designated.
- Distribution: Kii peninsula (KOYAMA, 1998) and southwards, P5, western Japan Sea (Yamaguchi prefecture

KAWAKAMI & ITO, 1997) southern Kyūshū, ECP4-ECP2, P2; Philippines, Australia, tropical western central Pacific.

- Habitat: intertidal to 20 m., coral reefs.
- Original genus: *Thais*.

G2350 *M. hippocastaneum* (LINNAEUS, 1758)  
(= *Thais aculeata* DESHAYES *sensu* KURODA, 1928)  
Tsuno-tetsu-reishi

- Type locality: 'in *O. Asiae ad Bandam*' (Banda Sea, Indonesia).
- Distribution: Izu islands and southwards, P6-P5, southern Kyūshū, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific.
- Habitat: subtidal and subtidal, rocks.
- Original genus: *Murex*.

G2351 *M. intermedia* (KIENER, 1836 in 1834-80)  
Ko-ibo-tetsu-reishi (= Murasaki-reishi)

- Type locality: 'les côtes du Senegal, l'Océan des Grandes-Indes, et la mer Pacifique'.
- Distribution: Izu islands and southwards, P6-P5, EC5, ECP4-ECP2; tropical western Pacific, Polynesia.
- Habitat: intertidal to 10 m., rocks.
- Original genus: *Purpura*.

G2352 *M. aculeata* (DESHAYES & MILNE-EDWARDS, 1844 in LAMARCK, 1835-45)  
(= *Purpura hippocastaneum* LAMARCK, 1822 in 1815-22 *non* LINNAEUS, 1758; *Thais pseudohippocastaneum* DAUTZENBERG, 1929)

- Toge-tsuno-tetsu-reishi
- Type locality: none designated.
  - Distribution: Kii peninsula and southwards, P5, ECP4-ECP2; southeast Asia, Australia.
  - Habitat: intertidal to 10 m., rocks.
  - Original genus: *Purpura*.

**Notes:** *Purpura aculeata* was named and illustrated by Regenfuss, and Deshayes and Milne-Edwards referred to this; Regenfuss' work pre-dates Linnaeus, however, so the latter become the original authors. See JUTTING (1964).

□ Genus *Thais* RÖDING, 1798

Type species: *Murex neritoidea* LINNAEUS, 1767  
(= *Trochia* SWAINSON, 1840; *Dicathais* IREDALE, 1936; *Menthais* IREDALE, 1937-a)

Subgenus *Stramonita* SCHUMACHER, 1817

Type species: *Buccinum haemostoma* LINNAEUS, 1758 (s. d. GRAY, 1847)

G2353 *T. (S.) javanica* (PHILIPPI, 1848)

- Hai-iro-reishi
- Type locality: Java, Indonesia.
  - Distribution: P2; Taiwan and southwards, Philippines, Indonesia, Australia.

- Habitat: intertidal to 10 m., rocks.
- Original genus: *Trochia*.

G2354 *T. (S.) mutabilis* (LINK, 1807 in 1806-08)  
(= *Purpura carinifera* LAMARCK, 1822 in 1815-22)  
Hishi-reishi

- Type locality: 'Ostindien', 'Guinea', 'Insel Corea' and 'Rothen Meere' (East Indies, Guinea, Korea and Red Sea MARTINI & CHEMNITZ, 1777)
- Distribution: P2; Taiwan and southwards, Philippines.
- Habitat: intertidal to 10 m., rocks.
- Original genus: *Mancinella*.

G2355 *T. (S.) armigera* (LINK, 1807 in 1806-08)  
(= *Purpura affinis* REEVE, 1846)

- Shirakumo-gai
- Type locality: none designated.
  - Distribution: Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
  - Habitat: intertidal to 20 m., coral reefs.
  - Original genus: *Mancinella*.

G2356 *T. (S.) savignyi* (DESHAYES in LAMARCK, 1844 in 1835-45)  
(= *Purpura distinguenda* DUNKER & ZELEBOR, 1866; *P. hippocastaneum* var. of *auct. non* LINNAEUS, 1758)  
Tetsu-reishi

- Type locality: 'la mer Rouge' (Red Sea).
- Distribution: Izu islands and southwards, P6-P5, EC5, ECP4-ECP2, P2; tropical Indo-Pacific.
- Habitat: subtidal to subtidal, rocks.
- Original genus: *Purpura*.

Subgenus *Thaisiella* CLENCH, 1947

Type species: *Purpura trinitatensis* GUPPY, 1869 (o. d.)

G2357 *T. (Thaisiella) squamosa* (PEASE, 1868-b)  
Ko-iwa-nishi

- Type locality: 'Kingsmill' (Gilbert islands, Polynesia).
- Distribution: southern Shikoku and southwards, P5, EC5, ECP4-ECP2; tropical Pacific.
- Habitat: intertidal, rocks.
- Original genus: *Sistrum*.

G2358 *T. (Tl.) gradata* (JONAS, 1846-b)  
(= *Purpura trigonia* REEVE, 1846; *P. grateloupiana* PETIT de la SAUSSAYE, 1850; *Drupa (Cronia) buccinea sensu* KURODA, 1941)

- Kasuri-reishi
- Type locality: '*Oc. Indicus, prope Singaporen*' (Singapore).
  - Distribution: Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; Philippines, China, southeast Asia, Australia.
  - Habitat: intertidal, rocks.

- Original genus: *Purpura*.

G2359 *T. (Tl.) kochiana* (SOWERBY III, 1901 in 1901-02)

Tetsu-reishi-modoki

- Type locality: 'Island of Cebu, Philippines'.
- Distribution: southern Shikoku and southwards; Taiwan, Philippines.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Ocenebra*.

Subgenus *Semiricinula* MARTENS, 1903

Type species: *Purpura muricina* BLAINVILLE, 1832

G2360 *T. (S.) muricina* (BLAINVILLE, 1832)

(= *Purpura squamigera* DESHAYES, 1832 (Dec.); *P. foliacea* CONRAD, 1837; *T. brunneolabrum* DALL, 1923)  
Uni-reishi-damashi

- Type locality: 'Des mers Australes, d'ou elle a ete rapportee par MM. Quoy et Gaymard' (southern seas, according to Quoy and Gaimard).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, tropical Pacific.
- Habitat: intertidal, rocks.
- Original genus: *Purpura*.
- **Note:** Blainville's publication appeared in May, 1832 and *muricina* thus predates Deshayes' *squamigera* (fide Sherborn).

Subgenus *Reishia* KURODA & HABE in KURODA *et al.*, 1971

Type species: *Purpura bronni* DUNKER, 1860 (o. d.)

G2361 *T. (R.) bronni* (DUNKER, 1860)

Reishi-gai

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: southern Hokkaidō and southwards, Iwate prefecture (Ōtsuchi bay TSUCHIDA, 1991), P10-P5, Kii peninsula (KOYAMA, 1998), Japan Sea (Oga peninsula, J3-J1), EC5; northern China, Korea.
- Habitat: intertidal to subtidal, rocks.
- Original genus: *Purpura*.

G2362 *T. (R.) clavigera* (KÜSTER, 1860 in 1858-60)

(= *Purpura tumulosa sensu* LISCHKE, 1860; *P. problematica sensu* BAKER, 1891)

Ibo-nishi (= Iwa-nishi; Naga-ibo-nishi)

- Type locality: none designated; type was from Lischke's collection, so possibly from Nagasaki.
- Distribution: southern Hokkaidō and southwards, Iwate prefecture (Ōtsuchi bay TSUCHIDA, 1991), P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea, China, Taiwan.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Purpura*.

G2363 *T. (R.) luteostoma* (HOLTEN, 1803)

Kurifu-reishi

- Type locality: none originally given; 'South Sea and Coast of China' given as type locality by Kuroda, Habe & Ōyama (1971) with no note of designation.
- Distribution: southern Hokkaidō and southwards, northern Honshū to southern Kyūshū, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea, China, southeast Asia.
- Habitat: subtidal to 10 m., rocks and gravel.
- Original genus: *Buccinum*.

G2364 *T. (R.) pseudodiadema* (YOKOYAMA, 1928)

Ohaguro-reishi

- Type locality: Noto peninsula, Japan Sea (fossil).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5.
- Habitat: intertidal to low water, rocks.
- Original genus: *Cuma*.

□ Genus *Nucella* RÖDING, 1798

Type species: *Buccinum lapillus* LINNAEUS, 1758  
(= *Polytropha* SWAINSON, 1840; *Polytropicalicus* ROVERETO, 1899)

G2365 *N. heyseana* (DUNKER, 1882)

(= *Purpura (Trochia) succincta sensu* Y. HIRASE, 1907)  
Chijimi-bora

- Type locality: 'Mare Japonicum' (Japan Sea).
- Distribution: Bōsō peninsula and northwards, Iwate prefecture (Ōtsuchi bay TSUCHIDA, 1991), P8-P10, Japan Sea (Yamagata prefecture (Mega), J4-J6), Hokkaidō, Kuril islands; Korea, Okhotsk Sea.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Purpura*.

G2366 *N. freycineti freycineti* (DESHAYES, 1839)

Ezo-chijimi-bora

- Type locality: 'Kamtschatka' (Kamchatka peninsula, Russia).
- Distribution: Fukushima prefecture and northwards, P8-P10, Hokkaidō, Kuril islands; Korea, Okhotsk Sea.
- Habitat: subtidal, rocks.
- Original genus: *Purpura*.

G2367 *N. freycineti alabaster* PILSBRY, 1907

(= *Purpura (Polytropha) lappilus* LINNAEUS *sensu* Y. HIRASE, 1907)

Naga-chijimi-bora (= Ō-chijimi-bora)

- Type locality: 'Kunajiri, Chishima' (Kunashiri, Kuril islands).
- Distribution: northeastern Honshū (Miyagi prefecture) and northwards, P9-P10, Hokkaidō, Kuril islands.
- Habitat: intertidal to 20 m., rocks.

G2368 *N. lamellosa lamellosa* (GMELIN, 1791)

Hire-chijimi-bora



- Type locality: '*in freto novae Seelandiae insulis interjecto*' (New Zealand; erroneous).
- Distribution: Kuril islands; Bering Sea, Kamchatka peninsula.
- Habitat: intertidal, rocks.
- Original genus: *Buccinum*.

G2369 *N. lamellosa hormica* DALL, 1915

(= *N. freycineti elongata* GOLIKOV & KUSSAKIN, 1962)

Koshitaka-chijimi-bora

- Type locality: Sitka harbour, Alaska.
- Distribution: Bōsō peninsula and northwards, P8-P10, Hokkaidō, Kuril islands; Kamchatka peninsula, Alaska.
- Habitat: intertidal to 20 m., rocks.

G2370 *N. lamellosa lactuca* (ESCHSCHOLTZ, 1829 in 1829-33)

Naga-ezo-chijimi-bora

- Type locality: 'An der Nordwestkuste Amerika's, an der Insel Sitcha' (Sitka Island, Alaska).
- Distribution: Hokkaidō (KURODA & KINOSHITA, 1951); Bering Sea, Alaska.
- Original genus: *Murex*.

G2371 *N. lima* (GMELIN, 1791)

Hoso-suji-chijimi-bora

- Type locality: '*ad Sinum*' (China).
- Distribution: Kuril islands; Kamchatka peninsula, Alaska, Canada, northwestern USA.
- Habitat: intertidal.
- Original genus: *Murex*.

□ Genus *Pinaxia* A. ADAMS, 1855 in H. & A. ADAMS 1853-58

Type species: *Pinaxia coronata* A. ADAMS, 1855 (mt.; = *Pyrula versicolor* GRAY, 1839)

G2372 *P. versicolor versicolor* (GRAY, 1839)

(= *P. coronata* A. ADAMS, 1851; *Purpura* (*Pinaxia*) *multilineata* KÜSTER *sensu* KURODA, 1960; *Pinaxia coronata coronata sensu* FUJIOKA in SAKURAI, 1986)

Kasuri-mikan-reishi

- Type locality: 'Pacific Ocean'.
- Distribution: southern Kyūshū and southwards, ECP4-ECP2, P2; Philippines, Australia, tropical Pacific.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Pyrula*.

G2373 *P. versicolor citrina* (KURODA, 1930 in 1929-31)

Mikan-reishi

- Type locality: Wakayama prefecture (central Honshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture TADA, 1964; J1), EC5, ECP4.
- Habitat: intertidal to 20 m., rocks.

- Original genus: *Conothais*.

□ Genus *Purpura* BRUGUIÈRE, 1792 in 1789-1816

Type species: *Buccinum persicum* LINNAEUS, 1758 (= *Haustrum* PERRY, 1811; *Lepsia* HUTTON, 1884; *Plicopurpura* COSSMANN, 1903; *Purpurella* DALL, 1871; *Patellipurpura* DALL, 1909)

G2374 *Pu. persica* (LINNAEUS, 1758)

Hoso-suji-tetsu-bora

- Type locality: '*in O. Asiatico*' (Asian seas).
- Distribution: Izu islands and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
- Habitat: intertidal, rocks.
- Original genus: *Buccinum*.

G2375 *Pu. panama* (RÖDING, 1798)

(= *Purpura rudolphi* LAMARCK, 1822 in 1815-22; '*P. rudolphii* (*sic*)' CHEMNITZ *sensu* IWAKAWA, 1900) Tetsu-bora

- Type locality: none designated.
- Distribution: Izu islands and southwards, Kii peninsula (KOYAMA, 1998), P6-P5, EC5, ECP4-ECP2, P2; Philippines, tropical Pacific.
- Habitat: intertidal, rocks.
- Original genus: *Thais*.

□ Genus *Vitularia* SWAINSON, 1840

Type species: *Vitularia tuberculata* SWAINSON, 1840 (= *Murex miliaris* GMELIN, 1791) (= *Vitulina* SWAINSON, 1840; *Transefer* IREDALE, 1929)

G2376 *V. miliaris* (GMELIN, 1791)

(= *V. tuberculata* SWAINSON, 1840; *Transefer longmani* IREDALE, 1929; *T. asiaticus* KURODA, 1960) Yōraku-modoki (= Hashinaga-yōraku-modoki)

- Type locality: none designated.
- Distribution: Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Murex*.

□ Genus *Rapana* SCHUMACHER, 1817

Type species: *Buccinum bezoar* LINNAEUS, 1767

G2377 *R. bezoar* (LINNAEUS, 1767)

(= *R. foliacea* SCHUMACHER, 1817; *Pyrula bezoar sensu* REEVE, 1847 (*pars*); *R. bulbosa sensu* Y. HIRASE, 1907)

- Type locality: none designated.
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Noto peninsula, J3-J1), EC5, P2; Philippines, Korea, northern Indian Ocean.

- Habitat: 10-50 m., sandy mud.
- Original genus: *Buccinum*.

G2378 ***R. venosa venosa* (VALENCIENNES, 1846)**  
 (= *Purpura marginata* VALENCIENNES, 1846; *Pyrula bezoar sensu* REEVE, 1847 (*pars*); *R. thomasi* CROSSE, 1861; *R. bezoar japonica* DUNKER, 1882)  
 Aka-nishi

- Type locality: none designated.
- Distribution: southwestern Hokkaidō and southwards, P10-P5, Japan Sea (Wakasa bay, J2-J1), EC5; Korea, northern China.
- Habitat: intertidal to 30 m., sandy mud.
- Original genus: *Purpura*.

**Notes:** introduced in various parts of the world.

G2379 ***R. venosa pechiliensis* GRABAU & KING, 1928**  
 Tsuno-aka-nishi

- Type locality: 'Pechili' (Gulf of Chihli; now Bo-hai, China).
- Distribution: Ariake inland sea (Kyūshū); China.
- Habitat: intertidal to 30 m., sandy mud.

G2380 ***R. rapiformis* (BORN, 1778)**  
 (= *Purpura volema* RÖDING, 1798; *R. bulbosa* DILLWYN, 1817)  
 Shiro-nishi

- Type locality: none designated.
- Distribution: Kii peninsula (KOYAMA, 1998), EC5, ECP4-ECP2, P2; Philippines, Australia.
- Habitat: intertidal to 20 m., sandy mud.
- Original genus: *Murex*.

Subfamily **CORALLIOPHILINAE CHENU, 1859**  
 (Refs.: Kosuge & Suzuki, 1985)

□ Genus ***Coralliophila* H. & A. ADAMS, 1853 in 1853-58**

Type species: *Fusus neritoideus* LAMARCK, 1816  
 (= *Latimurex* COEN, 1922; *Lepodomurex* COEN, 1922; *Latiromurex auct.*; *Aradomurex* COEN, 1947; *Aradasia* SETTEPASSI, 1970 *non* GRAY, 1850)

G2381 ***C. neritoidea* (LAMARCK, 1816-b)**  
 (= *Purpura diversiformis* KIENER, 1836; *P. violacea* KIENER, 1836)

- Kuchi-murasaki-sango-yadori
- Type locality: none designated.
  - Distribution: Izu peninsula and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
  - Habitat: intertidal to 20 m., coral reefs; in clusters on massive corals e.g. Porites, Scleractinia etc.
  - Original genus: *Fusus*.

G2382 ***C. radula* (A. ADAMS, 1855-k)**  
 (= *C. pyriformis* KIRA, 1959-a)

- Toyotsu-gai
- Type locality: 'China' (Cuming collection).
  - Distribution: Izu peninsula and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Australia.
  - Habitat: 10-50 m., on corals.
  - Original genus: *Rhizochilus* (*Coralliophila*).

G2383 ***C. bulbiformis* (CONRAD, 1837-a)**  
 (= *Purpura gibbosa* REEVE, 1846; *P. cantrainei* MONTROUZIER *sensu* SOUVERBIE, 1861; *C. elaborata* H. & A. ADAMS, 1863; *C. cantrainei sensu* KIRA, 1959)  
 Hirase-toyotsu-gai

- Type locality: California, USA.
- Distribution: Izu peninsula and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, tropical western Pacific.
- Habitat: intertidal to 20 m., coral reefs; on Favia, Acropora and other corals.
- Original genus: *Purpura*.

G2384 ***C. squamulosa* (REEVE, 1846 in 1843-65)**  
 Shiwa-toyotsu-gai

- Type locality: island of Ticao, Philippines; on reef at low water.
- Distribution: Kii peninsula (Nada; Minabe KOYAMA, 1987) and southwards, P5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to 20 m., on corals.
- Original genus: *Purpura*.

G2385 ***C. costularis* (LAMARCK, 1816-b)**  
 Suji-sango-yadori

- Type locality: none designated.
- Distribution: Ogasawara islands (FUKUDA, 1995), Izu peninsula and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., on *Montipora venosa*, *Symphillia radians*, *Scleractinia* and other corals.
- Original genus: *Murex*.

G2386 ***C. retusa* H. & A. ADAMS, 1864**  
 Fukabori-sango-yadori (= Arahada-suji-sango-yadori)

- Type locality: none designated (Cuming collection).
- Distribution: Kii peninsula.
- Habitat: 30-50 m.

G2387 ***C. amirantium* E. A. SMITH, 1884**  
 Usu-beni-sango-yadori

- Type locality: 'Marie-Louise, African and Eagle islands, Amirantes' (Indian Ocean).
- Distribution: Ogasawara islands (FUKUDA, 1995), Kii peninsula (Cape Shio KOYAMA, 1987) and southwards, P5; Philippines, Indian Ocean.

**Notes:** *C. coronata* H. ADAMS, 1869-b Beni-sango-yadori (Type locality: Barkly Island, Mauritius) is recorded from

Okinawa (KURODA, 1960); the present authors have not been able to confirm this distribution. It may belong in Muricinae (KOSUGE, 1985).

**G2388 *C. erosa* (RÖDING, 1798)**

(= *Pyrula abbreviatus* LAMARCK, 1816; *Murex plicatus* WOOD, 1818 in 1818-28; *P. deformis* LAMARCK, 1822 in 1815-22; *Rapana (Rhizochilus) fragilis* A. ADAMS in H. & A. ADAMS, 1853-58; *Trichotropis dorbignyanum* PETIT de la SAUSSAYE, 1851; *Rapana (Rhizochilus) coralliophila* A. ADAMS, 1854; *R. (R.) suturalis* A. ADAMS, 1854; *Rhizochilus exarata* PEASE, 1860; *Purpura trichotropoides* MONTROUZIER *sensu* SOUVERBIE, 1861; *C. gala sensu* Y. HIRASE, 1907; *C. stearnsiana* DALL, 1919; *C. groschi* KILBURN, 1977) Kabuto-sango-yadori

- Type locality: none designated.
- Distribution: Izu peninsula and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., on *Acropora*, *Scleractinia* and other corals.
- Original genus: *Cantharus*.

**G2389 *C. jeffreysi* E. A. SMITH, 1879**

(= *C. jeffreysii hiradoensis* PILSBRY, 1904; *jeffreysi*, *jeffreysii* *auct.*)

Hirado-sango-yadori (= Yasegata-sango-yadori)

- Type locality: Seto inland sea: 34° 31' N., 133° 40' E., 22 fms.
- Distribution: Kii peninsula (KOYAMA, 1987) and southwards, P5, Seto inland sea, EC5; Korea (Aninjin), Australia.
- Habitat: subtidal to 50 m., on *Scleractinia* and other massive corals and Gorgons.

**G2390 *C. inflata* (DUNKER in PHILIPPI, 1847-b)**

(= *C. akibumii* KIRA, 1959-a)

Otohime-sango-yadori

- Type locality: 'Insula Java' (Indonesia).
- Distribution: Ogasawara islands (FUKUDA, 1995), Izu islands and southwards, P6-P5, western Kyūshū (Danjo islands); Indonesia.
- Habitat: 50-500 m., sand and shells.
- Original genus: *Fusus*.

**G2391 *C. squamoissima* (E. A. SMITH, 1876)**

(= *C. stearnsii* PILSBRY, 1895)

Kagome-sango-yadori (= Fukuro-sango-yadori)

- Type locality: Rodriguez island, Mauritius.
- Distribution: Bōsō peninsula and southwards, P11, Ogasawara islands, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2, P2; Philippines, Australia, Mauritius.

- Habitat: intertidal to 20 m., on *Actiniaria*, *Zooanthinaria* and *Scleractinia* among rocks.

- Original genus: *Rhizochilus (Coralliophila)*.

**G2392 *C. clathrata* A. ADAMS, 1853 in H. & A. ADAMS, 1853-58**

(= *Coralliobia sugimotonis* KURODA, 1931 in 1929-31) Sugimoto-sango-yadori

- Type locality: 'Philippines'.
- Distribution: Kii peninsula (Nada; Kushimoto KOYAMA, 1987) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
- Habitat: subtidal, in *Palythoa (Palythoa) tuberculosa* (ESPER) and other massive corals.
- Original genus: *Rapana (Rhizochilus)*.

**G2393 *C. morishimai* KURODA & SHIKAMA in SHIKAMA, 1966-a**

Morishima-sango-yadori

- Type locality: Cape Shio, Kii peninsula (central Honshū).
- Distribution: Kii peninsula and southwards, P5, western Japan Sea (Yamaguchi prefecture FUKUDA *et. al.*, 1992), EC5, ECP4-ECP2.
- Habitat: intertidal to 20 m., rocks.

**G2394 *C. ohmurai* KOSUGE, 1985-b**

Ōmura-sango-yadori

- Type locality: Kumomi, western Izu peninsula (central Honshū); ± 12 m.
- Distribution: Izu peninsula, Kii peninsula (Kushimoto KOYAMA, 1987).

**G2395 *C. solutistoma* KURODA & SHIKAMA in SHIKAMA, 1966-a**

Habe-sango-yadori

- Type locality: Okinoshima, Kōchi prefecture (southwestern Shikoku).
- Distribution: Ogasawara islands (FUKUDA, 1995), Kii peninsula (Nada, Gobō City KOYAMA, 1983) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines.
- Habitat: intertidal to 30 m., coral reefs.

**G2396 *C. caroleae* D'ATTILIO & MYERS, 1984**

(= *C. coraleae sensu* KOYAMA, 1987 *err.*)

Neko-jita-sango-yadori

- Type locality: 'Bohol Straits between the Islands of Cebu and Bohol in the Philippine Islands, dredged with bottom nets at 75-100 m'.
- Distribution: Kii peninsula (Minabe; Kushimoto KOYAMA, 1987) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines.
- Habitat: intertidal to 20 m., coral reefs.

**G2397 *C. curta* SOWERBY III, 1894-a**

Mame-sango-yadori

- Type locality: 'Mauritius'.

- Distribution: eastern Kii peninsula (Ōshima, off Nagashima), Okinawa; Philippines, Indian Ocean.
- Habitat: intertidal to 20 m., coral reefs.

G2398 *C. carnosa* KOSUGE, 1986-b

Niku-iro-sango-yadori

- Type locality: Nada, Gobō district, Kii peninsula, central Honshū (Wakayama prefecture); low water.
- Distribution: recorded only from type locality.

G2399 *C. tokioi* KOSUGE, 1985-c

(= *C. fusiformis* SHIKAMA, 1971-b non DALL, 1889)

Naga-nishi-sango-yadori

- Type locality: Tosa bay (Kōchi prefecture, southern Shikoku).
- Distribution: Kii peninsula (off Minabe KOYAMA, 1987), Kōchi prefecture.
- Habitat: 50-150 m., rocks.

G2400 *C. roseocephala* KOSUGE, 1986-b

Tanchō-sango-yadori

- Type locality: Smith Rock (Sumisu-jima), southeastern Izu islands; 200 m.
- Distribution: Smith Rock, Kii peninsula (off Minabe).

G2401 *C. mitraeforma* KOSUGE, 1985-b

Fude-gata-sango-yadori

- Type locality: Punta Engaño, Mactan, Philippines.
- Distribution: off Danjo islands (western Kyūshū); Philippines.

G2402 *C. pulchella* (A. ADAMS, 1854-e)

Chibi-sango-yadori

- Type locality: 'Philippines'.
- Distribution: Kii peninsula (Nada; Kushimoto KOYAMA, 1987; Ōshima, off Nagashima, Mie prefecture); Philippines.
- Habitat: 20-50 m., coral reefs.
- Original genus: *Rapana* (*Rhizochilus*).

G2403 *C. abnormis* (E. A. SMITH, 1879)

(= *Latiaxis* (*Babelomurex*) *chiangi* LAN, 1982; *C.*

*armeniaca* D'ATTILIO & MYERS, 1984)

Futo-une-sango-yadori

- Type locality: off Port Blair, Andaman islands.
- Distribution: Ogasawara islands (FUKUDA, 1995), Kii peninsula (off Cape Shio KOYAMA, 1987), southern Kyūshū (off Kaimon-dake); Philippines, Indian Ocean.
- Original genus: *Fusus*.

G2404 *C. andamana* MELVILL, 1889

Andaman-sango-yadori

- Type locality: 'ad Insulas Andamanenses' (Andaman islands, Indian Ocean).
- Distribution: Kii peninsula (Tsui; Kushimoto KOYAMA, 1987); Andaman islands.

G2405 *C. elvirae* D'ATTILIO & EMERSON, 1980-a

Katakuchi-sango-yadori (= Cha-iro-sango-yadori)

- Type locality: Punta Engaño, Mactan, Philippines; ± 75 m.
- Distribution: Kii peninsula (Nada, Gobō City KOYAMA, 1983; Tsui; Minabe); Philippines.

G2406 *C. flava* KOSUGE, 1985-b

Kuko-sango-yadori

- Type locality: Punta Engaño, Mactan, Philippines.
- Distribution: Ogasawara islands (FUKUDA, 1995), Kii peninsula (off Kushimoto KOYAMA, 1987); Philippines, Réunion.

G2407 *C. infantula* KOSUGE, 1985-b

Warabe-sango-yadori

- Type locality: Punta Engaño, Mactan, Philippines.
- Distribution: Kii peninsula (Tsui KOYAMA, 1987); Philippines to Australia.

G2408 *C. persica* MELVILL, 1897

(= *Latiaxis emimarumai* KOSUGE, 1981)

Emi-sango-yadori

- Type locality: 'Persian Gulf'.
- Distribution: Kii peninsula (off Minabe EKAWA, 1996; KOYAMA, 1994-a); South China Sea, Philippines, Persian Gulf.

□ Genus *Quoyula* IREDALE, 1912

Type species: *Purpura madreporarum* SOWERBY I, 1832

(= *Quoyula sensu* VAUGHT, 1989 *err. pro -ula*)

G2409 *Q. madreporarum* (SOWERBY I, 1832 in

SOWERBY, J. & G. B. I, 1820-34)

(= *Purpura monodonta* QUOY & GAIMARD, 1832)

Hitoha-sango-yadori (= Hana-yasai-sango-yadori)

- Type locality: none designated.
- Distribution: Izu peninsula and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., in colonies on fronds of *Pocillopora* and other branching corals.
- Original genus: *Purpura*.

□ Genus *Coralliofusus* KURODA, 1953

Type species: *Coralliofusus acus* KURODA, 1953 (o. d.)

G2410 *Cs. acus* KURODA, 1953

Yajiri-sango-yadori

- Type locality: off Cape Ashizuri, southwestern Shikoku, 70-80 fms.
- Distribution: Kii peninsula (Cape Shio), off Cape Ashizuri.
- Habitat: 100-150 m.

□ Genus *Coralliobia* H. & A. ADAMS, 1853 in 1853-

Type species: *Coralliobia fimbriata* A. ADAMS, 1853

G2411 *Coralliobia fimbriata* A. ADAMS, 1853 in H. & A. ADAMS, 1853-58

(= *C. sculptilis* PEASE, 1865; *C. cancellata* PEASE, 1868; *C. smithi* YEN, 1942; *C. densicostata* SHIKAMA, 1963-a)

Kōmori-sango-yadori (= Hime-kōmori-sango-yadori)

• Type locality: Cagayan, Mindanao, Philippines; low water on coral reef.

• Distribution: Kii peninsula (Minabe; Kushimoto KOYAMA, 1987) and southwards, P5, southern Kyūshū, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific.

• Habitat: intertidal to 100 m., on corals.

□ Genus *Rhizochilus* STEENSTRUP, 1850

Type species: *Rhizochilus antipathum* STEENSTRUP, 1850

G2412 *R. antipathum* STEENSTRUP, 1850

(= *R. teramachii* KURODA, 1953-a)

Kuchi-nashi-sango-yadori

• Type locality: Indian Ocean

• Distribution: eastern Kii peninsula (off Namikiri, 30-50 m. KIMURA, 1994) and southwards, P5, EC5, ECP4-ECP2; Indo-Pacific, Hawaii.

• Habitat: 100-200 m., parasitic on *Antipathes japonica* BROOK.

□ Genus *Emozamia* IREDALE, 1929

Type species: *Murex licinus* HEDLEY & PETTERD, 1906

G2413 *E. licinus* (HEDLEY & PETTERD, 1906)

(= *E. lamellata* HABE, 1952)

Hire-sango-yadori (= Hire-kasen)

• Type locality: off Sydney, Australia; 300 fms.

• Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, Japan Sea (J2-J1), EC5, ECP4-ECP2, P2; Philippines, Australia.

• Habitat: 100-200 m., rocks.

□ Genus *Latiaxis* SWAINSON, 1840

Type species: *Pyrula mawae* GRIFFITH & PIDGEON, 1834 (mt.)

G2414 *L. mawae* (GRIFFITH & PIDGEON, 1834)

(= *L. mairae sensu* GRAY, 1867 err.; *L. delesserti* TRYON, 1880; *L. kylix* BARNARD, 1959)

Mizusui-gai

• Type locality: east Africa.

• Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (off Mishima, J2-J1), EC5, ECP4-ECP2, P2; Philippines, Australia, east Africa.

• Habitat: 50-200 m., parasitic on Coelenterata.

• Original genus: *Pyrula*.

G2415 *L. pilsbryi* HIRASE, 1908-b

Haguruma-mizusui

• Type locality: Kashiwajima, southwestern Shikoku.

• Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, South China Sea.

• Habitat: 50-200 m., coral.

G2416 *L. hayashii* SHIKAMA, 1966-a

Hayashi-kasen

• Type locality: Okinoshima, southwestern Shikoku.

• Distribution: recorded only from type locality.

G2417 *L. latipinnatus* AZUMA, 1961-b

Tosa-kikyō-nishi

• Type locality: Tosa bay, southern Shikoku; 80-100 fms.

• Distribution: eastern Kii peninsula (off Nagashima, Mie prefecture) and southwards, P5; South China Sea, Philippines.

• Habitat: 150-200 m., coral.

□ Genus *Mipus* GREGORIO, 1885

Type species: *Trophon gyratus* HINDS, 1844

(= *Rhombothais* WOOLACOTT, 1954)

G2418 *M. gyratus* (HINDS, 1844 in 1844-45)

(= *Pyrula idoleum* JONAS, 1847; *P. fusiformis* CHENU in ROLAND du ROQUAN, 1853; *Latiaxis tortilis* H. & A. ADAMS, 1864; *L. pagodus* SOWERBY, 1882)

Tōgata-mizusui

• Type locality: 'Straits of Macassar. In seventeen fathoms, coarse sand' (Indonesia).

• Distribution: Kii peninsula and southwards, P5, Japan Sea (Wakasa bay, J2-J1), EC5, ECP4-ECP2, East China Sea, P2; Philippines, South China Sea, New Britain.

• Habitat: 50-200 m.

• Original genus: *Trophon*.

G2419 *M. crebrilamellosus* (SOWERBY III, 1913-a)

Chijiwa-sango-yadori

• Type locality: 'Kii, Japan' (Kii peninsula, central Honshū).

• Distribution: Kii peninsula (KOSUGE & SUZUKI, 1985) and southwards, P5, EC5, ECP4-ECP2, P2; South China Sea.

• Habitat: 30-60 m., coral reefs.

• Original genus: *Pseudomurex*.

G2420 *M. mamimarumai* (KOSUGE, 1980-f)

Hoso-chijiwa-sango-yadori

• Type locality: South China Sea, ± 150 m.

• Distribution: Kii peninsula (off Minabe) and southwards, P5 (Tosa bay KOSUGE & SUZUKI, 1985), P2; South China Sea.

• Habitat: 50-200 m., coral reefs.

• Original genus: *Latiaxis*.

G2421 *M. eugeniae* (BERNARDI, 1853-b)

(= *Latiaxis fortunei* A. ADAMS in H. & A. ADAMS, 1853-58)

Hire-nashi-mizusui

- Type locality: 'aux mers de la Chine' (China seas).
- Distribution: Kii peninsula (KOSUGE & SUZUKI, 1985) and southwards, P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2; Philippines, Australia.
- Habitat: 20-100 m., sand.
- Original genus: *Pyrula*.

G2422 *M. hotei* KOSUGE, 1985-b

Hotei-kasen

- Type locality: Punta Engaño, Mactan island, Philippines.
- Distribution: Kii peninsula (KOSUGE & SUZUKI, 1985) and southwards, P5; Philippines.

G2423 *M. intermedius* KOSUGE, 1985-b

Benitsuke-mizusui

- Type locality: Bohol island, Philippines.
- Distribution: Kii peninsula and southwards; Philippines.

G2424 *M. matsumotoi* KOSUGE, 1985-a

Matsumoto-mizusui

- Type locality: Tosa bay (southern Shikoku); ± 180 fms.
- Distribution: recorded only from type locality.

G2425 *M. ovoideus* KOSUGE, 1985-b

Shiratama-kasen

- Type locality: Bohol island, Philippines.
- Distribution: Tosa bay (southern Shikoku KOSUGE & SUZUKI, 1985) and southwards; Philippines.

G2426 *M. miyukiae* KOSUGE, 1985-b

Miyuki-kasen

- Type locality: off Minabe, Wakayama prefecture (central Honshū); in lobster nets, 60-70 m.
- Distribution: Kii peninsula (off Minabe; off Kii-Nagashima).
- Habitat: 50-100 m., rocks.

G2427 *M. sugitanii* KOSUGE, 1985-a

Sugitani-mizusui

- Type locality: Tosa bay (southern Shikoku); ± 180 m.
- Distribution: Tosa bay, Kii peninsula (off Tanabe).

G2428 *M. tabulatus* (SCHEPMAN, 1911 in 1908-13)

Heritori-kasen

- Type locality: 'Siboga' sta. 95: 05° 43.5' N., 119° 40' E., 'Sulu-archipelago. 522 m. Stony bottom' (north off Tawi-tawi, near Cap islands, Sulu archipelago, southern Philippines).
- Distribution: Kii peninsula (Minabe; Cape Shio); Philippines, Sulu Sea.
- Original genus: *Latiaxis*.

G2429 *M. tortuosus* (AZUMA, 1961-a)

Furuya-kasen

- Type locality: Tosa bay off Kōchi prefecture (southern Shikoku); ± 100 fms.

- Distribution: Kii peninsula (Cape Shio), Tosa bay; Mozambique Channel, Indian Ocean.

□ Genus *Babelomurex* COEN, 1922

Type species: *Fusus babelis* REQUIEN, 1848

(= *Langfordia* DALL, 1924; *Tolema* IREDALE, 1929)

Subgenus *Babelomurex* s. str.

G2430 *B. (B.) japonicus* (DUNKER, 1882)

(= *Latiaxis sallei* JOUSSEAUME, 1883)

Ten'nyo-no-kamuri

- Type locality: 'mari Japonico mediterraneo' (Seto inland sea).
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, EC5, ECP4-ECP2, East China Sea, P2; South China Sea, Philippines, Australia, Hawaii.
- Habitat: 30-360m, coarse sand and stones.
- Original genus: *Rapana*.

G2431 *B. (B.) lischkeanus* (DUNKER, 1882)

(= *Tolema peregrina* POWELL, 1947; *T. australis* LASERON, 1955)

Kasen-gai

- Type locality: 'mari Japonico mediterraneo' (Seto inland sea).
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, EC5, ECP4-ECP2, P2; Philippines, East China Sea, South China Sea, Australia, New Zealand.
- Distribution: 50-200 m., coarse sand and stones.
- Original genus: *Rapa*.

G2432 *B. (B.) yamatoensis* KOSUGE, 1986-b

Yamato-kasen

- Type locality: South China Sea, by coral boats.
- Distribution: Wakayama prefecture (central Honshū); South China Sea.

G2433 *B. (B.) nakamigawai* (KURODA, 1959-a)

Nakamigawa-kasen

- Type locality: Tosa bay, off Kōchi prefecture (southern Shikoku).
- Distribution: Suruga bay and southwards (Enshū-nada OKUTANI, 1964-b), Tosa bay; South China Sea, Philippines, Australia, South Africa.
- Habitat: 100-300 m., rocks.
- Original genus: *Latiaxis*.

G2434 *B. (B.) kinoshitai* (FULTON, 1930)

Kinoshita-kasen

- Type locality: Kii peninsula (Wakayama prefecture, central Honshū).
- Distribution: Kii peninsula and southwards, P5; South China Sea, Philippines.
- Habitat: 50-200 m., rocks.
- Original genus: *Latiaxis*.

G2435 ***B. (B.) armatus* (SOWERBY III, 1912)**

Kabuto-kasen

- Type locality: South China Sea.
- Distribution: Kii peninsula (KOSUGE & SUZUKI, 1985) and southwards, P5, EC5, ECP4-ECP2, P2; South China Sea, Philippines, Australia.
- Habitat: 30-150 m., rocks.
- Original genus: *Latiaxis*.

G2436 ***B. (B.) blowi* (LADD, 1976)**

(= *Latiaxis (Tolema) regius* SHIKAMA, 1978)

Taishi-no-kamuri

- Type locality: Kere River outcrops, Santo, New Hebrides (fossil).
- Distribution: Kii peninsula (Ōshima off Nagashima, Mie prefecture; Wagu; Namakiri; Minabe); off southwestern Taiwan, Philippines, Vanuatu (New Hebrides).
- Habitat: 50-100 m., rocks.
- Original genus: *Latiaxis (Tolema)*.

G2437 ***B. (B.) shingomarumai* (KOSUGE, 1981-a)**

Shingo-kasen

- Type locality: off Nada (fishing port), Gobō district, Kii peninsula (central Honshū).
- Distribution: Kii peninsula (Ōshima, off Nagashima; Wagu; Namakiri; off Nada; Kushimoto).
- Habitat: 40-100 m., rocks.
- Original genus: *Latiaxis (Babelomurex)*.

G2438 ***B. (B.) cariniferoides* (SHIKAMA, 1966-a)**

Togari-kasen

- Type locality: off Nada (fishing port), Gobō district, Kii peninsula (central Honshū).
- Distribution: southeastern Kii peninsula and southwards, Tosa bay, western Kyūshū.
- Habitat: 50-200 m., sand.
- Original genus: '*Latiaxis (Babelomurex)*', *err. pro Babelo-*.

G2439 ***B. (B.) stenospinosus* (KURODA, 1961-d)**

Kuchi-murasaki-mizusui

- Type locality: Tosa bay, southern Shikoku.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5.
- Habitat: 50-200 m., rocks.
- Original genus: *Latiaxis* (as ssp. of *L. deburghiae*).

G2440 ***B. (B.) deburghiae* (REEVE, 1857-a)**

Kikyō-nishi

- Type locality: 'China'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (off Mishima, J2-J1), EC5, ECP4-ECP2, P2; Philippines, South China Sea, Indonesia.
- Habitat: 20-200 m., rocks.
- Original genus: *Pyrula (Rhizochilus)*.

G2441 ***B. (B.) hirasei* (SHIKAMA, 1964)**

Hirase-kikyō-nishi

- Type locality: Tosa bay (southern Shikoku).
- Distribution: Tosa bay and southwards, P5, East China Sea; South China Sea, Philippines.
- Original genus: *Latiaxis (Babelomurex)*.

G2442 ***B. (B.) finchii* (FULTON, 1930)**

(= *Rapana deburghiae sensu* DUNKER, 1882 *non* REEVE, 1857; *Latiaxis dunkeri* KURODA & HABE, 1961)

Shiro-kikyō-nishi (= Shiwa-gikyo)

- Type locality: Kii peninsula (central Honshū).
- Distribution: Kii peninsula and southwards, P5, EC5, East China Sea, ECP4-ECP2, P2; South China Sea, Philippines.
- Habitat: 100-200 m., sand.
- Original genus: *Latiaxis*.

G2444 ***B. (B.) kawamurai kawamurai* (KIRA, 1959-a)**

Kawamura-kasen

- Type locality: Tosa bay (southern Shikoku); 80-100 fms.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, East China Sea, P2; South China Sea, Philippines, Australia, Mozambique Channel.
- Habitat: 100-400 m., rocks.
- Original genus: *Latiaxis*.

G2445 ***B. (B.) kawamurai helenae* (AZUMA, 1973)**

(= *Latiaxis (Babelomurex) nakamigawai io* KILBURN, 1974; *B. fusiformis sensu* KOSUGE & SUZUKI, 1985) Heren-kasen

- Type locality: Tosa bay (southern Shikoku).
- Distribution: Tosa bay and southwards.
- Original genus: *Latiaxis (Babelomurex)*.

G2446 ***B. (B.) longispinosus* SUZUKI, 1972-b**

(= *Latiaxis pisori* D'ATTILIO & EMERSON, 1980-a)

- Type locality: off Onna, Okinawa island.
- Distribution: Kii peninsula (Kii strait, 55 m. D'ATTILIO & EMERSON, 1980-a) and southwards, P5, ECP4-ECP2, P2; Taiwan, Philippines.
- Habitat: 50-200 m., rocks.
- Original genus: *Latiaxis*.

**Notes:** see EMERSON & SAGE (1987).

G2447 ***B. (B.) pagodus pagodus* (A. ADAMS, 1853 in H. & A. ADAMS, 1853-58)**

(= *Latiaxis spinosus* Y. HIRASE, 1908; *L. jeannee* D'ATTILIO & MYERS, 1984)

Hime-kasen

- Type locality: none designated (Cuming collection).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, East China Sea, P2; South China Sea, Philippines, northern Australia.
- Habitat: 50-200 m., rocks.

- Original genus: *Muricidea*.

G2448 ***B. (B.) pagodus spinosus* (DALL, 1925)**

Toge-hime-kasen (= Toge-kasen)

- Type locality: 'Albatross' sta. 3700, off Honshū; 63 fms., sand.

• Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2.

• Habitat: 50-200 m., rocks.

• Original genus: *Coralliophila*.

G2449 ***B. (B.) pagodus multispinosus* (SHIKAMA, 1966-a)**

Azami-kasen

- Type locality: off Nada (fishing port), Gobō district, Kii peninsula (central Honshū).

• Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2.

• Habitat: 50-200 m., rocks.

• Original genus: '*Latiaxis (Baberomurex)*' *err. pro Babelo-*

G2450 ***B. (B.) princeps* (MELVILL, 1912)**

Kumadori-kasen

- Type locality: 'Persian Gulf, 50 fms; near Mussandam, 55 fms.'

• Distribution: Miyako-jima (Okinawa prefecture KUBO, 1993-b), P2; Philippines, Persian Gulf.

• Habitat: 50-200 m., rocks.

• Original genus: *Latiaxis*.

G2451 ***B. (B.) pervernicosus* (SUZUKI, 1972-b)**

Nuri-tsuya-kasen

- Type locality: off Ogasawara islands, 200 m.

• Distribution: Ogasawara islands, Torishima (Izu islands).

• Original genus: *Latiaxis (Babelomurex)*.

G2452 ***B. (B.) nakayasui* (SHIKAMA, 1970)**

Nakayasu-kasen

- Type locality: Kashiwajima, southwestern Shikoku.

• Distribution: eastern Kii peninsula (Ōshima, off Nagashima), Tosa bay; South China Sea, Philippines.

• Habitat: 50-200 m., rocks.

• Original genus: '*Latiaxis (Baberomurex)*' *err. pro Babelo-*

G2453 ***B. (B.) nagahorii* (KOSUGE, 1980-b)**

Nagahori-kasen

- Type locality: off Mactan, Cebu, Philippines.

• Distribution: Kii peninsula (KOSUGE & SUZUKI, 1985); Philippines.

• Original genus: *Latiaxis (Babelomurex)*.

G2454 ***B. (B.) tosanus* (HIRASE, 1908-b)**

Tosa-kasen

- Type locality: Kashiwajima, southwestern Shikoku.

• Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; South China Sea, Philippines.

• Habitat: 50-200 m., sand.

• Original genus: *Latiaxis*.

G2455 ***B. (B.) fearnleyi* (EMERSON & D'ATILIO, 1965)**

Ise-kasen

- Type locality: Cooktown, Queensland, Australia; 8 fms, coral reef.

• Distribution: Kii peninsula (KOSUGE & SUZUKI, 1985) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Australia.

• Habitat: 20-100 m., coral reefs.

Subgenus ***Laevilatiaxis* KOSUGE, 1979-c**

Type species: *Latiaxis fructicosus* KOSUGE, 1979 (o. d.)

G2456 ***B. (L.) gemmatus* (SHIKAMA, 1966-a)**

(= *Latiaxis (Laevilatiaxis) mactanica* KOSUGE, 1979-c) Adeyaka-kasen (= Makutan-hime-kasen)

- Type locality: Okinoshima, southwestern Shikoku.

• Distribution: Ogasawara islands (FUKUDA, 1995), off Kii peninsula and southwards, P5, western Japan Sea (Yamaguchi prefecture FUKUDA *et. al.*, 1992), EC5, ECP4-ECP2, P2; South China Sea, Philippines.

• Habitat: 50-200 m., rocks.

• Original genus: '*Latiaxis (Baberomurex)*' *err. pro Babelo-*

G2457 ***B. (L.) couturieri* (JOUSSEAUME, 1898-a)**

(= *Murex (Langfordia) cuspidifera* DALL, 1924; *Latiaxis diadema* A. ADAMS *sensu* HABE, 1961)

Okagura-kasen

- Type locality: 'Nouvelle-Bretagne (Océanie)' (New Britain, Papua New Guinea).

• Distribution: Kii peninsula (KOSUGE & SUZUKI, 1985) and southwards, western Kyūshū, ECP2; South China Sea, Philippines.

• Habitat: 50-200 m., sand.

• Original genus: *Latiaxis*.

Subgenus ***Echinolatiaxis* KOSUGE, 1979-c**

Type species: *Latiaxis echinatus* AZUMA, 1960 (o. d.)

G2458 ***B. (E.) echinatus* (AZUMA, 1960)**

Uni-kasen

- Type locality: Tosa bay, southern Shikoku.

• Distribution: Kii peninsula (off Esuzaki) and southwards, P5, EC5; Philippines.

• Habitat: 100-200 m., rocks.

• Original genus: *Latiaxis*.

G2459 ***B. (E.) sibogae* (SCHEPMAN, 1911 in 1908-13)**

Chirimmen-kasen

- Type locality: 'Siboga' sta. 89, 'Pulu Kaniungan ketjil.



Reef.' (off Cape Mangkalihat, eastern Borneo).

- Distribution: Kii strait (KOYAMA, 1992); South China Sea, Philippines, Indonesia.
- Original genus: *Latiaxis*.

G2460 *B. (E.) kawanishii* (KOSUGE, 1979-c)

Kawanishi-kasen

- Type locality: near Paracel islands, South China Sea, ± 200 m.
- Distribution: Ogasawara islands, Torishima (Izu islands) (KOSUGE & SUZUKI, 1985); South China Sea.
- Habitat: 100-200 m., rocks.
- Original genus: *Latiaxis* (*Echinolatiaxis*).

G2461 *B. (E.) spinaerosae* (SHIKAMA, 1970)

Bara-iro-kasen

- Type locality: Kashiwajima, Kōchi prefecture (southwestern Shikoku).
- Distribution: Kii strait and southwards, P5, EC5, ECP4-ECP2, P2; South China Sea, Philippines.
- Original genus: '*Latiaxis* (*Baberomurex*)', *err. pro Babelo-*.

G2462 *B. (E.) takahashii* (KOSUGE, 1979-c)

Takahashi-kasen

- Type locality: off Mactan, Cebu, Philippines; ± 100 m.
- Distribution: Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; Philippines.
- Habitat: 50-150 m., rocks.
- Original genus: *Latiaxis* (*Echinolatiaxis*).

G2463 *B. (E.) indicus* (E. A. SMITH, 1899)

(= *Latiaxis kieneri* HIDALGO, 1905; *L. michikoeae*

SHIKAMA, 1978)

Shikama-kasen

- Type locality: 'Investigator' sta. 232, off southern India: 7° 17' 30" N., 76° 54' E., 430 fms.
- Distribution: Kii peninsula (off Esuzaki) and southwards, Tosa bay; Philippines, Indonesia, India.
- Habitat: 100-200 m., rocks.
- Original genus: *Coralliophila*.

G2464 *B. (E.) kiranus* (KURODA, 1959-a)

(= *Latiaxis* (*Babelomurex*) *kanamarui* SHIKAMA, 1978)

Kira-kasen (= Kanamaru-kasen)

- Type locality: Tosa bay, southern Shikoku.
- Distribution: Tosa bay and southwards, P5, EC5, ECP4-ECP2; South China Sea, Philippines.
- Habitat: 100-200 m., rocks.
- Original genus: *Latiaxis*.

Subgenus *Lamellatiaxis* HABE & KOSUGE, 1970-c

Type species: *Latiaxis* (*Lamellatiaxis*) *marumai* HABE & KOSUGE, 1970 (o. d.)

(= *Lamellatiaxis* HABE & KOSUGE, 1970: Pacific Shell News 1: 7, *nom. nud.*)

G2645 *B. (L.) habui* (AZUMA, 1971-a)

Habu-kasen

- Type locality: 2-3 km off Cape Kirime, Kii peninsula, central Honshū (Wakayama prefecture); 40-50 fms.
- Distribution: Kii peninsula and southwards, Tosa bay; Philippines.
- Habitat: 50-100 m., sand.
- Original genus: *Latiaxis* (*Lamellatiaxis*).

Subgenus *Tarantellaxis* HABE, 1970-b

Type species: *Tarantellaxis kuroharai* HABE, 1970 (o. d.)

G2466 *B. (T.) kuroharai* (HABE, 1970-b)

Kurohara-kasen

- Type locality: off Okinoshima, southwestern Shikoku, ± 150 m.
- Distribution: southern Shikoku; South China Sea.
- Original genus: *Tarantellaxis*.

□ Genus *Hirtomurex* COEN, 1922

Type species: *Fusus lamellosus* PHILIPPI, 1836

(= *Fusomurex* COEN, 1922)

G2467 *H. filiaregis* (KUROHARA, 1959-a)

Suganomiya-kasen

- Type locality: Tosa bay, southern Shikoku.
- Distribution: Kii peninsula (off Ichie, 120 fms.) and southwards, southwestern Shikoku (Cape Ashizuri; Bungo strait); Philippines.
- Habitat: 100-200 m., rocks.
- Original genus: *Latiaxis*.

G2468 *H. isschikiensis* (SHIKAMA, 1971-b)

Isshiki-sango-yadori

- Type locality: trawled off Isshiki, Aichi prefecture (central Honshū).
- Distribution: Enshū-nada (off Aichi prefecture) and westwards, Kumano-nada (Mie prefecture), off Kii peninsula, Tosa bay.
- Habitat: 100-400 m., rocks.
- Original genus: *Coralliophila* (*Hirtomurex*).

G2469 *H. kawamurai* (SHIKAMA, 1978)

(= *H. yamamurai* GOTŌ, 1990)

Kawamura-sango-yadori (= Yamamura-kasen)

- Type locality: 'Tosa' (Tosa bay, southern Shikoku).
- Distribution: off Kumano City, (Mie prefecture), southern Kii peninsula (off Kushimoto), Tosa bay; Philippines.
- Original genus: *Coralliophila* (*Hirtomurex*).

G2470 *H. winckworthi* (FULTON, 1930)

(= *Latiaxis scobina* KILBURN, 1973; *L. translucidus* KOSUGE, 1981)

Hijiri-no-kamuri

- Type locality: Kii peninsula (central Honshū).
- Distribution: Kii peninsula and southwards, western

Kyūshū, P5, EC5, ECP4-ECP2, P2; Philippines, South China Sea, South Africa.

- Habitat: 150-200 m., sand.
- Original genus: *Latiaxis*.

G2471 *H. teramachii* (KURODA, 1959-a)

Teramachi-kasen

- Type locality: Tosa bay (southern Shikoku).
- Distribution: Kii peninsula and southwards, Tosa bay (KOSUGE & SUZUKI, 1985); Philippines (Bohol), Australia.
- Habitat: 150-480 m., sand.
- Original genus: *Latiaxis*.

G2472 *H. nakamurai* KOSUGE, 1985-a

Nakamura-kasen

- Type locality: Tosa bay (southern Shikoku); ± 150 m.
- Distribution: Kii peninsula, Tosa bay (150-180 m.); Australia (430-455 m.)

G2473 *H. oyamai* KOSUGE, 1985-a

Ōyama-kasen

- Type locality: Tosa bay (southern Shikoku); ± 180 m.
- Distribution: Kii peninsula, Tosa bay; Philippines.

G2474 *H. vertigo* KOSUGE, 1986-b

Kazaguruma-kasen

- Type locality: off Kushimoto, Kii peninsula (central Honshū); ± 120 m.
- Distribution: recorded only from type locality.

□ Genus *Rapa* BRUGUIÈRE, 1792 in 1789-1816

Type species: *Murex rapa* LINNAEUS, 1758

(= *Rapanus* SCHUMACHER in SOWERBY, 1839; *Rapella* SWAINSON, 1840; *Bulbus* HERRMANNSEN, 1848 non BROWN, 1839)

G2475 *R. rapa* (LINNAEUS, 1758)

(= *Pyrula pellucida* RÖDING, 1798; *P. striata* RÖDING, 1798; *P. papyracea* LAMARCK, 1816; *Rapa tenuis* H. & A. ADAMS, 1858)

Kabura-gai

- Type locality: 'in *O. Asiatico, rarius*' (Asian seas, rare).
- Distribution: Kii peninsula (off Minabe; Cape Shio KOYAMA, 1987) and southwards, Tosa bay, P5, ECP4-ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., in base of Alcyonium and other soft corals.
- Original genus: *Murex* (changed to *Bulla* in LINNAEUS, 1767).

G2476 *R. incurva* (DUNKER, 1852 in 1852-53)

(= *R. penaldi* MONTROUZIER, 1856)

Ki-iro-kabura

- Type locality: 'China?'
- Distribution: Kii peninsula (Kushimoto KOYAMA, 1987)

and southwards, P5, ECP3-ECP2, P2; Philippines, tropical Indo-Pacific.

- Habitat: intertidal to 20 m., in base of soft corals.
- Original genus: *Bulbus*.

G2477 *R. bulbiformis* SOWERBY III, 1870

(= '*R. incurva*?' sensu S. HIRASE, 1934 (*pars.*))

Taka-kabura

- Type locality: Tonga-Tabu island, Tonga.
- Distribution: Kii peninsula (Minabe; Kushimoto KOYAMA, 1987) and southwards, P5, ECP4-ECP2, P2; Philippines, Australia, southern Pacific.
- Habitat: intertidal to 20 m., embedded in sponges (Porifera).

□ Genus *Magilus* MONTFORT, 1810 in 1808-10

Type species: *Magilus antiquus* MONTFORT, 1810

(= *Leptoconchus* RUPPELL, 1834; *Magilopsis* SOWERBY, 1919)

G2478 *M. antiquus* MONTFORT, 1810 in 1808-10

(= *M. peroni* LAMARCK, 1818; *Leptoconchus ruppeli*, *L. cumingii*, *L. cuvieri* all DESHAYES, 1863; *M. globulosus* SOWERBY, 1872; *M. microcephalus* SOWERBY, 1872; *M. serratus* SOWERBY, 1872)

Ishi-kabura (= Kabura-modoki)

- Type locality: 'des Indes' (East Indies).
- Distribution: Kii peninsula (Kushimoto KOYAMA, 1987) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
- Habitat: intertidal to 50 m., embedded in massive stone corals (*Scleractinia*).

G2479 *M. lamarckii* (DESHAYES, 1863)

Hoso-muro-gai

- Type locality: Réunion island, Indian Ocean.
- Distribution: Kii peninsula (Minabe; Kushimoto KOYAMA, 1987) and southwards, P5, EC5, ECP4-ECP2; Indo-Pacific, Indian Ocean.
- Habitat: intertidal to 20 m., embedded in massive stone corals.
- Original genus: *Leptoconchus*.

G2480 *M. expolitus* (SHIKAMA, 1963-a)

Tsuya-muro-gai

- Type locality: 'west of Shionomisaki, Wakayama Pref.' (Cape Shio, southern Kii peninsula).
- Distribution: Kii peninsula, Okinawa.
- Habitat: intertidal to 20 m., embedded in massive stone corals.
- Original genus: *Leptoconchus*.

G2481 *M. ellipticus* SOWERBY, 1832 in SOWERBY, J. & G. B. I, 1820-34

(= *M. djedah* CHENU, 1842; *M. tenuis* CHENU, 1842; *Leptoconchus schrenckii* LISCHKE, 1871)

Tama-muro-gai (= Hime-muro-gai)

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2; Indo-Pacific.
- Habitat: intertidal to 20 m., embedded in massive stone corals.

G2482 *M. costatus* SOWERBY II, 1872

Suji-ishi-kabura

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2.
- Habitat: intertidal to 20 m., embedded in massive stone corals.

G2483 *M. rostratus* (A. ADAMS, 1864-d)

Kuwai-gai

- Type locality: 'Kino-O-Sima' (Kii-Ōshima, Kii peninsula), in coral.
- Distribution: Kii peninsula, Amami islands and southwards, ECP3-ECP2; Indo-Pacific.
- Habitat: intertidal to 20 m., embedded in massive stone corals.
- Original genus: *Leptoconchus*.

Family TURBINELLIDAE SWAINSON, 1835

(= VASIDAE H. & A. ADAMS, 1853)

Subfamily VASINAE H. & A. ADAMS, 1853 in 1853-58

(Refs.: Abbott, 1959)

□ Genus *Vasum* RÖDING, 1798

Type species: *Murex turbinellus* LINNAEUS, 1758

G2484 *V. turbinellus* (LINNAEUS, 1758)

(= *Volutella nigra* PERRY, 1811; *Vasum cornigera*

LAMARCK, 1822 in 1815-22; *Vasum variolaris*

LAMARCK, 1822 in 1815-22; *turbinellum auct.*)

Ko-oni-kobushi

- Type locality: 'in *O. Asiatico, ad Nussaanan*' (Indonesia).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Australia, Indo-Pacific.
- Habitat: intertidal to 5 m., rocks.
- Original genus: *Murex* (changed to *Voluta* in LINNAEUS, 1767).

G2485 *V. ceramicum* (LINNAEUS, 1758)

(= *Turbinella spinosus* FISCHER, 1807)

Oni-kobushi

- Type locality: 'in *O. Asiae ad Ceram*' (Ceram island, Indonesia).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
- Habitat: intertidal to 10 m., rocks.
- Original genus: *Murex* (changed to *Voluta* in LINNAEUS, 1767).

Subfamily PTYCHATRACTINAE STIMPSON, 1865-b

□ Genus *Ptychatractus* STIMPSON, 1871

Type species: *Fasciolaria ligata* MIGHELS & ADAMS, 1842

G2486 *P. occidentalis* STEARNS, 1871

(= *P. sasamorii* KURODA, 1943 in 1943-45)

Ezo-tsunomata

- Type locality: Bering Sea, near Nagai island.
- Distribution: Kuril islands and northwards, Bering Sea, Alaska.
- Habitat: 300-1400 m., rubble.

□ Genus *Benthovoluta* KURODA & HABE, 1950-c

Type species: '*Phenacoptygma?*' *kiiensis* KURODA, 1931 (o. d.; = *Voluta hilgendorfi* MARTENS, 1897)

G2487 *B. hilgendorfi* (MARTENS, 1897)

(= *Mitra plicifera* YOKOYAMA, 1920; '*Phenacoptygma*

(?)' *kiiense* KURODA, 1931-b; *B. hilgenfordi sensu*

OKUTANI, 1964-a *err. pro -dorfi*)

Tsunoki-fude

- Type locality: 'Hakodate' (Hokkaidō; 'probably in error' fide OKUTANI, 1964-b; KURODA *et al.*, 1971).
- Distribution: Izu islands (off Hachijō island, 480 m. OKUTANI, 1964-b), Bōsō peninsula and southwards, Sagami bay, P7-P5, Tosa bay, EC5, ECP4, East China Sea.
- Habitat: 50-200 m., sand.
- Original genus: *Voluta*.

G2488 *B. barthelowi* (BARTSCH, 1942)

(= *B. deliculata* SHIKAMA, 1971-b)

Hime-watazoko-bora (= Hime-tsunoki-fude)

- Type locality: 'Albatross' sta. 5425, off Cagayan island, Philippines.
- Distribution: P2; central East China Sea, South China Sea, Taiwan, Philippines.
- Habitat: 250-1000 m., sandy mud.
- Original genus: *Prodallia*.

G2489 *B. sakashitai* HABE, 1976-b

Migaki-tsunoki-fude

- Type locality: off Makurazaki (cape), southern Kyūshū; 350-360 m.
- Distribution: western Kyūshū (off Koshiki islands) to southern Kyūshū (off Kaimondake, Kagoshima prefecture).
- Habitat: 300-400 m., sandy mud.

□ Genus *Ceratoxancus* KURODA, 1952-d

Type species: *Ceratoxancus teramachii* KURODA, 1952 (o. d.)

G2490 *C. teramachii* KURODA, 1952-d

(= *C. elongatus* SAKURAI, 1957)

Fude-gai-modoki (= Tsumugata-fude-gai-modoki)

- Type locality: Kii peninsula (central Honshū).
- Distribution: Kii peninsula and westwards, P5, Tosa bay,

EC5.

- Habitat: 150-200 m., sandy mud.

Subfamily **COLUMBARIINAE TOMLIN, 1928**

(Refs.: Habe, 1953-b)

□ Genus ***Columbarium* MARTENS, 1881**

Type species: *Pleurotoma (Columbarium) spinicinctum* MARTENS, 1881 (mt.)

G2491 ***C. pagoda pagoda* (LESSON, 1834 in 1832-35)**  
(= *Fusus japonicus* GRAY, 1839; *F. diadema* SOWERBY, 1880)

Ito-guruma (Tsumu-bai)

- Type locality: 'ignota' (unknown).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and westwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4, East China Sea.
- Habitat: 20-300 m., fine sand.
- Original genus: *Fusus*.

G2492 ***C. pagoda stellatum* HABE, 1953-b**

Myōjō-ito-guruma

- Type locality: Tosa bay (southern Shikoku).
- Distribution: Tosa bay.

G2493 ***C. pagoda costata* SHIKAMA, 1963-a**

Kasen-ito-guruma

- Type locality: off Hirado island, Nagasaki prefecture, western Kyūshū.
- Distribution: Japan Sea (Noto peninsula and southwards, J2-J1), EC5.

Family **BUCCINIDAE RAFINESQUE, 1815**

(Refs.: Habe & Satō, 1973; Kosuge & Chiba, 1980-92)

Subfamily **BERINGIINAE GOLIKOV &**

**STAROBOGATOV, 1975**

□ Genus ***Beringius* DALL, 1887**

Type species: *Chrysodomus crebricostatus* DALL, 1877 (mt.; not 1879, ICZN op. 469)

G2494 ***B. crebricostatus crebricostatus* (DALL, 1877)**

Wadachi-naga-bai

- Type locality: Unalaska, Bering Sea.
- Distribution: Kuril islands and northwards, OP; Aleutian islands, Alaska.
- Habitat: 100-300 m., mud.
- Original genus: *Chrysodomus*.

G2495 ***B. crebricostatus undatus* DALL, 1919**

Futo-suji-une-naga-bai

- Type locality: Cygnet Islet, Boca de Guadra, Alaska; 160 fms.
- Distribution: Kuril islands and northwards, OP; Aleutian islands, Alaska.
- Habitat: 100-300 m., mud.

G2496 ***B. indentatus* DALL, 1919**

Ikarigata-naga-bai

- Type locality: off Khudubine islands, Bering Sea; 53 fms.
- Distribution: Kuril islands and northwards, OP; Aleutian islands, Bering Sea.
- Habitat: 100-300 m., mud.

□ Genus ***Beringion* HABE & ITŌ, 1965-b**

Type species: *Beringion marshalli* DALL *sensu* HABE & ITŌ, 1965 (o. d.; = *Beringius polynematicus* PILSBRY, 1907)

G2497 ***Beringion polynematicus* (PILSBRY, 1907)**

(= *B. marshalli sensu* HABE & ITŌ, 1965)

Naga-bai

- Type locality: off Kesen-numa, Rikuzen (Miyagi prefecture, northeastern Honshū).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and northwards, P8-P10, OP; Aleutian islands, Bering Sea, Alaska.
- Habitat: 300-400 m., mud.
- Original genus: *Beringius*.

G2498 ***Beringion kennicotti* (DALL, 1871)**

(= *Volutopsius?* (*sic*) *kennicotti incisus* DALL, 1907)

Hiro-naga-bai

- Type locality: Captain's Harbor, Unalaska, Bering Sea.
- Distribution: Hokkaidō (off Otaru; off Monbetsu) and northwards, P10-OP, J5-J6; Okhotsk Sea, Aleutian islands, Bering Sea, Alaska.
- Habitat: 100-200 m., mud.
- Original genus: *Buccinum*

G2499 ***Beringion stimpsoni* (GOULD, 1860 in 1859-61)**

(= *Strombella malleata* DALL, 1885)

Suchinpuson-naga-bai

- Type locality: off Arikamchechen island, Bering Strait; dredged.
- Distribution: Hokkaidō and northwards, P10, OP, Kuril islands; Bering Sea.
- Habitat: 100-200 m., mud.
- Original genus: *Buccinum*.

G2500 ***Beringion beringii* (MIDDENDORFF, 1849 in 1847-49)**

Une-naga-bai

- Type locality: 'Das Behrings-Eismeer' (Bering Sea).
- Distribution: northern Hokkaidō and northwards, Kuril islands, Okhotsk Sea; Bering Sea.
- Habitat: 100-200 m., mud.
- Original genus: *Tritonium (Fusus)*.

□ Genus ***Neoberingius* HABE & ITŌ, 1965-b**

Type species: *Beringius frielei* DALL, 1895 (o. d.)

G2501 ***N. frielei frielei* (DALL, 1895-a)**

Hime-naga-bai

- Type locality: USFC sta. 3497, near Pribiloff islands, Bering Sea; 86 fms.
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, P9-P10, OP, Kuril islands; Bering Sea.
- Habitat: 50-200 m., mud.
- Original genus: *Beringius*.

G2502 *N. frielei miyauchii* (HABE & ITŌ, 1972-b)

Miyauchi-hime-naga-bai

- Type locality: off Naka-Shiretoko (cape Aniwa, southeastern Aniwa bay, southern Sakhalin); ± 130 m.
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, Hokkaidō, P9-P10, OP, Kuril islands, Bering Sea.
- Habitat: 50-200 m., mud.
- Original genus: *Beringius* (*Neoberingius*).

G2503 *N. aleuticus* (DALL, 1895-a)

Tsuya-hime-naga-bai

- Type locality: USFC sta. 3481, near Amukhta Pass, Aleutian islands; 248 fms.
- Distribution: Hokkaidō and northwards, P10, OP; Aleutian islands.
- Habitat: 100-500 m., mud.
- Original genus: *Beringius*.

□ Genus *Japelion* DALL, 1916-a

Type species: *Buccinum hirasei* PILSBRY, 1901 (o. d.)

Subgenus *Japelion s. str.*

G2504 *J. (J.) hirasei* (PILSBRY, 1901-b)

Neji-nuki-bai

- Type locality: off Kesen-numa (Miyagi prefecture, northeastern Honshū).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and northwards, P8-P10, Hokkaidō (Pacific coast), Kuril islands; Okhotsk Sea, Bering Sea.
- Habitat: 200-400 m., mud.
- Original genus: *Buccinum*.

Subgenus *Metajapelion* CHIBA & KOSUGE, 1980

Type species: *Japelion perichochlion* SCHRENCK, 1862 (s. d. GORYACHEV, 1987)

G2505 *J. (M.) perichochlion* (SCHRENCK, 1862)

(= *Chrysodomus perichochlion parallelus* DALL, 1907)

Neji-bora (= Hiro-neji-bora)

- Type locality: Hakodate (Hokkaidō).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and northwards, P8-P10, eastern Hokkaidō (off Ishikari), J5.
- Habitat: 100-400 m., mud.
- Original genus: *Tritonium* (*Buccinum*).

G2506 *J. (M.) adelpicus* (DALL, 1907-c)

Tsumugata-neji-bora (= Hiro-tsumugata-neji-bora)

- Type locality: Yokohama, central Honshū.
- Distribution: off Bōsō peninsula and southwards, Sagami bay, Suruga bay, Enshū-nada, Mie prefecture (off Owase), Kii peninsula, Tosa bay, southwestern Kyūshū, East China Sea.
- Habitat: 50-200 m., fine sand.
- Original genus: *Chrysodomus*.

G2507 *J. (M.) latus* (DALL, 1918-a)

Suehiro-bai (= Suehiro-neji-bora)

- Type locality: near Quelpart (Cheju) island, southwestern Korea.
- Distribution: southwestern Japan Sea and southwards, Korea strait, Tsushima strait, East China Sea; Yellow Sea.
- Habitat: 50-200 m., sandy mud.
- Original genus: *Ancistrolepis*.

Subgenus *Hypoapelion* OKUTANI, 1968

Type species: *Clinopegma hachijoensis* OKUTANI, 1964 (o. d.)

G2508 *J. (H.) hachijoensis* (OKUTANI, 1964-b)

Sōyō-neji-bai

- Type locality: 'Sōyō-Marū' sta. B3, 6 miles off Hachijō island, Izu islands: 33° 05.4' N., 139° 58.4' E., 430 m.
- Distribution: off Hachijō island (440 m. OKUTANI, 1968; type locality).
- Habitat: 400-500 m., sandy mud.
- Original genus: *Clinopegma*.

Subfamily VOLUTOPSINIINAE HABE & SATŌ, 1973

□ Genus *Volutopsius* MÖRCH, 1857

Type species: *Fusus largillierti* PETIT, 1851

(= *Strombella* GRAY, 1857 non SCHLÜTER, 1838; *Voltopsis sensu* DALL, 1873 err.; *Voltopsis* HABE & ITŌ, 1965)

G2509 *V. middendorffii middendorffii* (DALL, 1891)

Kamio-bora

- Type locality: 'Albatross' stas. 3216 & 3253, off Unimak pass, Alaska; 61 fms.
- Distribution: Kashima-nada and northwards, Iwate prefecture, Japan Sea (Toyama bay), Hokkaidō; Okhotsk Sea, Bering Sea, Korea (Samcheh'ok).
- Habitat: 22-450 m., mud.
- Original genus: *Strombella*.

G2510 *V. middendorffii pallidus* CHIBA, 1973-a

(= *Voltopsis middendorffii sensu* KIRA, 1962 non DALL, 1891)

Miyuki-kamio-bora

- Type locality: off Kuji, northern Iwate prefecture, northeastern Honshū; 400 m., sandy mud.
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, off southern Hokkaidō.
- Habitat: 400 m., mud.

G2511 *V. schantaricus* (MIDDENDORFF, 1849 in 1847-49)

- Type locality: Shantar island, Okhotsk Sea (Amur region, Russia).
- Distribution: Hokkaidō; Sakhalin, Okhotsk Sea.
- Habitat: 50-100 m., mud.
- Original genus: *Tritonium* (*Fusus*).

G2512 *V. behringii behringii* (MIDDENDORFF, 1848) (= *V. beringii* (*sic*) *kobelti* DALL, 1902)

Bēringu-kamio-bora

- Type locality: 'Mare glaciale Behringii' (Bering Sea).
- Distribution: northern Japan Sea, northern Hokkaidō, Kuril islands; Bering Sea, Okhotsk Sea.
- Habitat: 80-250 m., mud.
- Original genus: *Tritonium* (*Fusus*).

G2513 *V. behringii regularis* DALL, 1873

Seitaka-kamio-bora

- Type locality: Unalaska to Shumagin islands, Alaska.
- Distribution: Kuril islands and northwards; Alaska.

G2514 *V. castaneus* (MÖRCH, 1858)

(= *V. stefanssonii* DALL, 1919)

Cha-iro-kamio-bora

- Type locality: Sitka island, Alaska.
- Distribution: Hokkaidō (Nemuro) and northwards, OP; Bering Sea, Okhotsk Sea.
- Habitat: 80-300 m., mud.
- Original genus: *Neptunea*.

G2515 *V. simplex* DALL, 1907-c

Kuri-iro-kamio-bora

- Type locality: 'Albatross' sta. 4792, off Bering island; 72 fms.
- Distribution: northeastern Honshū (off Kuji and Yagi, Iwate prefecture) and northwards, Hokkaidō, P9-P10, OP, Kuril islands; western Okhotsk Sea.
- Habitat: 100-150 m., mud.

G2516 *V. trophonius* DALL, 1902-b

Hire-kamio-bora

- Type locality: 'Albatross' sta. 3602, south off Pribiloff island, Bering Sea; 81 fms.
- Distribution: western Kamchatka peninsula, southern Bering Sea.
- Habitat: 100-200 m., mud.

G2517 *V. fragilis* (DALL, 1891)

(= *Volutopsis middendorffii* (*sic*) *sensu* HABE & ITŌ, 1965 (*pars*))

Kobushi-kamio-bora

- Type locality: 'Albatross' sta. 3252, off Unimak island, Bering Sea; 36 fms.
- Distribution: Kuril islands and northwards; Bering Sea, off Kamchatka peninsula.

- Habitat: 50-100 m., mud.
- Original genus: *Strombella*.

□ Genus *Lussivolutopsius* KANTOR, 1983-b

Type species: *Lussivolutopsius hydractiniferus* KANTOR, 1983 (o. d.)

G2518 *L. emphaticus* (DALL, 1907-c)

Itomaki-kamio-bora

- Type locality: USFC sta. 4813, Sea of Japan; 200 fms.
- Distribution: northeastern Honshū (off Kuji, Iwate prefecture), P9-P10, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J5), Kuril islands, Okhotsk Sea; Primoriye region (Japan Sea coast of Russia ARZAMASTSEV, 1997)
- Habitat: 80-450 m., mud.
- Original genus: *Volutopsius* (as ssp. of *V. middendorffii*).

G2519 *L. furukawai* (ŌYAMA, 1951)

(= *Volutopsius hirasei sensu* DALL, 1925 *non* PILSBRY, 1907; *V. dalli* KURODA & HABE, 1952-a; *V.*

*middendorffii* (*sic*) *emphaticus sensu* HABE & ITŌ, 1965 *non* DALL, 1907; *V. middendorffii emphaticus sensu* KOSUGE, 1972 *non* DALL, 1907)

Kijibiki-kamio-bora

- Type locality: off Cape Clonard (Changgi point, Yōngil bay, southeastern Korea), Japan Sea.
- Distribution: Japan Sea (Wakasa bay and northwards, J2-J5); eastern Korea.
- Habitat: 200-350 m., sandy mud.
- Original genus: *Volutopsius*.

□ Genus *Habevolutopsius* KANTOR, 1983-a

Type species: *Volutopsius hirasei* PILSBRY, 1907 (o. d.)

G2520 *H. hirasei* (PILSBRY, 1907)

(= *Volutopsius limatus* DALL, 1907; *V. diminutus* DALL, 1919)

Rikuzen-bora

- Type locality: 'Kisennuma, Rikuzen' (Kesen-numa, Miyagi prefecture, northeastern Honshū).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and northwards, P8-P10, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967)
- Habitat: 80-300 m., mud.
- Original genus: *Volutopsius*.

G2521 *H. attenuatus* (DALL, 1874)

Yasagata-rikuzen-bora

- Type locality: Cape Espenberg, Alaska.
- Distribution: Hokkaidō and northwards, Kuril islands, P10, OP, northern Japan Sea (J5-J6); Sakhalin, Kamchatka peninsula, Bering Sea.
- Habitat: 100-300 m., mud.
- Original genus: *Volutopsius*.

G2522 *H. verkruzeni* (KOBELT, 1876-a)

Ō-tsumu-bai (= Midori-tsumu-bai)

- Type locality: Arctic Ocean.
- Distribution: Hokkaidō (off Monbetsu); Primoriye region (Japan Sea coast of Russia ARZAMASTSEV, 1997) Bering Sea, Arctic Ocean.
- Original genus: *Volutopsis*.

□ Genus *Turrivolutopsius* CHIBA & KOSUGE, 1979

Type species: *Strombella stejnegeri* DALL, 1884 (mt.)

**Notes:** KANTOR (1990) excludes *T. stejnegeri* from the Volutopsiinae; as its subfamilial position is still uncertain, it is retained here provisionally.

G2523 *T. stejnegeri* (DALL, 1884)

Togari-kamio-bora

- Type locality: Bering island, Alaska.
- Distribution: Kuril islands and northwards; Okhotsk Sea, Bering Sea.
- Habitat: 100-300 m., mud.
- Original genus: *Strombella* (as ssp. of *S. callorhina*).

□ Genus *Pyrolofusus* MÖRCH, 1869

Type species: *Fusus deformis* REEVE, 1847

(= *Pyrolofusus auct.*; *Heliotropis* DALL, 1879)

G2524 *P. deformis deformis* (REEVE, 1847 in 1843-65)

Nashi-bora

- Type locality: 'Spitzbergen' (island, Arctic Ocean).
- Distribution: Hokkaidō and northwards to Bering Sea, Arctic Ocean.
- Original genus: *Fusus*.

G2525 *P. deformis harpa* (MÖRCH, 1858)

(= *Volutopsis deformis sensu* Is. TAKI, 1957; *P. deformis sensu* MACGINITIE, 1959)

Tategoto-nashi-bora

- Type locality: Sitka, Alaska.
- Distribution: Kuril islands and northwards, Okhotsk Sea, Aleutian islands, Bering Sea, Alaska.
- Habitat: 80-150 m., mud.
- Original genus: *Neptunea*.

G2526 *P. dexius dexius* (DALL, 1907-c)

Kita-no-migimaki-tategoto-nashi-bora

- Type locality: USFC sta. 4779, Petrel Bank, Bering Sea; 54 fms
- Distribution: northeastern Honshū (off Kuji, Iwate prefecture) and northwards, Hokkaidō (off Cape Erimo; off Kushiro), Kuril islands; Okhotsk Sea, Kamchatka peninsula, Bering Sea.
- Habitat: 100-200 m., mud.
- Original genus: '*Volutopsius* (*Pyrolofusus*)' (as ssp. of *V. harpa*).

G2527 *P. dexius japonicus* HABE, ITŌ & TANJI, 1980

(= *P. fusus dexius* DALL *sensu* HABE & ITŌ, 1965)

Migimaki-tategoto-nashi-bora

- Type locality: off Kushiro, Hokkaidō; ± 150 m.
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, southeastern Hokkaidō, P9-P10, OP, Kuril islands; Kamchatka peninsula.
- Habitat: 50-150 m., sandy mud.

□ Genus *Harpofusus* HABE & ITŌ, 1965-b

Type species: *Strombella melonis* DALL, 1891 (o. d.)

G2528 *H. melonis* (DALL, 1891)

Meron-bora

- Type locality: 'Albatross' sta. 3227, north of Unalaska island, Bering Sea; 225 fms.
- Distribution: Kuril islands and northwards; Kamchatka peninsula, Bering Sea.
- Habitat: 50-150 m., sandy mud.
- Original genus: *Strombella*.

Subfamily PARANCISTROLEPISINAE HABE, 1972-b

□ Genus *Parancistrolepis* AZUMA, 1965

Type species: *Japelion kinoshitai* KURODA, 1931

G2529 *P. kinoshitai* (KURODA, 1931-a)

Kinoshita-bai

- Type locality: 'Kii' (Kii peninsula, central Honshū).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and westwards (Sagami bay, 700 m. OKUTANI, 1964-b), Enshū-nada, off Kii peninsula, Tosa bay.
- Habitat: 200-400 m., sandy mud.
- Original genus: '*Japelion*'?

G2530 *P. fujitai* (KURODA, 1931-a)

(= *Ancistrolepis hiranoi* SHIKAMA, 1962-a)

Fujita-bai

- Type locality: off Kinkazan island (Miyagi prefecture, northeastern Honshū).
- Distribution: central Honshū (Enshū-nada; Sagami bay OKUTANI, 1964-b; 1968) and northwards, Kashima-nada (OKUTANI, 1957-b), northeastern Honshū to southern Hokkaidō.
- Habitat: 100-300 m., sandy mud.
- Original genus: *Ancistrolepis*.

Subfamily ANCISTROLEPISINAE HABE & SATŌ, 1973

□ Genus *Ancistrolepis* DALL, 1895-a

Type species: *Chrysodomus eucosmius* DALL, 1891 (o. d.)

G2531 *A. grammatus grammatus* (DALL, 1907-c)

Wadachi-bai (= Makiage-bai)

- Type locality: USFC sta. 5032, Tsugaru strait (between northern Honshū and Hokkaidō); 300 fms.
- Distribution: Hokkaidō (off Abashiri, off Rausu) and northwards, Kuril islands; Okhotsk Sea.

- Habitat: 150-300 m., mud.

- Original genus: *Chrysodomus* (*Ancistrolepis*).

G2532 *A. grammatus yamasakii* KURODA, 1944 in 1943-45

(= *yamazakii* auct.)

Yamasaki-bai

- Type locality: Morikawa, Simushir island, northern Kuril islands.
- Distribution: Kuril islands and northwards.
- Habitat: 150-300 m., mud.

G2533 *A. hikidai* KURODA, 1944 in 1943-45

(= *A. hikitai* auct.)

Hikida-bai

- Type locality: Morikawa, Simushir, northern Kuril islands.
- Distribution: Kuril islands and northwards, OP; southern Okhotsk Sea.
- Habitat: 100-500 m., mud.

G2534 *A. kawamurai* HABE & ITÔ, 1972-c

Kawamura-wadachi-bai

- Type locality: Yamato-tai (Yamato sea-mount), Okhotsk Sea off Abashiri, Hokkaidô; 500 m.
- Distribution: Hokkaidô (off Abashiri) and northwards, OP, J5; Sakhalin (Takikara bay).
- Habitat: 500-690 m., sandy mud.

□ Genus *Clinopegma* GRANT & GALE, 1931

Type species: *Buccinum unicum* PILSBRY, 1905

G2535 *C. unicum unicum* (PILSBRY, 1905)

Moro-ha-bai

- Type locality: 'Kisenuma, Rikuzen' (off Kesen-numa, Miyagi prefecture, northeastern Honshû).
- Distribution: off Chôshi (Chiba prefecture, central Honshû) and northwards, off Miyagi prefecture, southern Hokkaidô, P8-P10.
- Habitat: 50-200 m., sandy mud.
- Original genus: *Buccinum*.

G2536 *C. unicum damon* (DALL, 1907-c)

(= *Ancistrolepis polygramma* DALL, 1918)

Yagen-bai

- Type locality: USFC sta. 5038, 'south coast of Yesso' (Hokkaidô); 175 fms.
- Distribution: southern Hokkaidô (off Muroran; Cape Erimo; Abashiri).
- Habitat: 100-315 m., sandy mud.
- Original genus: *Chrysodomus* (*Ancistrolepis*).

G2537 *C. borealis* CHIBA, 1969-a

Kita-no-moro-ha-bai

- Type locality: off eastern Kamchatka peninsula; 200 m.
- Distribution: Kuril islands and northwards; Bering Sea,

off Kamchatka peninsula.

- Habitat: 100-300 m., sandy mud.

G2538 *C. chikaoi* CHIBA, 1968-a

Chikao-yagen-bai

- Type locality: eastern Okhotsk Sea off Kamchatka peninsula; 200 m.
- Distribution: entire Okhotsk Sea.
- Habitat: 100-300 m., sandy mud.

G2539 *C. decora* (DALL, 1925-a)

Koshitaka-moro-ha-bai (= Yasa-moro-ha-bai)

- Type locality: 'Albatross' sta. 4991, Japan Sea; 325 fms.
- Distribution: Japan Sea; Okhotsk Sea.
- Habitat: 200-650 m., sandy mud.
- Original genus: *Ancistrolepis*.

G2540 *C. magnum magnum* (DALL, 1895-a)

Ô-moro-ha-bai

- Type locality: USFC sta. 3254 (46 fms.), and sta. 3255 (43 fms.), north of Unimak island, Bering Sea.
- Distribution: Hokkaidô, Kuril islands, OP; Bering Sea.
- Habitat: 80-200 m., sandy mud.
- Original genus: *Chrysodomus* (*Ancistrolepis*).

G2541 *C. magnum buccinoides* HABE & ITÔ, 1965-b

Fukure-moro-ha-bai

- Type locality: Bering Sea.
- Distribution: Hokkaidô and northwards, Kuril islands, P10, OP; Okhotsk Sea, Bering Sea.
- Habitat: 50-300 m., sandy mud.

G2542 *C. magnum uritai* (KURODA, 1931-a)

(= *Ancistrolepis magnus* DALL *sensu* URITA, 1929)

Hito-ha-bai

- Type locality: 'Aniwa Bay, near Ôdomari, Karafto' (near Korsakov, Aniwa bay, Sakhalin).
- Distribution: Hokkaidô (off Abashiri, off Nemuro), P10, OP; Sakhalin.
- Habitat: 50-300 m., sandy mud.
- Original genus: *Ancistrolepis*.

G2543 *C. hirsutum* CHIBA, 1971-a

Kehada-yagen-bai

- Type locality: eastern Okhotsk Sea off Kamchatka peninsula; 400 m.
- Distribution: eastern Okhotsk Sea, Sakhalin.
- Habitat: 300-500 m., sandy mud.

G2544 *C. okhotensis* (DALL, 1925-a)

Ohôtsuku-yagen-bai (= Ohôtsuku-bai)

- Type locality: 'Albatross' sta. 5022, off Sakhalin; 109 fms.
- Distribution: Hokkaidô (off Iwanai), P10, OP, Japan Sea (Sado island and northwards, J3-J5), Sakhalin, Okhotsk Sea.
- Habitat: 100-250 m., sandy mud.



- Original genus: *Ancistrolepis*.

G2545 *C. sasaki* **HABE & ITÔ, 1970-a**

(= *Ancistrolepis magnus* DALL *sensu* KINOSHITA, 1937; *A. (Clinopegma) magnus* DALL *sensu* KOTAKA, 1962; *C. magnus* DALL *sensu* HABE & ITÔ, 1965)

Sasaki-moroha-bai

- Type locality: northern Japan Sea off Iwanai, Hokkaidô.
- Distribution: northeastern Honshû (off Kuji, Iwate prefecture) and northwards, Japan Sea off southwestern Hokkaidô.
- Habitat: 200-300 m., sandy mud.

□ Genus *Neancistrolepis* **HABE & SATÔ, 1973**

Type species: *Ancistrolepis beringianus* DALL, 1919 (o. d.)

G2546 *N. beringiana dalliana* **HABE & ITÔ, 1973**

Daru-yagen-bai

- Type locality: Aniwa bay, Sakhalin: 46° 22' N., 142° 44' E., 56 m. on sandy mud.
- Distribution: recorded only from type locality.

G2547 *N. glabra* **HABE & ITÔ, 1973**

Suhada-yagen-bai

- Type locality: Yamato sea-mount off Abashiri, Hokkaidô; ± 500 m.
- Distribution: recorded only from type locality.

G2548 *N. aequispaceum* **(CHIBA, 1981-c)**

Tosuji-yagen-bai

- Type locality: off Cape Erimo, Hokkaidô; ± 250 m.
- Distribution: Hokkaidô (off Cape Erimo; off Iwanai; Shizunai; Hiroo; Wakkanai).
- Habitat: 200-300 m., sandy mud.
- Original genus: *Clinopegma*.

G2549 *N. checknum* **(CHIBA, 1981-c)**

Nunome-yagen-bai

- Type locality: Naka-Shiretoko (cape Aniwa, southeastern Aniwa bay), Sakhalin.
- Distribution: off Sakhalin, southern Okhotsk Sea.
- Original genus: *Clinopegma*.

□ Genus *Bathyancistrolepis* **HABE & ITÔ, 1968-a**

Type species: *Chrysodomus trochoideus* DALL, 1907 (o. d.)

G2550 *B. trochoideus trochoideus* **(DALL, 1907-c)**

Watazoko-chijiwa-bai

- Type locality: USFC stas. 4972 & 4973, off Yokohama, central Honshû; 600 fms.
- Distribution: southwestern Shikoku (Hyûga hollow 1100-1141 m. TSUCHIDA, 1993), Kii peninsula (TSUCHIDA, 1985-b), Sagami bay (550-1500 m. OKUTANI, 1964-b; 1966; 1968) and northwards (Kashima-nada OKUTANI, 1957-b), northeastern Honshû (Iwate prefecture).

- Habitat: 100-1500 m., mud.

- Original genus: *Chrysodomus*.

G2551 *B. trochoideus ovoideus* **(HABE & ITÔ, 1965-b)**

Chijiwa-bai (= Itoko-chijiwa-bai)

- Type locality: off Chôshi (Chiba prefecture, central Honshû), 200 m.
- Distribution: off Amami Ôshima and northwards, off Tanegashima & Yakushima, Hyûga-nada, Tosa bay, Enshû-nada (550-2050 m.); off Fukushima prefecture and northwards, off northeastern Honshû (Iwate prefecture) (40-90 m.)
- Original genus: *Ancistrolepis*.

□ Genus *Pseudoliomesus* **HABE & SATÔ, 1973**

Type species: *Tritonium (Buccinum) ooides* MIDDENDORFF, 1848 (o. d.)

G2552 *P. ooides ooides* **(MIDDENDORFF, 1848)**

(= *Liomesus nux sensu* KURODA & KINOSHITA, 1951) Tamago-bai

- Type locality: Tugur bay, Okhotsk Sea (Kharbarovsk region, Russia).
- Distribution: northeastern Honshû (Iwate prefecture) and northwards, Hokkaidô, P9-P10, Kuril islands; Sakhalin, Okhotsk Sea, Bering Sea.
- Habitat: 200-400 m., sandy mud.
- Original genus: *Tritonium (Buccinum)*.

G2553 *P. ooides canaliculatus* **(DALL, 1874)**

Iwade-itomaki-bai

- Type locality: Cape Espenberg, Alaska.
- Distribution: northeastern Honshû (off Rikuzen-Takada, Iwate prefecture) and northwards, Hokkaidô; Bering Sea, Alaska.
- Habitat: 100-300 m., mud.
- Original genus: *Buccinopsis*.

G2554 *P. ooides bistratus* **(DALL, 1907-c)**

• Type locality: USFC sta. 4809, off Hakodate, Hokkaidô; 207 fms.

- Distribution: recorded only from type locality.
- Original genus: *Liomesus*.

Subfamily **NEPTUNEINAE STIMPSON, 1865-b**

□ Genus *Mohnia* **FRIELE in KOBELT, 1877**

Type species: *Fusus mohnia* FRIELE, 1877

G2555 *M. yanamii* **(YOKOYAMA, 1926)**

Yanami-shiwa-bai

- Type locality: Yanami, Akumi district, Yamagata prefecture, northern Honshû (fossil).
- Distribution: Japan Sea (Oga peninsula and southwards, off Niigata prefecture, Sado island, Toyama bay, Wakasa bay).
- Habitat: 50-400 m., mud.

- Original genus: *Tachyrhynchus*.

G2556 *M. multicosata* **HABE & ITÔ, 1965-b**

Shiwa-midori-hoso-bai

- Type locality: off Chōshi (Chiba prefecture, central Honshū), 100 m.
- Distribution: Kashima-nada (off Ibaraki prefecture) and northwards, P8-P10, OP, Kuril islands, Japan Sea (off Tajima, Hyōgo prefecture K. ITÔ, 1967; J2-J3).
- Habitat: 100-350 m., mud.

G2557 *M. iwateana* **CHIBA, 1981-a**

Iwate-hoso-bai

- Type locality: off Kuji, Iwate prefecture, northeastern Honshū; 200-250 m.
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, P9-P10, Hokkaidō.
- Habitat: 200-300 m., mud.

G2558 *M. toyamana* **CHIBA, 1981-a**

Toyama-hoso-bai (= Takayanagi-hoso-bai)

- Type locality: Toyama bay (eastern Noto peninsula, Japan Sea), 400 m.
- Distribution: recorded only from type locality.

G2559 *M. sordida* **DALL, 1907-c**

Tōgata-hoso-bai

- Type locality: USFC sta. 5032, Tsugaru Strait (between northern Honshū and Hokkaidō); 300 fms.
- Distribution: recorded only from type locality.

G2560 *M. buccinoides* **DALL, 1913**

Hotei-hoso-bai

- Type locality: 'off Hondo, Japan' (central Honshū); 905 fms.
- Distribution: recorded only from type locality.

G2561 *M. daphnelloides* **OKUTANI, 1964-b**

• Type locality: 'Sōyō-Maru' sta. 17, Kashima-nada, off Ibaraki prefecture, central Honshū: 36° 19.7' N., 141° 09.0' E., 870 m.

- Distribution: off Chōshi (Chiba prefecture, central Honshū) and northwards, P8-P9.
- Habitat: 500-1000 m., mud.

G2562 *M. attenuata* **GOLIKOV & GULBIN, 1977**

• Type locality: Ekaterina strait, between Kunashir and Iturup islands, Kuril islands; 250 m., mud, sand and pebbles (R. V. 'Toporok').

- Distribution: Kuril islands.

G2563 *M. similis* **GOLIKOV & GULBIN, 1977**

• Type locality: off Paramushir, Kuril islands; 300 m., mud and sand (R. V. 'Lebed').

- Distribution: Kuril islands.

□ Genus *Retimohnia* **MCLEAN, 1995-a**

Type species: *Mohnia frielei* DALL, 1891 (o. d.)

G2564 *R. frielei* **(DALL, 1891)**

Shirimagari-shiwa-bai (= Shirimagari-bai)

- Type locality: 'Albatross' sta. 2860, off British Columbia (Canada); 876 fms.
- Distribution: Kashima-nada (off Ibaraki prefecture, 870 m. OKUTANI, 1964-b), Hokkaidō and northwards, P10, OP, Kuril islands; Okhotsk Sea, Bering Sea.
- Habitat: 1000-1600 m., mud.
- Original genus: *Mohnia*.

G2565 *R. vernalis* **(DALL, 1913-b)**

Midori-hoso-bai

- Type locality: off Tillamook bay, Oregon, USA.
- Distribution: Hokkaidō (off cape Esan) and northwards, Japan Sea (northern Noto peninsula; off Sado island; off Niigata prefecture); northwestern USA, Canada.
- Habitat: 200-1700 m., mud.
- Original genus: *Mohnia*.

G2566 *R. clarki* **(DALL, 1907-c)**

Kurāku-hoso-bai

- Type locality: USFC sta. 4797, Okhotsk Sea (682 fms.), and sta. 4815, off Hakodate, Hokkaidō.
- Distribution: Hokkaidō (off Hakodate), P10, Japan Sea (off Niigata prefecture and northwards, J3-J5), OP, Kuril islands; Okhotsk Sea.
- Habitat: 150-1300 m., mud.
- Original genus: *Mohnia*.

G2567 *R. micra* **(DALL, 1907-c)**

Mijin-hoso-bai

- Type locality: USFC sta. 4813, off Sado island (Japan Sea); 200 fms.
- Distribution: Japan Sea (off Sado island; off Yamagata prefecture).
- Habitat: 300-400 m., mud.
- Original genus: *Mohnia*.

G2568 *R. hondoensis* **(DALL, 1913-b)**

Hoso-bai (= Hondo-hoso-bai)

- Type locality: 'off Hondo Japan' (central Honshū); 76 fms.
- Distribution: northeastern Honshū (off Kesen-numa, Miyagi prefecture) and northwards, P9-P10, Kuril islands, OP; Okhotsk Sea, Bering Sea.
- Habitat: 150-500 m., mud.
- Original genus: *Mohnia*.

G2569 *R. robusta* **(DALL, 1913-b)**

Kesen-hoso-bai

- Type locality: off Pribiloff islands, Bering Sea; 987-1401 fms.
- Distribution: northeastern Honshū (Miyagi prefecture) and northwards, P9-P10; Bering Sea.
- Habitat: 1000-3000 m., mud.
- Original genus: *Mohnia*.

G2570 *R. japonica* (DALL, 1913-b)

Shikishima-hoso-bai (= Yamato-hoso-bai)

- Type locality: USFC sta. 4818, off Sado island (Japan Sea); 225 fms.
- Distribution: Japan Sea (Sado island; Toyama bay).
- Habitat: 300-400 m., mud.
- Original genus: *Mohnia*.

□ Genus *Eosipho* THIELE, 1929

Type species: *Chrysodomus (Sipho) smithi* SCHEPMAN, 1911 (o. d.)

G2571 *E. pygmaeus* SHIKAMA & HAYASHI in SHIKAMA, 1977

Hina-tsumu-bai

- Type locality: Enshū-nada off Cape Daiō, Mie prefecture (central Honshū); 400 m.
- Distribution: recorded only from type locality.

G2572 *E. tosaensis* OKUTANI & IWAHORI, 1992

Koromo-tsumu-bai

- Type locality: Tosa bay (southern Shikoku), 780 m.
- Distribution: recorded only from type locality.

□ Genus *Colus* RÖDING, 1798

Type species: *Murex islandicus* GMELIN, 1791 (= *Sipho* BRUGUIÈRE, 1792 in 1789-1816; *Tritonofusus* BECK, 1847)

Subgenus *Colus s. str.*

G2573 *C. (C.) esychus esychus* (DALL, 1907)

Arasuka-tsumu-bai

- Type locality: USFC stas. 4791 & 4792, off Bering island, Aleutian islands.
- Distribution: Hokkaidō (off Nemuro) and northwards, Etorofu island, Okhotsk Sea; Bering Sea.
- Habitat: 50-200 m., mud.
- Original genus: *Tritonofusus*.

G2574 *C. (C.) esychus shikotanicus* GOLIKOV & GULBIN, 1977

Shikotan-tsumu-bai

- Type locality: Pacific coast of Shikotan, southern Kuril islands; 180 m., mud, sand and pebbles (R. V. 'Toporok').
- Distribution: recorded only from type locality.

G2575 *C. (C.) esychus kujiana* CHIBA, 1973-b

(= *C. (Aulacofusus) esychus sensu* TOBA, 1929; KIRA, 1962; *Helicofusus minor sensu* HABE & ITÔ, 1965)

Tsumu-bai

- Type locality: off Kuji, Iwate prefecture, northeastern Honshū; ± 400 m., sandy mud.
- Distribution: northeastern Honshū and northwards, P9-P10, OP, Japan Sea (off Tajima, Hyōgo prefecture K. ITÔ, 1967; J2-J3).
- Habitat: 50-300 m., mud or coarse sand and stones.

G2576 *C. (C.) nobilis* DALL, 1919

Yūbi-tsumu-bai

- Type locality: USFC sta. 3484, near Pribiloff islands, Bering Sea.
- Distribution: Kuril islands and northwards; Okhotsk Sea, Bering Sea.
- Habitat: 50-100 m., mud.

G2577 *C. (C.) okhotskana* CHIBA, 1973-b

Ohōtsuku-tsumu-bai

- Type locality: Okhotsk Sea.
- Distribution: Hokkaidō and northwards; Okhotsk Sea.

G2578 *C. (C.) schantarica kurilensis* (GOLIKOV & GULBIN, 1977)

Chishima-tsumu-bai

- Type locality: off Paramushir, Kuril islands; 130-145 m., sand and pebbles (R. V. 'Lebed').
- Distribution: recorded only from type locality.
- Original genus: *Aulacofusus*.

Subgenus *Aulacofusus* DALL, 1918

Type species: *Fusus spitzbergensis* REEVE, 1855 (o. d.)

G2579 *C. (A.) spitzbergensis spitzbergensis* (REEVE, 1855 in 1843-65)

(= *Neptunea (Sipho) terebralis* GOULD, 1860)

Himomaki-tsumu-bai

- Type locality: 'Spitzbergen' (island, Arctic Ocean).
- Distribution: 'northern Japan' (MACGINITIE, 1959), Japan Sea (off Fukui prefecture, J2-J5), Kuril islands; Aleutian islands, Bering Sea, Arctic Ocean, northern Atlantic Ocean.
- Habitat: 150-1000 m., mud.
- Original genus: *Fusus*.

G2580 *C. (A.) spitzbergensis fortilirata* (SOWERBY III, 1913-a)

Ezo-itomaki-tsumu-bai

- Type locality: 'Urup, Kuril islands'.
- Distribution: Hokkaidō and northwards, OP; Okhotsk Sea, Bering Sea.
- Habitat: 100-500 m., mud.
- Original genus: *Cominella*.

G2581 *C. (A.) periscelidus* (DALL, 1891)

(= *Aulacofusus spitzbergensis sensu* HABE, 1964 non REEVE, 1855)

Usuba-himomaki-tsumu-bai (= Maki-mizo-tsumu-bai)

- Type locality: 'Albatross' sta. 2842, off Akutan island, Alaska; 72 fms.
- Distribution: Hokkaidō (off Kushiro; off Nemuro) and northwards, P10, OP, Kuril islands; Aleutian islands, Bering Sea.
- Habitat: 100-200 m., mud.
- Original genus: *Chrysodomus*.

G2582 *C. (A.) coeruleascens* (KURODA & HABA in HABA, 1961-a)

Itomaki-tsumu-bai

- Type locality: off Cape Ashizuri, southwestern Shikoku; 100-200 m.
- Distribution: Tosa bay (southern Shikoku), off Kii peninsula, Enshū-nada (off Shizuoka prefecture).
- Habitat: 100-200 m., mud.

G2583 *C. (A.) calamaeus* DALL, 1907

(= *A. calameus sensu* DALL, 1921 *err. pro -aeus; calmeus auct.*)

Fukure-maki-mizo-tsumu-bai (= Maki-mizo-tsumu-bai)

- Type locality: USFC sta. 4797, Okhotsk Sea; 682 fms.
- Distribution: Tosa bay (700-720 m.), northeastern Honshū and northwards, Kuril islands, Okhotsk Sea; Bering Sea.
- Habitat: 200-1300 m.
- Original genus: *Aulacofusus*.

G2584 *C. (A.) hiranoi* SHIKAMA, 1962-a

(= *C. calamaeus* DALL *sensu* HABA & ITŌ, 1965 *non* DALL, 1907)

Hirano-itomaki-tsumu-bai

- Type locality: off Chōshi (Chiba prefecture, central Honshū).
- Distribution: central Honshū (Kashima-nada; Sagami bay OKUTANI, 1964-b), northeastern Honshū (off Fukushima prefecture; off Miyagi prefecture).
- Habitat: 200-1650 m., sandy mud.

**Notes:** originally ssp. of *C. calamaeus*.

G2585 *C. (A.) acosmius* (DALL, 1891)

Midori-itomaki-tsumu-bai

- Type locality: 'Albatross' sta. 3329, off Unalaska island, Bering Sea; 400 fms.
- Distribution: Kuril islands and northwards; Okhotsk Sea, Bering Sea.
- Habitat: 500-800 m.
- Original genus: *Chrysodomus* (*Sipho*).

G2586 *C. (A.) georgianus* (DALL, 1921-a)

Iguchi-tsumu-bai

- Type locality: Gulf of Georgia, British Columbia, 60-200 fms.
- Distribution: Hokkaidō, Kuril islands and northwards; Bering Sea, Aleutian islands, Canada.
- Habitat: 100-500 m., mud.
- Original genus: *Aulacofusus* (*Limatofusus*).

G2587 *C. (A.) hayashii* SHIKAMA, 1971-b

Hayashi-itomaki-tsumu-bai

- Type locality: 'from Ensyu-nada (about 100 f. deep)' (Enshū-nada, off Shizuoka prefecture, central Honshū).
- Distribution: recorded only from type locality.

Subgenus *Latisipho* DALL, 1916-a

Type species: *Chrysodomus hypolispus* DALL, 1891 (o. d.)

G2588 *C. (L.) hypolispus* (DALL, 1891)

Tsumugata-bai (= Arasuji-tsumu-bai)

- Type locality: 'Albatross' sta. 3254, Bering Sea off Alaska.
- Distribution: Kuril islands and northwards, Okhotsk Sea; Bering Sea, Aleutian islands, Alaska.
- Habitat: 100-1000 m., mud.

G2589 *C. (L.) hallii* (DALL, 1873-a)

Futo-tsumu-bai

- Type locality: Sanborn Harbour, Nagai (Alaska).
- Distribution: Hokkaidō and northwards, P10, OP; Okhotsk Sea, Bering Sea, Alaska to northern California.
- Habitat: 100-1200 m., mud.
- Original genus: *Sipho*.

G2590 *C. (L.) erroneus* DALL, 1919

Kuri-iro-kata-tsumu-bai

- Type locality: Bering Sea.
- Distribution: Kuril islands and northwards, Okhotsk Sea; Bering Sea.
- Habitat: 100-1000 m., mud.

G2591 *C. (L.) jordani* (DALL, 1913-a)

Sekitori-tsumu-bai

- Type locality: Puget sound, Washington, northwestern USA.
- Distribution: Hokkaidō, Kuril islands and northwards, Okhotsk Sea; Bering Sea, Alaska, northwestern USA.
- Original genus: *Tritonofusus*.

□ Genus *Plicifusus* DALL, 1902-c

Type species: *Fusus kroyeri* MÖLLER, 1842 (o. d.)

Subgenus *Plicifusus s. str.*

G2592 *P. (P.) kroyeri* (MÖLLER, 1842)

Ō-shiwa-bai

- Type locality: Greenland.
- Distribution: Japan Sea, 47-190 fms (DALL, 1907-c), Kuril islands; Sakhalin (URITA, 1922), Bering Sea, Arctic Ocean, Greenland.
- Original genus: *Fusus*.

G2593 *P. (P.) polypleuratus* (DALL, 1907-c)

Shiwa-bai

- Type locality: USFC sta. 4996, Sea of Japan; 86 fms.
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, Hokkaidō, Japan Sea, P10, OP; Sakhalin.
- Habitat: 100-400 m., mud.
- Original genus: *Tritonofusus* (*Plicifusus*).

G2594 *P. (P.) croceus* (DALL, 1907-c)

Safuran-shiwa-bai

- Type locality: USFC sta. 4982, Sea of Japan, 390 fms. and USFC sta. 5038. south coast of Yesso (Hokkaidō); 175

fms.

- Distribution: off Hokkaidō (off Kitami; off Iwanai; off Niicappu); Sakhalin.
- Habitat: 350-700 m., mud.
- Original genus: *Tritonofusus* (*Plicifusus*).

G2595 *P. (P.) aurantius* (DALL, 1907-c)

(= *P. (Latifusus) wakasanus* DALL, 1918-a)

Niku-iro-tsumu-bai (= Wakasa-tsumu-bai)

- Type locality: USFC sta. 4982, Sea of Japan; 390 fms.
- Distribution: Japan Sea (off Noto peninsula; off Wakasa bay; off Toyama; off Niigata prefecture; Sado island; off Yamagata prefecture), Hokkaidō (off Monbetsu).
- Habitat: 150-500 m., mud.
- Original genus: *Tritonofusus* (*Plicifusus*).

G2596 *P. (P.) hastarius* CHIBA, 1980-a

Yarinoho-shiwa-bai

- Type locality: off Kushiro, Hokkaidō; 80-100 m.
- Distribution: Hokkaidō (off Hiroo; off Abashiri; off Kushiro).
- Habitat: 50-100 m., mud.

G2597 *P. (P.) levis* CHIBA, 1980-a

Usude-shiwa-bai

- Type locality: 'off Rikuzen' (district, Miyagi prefecture, northeastern Honshū), 250-300 m.
- Distribution: northeastern Honshū (Iwate prefecture (off Kuji; off Yagi; off Ayari); off Miyagi prefecture).
- Habitat: 200-300 m., mud.

G2598 *P. (P.) scissuratus* DALL, 1918-a

Ō-ezo-shiwa-bai

- Type locality: 'Nemuro, Japan' (Nemuro, Hokkaidō).
- Distribution: Hokkaidō (Nemuro; Kushiro; Esashi), Kuril islands.
- Habitat: 200-400 m., mud.

G2599 *P. (P.) rhyssus* (DALL, 1907-c)

Nejike-shiwa-bai (= Kinoshita-shiwa-bai)

- Type locality: USFC stas. 5011 & 5013, Aniwa bay, Sakhalin; 43 fms.
- Distribution: Hokkaidō (off Erimo; off Monbetsu; Abashiri); Sakhalin.
- Habitat: 100-300 m., mud.
- Original genus: *Tritonofusus* (*Plicifusus*).

G2600 *P. (P.) elaeodes* (DALL, 1907-c)

Midori-shiwa-bai (= Midori-tsumu-bai)

- Type locality: USFC sta. 5011, Aniwa bay, Sakhalin; 42 fms.
- Distribution: Okhotsk Sea; Sakhalin, off Kamchatka peninsula.
- Original genus: *Tritonofusus* (*Plicifusus*).

G2601 *P. (P.) bambus* CHIBA, 1980-b

- Type locality: off Monbetsu, Hokkaidō.
- Distribution: recorded only from type locality.

G2602 *P. (P.) maehirai* CHIBA, 1980-b

Maehira-tsumu-bai

- Type locality: off Kushiro, Hokkaidō.
- Distribution: recorded only from type locality.

G2603 *P. (P.) arcticus* (PHILIPPI, 1850 in 1842-51)

• Type locality: 'Mare glaciale ad insulam Spitzbergen' (Spitzbergen island, Arctic Ocean).

- Distribution: 'Pacific side, 35°-43°' (KURODA & HABE, 1952-a); Arctic Ocean.
- Original genus: *Fusus*.

Subgenus *Retifusus* DALL, 1916-a

Type species: *Tritonium jessoensis* SCHRENCK, 1863 (o. d.)

G2604 *P. (R.) jessoensis* (SCHRENCK, 1863 in 1862-63)

(= *Fusus (Sipho?) manchuricus* E. A. SMITH, 1875)

Ezo-shiwa-bai

- Type locality: 'Jesso' (Hokkaidō).
- Distribution: Hokkaidō and northwards, P10, OP, Kuril islands; Bering Sea.
- Habitat: 50-100 m., mud.
- Original genus: *Tritonium* (*Fusus*).

G2605 *P. (R.) virens* (DALL, 1877-b)

Futo-shiwa-bai (= Futo-une-hoso-bai)

- Type locality: Kiska Harbour, Alaska.
- Distribution: northeastern Hokkaidō and northwards, OP; Okhotsk Sea, Bering Sea, Alaska.
- Original genus: *Chrysodomus*.

G2606 *P. (R.) brunneus* (DALL, 1877-b)

(= *P. olivaceus* BARTSCH, 1929)

Cha-iro-shiwa-bai

- Type locality: Cape Etolin, Nunivak island, Bering Sea; 10 fms.
- Distribution: Hokkaidō and northwards, P10, OP, Kuril islands; Bering Sea, Alaska.
- Habitat: 50-100 m., mud.
- Original genus: *Chrysodomus*.

G2607 *P. (R.) rhyssoides* DALL, 1918-a

Rikuzen-shiwa-bai

- Type locality: 'Rikuzen, Japan' (off Miyagi prefecture, northeastern Honshū).
- Distribution: Kashima-nada (off Ibaraki prefecture) and northwards, P8-P10, Japan Sea (J5-J6 f), Kuril islands, Okhotsk Sea; Sakhalin.
- Habitat: 100-300 m., mud.

G2608 *P. (R.) incisus* DALL, 1919-c

- Type locality: USFC sta. 3643, western Bering Sea; 100 fms.

- Distribution: Kuril islands and northwards, OP.
- Habitat: 100-200 m., mud.

G2609 *P. (R.) laticingulatus* (GOLIKOV & GULBIN, 1977)

- Type locality: off Shikotan, southern Kuril islands; 181 m. (R. V. 'Toporok').
- Distribution: recorded only from type locality.
- Original genus: *Retifusus*.

Subgenus *Helicofusus* DALL, 1916-a

Type species: *Tritonofusus (Plicifusus) laticordatus* DALL, 1907 (o. d.; = *Chrysodomus laticaudatus sensu* DALL, 1916 *err. pro -cordatus*)

G2610 *P. (H.) minor* (DALL, 1925-a)

Hida-tsumu-bai (= Hime-kamio-bora)

- Type locality: 'Albatross' sta. 5009, Aniwa bay, Sakhalin; 25 fms.
- Distribution: northern Japan Sea (J6), Kuril islands, OP; Sakhalin, Primoriye region (Japan Sea coast of Russia).
- Habitat: 50-200 m., mud.
- Original genus: *Volutopsis*.

□ Genus *Pararetifusus* KOSUGE, 1967-a

Type species: '*Phymorhynchus?*' *tenuis* OKUTANI, 1966 (o. d.)

G2611 *Pa. tenuis* (OKUTANI, 1966)

Itomaki-hoso-bai

- Type locality: 'Sōyō-Maru' sta. T21(2), Sagami bay, central Honshū: 34° 56.8' N., 139° 21.0' E., 1470-1500 m.
- Distribution: Sagami bay, Kashima-nada (off Ibaraki prefecture).
- Original genus: '*Phymorhynchus?*' (now in Conoidea: Raphitominae).

□ Genus *Manaria* E. A. SMITH, 1906

Type species: *Manaria thurstoni* E. A. SMITH, 1906

G2612 *M. lirata* KURODA & HABE in HABE, 1961-a

Itomaki-shiwa-bai

- Type locality: off Cape Ashizuri, southwestern Shikoku; 100-200 m.
- Distribution: Tosa bay, P5, EC5, East China Sea, P2; Philippines.
- Habitat: 100-930 m., sandy mud.

G2613 *M. kuroharai* AZUMA, 1960

Kurohara-itomaki-shiwa-bai

- Type locality: Tosa bay, southern Shikoku; 100 fms.
- Distribution: Izu islands (off Hachijō island, 455 m. OKUTANI, 1964-b); type locality.

G2614 *M. insularis* OKUTANI, 1968

(= *Manaria* sp. *sensu* OKUTANI, 1964-b)

Akane-itomaki-shiwa-bai

- Type locality: 'Sōyō-Maru' sta. B3, off Hachijō island, Izu

islands: 33° 08.3' N., 140° 01.8' E., 460 m.

- Distribution: off Hachijō island (480 m. OKUTANI, 1964-b; type locality).

□ Genus *Neptunea* RÖDING, 1798

Type species: *Murex antiquus* LINNAEUS, 1758 (s. d. MONTEROSATO, 1872)

(= *Chrysodomus* SWAINSON, 1840; *Atractus* AGASSIZ, 1840)

(Refs.: Kato, 1993)

Subgenus *Neptunea* s. *str.*

G2615 *N. (N.) polycostata polycostata* SCARLATO, 1952

(= *N. despecta (pars) sensu* HIRASE, 1907 *non* LINNAEUS, 1758; *N. lirata sensu* Iw. TAKI, 1933; S. HIRASE & Is. TAKI, 1954)

Ezo-bora

- Type locality: 'Tatarskiy graliv (Yiponskoe more)' (Tatar Strait, northern Japan Sea).
- Distribution: Bōsō peninsula and northwards, P8-P10, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J6); Korea, Sakhalin, Kuril islands, southern Primoriye region (Ussuriski bay to Sokolovski inlet ARZAMASTSEV, 1997).
- Habitat: 50-200 m., rubble.

**Notes:** originally ssp. of *N. satura*. For discussion of forms see FRAUSSEN (1996).

G2616 *N. (N.) polycostata lamellata* GOLIKOV, 1962

Kita-no-ezo-bora

- Type locality: none designated.
- Distribution: northeastern Hokkaidō and northwards, OP, Kuril islands; Okhotsk Sea, Bering Sea.
- Habitat: 50-200 m., rubble.

G2617 *N. (N.) intersculpta* (SOWERBY III, 1899)

(= *N. antiqua japonica* DAUTZENBERG & FISCHER, 1912; *Chrysodomus phoeniceus* YOKOYAMA, 1920; *C. kelseyi* BAKER, 1923; *N. yokoyamai sensu* ŌYAMA in Is. TAKI & ŌYAMA, 1954)

Ezo-bora-modoki

- Type locality: 'Tango, Japan' (Tango peninsula, Kyōto prefecture, central Honshū; Japan Sea).
- Distribution: Kashima-nada (off Ibaraki prefecture) and northwards, P8-P10, OP, Hokkaidō, Kuril islands, Bering Sea (50-1200 m., sandy mud); Japan Sea (off Mishima and northwards; Toyama bay; off Yamagata prefecture); Korea (150-750 m., sand).
- Original genus: *Chrysodomus*.

G2618 *N. (N.) frater* (PILSBRY, 1901-a)

Ko-ezo-bora-modoki

- Type locality: 'Kizennuma, Prov. Rikuzen' (Kesen-numa, Miyagi prefecture, northeastern Honshū).
- Distribution: off Chōshi (Chiba prefecture, central

Honshū) and northwards, P8-P10, northeastern Hokkaidō, J5; Korea.

- Habitat: 50-1000 m., sandy mud.
- Original genus: *Chrysodomus* (as ssp. of *C. intersculptus*).

G2619 *N. (N.) kuroshio* ŌYAMA in KIRA, 1959-a  
(= *Chrysodomus intersculptus minor* HIRASE, 1908-b non LINK, 1807; *N. kuroshio* ŌYAMA, 1958 nom. nud.)  
Hime-ezo-bora-modoki

- Type locality: Sagami bay, central Honshū.
- Distribution: Bōsō peninsula and westwards, Kii peninsula, Enshū-nada (OKUTANI, 1964-b), Tosa bay, southwestern Kyūshū, East China Sea.
- Habitat: 200-750 m., sandy mud.

G2620 *N. (N.) kotakamaruae* OKUTANI & IWAHORI, 1992

Kotaka-ezo-bora

- Type locality: Tosa bay, southern Shikoku, ± 700 m.
- Distribution: Tosa bay.
- Habitat: 675-750 m.

G2621 *N. (N.) constricta* (DALL, 1907-c)

Chijimi-ezo-bora (= Chijimi-ezo-bora-modoki)

- Type locality: USFC sta. 4863, Japan Sea off Korea; 260 fms.
- Distribution: Kashima-nada and northwards, P8-P10, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J5), southeastern Hokkaidō; Primoriye region (Japan Sea coast of Russia ARZAMASTSEV, 1997), Korea.
- Habitat: 200-600 m., sandy mud.
- Original genus: *Chrysodomus* (as ssp. of *C. inuslaris*).

G2622 *N. (N.) eulimata* (DALL, 1907-c)

(= *Chrysodomus vladivostokensis* BARTSCH, 1929)

Karafuto-ezo-bora

- Type locality: USFC sta. 5010, Aniwa bay, Sakhalin; 21 fms.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and northwards, Hokkaidō (off Cape Sōya), P8-P10, northern Japan Sea (J5-J6); off Sakhalin.
- Habitat: 200-500 m., sandy mud.
- Original genus: *Chrysodomus*.

G2623 *N. (N.) lamellosa* GOLIKOV, 1962

Kuri-iro-ezo-bora

- Type locality: none designated.
- Distribution: northeastern Honshū (off Ōfunato, Iwate prefecture), southeastern Hokkaidō, P9-P10, northern Hokkaidō and northwards, Kuril islands, Okhotsk Sea; Sakhalin, Kamchatka peninsula.
- Habitat: 300-500 m., sandy mud.

G2624 *N. (N.) amianta* (DALL, 1890)

(= *Chrysodomus pribiloffensis* DALL, 1919)

Maru-ezo-bora (= Arasuka-ezo-bora)

• Type locality: USFC sta. 2839, near Santa Barbara islands, off California, USA; 414 fms.

- Distribution: Hokkaidō, Okhotsk Sea to Alaska, northwestern USA.
- Habitat: 100-500 m., sandy mud.
- Original genus: *Chrysodomus*.

G2625 *N. (N.) laticostata* GOLIKOV, 1962

Kabura-ezo-bora

- Type locality: none designated.
- Distribution: Kuril islands; off Kamchatka peninsula.

G2626 *N. (N.) insularis insularis* (DALL, 1895-a)

(= *N. insularis convexa* GOLIKOV, 1963)

Yase-ezo-bora (= Zunguri-ezo-bora)

- Type locality: USFC sta. 3489, near Pribilof islands, Bering Sea; 184 fms.
- Distribution: southern Shikoku north to Bōsō peninsula (KATŌ, 1993), Okhotsk Sea, Kuril islands (Etorofu island); Sakhalin, Bering Sea.
- Habitat: 100-400 m., sandy mud.
- Original genus: *Chrysodomus*.

G2627 *N. (N.) insularis robusta* OKUTANI, 1964-b

- Type locality: 'Sōyō-Maru' sta. B3, 10.5 miles off Hachijō island (Izu islands): 33° 10.0' N., 140° 02.7' E., 470 m.
- Distribution: Izu islands (off Hachijō island, 470 & 480 m. OKUTANI, 1964-b).

G2628 *N. (N.) behringiana* (MIDDENDORFF, 1848)

(= *N. lyrata* var. *sensu* KOBELT, 1881; *Chrysodomus soluta cordatus* DALL, 1919; *C. nucetus* DALL, 1919)  
Kobushi-ezo-bora (= Maru-atsu-ezo-bora)

- Type locality: Shantar island, Tugur bay, Okhotsk Sea.
- Distribution: Kuril islands, Okhotsk Sea; Sakhalin, Bering Sea.
- Original genus: *Tritonium* (*Fusus*), as var. of *T. (F.) antiquum*.

G2629 *N. (N.) varicifera* (DALL, 1907-c)

(= *N. soluta* (HERMAN, 1781) *sensu* GOLIKOV, 1963)

Hire-ezo-bora

- Type locality: USFC sta. 5021, east coast of Sakhalin and Bering Sea.
- Distribution: Hokkaidō (off Cape Erimo), P10, OP, northern Japan Sea (J5-J6), Okhotsk Sea; Sakhalin, Bering Sea.
- Habitat: 50-200 m., sandy mud.
- Original genus: *Chrysodomus*.

G2630 *N. (N.) vinosa* (DALL, 1918-a)

(= *N. vinosa umbonata* GOLIKOV, 1963)

Fuji-iro-ezo-bora (= Fuji-iro-bora)

- Type locality: Avacha bay, Kamchatka peninsula (16 fms.) and western Bering Sea.
- Distribution: northeastern Honshū (Miyagi prefecture)

and northwards, P9-P10, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J6), Kuril islands; Sakhalin, Kamchatka peninsula, Bering Sea.

- Habitat: 30-100 m., sandy mud.
- Original genus: *Fusus*.

G2631 *N. (N.) heros* (GRAY, 1850)

(= *Tritonium antiquum elatior* MIDDENDORFF, 1851; *N. fornicata* KOBELT, 1881; *N. vinosa* DALL var. sensu KINOSHITA & ISAHAYA, 1934; *N. middendorffiana* sensu ŌYAMA & TAKEMURA, 1961 non MACGINITIE, 1959)

Atsu-ezo-bora (= Hishi-ezo-bora)

- Type locality: 'off Mackenzie River, Alaska', and 'Cape Parry, Arctic Sea'.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and northwards, P8-P10, Hokkaidō; Kamchatka peninsula, Bering Sea.
- Habitat: 100-200 m., sandy mud.
- Original genus: *Chrysodomus*.

G2632 *N. (N.) lyrata* (GMELIN, 1789)

(= *N. despecta (pars)* sensu HIRASE, 1907; *Cymatium (Linatella) pacificum* DALL, 1909; *lyrata* auct.)

Une-ezo-bora

- Type locality: none designated.
- Distribution: central Honshū (Pacific side) to eastern Hokkaidō (GOLIKOV, 1963); Primoriye region (Japan Sea coast of Russia ARZAMASTSEV, 1997), Korea (Hamkyongnam-dō), Sakhalin, off Kamchatka peninsula, Bering Sea, Alaska, northwestern USA.
- Original genus: *Buccinum*.

**Notes:** Obishime-ezo-bora was cited as *N. (N.) obralete* GOLIKOV, 1962, from eastern Hokkaidō and northwards; Okhotsk Sea and Bering Sea (S. KATŌ, 1993), but the present authors have been unable to confirm distribution of this species in Japan.

G2633 *N. (N.) bulbacea* (BERNARDI, 1858-c)

(= *Fusus arthriticum (pars)* sensu SCHRENCK, 1867; *N. despecta (pars)* sensu HIRASE, 1907; *N. soluta* sensu KIRA, 1954; *N. middendorffiana* MACGINITIE, 1959; *N. rugosa* GOLIKOV, 1963)

Daruma-ezo-bora

- Type locality: 'Manche de Tartarie' (Tatar strait, northern Japan Sea).
- Distribution: northeastern Honshū and northwards, P9-P10, Hokkaidō, Kuril islands, northern Japan Sea (J4-J5); southern Primoriye region (ARZAMASTSEV, 1997), Sakhalin.
- Habitat: 100-200 m., coarse sand and stones.
- Original genus: *Fusus*.

G2634 *N. (N.) communis communis* (MIDDENDORFF,

1851-a)

(= *Fusus borealis* PHILIPPI, 1851; *N. fornicata* sensu KOBELT, 1881; *N. despecta (pars)* sensu TRYON, 1881) Hokkyoku-ezo-bora

- Type locality: Arctic Ocean.
- Distribution: Kuril islands and northwards; Bering Sea, off Kamchatka peninsula.
- Original genus: *Tritonium (Fusus)*, as ssp. of *T. (F.) antiquum*.

G2635 *N. (N.) communis clarki* (MEEK, 1923)

Tsuno-ezo-bora

- Type locality: Peard bay, Arctic Alaska (fossil).
- Distribution: Kuril islands and northwards, off Kamchatka peninsula, Bering Sea, Alaska.
- Original genus: *Chrysodomus*.

G2636 *N. (N.) elegantula* ITŌ & HABE, 1965-a

Seitaka-ezo-bora

- Type locality: off Kasumi, Hyōgo prefecture (central Honshū, Japan Sea); 225-230 m.
- Distribution: recorded only from type locality.

G2637 *N. (N.) oncodi* (DALL, 1907-c)

Dō-naga-ezo-bora

- Type locality: USFC sta. 4804, off Kuril islands, Okhotsk Sea; 229 fms.
- Distribution: northeastern Hokkaidō and northwards, Kuril islands; Bering Sea.
- Habitat: 100-500 m., sandy mud.
- Original genus: *Chrysodomus*.

G2638 *N. (N.) purpureus* CHIBA, 1983-a

(= *N. lyrata* CHIBA, 1941 non GMELIN, 1789; *N. vinosa* sensu KURODA, 1942; HABE & ITŌ, 1965)

Usu-murasaki-ezo-bora

- Type locality: off Muroran, southeastern Hokkaidō; 250 m.
- Distribution: southeastern Hokkaidō and northwards; off Kamchatka peninsula.
- Habitat: 200-300 m., sandy mud.

G2639 *N. (N.) tuberculata* YOKOYAMA, 1929

Togari-ezo-bora

- Type locality: Sakhalin (fossil).
- Distribution: northeastern Honshū (Miyagi prefecture) and northwards, P9-P10; Okhotsk Sea (KATŌ, 1993).
- Habitat: 100-150 m.

G2640 *N. (N.) yokoyamai* ŌYAMA, 1954

(= *Chrysodomus phoenicus* DALL sensu YOKOYAMA, 1920)

Yokoyama-ezo-bora

- Type locality: Koshiha, Kanazawa-ku, Yokohama (fossil).
- Distribution: Sagami bay to Tosa bay (KATŌ, 1993).



G2641 *N. (N.) acutispiralis* OKUTANI, 1968

- Type locality: 'Ryofu-maru' sta. F22, southeast off Miyake island, Izu islands: 33° 47.0' N., 140° 33.0' E., 1280-1380 m.
- Distribution: Izu islands (off Miyake island, 1180 m. OKUTANI, 1968), Sagami bay, Bōsō peninsula.
- Habitat: 1100-1380 m.

G2642 *N. (N.) smirnius* (DALL, 1919-c)

- Sumiruna-ezo-bora (= Nadegata-ezo-bora)
- Type locality: USFC sta. 3461, Juan de Fuca Strait, Washington, northwestern USA; 114 fms.
  - Distribution: eastern Hokkaidō, OP, Kuril islands (KATŌ, 1993); northwestern USA.
  - Original genus: *Chrysodomus*.

G2643 *N. (N.) tabularis* (DALL, 1919-c)

- Genkotsu-ezo-bora
- Type locality: near Nunivak island, Bering Sea.
  - Distribution: southern Kuril islands (Pacific side), Bering Sea (KATŌ, 1993).
  - Original genus: *Chrysodomus* (as ssp. of *C. saturus*).

Notes:

- (1) Kogata-ezo-bora *N. (N.) denselirata* BRØGGER, 1901 in 1900-1901 (Type locality: Yoldia clay, near Sarpsborg, southern Norway - fossil) was reported from southeastern Hokkaidō and northwards; Okhotsk Sea, Bering Sea (KATŌ, 1993) but the present authors have been unable to confirm the distribution of this species in Japan.
- (2) Tosuji-ezo-bora *Fusus decemcostatus* SAY, 1826 has similarly been reported from Japan, but the present authors have been unable to confirm this.

G2644 *N. (N.) ventricosa* (GMELIN, 1789)

- Ganzeki-ezo-bora
- Type locality: 'ad Sinum R. Georgii' (Bay of the river Georgia).
  - Distribution: northern Hokkaidō, Kuril islands to Alaska.
  - Original genus: *Buccinum*.

Subgenus *Barbitonia* DALL, 1916-a

Type species: *Fusus arthriticus* BERNARDI, 1857 (o. d.)

G2645 *N. (B.) arthritica* (BERNARDI, 1857-a)

- (= *Fusus lurida* A. ADAMS, 1864; *Tritonium (Chrysodomus) antiquus* CARPENTER, 1872; *N. despecta (pars)* sensu Y. HIRASE, 1907; *N. arthritica asamushi, miyata* and *tyosi*, all NOMURA & HATAI, 1937)
- Hime-ezo-bora
- Type locality: 'La rade de Hakadadi, detroit de Sangard' (Hakodate bay, Hokkaidō).
  - Distribution: off Chōshi (Chiba prefecture, central Honshū) and northwards, P8-P10, OP, Japan Sea (western Aomori prefecture and northwards, J4-J6), Kuril islands, Okhotsk Sea; Korea, Primoriye region (east of Vladivostok

ARZAMASTSEV, 1997), Sakhalin.

- Habitat: subtidal to 20 m., rubble.
- Original genus: *Fusus*.

G2646 *N. (B.) cumingi* CROSSE, 1862-a

- Chōsen-bora
- Type locality: 'in sinu Talienwhanensi Chinae septentrionalis' (Dalien Harbour, northeastern China).
  - Distribution: Tsushima strait and northwards, Japan Sea (off Fukui; off Tajima, Hyōgo prefecture K. ITŌ, 1967), Hokkaidō (Hakodate); Korea, Yellow Sea, Bo Hai (Gulf of Chihli, China).
  - Habitat: subtidal to 200 m., rubble.

□ Genus *Golikovia* HABE & SATŌ, 1973

Type species: *Neptunea fukuae* KIRA, 1959 (o. d.)

G2647 *G. fukuae* (KIRA, 1959-a)

- Yūbi-ezo-bora
- Type locality: Tosa bay (southern Shikoku).
  - Distribution: Tosa bay, southwestern Kyūshū, East China Sea.
  - Habitat: 100-300 m., sand.
  - Original genus: *Neptunea*.

G2648 *G. ennae* (SAKURAI & CHIBA, 1969-a)

- Madoko-ezo-bora
- Type locality: off Chōshi (Chiba prefecture, central Honshū).
  - Distribution: off Chōshi and northwards, off Iwate prefecture, P8-P9.
  - Habitat: 100-200 m., sandy mud.
  - Original genus: *Neptunea*.

□ Genus *Tacita* LUS, 1971

Type species: *Tacita holoserica* LUS, 1971 (o. d.)

G2649 *T. holoserica* LUS, 1971

- Ryūgū-ezo-bora
- Type locality: off eastern Honshū, 6090-6135 m., by R. V. 'Vityaz'.
  - Distribution: recorded only from type locality.

G2650 *T.? nivea* (OKUTANI, 1981)

- Shinkai-ezo-bora
- Type locality: 'approximately east off Kinkazan' (Kinkazan Island, Miyagi prefecture, northeastern Honshū): 38° 21.7' N., 143° 25.6' E., 2930-3020 m.
  - Distribution: off Miyagi prefecture and northwards to eastern Hokkaidō (off Kushiro).
  - Original genus: '*Neptunea (Tacita?)*'.

□ Genus *Belomitra* FISCHER, 1882

Type species: *Belomitra paradoxa* FISCHER, 1882

**Note:** the positioning of this genus within this subfamily is provisional (Y. KANTOR, pers. comm.)

G2651 *B. viridis* (OKUTANI, 1966)

- Type locality: 'Sōyō-Maru' sta. T21(2), Sagami bay, central Honshū: 34° 56.8' N., 139° 27.0' E., 1470-1550 m.
- Distribution: recorded only from type locality.
- Original genus: *Speoides* (in Turridae).

Subfamily **PHOTINAE GRAY, 1857**

□ Genus ***Phos* MONTFORT, 1810 in 1808-10**

Type species: *Murex senticosus* LINNAEUS, 1758 (o. d.) (= *Rhinodomus* SWAINSON, 1840)

Subgenus ***Phos* s. str.**

G2652 ***P. (P.) senticosus* (LINNAEUS, 1758)**

Tokusa-bai

- Type locality: none designated.
- Distribution: Ogasawara islands (FUKUDA, 1995), Bōsō peninsula and southwards, P7-P10, J1, northwestern Kyūshū, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Australia.
- Habitat: 10-50 m., sand.
- Original genus: *Murex*.

G2653 ***P. (P.) naucratoros* WATSON, 1882**

(= *P. hirasei* SOWERBY, 1913)

Hime-tokusa-bai

- Type locality: 'Challenger' sta. 219, Admiralty islands; 150 fms.
- Distribution: Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986) and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, Australia.
- Habitat: 50-200 m., fine sand.

G2654 ***P. (P.) hayashii* SHIKAMA, 1977**

Hayashi-tokusa-bai

- Type locality: 'Ensyu-nada' (Enshū-nada off Aichi prefecture, central Honshū).
- Distribution: Enshū-nada to Tosa bay (southern Shikoku).
- Habitat: 100-300 m., coarse sand and stones or sandy mud.

G2655 ***P. (P.) roseatus* HINDS, 1844 in 1844-45**

(= *P. varicosus* GOULD, 1849)

Aka-tokusa-bai (= Tono-tokusa-bai)

- Type locality: 'North coast of Sumatra' (Indonesia).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia.
- Habitat: 50-200 m., coral reefs or mud.

G2656 ***P. (P.) laeve* KURODA & HABE in HABE, 1961-a**

Migaki-tokusa-bai

- Type locality: off Cape Ashizuri, southwestern Shikoku.
- Distribution: Bōsō peninsula and southwards, P7-P5 (western Seto inland sea TSUCHIDA, HORI & MITOKI, 1991), EC5, East China Sea.
- Habitat: 50-300 m., fine sand.

G2657 ***P. (P.) nigrolatum* HABE, 1961-a**

Kuro-suji-tokusa-bai

- Type locality: Enshū-nada off Isshiki, Aichi prefecture (central Honshū); 100 m.
- Distribution: Enshū-nada and westwards, entrance of Ise bay, Kii peninsula, Tosa bay, off western Kyūshū.
- Habitat: 50-150 m., sand.

G2658 ***P. (P.) makiyamai* KURODA, 1961-c**

Otoko-tokusa-bai

- Type locality: Tosa bay (southern Shikoku).
- Distribution: recorded only from type locality.

G2659 ***P. (P.) nodicostatum* A. ADAMS, 1851-c**

Shiro-ko-tokusa-bai (= Shiro-tokusai)

- Type locality: Negros island, Philippines.
- Distribution: Tosa bay (dredged off Okinoshima), 'Pacific side, 10°-34° N'. (KURODA & HABE, 1952-a); Philippines.

G2660 ***P. (P.) elegantissimum* HAYASHI & HABE, 1965-a**

Date-tokusa-bai

- Type locality: mouth of Ise bay (Mie prefecture, central Honshū), 100-120 m.
- Distribution: Enshū-nada and westwards, P6-P5, Tosa bay.
- Habitat: 100-200 m., sand.

G2661 ***P. (P.) pyladeum* KATŌ, 1995**

Tōdaka-ko-tokusa-bai

- Type locality: off Isshiki, Aichi prefecture, central Honshū.
- Distribution: unknown.

**Note:** a Kira MS name, accidentally validated with figure and description by Katō.

Subgenus ***Strongylocera* MÖRCH, 1852**

Type species: *Buccinum textus* GMELIN, 1791

G2662 ***P. (S.) textum* (GMELIN, 1791)**

(= *Buccinum diaphanum* RÖDING, 1798; *Phos blainvillei* DESHAYES, 1832; *P. cancellatum* QUOY & GAIMARD, 1833)

Kiguchi-tokusa-bai (= Kiguchi-hora-damashi)

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific, Australia.
- Habitat: intertidal to 10 m., coarse sand and stones, coral reefs
- Original genus: *Buccinum*.

□ Genus ***Nassaria* LINK, 1807**

Type species: *Buccinum nivea* GMELIN, 1791

(= *Hindsia* A. ADAMS, 1851-c; *Benthindsia* IREDALE, 1936)

(Refs.: Cernohorsky, 1981)

G2663 *N. acuminata* (REEVE, 1844 in 1843-65)

(= *Hindsia bitubercularis* A. ADAMS, 1851; *H. suturalis* A. ADAMS, 1855; *H. varicifera* A. ADAMS, 1855; *Nassaria recurva* SOWERBY, 1859; *H. sinensis* SOWERBY *sensu* KOBELT, 1878; *N. amboynensis* WATSON, 1881 in 1879-83)

Arare-bai

- Type locality: 'China'.
- Distribution: Enshū-nada (off Shizuoka prefecture) and southwards, P6-P5, EC5, East China Sea, P2; Philippines, Australia.
- Habitat: 50-200 m., sand.
- Original genus: *Triton*.

G2664 *N. pusilla* (RÖDING, 1798)

(= *N. multiplicata* SOWERBY, 1859; *Hindsia nivea sensu* KURODA, 1960)

Daruma-hisago-hora-damashi (= Shiro-nasa-bai)

- Type locality: none originally given; designated 'Tranquebar, India' (CERNOHORSKY, 1981).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indian Ocean to Red Sea.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Neptunea*.

□ Genus *Microfus* DALL, 1916-a

Type species: *Chrysodomus acutispiratus* SOWERBY III, 1913 (o. d.)

(= *Nipphonophos* MACNEIL, 1960)

G2665 *M. acutispiratus* (SOWERBY III, 1913-b)

(= *Sipho obesiformis* YOKOYAMA, 1920; *Hindsia* (*Nipphonophos*) *magnifica shimajiriensis* MACNEIL, 1961; *H. acutispirata forma adamsi* KURODA *sensu* HABE, 1964)

Hime-nishi (= Musashino-hime-nishi)

- Type locality: 'Iyo, Inland Sea' (western Seto inland sea off Ehime prefecture, northern Shikoku).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, Tsugaru peninsula, P7-P5, Japan Sea (J4-J1), EC5, P2; Korea, Philippines.
- Habitat: 50-200 m., sand.
- Original genus: *Chrysodomus*.

G2666 *M. acuminatus* (A. ADAMS, 1863-f)

Hime-nishi-modoki

- Type locality: 'Gotto' (Gotō islands, off western Kyūshū), 63 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5.
- Habitat: 50-200 m., sand.
- Original genus: *Siphonalia*.

G2667 *M. magnifica magnifica* (LISCHKE, 1871 in

1868-73)

(= *Hindsia* (*Nipphonophos*) *magnifica okinavia* MACNEIL, 1960; *H. (N.) magnifica takabanarensis* MACNEIL, 1960) Nasa-bai

- Type locality: 'Nagasaki' (western Kyūshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5.
- Habitat: 30-225 m., mud.
- Original genus: *Nassaria*.

G2668 *M. magnifica lischkei* (KURODA in MAKIYAMA, 1927)

Rishike-nasa-bai

- Type locality: Tennoyama, Japan (Pliocene fossil).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5.
- Habitat: 50-200 m., sand.

G2669 *M. magnifica kirai* (HABE, 1961-a)

(= *Nassaria lischkei sensu* KIRA, 1959 *non* KURODA in MAKIYAMA, 1927)

Kira-nasa-bai

- Type locality: off Cape Ashizuri, southwestern Shikoku.
- Distribution: Tosa bay, southwestern Kyūshū (off Koshiki islands; off Makurazaki).
- Habitat: 300-400 m.
- Original genus: *Nassaria* (*Hindsia*).

G2670 *M. solida* (KURODA & HABE in HABE, 1961-a)

(= *Hindsia turbinata* KURODA, 1961-c; *Benthindsia miriamae* DELL, 1967 (*pars*))

Kongō-nasa-bai

- Type locality: off Cape Ashizuri, southwestern Shikoku; 100-200 m.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, northeastern Australia, New Caledonia.
- Habitat: 100-600 m., sand.
- Original genus: *Nassaria*.

G2671 *M. spinigera* (HAYASHI & HABE, 1965-a)

(= *Benthindsia miriamae* DELL, 1967 (*pars*))

Iga-arare-bai

- Type locality: Enshū-nada, off Shizuoka prefecture, central Honshū; ± 200 m.
- Distribution: Izu islands (off Hachijō island, 460 m. OKUTANI, 1968), P6-P5, EC5, ECP4-ECP2, P2; Philippines, Indonesia, New Caledonia, Kermadec islands.
- Habitat: 100-300 m., sand.
- Original genus: *Hindsia*.

G2672 *M. adamsi* (KURODA, 1961-c)

Adamsu-hime-nishi

- Type locality: off Mishima, Japan Sea.
- Distribution: Enshū-nada and westwards, P6-P5, Japan

Sea (northern Yamaguchi prefecture, J1), EC5.

- Habitat: 100-200 m., sand.

G2673 *M. aspera* (KURODA, 1961-c)

Ara-hime-nishi

- Type locality: entrance of Ise bay, Mie prefecture, central Honshū.
- Distribution: Sagami bay and westwards, Enshū-nada, Ise bay.
- Habitat: 50-100 m., sand.

Subfamily SIPHONALIINAE FINLAY, 1928

□ Genus *Siphonofusus* KURODA & HABE, 1954

Type species: *Siphonalia lubrica* DALL, 1918 (o. d.)

G2674 *S. lubricus* (DALL, 1918-a)

(= *Siphonalia longicanalis* NOMURA & ZINBO, 1934)

Onaga-mikuri (= Hashinaga-mikuri)

- Type locality: 'Tosa' (Tosa bay, southern Shikoku) 'and Nagasaki, Japan'.
- Distribution: Izu peninsula and westwards (Mie prefecture; southern Shikoku SUGIMURA, 1997), P6-P5, EC5.
- Habitat: 100-200 m., coarse sand and stones.
- Original genus: *Siphonalia*.

G2675 *S. chinensis* (MACNEIL, 1960)

Mōri-onaga-mikuri

- Type locality: Okinawa (fossil).
- Distribution: western Japan Sea (Korea strait MACNEIL, 1960; off Tsunoshima SUGIMURA, 1997).

□ Genus *Siphonalia* A. ADAMS, 1863

Type species: *Buccinum cassidariaeformis* REEVE, 1846

G2676 *S. cassidariaeformis* (REEVE, 1846 in 1843-65)

(= *Buccinum aestuosa* GOULD, 1860; *S. corrugata* A. ADAMS, 1863; *S. grisea* A. ADAMS, 1863; *S. ornata* A. ADAMS, 1863; *S. cassidariaeformis funerea* PILSBRY, 1895; *S. cassidariaeformis tosana* Y. HIRASE, 1908)

- Mikuri-gai (= Tōmaki-mikuri; Torafu-mikuri; Nezumi-mikuri; Yanagi-no-ito; Kuro-suji-mikuri)
- Type locality: none designated.
  - Distribution: Mutsu bay (Aomori prefecture) and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea, China.
  - Habitat: 10-300 m., sand.
  - Original genus: *Buccinum*.

G2677 *S. fusoides* (REEVE, 1846 in 1843-65)

(= *S. longirostris* DUNKER, 1882; *S. semiplicata* SOWERBY III, 1896)

Tō-ito (= Usu-iro-mikuri; Maru-mikuri)

- Type locality: none designated.
- Distribution: northern Honshū (Aomori prefecture) and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5;

Korea.

- Habitat: 10-100 m., sand.
- Original genus: *Buccinum*.

G2678 *S. vanattai* PILSBRY, 1905

Hime-mikuri

- Type locality: 'Yakushima, Osumi' (Yakushima island, off southern Kyūshū).
- Distribution: Tosa bay to Tanegashima & Yakushima.
- Habitat: 100-200 m., sand.

G2679 *S. trochula trochula* (REEVE, 1846 in 1843-65)

Mio-tsukushi (= Tsuno-nashi-mikuri)

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5.
- Habitat: 10-50 m., sand.
- Original genus: *Buccinum*.

G2680 *S. trochula tokaiensis* KIRA, 1959-b

Arabori-mio-tsukushi

- Type locality: Atsumi peninsula (Aichi prefecture, central Honshū).
- Distribution: off Mikawa (Aichi prefecture), Enshū-nada, entrance to Suruga bay.
- Habitat: 20-100 m., sand.

G2681 *S. concinna* A. ADAMS, 1863-f

(= *S. mikado* MELVILL, 1888; *S. hyperodon* PILSBRY, 1895)

Mikado-mikuri

- Type locality: 'Kuroshima' (possibly Sagami bay, central Honshū or off Kagoshima prefecture, southern Kyūshū).
- Distribution: Sagami bay and westwards, Enshū-nada, Tosa bay.
- Habitat: ± 100 m., sand.

G2682 *S. signa* (REEVE, 1846 in 1843-65)

Shima-mikuri

- Type locality: none designated.
- Distribution: Fukushima prefecture and southwards, P8-P5, southern Kyūshū.
- Habitat: 10-20 m., sand.
- Original genus: *Buccinum*.

G2683 *S. pfefferi* SOWERBY III, 1900

(= *pfefferi* auct.)

Shima-arare-mikuri

- Type locality: 'Tosa, Shikoku, Japan' (Tosa bay).
- Distribution: Kii peninsula and southwards, P6, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4.
- Habitat: 10-60 m., sand.

G2684 *S. aspersa* KURODA & HABE in HABE, 1961-a

Arabori-mikuri

- Type locality: Enshū-nada off Isshiki, Aichi prefecture

(central Honshū); 120-150 m.

- Distribution: western Suruga bay, Enshū-nada, Kii peninsula, Tosa bay.
- Habitat: 100-200 m., coarse sand and stones.

G2685 *S. hirasei* **KURODA & HABA in HABA, 1961-a**  
Hirase-mikuri

- Type locality: Enshū-nada, between Kumano-nada and Kii strait (central Honshū); 100 m.
- Distribution: Enshū-nada and westwards, Kii peninsula, Tosa bay.
- Habitat: 100-150 m., fine sand.

G2686 *S. kikaigashimana* **HIRASE, 1908-b**  
Kikai-mikuri

- Type locality: Kikaishima, Amami islands.
- Distribution: recorded only from type locality.

G2687 *S. spadicea* (**REEVE, 1846 in 1843-65**)  
(= *Neptunea fuscolineata* PEASE, 1860; *S. filosa* A. ADAMS, 1863)  
Mayu-tsukuri

- Type locality: none designated.
- Distribution: southwestern Hokkaidō and southwards, Iwate prefecture (Ōtsuchi bay TSUCHIDA, 1991), P10-P5, Japan Sea (Oga peninsula, J4-J1), EC5; Korea.
- Habitat: 20-250 m., sandy mud.
- Original genus: *Buccinum*.

**Notes:** Reeve figured this species under the name *Buccinum fusoides* but amended the name in the index.

G2688 *S. modificata* (**REEVE, 1846 in 1843-65**)  
(= *S. colus* A. ADAMS, 1863; *S. pseudobuccinum* MELVILL, 1888; *S. stearnsii* PILSBRY, 1895)  
Seko-bora (= Itomaki-mikuri)

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, Noto peninsula, P7-P5, J2-J1, EC5; Korea (Komum island).
- Habitat: 20-50 m., sand.
- Original genus: *Buccinum*.

G2689 *S. callizona callizona* **KURODA & HABA in HABA, 1961-a**  
Tōgata-mikuri

- Type locality: off Cape Ashizuri, southwestern Shikoku.
- Distribution: off Kii peninsula and westwards, Tosa bay, western Kyūshū.
- Habitat: 100-200 m., sand.

G2690 *S. callizona bicallizona* **HABA, 1961-a**  
Futa-suji-tōgata-mikuri

- Type locality: off Cape Ashizuri, southwestern Shikoku; 150-200 m.
- Distribution: Tosa bay, western Kyūshū.
- Habitat: 100-200 m., sand.

G2691 *S. soyomaruae* **OKUTANI, 1972**

Yasagata-mikuri

- Type locality: Takase bank, Izu islands: 34° 26.3' N., 139° 12.4' E., 140-190 m.
- Distribution: recorded only from type locality.

G2692 *S. ligata* **A. ADAMS, 1863-f**

- Type locality: 'Japan'.
- Distribution: unknown.

G2693 *S. munda* **A. ADAMS, 1863-f**

- Type locality: 'Kuro-Sima' (Kuroshima; possibly either Sagami bay or off Kagoshima prefecture, southern Kyūshū); 35 fms.
- Distribution: recorded only from type locality.

G2694 *S. nodulosa* **A. ADAMS, 1863-f**

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: recorded only from type locality.

G2695 *S. pyramis* **A. ADAMS, 1863-f**

- Type locality: 'Satanomisaki' (Cape Sata, Kagoshima prefecture, southern Kyūshū); 55 fms.
- Distribution: recorded only from type locality.

□ Genus *Kelletia* **FISCHER, 1884**

Type species: *Siphonalia (Kelletia) kellei* FORBES, 1850

G2696 *K. lischkei* **KURODA, 1938**

(= *Siphonalia kellei sensu* LISCHKE, 1869 *non* FORBES, 1850; *S. kellei* FORBES *sensu* Y. HIRASE, 1908; IWAKAWA, 1919)

Migaki-bora (= Hanguro-tsunomata-modoki)

- Type locality: 'Nagasaki' (western Kyūshū).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5; Korea.
- Habitat: intertidal to 20 m., rocks.

Subfamily **PISANIINAE GRAY, 1857**

(= **ENGININAE HABA, 1973 *nom. nud.***)

□ Genus *Engina* **GRAY, 1839**

Type species: *Engina zonata* GRAY, 1839

(= *Enzina* GRAY, 1847 *nom. null.*; *Enzinopsis* IREDALE, 1940)

G2697 *E. menkeana* (**DUNKER, 1860**)

(= *Tritonidea submenkeana* PILSBRY, 1901)

Gomafu-hora-damashi (= Naga-gomafu-hora-damashi)

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5; Korea.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Cantharus (Pollia)*.

G2698 *E. lineata* (**REEVE, 1846 in 1843-65**)

(= *Ricinula lineata var. maculata* PEASE, 1869)

Noshime-nina

- Type locality: 'Island of Ticao, Philippines (under stones at low water)'.
- Distribution: Ogasawara islands (FUKUDA, 1994), Izu islands and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Australia.
- Habitat: intertidal, rocks.
- Original genus: *Ricinula*.

G2699 *E. zonalis* (LAMARCK, 1822 in 1815-22)  
(= *Ricinula zonata* REEVE, 1846 non *E. zonalis* GRAY, 1839; *E. melazona* TOMLIN, 1928)

Hoso-noshi-gai

- Type locality: none designated.
- Distribution: Ogasawara islands (FUKUDA, 1994) Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; Philippines, Indo-Pacific, Australia.
- Habitat: intertidal, rocks.
- Original genus: *Ricinula*.

G2700 *E. alveolata* (KIENER, 1836 in 1834-80)  
(= *Ricinula lauta* REEVE, 1846; *R. histrio* REEVE, 1846; *R. trifasciata* REEVE, 1846; *R. fusiformis* PEASE, 1865; *E. reevei* TRYON, 1883)

Genroku-noshi-gai (= Safuran-noshi-gai)

- Type locality: none designated.
- Distribution: Tosa bay (AZUMA, 1960), Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, tropical Indo-Pacific, Hawaii.
- Habitat: intertidal to 10 m., rocks.
- Original genus: *Ricinula*.

G2701 *E. lanceolata* (KURODA & HABE in KURODA *et al.*, 1971)

Chagasuri-noshi-gai

- Type locality: east off Warishima, Sagami bay (central Honshū); 18 m.
- Distribution: Sagami bay and westwards, P6-P5, Japan Sea (Noto peninsula, J2-J1), EC5.
- Habitat: intertidal to 20 m., rocks and gravel.
- Original genus: *Enzinopsis*.

G2702 *E. idosia* (DUCLOS in CHENU, 1848 in 1843-53)  
Hina-reishi-noshi-gai (= Genroku-reishi-damashi)

- Type locality: none designated.
- Distribution: Ogasawara islands (FUKUDA, 1994; 1995), Amami islands and southwards, ECP3-ECP2, P2.
- Habitat: intertidal to 10 m., rocks.
- Original genus: *Columbella*.

G2703 *E. phasinola* (DUCLOS, 1840 in 1835-40)

Shiro-ibo-noshi-gai

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, tropical Pacific, Australia.

- Habitat: intertidal, rocks.
- Original genus: *Columbella*.

G2704 *E. incarnata* (DESHAYES in LABORDE, 1834)  
(= *Ricinula astricta* REEVE, 1846; *R. paulucciae* TAPPARONE-CANEFRI, 1879; *R. kobeltiana* TAPPARONE-CANEFRI, 1880)

Tensuji-noshi-gai

- Type locality: 'Mer Rouge' (Red Sea).
- Distribution: Izu islands and southwards, P6-P5, ECP4-ECP2, P2; Philippines, Australia, Red Sea, central Pacific.
- Habitat: intertidal, rocks.
- Original genus: *Turbinella*.

G2705 *E. zatricium* MELVILL, 1894

Midarefu-noshi-gai

- Type locality: Lifu, Loyalty islands, New Caledonia.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific.
- Habitat: intertidal, rocks.

G2706 *E. mundula* (MELVILL & STANDEN, 1895)

Kurifu-noshi-gai

- Type locality: Lifu, Loyalty islands, New Caledonia.
- Distribution: Amami Ōshima and southwards, ECP4-ECP2, P2; Philippines, Indo-Pacific, Australia.
- Habitat: intertidal, rocks.

G2707 *E. zepa* (DUCLOS in CHENU, 1848 in 1843-53)

Goma-madara-noshi-gai

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2; Indo-Pacific.
- Habitat: intertidal, rocks.
- Original genus: *Colombella* (*sic*).

G2708 *E. mendicaria* (LINNAEUS, 1758)

Noshi-gai

- Type locality: 'in Asia'.
- Distribution: Ogasawara islands, Izu peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Australia.
- Habitat: intertidal under rocks.
- Original genus: *Voluta*.

□ Genus *Prodotia* DALL, 1924

Type species: *Phos billeheusti* PETIT, 1853 (o. d. = *Buccinum iostoma* GRAY, 1834)

G2709 *P. iostoma* (GRAY in GRIFFITH & PIDGEON, 1834)

(= *Buccinum crocata* REEVE, 1846; *B. marmoratum* REEVE, 1846 non LINK, 1807; *B. gracilis* REEVE, 1846 non DACOSTA, 1778; *Phos billeheusti* PETIT de la SAUSSAYE, 1853; *Cantharus desmoulini* MONTROUZIER, 1864; *C. crosseanus* SOUVERBIE,

1865; *C. difficilis* SMITH, 1913)

Kagome-hora-damashi (= Kagome-bekkō-bai; Hoso-kagome-bekkō-bai)

- Type locality: none designated.
- Distribution: Ogasawara islands (FUKUDA, 1994), Kii peninsula and southwards, western Kyūshū, P5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Australia.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Triton*.

G2710 *P. egregia* (REEVE, 1844 in 1843-65)

(= '*Pisania (Prodotia) naerosa* MARTENS var.' sensu KURODA, 1941; *Phos amoenus* SCHWENGEL, 1950) Hisago-hora-damashi

- Type locality: Island of Masbate, Philippines (found under stones at low water).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2.
- Habitat: subtidal to 30 m., sand.
- Original genus: *Triton*.

G2711 *P. obliquicostata* (REEVE, 1846 in 1843-65)

Shiraboshi-bekkō-bai

- Type locality: Island of Ticao, Philippines.
- Distribution: Okinawa (Cape Zanpa); Philippines.
- Habitat: 5-10 m., sand.
- Original genus: *Buccinum*.

□ Genus *Pollia* GRAY in SOWERBY I, 1834

Type species: *Buccinum undosum* LINNAEUS, 1758 (mt.) (= *Pusio* GRAY in GRIFFITH & PIDGEON, 1834; *Tritonidea* SWAINSON, 1840; *Algrus* GREGORIO, 1855; *Gemophos* OLSSON & HARBISON, 1953)

G2712 *Po. undosa* (LINNAEUS, 1758)

(= *Buccinum affine* GMELIN, 1791)

Sujiguro-hora-damashi

- Type locality: 'in Asia'.
- Distribution: Hachijō island and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific, Australia.
- Habitat: intertidal, rocks.
- Original genus: *Buccinum*.

G2713 *Po. mollis* (GOULD, 1860 in 1859-61)

(= *Tritonidea undulata* SCHEPMAN, 1891-b; *T. tosana* PILSBRY, 1904)

Shiwa-hora-damashi (= Awaji-hora-damashi; Tosa-hora-damashi)

- Type locality: 'Simoda' (Shimoda, Izu peninsula, central Honshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5; southeastern Korea.
- Habitat: intertidal to 20 m., rubble.
- Original genus: *Pisania*.

**Notes:** shell normally entirely covered by the hydroid *Hydractinia epiconcha*.

G2714 *Po. rubiginosa* (REEVE, 1846 in 1843-65)

Hime-hora-damashi

- Type locality: 'Red Sea'.
- Distribution: Amami islands and southwards, ECP3-ECP2; Indo-Pacific, Red Sea.
- Habitat: intertidal, rocks.
- Original genus: *Buccinum*.

G2715 *Po. subrubiginosa* (E. A. SMITH, 1879)

Ko-hora-damashi

- Type locality: Ukushima, Gotō islands, off western Kyūshū; low water, under rocks.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5; southeastern Korea, western Pacific.
- Habitat: intertidal to subtidal, rocks and gravel.
- Original genus: *Tritonidea*.

G2716 *Po. fumosa* (DILLWYN, 1817)

(= *Buccinum proteus* REEVE, 1846 in 1843-65)

Hora-damashi

- Type locality: none designated.
- Distribution: Ogasawara islands and southwards, P11, Kii peninsula, P6-P5, EC5, ECP4-ECP2; Indo-Pacific, Australia.
- Habitat: intertidal, rocks and gravel.
- Original genus: *Buccinum*.

G2717 *Po. wagneri* (ANTON, 1838)

(= *Turbinella crenulata* REEVE, 1847 non KIENER, 1840)

Teramachi-hora-damashi

- Type locality: none designated.
- Distribution: Tosa bay and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, tropical western Pacific.
- Habitat: intertidal to 20 m., rocks and gravel.
- Original genus: *Turbinella*.

□ Genus *Clivipolla* IREDALE, 1929

Type species: *Clivipolla imperita* IREDALE, 1929 (o. d.; = *Ricinula pulchra* REEVE, 1846)

G2718 *C. pulchra* (REEVE, 1846 in 1843-65)

(= *Engina elegans* DUNKER sensu KURODA, 1928; *E. imperita* IREDALE, 1929; *pulcher* auct.)

Kuchibeni-hora-damashi

- Type locality: 'Island of Capul, Philippines (on the reefs at low water)'.
- Distribution: Ogasawara islands (FUKUDA, 1995), Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Australia.
- Habitat: intertidal, rocks.
- Original genus: *Ricinula*.

G2719 *C. fragaria* (WOOD, 1828 in 1818-28)

(= *Buccinum carolinae* KIENER, 1844; *Ricinula bella* REEVE, 1846)

Hade-noshi-gai

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal, rocks.
- Original genus: *Voluta*.

G2720 *C. recurva* (REEVE, 1846 in 1843-65)

Itomaki-noshi-gai

- Type locality: 'Island of Capul, Philippines; under stones at low water'.
- Distribution: Izu peninsula and southwards, P6-P5, ECP4-ECP2; Indo-Pacific.
- Habitat: intertidal to subtidal, rocks.
- Original genus: *Ricinula*.

□ Genus *Pisania* BIVONA, 1832

Type species: *Pisania striatula* BIVONA, 1832 (= *Voluta striata* GMELIN, 1791)

(= *Proboscidea* SCHMIDT in MÖLLER, 1832 non BRUGUIÈRE, 1781; *Ecmania* GISTL, 1848; *Polliana* E. M. GRAY, 1860; *Appisania* THIELE, 1929; *Sukunaia* CERNOHORSKY, 1966)

G2721 *P. fasciculata* (REEVE, 1846 in 1843-65)

(= *P. delicatula* SOWERBY III, 1901)

Kuro-suji-bekkō-bai (= Kasuri-shima-bekkō-bai)

- Type locality: Island of Mindanao, Philippines.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Indo-western Pacific, Australia.
- Habitat: intertidal, rocks and gravel.
- Original genus: *Buccinum*.

G2722 *P. sugimotoi* (HABE, 1968-b)

Kazari-bekkō-bai

- Type locality: Okinoshima, near Cape Ashizuri, southwestern Shikoku.
- Distribution: Tosa bay (southern Shikoku) and southwards, P5, ECP4-ECP2.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Appisania*.

G2723 *P. crenilabrum* A. ADAMS, 1855-k

(= *P. montrouzieri* CROSSE, 1862)

Kuro-bekkō-bai

- Type locality: 'West Indies' (Cuming collection).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, central Pacific, Australia.
- Habitat: intertidal, rocks and gravel.

G2724 *P. ignea* (GMELIN, 1791)

(= *Buccinum buccinulum* RÖDING, 1798; *B. flammulatum* QUOY & GAIMARD, 1833; *B. pictum* REEVE, 1846)

Bekkō-bai

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2, P2; Korea, western Pacific.
- Habitat: intertidal, rubble.
- Original genus: *Buccinum*.

G2725 *P. tritonoides* (REEVE, 1846 in 1843-65)

Maru-bekkō-bai

- Type locality: Island of Ticao, Philippines.
- Distribution: Bōsō peninsula and southwards, P7-P5, western Japan Sea (Yamaguchi prefecture FUKUDA *et. al.*, 1992), EC5, ECP4-ECP2, P2; Philippines.
- Habitat: subtidal to 20 m., rubble.
- Original genus: *Buccinum*.

□ Genus *Caducifer* DALL, 1904

Type species: *Triton truncatus* HINDS, 1844 (o. d.)

G2726 *C. truncatus* (HINDS, 1844 in 1844-45)

(= *Cantharus cylindricus* PEASE, 1868)

Shiri-ore-hora-damashi (= Kurofu-hora-damashi)

- Type locality: 'New Ireland (Papua New Guinea). In society with *T. bracteatus*' (*Triton bracteatus* HINDS, 1844 in 1844-45).
- Distribution: Ogasawara islands, Amami islands and southwards, ECP3-ECP2, P2; Philippines, tropical Pacific, Australia.
- Habitat: intertidal to 10 m., rubble.
- Original genus: *Triton*.

G2727 *C. decapitatus* (REEVE, 1844 in 1843-65)

(= *Pisania fuscomaculata* PEASE, 1860)

Koge-iro-hora-damashi

- Type locality: island of Burias, Philippines; under stones at low water.
- Distribution: Ogasawara islands, Amami islands and southwards, ECP3, ECP2, P2; Philippines, Australia.
- Habitat: intertidal to 10 m., rubble.
- Original genus: *Triton*.

□ Genus *Cantharus* RÖDING, 1798

Type species: *Buccinum tranquebaricum* GMELIN, 1791

(= *Anna* RISSO, 1826; *Muricantharus* HERTLEIN & STRONG, 1971)

G2728 *Ca. cecillii* (PHILIPPI, 1844)

Ogai

- Type locality: 'China, ad ostium fluminis Yang-tse-kiang' (mouth of the Yangtse river).
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (northern Yamaguchi prefecture, J1), EC5; Korea.
- Habitat: inner bays, intertidal, rocks and gravel.
- Original genus: '*Turbinella*'?



G2729 *Ca. melanostomus* (SOWERBY I, 1825)

Kanetsuke-bora

- Type locality: none designated.
- Distribution: southern Okinawa and southwards, ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Buccinum*.

□ Genus *Japeuthria* IREDALE, 1918

Type species: *Buccinum ferreum* REEVE, 1847 (o. d.)

G2730 *J. ferrea* (REEVE, 1847 in 1843-65)

(= *Fusus viridulus* DUNKER, 1861; *Euthria ferrea smithi* KOBELT, 1881)

Iso-nina

- Type locality: none designated; data on boards attached to syntypes in BMNH includes 'Satsuma bay, South of Kiushiu' (off southern Kagoshima prefecture, Kyūshū) and 'Ukushima, Gotō Is. 33 16 N: 129 4 E'.
- Distribution: Fukushima prefecture and southwards, P8-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2; Korea, western Pacific.
- Habitat: intertidal, rocks and gravel.
- Original genus: *Buccinum*.

G2731 *J. cingulata* (REEVE, 1846 in 1843-65)

Shima-bekkō-bai

- Type locality: none designated.
- Distribution: Izu islands and southwards, P6-P5, EC5, ECP4-ECP2, P2; western Pacific.
- Habitat: intertidal, rocks and gravel.
- Original genus: *Buccinum*.

□ Genus *Truncaria* ADAMS & REEVE, 1850 in 1848-50

Type species: *Buccinum filosa* ADAMS & REEVE, 1848

G2732 *T. filosa* (ADAMS & REEVE, 1848 in 1848-50)

- Type locality: 'China Sea'.
- Distribution: 'Pacific coast, 29° N.' (KURODA & HABE, 1952-a).
- Original genus: *Buccinum*.

□ Genus *Searlesia* HARMER, 1915

Type species: *Trophon costiferum* WOOD, 1848

G2733 *S. modesta* (GOULD, 1860 in 1859-60)

(= *Euthria fuscolabiata* SMITH, 1874; *E. hokkaidonis* PILSBRY, 1901; *S. constricta* DALL, 1918)

Ezo-iso-nina (= Toba-iso-nina; Chōsen-iso-nina)

- Type locality: 'Hakodadi' (Hakodate, Hokkaidō); 'in 10 fathoms, shelly sand'.
- Distribution: northeastern Honshū (Ōtsuchi bay, Iwate prefecture TSUCHIDA, 1991), Hokkaidō, Japan Sea (Noto peninsula); northeastern Korea.
- Habitat: subtidal to 270 m., rocks and gravel.

- Original genus: *Fusus*.

G2734 *S. badia* (A. ADAMS, 1863-m)

- Type locality: Tsushima, western Japan Sea.
- Distribution: 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a); type locality.
- Original genus: *Euthria*.

□ Genus *Euthria* GRAY, 1850

Type species: *Murex cornea* LINNAEUS, 1758

G2735 *E. lirata* A. ADAMS, 1863-m

- Type locality: 'Tsusaki' (details unknown).
- Distribution: 'Pacific coast, 33° N. (?)' (KURODA & HABE, 1952-a); type locality.

Subfamily BABYLONINAE KURODA *et al.*, 1971

□ Genus *Babylonia* SCHLÜTER, 1838

Type species: *Buccinum spiratum* LINNAEUS, 1758 (Refs.: Altena & Gittenberger, 1981)

G2736 *B. japonica* (REEVE, 1843-d)

Bai

- Type locality: '*ad oras Japonicas*' (coasts of Japan).
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea, China.
- Habitat: intertidal to 50 m., sand.
- Original genus: *Eburnea*.

G2737 *B. kirana* HABE, 1965

(= *B. pallida sensu* KIRA, 1959; KURODA, 1960, *non* PERRY, 1811)

Usu-iro-bai

- Type locality: Naha, Okinawa.
- Distribution: Okinawa islands and southwards, ECP2, P2; Taiwan, Marianas (ALTENA & GITTENBERGER, 1981).
- Habitat: intertidal to 10 m., sand.

Subfamily BUCCININAE RAFINESQUE, 1815

(= COLUBRARIIDAE DALL, 1904)

□ Genus *Buccinum* LINNAEUS, 1758

Type species: *Buccinum undatum* LINNAEUS, 1758 (= *Tritonium* MÜLLER, 1776; *Mada* JEFFREYS, 1867)

G2738 *B. inclytum* PILSBRY, 1904-a

Himo-maki-bai

- Type locality: Etorofu island, Kuril islands.
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, P9-P10, Hokkaidō (Nemuro KURODA, 1935-a), Japan Sea (off Fukui prefecture, J2-J5), OP, Kuril Islands.
- Habitat: intertidal to 50 m., sandy mud.

G2739 *B. eugrammatum* DALL, 1907-c

Futo-himo-kake-bai

- Type locality: 'Albatross' sta. 4777, Petrel bank, Bering Sea; 52 fms.
- Distribution: Kuril islands and northwards, OP; Okhotsk

Sea, Bering Sea.

- Habitat: 50-150 m., sandy mud.

G2740 *B. zelotes* DALL, 1907-c

Ijike-shira-itomaki (= Ijike-bai)

- Type locality: USFC sta. 4826, Sea of Japan; 114 fms.
- Distribution: Hokkaidō (KURODA, 1935-a), P10, Japan Sea (off Noto peninsula and northwards, J2-J5).
- Habitat: 100-300 m., sandy mud.

G2741 *B. niponense* DALL, 1907-c

(= *nipponense* auct.)

Hime-shira-itomaki

- Type locality: USFC sta. 5038, south coast of Japan; 175 fms.
- Distribution: Bōsō peninsula and northwards, P8-P10, southern Hokkaidō.
- Habitat: 100-300 m., sandy mud.

G2742 *B. isaotakii* KIRA, 1959-a

(= *B. leucostoma* sensu KURODA, 1935)

Shira-itomaki

- Type locality: northeastern Honshū, 50-100 fms.
- Distribution: Kashima-nada (off Ibaraki prefecture) and northwards, Iwate prefecture (Ōtsuchi bay TSUCHIDA, 1991), P8-P10, Japan Sea (J3-J5), Hokkaidō; Korea.
- Habitat: 300-600 m., sandy mud.

G2743 *B. leucostoma* LISCHKE, 1872 in 1868-73

(= *B. surugonum* (sic) DALL, 1907; *B. chartium* DALL, 1919; *B. suzumai* HABE & ITŌ, 1980-a)

Suruga-bai (= Tō-ito-bai; Suzuma-bai)

- Type locality: 'Bucht von Jedo und zwar von Jokohama bis hinaus zur Insel Enosima' (Tōkyō bay, specifically from Yokohama to Enoshima).
- Distribution: Bōsō peninsula and westwards, P7-P6, Suruga bay, off Mikawa (Aichi prefecture), Tosa bay, Japan Sea (off Tango peninsula, Kyōto prefecture; off Tajima, Hyōgo prefecture K. ITŌ, 1967; Noto peninsula, J2-J1)
- Habitat: 50-600 m., sandy mud.

G2744 *B. sagamianum* OKUTANI, 1977-a

Sagami-bai

- Type locality: Sagami bay, central Honshū: 35° 05.9' N., 139° 08.9' E., 400 m.
- Distribution: Sagami bay, Suruga bay.
- Habitat: 400-700 m., sandy mud.

G2745 *B. opisthoplectum* DALL, 1907-c

(= *B. opisthoplectum* auct.)

Kubire-bai

- Type locality: 'Albatross' sta. 4996, Sea of Japan; 86 fms.
- Distribution: Japan Sea (Shimane prefecture (KURODA, 1935-a); off Fukui prefecture; Niigata prefecture; Sado island, off Otaru, Hokkaidō); eastern Korean peninsula,

Sakhalin.

- Habitat: 100-100 m., sandy mud.

G2746 *B. japonicum* A. ADAMS, 1861-d

(= *B. opisthoplectum microconcha* HABE & ITŌ, 1965-b)

Kobito-kubire-bai

- Type locality: Japan Sea off Okushiri island, eastern Hokkaidō.
- Distribution: Hokkaidō, P10, J5.
- Habitat: 50-300 m., sandy mud.

G2747 *B. jeffreysii* E. A. SMITH, 1875

Jefuriizu-ezo-bai

- Type locality: off Japan: 42° 58' N., 145° 24' E., 48 fms.
- Distribution: 'Pacific side 35° N.' (KURODA & HABE, 1952-a).

G2748 *B. glaciale glaciale* LINNAEUS, 1767

(= *B. carinatum* PHILIPPI, 1774; *B. tubulosum* REEVE, 1845; *B. turritum* VERKRÜZEN, 1878; *B. richardi* DAUTZENBERG & FISCHER, 1912; *B. donovani* DAUTZENBERG & FISCHER, 1912; *B. angulosum transliratum* DALL, 1919; *B. angulosum* sensu MORRIS, 1952 non GRAY, 1839)

Juzukake-bai

- Type locality: 'in *O. septentrionali ad Spitzbergam insulam*' (Spitzbergen island, Arctic Ocean).
- Distribution: Kuril Islands (Etorofu KURODA, 1935a); Okhotsk Sea ('Kamchatka and Japan' MACGINITIE, 1959); Bering Sea, Aleutian islands, northwestern USA (Washington State DODGE, 1956 in 1952-59), Arctic Ocean.
- Habitat: 100-300 m., sandy mud.

G2749 *B. glaciale parallelum* DALL, 1918

- Type locality: Nazan bay, Atka island, Aleutians.
- Distribution: Kuril Islands (Etorofu KURODA, 1935-a); Sakhalin, Bering Sea, Aleutian islands.
- Habitat: 100-300 m., sandy mud.

G2750 *B. glaciale morchianum* (DUNKER, 1858)

- Type locality: 'ad Sitcham Russorum insulam' (Sitka Island, now in Alaska).
- Distribution: Hokkaidō (KURODA & KINOSHITA, 1951); 'Pacific side 44°-60° N.' (KURODA & HABE, 1952-a).

G2751 *B. sakhalinense* DALL, 1907-c

Karafuto-bai

- Type locality: USFC sta. 5010, Aniwa bay, Sakhalin; 21 fms.
- Distribution: Hokkaidō (off Kushiro) and northwards, P10, OP, Kuril islands; Sakhalin.
- Habitat: 50-200 m., mud.

G2752 *B. ectomocyma* DALL, 1907-c

(= *B. ectomycima* (*sic*) *beringense sensu* GOLIKOV, 1980)

Oni-ezo-bai

- Type locality: USFC sta. 5023, east coast of Sakhalin; 75 fms.
- Distribution: Hokkaidō and northwards, P10, OP, Japan Sea (J5-J6), Okhotsk Sea; Sakhalin.
- Habitat: 100-200 m., mud.

G2753 *B. verkruzeni* KOBELT, 1883

(= *B. schantaricum* VERKRÜZEN, 1882 *non* MIDDENDORFF, 1848)

Ō-karafuto-bai

- Type locality: southern Sakhalin.
- Distribution: eastern Hokkaidō (Nemuro KURODA, 1935-a) and northwards, OP, northern Japan Sea (J6); Sakhalin, Primoriye region (Japan Sea coast of Russia).
- Habitat: 50-200 m., mud.

G2754 *B. lischkeanum* LÖBBECKE, 1881

Rishike-bai

- Type locality: northern Japan.
- Distribution: Hokkaidō and northwards, P10, OP, Kuril islands (Araido - now Atlasova island off Paramushir KURODA, 1935-a); Okhotsk Sea.
- Habitat: 100-300 m., sandy mud.

G2755 *B. middendorffi* VERKRÜZEN, 1882

(= *Tritonium* (*Buccinum*) *undatum* var. *schantarica* MIDDENDORFF, 1851 *non* *B. schantaricum* MIDDENDORFF, 1851)

Ezo-bai

- Type locality: 'der Ostküste Sachalin' (east coast of Sakhalin).
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, Hokkaidō (Akkeshi; Nemuro KURODA, 1935-a), P10, OP, Kuril islands; Sakhalin.
- Habitat: intertidal to 20 m., rocks.

G2756 *B. schantaricum choshiensis* SHIKAMA, 1962

- Type locality: 'precisely unknown'; article is on shells from off Chōshi, Chiba prefecture, central Honshū.
- Distribution: known only from type material.
- Habitat: 400 m.

G2757 *B. elatior* (MIDDENDORFF, 1849)

Chijiwa-ezo-bai

(= *Tritonium tenue* GRAY, 1839 *non* SCHRÖTER, 1805)

- Type locality: 'Das Eismeer an den Küsten von Lappland' (Arctic Ocean, coast of Lappland, northern Sweden).
- Distribution: Hokkaidō, P10, OP, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J6); Bering Sea, Kamchatka peninsula, Alaska, Canada.
- Habitat: 30-250 m., sandy mud.
- Original genus: *Tritonium* (as *forma* of *T. tenue*).

G2758 *B. lyperum* DALL, 1919-c

Yawahada-bai

- Type locality: east coast of Kamchatka peninsula, 100 fms.
  - Distribution: Hokkaidō (off Monbetsu) and northwards, OP; off Sakhalin, Okhotsk Sea.
  - Habitat: 100-300 m., mud.
- Notes:** Originally ssp. of *B. tenue*.

G2759 *B. rhodium* DALL, 1919-c

Rojiūm-bai

- Type locality: none originally given; 'Plover bay, eastern Siberia' in DALL, 1925. (Plover Bay, Bering strait, Chukchi (Chukotsk) peninsula, eastern Siberia).
- Distribution: Hokkaidō (KURODA & KINOSHITA, 1951; SHIKAMA, 1957-a); Bering strait, off Sakhalin.
- Habitat: 100-300 m., mud.

G2760 *B. rarusum* CHIBA, 1984-a

Mare-ezo-bai

- Type locality: off Kushiro, Hokkaidō; 50 m.
- Distribution: recorded only from type locality.

G2761 *B. cnismatum cnismatum* DALL, 1907-c

Habutae-ezo-bai

- Type locality: USFC sta. 3331, north of Unalaska, Bering Sea; 350 fms.
- Distribution: Hokkaidō (KURODA & KINOSHITA, 1951); Bering Sea.
- Habitat: 500-700 m., mud.

G2762 *B. cnismatum chibanum* KURODA, 1964-b

Yume-bai

- Type locality: off Chōshi (Chiba prefecture, central Honshū), 200 m., sand.
- Distribution: recorded only from type locality.

G2763 *B. pemphigus pemphigus* DALL, 1907-c

Hada-are-bai

- Type locality: USFC sta. 4797, off Dalnoi point, Kamchatka peninsula; 682 fms.
- Distribution: Japan (HABE & ITŌ, 1965); Sakhalin, Okhotsk Sea, Bering Sea.
- Habitat: 500-1500 m., mud.

G2764 *B. pemphigus major* DALL, 1919-c

Hoso-suji-hada-are-bai

- Type locality: USFC sta. 3643, southeast coast of Kamchatka.
- Distribution: Hokkaidō (off Kitami) and northwards, OP; Okhotsk Sea.
- Habitat: 100-200 m., mud.

G2765 *B. bombycinum* DALL, 1907-c

(= *B. pemphigum* (*sic*) *sensu* HABE & ITŌ, 1965)  
Usu-kawa-bai (= Donguri-bai)

- Type locality: USFC sta. 5067, east coast of Sakhalin; 29 fms.
- Distribution: Suruga bay and northwards, Hokkaidō, P10; Sakhalin, Okhotsk Sea.
- Habitat: 50-700 m., sandy mud.

G2766 *B. rausanum* SHIKAMA, 1957-a

Rausu-bai

- Type locality: off Seseki, Rausu district, northeastern Hokkaidō.
- Distribution: off eastern Hokkaidō, OP.
- Habitat: 150-300 m., mud.

G2767 *B. rondinum* DALL, 1919-c

Kinuhada-bai

- Type locality: USFC sta. 2853, off Alaska peninsula, Alaska; 159 fms.
- Distribution: Okhotsk Sea; off Sakhalin, Bering Sea.
- Habitat: 100-400 m., mud.

G2768 *B. ochotensis ochotensis* (MIDDENDORFF, 1848)

(= *B. ochotensis timessa* GOLIKOV, 1980)

Okuhotsuku-bai

- Type locality: Ohkhotsk Sea.
- Distribution: northeastern Hokkaidō, P10, OP, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J6), Okhotsk Sea; Sakhalin, Bering Sea, Arctic Ocean.
- Habitat: subtidal to 50 m., rocks and gravel.
- Original genus: *Tritonium* (*Buccinum*).

G2769 *B. ochotensis declivis* HABE & ITŌ, 1976

Tōgata-bai (= Tsumugata-ezo-bai)

- Type locality: off Wakkanai, northwestern Hokkaidō; 20-65 m.
- Distribution: northern Japan Sea (Musashi sea mount), Hokkaidō; Sakhalin.
- Habitat: 20-100 m., mud.

G2770 *B. limnoideum* DALL, 1907-c

Menkoi-bai

- Type locality: USFC sta. 4808, off Hakodate, Hokkaidō; 48 fms.
- Distribution: Hokkaidō (off Hakodate; Okushiri island; off Matsumae).
- Habitat: 100-600 m., mud.

G2771 *B. polaris polaris* GRAY, 1839

(= *B. polare* (*sic*) *mirandum sensu* HABE & ITŌ, 1965)

Ko-ezo-bai

- Type locality: Icy Cape (near Wainwright, Alaska; Arctic Ocean).
- Distribution: northeastern Honshū (Miyagi prefecture) and northwards, Hokkaidō, P8-P10, OP, Kuril islands; Sakhalin, Alaska.
- Habitat: subtidal, rocks.

G2772 *B. polaris simplex* (MIDDENDORFF, 1848)

- Type locality: Shantar island, Okhotsk Sea.
- Distribution: Hokkaidō (KURODA & KINOSHITA, 1951), Okhotsk Sea; Sakhalin.
- Original genus: *Tritonium* (*Buccinum*).

G2773 *B. polaris mirandum* E. A. SMITH, 1875

Hime-ezo-bai

- Type locality: 'East Yesso' (eastern Hokkaidō), 11 fms.
- Distribution: southeastern Hokkaidō and northwards (Akkeshi; Nemuro; Hidaka KURODA, 1935-a), P10, OP, Kuril islands; Sakhalin.
- Habitat: subtidal, rocks.

G2774 *B. polaris schrenckii* VERKRÜZEN, 1882

Maru-ezo-bai

- Type locality: 'Golf der Geduld, Sachalin' (Terpeniya bay, eastern Sakhalin).
- Distribution: Hokkaidō and northwards, Kuril islands; Sakhalin.
- Habitat: subtidal, rocks.

G2775 *B. hosoyai* HABE & ITŌ, 1965-b

Hina-ezo-bai

- Type locality: off Izu-Ōshima island, northern Izu islands, central Honshū.
- Distribution: Sagami bay, Izu islands (off Izu-Ōshima) to northeastern Honshū.
- Habitat: 200-300 m., sandy mud.

G2776 *B. felis felis* (OKUTANI, 1964-b)

Chigo-bai

- Type locality: 'Sōyō-Maru' sta. B3, 10.5 miles off Hachijō island, Izu islands: 33° 00.5' N., 140° 03.5' E., 510 m.
- Distribution: Kashima-nada (off Ibaraki prefecture); type locality.
- Habitat: 400-600 m., sand.
- Original genus: *Latisipho*.

G2777 *B. felis shikamai* HABE & ITŌ, 1965-b

Shikama-bai

- Type locality: Kashima-nada, off Ibaraki prefecture (central Honshū); ± 200 m.
- Distribution: off Chōshi (Chiba prefecture, central Honshū), Kashima-nada.
- Habitat: 200-300 m., sand.

G2778 *B. picturatum* DALL, 1877-b

• Type locality: Kyska harbour, Aleutian islands.

- Distribution: Hokkaidō (Akkeshi KURODA, 1935-a) and northwards, Kuril islands, P10, OP; Aleutian islands, Alaska.

G2779 *B. simulatum* DALL, 1907-c

Kasuri-bai

- Type locality: USFC sta. 4779, Petrel bank, Bering Sea;

54 fms.

- Distribution: Hokkaidō (Akkeshi KURODA, 1935-a) and northwards, Kuril islands, P10, OP; Sakhalin, Okhotsk Sea, Bering Sea.
- Habitat: 100-200 m., mud.

G2780 *B. chishimanum chishimanum* PILSBRY, 1904-a  
(= *B. percrassum sensu* HABE, 1964; GOLIKOV, 1980)  
Chishima-bai

- Type locality: 'Etoro, Chishima' (Etorofu, Kuril islands).
- Distribution: eastern Hokkaidō (off Shizunai) and northwards, Kuril islands; Sakhalin, Bering Sea, P10, OP.
- Habitat: subtidal, rocks.

G2781 *B. chishimanum nux* HABE & ITŌ, 1965-b  
Urizane-bai (= Urizane-ezo-bai)

- Type locality: Kuril islands.
- Distribution: Kuril islands; Bering Sea.
- Habitat: subtidal, rocks.

G2782 *B. plectrum* STIMPSON, 1865-b  
Ō-une-ezo-bai (= Futo-une-ezo-bai)

- Type locality: Kuril islands.
- Distribution: Kuril islands; Sakhalin, Kamchatka peninsula, Bering Sea.

G2783 *B. subreticulatum* HABE & ITŌ, 1965-b  
Kagome-ezo-bai

- Type locality: Okhotsk Sea off western Kamchatka peninsula.
- Distribution: eastern Hokkaidō and northwards, Kuril islands; Sakhalin, Okhotsk Sea.

G2784 *B. baerii baerii* (MIDDENDORFF, 1848)  
(= *Volutharpa morchiana sensu* FISCHER, 1859 non DUNKER, 1858)

Koshitaka-chishima-bai

- Type locality: 'Das Behrings-Eismeer' (Bering Sea).
- Distribution: Hokkaidō (Nemuro KURODA, 1935-a), Kuril islands; Bering Sea.
- Original genus: *Tritonium* (*Fusus*).

G2785 *B. baerii polium* DALL, 1907-c  
Aniwa-shiwa-ezo-bai

- Type locality: USFC stas. 5011 & 5013, Aniwa bay, Sakhalin; 42 fms.
- Distribution: Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J6), Hokkaidō, P10; off Sakhalin.
- Habitat: 50-200 m., sandy mud.

G2786 *B. epifragilum* CHIBA, 1983-c  
(= *B. textum* CHIBA, 1983 non GMELIN, 1791)

- Type locality: southern Okhotsk Sea.
- Distribution: recorded only from type locality.

G2787 *B. fukureum* HABE & ITŌ, 1976  
Fukure-ezo-bai

- Type locality: off Naka-Shiretoko, (cape Aniwa, southeastern Aniwa bay, southern Sakhalin): 45° 50.0' N., 143° 41.0' E., 175 m.
- Distribution: Okhotsk Sea; off Sakhalin.

G2788 *B. unuscarinatum* CHIBA, 1981-d  
Hitokado-ezo-bai

- Type locality: near Sakhalin, Okhotsk Sea.
- Distribution: southeastern Sakhalin, Okhotsk Sea.

G2789 *B. midori* HABE & ITŌ, 1965-b  
Midori-shiwa-ezo-bai

- Type locality: Okhotsk Sea.
- Distribution: Okhotsk Sea, Kamchatka peninsula, Bering Sea.

G2790 *B. oedematum* DALL, 1907-c  
Ō-shiwa-ezo-bai

- Type locality: USFC sta. 3502, near Pribilof islands, Bering Sea; 368 fms.
- Distribution: Hokkaidō and northwards, P10, OP; Bering Sea, Kamchatka peninsula, Alaska, northwestern USA.
- Habitat: 200-800 m., sandy mud.

G2791 *B. maehirai* CHIBA, 1980-c  
Maehira-ezo-bai

- Type locality: off Kushiro, Hokkaidō, 300-400 m.
- Distribution: recorded only from type locality.

G2792 *B. longifiliare* CHIBA, 1983-c  
(= *B. scalare* CHIBA, 1983 non GMELIN, 1791, nec RÖDING, 1798, nec G. O. SARS, 1878)

- Type locality: off Kushiro, Hokkaidō.
- Distribution: recorded only from type locality.

G2793 *B. bayani* (JOUSSEAUME, 1883)  
(= *B. aniwanum* DALL, 1907)

- Type locality: Japan Sea off Korean peninsula; 42-406 fms.
- Distribution: northeastern Hokkaidō and northwards, P8-P10, OP, Okhotsk Sea, Japan Sea (Noto peninsula KURODA, 1935-a; J3-J6); continental Japan Sea coast from Korea to Primoriye region (ARZAMASTSEV, 1997), Sakhalin, Bering Sea.
- Habitat: 100-1000 m., mud.
- Original genus: *Tritonium*.

**Notes:** Noppo-bai is a variant of this species from off Okushiri island, Hokkaidō; Kaga-bai (= Mo-bai) is a possibly a separate species (Japan Sea off Tajima and northwards, J2-J3; 100-1000 m., mud).

G2794 *B. sensumaruae* KOSUGE & ISHIYAMA, 1971  
Akita-bai

- Type locality: off Tobishima, Yamagata prefecture (northern Honshū, Japan Sea): 39° 08.2' N., 138° 48.0' E., 300 m.

- Distribution: recorded only from type locality.
- Habitat: 100-650 m., mud.

G2795 *B. terebriforme* **HABE & ITÔ, 1980-a**

Takenoko-bai

- Type locality: Gentatsu-se (shoal), off Mikuriya, Fukui prefecture (central Honshū, Japan Sea); 300-350 m.
- Distribution: type locality; Bering Sea (WATANABE & NARUKE, 1994).

G2796 *B. osagawai* **HABE & ITÔ, 1968-a**

Osagawa-bai

- Type locality: off Rausu, Hokkaidō; 170 fms.
- Distribution: eastern Hokkaidō and northwards, Kuril islands; Okhotsk Sea.
- Habitat: 200-300 m., mud.

G2797 *B. miyauchii* **AZUMA, 1972-a**

Miyauchi-bai

- Type locality: off Naka-Shiretoko (cape Aniwa, southeastern Aniwa bay, Sakhalin); 120 m.
- Distribution: Kuril islands; Sakhalin, northwestern Okhotsk Sea, Kamchatka peninsula.
- Habitat: 100-300 m., mud.

G2798 *B. striatissimum* **SOWERBY III, 1899**

Etchū-bai

- Type locality: 'off Tango' (Tango peninsula, northern Kyōto prefecture, Japan Sea).
- Distribution: western and central Japan Sea (off Yamaguchi prefecture to Oga peninsula); Korea.
- Habitat: 200-500 m., mud.

G2799 *B. tenuissimum* **KURODA in TERAMACHI, 1933**

Ō-etchū-bai

- Type locality: Toyama bay, Japan Sea off eastern Noto peninsula.
- Distribution: Kashima-nada (off Ibaraki prefecture OKUTANI, 1964-b), Japan Sea (off Tajima, Hyōgo prefecture K. ITÔ, 1967; Toyama bay); Korea.
- Habitat: 400-1000 m., mud.

G2800 *B. epistomium epistomium* **DALL, 1907-c**

Fuji-iro-bai

- Type locality: USFC sta. 4804, off Cape Rollin, Simushir island, Kuril islands; 229 fms.
- Distribution: southern Kuril islands (Etorofu KURODA, 1935-a) and northwards.
- Habitat: 300-500 m., mud.

G2801 *B. epistomium noguchii* **HABE & ITÔ, 1965-b**

Noguchi-ezo-bai

- Type locality: Enshū-nada (off central Honshū), ± 200 m.
- Distribution: recorded only from type locality.

G2802 *B. mizutani* **HABE & ITÔ, 1970**

Mizutani-bai

- Type locality: west off Shiretoko peninsula, eastern Hokkaidō; ± 500 m.
- Distribution: eastern Hokkaidō and northwards; Okhotsk Sea.
- Habitat: 300-500 m., mud.

G2803 *B. mysticum* **SHIKAMA, 1963-a**

Enshū-bai

- Type locality: off Miya, Aichi prefecture (central Honshū).
- Distribution: Enshū-nada (off Shizuoka prefecture) and westwards, Tosa bay (southern Shikoku).
- Habitat: 200-400 m., sandy mud.

G2804 *B. soyomaru* **ae OKUTANI, 1977-a**

(= *B. yoroianum* OZAKI *sensu* OKUTANI, 1966 *non* OZAKI, 1958)

Sōyō-bai

- Type locality: Sagami bay, central Honshū: 35° 01.1' N., 139° 18.2' E., 1380 m.
- Distribution: Sagami bay, Suruga bay.
- Habitat: 1300-1500 m., mud.

G2805 *B. koshikinum* **OKUTANI in OKUTANI, TAGAWA & HORIKAWA, 1988**

Koshiki-bai

- Type locality: off Koshiki islets, southwestern Kyūshū; 400 m.
- Distribution: off western Kyūshū, Tosa bay, Kumano-nada (off Mie prefecture).
- Habitat: 300-780 m., mud.

G2806 *B. kinukatsugi* **HABE & ITÔ, 1968-a**

(= *B. rossicum sensu* SHIKAMA, 1957 *non* DALL, 1907; *B. ferrugineum* HABE & ITÔ, 1965-b *non* BORN, 1780)

Kinu-katsugi-bai

- Type locality: off Rausu, Hokkaidō; 140 fms.
- Distribution: eastern Hokkaidō (off Rausu; off Abashiri), Kuril islands.
- Habitat: 200-300 m., mud.

G2807 *B. rossicum* **DALL, 1907-c**

Roshia-bai

- Type locality: USFC sta. 5011, Aniwa bay, Sakhalin, 42 fms.; and 'Tsugaru Strait, northern Japan'.
- Distribution: Tsugaru Strait and northwards, Kuril Islands (Etorofu KURODA, 1935-a), Sakhalin, Okhotsk Sea.
- Habitat: 50-150 m., mud.

G2808 *B. tsubai* **KURODA in TERAMACHI, 1933**

Tsu-bai

- Type locality: Toyama bay (Japan Sea, west off Noto peninsula); 200-450 fms.
- Distribution: Japan Sea (northern Yamaguchi prefecture and northwards; off Noto peninsula; off Sado island; off

Niigata prefecture; off Akita prefecture) .

- Habitat: 100-700 m., mud.

G2809 *B. takagawai* **HABE & ITÔ, 1972-a**

Takagawa-bai (= Takagawa-ezo-bai)

- Type locality: 'Kitashiretoko' (Cape Terpeniya, eastern Sakhalin); 47° 56' N., 144° 26' E., 102 m.
- Distribution: Okhotsk Sea; Sakhalin (Aniwa bay; off Cape Terpeniya).
- Habitat: 100-200 m., mud.

G2810 *B. kushiroensis* **HABE & ITÔ, 1976**

Kushiro-ezo-bai

- Type locality: off Kushiro, Hokkaidō; 300 m.
- Distribution: off northeastern Hokkaidō.

G2811 *B. kashimanum* **OKUTANI, 1964-b**

Kashima-nada-bai (= Kashima-bai)

- Type locality: 'Sōyō-Maru' sta. 17, Kashima-nada, off Ibaraki prefecture, central Honshū; 36° 19.7' N., 141° 09.0' E., 870 m.
- Distribution: Kashima-nada, northeastern Honshū (off Iwate prefecture), off Hokkaidō, P8-P10.
- Habitat: 500-2000 m., sandy mud.

G2812 *B. boucheti* **CHIBA, 1984-b**

(= *B. concinnum* CHIBA, 1980 *non* DILLWYN, 1817, *new* C. B. ADAMS, 1848)

Adeyaka-ezo-bai

- Type locality: east off tip of Kamchatka peninsula; 300-400 m.
- Distribution: southeastern Hokkaidō (Hidaka region) and northwards, Kuril islands, P10, OP; Kamchatka peninsula.
- Habitat: 300-400 m., mud.

G2813 *B. kawamurai* **HABE & ITÔ, 1965-b**

Hoso-suji-ezo-bai

- Type locality: off Shimane prefecture (western Honshū, Japan Sea); 200 m.
- Distribution: western Japan Sea (Shimane prefecture eastwards to Noto peninsula).
- Habitat: 100-300 m., mud.

G2814 *B. habui* **CHIBA, 1984-c**

Matsumae-bai (= Shingo-ezo-bai)

- Type locality: off Matsumae, southern Hokkaidō; 450-500 m.
- Distribution: off southern Hokkaidō.
- Habitat: 400-500 m., mud.

G2815 *B. crenatum* **GOLIKOV & GULBIN, 1977**

- Type locality: off Urup, Kuril islands; 40 m. (R. V. 'Krylatka').
- Distribution: recorded only from type locality.

G2816 *B. elegantum* **GOLIKOV & GULBIN, 1977**

- Type locality: off Simushir, Kuril islands; 10m. (R. V.

'Krylatka').

- Distribution: recorded only from type locality.

G2817 *B. tunicatum* **GOLIKOV & GULBIN, 1977**

• Type locality: off Urup, Kuril islands; 42 m. (R. V. 'Krylatka').

- Distribution: recorded only from type locality.

G2818 *B. pilosum* **GOLIKOV & GULBIN, 1978**

• Type locality: off Moneron island (southeastern Sakhalin, Japan Sea); 65-70 m. (R. V. 'Mayskoe').

- Distribution: recorded only from type locality.

**Notes:** *B. ciliatum* (FABRICIUS, 1780) was recorded from 'Hokkaidō to Kodiak Pen. in the Pacific; from Nova Scotia and W. Norway to Novaya Zemlya in the Atlantic' (GOLIKOV, 1995), but the present authors have not been able to confirm the distribution of this species in Japan.

□ Genus *Corneobuccinum* **GOLIKOV & GULBIN, 1977**

Type species: *Colus (Latisipho) lepidus* DALL, 1918 (= *Buccinum castaneum* DALL, 1877)

G2819 *C. castaneum* (**DALL, 1877-b**)

(= *Colus (Latisipho) lepidus* DALL, 1918)

Hisago-bai

- Type locality: Shumagin islands, Alaska; 20 fms.
- Distribution: Hokkaidō and northwards, Kuril islands, Okhotsk Sea; Bering Sea, Alaska.
- Habitat: subtidal to 50 m., rubble.
- Original genus: *Buccinum*.

□ Genus *Reticubuccinum* **HABE & ITÔ, 1980-b**

Type species: *Buccinum shiretokoensis* HABE & ITÔ, 1976 (o. d.)

G2820 *R. shiretokoensis* (**HABE & ITÔ, 1976-a**)

(= *Buccinum tenue rhodium sensu* SHIKAMA, 1957 *non* DALL, 1919)

Shiretoko-bai (= Oshare-bai)

- Type locality: off Shiretoko peninsula, eastern Hokkaidō; 500 m.
- Distribution: Hokkaidō (off Shiretoko; off Abashiri) and northwards, Kuril islands.
- Habitat: subtidal to 50 m., rocks.
- Original genus: *Buccinum*.

G2821 *R. acutispiratum* (**DALL, 1907-c**)

Tōdaka-bai

- Type locality: USFC sta. 4982, Japan Sea; 390 fms.
- Distribution: Japan Sea (off Tottori; off Fukui prefecture KURODA, 1935-a; Mishima), Hokkaidō (off Nemuro), Tosa bay.
- Habitat: 300-800 m., mud.
- Original genus: *Buccinum*.

G2822 *R. bulimoideum* (**DALL, 1907-c**)

Ko-musume-bai

- Type locality: USFC sta. 2853, southeast off Alaska peninsula; 159 fms.
- Distribution: Hokkaidō and northwards, Kuril islands; eastern Kamchatka peninsula, Alaska.
- Habitat: 300-900 m., mud.
- Original genus: *Buccinum*.

□ Genus *Volutharpa* FISCHER, 1856

Type species: *Bullia ampullacea* MIDDENDORFF, 1848 (Refs.: Habe & Ito, 1980-c)

G2823 *V. ampullacea ampullacea* (MIDDENDORFF, 1848)

(= *V. deshayesiana* FISCHER, 1856)

Hime-mosuso-gai

- Type locality: Shantar islands, western Okhotsk Sea.
- Distribution: northern Hokkaidō (Kushiro; Akkeshi; Wakkanai), Kuril islands; northern Korea, Sakhalin, Bering Sea.
- Habitat: 50-500 m., sandy mud.
- Original genus: *Bullia*.

G2824 *V. ampullacea morchiana* FISCHER, 1859

(= *V. ampullacea acuminata* DALL, 1871; *V. a. nipponkaiensis* HABE & ITŌ, 1980-c)

Naga-mosuso-gai

- Type locality: 'mers de la Sibérie' (Siberian seas).
- Distribution: southern Hokkaidō (off Iwashiro; Rebus island), Okhotsk Sea.
- Habitat: 50-150 m., sandy mud.

G2825 *V. ampullacea limnaeiformis* HABE & ITŌ, 1980-c

Usu-kawa-mosuso-gai

- Type locality: Musashi-tai (sea mount), northern Japan Sea; 35-60 m.
- Distribution: recorded only from type locality.

G2826 *V. ampullacea perryi* (JAY, 1856)

(= *V. paulucciana* TAPPARONE-CANEFRI, 1882; *V. fisheriana* A. ADAMS, 1870; *V. salmiana* ROLLE, 1892)

Mosuso-gai (= Perii-bora)

- Type locality: Tōkyō bay.
- Distribution: Seto inland sea, northern Ise bay (Mie prefecture), Iwate prefecture (Ōtsuchi bay TSUCHIDA, 1991), P6-P10, Japan Sea (J2-J6), Hokkaidō; southern Korea, Bering Sea.
- Habitat: 10-70 m., sandy mud.
- Original genus: *Bullia*.

G2827 *V. ainos* KURODA & KINOSHITA, 1956

Kuma-mosuso-gai

- Type locality: off Rausu, Hokkaidō; 120-130 fms.
- Distribution: northeastern Hokkaidō (off Rausu; off Abashiri).

- Habitat: 400-500 m., sandy mud.

□ Genus *Kanamarua* KURODA, 1951-a

Type species: *Colus (Aulacofusus) adonis* DALL, 1919 (o. d.)

G2828 *K. adonis adonis* (DALL, 1919)

Usu-tsumu-bai

- Type locality: USBF sta. 5053, Suruga bay, central Honshū; 503 fms.
- Distribution: Enshū-nada and northwards, Suruga bay, Sagami bay.
- Habitat: 200-1000 m., sand.
- Original genus: *Colus (Aulacofusus)*.

G2829 *K. adonis tazimai* KURODA, 1951-a

Kanamaru-usu-tsumu-bai

- Type locality: Tosa bay, southern Shikoku, 120-150 fms.
- Distribution: Tosa bay.
- Habitat: 200-400 m., mud.

□ Genus *Antemetula* REHDER, 1943

Type species: *Buccinum metula* HINDS, 1844 (o. d.)

Subgenus *Antemetula s. str.*

G2830 *An. (An.) elongata* (DALL, 1907)

Kinume-bora (= Kinume-bai)

- Type locality: USFC sta. 5071, south off Ōse-zaki (cape), Suruga bay (central Honshū); 35° 03.10' N., 135° 49.50' E., 57 fms.
- Distribution: Suruga bay, Tosa bay.
- Original genus: *Metula*.

G2831 *An. (An.) mitrella* (ADAMS & REEVE, 1849 in 1848-50)

Fudegata-kinume-bora

- Type locality: 'China Seas'
- Distribution: 'Pacific coast at 23° N.' (KURODA & HABE, 1952-a).
- Original genus: *Buccinum*.

Subgenus *Colubrarina* KURODA & HABE in KURODA *et al.*, 1971

Type species: *Antemetula (Colubrarina) metulina* KURODA *et al.*, 1971 (o. d.)

G2832 *An. (C.) metulina* KURODA & HABE in KURODA *et al.*, 1971

Kinume-seko-bora (= Kinume-seko-bai)

- Type locality: Sagami bay, central Honshū.
- Distribution: Sagami bay and southwards, off Kii peninsula, Tosa bay, Kyūshū (off Makurazaki); Philippines.
- Habitat: 90-200 m., fine sand.

□ Genus *Colubrarina* SCHUMACHER, 1817

Type species: *Colubrarina granulata* SCHUMACHER, 1817 (= *Buccinum muricatum* LIGHTFOOT, 1786)

(= *Epidromus* MÖRCH, 1852; *Obex* IREDALE, 1929)



G2833 *C. muricata* (LIGHTFOOT, 1786)

(= *Buccinum maculosum* GMELIN, 1791; *B. maculatum* RÖDING, 1798; *Triton obscura* REEVE, 1844)

Oboro-seko-bai (= Sugitani-seko-bai)

- Type locality: none designated.
- Distribution: Ogasawara islands (FUKUDA, 1994), Amami islands and southwards, ECP3-ECP2, P2; Philippines, tropical Indo-Pacific, Australia.
- Habitat: subtidal, rocks.
- Original genus: *Buccinum*.

G2834 *C. cumingii* (DOHRN, 1861)

(= *Triton clathrata* SOWERBY, 1833 non DESHAYES, 1830)

Himokake-seko-bai

- Type locality: 'In *Insulis Philippinis*' (Philippines).
- Distribution: Kii peninsula and southwards, P5, southern Kyūshū, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: subtidal, rubble.
- Original genus: *Epidromus*.

G2835 *C. castanea* KURODA & HABE, 1952-a

(= *Triton (Epidromus) comptus* SOWERBY II, 1874 non A. ADAMS, 1854; *C. fantomei* GARRARD, 1961)

Seko-bai (= Minami-no-seko-bai)

- Type locality: 'Hong Kong' (*T. comptus*).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Australia.
- Habitat: 10-30 m., rocks.

G2836 *C. soverbii* (REEVE, 1844 in 1843-65)

Arare-seko-bai (= Kazari-seko-bai)

- Type locality: Galapagos islands; 6 fms., sandy mud (possibly erroneous).
- Distribution: off southern Kii peninsula and southwards, P5, ECP3-ECP2, P2; Philippines.
- Habitat: 50-100 m., rocks.
- Original genus: *Triton*.

G2837 *C. tortuosa* (REEVE, 1844 in 1843-65)

(= '*C. distorta* SCHUBERT & WAGNER non LAMARCK' *sensu* ABBOTT & DANCE, 1982)

Nejire-seko-bai

- Type locality: island of Burias, Philippines; under stones at low water.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific, Australia.
- Habitat: subtidal on coral reefs.
- Original genus: *Triton*.

G2838 *C. nitidula* (SOWERBY I, 1833)

Migaki-seko-bai

- Type locality: '*ad Insulam Annaan*. Found on the reefs'. (Annaa island, Tuamotu Archipelago).
- Distribution: Kii peninsula and southwards, P5, southern

Kyūshū, ECP4-ECP2, P2; Philippines, Indo-Pacific, Australia.

- Habitat: subtidal to 50 m., rocks and coral reefs.
- Original genus: *Triton*.

**Notes:** *Epidromus reticosa* A. ADAMS, 1870-b (Type locality: 'Japan') has been cited from 'Japan' (Y. HIRASE, 1907; KURODA & HABE, 1952-a) but the present authors have been unable to confirm the distribution of this species.

Family COLUMBELLIDAE SWAINSON, 1840

Subfamily COLUMBELLINAE SWAINSON, 1840

□ Genus *Columbella* LAMARCK, 1799

Type species: *Voluta mercatoria* LINNAEUS, 1758 (= *Pyrene* RÖDING, 1799 *auct. non* RÖDING, 1798; *Columbellarius* DUMÉRIL, 1806; *Columbus* MONTFORT, 1810; *Peristera* RAFINESQUE, 1815; *Colombella sensu* DUCLOS, 1840 *err.*; *Pterygia* WENZ, 1941 *non* RÖDING, 1798)

G2839 *C. decorata* GOULD, 1860 in 1859-61

(= *C. decolor* GOULD *sensu* KURODA, 1960)

- Type locality: 'Loo Choo' (Okinawa).
- Distribution: recorded only from type locality.

□ Genus *Euplica* DALL, 1889

Type species: '*Columbella turturina* DUCLOS' (o. d.; = *Columbella turturina* LAMARCK, 1822)

G2840 *E. turturina* (LAMARCK, 1822 in 1815-22)

(= *Columbella palumbina* GOULD, 1845; *C. sandwichensis* PEASE, 1861)

Maru-futokoro

- Type locality: none designated.
- Distribution: Ogasawara islands (FUKUDA, 1994), Bōsō peninsula and southwards, P7-P5, southern Kyūshū, ECP4-ECP2, P2; Philippines, Australia, western Pacific.
- Habitat: intertidal to 20 m., rubble.
- Original genus: '*Colombella*'.

G2841 *E. borealis* (PILSBRY, 1904-b)

Hime-maru-futokoro

- Type locality: Hachijō island (Izu islands).
- Distribution: Ogasawara islands (FUKUDA, 1994), southern Izu islands, Kii peninsula, P6-P5, ECP4-ECP2.
- Habitat: intertidal among rocks in seaweed.
- Original genus: *Columbella* (as ssp. of *C. turturina*).

G2841 *E. deshayesi* (CROSSE, 1859)

(= *Columbella anceps* HERVIER, 1899)

Heshage-futokoro

- Type locality: '*Habitat in Oceania?*'
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Australia, southern Pacific.
- Habitat: intertidal to 20 m., rubble.
- Original genus: *Columbella*.

G2843 *E. varians* (SOWERBY I, 1832)

(= *Columbella nana* DUCLOS, 1840; *C. daliola* DUCLOS, 1840; *C. paecila* SOWERBY II, 1844; *C. pacifica* GASKOIN, 1852; *C. clarescens*, *lucescens*, *maculifera*, *fulvescens*, *scalaris* and *persignata*, all HERVIER, 1899)

Chijimi-futokoro

- Type locality: 'Lord Hood's island' (probably Marutea, 21° 30' S., 135° 33' W.), Pacific Ocean.
- Distribution: Ogasawara islands (FUKUDA, 1994), Izu islands and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, tropical Pacific.
- Habitat: subtidal, in seaweed among rocks.
- Original genus: *Columbella*.

G2844 *E. scripta* LAMARCK, 1822 in 1815-22

(= *Columbella versicolor* SOWERBY, 1832; *C. coronata* DUCLOS, 1835; *C. athadona* DUCLOS, 1840; *C. tigrina* DUCLOS, 1840; *C. araneosa* KIENER, 1840; *C. bidentata* MENKE, 1843; *C. ouveensis* HERVIER, 1899; *C. hebridarum* HERVIER, 1899)

Futokoro-gai

- Type locality: none designated.
- Distribution: Ogasawara islands (FUKUDA, 1994), Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), ECP4-ECP2, P2; Philippines, Korea, Australia, western Pacific.
- Habitat: intertidal to 20 m., on seaweed among rocks and gravel.
- Original genus: *Columbella*.

G2845 *E. ionida* (DUCLOS, 1840 in 1835-40)

(= *Columbella amirantium* E. A. SMITH, 1884; *E. liocyma* PILSBRY, 1904)

Beni-shiwa-matsumushi

- Type locality: none designated.
- Distribution: Ogasawara islands (FUKUDA, 1994), Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2.
- Habitat: intertidal on seaweed among rubble.
- Original genus: *Columbella*.

□ Genus *Pictocolumbella* HABE, 1945

Type species: *Columbella fulgurans* LAMARCK, 1822 (mt.; = *Pyrene ocellata* LINK, 1807)

G2846 *P. ocellata* (LINK, 1807 in 1806-08)

(= *Columbella fulgurans* LAMARCK, 1822 in 1815-22; *C. punctata* LAMARCK, 1822 in 1815-22 non BRUGUIÈRE, 1789 in 1789-1816; *C. fuliginosa* DUPUIS, 1931)

Misora-futokoro

- Type locality: none designated.
- Distribution: Ogasawara islands and southwards, P2; Philippines, Australia, tropical Pacific.
- Habitat: intertidal, rocks.

- Original genus: *Pyrene*.

Subfamily PYRENINAE SUTER, 1909

□ Genus *Pyrene* RÖDING, 1798

Type species: *Pyrene rhombiferum* RÖDING, 1798 (= *Buccinum punctata* BRUGUIÈRE, 1792 in 1789-1816) (= *Aidone* H. & A. ADAMS, 1853-58; *Conoidea* SWAINSON, 1840; *Cionella* SWAINSON, 1847; *Brachelixella* SACCO, 1890; *Thiarinella* SACCO, 1890)

G2847 *P. punctata* (BRUGUIÈRE, 1792 in 1789-1816)

(= *Buccinum discors* GMELIN, 1791; *B. rhombiferum* RÖDING, 1798; *Columbella torva* DILLWYN, 1817; *C. semipunctata* LAMARCK, 1822 in 1815-22)

Tamoto-gai

- Type locality: 'sur la cote Est de l'Afrique' (east Africa).
- Distribution: Kii peninsula and southwards, P5, Japan Sea (Yamaguchi prefecture FUKUDA & FUKUDA, 1990; J1), northwestern Kyūshū, EC5, ECP4-ECP2, P2; Philippines, Australia, Indo-Pacific.
- Habitat: intertidal on seaweed among rocks.
- Original genus: *Buccinum*.

G2848 *P. flava* (BRUGUIÈRE, 1789 in 1789-1816)

(= *Columbella tringa* DUCLOS, 1840; *C. flavida* LAMARCK, 1822 in 1815-22; *C. obtusa* SOWERBY I, 1832; *C. undata sensu* DUCLOS, 1840 non SOWERBY I, 1832; *C. lugubris* KIENER, 1841; *C. ouveana* HERVIER, 1899)

Mushi-ebi (= Tamoto-gai-modoki)

- Type locality: none designated.
- Distribution: Ogasawara islands, Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J3-J1), EC5, P2; Philippines, Korea, Indo-Pacific.
- Habitat: intertidal to 20 m., on seaweed among rocks.
- Original genus: *Buccinum*.

G2849 *P. testudinaria testudinaria* (LINK, 1807)

(= *Columbella pardalina* LAMARCK, 1822 in 1815-22; *C. vulpecula* SOWERBY II, 1844; *C. sagera* REEVE, 1858; *C. latescens* SOUVERBIE, 1866; *C. elongatula*, *laxa*, *nigrescens*, *minor*, *bifasciata*, *fulgurata*, *crocea*, *picturata*, *lanceolata* and *sublatescens*, all HERVIER, 1899; *P. nigropardalis* HABE & KOSUGE, 1966)

Obi-nina

- Type locality: none designated.
- Distribution: Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; Philippines, Australia, tropical Pacific.
- Habitat: coral reefs.
- Original genus: *Columbella*.

G2850 *P. testudinaria tylerae* (GRAY in GRIFFITH & PIDGEON, 1834)

(= *Columbella tyleri* auct.)

Matsumushi-gai (= Suji-nina)

- Type locality: none designated.
  - Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea, Indo-Pacific.
  - Habitat: intertidal to 20 m.
  - Original genus: *Columbella*.
- G2851 *P. testudinaria japonica* (REEVE, 1858 in 1843-65)  
Shima-matsumushi
- Type locality: 'Japan'.
  - Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5.
  - Habitat: intertidal to 20 m.
  - Original genus: *Columbella*.
- G2852 *P. testudinaria subcibraria* (PILSBRY, 1905)  
Hime-matsumushi (= Ogasawara-matsumushi)
- Type locality: Hahajima, Ogasawara islands.
  - Distribution: Ogasawara islands, P11; central Pacific.
  - Original genus: *Columbella* (as ssp. of *C. pardalina*).
- G2853 *P. exima* (REEVE, 1859 in 1843-65)
- Type locality: none designated.
  - Distribution: 'Pacific coast, 6°-29° N.' (KURODA & HABE, 1952-a).
  - Original genus: *Columbella*.
- G2854 *P. minuscula* (GOULD, 1860 in 1859-60)
- Type locality: 'Ousima' (Amami Ōshima).
  - Distribution: 'Pacific coast, 29° N.' (KURODA & HABE, 1952-a).
  - Original genus: *Columbella* (*Anachis*).
- G2854-1 *P. ocellatula* (HERVIER, 1899)
- Type locality: 'Insula Lifou' (Lifu, Loyalty islands, New Caledonia).
  - Distribution: 'Pacific Coast, 0-29° N.' (KURODA & HABE, 1952-a); New Caledonia.
  - Original genus: *Columbella*.
- G2855 *P. albinodulosa ogasawarana* (PILSBRY, 1904-b)  
Shiro-matsumushi
- Type locality: Hahajima, Ogasawara islands.
  - Distribution: Ogasawara islands (FUKUDA, 1994), 'Pacific coast 27° N.' (KURODA & HABE, 1952-a).
  - Original genus: *Columbella*.
- G2856 *P. purpurea* (H. ADAMS, 1873)
- Type locality: New Hebrides, eastern Papua New Guinea.
  - Distribution: 'Pacific coast, 0°-28° N.' (KURODA & HABE, 1952-a).
  - Original genus: *Zafra*.

□ Genus *Mitrella* RISSO, 1826

Type species: *Mitrella flaminea* RISSO, 1826 (s. d. COX, 1927; = *Murex scriptus* LINNAEUS, 1758)

(= *Mitsella* RISSO, 1859 err.; *Angulatomitrella* SACCO, 1890; *Arcuatomitrella* SACCO, 1890)

G2857 *M. bicincta* (GOULD, 1860 in 1859-60)

(= *Nassa varians* DUNKER, 1860; *Columbella araneosa* GOULD, 1860; *C. lineolata* GOULD, 1860 non KIENER, 1840; *C. dunkeri* TRYON, 1883)

Mugi-gai

- Type locality: Hong Kong.
- Distribution: Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea, China, Indo-Pacific.
- Habitat: intertidal to 20 m., on seaweed among rubble.
- Original genus: *Columbella*.

G2858 *M. tenuis tenuis* (GASKOIN, 1851)

(= *Amycla burchardti* DUNKER, 1877 corr. to *burchardti* DUNKER, 1882)

Kōdaka-matsumushi (= Ezo-matsumushi)

- Type locality: none designated.
- Distribution: Suruga bay and northwards, Iwate prefecture (Ōtsuchi bay TSUCHIDA, 1991), P6-P10, EC5, Japan Sea (J1-J6), OP, Kuril islands; Korea, Sakhalin, Primoriye region (Japan Sea coast of Russia), Kamchatka peninsula.
- Habitat: intertidal to 20 m., in coarse sand and stones.
- Original genus: *Columbella*.

G2859 *M. tenuis anachisoides* NOMURA & NIINO, 1940

Une-matsumushi

- Type locality: entrance to Wakasa bay, central Honshū (Japan Sea).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5.
- Habitat: 30-100 m., coarse sand and stones.

**Note:** the Japanese name Kukuri-mugi-gai refers to *Pyrene* (*Astyris*) *constricta* KURODA, 1928-c (p. 62, no. 760) *nom. nud.*; Saitō-mugi-gai refers to *Mitrella saitoi*, a Kuroda MS name.

G2860 *M. livescens* (REEVE, 1859 in 1843-65)

Murasaki-mugi-gai

- Type locality: Island of Luzon, Philippines.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines.
- Habitat: intertidal, coarse sand and stones.
- Original genus: *Columbella*.

G2861 *M. celinae* KOSUGE, 1980-c

- Type locality: South China Sea.
- Distribution: P2; Taiwan and southwards, South China Sea, Philippines.

G2862 *M. nomurai* HABE, 1991-d

Nomura-mugi-gai

- Type locality: Amami Ōshima.
- Distribution: recorded only from type locality.

□ Genus *Sundamitrella* OOSTINGH, 1940

Type species: *Mitrella martini* OOSTINGH (o. d.)

G2863 *S. impolita* (SOWERBY II, 1844 in 1842-87)

Kamuro-gai

- Type locality: none designated; 'Japan, Dr. Siebold' on boards to which syntypes (BMNH 1982114) were originally fixed.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (J1), EC5, ECP4.
- Habitat: intertidal, rocks.
- Original genus: *Columbella*.

□ Genus *Sulcomitrella* HABE, 1958-f

Type species: *Mitrella (Sulcomitrella) monodonta* HABE, 1958 (mt.)

G2864 *S. monodonta* (HABE, 1958-f)

Kiba-mugi-gai

- Type locality: Tosa bay (Kōchi prefecture, southern Shikoku).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, western Kyūshū, ECP4.
- Habitat: 50-100 m., coarse sand and stones.
- Original genus: *Mitrella (Sulcomitrella)*.

G2865 *S. bicinctella* (YOKOYAMA, 1928)

Kijibiki-mugi-gai

- Type locality: Nihonmatsu, Takanabe district, Miyazaki prefecture, southeastern Kyūshū (fossil).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (off central Niigata prefecture, J3-J1), EC5, ECP4, East China Sea.
- Habitat: 50-250 m., fine sand.
- Original genus: *Columbella (Atilia)*.

G2866 *S. kanamaruana* (KURODA, 1953-b)

Kanamaru-mugi-gai

- Type locality: Tosa bay (southern Shikoku); 100 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, East China Sea.
- Habitat: 100-200m, sand.
- Original genus: *Mitrella*.

□ Genus *Pyreneola* IREDALE, 1919

Type species: *Columbella (Amycla) abyssicola* BRAZIER, 1877 (o. d.)

(= *Pyrenola sensu* VAUGHT, 1989 *err. pro -eola*)

G2867 *P. abyssicola* (BRAZIER, 1877-b)

Minami-kagerō-matsumushi

- Type locality: 'Percy Island No. 2, North - East Australia, 18 fathoms'.
- Distribution: southern Kyūshū and southwards, ECP4-

ECP2, P2; Philippines, New Guinea, northern Australia.

- Habitat: subtidal to 20 m., rocks, on seaweed.
- Original genus: *Columbella (Amycla)*.

G2868 *P. semipicta* (SOWERBY III, 1894-b)

Kagerō-matsumushi (= Kagerō-mugi-gai)

- Type locality: Hong Kong harbour, 40-60 ft.
- Distribution: Sagami bay and southwards, P6-P5, Japan Sea (Noto peninsula, J2-J1), EC5; southern China.
- Habitat: subtidal to 20 m., rocks, on seaweed.
- Original genus: *Columbella (Mitrella)*.

□ Genus *Pleurotomitrella* HABE, 1958-h

Type species: *Columbella pleurotomoides* PILSBRY, 1895 (o. d.)

G2869 *Pl. pleurotomoides* (PILSBRY, 1895-a)

(= *Columbella compta* LISCHKE, 1873 in 1868-73 non BRONN, 1832)

Kudamaki-matsumushi

- Type locality: 'Banda, Boshu, Japan' (Sakuta, Tateyama City, Bōsō peninsula, central Honshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5; Korea.
- Habitat: subtidal, rocks, on seaweed.
- Original genus: '*Columbella (Atilia?)*'

□ Genus *Zemitrella* FINLAY, 1926

Type species: *Lachesis sulcata* HUTTON, 1873 (o. d.)

G2870 *Z. cera* OKUTANI, 1964-b

Rō-iro-watazoko-mugi-gai

- Type locality: 'Sōyō-Maru' sta. b, 56 miles off Aogashima, Izu islands: 32° 20.0' N., 140° 55.5' E., 3150-3350 m.
- Distribution: Izu islands (off Bayonnaise rock, 1940-2020 m.; off Torishima, 1660-2280 m.; off Miyake island, 1080-1205 m. OKUTANI, 1966; 1968; type locality).

G2871 *Z. ? siligo* OKUTANI, 1964-b

Hoso-obi-watazoko-mugi-gai

- Type locality: 'Sōyō-Maru' sta. 118, Sagami bay, central Honshū: 35° 09.9' N., 139° 30.4' E., 700 m.
- Distribution: recorded only from type locality.

□ Genus *Anachis* H. & A. ADAMS, 1853 in 1853-58

Type species: *Columbella scalarina* SOWERBY I, 1832 (s. d. TATE, 1875)

(= *Ecostoanachis* SACCO, 1890)

G2872 *A. miser miser* (SOWERBY II, 1844 in 1842-87)

(= *Columbella zebra* WOOD, 1828 in 1818-28 non MÜLLER, 1774; *C. nigricostata* E. A. SMITH, 1879; *C. felina* HEDLEY, 1915; *miser auct.*)

Bosatsu-gai

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5,

Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2;  
Korea, Australia, western Pacific.

- Habitat: intertidal to 40 m., among seaweed on rocks.
- Original genus: *Columbella*.

G2973 *A. miser californica* (REEVE, 1859 in 1843-65)

Ō-bosatsu-gai

- Type locality: 'California' (error).
- Distribution: southern Kyūshū and southwards, ECP4-ECP2.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Columbella*.

G2874 *A. miser nigromaculata* (TOMLIN, 1915-b)

Kurofu-bosatsu-gai

- Type locality: 'Ōshima, Osumi' (Amami-Ōshima).
- Distribution: Amami Ōshima and southwards, Izu islands (Hachijō island), ECP3-ECP2, P2; tropical Pacific.
- Habitat: intertidal to 20 m., on seaweed among rocks.
- Original genus: *Columbella*.

G2875 *A. miser plicatospira* (SOWERBY III, 1915)

- Type locality: Japan.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2; Korea, Australia, western Pacific.
- Original genus: *Columbella*.

G2876 *A. miser polynyma* (PILSBRY, 1901-a)

(= '*Columbella misera* Sby' *sensu* DUNKER, 1882 *non* SOWERBY II, 1844; *C. japonica* MARTENS, 1897 *non* REEVE, 1858)

Shō-bosatsu-gai

- Type locality: none designated (DUNKER, 1882).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Wakasa bay, J2-J1), EC5.
- Habitat: intertidal on seaweed among rocks.
- Original genus: *Columbella*.

G2877 *A. troglodytes* (SOVERBIE in SOVERBIE & MONTROUZIER, 1866)

(= *Zafra ornata* PEASE, 1868; *Z. garretti* TRYON, 1833 *non* PEASE, 1860; *Columbella fulvastra* HERVIER, 1899; *Z. succinea* HERVIER, 1899; *Z. obesula* HERVIER, 1899) Sarasa-nomi-nina

- Type locality: Île d'Art, New Caledonia.
- Distribution: Suruga bay and southwards, P6-P5, northwestern Kyūshū, EC5, ECP4-ECP2, P2; Philippines, New Caledonia, Australia.
- Habitat: intertidal, rubble.
- Original genus: *Columbella*.

□ Genus *Clathranachis* KURODA & HABE, 1954-b

Type species: *Lachesis japonica* A. ADAMS, 1860 (o. d.) (= *Clathranachis* KURODA & HABE, 1952-a *nom. nud.*)

G2878 *C. japonica* (A. ADAMS, 1860-c)

(= *Lienardia vadososinuata* NOMURA & NIINO, 1940) Kagome-nuka-bora

- Type locality: 'off Mino-Sima' (Mishima, Japan Sea), 63 fms.
- Distribution: Ogasawara islands, Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea, southwestern Pacific.
- Habitat: intertidal to 100 m., coarse sand and stones.
- Original genus: *Lachesis*.

□ Genus *Zafra* A. ADAMS, 1860

Type species: *Zafra mitriformis* A. ADAMS, 1860 (mt.)

(= *Mitropsis* PEASE, 1868)

Subgenus *Zafra s. str.*

G2879 *Z. (Z.) mitriformis* A. ADAMS, 1860

(= *Columbella (Anachis) zonata* GOULD, 1860; *C. (Zafra) subvitrea* SMITH, 1879; *Z. valdicosta sensu* HABE, 1960) Nomi-nina-modoki (= Une-nomi-nina; Futo-une-nomi-nina)

- Type locality: 'Mino-Sima' (Mishima, Japan Sea), 63 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Sado island, J3-J1), EC5.
- Habitat: intertidal among seaweed on rocks.

G2880 *Z. (Z.) pumila* (DUNKER, 1860)

Nomi-nina

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: northeastern Honshū and southwards, P9-P5, Japan Sea (Sado island, J3-J1), EC5, ECP4-ECP2.
- Habitat: intertidal, among seaweed on rocks.
- Original genus: *Columbella*.

G2881 *Z. (Z.) sinensis* (SOWERBY III, 1894-b)

Keshi-matsumushi

- Type locality: Hong Kong harbour, 40-60 ft.
- Distribution: Tateyama bay (Bōsō peninsula TAMURA & OKUTANI, 1989) and southwards, P6-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2; China.
- Habitat: intertidal to 20 m., among seaweed on rocks.
- Original genus: *Columbella*.

G2881-1 *Z. (Z.) hahajimana* (PILSBRY, 1904-b)

Hahajima-nomi-nina (= Kasuri-keshi-matsumushi)

- Type locality: Hahajima, Ogasawara islands.
- Distribution: Izu peninsula, P6-P5, Ogasawara islands and westwards, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2.
- Habitat: intertidal on rocks.
- Original genus: *Columbella*.

G2882 *Z. (Z.) nanisca* (HERVIER, 1899)

(= *Columbella nana* DUNKER, 1871 *non* DUCLOS, 1840)

Hoso-shiwa-nomi-nina

- Type locality: '*Insulae Viti*' (Fiji).
- Distribution: Okinawa islands and southwards (KIRA, 1946); Fiji.
- Original genus: *Columbella* (*Anachis*).

G2882-1 **Z. (*Z.*) *dautzenbergi* (HERVIER, 1899)**

Une-nashi-nomi-nina

- Type locality: '*Insula Lifou*' (Lifu, Loyalty islands, New Caledonia).
- Distribution: Tateyama bay (Bōsō peninsula TAMURA & OKUTANI, 1989) and southwards, P6-P5, Japan Sea (Sado island, J3-J1), EC5, ECP4-ECP2.
- Habitat: intertidal to 20 m., rubble.
- Original genus: *Columbella* (*Anachis*).

Subgenus ***Mokumea* HABE, 1991-b**

Type species: *Columbella divaricata* PILSBRY, 1904 (o. d.)

G2883 **Z. (*M.*) *divaricata* (PILSBRY, 1904-b)**

(= *Columbella* (*Conoides*) *tringa* sensu IWAKAWA, 1919)

Mokume-matsumushi (= Mokume-nomi-nina)

- Type locality: 'Hirado, Hizen' (Hirado island, Nagasaki prefecture, Kyūshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Sado island, J3-J1), EC5.
- Habitat: intertidal to 20 m., among sand and seaweed.
- Original genus: *Columbella*.

G2884 **Z. (*M.*) *albomarginata* OKAMOTO & HABE, 1979**

Shiro-obi-mokume-matsumushi (= Shiro-obi-mokume-nina)

- Type locality: Hiro, Shikanoshima, Fukuoka City, Kyūshū.
- Distribution: Japan Sea (Oga peninsula and southwards), northern Kyūshū.
- Habitat: subtidal, sand.

G2885 **Z. (*M.*) *yukitai* HABE, 1991-b**

Futa-obi-mokume-nina

- Type locality: Tsuchihama, Amami-Ōshima.
- Distribution: recorded only from type locality.

□ Genus ***Zafrona* IREDALE, 1916**

Type species: *Columbella isomella* DUCLOS, 1840 (o. d.)

G2886 ***Zafrona isomella* (DUCLOS, 1840 in 1835-40)**

(= *Columbella nebulosa* GOULD, 1860)

Kagome-nomi-nina

- Type locality: none designated.
- Distribution: Okinawa islands and southwards, ECP3, P2; tropical Pacific.
- Habitat: intertidal, rocks.

- Original genus: *Columbella*.

G2887 ***Zafrona lifouana* (HERVIER, 1899)**

Samehada-mugi-gai

- Type locality: '*Insula Lifou*' (Lifu, Loyalty islands, New Caledonia).
- Distribution: Ogasawara islands (FUKUDA, 1994), Izu peninsula and westwards, P6-P5, EC5, ECP4-ECP2, P2.
- Habitat: subtidal, rocks.
- Original genus: *Columbella*.

G2888 ***Zafrona yuranensis* (NOMURA & ZINBO, 1940)**

Yura-tsubo

- Type locality: Yura, Yamagata prefecture, northern Honshū (Japan Sea).
- Distribution: type locality, Nagashima (eastern Kii peninsula, Mie prefecture).
- Original genus: *Bela* (in Conidae).

□ Genus ***Metanachis* THIELE, 1924**

Type species: *Columbella jaspidea* SOWERBY III, 1887 (o. d.; = *Columbella acleonta* DUCLOS, 1840)

G2889 ***M. acleonta* (DUCLOS, 1840 in 1835-40)**

(= *Columbella jaspidea* SOWERBY III, 1887)

Tsuma-beni-shiwa-matsumushi

- Distribution: Okinawa islands and southwards, ECP2, P2; tropical Pacific.
- Habitat: intertidal, rocks.
- Original genus: *Colombella* (*sic*).

G2890 ***M. calliope* (MELVILL, 1903)**

Ō-tsuma-beni-matsumushi

- Type locality: 'Bombay' (Mumbai, India).
- Distribution: Amami islands and southwards, ECP4-ECP2; tropical Pacific, Indian Ocean.
- Habitat: intertidal, rocks.
- Original genus: *Columbella* (*Mitrella*).

G2891 ***M. marquesa* (GASKOIN, 1851)**

(= *Columbella decolor* GOULD, 1860; *C. lineolata* GOULD, 1860 non KIENER, 1841; *C. sublaevis* MONTROUZIER, 1864; *C. gowllandi* BRAZIER, 1875; *C. marquesana* TRYON, 1883; *C. elongata* HERVIER, 1899 non PHILLIPPI, 1836)

Tsuma-beni-matsumushi

- Type locality: 'Marquesas'.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Australia, tropical Pacific.
- Habitat: intertidal, rocks.
- Original genus: *Columbella*.

G2892 ***M. moleculina* (DUCLOS, 1840 in 1835-40)**

Chibi-mugi-gai

- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2.

• Habitat: subtidal, rocks.

• Original genus: *Colombella* (*sic*).

□ Genus *Columbellopsis* BUCQUOY *et al.*, 1882

Type species: *Columbella lanceolata* SOWERBY I, 1832  
(= *Strombina* MEUSCHEN, 1852 non BRONN, 1849;  
*Indomitrella* OOSTINGH, 1940)

G2893 *C. puella* (SOWERBY II, 1844 in 1842-87)

(= *Columbella conspersa* GASKOIN, 1851; *Astyris baculus* REEVE, 1859; *C. sigaloessa* MELVILL & STANDEN, 1896; *C. diluta*, *intemerata*, *circulata*, *suspecta* all HERVIER, 1899; *Anachis brevis* SCHEPMAN, 1913 in 1908-13; *A. nodosa* SCHEPMAN, 1913 in 1908-13)

Konbō-matsumushi (= Fukure-shirage-gai)

• Type locality: 'Catbalonga' and 'Isle of Burias', Philippines.

• Distribution: Amami Ōshima and southwards, ECP3-ECP2, P2; Philippines, Australia, western Pacific, New Caledonia.

• Habitat: intertidal, rubble.

• Original genus: *Columbella*.

G2894 *C. hirundo* (GASKOIN, 1851)

Shajiku-matsumushi

• Type locality: none designated; 'per the Samarang'.

• Distribution: Amami islands and southwards, ECP3-ECP2, P2.

• Habitat: intertidal to 10 m., coarse sand and stones.

• Original genus: *Columbella*.

G2895 *C. lischkei* (E. A. SMITH, 1879-b)

(= *Columbella niveomarginata* E. A. SMITH, 1879-b)  
Shirage-gai (= Rishike-matsumushi)

• Type locality: north of Kyūshū: 33° 56' N., 130° 27' E., 30 fms.

• Distribution: Ogasawara islands (FUKUDA, 1994), Aomori prefecture and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2; Korea.

• Habitat: 10-100 m., coarse sand and stones.

• Original genus: *Columbella* (*Atilia*).

G2896 *C. yabei* (NOMURA, 1935)

(= *Columbella* (*Atilia*) *smithi* YOKOYAMA, 1922 non ANGAS, 1877; *Mitrella* (*Indomitrella*) *tokyoensis* KURODA & HABE, 1954-b)

Sumisu-shirage-gai

• Type locality: 700 m. east of Hakushaton, Shinchiku district, Taiwan (fossil).

• Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Seto inland sea, Japan Sea (Niigata prefecture, J3-J1), EC5, ECP4-ECP2.

• Habitat: ± 10 m., in landlocked bays, sand.

• Original genus: *Pyrene* (*Mitrella*).

G2897 *C. bella* (REEVE, 1859 in 1843-65)

(= *Columbella martensi* LISCHKE, 1871)

Marutensu-matsumushi

• Type locality: 'China'.

• Distribution: southern Hokkaidō and southwards, P10-P5, Seto inland sea, Japan Sea (Sado island, J3-J1), western Kyūshū (Ariake inland sea, EC5); Korea, China.

• Habitat: intertidal on soft mud in landlocked bays.

• Original genus: *Columbella*.

G2898 *C. conspersa* (GASKOIN, 1851)

• Type locality: none designated.

• Distribution: Okinawa (Makiminato KURODA, 1960), ECP3; Taiwan.

• Original genus: *Columbella*.

□ Genus *Aesopus* GOULD, 1860 in 1859-61

Type species: *Aesopus japonicus* GOULD, 1860 (mt.)

Subgenus *Aesopus s. str.*

G2899 *A. (A.) japonicus* GOULD, 1860 in 1859-61

Ko-hana-matsumushi

• Type locality: 'Kagosima Bay' (Kagoshima, southern Kyūshū), 'at 5 fathoms, sandy bottom'.

• Distribution: Ogasawara islands (FUKUDA, 1995), Kii peninsula and southwards, P5, EC5, ECP4-ECP2.

• Habitat: intertidal to 20 m., rocks.

Subgenus *Lavesopus* IREDALE, 1929

Type species: *Aesopus cumingi* var. *queenslandica* HEDLEY, 1913 (o. d.; = *C. spicula* DUCLOS, 1846)

G2900 *A. (L.) spiculum* (DUCLOS in CHENU, 1846)

(= *Columbella clausilia* DUCLOS in CHENU, 1846; *C. cumingii* REEVE, 1859; *Aesopus cumingi* (*sic*) var. *queenslandica* HEDLEY, 1913)

Hana-matsumushi

• Type locality: none designated.

• Distribution: Ogasawara islands (FUKUDA, 1994), Kii peninsula and southwards, P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2; Philippines, Australia, tropical Pacific.

• Habitat: intertidal to 20 m., rocks.

• Original genus: *Columbella*.

□ Genus *Parviterebra* PILSBRY, 1904-b

Type species: *Parviterebra paucivolvis* PILSBRY, 1904 (o. d.)

G2901 *P. paucivolvis* PILSBRY, 1904-b

Takenoko-modoki (= Naga-takenoko-modoki)

• Type locality: 'Yakujima, Osumi' (Yakushima, southern Kyūshū).

• Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2.

• Habitat: intertidal to 20 m., rubble.

□ Genus *Graphicomassa* IREDALE, 1929

Type species: '*Columbella*' *ligula* DUCLOS, 1840 (o. d.)

G2902 *G. ligula* (DUCLOS, 1840 in 1835-40)

(= *Columbella nivalis* HERVIER, 1899; *C. carnea* HERVIER, 1899)

Futokoro-matsumushi

- Distribution: western Japan Sea (Yamaguchi prefecture IKEDA & TADA, 1963), Okinawa islands and southwards, ECP2, P2; Philippines, Australia.
- Habitat: intertidal to 10 m., rocks.
- Original genus: *Colombella* (sic).

G2903 *G. hanleyi* (DUCLOS, 1840 in 1835-40)

(= *Columbella somnium* PILSBRY, 1904-b)

Yume-matsumushi

- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Colombella* (sic).

□ Genus *Pseudamycla* PACE, 1902

Type species: *Buccinum dermestoideum* LAMARCK, 1822

G2904 *P. rorida* (REEVE, 1859 in 1843-65)

Miyori-yofu-bai

- Type locality: 'Lord Hood's island' (probably Marutea, 21° 30' S., 135° 33' W.); 6 fms., in coral sand, on *Avicula margaritifera*.
- Distribution: Ogasawara islands (FUKUDA, 1994), Amami islands and southwards, ECP3-ECP2, P2; southeast Asia.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Columbella*.

G2905 *P. formosa* (GASKOIN, 1851)

Tomo-yofu-bai

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Columbella*.

□ Genus *Strombina* MÖRCH, 1852

Type species: *Columbella gibberula* SOWERBY I, 1832  
(= *Strombocolumbus* COSSMANN, 1901)

G2906 *S. pungens* (GOULD, 1860 in 1859-61)

Itokake-mugi-gai

- Type locality: Port Lloyd (now Futami harbour), Ogasawara islands.
- Distribution: Okinawa (Makiminato), Ogasawara islands.
- Original genus: *Columbella* (*Strombina*).

□ Genus *Astyris* H. & A. ADAMS, 1853

Type species: *Buccinum rosacea* GOULD, 1839

G2907 *A. kobai* (GOLIKOV & KUSAKIN, 1962)

Koba-matsumushi

- Type locality: Kuril islands.
- Distribution: southeastern Hokkaidō, P10, OP, Kuril islands.
- Habitat: intertidal to 50 m., coarse sand and stones.
- Original genus: *Mitrella*.

G2908 *A. amiantis* DALL, 1919

- Type locality: Kyska harbour, Aleutian islands; on beach.
- Distribution: Kuril islands; Alaska.
- Habitat: intertidal.

Family NASSARIIDAE IREDALE, 1916

(Refs.: Cernohorsky, 1984)

Subfamily NASSARIINAE IREDALE, 1916

□ Genus *Nassarius* DUMÉRIL, 1806

Type species: *Buccinum arcularia* LINNAEUS, 1758 (s. d. FRORIEP, 1806)

(= *Nassa* LAMARCK, 1799 non RÖDING, 1798; *Arcularia* LINK, 1807)

G2909 *N. arcularius* (LINNAEUS, 1758)

(= *Arcularia coronata* LINK, 1807 non BRUGUIÈRE, 1789 in 1789-1816; *N. obvelatum* DESHAYES in LABORDE, 1834; *N. rumphii* DESHAYES & EDWARDS, 1844 non GMELIN, 1791; *N. scalariformis* MÖRCH, 1852)  
Ori-ire-yofu-bai

- Type locality: none designated (LINNAEUS, 1758); '*ad Javam*' (Java, Indonesia, LINNAEUS, 1767).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, Indo-Pacific.
- Habitat: intertidal, fine sand.
- Original genus: *Buccinum*.

**Notes:** for discussion of this species see DODGE (1956 in 1952-59: 190).

G2910 *N. coronatus* (BRUGUIÈRE, 1792 in 1789-1816)

(= *N. bronni* PHILLIPI, 1849 non ANTON, 1838; *N. coronatus* var. *minor* DAUTZENBERG, 1923; *N. fasciolatus* (GRONOVIVUS) sensu S. HIRASE, 1934)  
Ibo-yofu-bai

- Type locality: 'Madagascar, mais il paroît qu'on la trouve aussi dans l'Océan Asiatique' (Madagascar, but apparently also in Asian seas).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, Indo-Pacific.
- Habitat: subtidal, fine sand.
- Original genus: *Buccinum*.

G2911 *N. sertulus* (A. ADAMS, 1852 in 1852-53)

- Type locality: Masbate, Philippines, on reef.
- Distribution: 'Pacific coast to 34° N.' (KURODA & HABE, 1952-a); Philippines.
- Original genus: *Nassa*.



□ Genus *Alectryon* MONTFORT, 1810 in 1808-10

Type species: *Buccinum papillosum* LINNAEUS, 1758 (o. d.)

(= *Alectryon* BERTHOLD in LATREILLE, 1827)

G2912 *A. papillosus* (LINNAEUS, 1758)

(= *Nassa papillosa* var. *seminuda* DAUTZENBERG, 1929)

Same-mushiro

- Type locality: 'in *O. Asiatico*' (Asian seas).
- Distribution: Kii peninsula and southwards, P5, southern Kyūshū, ECP4-ECP2, P2; Philippines, Australia, Indo-Pacific.
- Habitat: subtidal, fine sand.
- Original genus: *Buccinum*.

G2913 *A. glans glans* (LINNAEUS, 1758)

(= *Buccinum lineatum* RÖDING, 1798; *Nassa intermedia* DUNKER, 1866 non FORBES, 1844; *Nassarius suturalis dunkeri* SUTER, 1908; *A. glans nipponensis* KURODA & HABE in KURODA *et al.*, 1971)

Kinshi-bai (= Minami-kinshi-bai)

- Type locality: 'in *O. Asiatico*' (Asian seas).
- Distribution: western Japan Sea (Yamaguchi prefecture, J1), EC5, ECP4-ECP2, P2; Philippines, Australia, Indo-Pacific.
- Habitat: intertidal to 20 m., sandy mud.
- Original genus: *Buccinum*.

G2914 *A. glans suturale* (LAMARCK, 1822 in 1815-22)

Ibo-kinshi-bai

- Type locality: none designated.
- Distribution: Ogasawara islands and southwards, P11, ECP3-ECP2, P2; Philippines, Australia, tropical Pacific.
- Habitat: 10-20 m., sandy mud.
- Original genus: *Buccinum*.

□ Genus *Plicarcularia* THIELE, 1929

Type species: *Buccinum thersites* BRUGUIÈRE, 1792 in 1789-1816 (mt.; = *Buccinum pullus* LINNAEUS, 1758)

(= *Eione* RISSO, 1826; *Parcanassa* IREDALE, 1936; *Austronassaria* C. & J. LASERON, 1956; *Chelenassa* SHUTŌ, 1969; *Retiarcularia* SHUTŌ, 1969)

G2915 *P. pullus* (LINNAEUS, 1758)

(= *Buccinum thersites* BRUGUIÈRE, 1792 in 1789-1816; *Nassa dorsuosa* A. ADAMS, 1852; *Nassarius gracilis* PEASE, 1868; *Nassarius acypha* MARTENS, 1887)

Ō-kani-no-te-mushiro (= Kobushi-yofu-bai; Ko-ori-ire-yofu-bai; Futahoshi-kani-no-te-mushiro; Chū-kani-no-te-mushiro)

- Type locality: 'in *M. Mediterraneo*' (Mediterranean Sea; erroneous).
- Distribution: Kii peninsula and southwards, P5, southern Kyūshū, ECP4-ECP2, P2; Indo-Pacific.

- Habitat: intertidal among *Zostera* seaweed, in bays.
- Original genus: *Buccinum*.

G2916 *P. bellula* (A. ADAMS, 1852 in 1852-53)

(= *Nassa leptospira* A. ADAMS, 1852 in 1852-53)

Kani-no-te-mushiro

- Type locality: Catabalanga, island of Samar, Philippines; under stones, low water.
- Distribution: off Chōshi (Chiba prefecture), Kii peninsula and southwards, P5, southern Kyūshū, ECP4-ECP2, P2; Indo-Pacific.
- Habitat: intertidal among weed in bays.
- Original genus: *Nassa*.

G2917 *P. globulosus* (QUOY & GAIMARD, 1833 in 1832-35)

(= *Buccinum clathratum* KIENER, 1834 non BORN, 1778; *Pliarcularia (sic) gibbosuloidea* HABE & KOSUGE, 1966-b)

Kobu-mushiro (= Juzudama-mushiro)

- Type locality: 'habite l'île de Vanikoro' (Vanikoro island, Solomon islands).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
- Habitat: subtidal, sand.
- Original genus: *Buccinum*.

G2918 *P. onerata* (DESHAYES, 1863)

(= *Nassa obliqua* ROSSEAU, 1854 non KIENER, 1841)

Kinguchi-mushiro

- Type locality: Réunion island, Indian Ocean.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, tropical Indo-Pacific, Indian Ocean.
- Habitat: intertidal, mud.
- Original genus: *Nassa*.

G2919 *P. granifera* (KIENER, 1834 in 1834-80)

(= *Buccinum verrucosus* BRUGUIÈRE, 1798 nom. oblit.; *Nassa obliqua* HOMBRON & JACQUINOT, 1853 non KIENER, 1841; *N. perlata* MARRAT, 1880)

Shiro-arare-mushiro

- Type locality: 'les Indes-Orientales' (East Indies).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, tropical Indo-Pacific, central & western Pacific.
- Habitat: subtidal, sand among coral.
- Original genus: *Nassarius*.

□ Genus *Niotha* H. & A. ADAMS, 1853

Type species: *Nassa cumingii* A. ADAMS, 1852 (s. d.)

COSSMANN, 1901; = *Buccinum conoidalis* DESHAYES, 1832)

(= *Niotha sensu* BRAZIER, 1877, err.; *Tavaniotha* IREDALE, 1936)

G2920 *N. conoidalis* (DESHAYES, 1832)

(= *Nassa clathrata* LAMARCK, 1816 non BORN, 1778; *Buccinum gemmulatum* LAMARCK, 1822 in 1815-22 non WOOD, 1818; *Nassa variegata* A. ADAMS, 1852; *Nassa cumingii* A. ADAMS, 1852; *Nassa verrucosa* A. ADAMS, 1852; *Nassa ringens* REEVE, 1854 non MICHELOTTI, 1847; *Nassa rajaensis* MARTIN, 1895; *Nassa labordei* JOUSSEAUME *sensu* MARI, 1929; *Niotha comtessei* IREDALE, 1929)

Arare-gai (= Hon-arare-gai)

- Type locality: 'les mers de la Sonde' (seas around the Sunda islands, Indonesia).
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea (Ōsaka bay OKAMURA & KOJIMA, 1984), Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2; Philippines, Australia, western Pacific.
- Habitat: 10-100 m., sand.
- Original genus: *Buccinum*.

G2921 *N. albescens* (DUNKER, 1846-b)

(= *Nassa retecosa* A. ADAMS, 1852; *Nassa bicolor* ROUSSEAU, 1854; *Nassa adamsiana* MARRAT, 1880; *Nassa baguenai* MARI, 1934)

Awa-mushiro

- Type locality: 'Indiae occidentales' (East Indies).
- Distribution: Kii peninsula and southwards, P5, southern Kyūshū, ECP4-ECP2, P2; Philippines, Australia, tropical Pacific.
- Habitat: intertidal to 20 m., sand and coral.
- Original genus: *Buccinum*.

G2922 *N. splendidulus* (DUNKER, 1846-b)

(= *Nassa stigmaria* A. ADAMS, 1852; *Nassa ranida* A. ADAMS, 1852; *Nassa densigranata* REEVE, 1854; *Nassa nivosa* MARRAT, 1877; *Nassa praecallosa* MARRAT, 1877; *Nassa granulosa* MARRAT, 1880; *Nassarius* (*Niotha*) *conoidalis sensu* KURODA, 1928; *Niotha stigmaria ravidata sensu* HABE, 1964)

Kibi-mushiro

- Type locality: none designated.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, western Pacific.
- Habitat: 5-30 m., fine sand.
- Original genus: *Buccinum*.

G2923 *N. livescens* (PHILLIPI, 1849)

(= *Nassa sordida* A. ADAMS, 1852; *Nassa marginulata* REEVE, 1853 non LAMARCK, 1822 in 1815-22; *Nassa margaritifera* REEVE, 1853 non DUNKER, 1847; *Nassa deshayesii* ROUSSEAU, 1854; *Nassa oblonga* MARRAT, 1877 non SASSI, 1827, nec MÖRCH, 1852; *Nassa keenii* MARRAT, 1877; *Nassa lyraeformis* MARRAT, 1880; *Nassa quadrata* MARRAT, 1880 non CONRAD, 1830;

*Nassa provulgata* FISCHER, 1891; *Nassa granosocostata* SCHEPMAN, 1911 in 1908-13; *Nassarius fulleri* MACNEIL, 1960)

Mushiro-gai

- Type locality: Manila, Philippines.
- Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay TSUCHIDA, 1991) and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea, Indo-Pacific.
- Habitat: intertidal to 50 m., fine sand.
- Original genus: *Buccinum*.

G2924 *N. kieneri* (DESHAYES, 1863)

(= *Nassa secluza* FISCHER, 1891)

Taiwan-mushiro

- Type locality: Réunion island, Indian Ocean.
- Distribution: Yaeyama islands; Taiwan, Indo-Pacific, Indian Ocean.
- Habitat: intertidal, fine sand.
- Original genus: *Nassa*.

G2925 *N. nodifera* (POWYS in SOWERBY & POWYS, 1835)

(= *Nassa stolidata* A. ADAMS, 1852; *Nassa costata* A. ADAMS, 1852; *Nassa stoliczka* G. & H. NEVILL, 1874) Hime-ori-ire-mushiro (= Hime-ori-ire-yofu-bai)

• Type locality: 'ad Insulas Gallapagos et ad littora Panamae' (Galapagos islands and coast of Panama); erroneous. Redesignated 'Singapore, Malaysia' (CERNOHORSKY, 1984).

- Distribution: Amami islands and southwards, ECP3-ECP2, P2; 'India to Indonesia and Japan' (CERNOHORSKY, 1984).
- Habitat: intertidal to 30 m., sandy mud.
- Original genus: *Nassa*.

G2926 *N. acuticostata* (MONTROUZIER in SOUVERBIE & MONTROUZIER, 1864 in 1859-79)

Niyori-atsu-mushiro

- Type locality: Île d'Art, New Caledonia.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; New Caledonia, western Pacific.
- Habitat: intertidal, sand.
- Original genus: *Nassa*.

G2927 *N. semisulcata* (ROUSSEAU, 1854)

(= *Buccinum crassum* KOCH in PHILLIPI, 1849 non GMELIN, 1791; *Nassa bullata* MARRAT, 1877; *Nassarius* (*Phrontis*) *crassus sensu* KURODA, 1928; *Nassa percrassa* MARI, 1934; *Phrontis crassus sensu* HABE, 1964)

Atsu-mushiro

- Type locality: Solomon islands.
- Distribution: Kii peninsula and southwards, P5, southern

Kyūshū, ECP4-ECP2, P2; Philippines, Australia, Indo-Pacific.

- Habitat: intertidal, sand among rocks.
- Original genus: *Nassa*.

G2928 *N. delicata* (A. ADAMS, 1852 in 1852-53)

(= *Nassa nodicostata* A. ADAMS, 1852; *Nassa aclinus* MELVILL, 1918)

Yasagata-mushiro

- Type locality: Sorsogon, Albay, Luzon, Philippines; 6 fms., coarse sand.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, Australia, Indo-Pacific, Red Sea.
- Habitat: intertidal to subtidal, sand.
- Original genus: *Nassa*.

G2929 *N. distorta* (A. ADAMS, 1852 in 1852-53)

(= *Nassa monile* KIENER, 1834 non LINNAEUS, 1771; *Nassa lachrymosa* REEVE, 1853; '*Nassarius monilis* (*hepaticus* var)' sensu KURODA, 1941)

Nejihida-yofu-bai (= Katasuji-yofu-bai)

- Type locality: none designated (Cuming collection).
- Distribution: P2; Taiwan and southwards, Philippines, Australia, tropical Pacific.
- Habitat: intertidal, sandy mud.
- Original genus: *Nassa*.

G2930 *N. sinusigera* (A. ADAMS, 1852 in 1852-53)

(= *Nassa beata* GOULD, 1860; *Nassa fratercula* MARRAT, 1880 non DUNKER, 1860; *Nassa phoenicensis* PRESTON, 1916; *Nassa albina* THIELE, 1930; *Nassarius greyanus* SHUTŌ, 1969)

Kuchi-mizo-yofu-bai

- Type locality: Catalonga, Samar island, Philippines.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
- Habitat: intertidal to 10 m., mud.
- Original genus: *Nassa*.

G2931 *N. quadrasi* (HIDALGO, 1904 in 1904-5)

(= *Nassa gruneri* REEVE, 1853 non DUNKER, 1846)

Toge-mushiro

- Type locality: 'Isla Bohol.- Isla de Cebu.- Archipelago de Jolo' (Bohol and Cebu islands and Jolo islands, Philippines).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, Indo-Pacific.
- Habitat: subtidal, fine sand.
- Original genus: *Nassa*.

G2932 *N. echinata* (A. ADAMS, 1852 in 1852-53)

(= *Nassa alba* HIDALGO, 1904 non SAY, 1826)

Uni-mushiro

- Type locality: 'Galeo, Mindoro island, Philippines; 3 fms., sandy mud' (= ?Puerta Galera).

• Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, Australia, tropical Indo-Pacific.

- Habitat: subtidal, sand.
- Original genus: *Nassa*.

G2933 *N. gruneri* (DUNKER, 1846-b)

(= *Nassa acinosa* GOULD, 1850; *Nassa hispida* A. ADAMS, 1852; *Nassa fragum* ROUSSEAU, 1854; *Nassa jonkeri* K. MARTIN, 1883)

Arabori-mushiro

- Type locality: '*Insulae Philippinarum*' (Philippines).
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, tropical Indo-Pacific.
- Habitat: intertidal, sand.
- Original genus: *Buccinum*.

G2934 *N. fida* (REEVE, 1853 in 1843-65)

Ibo-mushiro

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; tropical Indo-Pacific.
- Habitat: intertidal, mud.
- Original genus: *Nassa*.

G2935 *N. cinctella* (GOULD, 1850 in 1846-50)

(= *Nassa geniculata* A. ADAMS, 1852; *Nassa parva* MARRAT, 1880)

Noshime-mushiro

- Type locality: 'Pacific Ocean'.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, central Pacific.
- Habitat: intertidal to 10 m., sandy mud.
- Original genus: *Nassa*.

G2936 *N. agapeta* (WATSON, 1882 in 1879-83)

(= *Nassa kempi* PRESTON, 1916)

Chibi-maru-mushiro

- Type locality: Levuka, Fiji; 12 fms.
- Distribution: southwestern Shikoku (off Cape Ashizuri); Amami islands (Kakeroma island); Madagascar, Andaman islands, Philippines, Indonesia, Fiji.
- Habitat: subtidal to 310 m.
- Original genus: *Nassa*.

□ Genus *Telasco* H. & A. ADAMS, 1853 in 1853-58

Type species: *Nassa variabilis* PHILIPPI (s. d. BUCQUOY *et al.*, 1882; = *Buccinum cuvierii* PAYRAUDEAU, 1826) (= *Tarazeuxis* IREDALE, 1936 *nom. nud.*)

G2937 *T. gaudiosa gaudiosa* (HINDS, 1844 in 1844-45)

(= *Nassa punctata* A. ADAMS, 1852 non KIENER, 1834; *N. lilacina* GOULD, 1852; *N. mustellina* GOULD, 1860; *N. semiplicatum* DUNKER, 1853; *N. semisulcata* DUNKER, 1867; *N. graphitera* BECK, 1877)

Hai-iro-yofu-bai

- Type locality: Straits of Malacca (Indonesia).

- Distribution: Suruga bay and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, Indo-Pacific.
- Habitat: subtidal to 5 m., fine sand.
- Original genus: *Nassa*.

G2938 *T. gaudiosa mucronata* (A. ADAMS, 1852 in 1852-53)

- Type locality: Damaguete, Negros island, Philippines; 'black sand, 11 fms.'
- Distribution: Suruga bay and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, Indo-Pacific.
- Habitat: subtidal to 5 m., fine sand.
- Original genus: *Nassa*.

G2939 *T. gaudiosa luctuosa* (A. ADAMS, 1852 in 1852-53)

- Type locality: Cagayan, Mindanao, Philippines; under stones on reefs.
- Distribution: Suruga bay and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, Indo-Pacific.
- Habitat: subtidal to 5 m., fine sand.
- Original genus: *Nassa*.

G2940 *T. gaudiosa marratii* (E. A. SMITH, 1876)

- Type locality: San Christoval, Solomon islands.
- Distribution: Suruga bay and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, Indo-Pacific.
- Habitat: subtidal to 5 m., fine sand.
- Original genus: *Nassa*.

G2941 *T. gaudiosa ferruginea* (MARRAT, 1880)

- Type locality: none originally given; designated 'Bali, Indonesia' (CERNOHORSKY, 1984).
- Distribution: Suruga bay and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, Indo-Pacific.
- Habitat: subtidal to 5 m., fine sand.
- Original genus: *Nassa*.

G2942 *T. gaudiosa multipunctata* (SCHEPMAN, 1911 in 1908-13)

- Mikan-yofu-bai
- Type locality: 'Siboga' sta. 60, 'Haingsisi, Saman-island, near Timor. 23 m.' (off Kupang, western Timor, Indonesia) and sta. 240, 'Banda. 9-45 m. Black sand, coral' (Banda Sea, south off Ceram island, Indonesia).
  - Distribution: Kii peninsula and southwards, P5, ECP4-ECP2; Indonesia.
  - Habitat: 70-120 m., coarse sand and stones.
  - Original genus: *Nassa* (*Zeuxis*).

G2943 *T. reeveana reeveana* (DUNKER, 1847)

- (= *Buccinum pictus* DUNKER, 1847)  
Yofu-bai-modoki (= Hirase-yofu-bai)
- Type locality: '*Indiae orientales?*' (East Indies?)
  - Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Australia.

- Habitat: intertidal to 10 m., coarse sand and stones.
- Original genus: *Buccinum*.

G2944 *T. reeveana lentiginosa* (A. ADAMS, 1852 in 1852-53)

- Sarasa-yofu-bai
- Type locality: Masbate, Philippines; 7 fms., sandy mud.
  - Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Australia.
  - Original genus: *Nassa*.

G2945 *T. reeveana zonalis* (A. ADAMS, 1852)

- Misuji-yofu-bai
- Type locality: Ticao island, Philippines; on reefs.
  - Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Australia.

G2946 *T. reeveana velata* (GOULD, 1850 in 1846-50)

- Shii-no-mi-yofu-bai
- Type locality: 'Mindanao, Philippine Islands'.
  - Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, Australia.
  - Habitat: intertidal to 30 m., rubble.
  - Original genus: '*Buccinum (Bullia?)*'.

G2947 *T. limnaeiformis* (DUNKER, 1847)

- (= *Nassa musiva* GOULD, 1850; *N. coturnix* DUNKER, 1853)  
Kasuri-yofu-bai
- Type locality: '*ignota*' (unknown).
  - Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines.
  - Habitat: intertidal to 10 m., coarse sand and stones.
  - Original genus: *Buccinum*.

G2948 *T. sufflata* (GOULD, 1860 in 1859-61)

- (= *Buccinum pictum* DUNKER, 1846 non FLEMING, 1828; *Desmoulia japonica* A. ADAMS, 1853 non *Nassa japonica* A. ADAMS, 1852; *Nassa japonica sensu* REEVE, 1854 non A. ADAMS, 1853; *N. japonica* LISCHKE, 1868; *N. balteata* LISCHKE, 1869; *N. (Desmoulia) binominata* PILSBRY, 1895; *N. tenuis* SMITH sensu IWAKAWA, 1919; *Desmoulia kurodai* TOMLIN, 1932; *Nassarius subbalteatus* MACNEIL, 1960)

- Yofu-bai
- Type locality: 'Hong Kong' and 'Kagosima' (Kagoshima, southern Kyūshū); restricted to 'Japan' (CERNOHORSKY, 1984).
  - Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2; Korea, southern China, Philippines, Australia.
  - Habitat: intertidal to 30 m., fine sand.
  - Original genus: *Nassa*.

**Notes:** holotype no longer exists; neotype nominated by CERNOHORSKY (1984).

G2949 *T. vidalensis* (BARNARD, 1959 in 1958-64)

Watazoko-yofu-bai

- Type locality: off Cape Vidal, Zululand, South Africa; 146-183 m.
- Distribution: Enshū-nada, off Miyakojima and southwards, ECP2, P2; Philippines, South Africa.
- Habitat: 200 m.
- Original genus: *Nassa*.

G2950 *T. shacklefordi* (MELVILL & STANDEN, 1896)

Okamoto-mushiro (= Okamoto-yofu-bai)

- Type locality: Loyalty islands, New Caledonia.
- Distribution: Ogasawara islands (FUKUDA, 1994), Izu islands and southwards, P6-P5, western Kyūshū, Okinawa (off Iejima); central Pacific, Australia.
- Habitat: 50-120 m., coarse sand and stones.
- Original genus: *Nassa* (*Telasco*).

□ Genus *Zeuxis* H. & A. ADAMS, 1853

Type species: *Buccinum taenia* GMELIN, 1791 (s. d. COSSMANN, 1901; = *Buccinum olivaceum* BRUGUIÈRE, 1789 in 1789-1816)  
(= *Venassa* MARTENS, 1881; *Glabrinassa* SHUTŌ, 1969; *Bathynassa* LADD, 1976)

G2951 *Z. olivaceus* (BRUGUIÈRE, 1792 in 1789-1816)

(= *Buccinum taenius* GMELIN, 1791; *Nassa mitralis* A. ADAMS, 1852; *N. badia* A. ADAMS, 1852; *N. fusca* ROUSSEAU, 1855; *N. approximata* PEASE, 1868; *N. dimorpha* COSSMANN, 1903)

Kuri-iro-mushiro (= Kuri-iro-yofu-bai; Yatate-yofu-bai)

- Type locality: 'de l'Océan Americain...de la Guadeloupe' (Guadeloupe, Caribbean sea); erroneous. Redesignated 'Mollucas, Indonesia' (CERNOHORSKY, 1984).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indonesia, Australia, Indo-Pacific.
- Habitat: intertidal to 10 m., fine sand.
- Original genus: *Buccinum*.

G2952 *Z. siquijorensis* (A. ADAMS, 1852 in 1852-53)

(= *Buccinum turris* WOOD, 1825 non WOOD, 1818; *Nassa crenellifera* A. ADAMS, 1852; *N. crenolirata* A. ADAMS, 1852; *N. cingenda* MARRAT, 1880; *N. euglypta* SOWERBY, 1914-a)

Ō-hana-mushiro

- Type locality: island of Siquijor, Philippines.
- Distribution: Enshū-nada (off Shizuoka prefecture) and southwards, P6-P5, western Kyūshū, East China Sea; Philippines, southern China.
- Habitat: 10-50 m., mud.
- Original genus: *Nassa*.

G2953 *Z. castus* (GOULD, 1850 in 1846-50)

(= *Nassa caelata* A. ADAMS, 1852; *N. vitiensis* ROUSSEAU, 1854; *N. elongata* MARRAT, 1874; *N.*

*sinensis* MARRAT, 1877; *N. oriens* MARRAT, 1880; *N. lactea* MARRAT, 1880; *N. levukensis* WATSON, 1882 in 1879-83; *N. verbeeki* MARTIN, 1895; *N. thaumasia* STURANY, 1900; *N. maldivensis* E. A. SMITH, 1903; *N. mulukensis* E. A. SMITH, 1903; *N. incognita* THIELE, 1925; *Z. caelatus dainitensis* MAKIYAMA, 1927; *Z. minoensis* ITOIGAWA, 1960; *Z. miyazakiensis* SHUTŌ, 1962; *Z. siquijorensis sensu* KURODA *et al.*, 1971; OKAMURA & KOJIMA, 1984 non A. ADAMS, 1852)  
Hana-mushiro

- Type locality: 'Pacific Ocean'.
- Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay TSUCHIDA, 1991) and southwards, P9-P5, Seto inland sea (Ōsaka bay OKAMURA & KOJIMA, 1984), Japan Sea (Oga peninsula, J3-J1), EC5, P2; Korea, Philippines, Australia, Indo-Pacific.
- Habitat: 100-200 m., sandy mud.
- Original genus: *Nassa*.

G2954 *Z. hirasei* (KURODA & HABE, 1952-a)

(= *Nassa* sp. *sensu* Y. HIRASE, 1908 in 1907-09)

Itokake-mushiro

- Type locality: off Cape Daiō, Mie prefecture (central Honshū); 50-80 m.
- Distribution: Enshū-nada and southwards, Tosa bay, Tsushima strait.
- Habitat: 50-200 m., sandy mud.
- Original genus: *Nassarius*.

**Notes:** Okinawa-hana-mushiro is a species usually cited as *Z. crenulatum* (BRUGUIÈRE, 1798); for discussion of this taxon see CERNOHORSKY (1984: p. 214).

G2955 *Z. margaritifera* (DUNKER, 1847)

(= *Buccinum reticulatum* QUOY & GAIMARD, 1833 non LINNAEUS, 1758; *Nassa (Tritia) costellifera* A. ADAMS, 1853 in 1852-53; *Nassarius (Niotha) margaritifer sensu* KURODA, 1928)

Ryūkyū-mushiro

- Type locality: 'ignota' (unknown); designated 'Bali, Indonesia' (CERNOHORSKY, 1984).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-western Pacific.
- Habitat: intertidal, sandy mud.
- Original genus: *Buccinum*.

G2956 *Z. comptus* (A. ADAMS, 1852 in 1852-53)

(= *Nassa elegans* KIENER, 1834 non SOWERBY, 1822; *N. polita* MARRAT, 1880; *N. bucculenta* MARRAT, 1880; *N. flammulata* SCHEPMAN, 1911 in 1908-13; *Z. excellens* KURODA & HABE in HABE, 1961-a)

Oboro-yofu-bai

- Type locality: Cape St. Antonio, South Africa (probably erroneous).
- Distribution: Bōsō peninsula and southwards,

southwestern Shikoku (Okino-se bank, off Okinoshima TSUCHIDA, 1989), P7-P5, western Japan Sea (Tsunoshima FUKUDA *et al.*, 1992), EC5, ECP4-ECP2, East China Sea, P2; Philippines, South China Sea, Australia.

- Habitat: 50-200 m., sand.
- Original genus: *Nassa*.

G2957 *Z. tateyamensis* (KURODA 1929-b)

Tateyama-yofu-bai

- Type locality: Tateyama bay (southern Bōsō peninsula, central Honshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5.
- Habitat: 50-200 m., sand.
- Original genus: *Nassarius* (*Zeuxis*).

G2958 *Z. cinnamomeus* (A. ADAMS, 1852 in 1852-53)

Kakure-yofu-bai

- Type locality: Dumaguete, Negros island, Philippines; low water under stones.
- Distribution: Okinawa islands (Iejima; Shimochi-jima); Philippines (Negros, Balicasag Island).
- Habitat: only recorded in Japan from shallow-water submarine caves. See KASE & KINJŌ (1996).

G2959 *Z. protrusidens* (MELVILL, 1918)

Shikoro-mushiro

- Type locality: Karachi, Pakistan.
- Distribution: Kii peninsula (off Minabe, 100 m. HABE, 1983) and southwards, P5, western Japan Sea (off Mishima TSUCHIDA & HORI, 1996); China, South China Sea, Indonesia, northeastern Australia, Pakistan to Madagascar.
- Habitat: subtidal to 280 m. (CERNOHORSKY, 1984).
- Original genus: *Alectryon* (*Hima*).

G2960 *Z. subtranslucidus* (E. A. SMITH, 1903)

(= *Z. hayashii* HABE, 1961-a)

Hidatori-mushiro

- Type locality: South Nilandu Atoll, Maldives islands; 1-36 fms.
- Distribution: Bōsō peninsula and westwards, Enshū-nada, Mie prefecture (off Shima peninsula MATSUMOTO, 1979); Maldives to northwestern Australia.
- Habitat: 50-100 m., coarse sand and stones.
- Original genus: *Nassa*.

G2961 *Z. succinctus* (A. ADAMS, 1852 in 1852-53)

Hiro-obi-yofu-bai

- Type locality: Masbate, Philippines.
- Distribution: western Seto inland sea (TSUCHIDA, HORI & MITOKI, 1991) and southwards, Kyūshū (Hakata bay; Ariake inland sea), Japan Sea (Noto peninsula); China, Philippines, east Africa, Indo-western Pacific.
- Habitat: 10 m. (in bays), mud.

- Original genus: *Nassa*.

G2962 *Z. noguchii* HABE, 1958-f

Noguchi-mushiro

- Type locality: Enshū-nada (off Shizuoka prefecture, central Honshū).
- Distribution: Enshū-nada and southwards, Kumano-nada, Tosa bay.
- Habitat: 100-200 m., sandy mud.

G2963 *Z. nakayamai* HABE, 1958-f

Nakayama-mushiro

- Type locality: Tosa bay (southern Shikoku).
- Distribution: Tosa bay and southwards, western Kyūshū.
- Habitat: 50-100 m., sandy mud.

G2964 *Z. dorsatus* (RÖDING, 1798)

(= *Buccinum trifasciatum* GMELIN, 1791 p. 3489 non GMELIN, 1791 p. 3477; *Buccinum canaliculatum* LAMARCK, 1822 in 1815-22; *Nassa livida* GRAY in KING, 1827; *Nassarius unicolorum* KIENER, 1834; *Nassa unicolorata* REEVE, 1853; *Nassa rutilans* REEVE, 1853; *Nassarius* (*Zeuxis*) *kiiensis* KURODA, MS *sensu* KIRA, 1959-a)

Murasaki-yofu-bai (= Ama-yofu-bai; Kii-yofu-bai; Kii-kuchi-murasaki-yofu-bai)

- Type locality: none designated.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, Japan Sea (Wakasa bay, J2-J1), EC5, ECP4-ECP2, P2; Philippines, Australia, Indo-western Pacific.
- Habitat: 10-200 m., sandy mud.
- Original genus: *Buccinum*.

G2965 *Z. concinnus* (POWYS in SOWERBY & POWYS, 1835)

(= *Nassa abyssicola* A. ADAMS, 1852; *Nassa crebrilineata* ROUSSEAU, 1854; *Nassa concentrica* MARRAT, 1874; *Nassa interlirata* SMITH, 1876; *Nassa smithi*, *rotundicostata*, *cribraria*, all MARRAT, 1877; *Niotha voluptabilis* JOUSSEAUME, 1894; *Nassa concinna forma minor* SCHEPMAN, 1907; *Nassarius* (*Alectryon*) *pseudomundus* OOSTINGH, 1935; *Allanassa concentrica* (MARRAT) *sensu* HABE & KOSUGE, 1966)

Kinu-yofu-bai (= Okinawa-kinu-yofu-bai; Itomaki-mushiro-gai)

- Type locality: 'In Polynesia (*Toobonai*)' (Tubuai islands, French Polynesia).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Australia, Indo-Pacific.
- Habitat: intertidal to 20 m., fine sand.
- Original genus: *Nassa*.

G2966 *Z. tabescens* (MARRAT, 1880)

Migomori-mushiro-bai

- Type locality: none designated.
- Distribution: Okinawa (Nago bay KUBO, 1996-c); 'Indonesia to the Society Islands' (CERNOHORSKY, 1984).
- Habitat: subtidal to 100 m., sand.
- Original genus: *Nassa*.

□ Genus *Varicinassa* **HABE, 1946-b**

Type species: *Nassaria varicifera* A. ADAMS, 1852 (mt.)

G2967 *V. varicifera* (A. ADAMS, 1852 in 1852-53)

Une-hana-mushiro

- Type locality: 'Eastern seas' (Cuming collection); original board in BNMH is marked 'Hab. Shanghai *fide* Mr. Hanley'. Re-designated 'Peitaiho, northern Chihli coast, China' (CERNOHORSKY, 1984).
- Distribution: Kii peninsula and southwards, P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5 (Ariake inland sea KOSUGE *et al.*, 1998), Seto inland sea (KAWAMOTO, 1934); China, Korea, Australia (Throughton island).
- Habitat: subtidal to 188 m., mud in bays.
- Original genus: *Nassaria*.

□ Genus *Profundinassa* **THIELE, 1929**

Type species: *Nassa (Aciculina) babylonica* WATSON, 1882 (o. d.)

G2968 *P. babylonica* (WATSON, 1882)

(= *Nassa turrifera* E. A. SMITH, 1895; *Terebra* sp. *sensu* YOKOYAMA, 1928)

Watazoko-mushiro

- Type locality: 'Challenger' sta. 210, eastern Philippines: 9° 26' N., 123° 45' E., 375 fms., mud.
- Distribution: Bōsō peninsula (TSUCHIDA & KUROZUMI, 1995-b) and southwards, P7-P5, East China Sea, EC5; Indo-western Pacific, southeastern Africa, Arabian Sea, eastern Australia.
- Habitat: 400-800 m., mud.
- Original genus: *Nassa (Aciculina)*.

G2969 *P. diluta* (E. A. SMITH, 1899)

(= *P. pupa* OKUTANI, 1968)

Futo-watazoko-mushiro

- Type locality: off Colombo, Sri Lanka, 597 fms and off Kistna coast, 753 fms.
- Distribution: Izu islands (off Miyake island OKUTANI, 1968) and southwards, off Bōsō peninsula (TSUCHIDA & KUROZUMI, 1995-b), Kumano-nada, off Kii peninsula (975-1112 m. TSUCHIDA, 1985-b; off Kushimoto), off Amami Ōshima; western Pacific, Indian Ocean.
- Habitat: 600-2200 m.
- Original genus: *Nassa*.

□ Genus *Hima* **LEACH in GRAY, 1852**

Type species: *Buccinum minutum* PENNANT, 1777 (s. d.)

MARWICK, 1931; = *Buccinum incrassatum* STROM, 1768)

(= *Tritonella* A. ADAMS, 1852; *Mirus* MARWICK, 1931; *Reticunassa* IREDALE, 1936)

G2970 *H. festiva* (POWIS in SOWERBY & POWYS, 1835)

(= *Nassa nodata* HINDS, 1844; *N. lirata* DUNKER, 1860; *Nassarius (Hinia) prefestivus* MACNEIL, 1960)

Ara-mushiro

- Type locality: 'Panama & St. Helena' given in original description, but thought to be erroneous; 'Japan' is written on board to which syntypes (BMNH 197365/1-3) were formerly attached (Cuming collection). Redesignated 'Japan' (CERNOHORSKY, 1984).
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5, P2; Korea, China, Philippines.
- Habitat: intertidal in bays, coarse sand and stones.
- Original genus: *Nassa*.

G2971 *H. paupera* (GOULD, 1850 in 1846-50)

(= *Nassa dermestina* GOULD, 1860; *N. plebecula* GOULD, 1860; *N. microstoma* PEASE, 1869; *N. tringa* SOUVERBIE, 1864; *N. balteata* PEASE, 1869 (Oct.) *non* LISCHKE, 1869 (May); *N. compacta* ANGAS, 1865; *N. scalarina* MARRAT, 1877; *Arcularia pilata* HEDLEY, 1915; *Nassarius (Reticunassa) taggartorum* KURODA, 1960)

Nami-hime-mushiro (= Kōshi-hime-mushiro)

- Type locality: 'Pacific Ocean'.
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (J1), northwestern Kyūshū, EC5, ECP4-ECP2, P2; Philippines, Australia.
- Habitat: intertidal, fine sand.
- Original genus: *Nassa*.

G2972 *H. fuscolineata* (E. A. SMITH, 1875)

(= *Nassa (Zeuxis) varicifera* var. *fraterminor* PILSBRY, 1895)

Fukabori-hime-mushiro

- Type locality: 'Cape Sima' (Shima peninsula, Mie prefecture, central Honshū); 18 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5.
- Habitat: 10-50 m., sand.
- Original genus: *Nassa*.

G2973 *H. praematurata* (KURODA & HABE in HABE, 1960-b)

(= *Nassa japonica sensu* LISCHKE, 1874 *non* A. ADAMS, 1852, *nec* LISCHKE, 1868; *N. tenuis* E. A. SMITH, 1875 *non* RISSO, 1826)

Omase-mushiro

- Type locality: Tomioka, Amakusa, southwestern Kyūshū; 10-20 m.
- Distribution: Seto inland sea and southwards, P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5; Korea.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Reticunassa*.

G2974 *H. fratercula fratercula* (DUNKER, 1860)

(= *Nassa hypolia* PILSBRY, 1895; *N. semiplicata hizenensis* PILSBRY, 1904-b; *N. fuscolineata sensu* Y. HIRASE, 1908)

Kuro-suji-mushiro (= Aomori-mushiro)

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: Hokkaidō and southwards, Iwate prefecture (Ōtsuchi bay TSUCHIDA, 1991), P10-P5, Japan Sea (J2-J1), EC5; Korea, China.
- Habitat: intertidal, sandy mud and rubble.
- Original genus: *Nassa*.

G2975 *H. fratercula hiradoensis* (PILSBRY, 1904-b)

Une-mushiro

- Type locality: 'Hirado, Hizen' (Hirado island, Nagasaki prefecture, western Kyūshū).
- Distribution: southwestern Hokkaidō and southwards, P10-P5, Japan Sea (J4-J1), EC5.
- Habitat: intertidal, rubble.
- Original genus: *Nassa*.

G2976 *H. multigranosa* (DUNKER, 1847)

(= *Nassa spurca* GOULD, 1860; *Nassa (Hima) acutidendata (sic)* E. A. SMITH, 1879; *Reticunassa chibi* HABE, 1960)

Hime-mushiro (= Chibi-mushiro)

- Type locality: 'West Indies' (error). Re-designated 'Hirado, Hizen, Japan' (Hirado island, western Kyūshū) CERNOHORSKY, 1984.
- Distribution: Hokkaidō and southwards, Iwate prefecture (Ōtsuchi bay TSUCHIDA, 1991), P10-P5, Japan Sea (J4-J1), EC5; Korea, northern China, Philippines.
- Habitat: intertidal to 20 m., rubble.
- Original genus: *Buccinum*.

**Notes:** Kinu-bora is the Japanese name of a species usually cited as *Nassa japonica* A. ADAMS, 1852 in 1852-53, which considered here a *nomen dubium* in accordance with CERNOHORSKY (1984: 215); Kinu-bora is thus considered probably an un-named species by the present authors.

□ Genus *Allanassa* IREDALE, 1929

Type species: *Nassa eximia* H. ADAMS, 1872 (o. d.)

G2977 *A. eximius* (H. ADAMS, 1872-b)

Hoso-mushiro

- Type locality: New Hebrides (eastern Papua New

Guinea).

- Distribution: Ogasawara islands and southwards, P11, P2; Philippines, tropical central Pacific.
- Habitat: subtidal, rubble.
- Original genus: *Nassa*.

□ Genus *Aciculina* A. ADAMS, 1853 in 1852-53

Type species: *Nassa vittata* A. ADAMS, 1853 (= s. d. COSSMANN, 1901)

(= *Hannonia* PILSBRY, 1914 non HOEK, 1881)

G2978 *Aciculina labiata* (A. ADAMS, 1853)

(= *Aciculina costata* A. ADAMS, 1853 non WOOD, 1848, nec A. ADAMS, 1852; *Nassa terebroides* REEVE, 1853 in 1843-65)

Shichiku-yofu-bai

- Type locality: Malacca, coarse sand, 10 fms. (Indonesia).
- Distribution: Yakushima (southern Kyūshū), P2; Taiwan, Philippines, central and western Pacific.
- Habitat: subtidal to 50 m., sand.
- Original genus: *Nassa (Aciculina)*.

□ Genus *Hebra* H. & A. ADAMS, 1853 in 1853-58

Type species: *Buccinum muricatum* QUOY & GAIMARD, 1833 non SCHRÖTER, 1805 (s. d. COSSMANN, 1901; = *Buccinum horridum* DUNKER, 1847)

(= *Scabronassa* PEILE, 1939)

G2979 *H. horrida* (DUNKER, 1847)

(= *Buccinum muricatum* QUOY & GAIMARD, 1833 non SCHRÖTER, 1805; *B. scabrum* DUNKER, 1846-b non ANTON, 1838; *Nassa curta* GOULD, 1850 in 1846-50) Iga-mushiro (= Kagome-mushiro)

- Type locality: 'ignota' (unknown); designated 'Rennell I, Solomon Is.' (CERNOHORSKY, 1984).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, East and South Africa to India, Samoa.
- Habitat: intertidal to 20 m., sandy mud.
- Original genus: *Buccinum*.

□ Genus *Soyonassa* OKUTANI, 1964-b

Type species: *Soyonassa porifericola* OKUTANI, 1964 (mt.)

G2980 *S. porifericola* OKUTANI, 1964-b

- Type locality: 'Sōyō-Marū' sta. B3, 10.5 miles off Hachijō island, Izu islands: 35° 10.0' N., 140° 02.7' E., 470 m., on sponge.
- Distribution: off central Honshū.
- Habitat: 400-500 m., in sponges.

**Notes:** the position of this genus and species is provisional; both have also been placed in Risssooidea (CERNOHORSKY, 1984).

Subfamily CYLLENINAE BELLARDI, 1882



□ Genus *Cyllene* GRAY in GRIFFITH & PIDGEON, 1834

Type species: *Cyllene owenii* GRAY in GRIFFITH & PIDGEON, 1834 (mt.)

(= *Radulphus* IREDALE, 1924)

G2981 *C. pulchella* ADAMS & REEVE, 1850 in 1848-50

(= *C. striata* A. ADAMS, 1851; *C. glabrata* A. ADAMS, 1851; *C. oblonga* SCHEPMAN, 1911 in 1908-13; *C. bantamensis* OOSTINGH, 1939)

Mugi-yofu-bai (= Shirene-gai; Subesube-mugi-yofu-bai)

• Type locality: 'Borneo, on the shore' (Lombe-Taylor collection).

• Distribution: Ogasawara islands (FUKUDA, 1994), Sagami bay and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, tropical Indo-Pacific.

• Habitat: intertidal to 50 m., sand.

G2982 *C. concinna* A. ADAMS, 1851-f

(= *C. japonica* PILSBRY, 1904; *C. japonica badia* KURODA, 1928 *nom. nud.*)

Hoso-mugi-yofu-bai (= Hoso-shirene-gai; Hime-shirene-gai; Koge-shirene-gai)

• Type locality: 'Guinea' (West Africa), erroneous; redesignated 'Osima, Osumi, Japan' (Amami Ōshima) (CERNOHORSKY, 1984).

• Distribution: Ogasawara islands (FUKUDA, 1994), Kii peninsula and southwards, P5, Japan Sea (J1), northwestern Kyūshū, EC5, ECP4-ECP2.

• Habitat: intertidal to 20 m., coarse sand and stones.

G2983 *C. fuscata* A. ADAMS, 1851-f

(= *C. pallida* A. ADAMS, 1851-f; *C. plumbea* SOWERBY, 1859 in 1842-87; *C. varians* COSSMANN, 1903)

• Type locality: 'West Africa', erroneous; redesignated 'Bombay, India' (Mumbai CERNOHORSKY, 1984).

• Distribution: 'Pacific coast, 0°-31° N.' (KURODA & HABE, 1952-a); 'Gulf of Oman to East Africa and Indo-Malaysia' (CERNOHORSKY, 1984).

Family MELONGENIDAE GILL, 1871

□ Genus *Pugilina* SCHUMACHER, 1917

Type species: *Murex morio* LINNAEUS, 1758

(= *Volegalea* IREDALE, 1938)

Subgenus *Semifusus* SWAINSON, 1840

Type species: *Fusus colosseus* LAMARCK, 1816

(= *Cochlidium* GRAY, 1850; *Hemifusus auct.*)

G2984 *P. (S.) colosseus* (LAMARCK, 1822 in 1815-22)

Ō-tengu-nishi

• Type locality: none designated.

• Distribution: western Kyūshū and southwards, East China Sea, EC5, ECP4-ECP2, P2; southeast Asia.

• Habitat: 20-50 m., sand.

• Original genus: *Fusus*.

G2985 *P. (S.) tuba* (GMELIN, 1791)

Tengu-nishi

• Type locality: 'in Sina' (China).

• Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Indo-western Pacific.

• Habitat: 10-100 m., sand.

• Original genus: *Murex*.

G2986 *P. (S.) crassicaudus* (PHILIPPI, 1848)

(= *Hemifusus tuba sensu* IWAKAWA, 1919; KIRA, 1954)

Oni-nishi (= Tsuno-nishi)

• Type locality: China.

• Distribution: Kii peninsula and southwards, P6-P5, EC5, ECP4-ECP2, P2; Indo-western Pacific.

• Habitat: 10-50 m., sand.

• Original genus: *Hemifusus*.

G2987 *P. (S.) ternatana* (GMELIN, 1791)

(= *Pyruca ternata sensu* REEVE, 1847)

Naga-tengu-nishi

• Type locality: 'ad littora insulae Ternate' (Ternate island, west off Halmahera, Moluccas (Maluku), Indonesia).

• Distribution: P2; Taiwan and southwards, Indonesia.

• Habitat: 10-50 m., sand.

• Original genus: *Murex*.

Family FASCIOLARIIDAE GRAY, 1853

Subfamily FASCIOLARIINAE GRAY, 1853

□ Genus *Pleuroploca* FISCHER, 1884

Type species: *Murex trapezium* LINNAEUS, 1758 (mt.)

G2988 *P. trapezium trapezium* (LINNAEUS, 1758)

(= *Fasciolaria lineata* PERRY, 1811; *F. ferruginea* LAMARCK, 1822 in 1815-22; *F. ponderosa* JONAS in PHILIPPI, 1851; *F. audouini* JONAS in PHILIPPI, 1851; *P. lischkeana* DUNKER, 1863)

Itomaki-bora (= Aka-itomaki-bora)

• Type locality: 'ad Amboinam' (Amboina, Indonesia).

• Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Australia.

• Habitat: intertidal to 30 m., rocks.

• Original genus: *Murex*.

G2989 *P. trapezium paeteli* (STREBEL, 1912)

(= *Fasciolaria audouini* JONAS *sensu* KURODA, 1928; *F. iizukai* YOKOYAMA, 1928; *P. trapezium audouini sensu* KIRA, 1962)

Hime-itomaki-bora

• Type locality: Nagasaki, western Kyūshū.

• Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (J1), northwestern Kyūshū, EC5; western Pacific.

• Habitat: intertidal to 20 m., rocks and gravel.

- Original genus: *Fasciolaria*.

G2990 *P. filamentosa* (RÖDING, 1798)

(= *Fasciolaria cincta* LINK, 1807; *F. inermis* JONAS, 1846; *F. altimasta* IREDALE, 1930)

Naga-itomaki-bora

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Australia.
- Habitat: intertidal to 50 m., rocks.
- Original genus: *Fusus*.

G2991 *P. glabra* (DUNKER, 1882)

Tsunoki-gai

- Type locality: none designated; 'Japan' from title of book.
- Distribution: Izu islands and southwards, P6-P5, EC5.
- Habitat: intertidal to 20 m., rocks and gravel.
- Original genus: *Fasciolaria*.

G2992 *P. coronata* (LAMARCK, 1822 in 1816-22)

Beni-itomaki-bora

- Type locality: 'les mers de la Nouvelle-Hollande, près des îles King et des Kangaroos' (south-west off Victoria, southern Australia).
- Distribution: Okinawa and southwards; Philippines, Australia, Tasmania.
- Original genus: *Fasciolaria*.

Subfamily PERISTERIINAE TRYON, 1880

□ Genus *Peristernia* MÖRCH, 1852

Type species: *Turbinella nassatula* LAMARCK, 1822

G2993 *P. nassatula* (LAMARCK, 1822 in 1816-22)

Murasaki-tsunomata-modoki

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, western Japan Sea (Yamaguchi prefecture KAWAKAMI & ITO, 1997), EC5, ECP4-ECP2, P2; Philippines, tropical Pacific, Australia.
- Habitat: intertidal, rocks.
- Original genus: *Turbinella*.

G2994 *P. australiensis* (REEVE, 1847 in 1843-65)

Kuro-fushi-tsunomata (= Kurofu-tsunomata)

- Type locality: 'Port Essington, New Holland' (Australia).
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, Indo-western Pacific, Australia.
- Habitat: intertidal, rocks and coral reefs.
- Original genus: *Turbinella*.

G2995 *P. ustulata ustulata* (REEVE, 1847 in 1843-65)

(= *Turbinella caledonica* PETIT de la SAUSSAYE, 1851; *Latirus marquesanus* A. ADAMS, 1855; '*Latirus* (*Peristernia*) cf. *chlorostoma* SOWERBY, 1825' sensu KURODA, 1928; '*Peristernia pulchella* (REEVE) var.' sensu KURODA & HABE, 1952-a)

Hashiguro-tsunomata-modoki

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-western Pacific.
- Habitat: intertidal, coral reefs.
- Original genus: *Turbinella*.

G2996 *P. ustulata luchuana* PILSBRY, 1901-a

(= *P. ustulata sensu* IWAKAWA, 1919)

Ki-iro-tsunomata-modoki

- Type locality: 'Loo Choo islands' (Okinawa).
- Distribution: Tanegashima & Yakushima and southwards, ECP4-ECP2.
- Habitat: intertidal, rocks and coral reefs.

G2997 *P. incarnata* (KIENER, 1840 in 1834-80)

Kuchibeni-tsunomata-modoki

- Type locality: Indian Ocean, Red Sea, China seas and 'les côtes de Manille' (Manila, Philippines).
- Distribution: Kii peninsula and southwards, southern Kyūshū, P5, ECP4-ECP2, P2; Philippines, Indo-western Pacific, Australia.
- Habitat: intertidal, rocks and coral reefs.

□ Genus *Benimakia* HABE, 1958-h

Type species: *Turbinella rhodostomia* DUNKER, 1860 non A. ADAMS, 1855 (o. d.; = *Turbinella fastigium* REEVE, 1847)

G2998 *B. fastigium* (REEVE, 1847 in 1843-65)

(= *Turbinella rhodostoma* DUNKER, 1860 non A. ADAMS, 1855; *Latirus rhodostoma sensu* IWAKAWA, 1919; KURODA, 1928; *B. fastiginda sensu* SAKURAI, 1986 err.)

Beni-maki (= Ko-beni-maki)

- Type locality: none designated.
- Distribution: Ogasawara islands, Bōsō peninsula and southwards, P7-P5, Japan Sea (J1), EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Australia.
- Habitat: subtidal to 20 m., rocks and coral rubble.
- Original genus: *Turbinella*.

□ Genus *Fusolatirus* KURODA & HABE in KURODA *et al.*, 1971

Type species: *Peristernia pilsbryi* KURODA & HABE, 1971 (o. d.; = *Fusus coreanicus* E. A. SMITH, 1879)

G2999 *F. coreanicus* (E. A. SMITH, 1879)

(= *Pythachatrus coreanicus* S. HIRASE, 1907 non SMITH, 1879; *Peristernia pilsbryi* KURODA & HABE, 1952-a)

Chōsen-nishi (= Kuroda-tsunomata-modoki)

- Type locality: south of Korea: 34° 8' N., 126° 24' E., 24 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (J1), EC5, Ogasawara islands (FUKUDA, 1995);

southern Korea.

- Habitat: intertidal to 200 m., coarse sand and stones.
- Original genus: *Fusus*.

G3000 *F. kuroseanus* OKUTANI, 1975-a

Hoso-nishiki-nina

- Type locality: Kurose bank, off Izu islands: 33° 23.5' N., 139° 36.2' E., 260 m.
- Distribution: type locality; Hawaiian islands.
- Habitat: 100-300 m.

G3001 *F. kurodai* (OKUTANI & SAKURAI, 1964-b)

Hade-itomaki-nishi

- Type locality: 'Kashiwajima island, Bungo strait between Shikoku and Kyūshū', corrected to 'Off Gotō Islands, Nagasaki Prefecture, Kyūshū' (OKUTANI & SAKURAI, 1966).
- Distribution: Izu islands and westwards, off Kii peninsula, Tosa bay, western Kyūshū.
- Habitat: 100-200 m., rocks.
- Original genus: *Pseudolatirus*.

□ Genus *Pseudolatirus* BELLARDI, 1884

**Notes:** WILSON (1994) gives the type species of this genus as *Fusus bilineatus* BARTSCH, but with no date; the present authors have been unable to trace this name. Wilson notes that it is a 'North American Tertiary fossil' and that the placement of *P. pallidus* in this genus is provisional. The present authors also feel a revision of the position of the two Recent species currently in *Pseudolatirus* is necessary.

G3002 *P. discrepans* KURODA & HABE in HABE, 1961-a

Nakayama-naga-nishi-modoki (= Nakayama-tsunomata-modoki)

- Type locality: off Cape Ashizuri (southwestern Shikoku); ± 200 m.
- Distribution: Tosa bay (southern Shikoku), western Kyūshū, East China Sea, P2; Philippines.
- Habitat: 150-300 m., coarse sand and stones.

G3003 *P. pallidus* KURODA & HABE in HABE, 1961-a

Shiro-hime-naga-nishi-modoki (= Usu-iro-naga-nishi-modoki)

- Type locality: off Cape Ashizuri (southwestern Shikoku); ± 200 m.
- Distribution: Tosa bay (southern Shikoku), western Kyūshū; Australia (off Rowley Shoals, 400-500m. WILSON, 1994).
- Habitat: 100-200 m., coarse sand and stones.

□ Genus *Dolicholatirus* BELLARDI, 1884

Type species: *Murex lancea* GMELIN, 1791 (= *Latirofuscus* COSSMANN, 1889; *Fusilatirus* MCGINTY, 1955)

G3004 *D. lancea* (GMELIN, 1791)

(= *Murex angustus* GMELIN, 1791; *Turbinella acleiformis* SOWERBY, 1830; *T. ligula* KIENER, 1840; *T. lanceola* REEVE, 1847)

Yarinoho-tsunomata

- Type locality: 'in Amboina' (Ambon island, Moluccas (Maluku), Indonesia).
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Indo-western Pacific, Australia.
- Habitat: intertidal to 50 m., rocks and coral reefs.
- Original genus: *Murex*.

G3005 *D. acus* (ADAMS & REEVE, 1850 in 1848-50)

Kiri-tsunomata (= Kiri-naga-nishi)

- Type locality: 'China Sea, off Borneo'.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-western Pacific, Australia.
- Habitat: 50-100 m., rubble.
- Original genus: *Fusus*.

□ Genus *Latirolagena* HARRIS, 1897

Type species: *Buccinum smaragdula* LINNAEUS, 1758 (= *Latirolagena sensu* HABE & OKUTANI, 1985 err.)

G3006 *L. smaragdula* (LINNAEUS, 1758)

(= *Polygona crassa* SCHUMACHER, 1817; *Leucozonia rustica* LAMARCK, 1852)

Maru-nishi

- Type locality: none designated.
- Distribution: Amami Ōshima and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific, central Pacific, Australia.
- Habitat: intertidal, rocks.
- Original genus: *Buccinum*.

□ Genus *Latirus* MONTFORT, 1810 in 1808-10

Type species: *Latirus auranticus* MONTFORT, 1810 (= *Murex gibbulus* GMELIN, 1791)

(= *Lathyrus auct.*; *Eolatirus* BELLARDI, 1883; *Plesiolatirus* BELLARDI, 1883; *Hemipolygona* ROVERETO, 1899; *Chascax* WATSON, 1873 *non* RITGEN, 1828)

G3007 *La. polygonus polygonus* (GMELIN, 1791)

(= *Murex angulatus* RÖDING, 1798; *M. lignarius* PERRY, 1811 *non* LINNAEUS, 1758)

Ryūkyū-tsunomata

- Type locality: 'in Oceano indico' (Indian Ocean).
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific, Australia.
- Habitat: intertidal, rocks.
- Original genus: *Murex*.

G3008 *La. polygonus barclayi* (REEVE, 1847 in 1843-65)

Shiro-une-ryūkyū-tsunomata

- Type locality: 'Island of Mauritius'.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific, Australia.
- Habitat: intertidal, rocks.
- Original genus: *Turbinella*.

G3009 *La. recurvirostris* (SCHUBERT & WAGNER, 1829)

Heso-aki-tsunomata

- Type locality: none designated.
- Distribution: Miura peninsula (eastern Sagami bay) and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Indo-western Pacific, Australia.
- Habitat: subtidal to 30 m., rocks.
- Original genus: *Turbinella*.

G3010 *La. stenophalus* HABE & KOSUGE, 1966-b

Kira-heso-aki-tsunomata (= Kira-tsunomata)

- Type locality: Zamboanga, Philippines.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines.
- Habitat: subtidal to 30 m., rocks.

G3011 *La. nodatus* (GMELIN, 1791)

(= *L. rigidus* WOOD, 1828 in 1818-28; *L. robillardii* TAPPARONE-CANEFRI, 1879)

Botto-tsunomata

- Type locality: '*ad novam Hollandiam*' (Australia).
- Distribution: off southern Kii peninsula, Okinawa islands and southwards, ECP2, P2; Philippines, Australia, Hawaii, tropical Pacific.
- Habitat: intertidal to 50 m., rocks.
- Original genus: *Murex*.

G3012 *La. lautus* (REEVE, 1847 in 1843-65)

Kazari-nishiki-nina

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Turbinella*.

G3013 *La. belcheri* (REEVE, 1847 in 1843-65)

Tsunomata-modoki

- Type locality: 'Cargados Garajos (coral bottom), Indian Ocean'
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, western Pacific, Australia.
- Habitat: subtidal, rocks.
- Original genus: *Turbinella*.

G3014 *La. pictus* (REEVE, 1847 in 1843-65)

Aya-tsunomata-modoki

- Type locality: Fiji islands.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, tropical western Pacific, Australia.

- Habitat: subtidal, rocks.
- Original genus: *Turbinella*.

G3015 *La. amplustris* (DILLWYN, 1817)

(= *Turbinella aplustre* SOWERBY, 1825; '*Peristeria philberi* (sic) RÉCLUZ' sensu SHIKAMA & HORIKOSHI, 1963)

Shima-tsunomata-modoki

- Type locality: 'North west coasts of America (Humphreys)' and 'Friendly Islands (Martyn)' (Tonga).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, tropical western Pacific, Australia.
- Habitat: intertidal, coral reefs.
- Original genus: *Buccinum*.

G3016 *La. candelabrum* (REEVE, 1847 in 1843-65)

Shanderia-tsunomata

- Type locality: 'St. Elena, West Columbia; 7 fms., sandy mud' (? erroneous).
- Distribution: Okinawa islands and southwards, ECP2, P2.
- Habitat: intertidal, rocks.
- Original genus: *Turbinella*.

G3017 *La. kandai* KURODA, 1950-a

Kanda-nishiki-nina

- Type locality: Ōbiki, Shirasaki, Wakayama prefecture (Kii peninsula, central Honshū).
- Distribution: Izu peninsula and southwards, western Kyūshū, P6-P5, EC5.
- Habitat: subtidal to 30 m., rocks.

□ Genus *Crassicantharus* PONDER, 1972

Type species: *Crassicantharus norfolkensis* PONDER, 1972 (o. d.)

G3018 *C. noumeensis* (CROSSE, 1870-b)

(= *Latirus aureocinctus* SOWERBY, 1875)

Kin-suji-ko-tsunomata (= Kin-suji-tsunomata)

- Type locality: Noumea, New Caledonia.
- Distribution: Ogasawara islands, Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific, Australia, New Caledonia.
- Habitat: intertidal to 50 m., rocks.
- Original genus: *Turbinella*.

□ Genus *Latirulus* COSSMANN, 1901

Type species: *Fusus subaffinis* D'ORBIGNY, 1850 (o. d.) (= *Lathyrulus* COSSMANN, 1889)

G3019 *L. craticulatus* (LINNAEUS, 1758)

Nishiki-nina

- Type locality: none given in LINNAEUS, 1758; '*in M. Mediterraneo*' in LINNAEUS, 1767 (erroneous).
- Distribution: southern Kyūshū and southwards, ECP4-ECP2, P2; Philippines, tropical western Pacific, Australia.
- Habitat: subtidal, rocks.

- Original genus: *Murex*.

G3020 *L. nagasakiensis* (E. A. SMITH, 1880)

Nagasaki-nishiki-nina

- Type locality: 'Japan'.
- Distribution: Bōsō peninsula and southwards, P7-P5, western Japan Sea (Yamaguchi prefecture), EC5, ECP4.
- Habitat: intertidal to 50 m., rocks.
- Original genus: *Latirus*.

G3021 *L. turritus* (GMELIN, 1791)

(= *Turbinella lineata* LAMARCK, 1816 non PERRY, 1811; *Latirus subfuscus* TAPPARONE-CANEFRI, 1882)  
Sujiguro-nishiki-nina

- Type locality: none designated.
- Distribution: Ogasawara islands, Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific, Australia.
- Habitat: subtidal to 20 m., rocks and coral reefs.
- Original genus: *Voluta*.

Subfamily FUSININAE WRIGLEY, 1927

□ Genus *Fusinus* RAFINESQUE, 1815

Type species: *Murex colus* LINNAEUS, 1758

(= *Fusus auct. non* HELBLING, 1779; *Colus* HUMPHREY, 1797 invalid; *Sinistralia* H. & A. ADAMS, 1853; *Pseudofusus* MONTEROSATO, 1884; *Falsifusus* GRABAU, 1904)

G3022 *F. colus* (LINNAEUS, 1758)

(= *Murex toreuma* MARTYN, 1784 (invalid: ICZN op. 456); *M. tornata* RÖDING, 1798; *Fusus tuberculata* LAMARCK, 1822 in 1815-22; *F. sinovellus* IREDALE, 1929; *F. boardmani* IREDALE, 1930)

Hoso-nishi

- Type locality: 'in utraque India' (coasts of India).
- Distribution: Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; Korea (T'ongyong), Philippines, Indo-western Pacific, Australia.
- Habitat: intertidal to 30 m., sand.
- Original genus: *Murex*.

G3023 *F. perplexus* (A. ADAMS, 1863-m)

(= *Fusinus inconstans* LISCHKE, 1869; *Fusus perplexus nagasakii* GRABAU, 1904)

Naga-nishi

- Type locality: Tateyama, Bōsō peninsula (Chiba prefecture, central Honshū).
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5; southeastern Korean peninsula.
- Habitat: 10-100 m., sand.
- Original genus: *Fusus*.

G3024 *F. ferrugineus* KURODA & HABE in HABE, 1961-a

(= *Fusinus inconstans minor* LISCHKE, 1869 non LEA, 1833)

Ko-naga-nishi

- Type locality: 'Jedo et Nagasaki' (Tōkyō and Nagasaki).
- Distribution: Sagami bay and southwards, P6-P5, Japan Sea (Noto peninsula, J2-J1), EC5.
- Habitat: 50-150 m., sand.

G3025 *F. nodosoplicatus* (DUNKER, 1867 in 1868-70)

Kobu-naga-nishi

- Type locality: 'mare Japonicum' (Japan).
- Distribution: Sagami bay and southwards, P6-P5, Japan Sea (Noto peninsula, J2-J1), EC5.
- Habitat: 50-150 m., sand.
- Original genus: *Fusus*.

G3026 *F. longicaudus* (LAMARCK, 1801)

hashinaga-nishi

- Type locality: none designated.
- Distribution: Suruga bay and southwards, P6-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4.
- Habitat: 50-100 m., sand.
- Original genus: *Fusus*.

G3027 *F. grabaui* KURODA & HABE, 1952-a

(= *Fusus nodosoplicatus* GRABAU, 1904 non DUNKER, 1858)

Kobushi-naga-nishi

- Type locality: Japan.
- Distribution: Kii peninsula and southwards, P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5.
- Habitat: 50-100 m., sandy mud.

G3028 *F. gemmuliferus* KIRA, 1959-a

Kagome-naga-nishi

- Type locality: Pacific coast off southern Shikoku, 30-40 fms.
- Distribution: Sagami bay and southwards, P6-P5, Japan Sea (off Akita prefecture, J3-J1), EC5.
- Habitat: 50-100 m., sandy mud.

G3029 *F. akitai* KURODA & HABE in HABE, 1961-a

Kanamaru-naga-nishi

- Type locality: Enshū-nada off Isshiki, Aichi prefecture (central Honshū), 120-150 m.
- Distribution: Enshū-nada and westwards, off Kii peninsula, Tosa bay.
- Habitat: 100-200 m., sandy mud.

G3030 *F. toreumus* (DESHAYES, 1843 in LAMARCK, 1835-45)

Arabori-hoso-nishi (= Koshiboro-hoso-nishi)

- Type locality: 'Île Pulo-Condore, dans l'Océan de l'Inde' (probably Condor (Con Son) island, off southern Vietnam).
- Distribution: Tosa bay and southwards, P5, EC5, ECP4-ECP2; southeast Asia.

- Habitat: 50-100 m., sand.
- Original genus: *Fusus*.

G3031 *F. beckii* (REEVE, 1848 in 1843-65)  
(= *Fusus ventricosus* REEVE, 1848 in 1843-65 non GRAY, 1839)

- Saizuchi-naga-nishi (= Hoso-hashinaga-nishi)
- Type locality: none designated.
  - Distribution: Ogasawara islands (KIMURA, 1997); Enshū-nada and westwards, Kii peninsula, Tosa bay.
  - Habitat: 50-100 m., sand.
  - Original genus: *Fusus*.

G3032 *F. forceps forceps* (PERRY, 1811)  
(= *Fusus turricula* KIENER, 1840)

- Itomaki-naga-nishi
- Type locality: China.
  - Distribution: Enshū-nada and southwards, P6-P5, EC5, East China Sea, ECP4-ECP2, P2; Philippines, China.
  - Habitat: 50-100 m., fine sand.
  - Original genus: *Murex*.

G3033 *F. forceps salisburyi* FULTON, 1930  
(= *F. forceps* sensu KIRA, 1962)

- Type locality: 'Kii' (Kii peninsula, central Honshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, East China Sea, ECP4-ECP2, P2; Korea, Philippines, Australia.
- Habitat: 20-100 m., fine sand.

G3034 *F. crassiplicatus* KIRA, 1959-a  
Futo-une-naga-nishi

- Type locality: Pacific coast of southern Honshū, 40-50 fms.
- Distribution: Kii peninsula and southwards, Tosa bay, western Kyūshū.
- Habitat: 50-100 m., sandy mud.

G3035 *F. undatus* (GMELIN, 1791)  
(= *Murex tabaccaria* RÖDING, 1798; *Fusus incrassatus* LAMARCK, 1816; *Fusus similis* BAIRD, 1873; *Fusus sandvicensis* SOWERBY, 1880)

Migaki-naga-nishi

- Type locality: 'in India'.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Australia, Hawaii.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Murex*.

G3036 *F. spectrum* (ADAMS & REEVE, 1848 in 1848-50)  
Kadobari-naga-nishi

- Type locality: 'Eastern seas'.
- Distribution: Suruga bay and southwards, P6-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5.

- Habitat: 50-100 m., sand.
- Original genus: *Fusus*.

G3037 *F. reeveanus* (PHILIPPI, 1850 in 1842-51)  
(= *Fusus multicarinatus* 'LAMARCK' sensu REEVE, 1847 in 1843-65 non KIENER, 1840 in 1834-80)

- Oni-naga-nishi
- Type locality: none designated (Reeve, Conch. Icon. IV: *Fusus* sp. 22).
  - Distribution: Okinawa islands and southwards, ECP2, P2.
  - Habitat: intertidal to 20 m., sand.
  - Original genus: *Fusus*.

G3038 *F. nicobaricus* (RÖDING, 1798)  
(= *Murex marmorata* RÖDING, 1798; *M. variegatus* PERRY, 1811; *Fusus laticostatus* DESHAYES, 1830; *Fusus novaehollandiae* REEVE sensu BRYAN, 1915; *Fusus undatus* GMELIN sensu TINKER, 1958)

Chitose-bora (= Chitose-naga-nishi)

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Australia, Hawaii.
- Habitat: subtidal to 150 m., rocks.
- Original genus: *Murex*.

G3039 *F. tuberosus tuberosus* (REEVE, 1847 in 1843-65)  
(= *Fusus solidulus* A. ADAMS, 1864)

Mikuri-naga-nishi (= Ō-mikuri-gai; Ō-tsunomata)

- Type locality: none originally given; designated 'southern Japan' (DUNKER, 1880).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (J1), northwestern Kyūshū, EC5; Korea, China.
- Habitat: intertidal to 40 m., rocks.
- Original genus: *Fusus*.

G3040 *F. tuberosus nigrirostratus* (E. A. SMITH, 1879)  
Tsunomata-naga-nishi (= Tsunomata-gai; Tsubakuro-naga-nishi)

- Type locality: south of Korea: 34° 8' N., 126° 24' E., 24 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (Yamagata prefecture (Yuno-da), J3-J1), EC5; Korea.
- Habitat: intertidal to 20 m., rubble.
- Original genus: *Fusus*.

G3041 *F. sagamiensis* KURODA & HABE in KURODA *et al.*, 1971

- Sagami-naga-nishi
- Type locality: Sagami bay, central Honshū, 1.6 km southwest off Jōgashima, 85 m.
  - Distribution: western Sagami bay, Suruga bay, Enshū-nada, Kii peninsula, Tosa bay.
  - Habitat: 50-100 m., on rocks and in gravel.

G3042 *F. penioniformis* **HABE, 1970**

Penion-naga-nishi (= Tokuhōji-naga-nishi)

- Type locality: off Okinoshima, near Cape Ashizuri, southern Shikoku; 50-100 m.
- Distribution: recorded only from type locality.

G3043 *F. loebbeckei* (**KOBELT, 1881**)

- Type locality: Sea of Japan.
- Distribution: recorded only from type locality.
- Original genus: *Fusus*.

G3044 *F. distans* **LAMARCK, 1822 in 1815-22**

- Type locality: none designated.
- Distribution: Yaeyama islands (PILSBRY in HIRASE, 1907); Philippines.
- Original genus: *Fusus*.

G3045 *F. longissimus* (**GMELIN, 1791**)

Daiō-naga-nishi

- Type locality: 'in India'.
- Distribution: Okinawa (off Iejima), Ogasawara islands (Chichijima KIMURA, 1997).
- Original genus: *Murex*.

□ Genus *Simplicifusus* **KURODA et al., 1971**

Type species: *Fusinus simplex* E. A. SMITH, 1879 (o. d.) (= *Simplicifusus* KIRA, 1962 & 1964 *nom. nud.* See BIELER & PETIT, 1996-a: 33)

**Notes:** The type species of this genus is uncertain. *Simplicifusus noguchii* was named by HABE & MASUDA for all the Japanese material previously referred to as *S. simplex* (E. A. SMITH, 1879). KURODA et al. were presumably examining Japanese material when they designated '*Fusus simplex* (SMITH)' as the type species of *Simplicifusus*. The question of the type species of *Simplicifusus* is to be referred to the ICZN (R. PETIT, pers. comm.)

G3046 *S. noguchii* **HABE & MASUDA, 1990**

(= *Fusus simplex* E. A. SMITH *auct. non* E. A. SMITH, 1879)

Shiro-hime-naga-nishi

- Type locality: Enshū-nada, off Shizuoka prefecture, central Honshū.
- Distribution: Suruga bay and southwards, P6-P5, EC5, East China Sea, ECP4-ECP2; southern Korea.
- Habitat: 100-300 m., sand.

G3047 *S. hyphalus* (**M. SMITH, 1940**)

Watazoko-naga-nishi

- Type locality: Tosa bay (southern Shikoku), 100 fms.
- Distribution: Enshū-nada and westwards, P6-P5, EC5, East China Sea.
- Habitat: 100-300 m., sand.
- Original genus: *Fusinus*.

G3048 *S. graciliformis* (**SOWERBY II, 1880**)

(= *Fusus sieboldi* SCHEPMAN, 1891-a)

Hime-naga-nishi

- Type locality: 'Japan'.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, East China Sea, ECP4-ECP2, P2; Philippines, South China Sea.
- Habitat: 50-300 m., sand.
- Original genus: *Fusus*.

□ Genus *Granulifusus* **KURODA & HABE, 1954**

Type species: *Fusus niponicus* E. A. SMITH, 1879 (o. d.) (= *Granulifusus* KURODA & HABE, 1952-a *nom. nud.*)

G3049 *G. niponicus niponicus* (**E. A. SMITH, 1879**)

Yamato-arare-naga-nishi

- Type locality: 'Near Matoza, Nippon' (see note): 34° 12' N., 136° 28' E., 52 fms.
- Distribution: Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986) and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2; Philippines, western Pacific, Australia.
- Habitat: 50-300 m., sand.
- Original genus: *Fusus*.

**Note:** Smith's 'Matoza' could be Matzoa harbour, but this is in Okinawa; by 'Nippon' Smith usually meant Honshū. 'Tosa' (southern Shikoku) is another possibility. The coordinates given are for a point off Kii-Nagashima on the eastern side of the Kii peninsula, near Owase (Mie prefecture, central Honshū).

G3050 *G. niponicus suboblitus* (**PILSBRY, 1904-b**)

Sagami-arare-naga-nishi

- Type locality: 'Japan'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5.
- Habitat: 50-200 m., sand.
- Original genus: *Fusus*.

G3051 *G. kiranus* **SHUTŌ, 1958**

(= *G. kiranus* KURODA, MS *sensu* KIRA, 1954 *nom. nud.*)

Kira-arare-naga-nishi

- Type locality: 'Pacific coast of central Honshū, 100-150 m.' (*trans. auct.*) See note.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4, P2; Philippines, Australia.
- Habitat: 150-300 m., sand.

**Notes:** the type locality is that given with Kira's figure (1954: pl. 30, fig. 3) as Shuto refers to it specifically. The specimen figured by Kira may be considered the type. Kuroda et al. (1971) gave 'Tosa Bay, Shikoku (180 m deep)' as the type locality.

G3052 *G. hayashii* **HABE, 1961-a**

Yasa-naga-nishi (= Shinayaka-naga-nishi)

- Type locality: off Esuzaki (cape), Kii peninsula (Wakayama prefecture, central Honshū); 350-400 m.
- Distribution: Suruga bay and westwards, P6-P5, off southwestern Kyūshū.
- Habitat: 200-400 m., fine sand.

G3053 *G. musashiensis* (MAKIYAMA, 1922)

Musashino-arare-naga-nishi

- Type locality: Shitō, Ichihara City, Chiba prefecture, central Honshū (fossil).
- Distribution: off Chōshi (Chiba prefecture, central Honshū).
- Habitat: 50-250 m., sand.

G3054 *G. makiyamai* (ŌTSUKA, 1937)

(= *Fusus niponicus* SMITH *sensu* YOKOYAMA, 1920)

Makiyama-arare-naga-nishi

- Type locality: Shimo-miyata, Miura City, Kanagawa prefecture (near Tōkyō) (fossil).
- Distribution: Sagami bay.
- Habitat: 50-250 m., sand.
- Original genus: *Fusus*.

□ Genus *Trophonofusus* KURODA & HABE in KURODA *et al.*, 1971

Type species: *Trophon muricatoides* YOKOYAMA, 1920 (o. d.)

G3055 *T. muricatoides* (YOKOYAMA, 1920)

Futsutsuka-naga-nishi

- Type locality: Kami-miyata, Miura City, Kanagawa prefecture (near Tōkyō) (fossil).
- Distribution: off Chōshi (Chiba prefecture, central Honshū), Sagami bay.
- Habitat: 50-150 m., coarse sand and stones.
- Original genus: *Trophon*.

Family VOLUTIDAE RAFINESQUE, 1815

(Refs.: Kuroda & Habe, 1950-c; Poppe & Gotō, 1992)

Subfamily LYRIINAE PILSBRY & OLSSON, 1954

□ Genus *Lyria* GRAY, 1847

Type species: *Voluta nucleus* LAMARCK, 1811

(= *Otocheilus* CONRAD, 1865)

Subgenus *Lyria s. str.*

G3056 *L. (L.) nucleus* (LAMARCK, 1811)

(= *Voluta pattersonia* PERRY, 1811; *V. harpa* MAWE, 1823; *V. perdicina* MÜHLFELD, 1829; *L. opposita* IREDALE, 1937-a; *V. insignita* IREDALE, 1940; *L. peroniana* IREDALE, 1940; *L. pattersonia sensu* KURODA & HABE, 1950-c)

Une-suji-bora

- Type locality: 'la Mer du Sud' (southern Ocean).
- Distribution: Tateyama bay (Bōsō peninsula, central Honshū) and southwards, Ogasawara islands, P6-P5,

ECP4-ECP2, P2; Philippines, Australia.

- Habitat: 10-30 m., rocks.
- Original genus: *Voluta*.

G3057 *L. (L.) cassidula* (REEVE, 1849 in 1843-65)

Suji-bora

- Type locality: 'Japan'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4.
- Habitat: 50-200 m., fine sand.
- Original genus: *Voluta*.

G3058 *L. (L.) pallidula* HABE, 1961-a

(= *L. cassidula* REEVE *sensu* KURODA & HABE, 1950-c)

Usu-iro-suji-bora

- Type locality: off Cape Ashizuri, southwestern Shikoku; 50-100 m.
- Distribution: Bōsō peninsula and westwards, Izu islands, P7-P5.
- Habitat: 50-200 m., sand.

G3059 *L. (L.) habei* OKUTANI, 1979-a

(= *L. vicdani* KOSUGE, 1981; *L. (L.) reinai* ANGIOY & BIRAGHI, 1981; *L. (L.) dondani* ANGIOY & BIRAGHI, 1982)

Sarasa-suji-bora (= Habe-suji-bora; Hoso-suji-suji-bora; Fuiripin-suji-bora)

- Type locality: Hira-se bank, off Kyūshū: 30° 05.7' N., 130° 05.5' E.
- Distribution: southern Kyūshū and southwards, ECP4-ECP2, P2; Philippines to eastern Australia.
- Habitat: 50-150 m., sand.

G3060 *L. (L.) deliciosa* (MONTROUZIER, 1860)

Tsuya-suji-bora

- Type locality: 'L'Île Art, Archipel Calédonien' (New Caledonia).
- Distribution: 'Pacific side, 0°-27° N.' (KURODA & HABE, 1952-a); New Caledonia, Norfolk islands.
- Original genus: *Voluta*.

Subfamily FULGORARIINAE STOLICZKA, 1867

(Refs.: Shikama, 1967)

□ Genus *Fulgoraria* SCHUMACHER, 1817

Type species: *Voluta rupestris* GMELIN, 1791

Subgenus *Fulgoraria s. str.*

G3061 *F. (F.) rupestris aurantia* SHIKAMA, 1970

Kogane-hitachi-obi

- Type locality: off Hsuanteh islands, South China Sea; 180 m.
- Distribution: southwestern Kyūshū, East China Sea; off Taiwan, South China Sea.
- Habitat: 100-200 m., sandy mud.



G3062 *F. (F.) hamillei hamillei* (CROSSE, 1869-b)

(= *Voluta rupestris sensu* Y. HIRASE, 1908 (*pars*); *F. rupestris sensu* S. HIRASE, 1934; KURODA & HABE, 1950-c)

Itomaki-hitachi-obi

- Type locality: 'in insulis Salomonis, Oceaniae' (Solomon islands).
- Distribution: northwestern Kyūshū (Genkai-nada, from off Nagasaki to Koshiki islands); 'northern Taiwan to a point south of Sado Island, Honshū Island, Japan' (WEAVER & DUPONT, 1970).
- Habitat: 50-100 m., sandy mud.

G3063 *F. (F.) hamillei sinica* SHIKAMA, 1967-a

Ara-itomaki-hitachi-obi

- Type locality: fishing area 307, East China Sea off Gotō islands (western Kyūshū): 30° 30' N., 124° 30' E.
- Distribution: Kyūshū to mouth of Yangtse river, China.

G3064 *F. (F.) hamillei nipponkaiensis* SHIKAMA, 1967-a

Hime-itomaki-hitachi-obi

- Type locality: Japan Sea off Tajima, Hyōgo prefecture (central Honshū).
- Distribution: western Japan Sea (northwestern Yamaguchi prefecture to Toyama prefecture).
- Habitat: 80-200 m., sandy mud.

G3065 *F. (F.) hamillei tosaensis* SHIKAMA, 1967-a

Tosa-itomaki-hitachi-obi

- Type locality: off southern Miyazaki prefecture, Kyūshū.
- Distribution: Hyūga-nada (Miyazaki prefecture, southeastern Kyūshū) and northwards, Tosa bay, Enshū-nada.
- Habitat: 50-100 m., sandy mud.

Subgenus *Psephaea* CROSSE, 1871

Type species: *Voluta concinna* BRODERIP, 1836  
(= *Mioleione* DALL, 1907)

G3066 *F. (P.) concinna concinna* (BRODERIP, 1836-a)

(= *F. coninna (sic)* (BRODERIP) *sensu* HABE, 1943)  
Nishiki-hitachi-obi

- Type locality: none originally designated; 'Japan' on BMNH label with holotype.
- Distribution: Suruga bay and westwards to Tosa bay, Japan Sea (off Tajima, Hyōgo prefecture).
- Habitat: 150-400 m., sandy mud.
- Original genus: *Voluta*.

G3067 *F. (P.) concinna corrugata* SHIKAMA, 1967-a

Shiwa-hitachi-obi

- Type locality: Enshū-nada (off Shizuoka prefecture, central Honshū).
- Distribution: Suruga bay and westwards, Enshū-nada, east off Kii peninsula.

- Habitat: 100-150 m., fine sand and mud.

G3068 *F. (P.) concinna rosea* SHIKAMA, 1967-a

Akane-hitachi-obi

- Type locality: off Atami, western Sagami bay.
- Distribution: Sagami bay.
- Habitat: 100-150 m., fine sand and mud.

G3069 *F. (P.) exoptanda* SHIKAMA, 1967-a

Daruma-hitachi-obi

- Type locality: southwestern Taiwan (possibly erroneous).
- Distribution: off Chōshi (Chiba prefecture, central Honshū), off Gotō islands (western Kyūshū).
- Habitat: 100-200 m., sandy mud.

G3070 *F. (P.) kaneko kaneko* HIRASE, 1922

Kaneko-hitachi-obi

- Type locality: Japan Sea (off Tango peninsula, Kyōto prefecture, central Honshū).
- Distribution: Japan Sea (Noto peninsula and southwards; off Shimane prefecture; northern Yamaguchi prefecture; Korea strait); Korea (Pusan).
- Habitat: 150-300 m., sandy mud.

G3071 *F. (P.) kaneko hayashii* HABE & ITŌ, 1965-b

Shinatsukuri-hitachi-obi (= Shinayaka-hitachi-obi)

- Type locality: Japan Sea off Kasumi (Hyōgo prefecture, central Honshū); ± 200 m.
- Distribution: Japan Sea (off Kasumi; off Tajima; off San'in; Tottori prefecture to northern Yamaguchi prefecture), northwestern Kyūshū.
- Habitat: 100-300 m., sand.

G3072 *F. (P.) kaneko itoi* SHIKAMA, 1967-a

Ito-hitachi-obi

- Type locality: east of Oki island, Japan Sea.
- Distribution: Japan Sea (off Fukui prefecture to Oki islands).
- Habitat: 100-150 m., sandy mud.

G3072-1 *F. (P.) kaneko yamamotoi* SHIKAMA, 1967-a

Yamamoto-hitachi-obi

- Type locality: southwest off Cheju island, Korea.
- Distribution: Korea strait to western Kyūshū (off Cape Nomozaki to Nagasaki prefecture).
- Habitat: 100-200 m., sandy mud.

G3073 *F. (P.) daviesi* (FULTON, 1938)

(= *Voluta rupestris* GMELIN *sensu* Y. HIRASE, 1908 (*pars*); *Fulgoraria* sp. *sensu* S. HIRASE, 1934)  
Shima-hitachi-obi

- Type locality: 'Kii' (Kii peninsula, central Honshū).
- Distribution: off Kii peninsula and westwards, Tosa bay.
- Habitat: 150-250 m., fine sand.
- Original genus: *Voluta*.

G3074 *F. (P.) mentiens* (FULTON, 1940)

Hoso-hitachi-obi

- Type locality: 'Tosa' (Tosa bay, southern Shikoku).
- Distribution: Suruga bay, Tosa bay, Hyūga-nada, southwestern Kyūshū.
- Habitat: 100-200 m., sandy mud.

Subgenus *Nipponomelon* SHIKAMA, 1967

Type species: *Voluta prevostiana* CROSSE, 1878 (o. d.)

G3075 *F. (N.) prevostiana* (CROSSE, 1878-b)

(= *Voluta lyriformis* SWAINSON *sensu* KIENER, 1839; *V. (Alcithoe) megaspira* SOWERBY *sensu* TRYON, 1882; *Musashia (Nipponomelon) angulosa* SHIKAMA, 1967-a) Hon-hitachi-obi (= Sagami-hitachi-obi)

- Type locality: 'in Japonia' ('selected Sagami Bay, by SHIKAMA, 1967' given in KURODA *et al.*, 1971, but Shikama did not apparently cite or formally restrict the type locality).
- Distribution: Sagami bay (OKUTANI, 1964-b), Bōsō peninsula, Iwate prefecture (Ōtsuchi bay TSUCHIDA, 1991), Hokkaidō (POPPE & GOTŌ, 1992), Japan Sea (off Niigata prefecture and westwards; off Sado island; off Tajima).
- Habitat: 50-450 m., mud.
- Original genus: *Voluta*.

G3076 *F. (N.) megaspira* SOWERBY I, 1844-c

Maboroshi-hitachi-obi

- Type locality: none originally given; 'Japan (Siebold)' given by REEVE, 1849 in 1843-65.
- Distribution: Sagami bay (OKUTANI, 1983).

G3077 *F. (N.) magna* KURODA & HABE in HABE, 1950

Ō-hitachi-obi (= Hitachi-obi)

- Type locality: 'Hitachi province' (Ibaraki prefecture, central Honshū).
- Distribution: Sagami bay and northwards, P8-P10, Japan Sea (off central Niigata prefecture and northwards, Oga peninsula).
- Habitat: 50-600 m., mud.

G3078 *F. (N.) salebroso* (SHIKAMA, 1967-a)

Ezo-hitachi-obi

- Type locality: Urakawa, Hidaka region, southeastern Hokkaidō.
- Distribution: Japan Sea (Sado island and northwards, J3-J4), southwestern Hokkaidō.
- Habitat: 50-200 m., mud.
- Original genus: *Musashia (Nipponomelon)*, as ssp. of *M. prevostiana*.

G3078-1 *F. (N.) elongata* SHIKAMA, 1962-a

Naga-hitachi-obi

- Type locality: 'East of Chōshi' (Chiba prefecture, central Honshū); 250-400 fms., fine sand.

• Distribution: off Chōshi.

• Habitat: 80-800 m., mud.

**Notes:** originally in subgenus *Psephaea*.

G3079 *F. (N.) kamakurensis* ŌTSUKA, 1949

(= *Voluta megaspira* SOWERBY *sensu* YOKOYAMA, 1920)

Kamakura-hitachi-obi

- Type locality: Koshiba, Miura peninsula near Yokohama City (fossil).
- Distribution: Izu islands (off Hachijō island, 430-460 m. OKUTANI, 1964-b; 1968).

**Notes:** originally in subgenus *Psephaea*.

Subgenus *Musashia* HAYASHI, 1960-a

Type species: *Voluta hirasei* SOWERBY III, 1912 (o. d.)

G3080 *F. (M.) hirasei* (SOWERBY III, 1912)

(= *Voluta prevostiana sensu* CROSSE, 1879 *non* CROSSE, 1878)

Niku-iro-hitachi-obi

- Type locality: 'Kii, Japan' (Kii peninsula, central Honshū).
- Distribution: Suruga bay, Enshū-nada (440 m.; 620 m. OKUTANI, 1964-b), Kii peninsula, Tosa bay, Genkai-nada (northwestern Kyūshū).
- Habitat: 100-300 m., mud.
- Original genus: *Voluta*.

G3081 *F. (M.) cancellata* (KURODA & HABE, 1950-c)

Chirimen-hitachi-obi

- Type locality: Tosa bay (southern Shikoku).
- Distribution: Suruga bay, Kii peninsula, Tosa bay, southwestern Kyūshū.
- Habitat: 200-300 m., fine sand and mud.

G3082 *F. (M.) clara* (SOWERBY III, 1914-e)

Tsuya-hitachi-obi

- Type locality: 'Kii, Honshū' (Kii peninsula, central Honshū).
- Distribution: western Suruga bay to Tosa bay.
- Habitat: 100-400 m., fine sand and mud.
- Original genus: *Voluta*.

G3083 *F. (M.) noguchii* HAYASHI, 1960-a

Noguchi-hitachi-obi

- Type locality: Enshū-nada (off Aichi prefecture, central Honshū).
- Distribution: Suruga bay, Enshū-nada (440 m. OKUTANI, 1964-b) to eastern Kii peninsula.
- Habitat: 100-150 m., fine sand and mud.

Subgenus *Kurodina* REHDER, 1969-a

Type species: *Voluta smithi* SOWERBY III, 1901 (o. d.)

G3084 *F. (K.) smithi* (SOWERBY III, 1901)

(= *Voluta uniplicata* SOWERBY III, 1900 *non* SOWERBY II, 1850)

Usu-hitachi-obi

- Type locality: 'Japan'.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards (Sagami bay OKUTANI, 1964-b; 1968), Enshū-nada, Kii peninsula.
- Habitat: 200-1000 m., mud.
- Original genus: *Voluta*.

□ Genus *Saotomea* HABE, 1943

Type species: *Voluta (Fulgoraria) delicata* FULTON, 1940 (o. d.)

G3085 *S. delicata* (FULTON, 1940)

Sa-otome-hitachi-obi (= Hina-hitachi-obi)

- Type locality: 'Tosa' (Tosa bay, southern Shikoku).
- Distribution: Suruga bay and westwards, Kii peninsula (TSUCHIDA, 1985-b), Tosa bay, southwestern Kyūshū (off Makurazaki; off Koshiki islands).
- Habitat: 150-500 m., sandy mud.
- Original genus: *Voluta (Fulgoraria)*.

Subfamily CYMBIINAE H & A. ADAMS, 1853 in 1853-58

□ Genus *Cymbiola* SWAINSON, 1831

Type species: *Voluta cymbiola* GMELIN, 1791 (= *Ausoba* H. & A. ADAMS, 1853)

Subgenus *Aulica* GRAY, 1847

Type species: *Voluta scapha* GMELIN, 1791 (= *Volutocorona* PILSBRY & OLSSON, 1954)

G3086 *C. (Ac.) vesperilio* (LINNAEUS, 1758)

(= *Voluta pellisserpentis* LAMARCK, 1811; *V. mitis* LAMARCK, 1811; *V. serpentina* LAMARCK, 1811; *V. lineolata* KÜSTER, 1841)

Tō-kōrogi

- Type locality: 'in *O. utriusque Indiae*' (coastal seas of India).
- Distribution: Yaeyama islands and southwards, ECP2, P2; Philippines, Australia.
- Habitat: intertidal to 20 m., mud.
- Original genus: *Voluta*.

Subfamily ZIDONINAE H. & A. ADAMS, 1853 in 1853-58

(= ALCITHONINAE PILSBRY & OLSSON, 1954)

□ Genus *Arctomelon* DALL, 1915

Type species: *Voluta stearnsii* DALL, 1872 (o. d.) (= *Boreomelon* DALL, 1918)

G3087 *A. tamikoe* (KOSUGE, 1970-a)

Tamiko-bora

- Type locality: fishing area 340, East China Sea off Gotō islands, western Kyūshū.
- Distribution: recorded only from type locality.
- Habitat: 100-200 m., mud.
- Original genus: *Boreomelon*.

Subfamily CALLIOTECTINAE PILSBRY & OLSSON, 1954

□ Genus *Calliotectum* DALL, 1890

Type species: *Mangilia (Calliotectum) vernicosum* DALL, 1890 (o. d.)

(= *Teramachia* KURODA, 1931-b; *Howellia* CLENCH & AGUAYO, 1941; *Prodallia* BARTSCH, 1915)

G3088 *C. tibiaeformis* (KURODA, 1931-b)

Teramachi-bora

- Type locality: Kii peninsula, central Honshū.
- Distribution: Kii peninsula and southwards, P5, Japan Sea (Wakasa bay, J2-J1), EC5, East China Sea, ECP3-ECP2, P2; Philippines.
- Habitat: 150-500 m., sandy mud.
- Original genus: *Teramachia*.

G3089 *C. johnsoni* (BARTSCH, 1942)

Jonson-watazoko-bora

- Type locality: 'Albatross' sta. 5424; off Cagayan island, Sulu sea, Philippines.
- Distribution: off western Okinawa islands (200-250 m.); off Taiwan, Philippines.
- Habitat: 300-800 m., mud.
- Original genus: *Prodallia*.

Family OLIVIDAE LATREILLE, 1825

(Refs.: Kuroda, 1971; Petuch & Sargent, 1986)

Subfamily OLIVINAE LATREILLE, 1825

□ Genus *Oliva* BRUGUIÈRE, 1792 in 1789-1816

Type species: *Voluta oliva* LINNAEUS, 1758

(= *Porphyria* RÖDING, 1798; *Olivaria* RAFINESQUE, 1815; *Ispidula* GRAY, 1847; *Dactylidia* H. & A. ADAMS, 1853)

Subgenus *Oliva s. str.*

G3090 *O. (O.) oliva* (LINNAEUS, 1758)

(= *Voluta aurea* MARTINI, 1773; *Porphyria ispidula, mica, ornata, punctata, umbrosa* all RÖDING, 1798; *O. ispidula* FISCHER, 1807; *O. candida* LAMARCK, 1811; *O. variabilis* GRAY, 1858; *O. fenestrata, samarensis* JOHNSON, 1915; *O. algida* VANATTA, 1915)

Hon-makura-gai (= Hai-iro-makura; Akane-kuchiguro-makura-modoki; Kuchiguro-makura; Iro-nuki-kuchiguro-makura; Kinguchi-kuchiguro-makura; Torafu-hai-iro-makura)

- Type locality: 'in *M. Indico*'.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, western Pacific, Australia, Melanesia.
- Habitat: intertidal to 5 m., sand.
- Original genus: *Voluta*.

**Notes:** many colour forms of this species have been named (here considered synonyms), including: *dealbata* RÖDING,

1798 (milky white or bluish); *oriola* LAMARCK, 1811 (black); *flaveola* DUCLOS, 1835 (golden); *jayana* DUCROS de ST-GERMAIN, 1835 (with white triangles and dots); *tigridella* DUCLOS, 1835 (zebra pattern).

Subgenus *Acutoliva* PETUCH & SARGENT, 1986

Type species: *Oliva panniculata* DUCLOS, 1835 (o. d.)

G3091 *O. (A.) panniculata* DUCLOS, 1835 in 1835-40 (= *O. ozodona* DUCLOS, 1835; *O. kurzi* PETUCH & SARGENT, 1986)

Kinu-matoi-makura

- Type locality: none designated.
- Distribution: Hachijō island (KATŌ, 1991), Okinawa (off Nago); Melanesia, Micronesia, Indonesia.

G3092 *O. (A.) duclosi* REEVE, 1850 in 1843-65

(= *O. duclosiana* JAY, 1850; *O. jaspida* DUCLOS, 1835 non FISCHER, 1807; *O. stainforthi* REEVE, 1850)

Hon-sarasa-makura

- Type locality: Banguey, island of Luzon, Philippines (on sand at low water) and Society islands (in coral sand at low water).
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, western Pacific, Polynesia.
- Habitat: intertidal to 10 m., sand.

G3093 *O. (A.) lentiginosa* REEVE, 1850 in 1843-65

(= *O. duclosi* REEVE *sensu* IWAKAWA, 1919; KURODA, 1928; KURODA & HABE, 1952-a)

Sarasa-makura

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, western Pacific.
- Habitat: intertidal to 10 m., sand.

G3094 *O. (A.) williamsi* MELVILL & STANDEN, 1897

Yanagi-shibori-makura

- Type locality: Loyalty islands, New Caledonia.
- Distribution: Hachijō island (KATŌ, 1991); Indian Ocean, Indonesia.
- Habitat: shallow water.

Subgenus *Annulatoliva* PETUCH & SARGENT, 1986

Type species: *Voluta annulata* GMELIN, 1791 (o. d.)

G3095 *O. (An.) annulata* (GMELIN, 1791)

(= *Voluta leucophaea* GMELIN, 1791; *Porphyria cincinata* RÖDING, 1798; *O. aurata* LINK, 1807; *O. cruenta* DILLWYN, 1817; *O. balteata* DILLWYN, 1817) Otome-makura (= Satsuma-bina; Niku-iro-makura; Sawa-bina; Mizutama-makura; Takasago-bina; Kadobari-takasago-bina; Boke-satsuma-bina)

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Indo-western Pacific, Australia.

- Habitat: intertidal to 20 m., sand.

- Original genus: *Voluta*.

**Notes:** many forms of this species have been named (here considered synonyms), including: *amethystina* RÖDING, 1798 (bright salmon-pink); *guttata* FISCHER, 1807 (dark pink spots); *mantichora* DUCLOS, 1835 (swollen shoulder); *carnicolor* DAUTZENBERG, 1927 (deep pinkish-orange); *intricata* DAUTZENBERG, 1927 (pinkish-cream); *nebulosa* DAUTZENBERG, 1927 (mottled or clouded pattern).

G3096 *O. (An.) aniomina* DUCLOS, 1835 in 1835-40 Murakumo-makura

- Type locality: none designated.
- Distribution: Japan (ZIEGLER & PORRECA, 1969); Papua New Guinea, Solomon islands.

Subgenus *Cariboliva* PETUCH & SARGENT, 1986

Type species: *Oliva scripta* LAMARCK, 1811 (o. d.)

G3097 *O. (Ca.) scripta* LAMARCK, 1811 in 1810-11

Tsuzure-makura

- Type locality: none designated.
- Distribution: Japan (ZIEGLER & PORRECA, 1969); Taiwan (KURODA, 1941c).

Subgenus *Carmione* GRAY, 1858

Type species: *Oliva inflata* LAMARCK, 1811 (= *Porphyria bulbosa* RÖDING, 1798)

G3098 *O. (C.) bulbosa* (RÖDING, 1798)

(= *O. inflata*, *bicingulata*, *fabagina*, all LAMARCK, 1811 in 1810-11; *O. ventricosa* DILLWYN, 1817; *O. bicincta* LAMARCK, 1822 in 1815-22; *O. lacertina* QUOY & GAIMARD, 1825; *O. gibbosa* DESHAYES, 1844; *O. crassa* MÖRCH, 1852; *O. ovum-ralli* FORD, 1889; *O. alba* JOHNSON, 1915; *O. immaculata* VANATTA, 1915;) Sekitori-makura

- Type locality: none designated.
- Distribution: P2; Taiwan and southwards, Philippines, western Pacific, southeast Africa.
- Habitat: intertidal, sand.
- Original genus: *Porphyria*.

G3099 *O. (C.) bulbiformis* DUCLOS, 1835 in 1835-40 Kamon-makura

- Type locality: none designated.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, tropical Pacific.
- Habitat: intertidal to 20 m., sand.

G3100 *O. (C.) funebris* LAMARCK, 1811 in 1810-11

(= *O. avellana* MARRAT, 1871 non LAMARCK, 1811) Kurofu-makura (= Nise-kurofu-makura)

- Type locality: 'l'Océan des grandes Indes'.
- Distribution: P2; Taiwan and southwards, Philippines,

Indo-Pacific, Fiji.

- Habitat: intertidal, sand.

G3101 *O. (C.) carneola* (GMELIN, 1791)

(= *O. aurora* FISCHER, 1807; *O. candidula*, *coccinata*, *trichroma*, *unizonalis*, all DAUTZENBERG, 1927; *O. violacea* PRIOR, 1975)

Hina-makura (= Hina-makura-modoki; Futa-obi-hina-makura)

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Indo-western Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Voluta*.

**Notes:** forms of this species have been named (here considered synonyms) including: *adspersa* DAUTZENBERG, 1927 (scattered pattern) and *bizonalis* DAUTZENBERG, 1927 (two white bands).

G3102 *O. (C.) volvaroides* DUCLOS, 1835 in 1835-40

Ko-kizami-makura

- Type locality: none designated.
- Distribution: 'Ryūkyū islands & Japan' (PETUCH & SARGENT, 1986); Okinawa (KATŌ, 1991); Polynesia, Micronesia to east Africa.

Subgenus *Miniaceoliva* PETUCH & SARGENT, 1986

Type species: *Porphyria miniacea* RÖDING, 1798 (o. d.)

G3103 *O. (M.) miniacea* (RÖDING, 1798)

(= *O. miniata* LINK, 1807; *O. erythrostoma* LAMARCK, 1811)

Judō-makura (= Akane-judō-makura; Murasaki-judō-makura; Kasumi-judō-makura; Shakudō-judō-makura; Sabi-iro-judō-makura; Mochihada-judō-makura; Futo-obi-judō-makura; Kogane-judō-makura; Funashi-makura)

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Australia.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Porphyria*.

**Notes:** many forms of this species have been named (here considered synonyms), including: *aurantiaca* SCHUMACHER, 1817 (bright orange); *azemula* DUCLOS, 1835; *johnsoni* HIGGINS, 1919 (mottled or clouded pattern); *marrati* JOHNSON, 1910 (black); *masaris* DUCLOS, 1835 (brown to tan); *titea* DUCLOS, 1844 (pure white); *saturata* DAUTZENBERG, 1927 (dark pattern); *sylvia* DUCLOS, 1835 (orange-red); *efasciata* DAUTZENBERG, 1927 (patternless).

G3104 *O. (M.) caerulea* (RÖDING, 1798)

(= *O. episcopalis* LAMARCK, 1811; *O. lugubris* LAMARCK, 1811; *O. emeliodina* DUCLOS, 1844; *O. philippensis* BARTSCH, 1918)

Kaneko-makura

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, Polynesia, Red Sea to east Africa.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Porphyria*.

G3105 *O. (M.) hirasei* KIRA, 1959-a

Kuchijiro-makura

- Type locality: Okinawa.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Indonesia.
- Habitat: intertidal to 20 m., sand.

G3106 *O. (M.) irisans* LAMARCK, 1811 in 1810-11

(= *O. ornata* MARRAT, 1867; *O. lignaria* MARRAT, 1867; *O. irisans forma cryptospira* FORD, 1891; *O. irisans forma fordii* JOHNSON, 1910)

Numeri-makura (= Kuri-iro-makura)

- Type locality: none designated.
- Distribution: southern Kyūshū and southwards, ECP4-ECP2, P2; Philippines, western Pacific, northern Australia.
- Habitat: intertidal, sand.

G3107 *O. (M.) sericea* (RÖDING, 1798)

(= *O. granitella* LAMARCK, 1811; *O. textilina* LAMARCK, 1811; *O. sabulosa* MARRAT, 1868; *O. irisans tremulina sensu* IWAKAWA, 1919)

Ō-judō-makura (= Kogashira-makura; Neboke-makura)

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific, Australia.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Porphyria*.

G3108 *O. (M.) tremulina* LAMARCK, 1811 in 1810-11

(= *O. zeilanica* LAMARCK, 1811; *O. hepatica* LAMARCK, 1811; *O. obtusaria* LAMARCK, 1822 in 1815-22; *O. nobilis* REEVE, 1850; *O. sericea irisans sensu* KURODA, 1928; *O. erythrostoma irisans sensu* KURODA, 1941)

Shiritaka-makura (= Aimai-shiritaka-makura; Shiritaka-makura-modoki)

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, east Africa to Indonesia.
- Habitat: intertidal to 20 m., sand.

Subgenus *Multiplicoliva* PETUCH & SARGENT, 1986

Type species: *Oliva multiplicata* REEVE, 1850 (o. d.)

G3109 *O. (Mu.) multiplicata* REEVE, 1850 in 1843-65

Sanagi-makura

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, ECP4-

ECP2, P2; Philippines, Indonesia.

- Habitat: 50-100 m., sand.

Subgenus *Musteloliva* **PETUCH & SARGENT, 1986**

Type species: *Oliva mustelina* LAMARCK, 1811 (o. d.)

G3110 *O. (Ms.) mustelina mustelina* LAMARCK, 1811 in 1810-11

Makura-gai

- Type locality: 'probablement l'Océan américain' (erroneous).
- Distribution: Bōsō peninsula and southwards, P7-P5, Ōsaka bay (OKAMURA & KOJIMA, 1984), Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2; Philippines, Korea, Indo-Pacific, Australia.
- Habitat: 5-30 m., fine sand.

G3111 *O. (Ms.) mustelina inornata* MARRAT, 1871 in 1870-71

Mon-nashi-makura

- Type locality: 'Fiji Islands'.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, Australia.
- Habitat: intertidal to 35 m., sand.

G3112 *O. (Ms.) concavospira* SOWERBY III, 1914-b

Hekomi-makura

- Type locality: 'Loo Choo' (Okinawa).
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, Indonesia.
- Habitat: 20-100 m., sand.

Subgenus *Neocylindrus* **FISCHER, 1883**

Type species: *Oliva tessellata* LAMARCK, 1811 (= *O. guttata* FISCHER, 1807)

G3113 *O. (N.) guttata* FISCHER von WALDHEIM, 1807

(= *O. tessellata* LAMARCK, 1811)

Ruriguchi-makura

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific, Australia, Solomon islands.
- Habitat: intertidal to 30 m., sand.

**Notes:** the type is probably lost (IVANOV *et al.*, 1993).

Subgenus *Omogymna* **MARTENS, 1897**

Type species: *Oliva paxillus* REEVE, 1850

G3114 *O. (Om.) paxillus* REEVE, 1850 in 1843-65

(= *O. thomasi* CROSSE, 1861)

Nan'yō-bina (= Nan'yō-makura)

- Type locality: none designated; 'Mauritus' later added to board in BMNH to which holotype was fixed.
- Distribution: Okinawa islands and southwards, west of Hachijō island, P11, northern Ogasawara islands, ECP2,

P2; Philippines, western Pacific, Polynesia, east Africa.

- Habitat: intertidal, sand.

G3115 *O. (Om.) sandwicensis* PEASE, 1860

Hawai-makura

- Type locality: 'Sandwich islands' (Hawaii).
- Distribution: Okinawa islands and southwards, Hachijō island and westwards, P11, northern Ogasawara islands, ECP2, P2; Hawaii.
- Habitat: intertidal, sand.

Subgenus *Rufoliva* **PETUCH & SARGENT, 1986**

Type species: *Oliva rufula* DUCLOS, 1835 (o. d.)

G3116 *O. (R.) rufula rufula* DUCLOS, 1835

Irezumi-makura

- Type locality: 'Amboina' (Ambon island, Moluccas (Maluku), Indonesia).
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines to Solomon islands.
- Habitat: subtidal to deep water, sand.

G3117 *O. (R.) rufula tectiphora* PETUCH & SARGENT, 1986

Ichimatsu-irezumi-makura

- Type locality: north off Siasi island, Sulu Sea, Philippines; 200 m.
- Distribution: Okinawa to Philippines (KATŌ, 1991).

Subgenus *Viduoliva* **PETUCH & SARGENT, 1986**

Type species: *Porphyria vidua* RÖDING, 1798 (o. d.)

G3118 *O. (V.) vidua* (RÖDING, 1798)

(= *O. fusca* LINK, 1807; *O. maura* LAMARCK, 1810; *O. mauritiana* MARRAT, 1871)

Iro-gawari-makura (= Konjiki-iro-gawari-makura;

Usuboke-iro-gawari-makura; Asayake-iro-gawari-makura; Kuro-obi-iro-gawari-makura; Komon-iro-gawari-makura; Sazanami-iro-gawari-makura; Shirako-iro-gawari-makura; Midori-makura)

- Type locality: none designated.
- Distribution: southern Okinawa and southwards, ECP2, P2; Philippines, Indo-Pacific, Australia.
- Habitat: intertidal, sand.
- Original genus: *Porphyria*.

**Notes:** many forms of this species have been named (here considered synonyms), including: *aurata* RÖDING, 1798 (golden-yellow); *fenestrata* RÖDING, 1798 (dense, reticulate pattern); *fulminans* LAMARCK, 1811 (black zigzag pattern); *sepulturalis* LAMARCK, 1811 (dark grey or greenish-grey); *albofasciata* DAUTZENBERG, 1927 (with white bands); *rumphi* DAUTZENBERG, 1927 (grey, reticulate pattern); *cincta* DAUTZENBERG, 1927 (with dark bands); *cinnamomea* MENKE, 1830 (red or orange-brown).

G3119 *O. (V.) elegans* LAMARCK, 1811 in 1810-11

Hoso-komon-makura (= Usu-iro-komon-makura; Kokuten-hoso-komon-makura; Akane-hoso-komon-makura; Jiguzagu-hoso-komon-makura)

- Type locality: none designated.
- Distribution: Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; Korea, Philippines, Indian Ocean, Indonesia, Australia, Melanesia
- Habitat: intertidal to 20 m., sand.

**Notes:** many colour forms of this species have been named (here considered synonyms), including: *zigzag* PERRY, 1811 (zigzag pattern); *othonia* DUCLOS, 1835 (blue dots); *pintamella* DUCLOS, 1835 (salmon-orange).

G3120 *O. (V.) hemiltona* DUCLOS, 1835

Nise-komon-makura

- Type locality: 'Les mers de la Chine' (China Seas).
- Distribution: Amami islands and southwards, ECP3-ECP2, 'Volcano islands' (PETUCH & SARGENT, 1986; KATŌ, 1991; probably reference to Kazan (southern Ogasawara) islands).

G3121 *O. (V.) reticulata* (RÖDING, 1798)

(= *Porphyria variabilis* RÖDING, 1798; *P. variegata* RÖDING, 1798; *O. sanguinolenta* LAMARCK, 1811)

Kuchibeni-makura (= Yuyami-kuchibeni-makura; Obi-shime-kuchibeni-makura; Aimai-kuchibeni-makura; Iroboke-kuchibeni-makura; Jiguzagu-kuchibeni-makura)

- Type locality: none designated.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Porphyria*.

**Notes:** many colour forms of this species have been named (here considered synonyms), including: *evania* DUCLOS, 1835 (with two bands); *viridescens* MARRAT, 1870 (bright olive-green); *zebra* WEINKAUFF, 1878 (zigzag pattern); *pallida* DAUTZENBERG, 1927 (white or pale cream); *azona* DAUTZENBERG, 1927 (dark colouration).

G3122 *O. (V.) tricolor* LAMARCK, 1811 in 1810-11

(= *O. tringa* DUCLOS, 1835; *O. guttula* MARRAT, 1871; *O. duclosi* REEVE *sensu* IWAKAWA, 1919; *O. palawanensis* BARTSCH, 1923)

Sanshiki-makura (= Kasumi-sanshiki-makura; Yamiyo-sanshiki-makura)

- Type locality: 'l'Océan des grandes Indes, les côtes de Timor, de Java, etc'.
- Distribution: P2; Taiwan and southwards, Philippines, Indonesia, tropical Indo-Pacific, east Africa.
- Habitat: intertidal, sand.

**Notes:** colour forms of this species have been named (here considered synonyms), including: *subviridis* PERRY, 1811 (solid dark green) and *philantha* DUCLOS, 1835 (salmon-

orange with blue spots).

□ Genus *Tateshia* KOSUGE, 1986-c

Type species: *Tateshia yadai* KOSUGE, 1986 (o. d.)

**Note:** the placement of this genus in the Olividae is provisional.

G3123 *T. yadai* KOSUGE, 1986-c

Kasago-nakase

- Type locality: off Koshiki islands, Kagoshima prefecture (southern Kyūshū), 300 m.
- Distribution: off western Kyūshū, off Yakushima.
- Habitat: ectoparasitic on the fish *Helicolenus hilgendorfi*.

Subfamily ANCILLINAE SWAINSON, 1835

□ Genus *Gracilancilla* THIELE, 1925

Type species: *Ancilla (Gracilancilla) sumatrana* THIELE, 1925 (o. d.)

G3124 *G. sumatrana* (THIELE, 1925)

Kaguya-hime-botaru

- Type locality: Nias strait, off western Sumatra, Indonesia; 470-660 m.
- Distribution: western Kii peninsula (off Susami, 455-492 m.), southwestern Shikoku (southwest off Cape Ashizuri, 1092-1094 m.), Tanegashima & Yakushima (993-1031 m. TSUCHIDA, 1993), off Amami Ōshima; Indonesia.
- Original genus: *Ancilla (Gracancilla)*.

□ Genus *Ancilla* LAMARCK, 1799

Type species: *Ancillaria cinnamomea* LAMARCK, 1811 (ICZN Official List of Generic Names no. 170)

(= *Anaulax* ROISSY, 1805; *Ancillaria* LAMARCK, 1811; *Dipsaccus* H. & A. ADAMS, 1853; *Anaulacia* FISCHER, 1881; *Cymbancilla* FISCHER, 1881; *Spirancilla* VOKES, 1936)

Subgenus *Ancillus* MONTFORT, 1810 in 1808-10

Type species: *Ancilla buccinoides* LAMARCK, 1803 (= *Turrancilla* MARTENS, 1904)

G3125 *Ancilla (Ancillus) suavis* YOKOYAMA, 1922

(= *Turrancilla apicalis* KIRA, 1959-a)

Hozaki-ryūgū-botaru

- Type locality: Kanagawa prefecture, near Tōkyō (fossil).
- Distribution: Enshū-nada and westwards, P6-P5, off Kii peninsula, Tosa bay (100-500 m., fine sand), western Kyūshū (730-760 m. OKUTANI, 1964-b).

□ Genus *Amalda* H. & A. ADAMS, 1853

Type species: *Ancillaria tankervillei* SWAINSON, 1825 (s. d. VOKES, 1939)

(= *Sandella* GRAY, 1857)

Subgenus *Amalda s. str.*

G3126 *A. (A.) mamilla* (SOWERBY I, 1844-c)

Takasago-botaru (= Takasago-ryūgū-botaru; Taiwan-ryūgū-botaru)

- Type locality: China Sea.
- Distribution: southern Okinawa and southwards; Taiwan, South China Sea.
- Habitat: 10-50 m., sand.
- Original genus: *Voluta*.

Subgenus *Alcospira* COSSMANN, 1899

Type species: *Oliva papillata* TATE, 1885

G3127 A. (*Alcospira*) *hayashii* NINOMIYA, 1988-b

Kisaki-ryūgū-botaru

- Type locality: Amami Ōshima.
- Distribution: recorded only from type locality.

Subgenus *Baryspira* FISCHER, 1883

Type species: *Ancilla australis* SOWERBY I, 1830 (s. d. IREDALE, 1924)

(= *Gamaspira* OLSSON, 1956)

G3128 A. (*B.*) *hilgendorfi* (MARTENS, 1897)

Takenoko-botaru

- Type locality: 'Japan'.
- Distribution: Kashima-nada (off Ibaraki prefecture) and westwards, Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986), Izu islands (off Hachijō island, 455-510 m. OKUTANI, 1964-b; 1966; off Miyake island OKUTANI, 1968), P8-P5, off southwestern Kyūshū, ECP4-ECP2, P2; Philippines, Australia.
- Habitat: 150-300 m., sand.
- Original genus: *Ancillaria*.

G3129 A. (*B.*) *rubiginosa rubiginosa* (SWAINSON, 1832)

Togari-ryūgū-botaru

- Type locality: 'China'.
- Distribution: western Kyūshū, off Amami islands, East China Sea.
- Habitat: 50-100 m., sand.
- Original genus: *Ancilla*.

G3130 A. (*B.*) *rubiginosa albocallosa* (LISCHKE, 1873 in 1868-73)

Ryūgū-botaru

- Type locality: 'Nagasaki' (western Kyūshū).
- Distribution: Bōsō peninsula and westwards, P7-P5, Seto inland sea, Tosa bay, Japan Sea (off Mishima); Korea.
- Habitat: 50-400 m., sand.
- Original genus: *Ancilla*.

G3131 A. (*B.*) *aureocallosa* (SHIKAMA & ŌISHI in SHIKAMA, 1977)

Kogane-botaru

- Type locality: 'East China Sea near off West Kyūshū'.
- Distribution: recorded only from type locality.
- Original genus: *Baryspira*.

**Notes:** originally described as a ssp. of *B. utopica*, a Kuroda MS name.

G3132 A. (*B.*) *hinomotoensis* (YOKOYAMA, 1922) (= *Ancilla rubiginosa sensu* YOKOYAMA, 1926 non SWAINSON, 1832; *Baryspira urasima* KIRA, 1959-a) Urashima-botaru (= Hinomoto-botaru)

- Type locality: Shitō, Ichihara City, Chiba prefecture, central Honshū (fossil).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5.
- Habitat: 50-200 m., sandy mud.
- Original genus: *Ancilla*.

G3133 A. (*B.*) *otohime* MAJIMA, TSUCHIDA & ŌSHIMA, 1993

(= *Ancilla otohime* Is. TAKI, 1938-e nom. nud.)

Otohime-botaru

- Type locality: off Cape Daiō, Mie prefecture (central Honshū): 34° 11.1' N., 136° 38.8' E., 148-149 m., sandy mud.
- Distribution: western Izu peninsula, Enshū-nada, Kii peninsula, Tosa bay, Kyūshū.
- Habitat: 50-200 m., sandy mud.

G3134 A. (*B.*) *utopica utopica* NINOMIYA, 1987-b

(= *B. utopica* KURODA MS auct.)

Maboroshi-ryūgū-botaru

- Type locality: off Cape Sata, Kagoshima prefecture, Kyūshū; 150 m.
- Distribution: western Kyūshū (off Gotō islands; off Amakusa; off Koshiki islands), off Cape Sata, off Tanegashima.
- Habitat: 50-200 m., coarse sand and stones.

G3135 A. (*B.*) *utopica parentalis* (SHIKAMA & ŌISHI in SHIKAMA, 1977)

Shiraga-botaru

- Type locality: Kamikatetsu, Kikaishima, Amami islands (Pleistocene fossil).
- Distribution: taken live off Tanegashima, 95-98m (MAJIMA, TSUCHIDA & ŌSHIMA, 1993).
- Original genus: *Baryspira* (as ssp. of *B. utopica* Is. TAKI, 1938-e, nom. nud.)

G3136 A. (*B.*) *lactea* (KURODA, 1960)

Chichi-iro-ryūgū-botaru

- Type locality: Miyako island, Okinawa prefecture.
- Distribution: southern Okinawa prefecture (Miyako islands, Yaeyama islands).
- Habitat: intertidal to 20 m., fine sand.
- Original genus: *Baryspira*.

G3137 A. (*B.*) *sinensis* (SOWERBY II, 1859 in 1842-87)

(= *Ancillaria inornata* E. A. SMITH, 1879)

Rō-iro-ryūgū-botaru (= Hime-ryūgū-botaru)

- Type locality: 'China'
- Distribution: western Kyūshū and southwards, EC5,



ECP4-ECP2, P2; South China Sea.

- Habitat: intertidal to 50 m., fine sand.
- Original genus: *Ancillaria*.

Subfamily **OLIVELLINAE TROSCHER, 1869**

□ Genus *Olivella* SWAINSON, 1831

Type species: *Olivella purpurata* SWAINSON, 1831 (s. d. DALL, 1909; = *Voluta dama* WOOD in MAWE, 1828) (= *Olivina* D'ORBIGNY, 1839; *Micana* GRAY, 1858)

G3138 *O. fortunei fortunei* (MARRAT, 1871 in 1870-71)

Ayame-botaru

- Type locality: 'China'.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Oliva*.

G3139 *O. fortunei japonica* STEARNS in PILSBRY, 1895-a

(= *O. fortunei sensu* UCHIYAMA, 1901; YOKOYAMA, 1922; *O. sprete sensu* KIRA, 1959-a)

Hotaru-gai (= Kuri-iro-botaru)

- Type locality: none designated.
- Distribution: Miyagi prefecture (Kesen-numa) and southwards, P8-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5; Korea.
- Habitat: subtidal to 30 m., sand.

G3140 *O. sprete* GOULD, 1861 in 1859-61

(= *O. fortunei* ADAMS *sensu* IWAKAWA, 1919; *O. fortunei japonica sensu* KURODA & HABE, 1952-a) Sasanomi-gai

- Type locality: Hong Kong.
- Distribution: Bōsō peninsula and southwards, P7-P5, ECP4; Korea, China.
- Habitat: subtidal to 100 m., sand.

G3141 *O. signata* (LISCHKE, 1869)

Hana-ayame

- Type locality: 'Bucht von Jedo' (Tōkyō bay).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P8-P5, EC5; China.
- Habitat: 10-30 m., fine sand.
- Original genus: *Oliva*.

G3142 *O. pulicaria* (MARRAT, 1871 in 1870-71)

Ōshima-botaru

- Type locality: 'China'.
- Distribution: Amami Ōshima and southwards, ECP3-ECP2.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Oliva*.

G3143 *O. fulgurata* (ADAMS & REEVE, 1850 in 1848-50)

(= *Oliva consobrina* LISCHKE, 1871; *Oliva fabula* MARRAT, 1871; *Olivella lepta sensu* IWAKAWA, 1919) Mushi-botaru (= Saki-guro-botaru; Ō-mushi-botaru)

- Type locality: 'China Sea'.
- Distribution: northeastern Honshū (Yamada bay) and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2; South China Sea.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Oliva*.

G3144 *O. spretooides* YOKOYAMA, 1922

Watazoko-botaru

- Type locality: Shitō, Ichihara City, Chiba prefecture, central Honshū (fossil).
- Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay TSUCHIDA, 1991) and southwards, P9-P5, Izu islands (off Hachijō island OKUTANI, 1964-b), Japan Sea (Noto peninsula ITŌ, 1986, J2-J1), EC5, East China Sea.
- Habitat: 30-450 m., sand.

G3145 *O. aureobalteata* KURODA & HABE in KURODA *et al.*, 1971

Koganemaki-watazoko-botaru

- Type locality: Sagami bay, central Honshū.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, East China Sea, ECP4.
- Habitat: 30-200 m., sand.

Family **HARPIDAE BRONN, 1849**

Subfamily **HARPINAE BRONN, 1849**

(Refs.: Rehder, 1973)

□ Genus *Harpa* RÖDING, 1798

Type species: *Buccinum harpa* LINNAEUS, 1758 (by tautonymy)

(= *Cithara* KLEIN in JOUSSEAUME, 1881; *Harpalis* LINK, 1807; *Harparia* RAFINESQUE, 1815; *Lyra* GRIFFITH & PIDGEON, 1934)

(Refs.: Hughes & Emerson, 1987)

G3146 *H. harpa* (LINNAEUS, 1758)

(= *H. nobilis* RÖDING, 1798)

Beni-obi-shokkō-ra

- Type locality: 'ad Benghala' (Bengal, India).
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Australia, east Africa to Tonga.
- Habitat: 5-30 m., sand.
- Original genus: *Buccinum*.

G3147 *H. amouretta* RÖDING, 1798

(= *H. oblonga* SCHUMACHER, 1817; *H. minor* LAMARCK, 1822 in 1815-22; *H. minus sensu* WOOD, 1828 in 1818-28; *H. gracilis* BRODERIP & SOWERBY, 1829; *H. crassa* PHILIPPI & KRAUSS, 1848; *H. solidula* A. ADAMS, 1854; *H. virginalis* GRAY *sensu* SOWERBY

II, 1870)

Hime-shokkō-ra (= Hoso-shokkō-ra)

- Type locality: 'Amboina' (Ambon island, Indonesia).
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Australia, Red Sea, east Africa to Hawaii, Marquesas.
- Habitat: 5-30 m., sand.

G3148 *H. kajiyamai* REHDER, 1973

(= *H. cancellata* (RÖDING) *sensu* HABE & KOSUGE, 1966 *non* RÖDING, 1798)

Kajiyama-shokkō-ra (= Chijimi-shokkō-ra)

- Type locality: 'The southern Philippines'.
- Distribution: Okinawa islands (Chibushi) and southwards; southern Philippines.

G3149 *H. major* RÖDING, 1798

(= *H. ventricosa* LAMARCK, 1801; *H. grandiformis* PERRY, 1811; *H. vulgaris* SCHUMACHER, 1817; *Buccinum harpa sensu* WOOD, 1818 *non* LINNAEUS, 1758; *H. conoidalis* LAMARCK, 1822 in 1815-22; *H. ligata* MENKE, 1828; *H. nobilis* LAMARCK *var. sensu* KIENER, 1835; *H. striatula* A. ADAMS, 1854; *H. nablum* 'MARTENS' *sensu* SOWERBY, 1860; *H. davidis* RÖDING *sensu* HABE, 1961)

Shokkō-ra

- Type locality: 'East Indies', restricted to 'Ambon' (Ambon island, Indonesia REHDER, 1973).
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Australia, east Africa to Hawaii, Marquesas.
- Habitat: 5-30 m., sand.

**Notes:** *H. ventricosa* LAMARCK, 1816 *non* LAMARCK, 1801 is a synonym of *H. cabritii* FISCHER, 1860 from the Red Sea and western Indian Ocean (REHDER, 1992).

G3150 *H. articularis* LAMARCK, 1822 in 1815-22

(= *H. delicata* PERRY, 1811 *nomen oblitum*; *H. davidus* (RÖDING) *sensu* HABE, 1964; *H. davidia* RÖDING *sensu* HABE & KOSUGE, 1966)

Koto-shokkō-ra

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, Indonesia to Fiji.
- Habitat: 5-30 m., sand.

Subfamily MORUMINAE HUGHES & EMERSON, 1987

□ Genus *Morum* RÖDING, 1798

Type species: *Morum purpureum* RÖDING, 1798 (mt.; = *Strombus oniscus* LINNAEUS, 1767)

(= *Lambidium* LINK, 1807; *Oniscia* SOWERBY, 1824; *Thaliostoma* SOWERBY, 1824 *nom. nud.*; *Oniscidia* SWAINSON, 1840 *err. pro -scia*; *Plesionisca* FISCHER,

1884)

(Refs.: Hughes & Emerson, 1987)

Subgenus *Oniscidia* MÖRCH, 1852

Type species: *Oniscia cancellatum* SOWERBY I, 1824 (ICZN op. 1040 (1975))

(= *Pulchroniscia* GARRARD, 1961; *Cancellomorum* EMERSON & OLD, 1963; *Onimusiro* KIRA in KURODA *et al.*, 1971)

G3151 *M. (O.) cancellatum* (SOWERBY I, 1824)

Mino-oni-mushiro

- Type locality: 'Île de France' (Mauritius).
- Distribution: western Kyūshū and southwards; East China Sea, southern China, South China Sea, Philippines, Fiji (EMERSON, 1990).
- Habitat: 50-150 m., sand.
- Original genus: *Oniscia*.

G3152 *M. (O.) uchiyamai* KURODA & HABE in HABE, 1961-a

(= *O. cancellata* SOWERBY *sensu* IWAKAWA, 1919; *Morum cancellatum* (SOWERBY) *var. sensu* KURODA & HABE, 1952-a)

Oni-mushiro

- Type locality: off Kōchi prefecture, southern Shikoku; 200-300 m.
- Distribution: Kii peninsula and southwards, P5, EC5; East China Sea, Marianas (Saipan; Esmeralda Bank EMERSON, 1990), New Caledonia
- Habitat: 183-300 m., sand.

G3153 *M. (O.) grandis* (A. ADAMS, 1853 in H. & A. ADAMS, 1853-58)

Ara-oni-mushiro

- Type locality: 'China Seas'.
- Distribution: Izu peninsula and southwards, Tosa bay, western Kyūshū, East China Sea, ECP4-ECP2, P2; Philippines, Australia (Queensland).
- Habitat: 100-200 m., coarse sand and stones.
- Original genus: *Oniscidia*.

G3154 *M. (O.) teramachii* KURODA & HABE in HABE, 1961-a

Shokkō-oni-mushiro

- Type locality: off Cape Ashizuri, southwestern Shikoku; ± 200 m.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, Tosa bay, off western Kyūshū; off Taiwan, Philippines, Marianas.
- Habitat: 100-200 m., sand.

G3155 *M. (O.) macandrewi* (SOWERBY III, 1889-b)

Ko-eboshi

- Type locality: 'Japan'.
- Distribution: Bōsō peninsula and southwards, P7-P5,

Japan Sea (Noto peninsula, J2-J1), EC5, East China Sea; South China Sea.

- Habitat: 30-200 m., shell and sand bottom.
- Original genus: *Oniscia*.

G3156 *M. (O.) joelgreeni* EMERSON, 1981

(= *M. (O.) celinamarumai* KOSUGE, 1981-b)

Hade-oni-mushiro

- Type locality: Davao Gulf, Mindanao, Philippines; in nets, 200 m.
- Distribution: Okinawa (Cape Zanpa) and southwards; central Philippines (Camotes sea), Marianas (Pagan Id. EMERSON, 1990).

G3157 *M. (O.) watsoni* DANCE & EMERSON, 1967

(= *Oniscia cithara* WATSON, 1881 in 1879-83 non BROCCHI, 1814)

Watoson-oni-mushiro

- Type locality: 'Challenger' sta. 192, Ke islands west of Papua: 5° 49' 15" S., 132° 14' 15" E., 140 fms., mud.
- Distribution: off Ogasawara islands; Papua New Guinea.

Subgenus *Herculea* H. & A. ADAMS, 1858 in 1853-58

Type species: *Oniscia ponderosa* HANLEY, 1858 (mt.)

G3158 *M. (H.) ponderosum* (HANLEY, 1858-d)

(= *Oniscia exquisita sensu* IWAKAWA, 1919 non ADAMS & REEVE, 1850)

Yūbi-gai

- Type locality: none designated.
- Distribution: Ogasawara islands (FUKUDA, 1995), Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; Philippines, Australia, tropical Indo-Pacific to Tonga.
- Habitat: intertidal to 10 m., coral reefs.
- Original genus: *Oniscia*.

G3159 *M. (H.) exquisitum* (ADAMS & REEVE, 1850 in 1848-50)

Hareyaka-oni-mushiro (= Murasaki-oni-mushiro)

- Type locality: Sulu archipelago; 16-20 fms., sandy mud.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines.
- Habitat: 30-50 m., sandy mud.
- Original genus: *Oniscia*.

Family MARGINELLIDAE FLEMING, 1828

(Refs.: Habe, 1951-e; Covert & Covert, 1995)

□ Genus *Marginella* LAMARCK, 1799

Type species: *Voluta glabella* LINNAEUS, 1758

(= *Cucumis* DESHAYES, 1830; *Marginilla* SWAINSON, 1831 err.; *Porcellana* GRAY, 1847 non LAMARCK, 1801; *Marginellana* H. & A. ADAMS, 1853 err.; *Pseudomarginella* MALTZEN, 1889)

G3160 *M. grisea* (JOUSSEAUME, 1917)

(= *M. obtusa* SOWERBY II, 1870 non SOWERBY II,

1846 in 1842-87)

- Type locality: none designated.
- Distribution: Japan (KURODA & HABE, 1952-a).

G3161 *M. ringicula* SOWERBY III, 1901 in 1901-02

(= *M. ringicula* var. *sensu* KURODA & HABE, 1952-a)

- Type locality: 'Island of Cebu, Philippines'.
- Distribution: 'Pacific coast, 10°-25° N.' (KURODA & HABE, 1952-a); Philippines.

□ Genus *Volvarina* HINDS, 1844

Type species: *Marginella (Volvarina) nitida* HINDS, 1844

(s. d. REDFIELD, 1870; = *Voluta mitrella* RISSO, 1826)

(= *Hyalina auct. non* SCHUMACHER, 1817; *Volvaria* JOUSSEAUME, 1875 non LAMARCK, 1801; *Volvariella* FISCHER, 1883; *Volvarina* JOUSSEAUME, 1875 err.)

G3162 *V. philippinarum* (REDFIELD, 1848)

(= *Marginella avena* SOWERBY, 1846 non KIENER, 1834 (1841?) in 1834-50)

Kaiko-heritori-gai

- Type locality: 'Philippine Islands'.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines.
- Original genus: *Marginella*.

□ Genus *Cryptospira* HINDS, 1844 in 1844-45

Type species: *Marginella quinqueplicata* LAMARCK, 1822

G3163 *C. tricincta* (HINDS, 1844 in 1844-45)

Taiwan-torinoko (= Usu-kuchibiru-torinoko)

- Type locality: 'Straits of Macassar; in eleven fathoms, coarse sand' (Indonesia).
- Distribution: P2; Taiwan and southwards, Philippines, Singapore.
- Habitat: subtidal to 40 m., sand.
- Original genus: *Marginella* (in section II, '*Cryptospira*').

□ Genus *Closia* GRAY, 1857

Type species: *Marginella sarda* KIENER, 1834 (mt.)

G3164 *Closia bernardi* (LARGILLIERT, 1845)

Tasogare-torinoko-gai (= Nezumi-iro-tamago-gai)

- Type locality: none designated.
- Distribution: P2; Taiwan and southwards, Philippines, southeast Asia.
- Habitat: intertidal to 50 m., sand.

□ Genus *Hyalina* SCHUMACHER, 1817

Type species: *Bulla pallida* LINNAEUS, 1758 (mt.)

(= *Neovolvaria* FISCHER, 1883)

G3165 *H. hirasei* (BAVAY, 1917)

(= *Marginella (Volvaria)* sp. *sensu* Y. HIRASE, 1909)

Makura-ko-gome

- Type locality: Kikai island, Amami islands.
- Distribution: Amami islands and southwards, ECP3-

ECP2.

- Habitat: subtidal, sand.
- Original genus: *Marginella* (*Volvaria*).

G3166 *H. sandwicensis* (PEASE, 1860-c)

- Type locality: 'Sandwich islands' (Hawaii).
- Distribution: 'Pacific coast to 38° N., Japan Sea coast to 36° N.' (KURODA & HABE, 1952-a); Hawaii.
- Original genus: *Marginella*.

□ Genus *Serrata* JOUSSEAUME, 1875

Type species: *Marginella serrata* GASKOIN, 1849 (by tautonymy)

(= *Hydroginella* LASERON, 1957; *Exiginella* LASERON, 1957)

G3167 *S. sagamiensis* (KURODA & HABE in KURODA *et al.*, 1971)

Kohaku-ko-gome

- Type locality: Sagami bay, central Honshū.
- Distribution: Sagami bay, Suruga bay, southwestern Shikoku (Okino-se bank, off Okinoshima TSUCHIDA, 1989).
- Habitat: 50-100 m., sand.
- Original genus: *Hyalina* (*Hydroginella*).

□ Genus *Dentimargo* COSSMANN, 1899

Type species: *Marginella dentifera* LAMARCK, 1803 (o. d.)

(= *Volvarinella* HABE, 1951-e; *Eburnospira* OLSSON & HARBISON, 1953; *Longinella* LASERON, 1957 non GROS & LESTAGE, 1927)

G3168 *D. makiyamai* (HABE, 1951-e)

Futa-suji-ko-gome

- Type locality: Shirahama, Wakayama prefecture (Kii peninsula, central Honshū).
- Distribution: Sagami bay and southwards, Kii peninsula, western Kyūshū, Amami Ōshima.
- Habitat: 50-100 m., sand.
- Original genus: *Volvarinella*

G3169 *D. kawamurai* (HABE, 1951-e)

Midori-ko-gome

- Type locality: Kakeroma island, Amami islands.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2.
- Habitat: subtidal, sand.
- Original genus: *Volvarinella*

G3170 *D. neglecta* (SOWERBY II, 1846 in 1842-87)

Iri-ko-gome (= Yaki-ko-gome)

- Type locality: none designated (Cuming collection).
- Distribution: Amami islands and southwards, Okinawa islands.
- Habitat: subtidal, sand.

- Original genus: *Marginella*.

G3171 *D. teramachii* (HABE, 1951-e)

Teramachi-ko-gome

- Type locality: Okinawa.
- Distribution: Amami islands and southwards, Okinawa islands.
- Habitat: subtidal, sand.
- Original genus: *Volvarinella*

G3172 *D. insecta* (LASERON, 1957)

Zō-mushi-kogome

- Type locality: Murray island, Queensland, Australia.
- Distribution: Ogasawara islands (Chichijima FUKUDA, 1994); Australia.
- Original genus: *Volvarinella*.

Family CYSTISCIDAE STIMPSON, 1865-a

(Refs.: Coover & Coover, 1995)

Subfamily PERSICULINAE COOVERT & COOVERT, 1995

□ Genus *Gibberula* SWAINSON, 1840

Type species: *Gibberula zonata* SWAINSON, 1840 (mt.; = *Volvaria oryza* LAMARCK, 1822)

(= *Giberula sensu* SOWERBY, 1842 err.; *Granula* JOUSSEAUME, 1875; *Kogomea* HABE, 1951; *Epiginella* LASERON, 1957; *Phyloginella* LASERON, 1957; *Diluculum* BARNARD, 1962)

G3173 *G. japonica* (NOMURA & HATAI, 1940)

(= *Cysticus sandwicensis* KURODA, 1928 non PEASE, 1860; *Kogomea aponica (sic) sensu* HABE, 1951-e)

Ko-gome-gai

- Type locality: Kyuroku island, Japan Sea (off Aomori prefecture, northern Honshū).
- Distribution: northeastern Honshū and southwards, P9-P5, Japan Sea (Kyuroku island, J4-J1), EC5.
- Habitat: 5-50 m., sand.
- Original genus: *Hyalina*.

G3174 *G. falsijaponica* (HABE, 1961-a)

Nise-ko-gome-gai

- Type locality: Shirahama, Wakayama prefecture (Kii peninsula, central Honshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Kogomea*.

G3175 *G. ovata* (HABE, 1951-e)

Tamago-nari-ko-gome-gai

- Type locality: Kakeroma island (Amami islands).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2.
- Habitat: intertidal to 50 m., sand.
- Original genus: *Kogomea*.

G3176 *G. novemprovincialis* (YOKOYAMA, 1928)

Ryūgū-ko-gome (= Kusabi-ko-gome)

- Type locality: Kounji, Takanabe village, Miyazaki prefecture, Kyūshū (fossil).
- Distribution: northeastern Honshū (Miyagi prefecture) and southwards, P8-P5, EC5, East China Sea.
- Habitat: 20-300 m., fine sand.
- Original genus: *Erata*.

Subfamily CYSTICINAE STIMPSON, 1865-a

□ Genus *Crithe* GOULD, 1860 in 1859-61

Type species: *Crithe atomaria* GOULD, 1860 (mt.)  
(= *Microvulina* HABE, 1951-e)

G3177 *C. nipponica* (HABE, 1951-e)

Tsuyu-dama-gai

- Type locality: Okinoshima, southwestern Shikoku.
- Distribution: Sagami bay and southwards, P6-P5, Japan Sea (Sado island, J3-J1), EC5.
- Habitat: intertidal to 50 m., coarse sand and stones.
- Original genus: *Microvulina*.

G3178 *C. nanaoensis* (HABE, 1951-e)

Chibi-tsuyu-dama

- Type locality: entrance to Nanao bay, eastern Noto peninsula (Japan Sea).
- Distribution: Tateyama bay (Bōsō peninsula TAMURA & OKUTANI, 1989) and southwards, P6-P5, Japan Sea (Sado island, J3-J1), EC5.
- Habitat: intertidal to 50 m., coarse sand and stones.
- Original genus: *Microvulina*.

Subfamily GRANULININAE COOVERT & COOVERT, 1995

□ Genus *Granulina* JOUSSEAUME, 1888

Type species: *Voluta clandestina* BROCCCHI, 1814 (mt.)  
(= *Gibberulina* auct. non MONTEROSATO, 1884;  
*Cypraeolina* CERULLI-TRELLI, 1911; *Merovia* DALL,  
1921; *Microginella* LASERON, 1957)

G3179 *G. tantilla* (GOULD, 1860 in 1859-61)

(= *Marginella cotamago* YOKOYAMA, 1922; *M. perovulum* YOKOYAMA, 1922; *C. horikosii* HABE, 1951-e)

Takara-ko-gome (= Ko-tamago-ko-gome; Kizami-takara-ko-gome)

- Type locality: 'China Seas'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Kyuroku island, J4-J1), EC5, ECP4, East China Sea; China.
- Habitat: intertidal to 100 m., sand.
- Original genus: *Persicula*.

G3180 *G. vitrea* (LASERON, 1957)

Keshi-tsubu-takara-kogome

- Type locality: Port Curtis, Queensland, Australia.

- Distribution: Ogasawara islands (Chichijima FUKUDA, 1994); Hawaii, Australia.
- Original genus: *Microginella*.

Family MITRIDAE SWAINSON, 1831

(Refs.: Cernohorsky, 1970)

Subfamily MITRINAE SWAINSON, 1831

(= IMBRICARIINAE TROSCHER, 1868)

(Refs.: Cernohorsky, 1976)

□ Genus *Mitra* LAMARCK, 1798

Type species: *Voluta mitra* LINNAEUS, 1758 (by tautonymy; ICZN op. 885)

(= *Mitraria* RAFINESQUE, 1815; *Tiarella* SWAINSON, 1840; *Thiarella* auct.; *Isara* H. & A. ADAMS, 1853; *Mutyca* H. & A. ADAMS, 1853; *Mitraxia* BINNEY & TRYON, 1864; *Phaeomitra* MARTENS, 1880; *Curcubita* SCUDER, 1882; *Eumitra* MELVILL & STANDEN, 1895; *Fuscomitra* PALLARY, 1900; *Papalaria* DALL, 1915; *Episcomitra* MONTEROSATO, 1917; *Atrimitra* DALL, 1918; *Vicimitra* IREDALE, 1929; *Cryptomitra* BRYAN, 1956; *Volvariella* COAN, 1966 non FISCHER, 1883)

Subgenus *Mitra* s. str.

G3181 *M. (M.) mitra* (LINNAEUS, 1758)

(= *Voluta episcopalis* LINNAEUS, 1758; *M. carmelita* RÖDING, 1798)

Chōsen-fude (= Hime-chōsen-fude)

- Type locality: none originally given; designated 'Ceram island, Moluccas, Indonesia' (CERNOHORSKY, 1976).
- Distribution: Kii peninsula (Kushimoto) and southwards, P5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Hawaii to Galapagos islands.
- Habitat: intertidal to 60 m., sand among coral.
- Original genus: *Voluta*.

G3182 *M. (M.) cardinalis* (GMELIN, 1791)

(= *Voluta pertusa* BORN, 1780 non LINNAEUS, 1758; *M. monachialis* RÖDING, 1798; *M. archiepiscopalis* LAMARCK, 1811; *M. lamarckii* DESHAYES, 1838; *M. vermiculata* DALL, 1905; '*M. cardinalis* MEUSCHEN, 1781' sensu KURODA, 1928)

Maru-fude-gai

- Type locality: 'in Oceano indico' (Indian Ocean).
- Distribution: Ogasawara islands (FUKUDA, 1995), Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific, Hawaii to Galapagos islands.
- Habitat: intertidal to 20 m., sand among coral.
- Original genus: *Voluta*.

G3183 *M. (M.) deynzeri* CERNOHORSKY, 1980

Takekawa-fude (= Dan-fude-gai)

- Type locality: Seragaki, Okinawa, 37-43 m., rubble.
- Distribution: Okinawa to Réunion to Papua New Guinea.

G3184 *M. (M.) papalis* (LINNAEUS, 1758)

Oni-kiba-fude (= Oni-no-kiba-fude)

- Type locality: none originally given; designated 'Ceram island, Moluccas Indonesia' (CERNOHORSKY, 1976).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Australia.
- Habitat: intertidal to 30 m., clean sand among coral rubble.
- Original genus: *Voluta*.

G3185 *M. (M.) stictica* (LINK, 1807 in 1806-08)

(= *M. cardinalis* RÖDING, 1798 non GMELIN, 1791; *M. abbatis* PERRY, 1811; *M. pontificalis* LAMARCK, 1811; *M. coronata* SCHUMACHER, 1817 non LAMARCK, 1811; *Voluta thiara* DILLWYN, 1817; *M. pontificalis* var. *confluens* DAUTZENBERG, 1935; *M. (Tiarella) cardinalis sensu* HABE & KOSUGE, 1967)

Nishiki-no-kiba-fude

- Type locality: none originally given; designated 'Batavia, Java, Indonesia' (Jakarta, Indonesia CERNOHORSKY, 1976).
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Indo-Pacific, east Africa, Hawaii to Marquesas.
- Habitat: intertidal to 20 m., sand among coral.
- Original genus: *Voluta*.

G3186 *M. (M.) ambigua* SWAINSON, 1829

(= *M. limosa* MARTYN, 1784 invalid: ICZN op. 456)

Ō-obi-fude

- Type locality: none originally given; designated 'Ticao island, Philippines' after Reeve (CERNOHORSKY, 1976).
- Distribution: Kii peninsula (off Sumisaki), Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific, east Africa to Polynesia.
- Habitat: intertidal to 20 m., on coral reefs under rocks and coral.

G3187 *M. (M.) coffea* SCHUBERT & WAGNER, 1829

(= *M. fulva* SWAINSON, 1829; *M. ambigua sensu* KIENER, 1838; *M. attenuata* REEVE, 1844; *M. barclayi* ROBILLARD, 1868; *M. (Chrysame) ambigua fulva sensu* IWAKAWA, 1919; *M. thaanumiana* PILSBRY, 1921; *M. (Nebularia) limosa* var. *brevis* DAUTZENBERG, 1935 non BELLARDI, 1887)

Kuri-iro-fude

- Type locality: none originally given; designated 'Mauritius' after Swainson (CERNOHORSKY, 1976).
- Distribution: Kii peninsula (Cape Shio), Amami islands and southwards, ECP3-ECP2, P2; Philippines, Hawaii, Polynesia, Australia, east Africa.
- Habitat: intertidal to 30 m., on coral reefs under rocks and in crevices.

G3188 *M. (M.) imperialis* RÖDING, 1798

(= *Voluta digitalis* LINK, 1807; *M. millepora* LAMARCK, 1811; *V. cribrum* DILLWYN, 1817; *M. (Chrysame) pertusa sensu* KURODA, 1928; *M. (Nebularia) koolhoveni* OOSTINGH, 1939)

Beni-une-fude

- Type locality: none originally given; designated 'Indonesia' (CERNOHORSKY, 1976).
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Red Sea to east Africa, western Polynesia.
- Habitat: intertidal to 100 m., on coral reefs under rocks and coral rubble.

G3189 *M. (M.) incompta* (LIGHTFOOT, 1786)

(= *M. tessellata* MARTYN, 1784 (invalid: ICZN op. 456); *Voluta vulpecula* var. *b* GMELIN, 1791; *M. terebralis* LAMARCK, 1811; *M. reevei* PHILIPPI, 1850; '*M. variegata* (GMELIN)' sensu HABE & KOSUGE, 1966)

Okina-fude

- Type locality: 'South Seas', restricted to 'Tutuila island, Samoa' (CERNOHORSKY, 1976).
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, east Africa to Polynesia, Hawaii.
- Habitat: intertidal to 40 m., reefs and coral rubble.
- Original genus: *Voluta*.

G3190 *M. (M.) eremitarum* RÖDING, 1798

(= *M. adusta* LAMARCK, 1811; *M. flavofusca* LAMARCK, 1811; *Voluta ruffina* DILLWYN, 1817; *M. terebralis* SWAINSON, 1840 non LAMARCK, 1811; *M. adusta* var. *brevior* DAUTZENBERG, 1935)

Koge-fude

- Type locality: none originally given; designated 'Pombo island, Haruku Strait, east of Ambon, Indonesia' (CERNOHORSKY, 1976).
- Distribution: Amami islands and southwards, ECP2, P2; Philippines, Australia, Indian Ocean, Cocos-Keeling islands, Melanesia.
- Habitat: intertidal to 20 m., on coral reefs; under stones and coral.

G3191 *M. (M.) inquinata* REEVE, 1844 in 1843-65

(= *M. hanleyana* DUNKER, 1877; *M. wrighti* CROSSE, 1878)

Fude-gai (= Kaya-gai)

- Type locality: none originally given; designated 'Japan' after Dunker (CERNOHORSKY, 1976).
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2; Philippines, East China Sea, southern China.
- Habitat: 20-110 m., sand.

G3192 *M. (M.) chinensis* GRIFFITH & PIDGEON, 1834

(= *M. sacerdotalis* A. ADAMS, 1853; *M. (Cancilla) chinensis* GRAY *sensu* KIRA, 1959; *Volutomitra pele* CERNOHORSKY *sensu* KURODA & HABE, 1971)  
Chūka-fude

- Type locality: none originally given; designated 'Amoy, China' (Xiamen, China CERNOHORSKY, 1976).
- Distribution: Sagami bay and southwards, P6-P5, EC5, East China Sea; Korea, China, South Africa.
- Habitat: 20-100 m., sand.

G3193 *M. (M.) hilli* CERNOHORSKY, 1976  
(= *M. (Tiara) melaniana* LAMARCK *sensu* SHIKAMA & HORIKOSHI, 1963 *non* LAMARCK, 1835)

- Kuro-chūka-fude (= Kaisho-fude; Yanagi-shibori-fude)
- Type locality: 26-29 km north of Cape Moreton, Queensland, Australia.
  - Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, China, Australia.
  - Habitat: 20-100 m., sand.

G3194 *M. (M.) triplicata* MARTENS, 1904  
(= *M. verweyi* KNUDSEN, 1970)

- Togari-fude (= Fukami-fude)
- Type locality: north of Brawa, Somalia, east Africa.
  - Distribution: P2; off southwestern Taiwan (LAN, 1980), Philippines, Indonesia, east Africa.
  - Habitat: 500-1500 m., mud.

G3195 *M. (M.) nivea* (BRODERIP, 1836-b)  
(= *M. norrisii* REEVE, 1844; *M. nevia (sic)* SWAINSON *sensu* GARRETT, 1880)

- Habutae-fude-gai
- Type locality: 'ad insulam Annaan' (Anaa island, Tuamoto Archipelago).
  - Distribution: Sagami bay and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines to Solomon islands and Polynesia.
  - Habitat: 20-100 m., sand.
  - Original genus: *Tiara*.

G3196 *M. (M.) pele* CERNOHORSKY, 1970  
(= *M. nigra* (CHEMNITZ) *sensu* SCHRÖTER, DAUTZENBERG & BOUGE, 1933; *M. nigra* SCHRÖTER *sensu* J. CATE, 1960)

- Nurihada-fude
- Type locality: 1 mile northwest of Pitcairn island, Polynesia.
  - Distribution: Kii peninsula (Nada; Tsui; Sakai; Kushimoto; Cape Shio KOYAMA, 1994-b); Hawaii, Polynesia.
  - Habitat: 30-250 m., on rocks and coral rubble.

G3197 *M. (M.) subflava* (KURODA & HABE in KURODA *et al.*, 1971)  
Kibami-fude

- Type locality: Sagami bay, central Honshū.
- Distribution: Sagami bay and southwards, Kii peninsula (off Urakami, 120 fms. KOYAMA, 1994-b); Philippines (Bohol).
- Habitat: 50-150 m., sand.
- Original genus: *Vicimitra*.

G3198 *M. (M.) ustulata* REEVE, 1844 in 1843-65  
(= *M. ignobilis* REEVE, 1844; *M. mosaica* ISSEL, 1869; *M. petrosa* SOWERBY II, 1874; *M. kamehameha* PILSBRY, 1921; *M. contracta* SWAINSON *sensu* CERNOHORSKY, 1965; *Nebularia abbatis* (DILLWYN) *sensu* MASAHITO, 1969)

- Korii-fude-gai
- Type locality: none originally given; designated 'Kio island, Fiji' (CERNOHORSKY, 1976).
  - Distribution: Amami islands and southwards, ECP3-ECP2; Philippines, Fiji, Hawaii, Red Sea, southwestern Pacific.
  - Habitat: intertidal to 30 m., on coral sand and shell fragments.

Subgenus *Nebularia* SWAINSON, 1840

Type species: *Mitra contracta* SWAINSON, 1820 (s. d. HERRMANNSEN, 1847)  
(= *Chrysame* H. & A. ADAMS, 1853)

G3199 *M. (N.) contracta* SWAINSON, 1820  
(= *M. ferruginea* var. B LAMARCK, 1811; *Voluta abbatis* DILLWYN, 1817 *non* PERRY, 1811; *M. nebulosa* BRODERIP, 1836; *M. infecta* REEVE, 1844; '*M. sp. close to abbatis* DILLWYN' *sensu* WEAVER, 1964)  
Kitsune-fude (= Inu-fude)

- Type locality: none originally given; designated 'Anaa island, Tuamoto Archipelago' (CERNOHORSKY, 1976).
- Distribution: Ogasawara islands (FUKUDA, 1995), Amami islands and southwards, ECP3-ECP2, P2; Philippines, east Africa to Polynesia, Hawaii.
- Habitat: intertidal to 30 m., coral reefs.

G3200 *M. (N.) coarctata* REEVE, 1844 in 1843-65  
Ko-gitsune-fude

- Type locality: 'Anaa island' (Tuamoto Archipelago).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Hawaii to Polynesia, Micronesia.
- Habitat: intertidal to 30 m., coral reefs.

G3201 *M. (N.) chrysostoma* BRODERIP, 1836-b  
(= *M. kieneri* PHILIPPI, 1850; *M. arnaloti* BARTSCH, 1918)

- Kogane-yatate (= Kogane-fude)
- Type locality: 'ad insulam Annaan' (Anaa island, Tuamoto Archipelago). ('Island of Ticao and Isle of Anaa, South Seas. On the reefs at low water' on original BMNH label).

- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, east Africa to Polynesia.
- Habitat: intertidal to 20 m., on rocks or under coral.

**G3202 *M. (N.) ferruginea* LAMARCK, 1811**

(= *Strombus fasciatus niveis* CHEMNITZ, 1780 non-binominal; *Voluta vitulina* DILLWYN, 1817; *M. martiniana* MENKE, 1829; *Chrysame lemma* IREDALE, 1929)

Bekkō-fude

- Type locality: none originally given; designated 'Keledjitan, Bantam, Java, Indonesia' (CERNOHORSKY, 1976).
- Distribution: Ogasawara islands, Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Australia, Gulf of Aden to Polynesia.
- Habitat: intertidal to 30 m., on rocks or under coral.

**G3203 *M. (N.) rubritincta* REEVE, 1844 in 1843-65**

(= *M. lienardi* SOWERBY, 1874; *M. lienardi* var. *emaciata* DAUTZENBERG & BOUGE, 1923)  
Maru-bekkō-fude (= Aka-fude; Tsuzure-fude)

- Type locality: Ticao island, Philippines
- Distribution: Kii peninsula (off Sakai; off Shirahama), Amami islands and southwards, ECP3-ECP2, P2; Philippines, Mauritius to Polynesia, Hawaii.
- Habitat: intertidal to 20 m., on rocks or under coral.

**G3204 *M. (N.) cucumerina* LAMARCK, 1811**

(= *Voluta turricula* HOLTEN, 1802 non GMELIN, 1791; *V. ferrugata* DILLWYN, 1817; *Mitreola globosa* MÖRCH, 1852; *Mitra tabanula* LAMARCK sensu SOWERBY, 1874; *M. cucumerina* var. *pallida* DAUTZENBERG & BOUGE, 1923; *M. tabanula* var. *connectens* DAUTZENBERG & BOUGE, 1923)

Kanoko-fude

- Type locality: none originally given; designated 'Ambon island, Indonesia' (CERNOHORSKY, 1976).
- Distribution: Amami islands and southwards, ECP3, ECP2, P2; Philippines, Australia, Red Sea to Polynesia.
- Habitat: intertidal to 100 m., rocks and coral.

**G3205 *M. (N.) chrysalis* REEVE, 1844 in 1843-65**

(= *M. leucozona* KIENER, 1839 non ANDRZEJOWSKI, 1830; *M. (Chrysame) buri* MELVILL & SYKES, 1899)  
Mayu-fude

- Type locality: none originally given; designated 'Pombo island, Haruku straits, east of Ambon, Indonesia' (CERNOHORSKY, 1976).
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Red Sea to Cook islands, Polynesia.
- Habitat: intertidal to 16 m., on rocks and under coral.

**G3206 *M. (N.) fraga* QUOY & GAIMARD, 1833**

(= *M. miniata* ANTON, 1838; *M. peregra* REEVE, 1844;

*M. tornata* REEVE, 1845; *M. cingulata* A. ADAMS, 1853; *M. rubiginea* A. ADAMS, 1855; *M. (N.) williamsi* NEWCOMB, 1870; *M. carnilirata* SOUVERBIE, 1871; *M. (Chrysame) turgida sensu* KURODA, 1928; *M. (C.) idjowensis* OOSTINGH, 1939; *M. (C.) subidjowensis* OOSTINGH, 1939)

Ko-beni-fude (= Shiraboshi-mayu-fude)

- Type locality: none originally given; designated 'Masbate Island, Philippine Islands' (CERNOHORSKY, 1976).
- Distribution: Kii peninsula (Cape Shio), Amami islands and southwards, ECP3, ECP2, P2; Philippines, Gulf of Oman to China and Fiji.
- Habitat: intertidal on and under rocks and coral.

**G3207 *M. (N.) tabanula* LAMARCK, 1811**

(= *M. pediculus* LAMARCK, 1811; *M. sulcata* MENKE, 1829; *M. spadicea* SOWERBY II, 1874; *M. minor* SOWERBY II, 1874; *M. trunculus* SOWERBY, 1874; *M. palawanensis* BARTSCH, 1918)

Shiro-obi-ko-beni-fude (= Hime-mayu-fude)

- Type locality: 'l'Océan des Grande Indes', restricted to 'Marudu bay, northern Borneo, Indonesia' (CERNOHORSKY, 1976).
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, Australia, Gulf of Aden to Tonga.
- Habitat: intertidal to 20 m., under rocks and coral.

**G3208 *M. (N.) turgida* REEVE, 1845 in 1843-65**

(= *M. ericea* PEASE, 1860; *M. nucleolus* LAMARCK sensu CERNOHORSKY, 1965)

Yama-mayu-fude

- Type locality: Capul island, Philippines.
- Distribution: Ogasawara islands (FUKUDA, 1994), Kii peninsula (Cape Shio KOYAMA, 1994-b), Okinawa islands and southwards, ECP2, P2; Philippines, Australia, Hawaii to Gulf of Aden.
- Habitat: intertidal, on rocks and under coral.

**G3209 *M. (N.) doliolum* KÜSTER, 1839**

(= *M. rotundilirata* REEVE, 1844; *M. tabanula* (*pars*)(LAMARCK) sensu TRYON, 1882)  
Tōmaki-fude

- Type locality: 'East Indies', restricted to 'Taganak island, Borneo, Indonesia' (CERNOHORSKY, 1976).
- Distribution: Kii peninsula (Minabe; Cape Shio KOYAMA, 1994-b) and southwards, P5, ECP4-ECP2, P2; Philippines, Australia, Red Sea to Tonga.
- Habitat: intertidal to 16 m., rocks and coral reefs.

**G3210 *M. (N.) avenacea* REEVE, 1845 in 1843-65**

(= *M. hanleyi* SOWERBY, 1874 non DOHRN, 1861; *M. indentata* SOWERBY, 1874)

Hanrei-fude

- Type locality: 'Islands of Burias, Ticao and Capul,



Philippines (found on the reefs, and in sandy mud at the depth of about six fathoms); restricted to 'Burias Island, Philippine Islands' (CERNOHORSKY, 1976).

- Distribution: Ogasawara islands (FUKUDA, 1994) Kii peninsula (Nada; off Inami; Minabe; Kushimoto; Cape Shio KOYAMA, 1994-b) and southwards, P5, ECP4-ECP2, P2; Philippines, Australia, Madagascar to Sri Lanka to Samoa.
- Habitat: subtidal to 60 m., under coral near sand.

G3211 *M. (N.) atjehensis* OOSTINGH, 1939  
(= *M. solanderi* REEVE *sensu* CERNOHORSKY, 1965)  
Ōsuchin-fude

- Type locality: north Atjeh, Goentji, Sawang, Sumatra, Indonesia (fossil).
- Distribution: Kii peninsula (Cape Shio KOYAMA, 1994-b); Taiwan, Thailand to Melanesia.
- Habitat: 10-150 m., coral rubble, sand and mud.

G3212 *M. (N.) suturata* REEVE, 1845 in 1843-65  
(= *M. pellis-serpentis* REEVE *sensu* TRYON, 1882 (*pars*);  
*M. sibogae* SCHEPMAN, 1913 in 1908-13)  
Ara-tae-fude

- Type locality: 'Gindulman, Island of Bohol, Philippines (found under stones at low water)'.  
• Distribution: Sagami bay and southwards, Kii peninsula (Shimo-kusui; Inami; Minabe; Cape Shio KOYAMA, 1994-b), P6-P5, ECP4-ECP2, P2; Philippines, China, Indonesia.
- Habitat: 40-311 m., coral reefs and sandy mud.

G3213 *M. (N.) aurantia aurantia* (GMELIN, 1791)  
(= *Turricula arausiaca fascia alba* CHEMNITZ, 1780 non-binominal; *M. minuta* RÖDING, 1798; *M. aurantiaca* LAMARCK, 1811; *M. peronii* LAMARCK, 1811; *M. peronii* var. *limacina* LAMARCK, 1811; *M. crassa* SWAINSON, 1822; *M. michelini* GUÉRIN, 1831; *M. limbifera* (LAMARCK) *sensu* REEVE, 1844; *M. nanus* REEVE, 1844; *M. caeligena* REEVE, 1845; *M. consolidata* SOWERBY, 1874; *M. carifa* BARTSCH, 1915; *M. vermiculosa* MARTYN *sensu* OOSTINGH, 1939; *Chrysame crassa* SWAINSON *sensu* IREDALE & MCMICHAEL, 1962; *Strigatella crassa sensu* CERNOHORSKY, 1965; *M. ticaonica* (REEVE) *sensu* HABE & KOSUGE, 1966)  
Obi-fude (= Cha-iro-fude)

- Type locality: none originally given; designated 'Burias Island, Philippine Islands' (CERNOHORSKY, 1976).
- Distribution: Kii peninsula (KOYAMA, 1994-b) and southwards, P5, ECP4-ECP2, P2; Philippines, Gulf of Aden to Natal and Polynesia.
- Habitat: intertidal to 4 m., rocks and coral reefs.

G3214 *M. (N.) aurantia crassicostata* SOWERBY II,

1874

(= *M. (Chrysame) vexillum sensu* TRYON, 1882 (*pars*);  
*Chrysame crassocostatus (sic)* (SOWERBY) *sensu* HABE & KOSUGE, 1966)

Tōmaki-ki-iro-fude

- Type locality: Boac island, Marinduque, Philippines.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines to Marshall islands.
- Habitat: intertidal to 20 m., rocks and coral reefs.

G3215 *M. (N.) ticaonica* REEVE, 1844 in 1843-65  
(= *M. subrostrata* SOWERBY, 1874; *M. crassa (pars)* SWAINSON *sensu* TRYON, 1882; *M. (Strigatella) ticaonica vagans* PILSBRY, 1921; *M. pupiformis* DALL, MS *sensu* J. CATE, 1963 *nom. nud.*; *Strigatella oleacea* (REEVE) *sensu* HABE & KOSUGE, 1966; *M. crassa* SWAINSON *sensu* KOSUGE, 1969)

Donguri-fude

- Type locality: 'Island of Ticao, Philippines (found on the reefs, low water)'.
- Distribution: Kii peninsula (KOYAMA, 1994-b) and southwards, P5, ECP4-ECP2, P2; Philippines to Marshall islands.
- Habitat: intertidal to 25 m., rocks and under coral.

G3216 *M. (N.) vexillum* REEVE, 1844 in 1843-65  
Tsuto-fude

- Type locality: 'Philippine Islands' ('Isle of Capul, on the reefs, low water' on original BMNH label).
- Distribution: Kii peninsula (Tanabe bay KOYAMA, 1994-b), Amami islands and southwards, ECP3, ECP2, P2; Philippines, Solomon islands.
- Habitat: intertidal to 20 m., rocks and under coral.

G3217 *M. (N.) fulvescens* BRODERIP, 1836-b  
(= *M. telum* SOWERBY, 1874; *M. ostergaardi* PILSBRY, 1921; *Strigatella golishi* DALL, MS *sensu* DIETRICH & MORRIS, 1953 *nom. nud.*; *M. ancillides* BRODERIP *sensu* J. CATE, 1963 *nom. nud.*; *M. pararhodia* DALL, MS *sensu* CATE, 1963 *nom. nud.*)

Usucha-fude (= Hoso-usu-cha-fude)

- Type locality: 'ad insulam Annaan' (Anaa island, Tuamotu Archipelago).
- Distribution: Kii peninsula (KOYAMA, 1994-b) and southwards, P5, ECP4-ECP2, P2; Philippines, Mauritius to Hawaii.
- Habitat: 4-50 m., rocks and under coral.

G3218 *M. (N.) telescopium* REEVE, 1844 in 1843-65  
Somewake-yatate

- Type locality: 'Island of Ticao, Philippines'.
- Distribution: Kii peninsula (KOYAMA, 1994-b), Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, east Africa to Fiji.

- Habitat: intertidal, rocks and coral reefs.

G3219 *M. (N.) testacea* **BRODERIP, 1836-b**  
(= *M. obliqua* LESSON, 1842; *M. antoni* DOHRN, 1860)  
Hoso-suihitsu-fude

- Type locality: 'ad insulam Annaan' (Anaa island, Tuamoto Archipelago).
- Distribution: Tosa bay (KURODA & HABE, 1952-a); Polynesia.

G3220 *M. (N.) lugubris* **SWAINSON, 1821**  
(= *M. coronata* (LAMARCK) *sensu* J. CATE, 1962)  
Yuki-fude

- Type locality: none originally given; designated 'Manava island, North Viti Levu, Fiji Islands' (CERNOHORSKY, 1976).
- Distribution: Kii peninsula (KOYAMA, 1994-b), southern Kyūshū and southwards, ECP4-ECP2, P2; Philippines, Australia to Polynesia and Hawaii.
- Habitat: intertidal to 50 m., rocks and under coral.

G3221 *M. (N.) coronata* **LAMARCK, 1811**  
(= *M. tiarella* A. ADAMS, 1853; *M. lugubris honoluluensis* PILSBRY, 1921; *M. tiarella var. deleta* DAUTZENBERG & BOUGE, 1923; *M. crassula* DALL, MS *sensu* J. CATE, 1963 *nom. nud.*)

- Fuchi-nui-fude
- Type locality: none originally given; designated 'Bohol island, Philippines' (CERNOHORSKY, 1976).
  - Distribution: Kii peninsula (KOYAMA, 1994-b) and southwards, P5, ECP4-ECP2, P2; Philippines, east Africa to Polynesia, Hawaii.
  - Habitat: intertidal to 140 m., rocks and coral reefs.

G3222 *M. (N.) aurora floridula* **SOWERBY II, 1874 in 1842-87**  
(= *M. coronata (pars)* CHEMNITZ *sensu* SOWERBY II, 1874 in 1842-87; *M. (Chrysame) coronata (pars)* LAMARCK *sensu* TRYON, 1882; *M. (Chrysame) tiarella var. amplificata* DAUTZENBERG & BOUGE, 1923)  
Mushiro-fude

- Type locality: 'Mauritius'.
- Distribution: Kii peninsula (KOYAMA, 1994-b) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Australia, Red Sea to Tonga.
- Habitat: intertidal to 10 m., rocks and coral reefs.

G3223 *M. (N.) luctuosa* **A. ADAMS, 1853**  
(= *M. rutila* A. ADAMS, 1853; *M. nigricans* PEASE, 1865; *M. astyridiformis* MELVILL, 1888; *M. townsendi* MELVILL, 1904; *M. albocoronata* SCHEPMAN, 1913 in 1908-13; *M. diamantina* DALL, MS *sensu* J. CATE, 1963 *nom. nud.*; *M. alcida* DALL, MS *sensu* J. CATE, 1963 *nom. nud.*; *M. cf. M. nigricans sensu* CERNOHORSKY, 1965)

Hime-kuri-iro-yatate (= Usu-obi-fude; Hime-obi-fude)

- Type locality: 'China Seas'.
- Distribution: Kii peninsula (Cape Shio KOYAMA, 1994-b); Taiwan and southwards, Gulf of Oman to Polynesia, Hawaii.
- Habitat: intertidal to 60 m., rocks and coral reefs.

G3224 *M. (N.) punctulata* **LAMARCK, 1811**  
(= *M. diadema* SWAINSON, 1822)  
Kiba-fude

- Type locality: Indian Ocean.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, Madagascar to Fiji.
- Habitat: intertidal to 16 m., under rocks and stones, coral.

G3225 *M. (N.) hayashii* **KIRA, 1959-b**  
Daimonji-fude

- Type locality: off Cape Daiō (Daiō-zaki), Shima peninsula (central Honshū), 60 fms.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and westwards, P7-P5, western Japan Sea (northern Yamaguchi prefecture SUGIMURA & FUKUDA, 1995), EC5; Taiwan.
- Habitat: 100-150 m., coarse sand and stones.

G3226 *M. (N.) rosacea* **REEVE, 1845 in 1843-65**  
(= *M. reticulata* A. ADAMS, 1853; *M. (Cancilla) annulata (pars)* (REEVE) *sensu* TRYON, 1882; *M. hirasei* PILSBRY, 1904)

- Beni-fude
- Type locality: 'Island of Corregidor, Philippines (found among coral sand at the depth of ten fathoms)'.
  - Distribution: Ogasawara islands (FUKUDA, 1994), Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2; Philippines, Thailand to northwestern Australia.
  - Habitat: 60-160 m., sandy mud.

G3227 *M. (N.) rubiginosa* **REEVE, 1844 in 1843-65**  
(= *Voluta scabricula Linmaei* CHEMNITZ, 1795 non-binominal)

- Sabi-iro-fude (= Kurige-fude)
- Type locality: 'Island of Ticao, Philippines (found on the reefs at low water)'.
  - Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, Australia, Thailand to New Britain.
  - Habitat: intertidal to 20 m., under rocks and in crevices.

G3228 *M. (N.) tuberosum* **REEVE, 1845 in 1843-65**  
(= *M. patriarchalis* (LAMARCK) *sensu* TINKER, 1952)  
Nasubiba-otome

- Type locality: 'Island of Zebu' (Cebu), Philippines (found under stones at low water)'.
- Distribution: Kii peninsula (KOYAMA, 1995) and southwards, P5, ECP4-ECP2, P2; Philippines, Indo-western

Pacific, east Africa to Micronesia, Polynesia.

• Habitat: intertidal to 20 m., rubble.

**Notes:** previously often placed in *Vexillum*. See SALISBURY (1992).

Subgenus *Dibaphus* **PHILIPPI, 1847**

Type species: '*Conus edentulus* REEVE' (mt.; = *Mitra edentula* SWAINSON, 1823)

(= *Mitroidea* PEASE, 1865; *Mauritia* H. ADAMS, 1869; *Plochelaea* GABB, 1873)

G3229 *M. (D.) edentula* SWAINSON, 1823

(= *Dibaphus philippi* CROSSE, 1858)

Hanashi-fude

- Type locality: none originally given; designated 'Mauritius' (CERNOHORSKY, 1976).
- Distribution: Kii peninsula (KOYAMA, 1994-b) and southwards, P5, ECP4-ECP2, P2; Philippines, Australia, Agalega island (Mauritius) to Hawaii, Clipperton islands.
- Habitat: intertidal on reefs, under rocks and coral.

G3230 *M. (D.) multiplicata* (PEASE, 1865)

(= *Mauritia barclayi* H. ADAMS, 1869 non ROBILLARD, 1868; *Mitra dibaphiformis* SOWERBY, 1874; *Dibaphus loebbeckeanus* WEINKAUFF, 1887; *Mutica paucilineata* DALL *sensu* TINKER, 1952) Migaki-fude (= Tombo-fude)

- Type locality: 'Central Pacific', restricted to 'Samoa Islands' (CERNOHORSKY, 1976).
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, Mauritius to Tuamotu, Hawaii.
- Habitat: intertidal to subtidal, rocks and coral.
- Original genus: *Mitroidea*.

Subgenus *Strigatella* SWAINSON, 1840

Type species: *Mitra zebra* LAMARCK, 1811 (s. d. GRAY, 1847; = *Voluta paupercula* LINNAEUS, 1758)

G3231 *M. (S.) paupercula* (LINNAEUS, 1758)

(= *Turricula pauperum* CHEMNITZ, 1780 non-binominal; *M. venosa* RÖDING, 1798; *M. zebra* LAMARCK, 1811; *M. radiata* SCHUMACHER, 1817; *M. (Strigatella) virgata* REEVE *sensu* TRYON, 1882; *M. (Strigatella) paupercula* var. *obtusata* DAUTZENBERG & BOUGE, 1923; *S. virgata* *sensu* KURODA, 1928) Nagashima-yatate (= Koshima-yatate)

- Type locality: 'in *M. Mediterraneo*', erroneous; redesignated 'Tg Nama, Ambon bay, Ambon island, Indonesia' (CERNOHORSKY, 1976).
- Distribution: Kii peninsula (KOYAMA, 1994-b) and southwards, P5, ECP4-ECP2, P2; Philippines, Australia, Red Sea to Polynesia and Hawaii.
- Habitat: intertidal to 4 m., rocks and under coral.
- Original genus: *Voluta*.

G3232 *M. (S.) pica* (DILLWYN, 1817)

(= *M. paupercula* 'var. B' LAMARCK, 1822 in 1815-22; *M. (S.) lineata* SWAINSON, 1840; *M. tigrina* A. ADAMS, 1853; *M. jucunda* TAPPARONE-CANEFRI, 1874)

- Type locality: 'the coast of the Island of St. Bartholemew' (Caribbean), erroneous; redesignated 'San Fernando, Luzon, Philippine Islands' (CERNOHORSKY, 1976).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Mauritius to Papua New Guinea.
- Habitat: intertidal on reefs, under rocks.
- Original genus: *Voluta*.

G3233 *M. (S.) retusa* LAMARCK, 1811

(= *M. lineata* KÜSTER, 1841 non SWAINSON, 1840; *M. virgata* REEVE, 1844 non BOSC, 1802; *M. tornatelloides* REEVE, 1845; *S. paupercula* var. *retusa* LAMARCK *sensu* MARTENS, 1880; *M. (S.) retusa (pars)* LAMARCK *sensu* TRYON, 1882; *M. amanda* BARTSCH, 1918; *M. signa* BARTSCH, 1919)

Ōshima-yatate (= Chūshima-yatate)

- Type locality: 'Indian Ocean', restricted to 'Veekens Bay, South Pagi Island, Indonesia' (CERNOHORSKY, 1976).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, Seychelles to Tonga, Samoa.
- Habitat: intertidal on reefs, under rocks and coral.

G3234 *M. (S.) litterata* LAMARCK, 1811

(= *Colombella bizonalis* LAMARCK, 1822 in 1815-22; *C. hebraea* LAMARCK, 1822 in 1815-22; *M. leopardina* KÜSTER, 1839; *M. anatis* LESSON, 1842; *M. maculosa* REEVE, 1844; *M. (S.) litterata* vars. *minor*, *major*, *inversicolor*, *maculosa*, all DAUTZENBERG & BOUGE, 1923)

Midare-shima-yatate (= Shima-yatate)

- Type locality: 'Indian Ocean', restricted to 'Mauritius' (CERNOHORSKY, 1976).
- Distribution: Izu islands and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, Red Sea to Polynesia, Hawaii.
- Habitat: intertidal on reefs, under rocks and coral.

G3235 *M. (S.) auriculoides* REEVE, 1845 in 1843-65

(= *M. unifascialis* KIENER, 1838 non LAMARCK, 1811; *M. nivosa* KÜSTER, 1839 non SWAINSON, 1822; *M. turturina* SOUVERBIE, 1875)

Hime-yatate

- Type locality: none originally given; designated 'Mauritius' (CERNOHORSKY, 1976).
- Distribution: Ogasawara islands, Izu islands and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Mauritius to Polynesia.
- Habitat: intertidal on reefs, under rocks and coral.

G3236 *M. (S.) assimilis* PEASE, 1868

(= *M. auriculoides* auct. non REEVE, 1845; *M. auriculoides* (REEVE) sensu SOWERBY, 1874 (pars); *M. (Chrysame) coronata* (pars)(LAMARCK) sensu TRYON, 1882)

Kuchijiro-hime-yatate

- Type locality: 'Polynesia', restricted to 'Huahine Island, Society Islands' (CERNOHORSKY, 1976).
- Distribution: Kii peninsula (KOYAMA, 1994-b), Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; Philippines, Australia, east Africa to Polynesia, Hawaii.
- Habitat: intertidal on reefs, under rocks and coral.

**G3237 *M. (S.) scutulata* (GMELIN, 1791)**

(= *Voluta scutulata* CHEMNITZ, 1788 non-binominal; *M. discolor* RÖDING, 1798; *M. scutellata* BOSC, 1801; *M. amphorella* LAMARCK, 1811; *M. limbifera* LAMARCK, 1811; *M. sertum* DUVAL, 1852; *M. (S.) nebrias* MELVILL, 1895)

Yatate-gai (= Shiro-obi-yatate)

- Type locality: '*Oceano indico*' (Indian Ocean), restricted to 'Borneo, Indonesia' (CERNOHORSKY, 1976).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2, P2; Philippines, Australia, Gulf of Aden to Polynesia.
- Habitat: intertidal to 20 m., on reefs under rocks and coral.
- Original genus: *Voluta*.

**G3238 *M. (S.) decurtata* REEVE, 1844 in 1843-65**

(= *M. (S.) scutulata* (pars)(LAMARCK) sensu TRYON, 1882; *Mitra columbelliformis* KIENER sensu MAES, 1967(pars))

Futokoro-yatate

- Type locality: none originally given; designated 'Bataan, Luzon, Philippine Islands' (CERNOHORSKY, 1976).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, Cocos-Keeling islands to Polynesia.
- Habitat: intertidal on reefs, under rocks and coral.

**G3239 *M. (S.) columbelliformis* KIENER, 1838**

Naga-futokoro-yatate (= Tamoto-fude)

(= *M. striata* GRAY, 1839; *Strigatella stutschburyi* MÖRCH, 1852; *M. (S.) limbifera* (pars) LAMARCK sensu TRYON, 1882)

- Type locality: 'Madagascar'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Cocos-Keeling islands to Polynesia.
- Habitat: intertidal on reefs, under rocks and in coral rubble.

**G3240 *M. (S.) acuminata* SWAINSON, 1824**

(= *M. lutea* QUOY & GAIMARD, 1833)

Rō-iro-yatate (= Togari-yatate)

- Type locality: 'Mauritius'.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, east Africa to Polynesia, Hawaii.
- Habitat: intertidal on reefs, under rocks and coral rubble.

**G3241 *M. (S.) fastigium* REEVE, 1845 in 1843-65**

(= *M. discolor* KÜSTER, 1840 non RÖDING, 1798; *Strigatella fuscescens* PEASE, 1860; *M. brunnea* (PEASE) sensu CARPENTER, 1865; *M. (S.) brunnea* sensu TRYON, 1882; *S. oleacea* (REEVE) sensu CERNOHORSKY, 1965)

Kuri-iro-yatate (= Koge-yatate)

- Type locality: none originally given; designated 'Bohol islands (*sic*), Philippine Islands' (CERNOHORSKY, 1976).
- Distribution: Ogasawara islands, Hachijō islands and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, east Africa to Polynesia, Hawaii.
- Habitat: intertidal on reefs, under rocks and coral, in crevices.

**G3242 *M. (S.) pellisserpentis* REEVE, 1844 in 1843-65**

(= *M. impressa* ANTON, 1839 non KÜSTER, 1839; *M. granata* REEVE, 1845; *M. brumalis* REEVE, 1845; *M. serotina* A. ADAMS, 1853; *M. crenilabris* A. ADAMS, 1853; *M. dealbata* A. ADAMS, 1853; *M. grellouisi* RÉCLUZ, 1853; *M. uzielliana* CROSSE, 1861; *M. microstoma* SOWERBY, 1874; *M. cretacea* SOWERBY, 1874; *M. nassoides* SOWERBY, 1874; *M. (Chrysame) pellisserpentis* var. *minor* DAUTZENBERG & BOUGE, 1923; *M. (C.) pellisserpentis granata* sensu S. HIRASE, 1934)

Ki-iro-fude

- Type locality: 'Islands of Mindoro and Bohol, Philippines (found under stones at low water)', restricted to 'Mindoro island, Philippines' (CERNOHORSKY, 1976).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, Mauritius to Polynesia.
- Habitat: intertidal to 4 m., on reefs, under rocks and coral, in crevices.

**G3243 *M. (S.) bellula* A. ADAMS, 1853**

- Type locality: 'Isle of Capul, Philippines; on the reefs, low water'.
- Distribution: Gotō islands (off western Kyūshū), 48 fms. (A. ADAMS, 1853); Philippines.

**G3244 *M. (S.) typha* REEVE, 1845 in 1843-65**

(= *M. micans* REEVE, 1845; *M. (S.) saltata* PEASE, 1865; *Thala alba* PEASE, 1868; *M. tenuis* SOWERBY, 1874 non BEYRICH, 1854; *M. flexilabris* SOWERBY, 1880; *M. tenuis* var. *minor* STURANY, 1903 non WEINKAUFF, 1868; *M. pellucida* DALL, MS sensu J. CATE, 1963 nom.

*nud.*)

Chigo-fude

- Type locality: 'Loay, Island of Bohol, Philippines (found under stones at low water)'.  
• Distribution: Ogasawara islands (FUKUDA, 1994), Kii peninsula (KOYAMA, 1994-b) and southwards, P5, ECP4-ECP2, P2; Philippines, Australia, Red Sea to Polynesia, Hawaii.  
• Habitat: intertidal to 40 m., on reefs in sand and coral rubble.

□ Genus *Imbricaria* SCHUMACHER, 1817

Type species: *Imbricaria conica* SCHUMACHER, 1817 (mt.; = *Mitra conularis* LAMARCK, 1811)

(= *Conoelix* SWAINSON, 1821; *Conohelix*, *Conehelix*, *Conalix*, *Conelix*, *Conoehelix*, *Conalex*, *Conolix*, *Concelix* auct., nom. null., '*Indricaria*' sensu HABE & KOSUGE, 1966, err. pro *Imbri-*)

G3245 *I. conularis* (LAMARCK, 1811)

(= *I. conica* SCHUMACHER, 1817; *Conoelix marmoratus* SWAINSON, 1821; *C. lineatus* SWAINSON, 1821; *Mitra decorata* BLAINVILLE, 1825; *M. marmorata* SCHUBERT & WAGNER, 1829; *Conoelix swainsonii* LESSON, 1831; *M. vanikorensis* KÜSTER, MARTINI & CHEMNITZ, 1840 non QUOY & GAIMARD, 1833; *Mitra conica* REEVE, 1844; *Conelix conicus* (SCHUMACHER) sensu CHENU, 1859; *M. crouani* CROSSE, 1868; *I. conularis* (LAMARCK) sensu CERNOHORSKY, 1965; *Indricaria crouani* SOUVERBIE sensu HABE & KOSUGE, 1966)

Itomaki-chōchin-fude

- Type locality: none originally given; designated 'Vanikoro Island, Solomon islands' (CERNOHORSKY, 1991).  
• Distribution: P2; Taiwan and southwards, Philippines, Australia, Indonesia to Polynesia.  
• Habitat: intertidal to 11 m., in coral sand.  
• Original genus: *Mitra*.

G3246 *I. vanikorensis* (QUOY & GAIMARD, 1833)

(= *Mitra deburghiae* SOWERBY, 1879; *M. (Imbricaria) isomeres* MELVILL & SYKES, 1897)

Chōchin-fude

- Type locality: Vanikoro island, Solomon islands.  
• Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Red Sea to Fiji.  
• Habitat: intertidal to 10 m., sand and coral rubble.  
• Original genus: *Mitra*.

G3247 *I. punctata* (SWAINSON, 1821)

(= *Mitra truncata* KIENER, 1838; *M. ossea* REEVE, 1844)

Tsuno-iro-chōchin-fude

- Type locality: 'Tahiti' (French Polynesia).

- Distribution: Ogasawara islands, Kii peninsula (KOYAMA, 1994-b) and southwards, P5, ECP3-ECP2, P2; Philippines, Australia, Red Sea to Polynesia, Hawaii.  
• Habitat: intertidal to 160 m., clean to slightly muddy sand.  
• Original genus: *Conelix*.

G3248 *I. olivaeformis* (SWAINSON, 1821)

(= *Mitra dactyloidea* ANTON, 1838; *M. olivellaeformis* PILSBRY, 1921)

Makura-fude

- Type locality: 'South seas'; restricted to 'Viti Levu, Fiji Islands' (CERNOHORSKY, 1991).  
• Distribution: Kii peninsula (KOYAMA, 1994-b), Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, Cocos-Keeling islands to Polynesia, Hawaii.  
• Habitat: intertidal to 80 m., coral and sand.  
• Original genus: *Mitra*.

□ Genus *Scabricola* SWAINSON, 1840

Type species: *Mitra serpentina* LAMARCK, 1811 (s. d. GRAY, 1847; = *Voluta variegata* GMELIN, 1791)

(= *Scabricula*, *Scabrecola*, *Scaricola*, *Scabricopa* auct., nom. null.)

Subgenus *Scabricola* s. str.

G3249 *S. (S.) desetangsii* (KIENER, 1838 in 1834-80)

(= *Mitra variegata* sensu REEVE, 1844 non GMELIN, 1791; *M. suffecta* DAUTZENBERG & BOUGE, 1923; *M. praevariegata* ABRAD, 1946)

Kijibiki-fude

- Type locality: 'Île de France' (Mauritius).  
• Distribution: P2; Taiwan, Red Sea, South Africa to Samoa.  
• Habitat: intertidal to 225 m., in coral sand.  
• Original genus: *Mitra*.

G3250 *S. (S.) eximia* (A. ADAMS, 1853)

Midare-ara-fude (= Shimo-oki-ko-beni-fude)

- Type locality: none originally given; designated 'Mauritius' (CERNOHORSKY, 1991).  
• Distribution: Ogasawara islands (FUKUDA, 1994; 1995), Ryūkyū islands, ECP2, P2; Philippines, Australia, Mauritius to New Caledonia.  
• Habitat: intertidal to 37 m., on reefs.  
• Original genus: *Mitra*.

Subgenus *Swainsonia* H. & A. ADAMS, 1853

Type species: *Mitra fissurata* LAMARCK, 1811 (s. d. GRAY, 1847 for *Mitrella* SWAINSON, 1831; ICZN art. 67h)

(= *Mitrella* SWAINSON, 1831 non RISSO, 1826)

G3251 *S. (Sw.) fissurata* (LAMARCK, 1811)

(= *Mitrella fissurella* (sic) SWAINSON, 1831)

Kōjin-kasumi-fude (= Amime-fude)

- Type locality: none originally given; designated

'Mauritius, Indian Ocean' (CERNOHORSKY, 1991).

- Distribution: Kii peninsula (KOYAMA, 1994-b) and southwards, Tosa bay, western Japan Sea (Yamaguchi prefecture FUJIWARA, 1994), northwestern Kyūshū, ECP4-ECP2, P2; Philippines, Australia, Red Sea to Cocos islands.

- Habitat: intertidal to 31 m., in coral sand.

- Original genus: *Mitra*.

G3252 *S. (Sw.) casta* (GMELIN, 1791)

(= *Mitra fasciata* MARTYN, 1784 (invalid: ICZN op. 456); *M. matronalis* SCHUMACHER, 1817; *M. bicolor* DeFRANCE in BLAINVILLE, 1824; *M. laevis* A. ADAMS, 1853)

Zōge-fude

- Type locality: '*ad Amboinae littus septentrionale*' (north coast of Ambon island, Moluccas (Maluku), Indonesia).

- Distribution: Kii peninsula (KOYAMA, 1994-b) and southwards, P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2; Philippines, Australia, east Africa to Polynesia, Pitcairn islands.

- Habitat: intertidal to 12 m., in clean coral sand.

- Original genus: *Voluta*.

G3253 *S. (Sw.) ocellata* (SWAINSON, 1831)

(= *Mitra mariae* A. ADAMS, 1853)

Kasumi-fude

- Type locality: none originally given; designated 'Sumatra, Indonesia' (CERNOHORSKY, 1991).

- Distribution: Kii peninsula (KOYAMA, 1994-b) and southwards, Japan Sea (off Mikuriya, Fukui prefecture), Amami islands, ECP3-ECP2, P2; Philippines, Australia, eastern and southern Africa to Indonesia.

- Habitat: intertidal to 62 m., in coral sand.

- Original genus: *Mitrella*.

G3254 *S. (Sw.) incisa* (ADAMS & REEVE, 1850 in 1848-50)

Kizamime-ryūkyū-fude

- Type locality: 'China Sea'.

- Distribution: Okinawa (TSUCHIDA *et al.*, 1997), East China Sea.

- Original genus: *Mitra*.

□ Genus *Subcancilla* OLSSON & HARBISON, 1953

Type species: *Mitra sulcata* SWAINSON in SOWERBY I, 1825 (o. d.)

(= *Tiara auct. non* SWAINSON, 1831; *Taira* SHUTŌ, 1989 *nom. null.*)

G3255 *Su. verrucosa* (REEVE, 1845 in 1843-65)

(= *Mitra hystrix* MONTROUZIER in SOUVERBIE & MONTROUZIER, 1862 in 1859-79)

Iga-fude

- Type locality: Ticao island, Philippines.

- Distribution: Ogasawara islands (HORIKOSHI *et al.*, 1963) and westwards, Yaeyama islands and southwards, P2; Philippines, Indonesia to Marianas, Ellice islands, New Caledonia.

- Habitat: intertidal to 62 m., coral and black sand.

- Original genus: *Mitra*.

G3256 *Su. interlirata* (REEVE, 1844 in 1843-65)

(= *Mitra filaris* KÜSTER, 1839 *non* LINNAEUS, 1771; *M. pia* DOHRN, 1860; *M. novaehollandiae* SOWERBY, 1874 (*pars*); *M. (Cancilla) flammea* TESCH, 1915; *M. (C.) interlirata teschi* KOPERBERG, 1931; *M. (Tiara) tegalensis* OOSTINGH, 1935; *M. (T.) interlirata ickae (pars)* OOSTINGH, 1939; *M. (T.) yagurai* KIRA, 1959-a) Ō-itomaki-fude (= Yagura-fude)

- Type locality: Masbate island, Philippines; 4 fms.

- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Australia, Red Sea, tropical Indo-Pacific to Marquesas islands.

- Habitat: subtidal to 340 m., in sand and mud.

- Original genus: *Mitra*.

G3257 *Su. flammea* (QUOY & GAIMARD, 1833)

(= *Mitra flammigera* REEVE, 1844; *Ziba bacillum* (LAMARCK) *sensu* PECHER, PRIOR & PARKINSON, 1980)

- Type locality: 'supposedly Moluccas'; designated 'Aru Island, Moluccas, Indonesia' (CERNOHORSKY, 1991).

- Distribution: Okinawa islands and southwards, ECP2, P2; Red Sea to Philippines, Polynesia and Hawaii.

- Habitat: intertidal to 122 m., sand and coral rubble.

- Original genus: *Mitra*.

G3258 *Su. annulata* (REEVE, 1844 in 1843-65)

(= *Mitra nitens* KIENER, 1838 *non* RISSO, 1826; *M. amoena* A. ADAMS, 1853; *M. acutilirata* SOWERBY, 1874; *M. acuta* SOWERBY, 1879; *M. marionae* MELVILL, 1888)

- Type locality: Zanzibar, east Africa.

- Distribution: Kii peninsula and southwards, southwestern Shikoku (Okinoshima), P2; South China Sea, Philippines, China, Red Sea to Marquesas.

- Habitat: intertidal to 80 m., coral sand with seaweed or mud.

- Original genus: *Mitra*.

G3259 *Su. insculpta* (A. ADAMS, 1853-a)

(= *Mitra (Cancilla) circula* (KIENER) *sensu* CERNOHORSKY, 1965; *Su. malleti* PETIT de la SAUSSAYE *sensu* CERNOHORSKY, 1970) Tsumugata-itomaki-fude

- Type locality: 'Ceylon' (Sri Lanka).

- Distribution: Okinawa (Shinzato CERNOHORSKY, 1991); Red Sea, Persian Gulf to Samoa.

- Habitat: intertidal to 92 m., sand and mud.
- Original genus: *Mitra*.

G3260 *Su. abyssicola* (SCHEPMAN, 1911 in 1908-13)  
(= *Mitra (Scabrilica) osapiensis* KOPERBERG, 1931)  
Samehada-fude

- Type locality: 'Siboga' sta. 159, eastern Halmahera Sea, Indonesia: 0° 59.1' S., 129° 48.8' E., 411 m.
- Distribution: Sagami bay and southwards, Kii peninsula, P6-P5, ECP4-ECP2, P2; Philippines, northeastern Australia, Madagascar to New Caledonia.
- Habitat: 128-1340 m., in mud or sand.
- Original genus: *Mitra (Scabrilica)*.

G3261 *Su. duplilirata* (REEVE, 1845 in 1843-65)  
(= *Mitra lalage* MELVILL & STANDEN, 1901; *M. (Scabrilica) juttinga (sic)* KOPERBERG, 1931; *M. (C.?) astenomoides* NOMURA, 1935; *Su. juttingae* (KOPERBERG) *sensu* CERNOHORSKY, 1970)  
Fukure-samehada-fude

- Type locality: none originally given; designated 'Observatory Island, Linapacan Strait, Palawan, Philippines' (CERNOHORSKY, 1991).
- Distribution: P2; Taiwan, Gulf of Oman to China, northern Australia.
- Habitat: 13-85 m., mud and sand.
- Original genus: *Mitra*.

□ Genus *Ziba* H. & A. ADAMS, 1853

Type species: *Mitra carinata* SWAINSON, 1824 (s. d. WENZ, 1943)  
(= *Zeba* GARRETT, 1880 *nom. null.*; *Zeba* MARTENS, 1881 *nom. null.*)

G3262 *Z. rehderi* (WEBB, 1958)  
(= *Mitra millepuncata* SCHEPMAN, 1913 in 1908-13 *non* SOWERBY, 1889)

- Aya-nishiki-fude
- Type locality: Tosa bay, off Kōchi prefecture (southern Shikoku), 90 fms.
  - Distribution: Kii peninsula (KOYAMA, 1994-b), Tosa bay; east Africa to Midway island, Hawaii, Kermadec islands.
  - Habitat: 82-585 m., sand.
  - Original genus: *Mitra*.

G3263 *Z. cloveri* (CERNOHORSKY, 1971)

- Kurobā-fude
- Type locality: 75 miles southwest off Kaohsiung, Taiwan; 70 fms.
  - Distribution: Ogasawara islands (FUKUDA, 1995), Izu islands (dredged on Zenisu bank TSUCHIDA & IKEBE, 1991), and westwards, Kii peninsula (KOYAMA, 1994-b), P2; southwestern Taiwan and southwards, Philippines to Solomon islands.

- Habitat: subtidal to 183 m., sand.
- Original genus: *Cancilla (Ziba)*.

G3264 *Z. astyagis* (DOHRN, 1860)  
(= *Mitra bacillum* REEVE, 1844 *non* LAMARCK, 1811; *M. (Cancilla) carinata* SWAINSON *sensu* TRYON, 1882)  
Yūdachi-fude

- Type locality: New Caledonia.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indonesia to Papua New Guinea.
- Habitat: intertidal, sand.
- Original genus: *Mitra*.

G3265 *Z. pretiosa* (REEVE, 1844 in 1843-65)  
(= *Mitra (Cancilla) antoniae* H. ADAMS, 1871-a; *M. antonii (sic)* A. ADAMS *sensu* SOWERBY, 1874; *M. (Scabrilica) crenilifera* LAMARCK *sensu* TRYON, 1882; *M. acutilirata* SOWERBY *sensu* BERNARD, 1959)  
Hime-ara-fude

- Type locality: none originally given; designated 'Zanzibar, E. Africa' (CERNOHORSKY, 1991).
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2 (intertidal to 20 m., sand); Red Sea, Persian Gulf to South Africa (55 m., coarse sand and stones).
- Original genus: *Mitra*.

□ Genus *Cancilla* SWAINSON, 1831

Type species: *Tiara isabella* SWAINSON, 1831 (s. d. HERRMANNSEN, 1846)  
(= *Cancellia*, *Cancillia*, *Caniila* *auct., nom. null.*)

G3266 *C. isabella isabella* (SWAINSON, 1831)  
(= *Mitra yokoyamai* NOMURA, 1935; *C. acuminata* SHUTŌ, 1969; *C. isabella sensu* CERNOHORSKY, 1991)  
Aya-kara-fude

- Type locality: 'New Holland' (Australia); erroneous, redesignated 'Boshu, Japan' (Chiba prefecture, central Honshū. CERNOHORSKY, 1991).
- Distribution: Kii peninsula (KOYAMA, 1994-b) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Korea.
- Habitat: 50-366 m., sand.
- Original genus: *Tiara*.

G3267 *C. isabella morchii* (A. ADAMS, 1855-k)

(= *Mitra herklotsiana* DOHRN, 1861)  
• Type locality: 'Australia' (erroneous fide CERNOHORSKY, 1991).

- Kara-fude
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (off Yamagata prefecture, J3-J1), EC5, East China Sea; Korea, China.
  - Habitat: 20-100 m., sand.
  - Original genus: *Mitra*.

G3268 *C.? aegra* (REEVE, 1845 in 1843-65)

Ara-nunome-fude

- Type locality: none originally given; designated 'Bantam Island, Java, Indonesia' (CERNOHORSKY, 1991).
- Distribution: Japan (Ryūkyū islands), Taiwan (Kaohsiung, CERNOHORSKY, 1991); east Africa to Australia.
- Habitat: subtidal to 295 m.
- Original genus: *Mitra*.

G3269 *C.? subulata* (LAMARCK, 1811)

Takenoko-fude

- Type locality: none designated.
- Distribution: Okinawa islands and southwards, ECP2, P2.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Mitra*.

□ Genus *Domiporta* CERNOHORSKY, 1970

Type species: *Voluta filaris* LINNAEUS, 1771 (o. d.)

G3270 *D. filiaris* (LINNAEUS, 1771)

(= *Voluta filosa* BORN, 1778; *Mitra nexilis* MARTYN, 1784 (invalid: ICZN op. 456); *V. leucosticta* 'var. b' GMELIN, 1791; *Mitra nexilis* LAMARCK, 1811; *M. filosa borni* PHILIPPI, 1850; *M. filosa bernardiana* PHILIPPI, 1850)

Itomaki-fude (= Maru-itomaki-fude)

- Type locality: none originally given; designated 'Tonga Islands' after Martyn (CERNOHORSKY, 1991).
- Distribution: Ogasawara islands (FUKUDA, 1995), Kii peninsula (KOYAMA, 1994-b) and southwards, P5, ECP4-ECP2, P2; Philippines, Red Sea to Polynesia, Hawaii.
- Habitat: intertidal to 90 m., among seaweed in coral sand.
- Original genus: *Voluta*.

G3271 *D. praestantissima* (RÖDING, 1798)

(= *Mitra filosa* LAMARCK, 1844 (*pars*); *M. filosa gracilis* PHILIPPI, 1850; *M. (Cancilla) filaris* LIN. *sensu* HIRASE, 1934; *M. (C.) filaris var gracilis* PHILIPPI *sensu* DAUTZENBERG, 1935; *M. (C.) peasi* DOHRN *sensu* CERNOHORSKY, 1965)

Hoso-itomaki-fude (= Tōgata-itomaki-fude)

- Type locality: none originally given; designated 'Sumatra, Indonesia' (CERNOHORSKY, 1991).
- Distribution: Kii peninsula (KOYAMA, 1994-b) and southwards, P5, ECP4-ECP2, P2; Philippines, Australia, Andaman islands to Madagascar, Polynesia.
- Habitat: intertidal to 22 m., coral sand and seaweed.
- Original genus: *Mitra*.

G3272 *D. gloriola* (CERNOHORSKY, 1970)

(= *Mitra gracilis* REEVE, 1844 *non* LEA, 1841; *M. gracilis* REEVE *sensu* TRYON, 1882, Y. HIRASE, 1908, SCHEPMAN, 1911 in 1908-13)

- Type locality: Ticao island, Philippines; 6 fms.
- Distribution: Kii peninsula (KOYAMA, 1994-b) and southwards, P5, ECP4-ECP2, P2; Philippines, Indonesia to

Papua New Guinea.

- Habitat: intertidal to 30 m., coral sand.
- Original genus: *Cancilla* (*Domiporta*).

G3273 *D. shikamai* HABE, 1980-a

(= *Mitra (Tiara) abyssicola* SHIKAMA & HAYASHI in SHIKAMA, 1977 *non* SCHEPMAN, 1911 in 1908-13) Wadatsumi-itomaki-fude

- Type locality: Enshū-nada off Cape Daiō (Mie prefecture, central Honshū); 100-150 m.
- Distribution: western Kii peninsula (Shimokusui, Gobō district; Inami; Minabe; Kushimoto; Cape Shio KOYAMA, 1994-b), type locality.
- Habitat: 100-150 m., sand.

G3274 *D. sigillata* (AZUMA, 1965-a)

Hime-aya-fude (= Hime-aya-kawa-fude)

- Type locality: Enshū-nada off Atsumi peninsula, Aichi prefecture (central Honshū); 50 fms.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and westwards, Enshū-nada, Kii peninsula, Tosa bay.
- Habitat: 50-100 m., sand.
- Original genus: *Mitra* (*Scabricola*).

G3275 *D. granatina* (LAMARCK, 1811)

(= *Mitra scabriuscula* GRAY *sensu* REEVE, 1844; *M. (Scabricula) ehrenbergi* JICKELI, 1874; *M. (S.) scabriuscula* (LINNAEUS) *sensu* TRYON, 1882, Y. HIRASE, 1908; *M. (S.) scabricola candida* DAUTZENBERG & BOUGE, 1923 *non* REEVE, 1845; *M. (S.) scabricula sensu* KURODA, 1928; *M. (S.) granatina* (LAMARCK) *sensu* DAUTZENBERG, 1935; *M. scabricula* (LINNAEUS) *sensu* DANCE, 1974) Ara-fude-gai

- Type locality: 'Indian Ocean', restricted to 'Mahé Island, Seychelles' (CERNOHORSKY, 1991).
- Distribution: Kii peninsula (KOYAMA, 1994-b), Amami islands and southwards, ECP3-ECP2; Red Sea, Persian Gulf to Polynesia, Hawaii.
- Habitat: intertidal to 463 m., sand and coral rubble.
- Original genus: *Mitra*.

G3276 *D. carnicolor* (REEVE, 1844 in 1843-65)

(= *Mitra spiripunctata* GARRETT, 1880; *M. millepunctata* SOWERBY, 1889; *M. (Scabricula) antoniae* A. ADAMS *sensu* DAUTZENBERG & BOUGE, 1922; *M. (Cancilla) amoena* (A. ADAMS) *sensu* CERNOHORSKY, 1965) Niku-iro-fude

- Type locality: none originally given; designated 'Cebu, Philippine Islands' (CERNOHORSKY, 1991).
- Distribution: Kii peninsula (KOYAMA, 1994-b) and southwards, P5, ECP4-ECP2, P2; Philippines, Australia, Red Sea to Polynesia, Hawaii.



- Habitat: intertidal to 81 m., coral sand.
- Original genus: *Mitra*.

G3277 *D. rufilirata* (ADAMS & REEVE, 1850 in 1848-50)

(= *Mitra* (*Cancilla*) *flammea* QUOY (*pars*) sensu TRYON, 1882; *Cancilla sura* JOUSSEAUME, 1898)

Koge-iro-ara-fude

- Type locality: 'China Seas'.
- Distribution: southwestern Shikoku (off Okinoshima, 20 fms. AZUMA, 1960); east Africa to Andaman islands, northeastern Australia.
- Habitat: subtidal to 192 m., sand and sponges.
- Original genus: *Mitra*.

□ Genus *Neocancilla* CERNOHORSKY, 1966

Type species: *Voluta papilio* LINK, 1807

G3278 *N. papilio* (LINK, 1807 in 1806-08)

(= *Mitra sphaerulata* MARTYN, 1784 (invalid: ICZN op. 456); *Voluta leucostoma* GMELIN, 1791 (suppressed ICZN Op. 1292); *Mitra scabriuscula* LAMARCK, 1811; *N. papilis* sensu KOYAMA, 1994-b, *err. pro -ilio*)

Kuchibeni-ara-fude

- Type locality: none originally given; designated 'Tonga Islands' (CERNOHORSKY, 1991).
- Distribution: Kii peninsula (KOYAMA, 1994-b) and southwards, Ogasawara islands, P5, ECP4-ECP2, P2; Philippines, Australia, Red Sea to Polynesia.
- Habitat: intertidal to 13 m., in sand and seaweed.
- Original genus: *Voluta*.

G3279 *N. clathrus* (GMELIN, 1791)

(= *Voluta maculosa* GMELIN, 1791; *Mitra crenifera* LAMARCK, 1811; *V. mustelina* DILLWYN, 1817; *M. (Cancilla) tathnae* JICKELI, 1874; *M. eburnostoma* GARRETT, 1880; *M. emersoni* PILSBRY, 1921; *M. (Scabricula) crathrus (sic)* sensu KIRA, 1959)

Iwakawa-fude

- Type locality: none originally given; designated 'Arm Islands, Moluccas, Indonesia' (CERNOHORSKY, 1991).
- Distribution: Ogasawara islands, Shima peninsula (Cape Miki, 20 m. MATSUMOTO, 1979) and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Red Sea to Polynesia, Hawaii.
- Habitat: 5-463 m., sand, coral rubble and seaweed.
- Original genus: *Voluta*.

G3280 *N. takiisaoi* (KURODA, 1959-a)

(= *Mitra taki-isaoi* KURODA, 1958 *nom. nud.*)

Taki-fude

- Type locality: Hachijō island (Izu islands).
- Distribution: Hachijō island and westwards, P11, northern Ogasawara islands, Kii peninsula (off Kushimoto, 35 m. KOYAMA, 1994-b) and southwards, Tosa bay, ECP3-

ECP2, P2; Philippines to Kermadec islands, Pitcairn islands.

- Habitat: 30-100 m., sand and coral rubble.
- Original genus: *Mitra* (*Scabricula*).

G3281 *N. circulus* (KIENER, 1838 in 1834-80)

(= *M. circulata* sensu REEVE, 1844; *M. pura (pars)* A. ADAMS, 1853; *M. rufescens* A. ADAMS, 1853; *M. (Cancilla) filiaris* var. *circulata* KIENER sensu TRYON, 1882; *Cancilla beyerli* JOUSSEAUME, 1894; *M. (Scabricula) sphaerulata* (MARTYN) sensu K. MARTIN, 1895; *M. burnupiana* COOK, 1920; *M. (Scabricula) papilio* sensu KURODA, 1941; *M. (Mitra) tjikeusikensis* OOSTINGH, 1939; *M. (Cancilla) incarnata* (REEVE) sensu CERNOHORSKY, 1966)

Asa-itomaki-fude

- Type locality: none designated.
- Distribution: Kii peninsula (KOYAMA, 1994-b) and southwards, P5, ECP3-ECP2, East China Sea, P2; Philippines, Australia, Red Sea to Tuamotu Archipelago.
- Habitat: intertidal to 119 m., sandy mud, gravel or coral rubble.
- Original genus: *Mitra*.

Subfamily CYLINDROMITRINAE COSSMANN, 1899

(= CYLINDRINAE THIELE, 1929; PTERYGIINAE KURODA, 1934)

(Refs.: Cernohorsky, 1991)

□ Genus *Pterygia* RÖDING, 1798

Type species: *Pterygia nucella* RÖDING, 1798 (s. d. DALL, 1915; = *Voluta dactylus* LINNAEUS, 1767) (= *Cylindra* SCHUMACHER, 1817; *Cylindromitra* FISCHER, 1884; *Acuticylindra* IREDALE, 1929)

G3282 *P. dactylus* (LINNAEUS, 1767)

(= *Voluta spuria* GMELIN, 1791; *Pterygia nucella* RÖDING, 1798; *Mitra obesa* REEVE, 1844)

Imo-fude-gai

- Type locality: 'in India'; restricted to 'Bay of Bengal' after Lister & Kiener (CERNOHORSKY, 1991).
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Australia, India to Polynesia.
- Habitat: intertidal to 40 m., in fine sand or sandy mud.
- Original genus: *Voluta*.

G3283 *P. crenulata* (GMELIN, 1791)

(= *Cylindra coronata* SCHUMACHER, 1817; *C. elongata* HIRASE, 1908; *C. fastidiosa* IREDALE, 1929; *Cylindromitra crenulata toleranda* IREDALE, 1929; *Pterygia conus* (GMELIN) sensu ABBOTT, 1962)

Chirimen-imo-fude

- Type locality: 'Oceano indico' (Indian Ocean), restricted to 'Marudu Bay, Borneo, Indonesia' (CERNOHORSKY, 1991).

- Distribution: Kii peninsula (KOYAMA, 1994-b) and southwards, P5, ECP4-ECP2, P2; Philippines, Australia, Red Sea to Polynesia, Hawaii.
- Habitat: intertidal to 90 m., coral and sand.
- Original genus: *Voluta*.

G3284 *P. undulosa* (REEVE, 1844 in 1843-65)

(= *Mitra radula* SOWERBY, 1874)

Hime-imo-fude

- Type locality: 'Island of Ticao, Philippines (found among coral sand on the reefs at low water)'.
- Distribution: Kii peninsula (KOYAMA, 1994-b) and southwards, P5, ECP4-ECP2, P2; Philippines, Sri Lanka to northwestern Australia.
- Habitat: intertidal to 46 m., fine sand or mud.
- Original genus: *Mitra*.

G3285 *P. fenestrata* (LAMARCK, 1811)

(= *Mitra glans* REEVE, 1844)

Gobanme-imo-fude

- Type locality: 'Indian Ocean' (erroneous, redesignation 'pending' CERNOHORSKY, 1991)
- Distribution: Yaeyama islands and southwards, P2; Philippines, Australia to Tuamoto Archipelago.
- Habitat: intertidal to 55 m., mud.
- Original genus: *Mitra*.

G3286 *P. japonica* OKUTANI & MATSUKUMA, 1982

(= *P. elongata* KIRA, 1959 non HIRASE, 1908)

Naga-imo-fude

- Type locality: off Ushibuka, Amakusa, southwestern Kyūshū.
- Distribution: off Izu peninsula (OKUTANI & MATSUKUMA, 1982), Kii peninsula (Minabe; Cape Shio KOYAMA, 1994-b), western Kyūshū.
- Habitat: 30-40 m., sand.

G3287 *P. scabricula* (LINNAEUS, 1758)

(= *Mitra texturata* LAMARCK, 1811)

Maru-ara-fude

- Type locality: 'in *M. Mediterraneo*', amended (LINNAEUS, 1767) to 'in *India orientali*' (East Indies).
- Distribution: Kii peninsula (Minabe; Kushimoto KOYAMA, 1994-b), Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, east Africa to Samoa.
- Habitat: intertidal to 53 m., on reefs, under coral rubble, on sand.
- Original genus: *Buccinum*.

G3288 *P. sinensis* (REEVE, 1844 in 1843-65)

(= *Mitra crenulata* (pars) KIENER, 1838; *M. lima* SOWERBY, 1874)

Teramachi-imo-fude

- Type locality: 'Coast of China'.

- Distribution: Kii peninsula (KOYAMA, 1994-b) and southwards, Tosa bay, western Kyūshū, East China Sea, ECP4-ECP2, P2; Philippines, Australia to Solomon islands.
- Habitat: 90-196 m., sand.
- Original genus: *Mitra*.

G3289 *P. conus* (GMELIN, 1791)

(= *Pterygia conoidea* RÖDING, 1798; *Mitra conulus*

LAMARCK, 1811)

Toro-imo-fude

- Type locality: none originally given; designated 'Masbate Island, Philippines' (CERNOHORSKY, 1991).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, Indonesia to Fiji.
- Habitat: intertidal to 36 m., fine muddy sand among coral.
- Original genus: *Voluta*.

G3290 *P. nucea* (GMELIN, 1791)

(= *Mitra olivaria* LAMARCK, 1811; *M. ornata* SCHUBERT & WAGNER, 1829; *M. zebra* ANTON, 1838 non LAMARCK, 1811)

Tsumugata-imo-fude

- Type locality: none originally given; designated 'Ticao Island, Philippines' (CERNOHORSKY, 1991).
- Distribution: Kii peninsula (KOYAMA, 1994-b) and southwards, P5, ECP4-ECP2, P2; Philippines, Australia, east Africa to Polynesia.
- Habitat: intertidal to 10 m., coral sand.
- Original genus: *Voluta*.

Family **VOLUTOMITRIDAE GRAY, 1854**

(Refs.: Cernohorsky, 1970)

□ Genus ***Volutomitra* H. & A. ADAMS, 1853**

Type species: *Mitra groenlandica* BECK in MÖLLER, 1842 (s. d. FISCHER, 1884)

(= *Voltimitra* GRAY, 1857 *nom. null.*; *Volutamitra* STANDEN & ROEBUCK, 1892 *nom. null.*; *Volutamitra sensu* COATES, 1925)

G3291 *V. alaskana* DALL, 1902

Fude-hitachi-obi

- Type locality: Unimak island, eastern Bering Sea; 156 m., mud.
- Distribution: central Honshū (Sagami bay, 550-1020 m. OKUTANI, 1964-b; 1966; Kashima-nada 870 m. OKUTANI, 1964-b), northeastern Honshū (Iwate prefecture), Japan Sea (Sado island; off central Niigata prefecture, 250-1000 m.), Tsugaru strait, southern Hokkaidō (KURODA & HABE, 1950-c); Bering Sea to western USA.
- Habitat: 100-200 m., mud.

□ Genus ***Microvoluta* ANGAS, 1877-a**

Type species: *Microvoluta australis* ANGAS, 1877

(= *Mitravoluta* PRESTON, 1928 *nom. null.*)

G3292 *M. hondoana* (YOKOYAMA, 1922)

Kobito-otome-fude

- Type locality: Shitō, Ichihara City, Chiba prefecture, central Honshū (fossil).
- Distribution: central Honshū (Sagami bay; Suruga bay; off Izu peninsula).
- Habitat: 50-200 m., fine sand.

Family COSTELLARIIDAE MACDONALD, 1860

(= VEXILLIDAE THIELE, 1929)

□ Genus *Vexillum* RÖDING, 1798

Type species: *Voluta plicata* RÖDING, 1798 (= *Voluta plicaria* LINNAEUS, 1758)

(= *Turricula* FABRICIUS 1823 non SCHUMACHER, 1817; *Turricola*, *Vexilla*, *Vexillum auct.*, err.; *Turris* MONTFORT, 1810 non RÖDING, 1798; *Velpecula* DEFRANCE in BLAINVILLE, 1824 non JAROCKI, 1822; *Turricula* COSSMANN, 1899 non SCHUMACHER, 1817; *Tiara* SWAINSON, 1831; *Thiara auct.*, nom. null.; *Harpaeformis* LESSON, 1842; *Tosapusia* AZUMA, 1965)

Subgenus *Vexillum s. str.*

G3293 *V. (V.) plicarium* (LINNAEUS, 1758)

(= *V. lividum* RÖDING, 1798; *V. plicatum* RÖDING, 1798; *M. pullata* REEVE, 1844; *M. umbrosa* SOWERBY, 1874; *M. berthae* SOWERBY, 1879; *Turricula plicata* LAMARCK *sensu* IWAKAWA, 1900, Y. HIRASE, 1908) Ō-mino-mushi-gai

- Type locality: 'in *O. Asiatico*' (Asian Seas).
- Distribution: Kii peninsula (Cape Shio KOYAMA, 1995) and southwards, P5, ECP4-ECP2, P2; Philippines, Australia, Indo-Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Voluta*.

G3294 *V. (V.) vulpeculum* (LINNAEUS, 1758)

(= *V. superbum* RÖDING, 1798; *Mitra crispata* KÜSTER, 1840; *M. nodosa* SWAINSON, 1840; *M. jukesii* A. ADAMS, 1853; *M. fulvolirata* SOWERBY, 1879; *M. pervariabilis rugata*, DAUTZENBERG, 1935; *M. pervariabilis simulans* DAUTZENBERG, 1935; *V. sitangkaianum* CATE, 1968)

Kurifu-mino-mushi

- Type locality: 'in *O. Asiatico*' (Asian Seas).
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, Australia, Indo-Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Voluta*.

G3295 *V. (V.) taeniatum* (LAMARCK, 1811)

(= *V. gloriosum* NOODT, 1819; *Mitra vittata* SWAINSON, 1821; '*Turricula jucunda* DUNKER?' *sensu* Y. HIRASE, 1908; *V. ornatum coccineum* REEVE *sensu* S. HIRASE, 1934, KURODA & HABE, 1952-a; *V. ornatum*

(LINK) *sensu* HABE & KOSUGE, 1966)

Naga-mino-mushi

- Type locality: Indian Ocean.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, Indo-Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Mitra*.

G3296 *V. (V.) citrinum citrinum* (GMELIN, 1791)

(= *Mitra regina* SWAINSON in SOWERBY, 1828 *nom. nud.*; '*Vexillum (V.) cf. compressus*' *sensu* SHIKAMA, 1964)

Shimenawa-mino-mushi

- Type locality: none designated.
- Distribution: P2; Taiwan and southwards, Philippines, Indonesia.
- Habitat: intertidal, sand.
- Original genus: *Voluta*.

G3297 *V. (V.) citrinum compressum* SOWERBY II, 1874 in 1842-87

Hade-mino-mushi (= Hade-obi-mino-mushi)

- Type locality: Philippines.
- Distribution: P2; Taiwan and southwards, Philippines, Papua New Guinea.
- Habitat: intertidal, sand.

G3298 *V. (V.) citrinum filiareginae* J. CATE, 1961

(= *V. citrinum forma compressa sensu* SPRINGSTEEN & LEOBRERA, 1986)

Misakae-mino-mushi

- Type locality: 'Cape Melville, Balabac, Philippine Islands'.
- Distribution: P2; Taiwan and southwards, Philippines, western Pacific.
- Habitat: intertidal, sand.

**Notes:** originally ssp. of *V. regina*.

G3299 *V. (V.) coccineum* (REEVE, 1844 in 1843-65)

(= *V. ornatum sensu* KURODA & HABE, 1952-a)

Kagome-mino-mushi

- Type locality: 'Islands of Masbate and Luzon, Philippines (found on the reefs at low water)'.
- Distribution: Okinawa islands and southwards, P2; Philippines, southern China.
- Habitat: 3-30 m., sand.
- Original genus: *Mitra*.

G3300 *V. (V.) balteolatum* (REEVE, 1844 in 1843-65)

(= *Turricula corrugata sensu* Y. HIRASE, 1908)

Mino-mushi-gai

- Type locality: 'Molucca and Philippine Islands (found at the islands of Zebu and Burias under stones at low water)'.
- Distribution: Kii peninsula (Tanabe, KOYAMA, 1995), Tanegashima & Yakushima and southwards, ECP4-ECP2,

P2; Philippines, Indo-Pacific.

- Habitat: intertidal to 20 m., sand.
- Original genus: *Mitra*.

**G3301 *V. (V.) subdivisum* (GMELIN, 1791)**

(= *Mitra costellaris* LAMARCK, 1811)

Hiro-hito-suji-mino-mushi

- Type locality: 'in Oceano indico' (Indian Ocean).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, western Pacific, Papua New Guinea.
- Habitat: intertidal to 10 m., sand.
- Original genus: *Voluta*.

**G3302 *V. (V.) lyratum* (LAMARCK, 1811)**

(= *Mitra nigrina* LAMARCK, 1811)

Misuji-mino-mushi (= Sudare-mino-mushi)

- Type locality: 'l' Ocean indien' (Indian Ocean).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, Indo-Pacific.
- Habitat: low water, sand.
- Original genus: *Mitra*.

**G3303 *V. (V.) rugosum* (GMELIN, 1791)**

(= *Mitra corrugata* LAMARCK, 1811; *M. brionae* SOWERBY, 1889; *V. weberi* BARTSCH, 1918)

Shiwa-mino-mushi

- Type locality: none designated.
- Distribution: Ogasawara islands (FUKUDA, 1994), Okinawa islands and southwards, ECP2, P2; Philippines, Australia, Indo-Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Voluta*.

**G3304 *V. (V.) gruneri* (REEVE, 1844 in 1843-65)**

Hai-iro-mino-mushi

- Type locality: 'Island of Masbate, Philippines (found on the reefs at low water)'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, Indo-Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Mitra*.

**G3305 *V. (V.) curviliratum* (SOWERBY II, 1874 in 1842-87)**

(= *Mitra jonkeri* MARTIN, 1884; *M. formosensis* SOWERBY, 1889; *V. minahasse* SCHEPMAN, 1907; *M. adornata* TOMLIN, 1920; *V. utravis* MELVILL, 1928)

Taiwan-mino-mushi

- Type locality: none designated.
- Distribution: Yaeyama islands and southwards, P2; Philippines, Indonesia, Fiji.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Mitra*.

**G3306 *V. (V.) caffrum* (LINNAEUS, 1758)**

(= *Mitra bifasciata* SWAINSON, 1822; *M. zonalis* QUOY & GAIMARD, 1833)

Nasu-mino-mushi

- Type locality: none originally given; 'in O. Asiatico' (LINNAEUS, 1767).
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, Australia, central Indo-Pacific.
- Habitat: intertidal to 10 m., sand.
- Original genus: *Voluta*.

**G3307 *V. (V.) spretum* (A. ADAMS, 1863)**

- Type locality: Mishima, Japan Sea; 63 fms.
- Distribution: Japan Sea (35° N. KURODA & HABE, 1952-a).
- Original genus: *Callithea*.

**Notes:** possibly a turrid (CERNOHORSKY, note with type in BMNH).

**G3308 *V. (V.) isaoi* (KURODA & SAKURAI in KURODA, 1959-a)**

Isao-tsukushi

- Type locality: Tosa bay (southern Shikoku).
- Distribution: Kii peninsula (off Minabe), Tosa bay.
- Habitat: 100-200 m., sand.
- Original genus: *Mitropifex*.

**G3309 *V. (V.) mirabile* (A. ADAMS, 1853)**

(= *Mitra angulosa* REEVE, 1845 non KÜSTER, 1839; *M. commutata* DAUTZENBERG & BOUGE, 1923; *V. macfadyeni* COX, 1930)

Yūrei-tsukushi (= Kado-arabori-naga-tsukushi)

- Type locality: 'Socotra' (Cuming collection).
- Distribution: Kii peninsula (KOYAMA, 1995) and southwards, P5, ECP4-ECP2, P2; Philippines, Australia, Red Sea to Tuamotos, Pitcairn island.
- Habitat: subtidal to 53 m., sand.
- Original genus: *Mitra*.

**G3310 *V. (V.) takakuwai* CERNOHORSKY & AZUMA, 1974**

Takakuwa-tsukushi

- Type locality: Okinoshima, Kōchi prefecture, southern Shikoku; 20-30 fms.
- Distribution: Kii peninsula (KOYAMA, 1995) and southwards, Tosa bay; Philippines, Australia, western Pacific.
- Habitat: 40-150 m., sand.

**Subgenus *Costellaria* SWAINSON, 1840**

Type species: *Mitra rigida* SWAINSON, 1821 (= *Mitra semifasciata* LAMARCK, 1811)

(= *Callithea* SWAINSON, 1840 non FEISTHAMEL, 1835; *Uromitra* BELLARDI, 1887; *Cyllithea* MELVILL & STANDEN, 1895 nom. nud.; *Balcomitra* FINLAY, 1927; *Arenimitra* IREDALE, 1929; *Pulchritima* IREDALE,

1929; *Mitropifex* IREDALE, 1929)

G3311 *V. (C.) semifasciatum* (LAMARCK, 1811)

(= *Mitra rigida* SWAINSON, 1821)

Itokake-tsukushi

- Type locality: Pacific Ocean.
- Distribution: Kii peninsula (Nada, Gobō City KOYAMA, 1995), Amami islands and southwards, ECP3-ECP2, P2; Philippines, Red Sea to Samoa.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Mitra*.

G3312 *V. (C.) stainforthii* (REEVE, 1844 in 1843-65)

Beni-shibori-mino-mushi

- Type locality: 'Island of Burias, Philippines (found in coral sand at the depth of seven fathoms)'.
- Distribution: Amami Ōshima and southwards, ECP3-ECP2, P2; Philippines, Australia, Indo-western Pacific.
- Habitat: intertidal to 50 m., sandy mud & ooze.
- Original genus: *Mitra*.

G3313 *V. (C.) deshayesii* (REEVE, 1844 in 1843-65)

(= *Mitra fidicula* GOULD, 1850; *M. dunkeri* JICKELI, 1874; *M. alauda* SOWERBY, 1874; *V. nigricans* DAUTZENBERG & BOUGE, 1923)

Ko-tsukushi (= Benifu-mino-mushi; Kuri-iro-waka-tsukushi)

- Type locality: none designated..
- Distribution: Yaeyama islands and southwards, P2; Philippines, Australia to Papua New Guinea.
- Habitat: intertidal, coral sand.
- Original genus: *Mitra*.

G3314 *V. (C.) granosum* (GMELIN, 1791)

(= *V. cancellata* RÖDING, 1798; *V. (Pulchritima) stigmatarium* (LAMARCK) *sensu* SHIKAMA & HORIKOSHI, 1963)

- Type locality: 'in *Oceano indico*' (Indian Ocean).
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, Australia, Indo-Pacific.
- Habitat: intertidal to 30 m., sand.
- Original genus: *Voluta*.

G3315 *V. (C.) sanguisugum* (LINNAEUS, 1758)

(= *Voluta strigosa* GMELIN, 1791; *Mitra stigmataria* LAMARCK, 1811; *M. immaculata* TAPPARONE-CANEFRI, 1879; *M. condoriana* DAUTZENBERG & FISCHER, 1906; *M. albida*, *caerulescens*, *castaneosticta*, all DAUTZENBERG & BOUGE, 1923)

Kanoko-shibori-mino-mushi (= Kanoko-mino-mushi)

- Type locality: 'in *M. Mediterraneo*' (erroneous).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, Indo-western Pacific.
- Habitat: intertidal to 30 m., sand.
- Original genus: *Voluta*.

G3316 *V. (C.) castum* (H. ADAMS, 1872)

(= *Mitra hastata* SOWERBY, 1874)

Garasu-nomi-fude (= Shiro-une-mino-mushi)

- Type locality: Red Sea.
- Distribution: Ogasawara islands (FUKUDA, 1995), Kii peninsula (Minabe; Inami-Tsui KOYAMA, 1995); Red Sea to China, Samoa, Ellice islands.
- Habitat: subtidal to 34 fms, sand.
- Original genus: *Turricula* (*Thala*).

G3317 *V. (C.) leucozonias* (DESHAYES in LABORDE, 1834)

(= *Mitra cineracea* REEVE, 1845; *V. judaeorum* DOHRN, 1861; *V. moana* J. CATE, 1965 (*pars*))

Tōdaka-hama-zuto

- Type locality: 'Mer Rouge' (Red Sea).
- Distribution: Kii peninsula (Cape Shio), Amami islands and southwards, ECP3-ECP2, P2; Philippines, Red Sea to Tahiti.
- Habitat: intertidal to 100 m., coral.
- Original genus: *Vexillum*.

G3318 *V. (C.) spicatum* (REEVE, 1845 in 1843-65)

(= *Mitra fusiformis* KIENER, 1838 *non* BROCCCHI, 1814; '*Turricula cruentata* (CHENU) Reeve?' *sensu* Y. HIRASE, 1908)

Tokusa-tsukushi (= Tosa-tsukushi)

- Type locality: 'Island of Ticao, Philippines (found on the sand)'.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Andaman islands to New Caledonia.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Mitra*.

G3319 *V. (C.) acupictum* (REEVE, 1844 in 1843-65)

(= *Mitra autumnalis* DOHRN, 1860)

Cha-madara-tsukushi (= Kabafu-tsukushi)

- Type locality: 'Zanzibar, east coast of Africa'.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Australia, Indo-western Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Mitra*.

G3320 *V. (C.) unifasciatum* (WOOD, 1828 in 1818-28)

(= *Mitra clathrata* REEVE, 1844; *M. decora* REEVE, 1844; *M. propinqua* GARRETT, 1880; *M. dorothea* MELVILL & STANDEN, 1896)

Hana-kago-otome

- Type locality: none designated..
- Distribution: Sagami bay and southwards, P6-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2, P2; Philippines, Australia, Mauritius to Hawaii, Society islands.

- Habitat: subtidal to 100 m., sand.
- Original genus: *Voluta*.

G3321 *V. (C.) rusticum* (REEVE, 1845 in 1843-65)  
(= *Mitra zelotypa* REEVE, 1845; *M. crispa* GARRETT, 1873; *M. subquadrata* SOWERBY, 1874)

Beni-otome (= Inaka-tsukushi; Hishi-otome)

- Type locality: none designated.
- Distribution: Sagami bay and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, Red Sea, Indo-western Pacific.
- Habitat: subtidal to 30 m., on rocks and gravel.
- Original genus: *Mitra*.

G3322 *V. (C.) macrospirum* (A. ADAMS, 1853)  
(= *Mitropifex tokubeii* SAKURAI & HABE, 1964)

Hokuro-tsukushi (= Mushiro-tsukushi)

- Type locality: none designated (Cuming collection).
- Distribution: Ogasawara islands (FUKUDA, 1995), Kii peninsula (KOYAMA, 1995) and southwards, Tosa bay, P5, ECP4-ECP2, P2; Philippines.
- Habitat: subtidal to 200 m., sand.
- Original genus: *Mitra*.

G3323 *V. (C.) obeliscus* (REEVE, 1844 in 1843-65)  
(= *Mitra andamanica* G. & H. NEVILL, 1875; *M. subtruncata* SOWERBY, 1874; *Turricula quasillus* IREDALE, 1929)

Amime-tsukushi (= Nunome-tsukushi)

- Type locality: 'Bais, island of Negros, Philippines (found among coarse sand and stones at the depth of seven fathoms)'
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, Indo-western Pacific.
- Habitat: 10-100 m., sand.
- Original genus: *Mitra*.

G3324 *V. (C.) polygonum* (GMELIN, 1791)  
(= *Mitra angulosa* KÜSTER, 1839)

Chie-fude (= Heritori-mino-mushi)

- Type locality: none designated.
- Distribution: Kii peninsula (KOYAMA, 1995) and southwards, P5, ECP4-ECP2, P2; Philippines.
- Habitat: 10-50 m., sand.
- Original genus: *Voluta*.

G3325 *V. (C.) michau* (CROSSE & FISCHER, 1864)  
(= *Mitra rigida sensu* REEVE, 1844 non SWAINSON, 1821; *M. salmonea, intertaeniata, laevicosta*, all SOWERBY, 1874; *M. pulchra* GARRETT, 1880)

Waka-tsukushi (= Kabasuji-tsukushi)

- Type locality: 'Poulo-Condor' (probably Condor (Con Son) island, off southern Vietnam).
- Distribution: Amami islands and southwards, ECP3-

ECP2, P2; Philippines, tropical western Pacific.

- Habitat: intertidal to 20 m., sand.
- Original genus: *Mitra*.

G3326 *V. (C.) coronatum* (HELBLING, 1779)

(= *Mitra concentrica* REEVE, 1844; *M. mucronata* SWAINSON, 1844; *M. nodilirata* A. ADAMS, 1853; *M. astephana* MELVILL, 1910)

Kamuri-tsukushi (= Kagome-tsukushi)

- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, Indo-western Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Voluta*.

G3327 *V. (C.) semisculptum* (ADAMS & REEVE, 1850 in 1848-50)

Usu-iro-mino-mushi

- Type locality: 'Sooloo' (Sulu) islands (Philippines), 'about thirty fathoms'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Indo-Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Mitra*.

G3328 *V. (C.) sculptile* (REEVE, 1845 in 1843-65)  
(= *Mitropifex kurodai* SAKURAI & HABE, 1964-b)

Taoyaka-tsukushi (= Kuroda-tsukushi)

- Type locality: 'Island of Ticao, Philippines (found under stones at low water)'
- Distribution: Sagami bay and southwards, Izu islands, P6-P5; Philippines, Red Sea to Fiji.
- Habitat: intertidal to 200 m., sand.

G3329 *V. (C.) costatum* (GMELIN, 1791)

(= *Mitra subulata* LAMARCK, 1811; *M. ignea* WOOD, 1828 in 1818-28; *M. vitellina* GOULD, 1850; *M. lanceolata* HERVIER, 1898; '*Mitropifex? isaotakii* KURODA, 1961' *sensu* WILSON, 1994)

Takenoko-tsukushi

- Type locality: none designated.
- Distribution: Kii peninsula (off Minabe KOYAMA, 1995); Philippines, Rabaul (Papua New Guinea), Australia.
- Habitat: 2-21 m., sand.

G3330 *V. (C.) suluense* (ADAMS & REEVE, 1850 in 1848-50)

(= *Mitra rectilateralis* SOWERBY, 1874; *M. exquisita* SOWERBY, 1889; *M. tomlini* MELVILL, 1925; '*Uromitra* *ractilaterale*' *sensu* KURODA, 1960)

Ō-tsukushi

- Type locality: Sulu sea, Philippines.
- Distribution: Ogasawara islands (FUKUDA, 1995), Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, Indo-western Pacific.
- Habitat: 5-50 m., sand.

- Original genus: *Mitra*.

**G3331 *V. (C.) acuminatum* (GMELIN, 1791)**

(= *Voluta elata* RÖDING, 1798; *Mitra rosea* KIENER, 1838; *M. crebrilirata* REEVE, 1844; *M. impressa* REEVE, 1844; *M. rubricata* REEVE, 1845; *Turricula layardi* A. ADAMS, 1855; *M. tenuilirata* SOWERBY, 1874)

Une-shige-tsukushi

- Type locality: 'Tranquebariae' (Tranquebar coast, southern India).
- Distribution: Kii peninsula (off Nada KOYAMA, 1983; off Tsui; off Sakai KOYAMA, 1995) and southwards, P2; Taiwan, Philippines, Australia, Indo-western Pacific.
- Habitat: intertidal to 50 m., sand.
- Original genus: *Voluta*.

**G3332 *V. (C.) cruentatum* (GMELIN, 1791)**

(= *Mitra harpifera* LAMARCK, 1811; *M. harpaeformis* LAMARCK, 1822 in 1815-22; *M. armillata* REEVE, 1845; *M. proxima* G. & H. NEVILL, 1875; *M. sandwichensis* G. & H. NEVILL, 1875)

Mike-iro-tsukushi (= Ebi-cha-iro-mino-mushi)

- Type locality: 'in Oceano indico' (Indian Ocean).
- Distribution: Okinawa and southwards, ECP2, P2; Philippines, Australia, Indo-western Pacific.
- Habitat: intertidal, sand.
- Original genus: *Voluta*.

**G3333 *V. (C.) zebuense* (REEVE, 1844 in 1843-65)**

(= *Mitra rorata* GOULD, 1850; *M. rubella* ADAMS & REEVE, 1850 in 1848-50; *M. rufomaculata* SOUVERBIE, 1860; *M. salmonea (pars)* SOWERBY, 1874; *M. praetexta* SOWERBY, 1874; *M. punctata* SOWERBY, 1874; *M. chariessa* MELVILL, 1888)

Kikai-tsukushi (= Chibi-tsukushi; Murakumo-tsukushi)

- Type locality: 'Island of Zebu,' (Cebu) 'Philippines (found on the reefs at low water)'.
- Distribution: Kii peninsula (KOYAMA, 1995) and southwards, Tosa bay, P5, ECP4-ECP2, P2; Philippines, Australia, western Pacific.
- Habitat: 20-50 m., sand.
- Original genus: *Mitra*.

**G3334 *V. (C.) fuscoapicatum* (E. A. SMITH, 1879)**

(= *Mitra bronni* DUNKER, 1860 non MICHELOTTI, 1847; *M. suluensis* E. A. SMITH, 1875 non ADAMS & REEVE, 1850 in 1848-50; *Turricula collinsoni* A. ADAMS sensu Y. HIRASE, 1908; *T. (Costellaria) collinsoni sensu* IWAKAWA, 1919; *fuscopictus, fuscopictum auct.*)

Tsukushi-gai

- Type locality: 'east of Kii' (Kii peninsula, central Honshū): 34° 13' N., 136° 13' E., 48 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, western Pacific to Fiji.

- Habitat: 10-30 m., sand.

- Original genus: *Mitra*.

**G3335 *V. (C.) japonicum* (A. ADAMS, 1864-g)**

(= *Turricula (Costellaria) crebrilirata* REEVE sensu IWAKAWA, 1919; '*V. (Uromitra) sp.*' sensu KIRA, 1959)

Naga-tsukushi

- Type locality: 'Kii-no-Osima' (Kii-Ōshima, Wakayama prefecture, central Honshū).
- Distribution: Ogasawara islands (FUKUDA, 1995), Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, western Pacific.
- Habitat: 20-50 m., fine sand.
- Original genus: *Mitra*.

**G3336 *V. (C.) hilare* (KURODA & HABE in KURODA et al., 1971)**

Yorokobi-tsukushi

- Type locality: Sagami bay, central Honshū.
- Distribution: west off Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986), Sagami bay, Kii peninsula (off Minabe; Cape Shio KOYAMA, 1995).
- Original genus: *Mitropifex*.

**G3337 *V. (C.) amanda* (REEVE, 1844 in 1843-65)**

(= *Mitra immaculata* MELVILL & STANDEN, 1901 non TAPPARONE-CANEFRI, 1879; *M. malcolmensis* MELVILL & STANDEN, 1901; *M. marciae* SOWERBY, 1913)

Misuji-tsukushi (= Amanda-tsukushi)

- Type locality: 'Isle of Burias' and 'Negros', Philippines.
- Distribution: Kii peninsula (KOYAMA, 1995) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Australia, Indo-western Pacific.
- Habitat: 10-50 m., sand.
- Original genus: *Mitra*.

**G3338 *V. (C.) collinsoni* (A. ADAMS, 1864-g)**

(= *Mitra polycymata* DALL, MS sensu J. CATE, 1963 nom. nud.; *M. iota* DALL, MS sensu J. CATE, 1963 nom. nud.)

Korinson-mino-mushi (= Korinson-tsukushi)

- Type locality: Japan.
- Distribution: Sagami bay and southwards, P6-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2, P2; Philippines, Indonesia to Hawaii, Fiji.
- Habitat: intertidal to 100 m., sand.
- Original genus: *Costellaria*.

**G3339 *V. (C.) gotoense* (E. A. SMITH, 1879)**

Gotō-tsukushi

- Type locality: Naruse to, Gotō islands (off western Kyūshū).
- Distribution: Ogasawara islands (FUKUDA, 1995), Sagami bay and westwards, Kii peninsula (Kushimoto

KOYAMA, 1995), P6-P5, western Kyūshū.

- Habitat: 30-100 m., sand.

G3340 *V. (C.) mutabile* (REEVE, 1844 in 1843-65)

(= *Mitra asperrima* DOHRN, 1861; *M. montrouzeri* SOUVERBIE, 1875; *M. martini* SCHEPMAN, 1907 non PHILIPPI, 1887; *M. souverbiei* DAUTZENBERG & BOUGE, 1923)

Mushiro-otome-fude

- Type locality: 'Island of Ticao, Philippines (found under stones, at low water, and at the depth of about ten fathoms)'.
- Distribution: Kii peninsula (KOYAMA, 1995) and southwards, Tosa bay, southern Kyūshū (Kagoshima); Malaysia to Tonga, Samoa.
- Habitat: intertidal to 30 m., sand.
- Original genus: *Mitra*.

G3341 *V. (C.) angustissimum* (E. A. SMITH, 1903)

Odayaka-tsukushi

- Type locality: South Nilandu Atoll, Maldive islands; 1-36 fms.
- Distribution: Ogasawara islands (FUKUDA, 1994), Bōsō peninsula and southwards, P7-P5, Seto inland sea, western Japan Sea (Yamaguchi prefecture FUKUDA *et al.*, 1992), EC5, ECP4-ECP2, P2; Philippines, Australia, Red Sea to Fiji.
- Habitat: subtidal to 70 m., sand.
- Original genus: *Mitra*.

G3342 *V. (C.) exasperatum* (GMELIN, 1791)

(= *Mitra torulosa* LAMARCK, 1811; *M. corrugata* WOOD, 1828 in 1818-28 non LAMARCK, 1811; *M. transenna* MELVILL, 1898; *M. hadfieldi* MELVILL & STANDEN, 1895; *M. pasithea* MELVILL & STANDEN, 1901; *M. exusta* DAUTZENBERG & BOUGE, 1923; *Arenimitra michaelis* IREDALE, 1929; *Arenimitra exasperata sensu* KOYAMA, 1995 err.)

Hama-zuto

- Type locality: 'in Oceano indico' (Indian Ocean).
- Distribution: Kii peninsula (KOYAMA, 1995) and southwards, P5, southern Kyūshū, ECP4-ECP2, P2; Philippines, Australia, Indo-western Pacific, Mozambique to Micronesia, Polynesia.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Voluta*.

G3343 *V. (C.) pacificum* (REEVE, 1844 in 1843-65)

(= *Mitra wisemani* DOHRN, 1860; *M. contempta* DAUTZENBERG & BOUGE, 1923)

Chijimi-hama-zuto

- Type locality: 'Lord Hood's Island, Pacific Ocean; Cuming' (probably Marutea, 21° 30' S., 135° 33' W.)
- Distribution: Kii peninsula (KOYAMA, 1995) and

southwards, P5, southern Kyūshū, ECP4-ECP2, P2; Philippines, Australia, Indo-western Pacific.

- Habitat: intertidal to 20 m., sand.
- Original genus: *Mitra*.

G3344 *V. (C.) cadaverosum* (REEVE, 1844 in 1843-65)

(= *Mitra mutica* DAUTZENBERG & BOUGE, 1923; *M. rubrozonata* DAUTZENBERG & BOUGE, 1923)

Toge-hama-zuto

- Type locality: 'Philippine and Lord Hood's Islands (found under stones at low water); Cuming.' ('Lord Hood's island' is probably Marutea, 21° 30' S., 135° 33' W.)
- Distribution: Kii peninsula (Kushimoto KOYAMA, 1995), Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, Indo-western Pacific.
- Habitat: intertidal, sand.
- Original genus: *Mitra*.

G3345 *V. (C.) fortiplicatum* (PEASE, 1868-a)

(= *Mitra aubryana* HERVIER, 1897; *V. kewaloensis* J. CATE, 1963)

Kokoa-no-tsukushi-gai

- Type locality: 'Paumotos' (Polynesia).
- Distribution: Kii peninsula (Cape Shio KOYAMA, 1995), Amami islands and southwards, ECP3-ECP2, P2; Philippines, Loyalty islands (New Caledonia) to Hawaii, Polynesia.
- Habitat: intertidal, rocks.
- Original genus: *Turricula* (*Costellaria*).

Subgenus *Pusia* SWAINSON, 1840

Type species: *Mitra microzonias* LAMARCK, 1811

(= *Pasia* MARTENS, 1903 *nom. null.*; *Pussia* FRIEDBERG, 1911 *nom. null.*; *Ebenomitra* MONTEROSATO, 1917; *Pusiola* MONTEROSATO, 1917; *Pusiolina* COSSMANN, 1921; *Idiochila* PILSBRY, 1921; *Pusidina* PARENZEN, 1970 *nom. nud.*)

G3346 *V. (P.) microzonias* (LAMARCK, 1811)

(= *Voluta sulcata* GMELIN, 1791 *nom. nud.*; *Mitra simplicata* BRODERIP, 1836; *M. discors* KÜSTER, 1840; *M. bilineata* REEVE, 1845; *M. infrafasciata* SOUVERBIE, 1865; *M. glabra* PEASE, 1868; *M. lubrica* PEASE, 1869; '*Pusia multicostata* (?)' *sensu* KURODA, 1928; *Pusia vavakuana* LADD & HOFFMEISTER, 1945; '*P. microzonalis*' *sensu* SAKURAI, 1986)

Kuro-otome

- Type locality: Pacific Ocean.
- Distribution: Ogasawara islands (FUKUDA, 1994), Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, Indo-western Pacific.
- Habitat: subtidal to 10 m., rocks.
- Original genus: *Mitra*.

G3347 *V. (P.) speciosum* (REEVE, 1844 in 1843-65)



(= *V. trizonalis* DAUTZENBERG, 1935)

Otome-fude

- Type locality: 'Island of Capul, Philippines (found on the reefs)'.
- Distribution: Kii peninsula (KOYAMA, 1995) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Australia, Mauritius to Tuamotu archipelago.
- Habitat: intertidal to 5 m., sand.
- Original genus: *Mitra*.

G3348 *V. (P.) consanguineum* (REEVE, 1845 in 1843-65)

(= *Mitra russa* GOULD, 1860; '*V. (P.) pardalis* (KÜSTER, 1841)' sensu KURODA, 1928)

Miyori-otome

- Type locality: none designated.
- Distribution: Ogasawara islands (FUKUDA, 1994), Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, Indo-western Pacific.
- Habitat: intertidal, coral sand.
- Original genus: *Mitra*.

G3349 *V. (P.) pardalis* (KÜSTER, 1840 in 1839-45)

Hoso-miyori-otome

- Type locality: 'An der Insel Java' (Indonesia).
- Distribution: Amami islands and southwards; Indonesia, Australia.
- Habitat: intertidal, coral sand.
- Original genus: *Mitra*.

G3350 *V. (P.) leucodesma* (REEVE, 1845 in 1843-65)

Hanawa-otome

- Type locality: 'Island of Ticao, Philippines (found under stones at low water)'.
- Distribution: Kii peninsula (Cape Shio KOYAMA, 1995), Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, India to Fiji.
- Habitat: intertidal, rocks.
- Original genus: *Mitra*.

G3351 *V. (P.) amabile* (REEVE, 1845 in 1843-65)

(= *Mitra encausta* GOULD, 1850)

Mame-otome

- Type locality: 'Islands of Ticao and Capul, Philippines (found under stones at low water)'.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Australia, Indo-western Pacific.
- Habitat: intertidal, rocks.
- Original genus: *Mitra*.

G3352 *V. (P.) lautum* (REEVE, 1845 in 1843-65)

(= *Mitra adamsi* DOHRN, 1861)

Hade-otome (= Torikago-otome)

- Type locality: 'Island of Masbate, Philippines (found under stones at low water)'.

- Distribution: Ogasawara islands (FUKUDA, 1995), Bōsō peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Australia to Polynesia, Hawaii.

- Habitat: intertidal, sand.

- Original genus: *Mitra*.

G3353 *V. (P.) cancellarioides* (ANTON, 1838)

(= *Mitra fraga* KIENER, 1838 non QUOY & GAIMARD, 1833; *M. tuberculata* KIENER, 1839; *M. pinguis* REEVE, 1845; *Turricula nodosa sensu* Y. HIRASE, 1908; *Pusia nodosa sensu* KURODA, 1928)

Arare-otome

- Type locality: none designated.

- Distribution: Kii peninsula (KOYAMA, 1995) and southwards, P5, ECP4-ECP2, P2; Philippines, Australia, Seychelles to Polynesia.

- Habitat: intertidal, coral reefs and rocks.

- Original genus: *Mitra*.

G3354 *V. (P.) aureolatum* (REEVE, 1844 in 1843-65)

Hana-otome

- Type locality: 'Island of Masbate, Philippines (found under stones at low water)'.

- Distribution: Kii peninsula (KOYAMA, 1995) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific.

- Habitat: intertidal, coral sand.

- Original genus: *Mitra*.

G3355 *V. (P.) patriarchalis* (GMELIN, 1791)

(= *Mitra depressa* DALL, MS sensu J. CATE, 1963 nom. nud.)

Kuchibeni-otome

- Type locality: '*in Oceano indico*' (Indian Ocean).

- Distribution: Ogasawara islands (FUKUDA, 1995), Kii peninsula (KOYAMA, 1995) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Australia, Indo-Pacific.

- Habitat: subtidal to 4 m., rubble.

- Original genus: *Voluta*.

G3356 *V. (P.) cavea* (REEVE, 1844 in 1843-65)

(= *Mitra porphyretica* REEVE, 1844; *M. satsumae* DALL, 1926)

Somewake-otome

- Type locality: none designated..

- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, Indonesia to Marquesas.

- Habitat: intertidal to 10 m., coarse sand and stones.

- Original genus: *Mitra*.

G3357 *V. (P.) tusum* (REEVE, 1845 in 1843-65)

Kasuri-otome

- Type locality: 'Puerto Galero, Island of Mindoro, Philippines (found on the sands at low water)'.

- Distribution: Kii peninsula (KOYAMA, 1995) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Australia, Red Sea to Marquesas.

- Habitat: subtidal, rubble.

- Original genus: *Mitra*.

G3358 *V. (P.) discolorium* (REEVE, 1845 in 1843-65)

(= *Pusia dilectissima* MELVILL & SYKES, 1899; '*Turricula discoloria*' sensu Y. HIRASE, 1908)

Shima-otome

- Type locality: none designated.

- Distribution: Ogasawara islands (FUKUDA, 1994), Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2; Philippines, Australia, Indo-western Pacific.

- Habitat: intertidal to 20 m., rubble.

- Original genus: *Mitra*.

G3359 *V. (P.) daedalum* (REEVE, 1845 in 1843-65)

Hama-otome

- Type locality: 'Island of Ticao, Philippines (found in sandy mud at the depth of six fathoms)'.

- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, Indo-western Pacific.

- Habitat: intertidal to 20 m., rubble.

- Original genus: *Mitra*.

G3360 *V. (P.) inermis inermis* (REEVE, 1845 in 1843-65)

(= *Mitra (Costellaria) hizenensis* PILSBRY, 1901)

Hizen-tsukushi

- Type locality: 'Puteao, Province of Albay, Island of Luzon (found on the sands)' (Philippines).

- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2; Philippines, Korea, western Pacific.

- Habitat: intertidal to 20 m., rubble.

- Original genus: *Mitra*.

G3361 *V. (P.) inermis awajiense* (PILSBRY, 1901)

Awaji-tsukushi

- Type locality: Awaji island, eastern Seto inland sea.

- Distribution: Kii peninsula (KOYAMA, 1995).

- Original genus: *Pusia*.

G3362 *V. (P.) inermis kraussi* (DUNKER, 1861-b)

Kurausu-otome

- Type locality: Japan (from article title).

- Distribution: southwestern Hokkaidō (Okushiri island) and southwards, P10-P5, Japan Sea (J4-J1), EC5.

- Habitat: intertidal among rocks and gravel.

- Original genus: *Mitra*.

**Note:** specimens from Japan identified as *Kobito-mame-otome Mitra hanleyi* DOHRN, 1861 in 1860-61 belong to a new species, currently in press (ROSENBERG, pers. comm.)

G3363 *V. (P.) modestum* (REEVE, 1845 in 1843-65)

(= *Mitra lubens* REEVE, 1845; *M. compta* A. ADAMS, 1853; *M. eudianthe* MELVILL, 1895; *M. farda* DALL, MS sensu J. CATE, 1963 *nom. nud.*)

Sakura-otome (= Ukare-otome)

- Type locality: 'Island of Ticao, Philippines (found on the reefs at low water)'.

- Distribution: Ogasawara islands (FUKUDA, 1994), Kii peninsula (Cape Shio KOYAMA, 1995), Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, Indo-Pacific.

- Habitat: intertidal to 20 m., sand.

- Original genus: *Mitra*.

G3364 *V. (P.) luculentum* (REEVE, 1845 in 1843-65)

(= *Mitra diachroa* ADAMS & REEVE, 1850 in 1848-50; *M. graeffei* CROSSE, 1867)

Noshime-otome (= Hime-noshime-otome)

- Type locality: 'Philippine Islands'.

- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, Indo-western Pacific to Samoa.

- Habitat: intertidal, under coral on reefs.

- Original genus: *Mitra*.

G3365 *V. (P.) nakama* (DALL, 1926)

Habuso-otome

- Type locality: Nakama island, Okinawa.

- Distribution: Kii peninsula and southwards, P5, southwestern Kyūshū, ECP4-ECP2, P2; western Pacific.

- Habitat: intertidal to 20 m., rubble.

- Original genus: *Mitra*.

G3366 *V. (P.) rubrum* (BRODERIP, 1836-b)

(= *Mitra rhodinosphaera* MELVILL, 1888; *M. rhodochroa* HERVIER, 1897; *M. pilsbryi* HEDLEY, 1899) Rubii-otome

- Type locality: '*ad insulam Lord Hood's dictam*. Found on *Meleagrina margaritifera*'. (probably Marutea, 21° 30' S., 135° 33' W., Pacific Ocean).

- Distribution: Tanegashima & Yakushima and southwards, ECP4-ECP2 (Okinawa KUBO, 1997-b), P2; Philippines, Madagascar to Hawaii, Society islands.

- Habitat: subtidal to 100 m., rocks and gravel.

- Original genus: *Tiara*.

G3367 *V. (P.) nitidissimum* (MELVILL & STANDEN, 1895)

(= *Mitra capricornea* HEDLEY, 1907; *M. rubida*

DAUTZENBERG & BOUGE, 1923; *Pusia rubra*

(BRODERIP) sensu KURODA, 1960; *V. (P.) salisburyi* CERNOHORSKY, 1976)

Momo-iro-otome (= Usu-beni-otome)

- Type locality: Lifu, Loyalty islands (New Caledonia).

- Distribution: Kii peninsula (Kushimoto KOYAMA, 1995), Okinawa and southwards, ECP2, P2; Philippines, New Caledonia, Australia to Hawaii.

- Habitat: subtidal, rocks.

- Original genus: '*Mitra* (*Costellaria*?)'.

G3368 *V. (P.) suave* (SOVERBIE, 1875 in 1875-77) (= *Mitra mitata* DALL, MS *sensu* J. CATE, 1963 *nom. nud.*)

Hina-otome

- Type locality: Lifu, Loyalty islands (New Caledonia).
- Distribution: Kii peninsula (KOYAMA, 1995) and southwards, P5, EC5, ECP4-ECP2 (Okinawa KUBO, 1997-b), P2; Philippines, Australia, Madagascar to Hawaii, Tuamotu archipelago.
- Habitat: intertidal to 20 m., rubble.
- Original genus: *Mitra*.

G3369 *V. (P.) diutenerum* (HERVIER, 1897)

Hina-otome-fude

- Type locality: Lifu, Loyalty islands, New Caledonia.
- Distribution: Okinawa (Okanami island, 16-29 m. KUBO, 1997-b); Madagascar to Hawaii and Tuamotos.
- Habitat: subtidal to 100 m., sand.
- Original genus: *Mitra* (*Pusia*).

G3370 *V. (P.) plurinotatum* (HERVIER, 1897)

Kaneko-otome-fude

- Type locality: Loyalty islands, New Caledonia.
- Distribution: Okinawa (Onna district, 5-25 m. KUBO, 1997-b); Guam, Hawaii, Kwajalein, New Caledonia.
- Habitat: subtidal to 25 m., sand.
- Original genus: *Mitra* (*Pusia*); as *var.* of *M. (P.) goubini*.

G3371 *V. (P.) goubini* (HERVIER, 1897)

Ichiretsu-kaneko-otome-fude

- Type locality: Loyalty islands, New Caledonia.
- Distribution: Okinawa (Cape Kyan KUBO, 1997-b); Guam, Hawaii, Kwajalein, New Caledonia.
- Habitat: subtidal to 15 m., sand.
- Original genus: *Mitra* (*Pusia*).

G3372 *V. (P.) loyaltyensis* (HERVIER, 1897)

Kuroyuri-otome-fude

- Type locality: Loyalty islands, New Caledonia.
- Distribution: Okinawa (Seragaki, 23 m. KUBO, 1997-b); New Caledonia, Kwajalein, Marshall islands.
- Original genus: *Mitra* (*Pusia*).

G3373 *V. (P.) recurvirostris* (SOWERBY III, 1908-a)

(= *Mitra recurva* SOWERBY III, 1889-a *non* REEVE, 1845)

Yoroi-otome-fude

- Type locality: 'Mauritius'.
- Distribution: Okinawa (Onna district, 5 m. KUBO, 1997-b); Mauritius to Hawaii.

- Original genus: *Mitra*.

G3374 *V. (P.) catenatum* (BRODERIP, 1836)

Kusari-maki-otome-fude

- Type locality: Annaa island, Tuamotu archipelago.
- Distribution: Okinawa (Onna district, 15 m. KUBO, 1997-b); Hawaii, Indo-west Pacific
- Original genus: *Tiara*.

G3375 *V. (P.) corallinum* (REEVE, 1845 in 1843-65)

Sango-otome

- Type locality: 'Island of Masbate, Philippines (found on the sands)'.
- Distribution: Kii peninsula (KOYAMA, 1995) and southwards, P5, ECP4-ECP2, P2; Philippines, Australia.
- Habitat: intertidal to 20 m., rubble.
- Original genus: *Mitra*.

G3376 *V. (P.) pisolinum* (LAMARCK, 1811)

(= *Mitra cremans* REEVE, 1845)

Honō-no-otome

- Type locality: 'habite l'Océan Indien'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, Indo-western Pacific.
- Habitat: intertidal to 20 m., rubble.
- Original genus: *Mitra*.

G3377 *V. (P.) crocatum* (LAMARCK, 1811)

(= *Mitra concinna*, *cumingi*, *flavescens*, *pyramidalis*, all REEVE, 1844; *M. imitatrix* DAUTZENBERG & BOUGE, 1923)

Safuran-otome (= Shirofu-kabasuji-otome)

- Type locality: Pacific Ocean.
- Distribution: Kii peninsula (KOYAMA, 1995) and southwards, P5, ECP4-ECP2, P2; Philippines, Australia, Indo-western Pacific.
- Habitat: intertidal, sand and coral reefs.
- Original genus: *Mitra*.

G3378 *V. (P.) venustulum* (REEVE, 1844 in 1843-65)

Kabasuji-otome

- Type locality: 'Island of Masbate, Philippines (found under stones at low water)'.
- Distribution: Kii peninsula (KOYAMA, 1995) and southwards, P5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Mitra*.

G3379 *V. (P.) aureolineatum* TURNER, 1988

(= *V. (P.) unifascialis sensu* KAY, 1979; PECHAR, PRIOR & PARKINSON, 1980)

Cha-suji-tsukushi

- Type locality: Panglao island, Bohol, Philippines; 'deep water'.
- Distribution: Amami Ōshima (Naze, by sand pump), P2; Philippines, Australia, Red Sea to Hawaii, Polynesia.

- Habitat: intertidal to 20 m., sand.

G3380 *V. (P.) sagamiense* (KURODA & HABE in KURODA *et al.*, 1971)

Sagami-tsukushi

- Type locality: Sagami bay, central Honshū.
- Distribution: off Chōshi (Chiba prefecture, central Honshū), Sagami bay, Suruga bay, off Izu islands (Kurose), Kii peninsula (off Cape Shio, 250 m. KOYAMA, 1995).
- Habitat: 100-175 m., coarse sand and stones.
- Original genus: *Pusia*.

G3381 *V. (P.) aemula* (E. A. SMITH, 1879)

(= *Mitra (Costellaria) vanattai* PILSBRY, 1901)

Shii-no-mi-tsukushi

- Type locality: Gotō islands (off western Kyūshū): 32° 49' N., 128° 54' E.
- Distribution: northeastern Honshū (Iwate prefecture), P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5.
- Habitat: intertidal to 20 m., rubble.
- Original genus: *Mitra*.

G3382 *V. (P.) interruptum* (ANTON, 1838)

(= *Mitra cimelium* REEVE, 1845; *M. nodulosa* PEASE, 1868)

Shibori-otome

- Type locality: none designated.
- Distribution: Ogasawara islands (FUKUDA, 1994), Kii peninsula (Cape Shio KOYAMA, 1995), Okinawa islands and southwards, P2; Philippines to Hawaii, Tuamotu archipelago.
- Habitat: intertidal on coral reefs.
- Original genus: *Mitra*.

G3383 *V. (P.) semicostatum* (ANTON, 1838)

Shirakumo-otome (= Shiraboshi-tsukushi)

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2; Philippines, Indo-Pacific.
- Habitat: intertidal to 20 m., rubble.
- Original genus: *Mitra*.

G3384 *V. (P.) festum* (REEVE, 1845 in 1843-65)

(= *Pusia bancalanensis* BARTSCH, 1918)

Hareyaka-otome

- Type locality: 'Puerto Galero, Island of Mindoro, Philippines (found under stones at low water)'.
- Distribution: Kii peninsula (Cape Shio KOYAMA, 1995), Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indonesia to Fiji.
- Habitat: subtidal to 70 m., rubble.
- Original genus: *Mitra*.

G3385 *V. (P.) ficulinum* (LAMARCK, 1811)

(= *Mitra forticostata* REEVE, 1845 in 1843-65)

Shiwa-tetsu-yatate

- Type locality: Pacific Ocean.

• Distribution: Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; Philippines to Solomon islands.

- Habitat: intertidal to 20 m., coarse sand and stones.

- Original genus: *Mitra*.

G3386 *V. (P.) bernhardina* RÖDING, 1798

(= *Mitra muriculata* LAMARCK, 1811; *V. stefaninii*

NARDINI, 1934)

Kamuri-otome

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to 20 m., rocks.

G3387 *V. (P.) paligerum* (SOWERBY II, 1874 in 1842-87)

- Type locality: none designated.

• Distribution: Okinawa and southwards, P2 (KURODA & HABE, 1952-a).

- Original genus: *Mitra*.

G3388 *V. (P.) moelleri* (KÜSTER, 1840 in 1839-45)

(= *Turricula flammulata* PEASE, 1868; *Mitra zebрина*

GARRETT, 1873; *M. baldwinii* MELVILL, 1899)

Hoshiyama-otome

- Type locality: none designated.
- Distribution: Ogasawara islands (FUKUDA, 1994), Okinawa islands and southwards, ECP2, P2; Philippines to Hawaii, Micronesia and Polynesia.
- Habitat: subtidal in sand on coral reefs.
- Original genus: *Mitra*.

G3389 *V. (P.) turben* (REEVE, 1844 in 1843-65)

(= *Mitra kanaka* PILSBRY, 1921)

Itomaki-fude

- Type locality: 'Philippine Islands (found under stones at low water)'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Mauritius to Hawaii, Polynesia.
- Habitat: intertidal to 20 m., rubble.
- Original genus: *Mitra*.

G3390 *V. (P.) millicostatum* (BRODERIP, 1836-b)

(= *Mitra antonii* KÜSTER, 1839; *M. adamsoni* REEVE,

1844; *M. crocea* REEVE, 1845; *M. evelynae* MELVILL,

1895)

Nishiki-fude (= Nishiki-otome)

- Type locality: 'ad Insulam Annaan. Found on the reefs in shallow water'. (Annaa island, Tuamotu Archipelago).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, Indo-western Pacific to Melanesia.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Tiara*.

G3391 *V. (P.) multitriangulum* SALISBURY & CALLOMON, 1998

Noda-otome

- Type locality: off Seragaki, Okinawa; 40 m., in sand amongst rubble.
- Distribution: Kii peninsula (off Gobō, Wakayama prefecture), Okinawa (Seragaki); Philippines (Bohol).
- Habitat: 40-150 m., sand and rubble.

□ Genus *Thala* H. & A. ADAMS, 1853 in 1853-58

Type species: *Mitra mirifica* REEVE, 1845

(= *Micromitra* BELLARDI, 1888 non MEEK, 1873; *Mitromica* BERRY, 1958)

G3392 *T. mirifica* (REEVE, 1845 in 1843-65)

(= *Mitra recurva* REEVE, 1845; *Turricula roseata* A. ADAMS, 1855; *M. angiostroma* PEASE, 1868; *M. exquisita fusus* SOUVERBIE, 1876; *M. puncticulata* SOUVERBIE, 1876)

Beni-nomi-fude

- Type locality: 'Island of Capul, Philippines (found under stones at low water)'.
- Distribution: southern Ōsaka bay, Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Mauritius to Tuamoto archipelago.
- Habitat: subtidal to 20 m., sand.
- Original genus: *Mitra*.

G3393 *T. exilis* (REEVE, 1845 in 1843-65)

(= *Mitra adumbrata* SOUVERBIE, 1876; *T. ceylanica* PRESTON, 1904)

Sumire-nomi-fude

- Type locality: 'Island of Ticao, Philippines (found under stones at low water)'.
- Distribution: Kii peninsula (Cape Shio KOYAMA, 1995), Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, China Sea, Sri Lanka to Hawaii.
- Habitat: low water to 80 m., sand.
- Original genus: *Mitra*.

G3394 *T. todilla* (MIGHELS, 1845)

(= *Mitra secalina* GOULD, 1860)

Yume-nomi-fude (= Ko-tsubu-nomi-fude)

- Type locality: Hawaiian islands.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, Hawaii.
- Habitat: intertidal, sand.
- Original genus: *Pleurotoma*.

G3395 *T. ogasawarana* PILSBRY, 1904

Nomi-fude (= Ogasawara-nomi-fude)

- Type locality: 'China Seas'.
- Distribution: Ogasawara islands and southwards, P6-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2; tropical Indo-Pacific.

- Habitat: intertidal to 10 m., rocks.

- Original genus: *Mitra*.

G3396 *T. maxmarrowi* CERNOHORSKY, 1980

- Type locality: Seragaki, Okinawa.

- Distribution: Okinawa.

□ Genus *Zierliana* GRAY, 1847

Type species: *Voluta ziervogelii* GMELIN, 1791

(= *Zierliana* DESHAYES, 1865 *nom. null.*; *Zierlina* GARRETT, 1880 *nom. null.*; *Ziervogelia* FISCHER, 1884; *Ziervoglia* COSSMANN, 1899 *nom. null.*; *Ziervogeliana* WENZ, 1943)

G3397 *Z. ziervogelii* (GMELIN, 1791)

(= *Mitra ziervogeliana* LAMARCK, 1811; *M. strombiforme* BURROWS, 1815)

Tetsu-yatate

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines to Tonga.
- Habitat: intertidal to 20 m., on coral reefs and under volcanic rocks.
- Original genus: *Voluta*.

**Notes:** originally spelt *ziervoyelii* and cited as such by KURODA & HABE (1952-a).

G3398 *Z. woldemarii solidula* (REEVE, 1844 in 1843-65)

(= *Mitra robusta* REEVE, 1844; *M. choava* REEVE, 1844; *M. aethiops* REEVE, 1845; *M. creniplicata* A. ADAMS, 1853; *Z. waldemari sensu* KURODA, 1928)

Hime-tetsu-yatate

- Type locality: 'Islands of Corrigidor, Bay of Manila (found under stones at low water)' (Philippines).
- Distribution: Kii peninsula (KOYAMA, 1995) and southwards, P5, ECP4-ECP2, P2; Philippines, western Pacific.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Mitra*.

G3399 *Z. oleacea* (REEVE, 1844 in 1843-65)

(= *Mitra nigra* QUOY & GAIMARD, 1833 *non* GMELIN, 1791; *M. quoyi* DESHAYES & EDWARDS, 1844; *V. woldemarii robustum sensu* KURODA & HABE, 1952-a; *Z. woldemarii robustum sensu* KURODA, 1960)

Harabuto-tetsu-yatate

- Type locality: none designated.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, Indonesia to Solomon islands.
- Habitat: intertidal on coral reefs.
- Original genus: *Mitra*.

Superfamily CANCELLARIOIDEA FORBES & HANLEY, 1851

(Refs.: Petit & Harasewych, 1990)

Family CANCELLARIIDAE FORBES & HANLEY,

**1851**

(Refs.: Petit, 1974)

Subfamily **CANCELLARIINAE FORBES & HANLEY,**

**1851**

□ Genus *Cancellaria* **LAMARCK, 1799**

Type species: *Voluta reticulata* LINNAEUS, 1767 (mt.)

(= *Plicaria* FABRICIUS, 1823)

**Notes:** *Cancellaria murayamai* YOKOYAMA, 1926 (Type locality: Atsumi peninsula, Mikawa, Aichi prefecture - fossil) was recorded as Recent from 'Pacific coast, 39° N.' (KURODA & HABA, 1952-a); the present authors have been unable to confirm Recent distribution or determine subgeneric placement for this species.

Subgenus *Merica* **H. & A. ADAMS, 1854 in 1853-58**

Type species: *Cancellaria melanostoma* SOWERBY II,

1849 (s. d. COSSMANN, 1899)

(= *Contortio* SACCO, 1894; *Nevia* JOUSSEAUME, 1887)

G3400 *C. (M.) asperella* (**LAMARCK, 1822 in 1815-22**)

(= *Cancellaria elegans* SOWERBY, 1822; *C. aspercilla* BORY St. VINCENT, 1827; *Ricinula reeveana* CROSSE, 1862; *C. reeveana laticosta* LÖBBECKE & KOBELT, 1886)

Kongō-bora

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Ōsaka bay (OKAMURA & KOJIMA, 1984), Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2, P2; Philippines.
- Habitat: 10-50 m., fine sand.
- Original genus: *Cancellaria*.

□ Genus *Momoebora* **KURODA & HABA in KURODA et al., 1971**

Type species: *Cancellaria sinensis* REEVE, 1856 (o. d.)

G3401 *M. sinensis* (**REEVE, 1856 in 1843-65**)

(= *Cancellaria subsinensis* LÖBBECKE, 1887; *C. asprella sensu* IWAKAWA, 1919; *M. asprella sensu* HABA, 1961; KIRA, 1962)

Momoe-bora

- Type locality: 'China'.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2; east Asia.
- Habitat: 10-50 m., mud.
- Original genus: *Cancellaria*.

G3402 *M. oblonga* (**SOWERBY I, 1825**)

(= *Cancellaria bifasciata* DESHAYES, 1830; *C. pristina* YOKOYAMA, 1923; *M. bifasciata* DESHAYES *sensu* HABA, 1961)

Hoso-momoe-bora

- Type locality: none designated; 'Straits of Macassar' given

in SOWERBY II (1849 in 1842-87) p. 447.

- Distribution: P2; Taiwan and southwards, Philippines, Indo-Pacific. 'Japan to Indonesia; northern Indian Ocean to Aden; Eastern South Africa (?)' (VERHECKEN, 1997).
- Habitat: 10-30 m., sandy mud.
- Original genus: *Cancellaria*.

□ Genus *Sydaphera* **IREDALE, 1929**

Type species: *Sydaphera renovata* IREDALE, 1929 (o. d.)

G3403 *S. spengleriana* (**DESHAYES, 1830 in 1830-32**)

(= *Cancellaria tritonis* SOWERBY, 1832; *C. undulata* SOWERBY, 1849)

Koromo-gai

- Type locality: Philippines.
- Distribution: southern Hokkaidō and southwards, P10-P5, (Ōsaka bay OKAMURA & KOJIMA, 1984), Japan Sea (Oga peninsula, J3-J1), EC5; Korea, China, Indo-Pacific.
- Habitat: 10-50 m., sandy mud.

□ Genus *Habesolatia* **KURODA, 1965-a**

Type species: *Cancellaria nodulifera* SOWERBY I, 1825 (o. d.)

G3404 *H. nodulifera* (**SOWERBY I, 1825**)

Tokashi-ori-ire

- Type locality: none designated.
- Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay) and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1); Korea, East China Sea.
- Habitat: 20-50 m., sandy mud.
- Original genus: *Cancellaria*.

□ Genus *Nipponaphera* **HABA, 1961-a**

Type species: *Nipponaphera habei* PETIT, 1972 (ICZN op. 1052)

(Refs.: Petit, 1972)

G3405 *N. habei* **PETIT, 1972**

(= *N. lyrata* ADAMS & REEVE *sensu* HABA, 1961-a; *N. funiculata* HINDS *sensu* HABA, 1961-e)

Asa-goromo (= Hishi-ori-ire-bora)

- Type locality: Kōchi prefecture, southern Shikoku (Tosa bay).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2, P2.
- Habitat: 50-100 m., sandy mud.

G3406 *N. semipellucida* (**ADAMS & REEVE, 1850 in 1848-50**)

(= *Admete hukuiensis* NOMURA & NIINO, 1940)

Oboro-ori-ire-bora

- Type locality: 'Sooloo' (Sulu sea, Philippines).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2;

Philippines.

- Habitat: 50-150 m., sandy mud.

G3407 *N. iwaotakii* **HABE, 1961-e**

Iwao-ori-ire-bora

- Type locality: off Kōchi prefecture, southern Shikoku; ± 100 m.
- Distribution: Tosa bay.
- Habitat: 100-150 m., sandy mud.

□ Genus *Solutosveltia* **HABE, 1961-e**

Type species: *Solutosveltia abyssicola* HABE, 1961 (mt.)

G3408 *S. abyssicola* **HABE, 1961-e**

Urashima-koromo-gai

- Type locality: off Kōchi prefecture, southern Shikoku; ± 150 m.
- Distribution: Tosa bay (southern Shikoku), Japan Sea (southwest off Sado island; Noto peninsula; Wakasa bay).
- Habitat: 50-150 m., sandy mud.

□ Genus *Trigonostoma* **BLAINVILLE, 1827**

Type species: *Delphinula trigonostoma* LAMARCK, 1822 (mt.; = *Buccinum scalare* GMELIN, 1791)

(= *Trigona* PERRY, 1811 non JURIN, 1807)

(Refs.: Petit & Harasewych, 1987)

G3409 *T. scalare* **(GMELIN, 1791)**

(= *Trigona pellucida* PERRY, 1811; *Delphinula trigonostoma* LAMARCK, 1822 in 1815-22; *Cancellaria trigonostoma sensu* DESHAYES, 1830; SOWERBY, 1833; KIENER, 1841; SOWERBY, 1849; REEVE, 1856; TRYON, 1885; LÖBBECKE, 1886; *Trigonostoma trigonostoma sensu* CHENU, 1859; KIRTISINGHE, 1978; OKUTANI, 1983; *T. antiquata* HINDS *sensu* GARRARD, 1975; *T. pellucida sensu* SPRINGSTEEN & LEOBRERA, 1986)

Rasen-ori-ire-bora

- Type locality: none designated.
- Distribution: Kii peninsula (KOYAMA, 1994-a), Senkaku islands and southwards, P2; Philippines, 'southeast to northeast Australia' (PETIT & HARASEWYCH, 1987).
- Habitat: 10-50 m., sand.
- Original genus: *Buccinum*.

G3410 *T. thysthlon* **PETIT & HARASEWYCH, 1987**

(= *T. antiquata auct. non* HINDS, 1843)

Itokake-ori-ire-bora

- Type locality: off Wasir island, West Wokam, Moluccas (Maluku, Indonesia); 56-73 m.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Indonesia.
- Habitat: 100-200 m., sand.

**Notes:** *T. antiquata* HINDS, 1843 does not occur in Japan or the Philippines. See PETIT & HARASEWYCH (1987).

G3411 *T. tenuis* **(A. ADAMS, 1855-o)**

Usu-ori-ire-bora

- Type locality: 'China Seas'.
- Distribution: Kii peninsula and westwards, Tosa bay, western Kyūshū, East China Sea.
- Habitat: 100-200 m., sand.
- Original genus: *Cancellaria*.

□ Genus *Scalptia* **JOUSSEAUME, 1887**

Type species: *Cancellaria obliquata* LAMARCK, 1822 (o. d.)

(= *Trigonaphera* IREDALE, 1936)

Subgenus *Scalptia s. str.*

G3412 *S. (S.) obliquata* **(LAMARCK, 1822 in 1815-22)**

(= *Cancellaphera amasia* IREDALE, 1930)

Tategoto-ori-ire-bora

- Type locality: none designated.
- Distribution: Enshū-nada (off Shizuoka prefecture), Okinawa islands and southwards, ECP2, P2; Philippines, Australia to New Hebrides, Indo-Pacific.
- Habitat: 10-50 m., sand.
- Original genus: *Cancellaria*.

G3413 *S. (S.) crenifera* **(SOWERBY I, 1833 in 1832-41)**

(= *Cancellaria lamellosa* HINDS, 1843; *C. taiwanensis* NOMURA, 1933)

Heso-aki-ori-ire-bora

- Type locality: 'Ceylon' in original description; 'Philippines' added to original display board with probable syntypes in BMNH.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2, P2; Philippines, Australia.
- Habitat: 10-50 m., fine sand.
- Original genus: *Cancellaria*.

G3414 *S. (S.) verrauxi* **(KIENER, 1841 in 1834-80)**

(= *Trigonostoma rougeyroni* (SOUVERBIE) *sensu* KURODA & HABE, 1952-a; KURODA, 1960)

Sugitani-ori-ire-bora

- Type locality: none designated.
- Distribution: Okinawa islands and southwards, P2; Philippines.
- Habitat: 10-50 m., sand.

G3415 *S. (S.) scalariformis* **(LAMARCK, 1822 in 1815-22)**

(= *Cancellaria costifera* SOWERBY I, 1833 in 1832-41; *C. nitida* REEVE, 1856; *C. mangelioides* REEVE, 1856; *C. bocageana* CROSSE & DEBEAUX, 1863; *C. souverbiei* CROSSE, 1868)

Ori-ire-bora

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto

inland sea, Japan Sea (J1), northwestern Kyūshū, EC5, Ariake inland sea, East China Sea; Korea, China.

- Habitat: inner bay, 10-50 m., mud.
- Original genus: *Cancellaria*.

G3416 *S. (S.) amakusana* **PETIT, 1974**

(= *Trigonaphera costifera sensu* HABE, 1961 non SOWERBY I, 1833 in 1832-41)

Hoso-ori-ire-bora

- Type locality: off Tomioka, Amakusa, southwestern Kyūshū; and Seto inland sea, 10-30 m.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, northwestern Kyūshū.
- Habitat: 10-50 m., sandy mud.

G3417 *S. (S.) stenophala* **(HABE, 1961-e)**

Heso-aki-hoso-ori-ire-bora

- Type locality: (Enshū-nada) off Isshiki, Aichi prefecture, central Honshū.
- Distribution: Enshū-nada and westwards, Kii peninsula, P6-P5, northwestern Kyūshū.
- Habitat: 10-50 m., sandy mud.
- Original genus: *Trigonaphera*.

G3418 *S. (S.) scalarina* **(LAMARCK, 1822 in 1815-22)**

(= *Cancellaria crenifera* SOWERBY, 1832; *C.*

*thomasiana* CROSSE, 1862)

Niyori-ori-ire-bora

- Type locality: 'les mers de l'Île de France' (Mauritius, Indian Ocean).
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, Australia, Indo-Pacific.
- Habitat: 10-50 m., sand.

G3419 *S. (S.) contabulata* **(SOWERBY I, 1833 in 1832-41)**

(= *Cancellaria montrouzieri* SOUVERBIE, 1872)

Tōdaka-ori-ire-bora

- Type locality: 'Ceylon' (Sri Lanka).
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, Indo-Pacific.
- Habitat: subtidal to 10 m., sand.
- Original genus: *Cancellaria*.

G3420 *S. (S.) textilis* **(KIENER, 1841 in 1834-80)**

(= *Cancellaria textilia sensu* SHIKAMA & HORIKOSHI, 1963; *Trigonaphera textilia sensu* ŌYAMA, 1963)

Ebi-cha-ori-ire-bora (= Koge-ori-ire-bora)

- Type locality: 'les mers des Moluques' (Moluccas (Maluku), Indonesia).
- Distribution: P2; Taiwan and southwards, Philippines, Australia, Indo-Pacific.
- Habitat: subtidal to 30 m., sand.

G3421 *S. (S.) bicolor* **(HINDS, 1843)**

(= *Trigonostoma septemcostata* ODHNER, 1917; *T.*

*interlaevis* LASERON, 1955)

Somewake-ori-ire-bora

- Type locality: Philippines: 'Corregidor' in original description, 'Samar' on labels with probable syntypes in BMNH.
- Distribution: Ogasawara islands (FUKUDA, 1995), Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
- Habitat: subtidal to 10 m., sand.
- Original genus: *Cancellaria*.

G3422 *S. (S.) tosaensis* **(HABE, 1961-a)**

Hana-kago-ori-ire-bora

- Type locality: Tosa bay, off Kōchi prefecture, southern Shikoku.
- Distribution: Tosa bay and westwards, western Kyūshū.
- Habitat: 50-200 m., sandy mud.
- Original genus: *Trigonaphera*.

G3423 *S. (S.) teramachii* **(HABE, 1961-a)**

Chirimen-ori-ire-bora

- Type locality: off Cape Ashizuri, southwestern Shikoku; ± 100 m.
- Distribution: Izu islands (Hyōtan-se; Zenisu), Kumano-nada, Kii strait off Wakayama prefecture, Tosa bay.
- Habitat: 30-140 m., sand.
- Original genus: *Trigonaphera*.

□ Genus *Inglisella* **FINLAY, 1924**

Type species: *Ptychotractus pukeiensis* SUTER, 1917

(= *Microsveltia* IREDALE, 1925)

G3424 *I. fischeri* **(A. ADAMS, 1860-c)**

Isaga-kongō-bora (= Kobito-koromo-gai)

- Type locality: Korea strait, 63 fms.
- Distribution: Japan Sea (off Mishima), Korea strait; Korea, Pratas islands (South China Sea), Philippines, Borneo, southern & western Australia (VERHECKEN, 1997).
- Original genus: *Cancellaria* (*Merica*).
- Notes:** the type material of this species cannot be adequately determined at present (VERHECKEN, 1997).

Subfamily **ADMETINAE TROSCHEL, 1866**

□ Genus *Admete* **KROYER in MÖLLER, 1842**

Type species: *Admete crispa* MÖLLER, 1842

G3425 *A. couthouyi* **(JAY, 1839)**

(= *Cancellaria buccinoides* COUTHOUY 1838 non SOWERBY I, 1832; *C. arctica* MIDDENDORFF, 1849; *A. couthouyi* (*sic*) sensu HABE, 1961)

Ezo-goromo

- Type locality: Massachusetts bay (northeastern USA).
- Distribution: Sagami bay (1310-1480 m. OKUTANI, 1964-b; 1966; 1968), northeastern Honshū (Fukushima prefecture) and northwards, P8-P10, Japan Sea (off Tajima,



Hyōgo prefecture K. ITŌ, 1967; J2-J6), Hokkaidō, OP, Kuril islands; Bering Sea, Okhotsk Sea.

- Habitat: 50-300 m., sandy mud.
- Original genus: *Cancellaria*.

G3426 *A. watanabei* SHIKAMA, 1962-a

Hime-usu-kawa-goromo

- Type locality: 'probably east of Chōshi, above 100 f.' (Chiba prefecture, central Honshū).
- Distribution: central Honshū (Sagami bay, 550 m.; Kashima-nada, 870 m. OKUTANI, 1964-b), off Chōshi and northwards, northeastern Honshū (Iwate prefecture), P8-P10.
- Habitat: 100-800 m., mud.

G3427 *A. ovata* E. A. SMITH, 1885

- Type locality: off eastern Hokkaidō: 42° 52' N., 144° 40' E., 48 fms, sand and mud.
- Distribution: Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967), type locality.
- Habitat: 200-800 m., sandy mud.

G3428 *A. globularis* E. A. SMITH, 1875

Maru-ezo-goromo

- Type locality: off eastern Hokkaidō: 42° 52' N., 144° 40' E., 48 fms.
- Distribution: central Honshū (Sagami bay, 620-780 m. & 1400 m.; Enshū-nada, 620 m. OKUTANI, 1964-b), eastern Hokkaidō.
- Habitat: 200-1000 m., sandy mud.

G3429 *A. choshiensis* SHIKAMA, 1962-a

(= *A. choshiensis* SHIKAMA, MS *sensu* HABE, 1961 *nom. nud.*)

Chōshi-goromo

- Type locality: 'Southeast of Chōshi' (Chiba prefecture, central Honshū), 250-260 fms.
- Distribution: recorded only from type locality.

G3430 *A. tabatai* (YOKOYAMA, 1926)

- Type locality: Sado Island, Japan Sea (fossil).
- Distribution: 'Japan Sea, 37° N.' (KURODA & HABE, 1952-a).

□ Genus *Admetula* COSSMANN, 1889

Type species: *Buccinum evulsa* SOLANDER, 1766 (o. d.)

G3431 *Admetula garrardi* PETIT, 1974

(= *Cancellaria nassoides* SCHEPMAN, 1911 in 1908-13 *non* KOENEN, 1889)

Birōdo-koromo-gai

- Type locality: R. V. 'Siboga' sta. 256, near Kai islands, Indonesia: 05° 26.6' S., 132° 32.5' E., 397 m.
- Distribution: Enshū-nada and southwards, P6-P5, Japan Sea (Sado island, J3-J1); Indonesia, Australia (VERHECKEN, 1997).

- Habitat: 50-300 m.

□ Genus *Neadmete* HABE, 1961-a

Type species: *Neadmete okutanii* PETIT, 1974 (ICZN op. 1370)

G3432 *N. okutanii* PETIT, 1974

(= *N. japonica sensu* HABE, 1961; HABE, 1964; KURODA *et al.*, 1971)

Nippon-koromo-gai

- Type locality: off Kōchi prefecture, southern Shikoku; 100-200 m.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, Japan Sea (Wakasa bay, J2-J1), EC5.
- Habitat: 100-200 m., sandy mud.

G3233 *N. japonica* (E. A. SMITH, 1879-b)

(= *Cancellaria lischkei* YOKOYAMA, 1922)

Yamato-koromo-gai

- Type locality: off Gotō islands, western Kyūshū: 33° 19' N., 129° 7' E., 50 fms.
- Distribution: recorded only from type locality.
- Original genus: *Cancellaria*.

G3434 *N. nakayamai* HABE, 1961-a

Hina-koromo-gai

- Type locality: off Cape Ashizuri, southwestern Shikoku; 100-200 m.
- Distribution: Tosa bay, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967).
- Habitat: 100-200 m., sandy mud.

G3435 *N. cancellata* (KOBELT, 1887)

(= *N. sagamiensis* KURODA & HABE in KURODA *et al.*, 1971)

Kobito-koromo-gai

- Type locality: '*litora Japoniae*' (coasts of Japan).
- Distribution: Sagami bay, Suruga bay, Tosa bay.
- Habitat: 50-200 m., sand.
- Original genus: *Admete*.

G3436 *N. profundicola* OKUTANI, 1964-b

- Type locality: 'Sōyō-Maru' sta. 59, Sagami bay, central Honshū: 35° 05.35' N., 131° 18.65' E., 550 m.
- Distribution: Sagami bay (1470-1500 m. OKUTANI, 1966; type locality).

□ Genus *Paladmete* GARDNER, 1916

Type species: *Trichotropis cancellaria* CONRAD, 1858 (o. d.)

(= *Palaeadmete* GARDNER *sensu* OKUTANI, 1964-b *err. pro Palad-*)

G3437 *P. bathyalis* OKUTANI, 1964-b

- Type locality: 'Sōyō-Maru' sta. 59, Sagami bay, central Honshū: 35° 05.3' N., 139° 18.65' E., 550 m.

- Distribution: recorded only from type locality.

Subfamily **PLESIOTRITONINAE BEU & MAXWELL, 1987**

□ Genus ***Fusiaphera* HABE, 1961-a**

Type species: *Cancellaria macrospira* ADAMS & REEVE, 1850 (o. d.)

G3438 ***F. macrospira* (ADAMS & REEVE, 1850 in 1848-50)**

Moshiki-tōgata-momoe-bora

- Type locality: 'Borneo'.
- Distribution: Bōsō peninsula and southwards, Enshū-nada, Tosa bay, western Kyūshū, East China Sea; western Pacific, Indonesia, Australia.
- Habitat: 50-100 m., fine sand.
- Original genus: *Cancellaria*.

G3439 ***F. macrospiratoides* HABE, 1961-e**

( = *F. macrospira* ADAMS & REEVE *sensu* HABE, 1960-a; *F. macrospira sensu* SAKURAI, 1986)

Tōgata-momoe-bora

- Type locality: Enshū-nada off Isshiki, Aichi prefecture, central Honshū; 50-200 m.
- Distribution: Enshū-nada and southwards, P6-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5.
- Habitat: 50-200 m., fine sand.

G3440 ***F. azumai* HABE in KIRA, 1959-a**

Azuma-momoe-bora

- Type locality: Enshū-nada off Isshiki, Aichi prefecture, central Honshū; 60-80 m.
- Distribution: Tateyama bay (Bōsō peninsula TAMURA & OKUTANI, 1989) and southwards, P6-P5, EC5.
- Habitat: 50-150 m., sand.

G3441 ***F. tosaensis* HABE, 1961-a**

Tosa-tōgata-momoe-bora

- Type locality: off Kōchi prefecture, southern Shikoku, ± 100 m.
- Distribution: Tosa bay (southern Shikoku), Japan Sea (Wakasa bay).
- Habitat: 80-150 m., sand.

□ Genus ***Tritonoharpa* DALL, 1908**

Type species: *Tritonoharpa vexillata* DALL, 1908 (o. d.)

G3442 ***T. antiqatus* (REEVE, 1844 in 1843-65)**

( = *Triton crenulatus* CARPENTER, 1865 *nom. nud.*)

Himokake-shirikire-bora

- Type locality: New Ireland (Papua New Guinea), on coarse sand on the shore.
- Distribution: western Kyūshū (off Ushibuka) and southwards, EC5, ECP4-ECP2; tropical Pacific, Australia.
- Habitat: subtidal to 200 m., rocks.
- Original genus: *Triton*.

**Notes:** see PETIT & HARASEWYCH (1990: 2).

Superfamily **CONOIDEA RAFINESQUE, 1815**

(Refs.: Taylor, Kantor & Sysoev, 1993)

Family **DRILLIDAE OLSSON, 1964**

□ Genus ***Brachytoma* SWAINSON, 1840**

Type species: *Pleurotoma strombiformis* SOWERBY, 1839 (s. d. HERRMANNSEN, 1846; = *Pleurotoma stromboides* SOWERBY, 1832)

G3443 ***B. varicosa* (REEVE, 1843 in 1843-65)**

Une-kuchikire (= Une-momiji-bora)

- Type locality: Calapan, island of Mindoro, Philippines; 6 fms., in coarse sand.
- Distribution: Kii peninsula and southwards, P5, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5, ECP4-ECP2, P2; Philippines, tropical Pacific.
- Habitat: intertidal to 50 m., sand.
- Original genus: *Pleurotoma*.

G3444 ***B. tuberosa* (E. A. SMITH, 1875)**

Unedaka-momiji-bora (= Tō-une-momiji-bora; Onedaka-momiji-bora)

- Type locality: 'Ōshima harbour, 8 fms; Matzoa harbour (Okinawa), 6 fms., and Goza harbour, 6 fms'.
- Distribution: Kii peninsula and southwards, P5, Japan Sea (northern Niigata prefecture, J3-J1), EC5, ECP4-ECP3.
- Habitat: 10-100 m., fine sand, sandy mud, coarse sand and stones.
- Original genus: '*Pleurotoma* (-?)'.

□ Genus ***Tyloitiella* HABE, 1958-h**

Type species: *Drillia subobliquata* E. A. SMITH, 1879 (o. d.)

G3445 ***T. subobliquata* (E. A. SMITH, 1879-b)**

Kuri-iro-umi-kudamaki

- Type locality: east of Gotō islands, off western Kyūshū: 33° 15' N., 129° 18' E., 40 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2; Philippines.
- Habitat: subtidal to 80 m., sand.
- Original genus: *Drillia*.

G3446 ***T. obliquata* (REEVE, 1845 in 1843-65)**

Umi-kudamaki

- Type locality: none designated ('Singapore, 7 fath., fine sand' on original label with syntypes in BMNH).
- Distribution: Kii peninsula and southwards, P5, EC5.
- Habitat: 5-50 m., sand.
- Original genus: *Pleurotoma*.

G3447 ***T. humilis* (E. A. SMITH, 1879-b)**

Hime-umi-kudamaki (= Ko-shajiku; Hiku-momiji-bora)

- Type locality: Ojica bay, Gotō islands, off western

Kyūshū: 33° 12.5' N., 129° 05' E., 10 fms.

- Distribution: Ogasawara islands (FUKUDA, 1994), Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5.
- Habitat: 5-40 m., sand.
- Original genus: *Drillia*.

G3448 *T. japonica* (LISCHKE, 1869 in 1868-73)

Ohaguro-shajiku

- Type locality: 'Nagasaki' (western Kyūshū).
- Distribution: southwestern Hokkaidō and southwards, P10-P5, Japan Sea (J4-J1), EC5; Korea (Kijung).
- Habitat: subtidal to 50 m., fine sand.
- Original genus: *Drillia*.

G3449 *T. rutteni* (OOSTINGH, 1938)

(= *Clavus megapica* KURODA MS auct., nom. nud.)

Satsuma-kasasagi-kudamaki (= Narihira-kudamaki)

- Type locality: Sarongge-Kerta, Sumatra, Indonesia (fossil).
- Distribution: Mie prefecture (Wagu, 50 m. MATSUMOTO, 1979), Kii peninsula, P5, EC5, ECP4-ECP3.
- Habitat: intertidal to 20 m., sand.

□ Genus *Clavus* MONTFORT, 1810 in 1808-10

Type species: *Clavus flammulatus* MONTFORT, 1810 (o. d.)

(= *Clavicantha* SWAINSON, 1840; *Tylotia* MELVILL, 1917; *Eldridgea* BARTSCH, 1934)

Subgenus *Clavus s. str.*

G3450 *C. (C.) flammulatus* MONTFORT, 1810 in 1808-10

(= *Strombus lividus* LINNAEUS, 1758 nom. nud.; *C. echinata* LAMARCK, 1816)

Shimitsuki-tsuno-kudamaki

- Type locality: 'sur les côtes d'Afrique' (Africa).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., coarse sand and stones.

G3451 *C. (C.) canicularis* (RÖDING, 1798)

(= *Clavatula auriculifera* LAMARCK, 1816)

Aka-eri-tsuno-kudamaki (= Hire-tsuno-kudamaki)

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Indo-Pacific to Fiji.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Strombus*.

G3452 *C. (C.) exasperatus* (REEVE, 1845 in 1843-65)

(= *Pleurotoma exigua* REEVE sensu HOMBROUN & JAQUINOT, 1854; *C. canicularis sensu* KURODA, 1928; S. HIRASE, 1934)

Tsuno-kudamaki (= Indo-umi-kudamaki)

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Australia, Indo-western Pacific.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Pleurotoma*.

G3453 *C. (C.) unizonalis* (LAMARCK, 1822 in 1815-22)

Hito-suji-tsuno-kudamaki

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Australia, Indo-western Pacific.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Pleurotoma*.

G3454 *C. (C.) viduus* (REEVE, 1845 in 1843-65)

(= *Drillia vidualoides* GARRETT, 1873; *Pleurotoma nigrozonata* WEINKAUFF, 1876; *C. protentus* HERVIER, 1895)

Suso-murasaki-tsuno-kudamaki

- Type locality: Masbate, Philippines; under stones at low water.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
- Habitat: intertidal, coarse sand and stones.
- Original genus: *Pleurotoma*.

G3455 *C. (C.) opalus* (REEVE, 1845 in 1843-65)

(= *Pleurotoma ebur* REEVE, 1845)

Sobie-tsuno-kudamaki

- Type locality: 'Cagayan, Province of Misamis, Isle of Mindanao, Philippines'.
- Distribution: Miyako island (Okinawa prefecture) and southwards, P2; Philippines, tropical Indo-Pacific.
- Habitat: subtidal, sand.
- Original genus: *Pleurotoma*.

G3456 *C. (C.) laetus* HINDS, 1843-g

(= *Pleurotoma mariei* CROSSE, 1869; *C. fusconitens* SOWERBY III, 1901)

Kadobari-tsuno-kudamaki

- Type locality: 'New Guinea; Straits of Macassar. From seven to ten fathoms'.
- Distribution: Yaeyama islands and southwards, P2; Philippines, tropical Indo-Pacific.
- Habitat: subtidal, sand.
- Original genus: *Clavatula*.

G3457 *C. (C.) lamberti* (MONTROUZIER, 1860)

(= *Drillia lauta* PEASE, 1868)

Rengamaki-shajiku

- Type locality: New Caledonia.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., coarse sand and stones.

- Original genus: *Pleurotoma*.

G3458 *C. (C.) pica* (REEVE, 1843 in 1843-65)

Kasasagi-kudamaki

- Type locality: Island of Capul, Philippines.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, tropical Indo-Pacific.
- Habitat: subtidal to 30 m., coarse sand and stones.
- Original genus: *Pleurotoma*.

G3459 *C. (C.) exilis* (PEASE, 1868-a)

(= *Pleurotoma pusillus* GARRETT, 1873)

Nomi-kudamaki

- Type locality: 'Tahiti'.
- Distribution: Kii peninsula and southwards, P5, Japan Sea (J1), northwestern Kyūshū, EC5, ECP4-ECP2, P2; Indo-Pacific.
- Habitat: intertidal to 20 m., coarse sand and stones.

G3460 *C. (C.) candens* (E. A. SMITH, 1879)

- Type locality: Gotō islands (off western Kyūshū): 33° 19' N., 129° 7' E., 50 fms., and east of Gotō islands: 33° 15' N., 129° 18' E., 40 fms.
- Distribution: 'Pacific coast, 33°-35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Drillia*.

G3461 *C. (C.) intermaculatus* (E. A. SMITH, 1879)

- Type locality: 'Challenger' sta. 31: south of Korea, 34° 30' N., 125° 44' E., 20 fms.
- Distribution: 'Pacific coast, 33° N.' (KURODA & HABE, 1952-a); Korea.
- Original genus: *Drillia*.

Subgenus *Plagiostropha* MELVILL, 1927

Type species: *Plagiostropha quintuplex* MELVILL, 1927 (mt.)

G3462 *C. (P.) quintuplex* MELVILL, 1927

Hoshikuzu-hiroi

- Type locality: Bohol island, Philippines.
- Distribution: Kii peninsula (Cape Shio), Amami Ōshima (Tsuchihama); Philippines.

□ Genus *Neodrillia* BARTSCH, 1943

Type species: *Neodrillia cydia* BARTSCH, 1943

G3463 *N. enna* (DALL, 1918)

(= *Pleurotoma unifasciata* E. A. SMITH, 1888 non DESHAYES, 1833)

Enna-tsuno-kudamaki

- Type locality: 'Ceylon and China Sea'.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, southwestern Pacific.
- Habitat: intertidal to 30 m., coarse sand and stones.
- Original genus: *Pleurotoma*.

G3464 *N. regius* HABE & MURAKAMI, 1970-a

Yokozuna-umi-kudamaki

- Type locality: Okinawa.
- Distribution: recorded only from type locality.

□ Genus *Elaeocyma* DALL, 1918

Type species: *Drillia empyrosia* DALL, 1899 (o. d.)

G3465 *E. benten* (YOKOYAMA, 1920)

Benten-momiji-bora (= Benten-kudamaki)

- Type locality: Naganuma, Yokohama City (fossil).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Niigata prefecture, J3-J1), EC5, East China Sea.
- Habitat: 50-100 m., fine sand and mud.
- Original genus: *Pleurotoma* (*Drillia*).

G3466 *E. glabriuscula glabriuscula* (YOKOYAMA, 1922)

Migaki-hime-momiji-bora

- Type locality: Shitō, Ichihara City, Chiba prefecture, central Honshū (fossil).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5.
- Habitat: 50-100 m., sand.
- Original genus: *Drillia*.

G3467 *E. glabriuscula brevis* (YOKOYAMA, 1922)

Chibi-migaki-hime-momiji-bora

- Type locality: Shitō, Ichihara City, Chiba prefecture, central Honshū (fossil).
- Distribution: Bōsō peninsula and southwards, P7-P5, western Kyūshū.
- Habitat: 50-100 m., sand.
- Original genus: *Drillia*.

□ Genus *Splendrillia* HEDLEY, 1922

Type species: *Drillia woodsi* BEDDOME, 1883 (o. d.)

G3468 *S. braunsi* (YOKOYAMA, 1920)

Rindō-kudamaki (= Buraunsu-tsuno-kudamaki)

- Type locality: Koshiba, Yokohama City (fossil).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) to Enshū-nada (Aichi prefecture) 60-200 m., fine sand; Japan Sea (off central Niigata prefecture; off Sado id. and southwards to Tajima (Hyōgo prefecture) 50-300 m., mud.)
- Original genus: *Pleurotoma* (*Drillia*).

G3469 *S. sollicitata* (SOWERBY III, 1913-b)

Momo-iro-momiji-bora

- Type locality: 'Gotō, Japan' (Gotō islands, western Kyūshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, western Kyūshū; New Caledonia.
- Habitat: 60-200 m., sand.
- Original genus: *Drillia*.

G3470 *S. aomoriensis* (NOMURA & HATAI, 1940)

Goshiki-momiji-bora

- Type locality: Kyurokushima (island), off Aomori prefecture, northern Japan Sea.
- Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay TSUCHIDA, 1991) and southwards, P9-P7, off Shima (Mie prefecture), northern Japan Sea (off Aomori prefecture).
- Habitat: 60-200 m., coarse sand and stones.

G3471 *S. chinensis* (MACNEIL, 1960)

Hina-momiji-bora

- Type locality: Yoshitomi, Okinawa (fossil).
- Distribution: Sagami bay (KURODA *et al.*, 1971).
- Habitat: 50-200 m., sand.

G3472 *S. crassiplicata* (KURODA & ŌYAMA in KURODA *et al.*, 1971)

Futo-une-shajiku

- Type locality: Sagami bay, central Honshū.
- Distribution: Sagami bay.
- Habitat: 50-150 m., sand.
- Original genus: *Monilispira*.

□ Genus *Cymatosyrinx* DALL, 1889

Type species: *Pleurotoma lunata* LEA, 1843 (o. d.)

G3473 *C. impolita* KURODA & ŌYAMA in KURODA *et al.*, 1971

Tsuya-nashi-momiji-bora

- Type locality: Sagami bay, central Honshū.
- Distribution: off Chōshi (Chiba prefecture, central Honshū), Sagami bay (50-200 m., sand); western Kyūshū (off Koshiki islands, 320-380 m.)

G3474 *C. parvicata* (SOWERBY III, 1915)

Hime-momiji-bora (= Usu-iro-momiji-bora)

- Type locality: Nagasaki, western Kyūshū.
- Distribution: Sagami bay, southern Kyūshū (Kagoshima bay), western Kyūshū.
- Original genus: *Drillia*.

□ Genus *Horaiclavus* ŌYAMA, 1954

Type species: *Mangilia splendida* A. ADAMS, 1867 (o. d.)

Subgenus *Horaiclavus s. str.*

G3475 *H. (H.) splendidus* (A. ADAMS, 1867-a)

Tsuya-shajiku

- Type locality: 'Gotto Islands' (Gotō islands, western Kyūshū).
- Distribution: Sagami bay and southwards, P6-P5, Japan Sea (Wakasa bay, J2-J1), EC5; Philippines.
- Habitat: 50-200 m., sand.
- Original genus: *Mangilia*.

G3476 *H. (H.) shitoensis* ŌYAMA in Is. TAKI & ŌYAMA, 1954

(= *Mangilia ojiensis* YOKOYAMA, 1922 non TOKUNAGA, 1906)

Shitō-iguchi

- Type locality: Shitō, Ichihara City, Chiba prefecture, central Honshū (fossil).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, west off Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986), Bōsō peninsula (Tateyama bay), Tosa bay.
- Habitat: 60-200 m., sand.

Subgenus *Cytharoclavus* KURODA & ŌYAMA in KURODA *et al.*, 1971

Type species: *Pleurotoma (Mangilia) filicineta* E. A. SMITH, 1882 (o. d.)

G3477 *H. (C.) filicineta* (E. A. SMITH, 1882 in 1882-88)

(= *Lora suganumana* NOMURA & NIINO, 1940)

Hisago-shajiku

- Type locality: 'Japan' (coll. A. Adams).
- Distribution: west off Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986), Sagami bay and southwards, Izu islands, P6-P5, EC5.
- Habitat: 55-150 m., sand.
- Original genus: *Pleurotoma (Mangilia)*.

G3478 *H. (C.) stenocyma* KURODA & ŌYAMA in KURODA *et al.*, 1971

Nuri-tsuya-shajiku

- Type locality: Sagami bay, central Honshū.
- Distribution: off Chōshi (Chiba prefecture, central Honshū), Sagami bay, Tosa bay.
- Habitat: 50-200 m., sand.

Family TURRIDAE SWAINSON, 1840

(Refs.: Powell, 1942; 1960; Ōyama, 1953-a; Sysoev, 1993)

Subfamily TURRINAE SWAINSON, 1840

(Refs.: Powell, 1964; 1966; 1967)

□ Genus *Turridrupa* HEDLEY, 1922

Type species: *Pleurotoma acutigemmata* E. A. SMITH, 1877 (o. d.)

G3479 *T. acutigemmata* (E. A. SMITH, 1877)

(= *Pleurotoma jubata (pars) sensu* TRYON, 1884 non HINDS, 1843; *P. acutigemmata var. minor* E. A. SMITH, 1904)

Hon-itomaki-harabuto-shajiku

- Type locality: none designated ('off Bombay' (Mumbai, India) added to label with holotype in BMNH).
- Distribution: Izu peninsula, Tanegashima & Yakushima; Persian Gulf to East Indies, Australia (Queensland).
- Habitat: intertidal to 60 m., coarse sand and stones.
- Original genus: *Pleurotoma*.

G3480 *T. cincta* (LAMARCK, 1822 in 1815-22)

( = *Pleurotoma modesta* SOWERBY, 1834)

Itomaki-harabuto-shajiku

- Type locality: Mauritius.
- Distribution: Hachijō island (Izu islands) and southwards, Kii peninsula, P6-P5, EC5, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific, Australia.
- Habitat: intertidal to 50 m., coarse sand and stones.
- Original genus: *Pleurotoma*.

G3481 *T. bijubata* (REEVE, 1843 in 1843-65)

( = *Surcula bijubata nodulosa* BOUGE & DAUTZENBERG, 1914)

Kuro-itomaki-harabuto-shajiku

- Type locality: Burias island, Philippines, under stones at low water.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Mauritius to Hawaii, Australia.
- Habitat: intertidal to 30 m., under stones and coral.
- Original genus: *Pleurotoma*.

G3482 *T. cerithina* (ANTON, 1838)

( = *Pleurotoma digitale* REEVE, 1843; *Drillia digitalis* (REEVE) *sensu* TRYON, 1884; BOUGE & DAUTZENBERG, 1914)

Harabuto-shajiku

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Mauritius to Fiji, Australia.
- Habitat: intertidal to 20 m., under stones.
- Original genus: *Pleurotoma*.

G3483 *T. astricta astricta* (REEVE, 1843 in 1843-65)

( = *Pleurotoma interrupta* SOWERBY, 1834 *non* LAMARCK, 1816)

Kazari-itomaki-harabuto-shajiku

- Type locality: Anaa island, Tuamotu Archipelago; under coral on reefs.
- Distribution: Tanegashima & Yakushima and southwards, ECP4-ECP2; Tuamotu Archipelago.
- Habitat: subtidal to 20 m., coral reefs.
- Original genus: *Pleurotoma*.

G3484 *T. astricta consobrina* POWELL, 1967

Juzukake-harabuto-shajiku

- Type locality: Maalaea bay, Maui island, Hawaii; 40-50 ft.
- Distribution: Izu islands, Ogasawara islands (FUKUDA, 1995), Amami islands and southwards, ECP3-ECP2; Hawaii.
- Habitat: 10-20 m., coral reefs.

G3485 *T. jubata* (REEVE, 1843 in 1843-65)

Tategami-harabuto-shajiku

- Type locality: China seas and straits of Malacca, 18 fms.,

mud.

- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2; straits of Malacca to Melanesia.
- Habitat: 30-100 m., mud.
- Original genus: *Pleurotoma*.

**Notes:** also described by Hinds in Zoology of HMS 'Sulphur' (1843); Reeve's publication is thought to predate Hinds by months. Specimen figured by Shuto (1975) is not that figured by either Hinds or Reeve, and is only possibly a syntype.

G3486 *T. albofasciata* (E. A. SMITH, 1877-b)

( = *Surcula gatchensis* HERVIER, 1895)

Umi-nina-itomaki-harabuto-shajiku

- Type locality: 'Sandwich islands' (Hawaii).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Hawaii, Australia, New Caledonia.
- Habitat: 5-30 m., stones, coral reefs.
- Original genus: *Pleurotoma*.

G3487 *T. diffusa* POWELL, 1967

Sakurai-itomaki-harabuto-shajiku

- Type locality: Samoa.
- Distribution: Amami islands and southwards, ECP3-ECP2; Samoa.
- Habitat: 10-30 m., coral reefs.

G3488 *T. papillosa* (GARRETT, 1873)

Ibo-ibo-harabuto-shajiku

- Type locality: 'South sea islands'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Drillia*.

G3489 *T. nagasakiensis* (E. A. SMITH, 1879-b)

• Type locality: west of Nagasaki, western Kyūshū: 32° 43' N., 129° 28' E., 40-58 fms.

• Distribution: 'Pacific coast, 33° N.' (KURODA & HABE, 1952-a).

• Original genus: *Drillia*.

□ Genus *Decollidrillia* HABE & ITŌ, 1965-b

Type species: *Decollidrillia nigra* HABE & ITŌ, 1965 (o. d.)

G3490 *D. nigra* HABE & ITŌ, 1965-b

Kubikire-shajiku

- Type locality: off Iwate prefecture, northeastern Honshū.
- Distribution: northeastern Honshū, P9-P10, Japan Sea (Niigata prefecture, J3-J5).
- Habitat: 50-200 m., sandy mud.

□ Genus *Kuroshioturris* SHUTŌ, 1961

Type species: *Gemmula (Kuroshioturris) hyugaensis* SHUTŌ, 1961 (o. d.)

G3491 *K. hyugaensis* (SHUTŌ, 1961)

Iwado-kudamaki

- Type locality: Takanabe bed, Miyazaki prefecture, southeastern Kyūshū (fossil).
- Distribution: Enshū-nada (Shizuoka prefecture) and westwards, Mie prefecture (off Cape Daiō, 100 m. MATSUMOTO, 1979), Tosa bay, Bungo strait.
- Habitat: 100-200 m., sand.
- Original genus: *Gemmula* (*Kuroshioturris*).

G3492 *K. albogemmata* KURODA & ŌYAMA in KURODA *et al.*, 1971

Shiro-fushi-kudamaki (= Shirofu-kudamaki)

- Type locality: off Hayama, Sagami bay, central Honshū.
- Distribution: Sagami bay and westwards, Kii peninsula, Tosa bay.
- Habitat: 50-150 m., sand.

G3493 *K. nipponica* (SHUTŌ, 1961)

Yuki-fushi-kudamaki

- Type locality: Takanabe bed, Miyazaki prefecture, southeastern Kyūshū (fossil).
- Distribution: Suruga bay and westwards, Tosa bay, Kyūshū (off Miyazaki prefecture).
- Habitat: 100-200 m., sand.
- Original genus: *Gemmula* (*Ptychosyrinx*).

G3494 *K. kurodai* (MAKIYAMA, 1927)

Kiri-fushi-kudamaki

- Type locality: Ugari, Shizuoka prefecture (fossil).
- Distribution: Sagami bay and westwards, Enshū-nada (off Shizuoka prefecture), Mie prefecture (off Cape Daiō, 100 m. MATSUMOTO, 1979).
- Habitat: 100-200 m., sand.
- Original genus: *Mangilia*.

□ Genus *Gemmula* WEINKAUFF, 1875

Type species: *Pleurotoma gemmata* REEVE, 1843 non CONRAD, 1835 (s. d. COSSMANN, 1896; = *Gemmula hindsiana* BERRY, 1958)

(= *Eugemmula* IREDALE, 1931)

Subgenus *Gemmula s. str.*

G3495 *G. (G.) hindsiana* BERRY, 1958

(= *Pleurotoma gemmata* REEVE, 1843 in 1843-65 non CONRAD, 1835)

Hon-juzukake-kudamaki

- Type locality: 'probably off San Jose Id., Gulf of California ('Orca').
- Distribution: Sagami bay (KURODA, 1934-b); Pacific coast to 35° N.' (KURODA & HABE, 1952-a); California.

G3496 *G. (G.) pseudogranosa* (NOMURA, 1940)

Nishiki-juzukake-kudamaki

- Type locality: north of Chōshi (Chiba prefecture, central Honshū).

- Distribution: off Chōshi, Mie prefecture (off Owase, 150 m. MATSUMOTO, 1979), Tosa bay, western Japan Sea (off Tsunoshima TSUCHIDA & HORI, 1996).

- Habitat: 70-150 m., sand.

- Original genus: *Turris* (*Gemmula*).

G3497 *G. (G.) husamaru* (NOMURA, 1940)

Rozario-kudamaki

- Type locality: north of Chōshi (Chiba prefecture, central Honshū).

- Distribution: off Chōshi, Mie prefecture (off Owase, 200 m. MATSUMOTO, 1979), Tosa bay.

- Habitat: 50-100 m., sand.

- Original genus: *Turris* (*Gemmula*).

G3498 *G. (G.) pulchella* SHUTŌ, 1961

(= *Gemmula* cf. *granosa* sensu MACNEIL, 1960; *G. pulchella* var. *sensu* KURODA *et al.*, 1971)

Hoso-juzukake-kudamaki

- Type locality: Nihonmatsu, Takanabe, Miyazaki prefecture, southeastern Kyūshū (fossil).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, Japan Sea (off Mishima, J1), EC5.

- Habitat: 20-110 m., sand.

- Notes: originally ssp. of *G. granosa*.

G3499 *G. (G.) rarimaculata* KURODA & ŌYAMA in KURODA *et al.*, 1971

Tobifu-kudamaki

- Type locality: Sagami bay, central Honshū.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, Sagami bay, Suruga bay, Mie prefecture (Cape Daiō, 150 m. MATSUMOTO, 1979), Tosa bay; Australia.
- Habitat: 60-150 m., sand.

G3500 *G. (G.) congener congener* (E. A. SMITH, 1894-b)

Arabori-kudamaki

- Type locality: Bay of Bengal, 128 fms., and west of Colombo, Ceylon, 142-400 fms.

- Distribution: Mie prefecture (off Owase, 200 m. MATSUMOTO, 1979) and southwards, Tosa bay; Indo-Pacific, Australia, east Africa.

- Habitat: 100-350 m., sand.

- Original genus: *Pleurotoma*.

G3501 *G. (G.) congener diomedea* POWELL, 1964

Hime-juzukake-kudamaki

- Type locality: 'Albatross' sta. 5397: off Malcot, western Luzon, Philippines, 198 fms.

- Distribution: Enshū-nada and southwards, Mie prefecture (off Cape Daiō, 150 m. MATSUMOTO, 1979), western Kyūshū, ECP4-ECP2, P2; Philippines, Australia.

- Habitat: 100-400 m., sand.

G3502 *G. (G.) congener cosmoi* (SYKES, 1930)

Merubiru-kudamaki

- Type locality: Kii peninsula, central Honshū.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, East China Sea; central Pacific.
- Habitat: 50-350 m., sand.
- Original genus: *Turris*.

G3503 *G. (G.) speciosa* (REEVE, 1843 in 1843-65)

Yakko-kudamaki

- Type locality: none designated.
- Distribution: Tosa bay (southern Shikoku) and southwards; China, Philippines, Arabian sea.
- Habitat: 50-200 m., sand.
- Original genus: *Pleurotoma*.

G3504 *G. (G.) kieneri* (DOUMET, 1840)

(= *Pleurotoma carinata* REEVE, 1843; *Turris granosa sensu* KURODA & HABE, 1952-a; KIRA, 1962 non HELBLING, 1855)

- Type locality: 'les mers du Chine' (seas of China).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, Japan Sea (Mishima, J2-J1), EC5, ECP4-ECP2, East China Sea, P2; Philippines, Hong Kong.
- Habitat: 20-150 m., sand.
- Original genus: *Pleurotoma*.

G3505 *G. (G.) rosario* SHIKAMA & HAYASHI in SHIKAMA, 1977

Koge-juzukake-kudamaki

- Type locality: Kii strait, western Kii peninsula, central Honshū; 100-150 m.
- Distribution: Kii strait, eastern Kii peninsula (off Nagashima, Mie prefecture).
- Habitat: 30 m., sand.

G3506 *G. (G.) timorensis timorensis* (TESCH, 1915)

Tosa-tōgata-kudamaki

- Type locality: Timor island, Indonesia (fossil).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, Tosa bay; Celebes sea, Molluccas.
- Habitat: 200-1000 m., sand.

**Notes:** it is not clear whether material recorded from Japan is of this species or *G. timorensis teschi* POWELL, 1964; it seems possible that Powell's figure 6, on which *teschi* is based, represents a different species (D. Tippet, pers. comm. See also SYSOEV (1996: Bull. Nat. Hist. Mus. London (Zool.) 62 (1): 17).

G3507 *G. (G.) graeffei* (WEINKAUFF, 1875)

(= *Turris hombroni* HEDLEY, 1922)

Suso-murasaki-kudamaki (= Cha-iro-hoso-juzukake-kudamaki)

- Type locality: Torres strait, Australia.
- Distribution: Sagami bay (Enoshima); Philippines, Indonesia, northern Australia.
- Original genus: *Pleurotoma* (*Gemmula*).

Subgenus *Pinguiggemmula* MACNEIL, 1960

Type species: *Pinguiggemmula okinavensis* MACNEIL, 1960 (o. d.)

G3508 *G. (P.) luzonica* (POWELL, 1969)

Shimoto-kudamaki

- Type locality: off Harmana, Mayor island, Luzon, Philippines; 940 fms., on green mud.
- Distribution: Mie prefecture (off Owase, 200 m. MATSUMOTO, 1979); Philippines.
- Original genus: *Comitas*.

Subgenus *Ptychosyrinx* THIELE, 1925

Type species: *Pleurotoma (Subulata) bisinuata* MARTENS, 1901 (o. d.)

(= *Bathybermudia* HAAS, 1949; *Subulata* MARTENS, 1901 *nom. nud.*; *Ptychosyrinx sensu* OKUTANI, 1964-b *err. pro Ptycho-*)

G3509 *G. (Pt.) bisinuata bisinuata* (MARTENS, 1901)

Tosa-kiri-kudamaki

- Type locality: off Zanzibar, east Africa, 818-1362 m.
- Distribution: Tosa bay (southern Shikoku); east Africa.
- Original genus: *Pleurotoma*.

G3510 *G. (Pt.) bisinuata japonica* OKUTANI, 1964-b

Futakuchi-kudamaki

- Type locality: 'Sōyō-Maru' sta. 86A, Enshū-nada, off Aichi prefecture, central Honshū: 34° 25.7' N., 137° 58.5' E., 620 m.
- Distribution: Enshū-nada to Tosa bay (600-720 m.), Kumano-nada (610-1160 m.)

G3511 *G. (Pt.) truncata* SCHEPMAN, 1913 in 1908-13

(= *C. phymatias* WATSON *sensu* OKUTANI, 1964-b; 1966 non WATSON, 1885)

Sōyō-chibi-kudamaki

- Type locality: 'Siboga' sta. 221, Banda Sea, Indonesia: 6° 24' S., 124° 39' E., 794 m.
- Distribution: Izu islands (off Torishima, 2350 m.; off Bayonnaise rock, 1940-2050 m.; off Smith rock, 1940 m. OKUTANI, 1964-b; 1966; 1968); Philippines, Indonesia.
- Original genus: *Pleurotoma* (*Gemmula*).

□ Genus *Lophiotoma* CASEY, 1904

Type species: *Pleurotoma tigrina* LAMARCK, 1822 (s. d. WOODRING, 1928; = *Pleurotoma acuta* PERRY, 1811)

(= *Lophioturris* POWELL, 1964)

Subgenus *Lophiotoma s. str.*



G3512 *L. (L.) acuta* (PERRY, 1811)

(= *Pleurotoma marmorata* LAMARCK, 1816 non LINK, 1807; *P. tigrina* LAMARCK, 1822 in 1815-22; *P. punctata* SCHUBERT & WAGNER, 1829; *P. peaseana* DUNKER, 1871; *P. jickelii* WEINKAUFF, 1875; *P. picturata* WEINKAUFF, 1876; *L. microsticta* CASEY, 1904)  
Torafu-kudamaki

- Type locality: 'New South Wales'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific, Australia.
- Habitat: 20-50 m., sand.
- Original genus: *Pleurotoma*.

G3513 *L. (L.) notata* (SOWERBY III, 1889-b)

Kogasuri-kudamaki

- Type locality: Hong Kong.
- Distribution: Sagami bay and southwards, P7-P5, EC5, ECP4-ECP2, P2; South China Sea.
- Habitat: 50-200 m., sand.
- Original genus: *Pleurotoma*.

G3514 *L. (L.) abbreviata* (REEVE, 1843 in 1843-65)

Ijike-kudamaki

- Type locality: Masbate island, Philippines.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines.
- Habitat: 50-100 m., sand.
- Original genus: *Pleurotoma*.

G3515 *L. (L.) leucotropis* (ADAMS & REEVE, 1850 in 1848-50)

(= *Pleurotoma oxytropis sensu* IWAKAWA, 1919)  
Kudamaki-gai

- Type locality: China Sea, on sandy mud, 10-50 m.
- Distribution: Bōsō peninsula and southwards, P7-P5, Ōsaka bay (OKAMURA & KOJIMA, 1984), Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2; Philippines, South China Sea, Vietnam.
- Habitat: 20-100 m., fine sand.
- Original genus: *Pleurotoma*.

G3516 *L. (L.) indica* (RÖDING, 1798)

(= *Pleurotoma marmorata* LINK, 1807; *P. neglecta* REEVE, 1842; *P. bulowi* SOWERBY, 1888; *P. gendinganensis* MARTIN, 1895)  
Madara-kudamaki

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2; Philippines, western Australia, Fiji, Sri Lanka.
- Habitat: 20-80 m., sandy mud.
- Original genus: *Turris*.

Subgenus *Unedogemmula* MACNEIL, 1960

Type species: *Pleurotoma unedo* KIENER, 1839 (o. d.)

G3517 *L. (U.) unedo* (KIENER, 1839 in 1834-80)

(= *Turris invicta* MELVILL, 1910)

Hon-karigane

- Type locality: 'les mers de l'Inde'.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, East China Sea, P2; Philippines, China, Indo-western Pacific, Persian Gulf.
- Habitat: 50-150 m., fine sand and mud.
- Original genus: *Pleurotoma*.

G3518 *L. (U.) deshayesi* (DOUMET, 1839)

(= *Pleurotoma polytropa* HELBLING, 1855; *P. indica sensu* IWAKAWA, 1919)

Karigane-gai

- Type locality: 'les mers du Chine' (seas of China).
- Distribution: Bōsō peninsula and southwards, P7-P5, Ōsaka bay (OKAMURA & KOJIMA, 1984), EC5, ECP4, P2; China, Hong Kong.
- Habitat: 50-100 m., sandy mud.
- Original genus: *Pleurotoma*.

Subgenus *Xenuroturris* IREDALE, 1929

Type species: *Xenuroturris legitima* IREDALE, 1929 (o. d.); = *Pleurotoma cingulifera* LAMARCK, 1822  
(= *Clamaturris* IREDALE, 1931; *Xenoturris auct.*)

G3519 *L. (X.) cingulifera* (LAMARCK, 1822 in 1815-22)

(= *L. cingulifera flammulata* BOUGE & DAUTZENBERG, 1914; *X. legitima* IREDALE, 1929; *X. incredula* IREDALE, 1931)

Shajiku-kudamaki

- Type locality: Mauritius.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Indo-Pacific.
- Habitat: subtidal to 30 m., fine sand.
- Original genus: *Pleurotoma*.

G3520 *L. (X.) millepunctata* (SOWERBY III, 1909-a)

(= *Pleurotoma cingulifera zonifera* BOUGE & DAUTZENBERG, 1914)

Kasuri-kudamaki (= Kogasuri-kudamaki)

- Type locality: 'I. Monac, New Caledonia'.
- Distribution: Izu peninsula and southwards, P6-P5, ECP4-ECP2, P2; Philippines, western Pacific to Fiji.
- Habitat: 10-30 m., fine sand.
- Original genus: *Pleurotoma*.

G3521 *L. (X.) kingae* POWELL, 1964

Kingu-shajiku-kudamaki

- Type locality: Hawaii.
- Distribution: Okinawa (off Naha City, by sand pump KUROZUMI, 1992); Philippines, Hawaii.
- Habitat: 10-200 m., sand.

□ Genus *Turris* RÖDING, 1798

Type species: *Murex babylonius* LINNAEUS, 1758 (s. d.)

DALL, 1909)

(= *Turris* MÜLLER, 1766 non-binominal; *Pleurotoma* LAMARCK, 1799; *Pleurotomus* MONTFORT, 1810)  
Subgenus *Turris* s. str.

G3522 *T. (T.) babylonica* (LINNAEUS, 1758)

Hade-kudamaki

- Type locality: 'in O. Asiae' (Asian seas).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indonesia.
- Habitat: intertidal to 50 m., sand.
- Original genus: *Murex*.

G3523 *T. (T.) spectabilis* (REEVE, 1843 in 1843-65)

Hanayaka-kudamaki

- Type locality: Ticao island, Philippines.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Indo-Pacific to western Phoenix islands.
- Habitat: 5-50 m., sand.
- Original genus: *Pleurotoma*.

G3524 *T. (T.) garnonsii* (REEVE, 1843 in 1843-65)

Hashinaga-mino-bora

- Type locality: Cebu island, Philippines.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: 5-20 m., sand.
- Original genus: *Pleurotoma*.

G3525 *T. (T.) crispa crispa* (LAMARCK, 1816-b)

(= *Pleurotoma grandis* GRIFFITH & PIDGEON, 1834; *P. gracillima* WEINKAUFF, 1875)

Kuda-bora

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific, Australia.
- Habitat: 10-20 m., sand.
- Original genus: *Pleurotoma*.

G3526 *T. (T.) crispa yeddoensis* JOUSSEAUME, 1883

(= *Pleurotoma crispa sensu* IWAKAWA, 1919 non LAMARCK, 1816; *Turris garnonsi sensu* KURODA, 1928 non REEVE, 1843)

Mino-bora

- Type locality: 'Yedo' (Edo, former name for Tōkyō).
- Distribution: Bōsō peninsula and southwards, P6-P5, Japan Sea (J1), northwestern Kyūshū, EC5, ECP4.
- Habitat: 20-50 m., sand.

**Notes:** Aya-kudamaki *Pleurotoma variegata* KIENER, 1839 in 1834-80 (Type locality: 'l'Océan Indien') was recorded from the Yaeyama islands (IWAKAWA, 1919) but the present authors have been unable to confirm distribution of this species in Japan.

G3527 *T. (T.) undosa* (LAMARCK, 1816-b)

Kuchi-murasaki-kudamaki

- Type locality: none designated.
- Distribution: Mie prefecture (off Wagu, 30-50 m. MATSUMOTO, 1979) and southwards, Tosa bay, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Australia.
- Habitat: 10-50 m., sand.
- Original genus: *Pleurotoma*.

G3528 *T. (T.) nadaensis* AZUMA, 1973-b

Kii-kuchi-murasaki-kudamaki

- Type locality: off Nada (fishing port), Gobō district, Kii peninsula, central Honshū.
- Distribution: Kii peninsula and southwards, Tosa bay, ECP4-ECP2, P2; Philippines.
- Habitat: 10-80 m., sand.

G3529 *T. (T.) cryptorrhaphe* (SOWERBY I, 1825)

(= *Pleurotoma bicarinata* WOOD, 1828 in 1818-28)  
Wadachi-shajiku

- Type locality: none designated.
- Distribution: Okinawa (off Wakase, Naha City; Akashima, Zamami district KUROZUMI, 1992); Philippines.
- Original genus: *Pleurotoma*.

G3530 *T. (T.) pyrrha* (WATSON, 1881 in 1879-83)

- Type locality: 'Challenger' sta. 233a, 'Kobi' (Kobe, Hyōgo prefecture, central Honshū; Seto inland sea): 34° 35' N., 135° 10' E., 8-50 fms., mud.
- Distribution: recorded only from type locality.

Subgenus *Annulaturris* POWELL, 1966

Type species: *Pleurotoma amicta* E. A. SMITH, 1877 (o. d.)

G3531 *T. (A.) brevicanalisis* KURODA & ŌYAMA in KURODA *et al.*, 1971

Gomafu-kudamaki

- Type locality: Sagami bay, central Honshū.
- Distribution: Sagami bay and westwards, Mie prefecture (off Wagu; off Kii-Nagashima, 20 m. MATSUMOTO, 1979), Kii peninsula, Tosa bay, Bungo strait, western Kyūshū.
- Habitat: 20-50 m., sand.

□ Genus *Cryptogemma* DALL, 1918

Type species: *Gemmula benthina* DALL, 1908 (mt.)

G3532 *C. longicostata* SYSOEV & KANTOR, 1986

- Type locality: off northeastern Honshū: 40° 55' N., 144° 53' E., 3880-3900 m.
- Distribution: Japan trench; Kuril-Kamchatka trench.
- Habitat: abyssal. 3880-5200 m.

Subfamily COCHLESPIRINAE POWELL, 1942

□ Genus *Comitas* FINLAY, 1926

Type species: *Surcula oamarutica* SUTER, 1917 (o. d.; = *Drillia fusiformis* HUTTON, 1877)

G3533 *C. kaderlyi* (LISCHKE, 1872 in 1868-73)

Iguchi-gai

• Type locality: 'Bucht von Jedo und zwar von Jokohama bis hinaus zur Insel Eno-Sima' (Tōkyō bay, specifically from Yokohama to Enoshima).

• Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, East China Sea, P2; Philippines.

• Habitat: 140-1600 m., sandy mud.

• Original genus: *Pleurotoma*.

**Notes:** name subsequently amended to '*kaderleyi*' in LISCHKE (1869-74).

G3534 *C. kuroharai* (ŌYAMA, 1962-a)

(= *Turricula kuroharai* KURODA, MS *sensu* AZUMA, 1961 *nom. nud.*)

Kurohara-iguchi

• Type locality: southwestern Tosa bay, southern Shikoku; ± 100 m.

• Distribution: Mie prefecture (off Owase, 200 m. MATSUMOTO, 1979), Tosa bay, off southwestern Kyūshū.

• Habitat: 100-200 m., sandy mud.

G3535 *C. kirai* POWELL, 1969

(= *Turricula lurida* (ADAMS & REEVE) *sensu* KIRA, 1952; 1960 *non* ADAMS & REEVE, 1850 in 1848-50) Akebono-iguchi

• Type locality: Pacific coast of Shikoku, 30-60 fms.

• Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, EC5, ECP4-ECP2, East China Sea, P2; Philippines.

• Habitat: 50-400 m., sand.

G3536 *C. kamakurana* (PILSBRY, 1895-a)

(= *Turricula* (*Surcula*) *laysanica* DALL, 1919)

• Type locality: Kamakura, Sagami bay, central Honshū.

• Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines.

• Habitat: 10-100 m., sand.

• Original genus: '*Pleurotoma*'?

G3537 *C. ensyuensis* (SHIKAMA & HAYASHI in SHIKAMA, 1977)

Enshū-iguchi

• Type locality: 'Ensyu-nada' (Enshū-nada, off Shizuoka prefecture, central Honshū).

• Distribution: recorded only from type locality.

• Original genus: *Turricula* (*Comitas*).

G3538 *C. yukiae* (SHIKAMA, 1962-a)

Chichi-kake-iguchi

• Type locality: 'East of Chōshi' (Chiba prefecture, central Honshū), 250-300 fms.

• Distribution: Sagami bay (600-1030 m. OKUTANI, 1964-b; 1968), off Chōshi (TSUCHIDA & KUROZUMI, 1995-b), and northwards, P8-P10, Hokkaidō.

• Habitat: 200-600 m., sandy mud.

• Original genus: '*Rectiplanes*'?

G3539 *C. hayashii* (SHIKAMA, 1977)

Hayashi-iguchi

• Type locality: 'Ensyu-nada' (Enshū-nada, off Aichi prefecture, central Honshū).

• Distribution: off Mikawa-Isshiki (Aichi prefecture), Mie prefecture (off Owase, 300 m. MATSUMOTO, 1979), Kii peninsula (off Cape Shio).

• Habitat: 200-300 m., sand.

• Original genus: *Rectisulcus*.

□ Genus *Cretaspira* KURODA & ŌYAMA in KURODA *et al.*, 1971

Type species: *Cretaspira cretacea* KURODA & ŌYAMA, 1971 (o. d.)

G3540 *C. cretacea* KURODA & ŌYAMA in KURODA *et al.*, 1971

Shirotae-iguchi

• Type locality: Sagami bay, central Honshū.

• Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, Sagami bay, Mie prefecture (off Shima peninsula, 200 m. MATSUMOTO, 1979), Tosa bay.

• Habitat: 100-300 m., sand.

□ Genus *Nihonia* MACNEIL, 1960

Type species: *Nihonia shimajiriensis* MACNEIL, 1960 (o. d.)

G3541 *N. mirabilis* (SOWERBY III, 1914-b)

Hashinaga-iguchi

• Type locality: Nagasaki, western Kyūshū.

• Distribution: Kii peninsula and southwards, Tosa bay, Japan Sea (northern Yamaguchi prefecture, J1, FUKUDA *et al.*, 1992), East China Sea, ECP4.

• Habitat: 50-200 m., fine sand.

• Original genus: *Pleurotoma* (*Surcula*).

G3542 *N. soyomaruae* (ŌTSUKA, 1959)

Sōyō-hashinaga-iguchi

• Type locality: 'Sōyō-Maru' sta. 404, off Miyazaki, southeastern Kyūshū.

• Distribution: Kii peninsula and southwards, P5, EC5, East China Sea, P2.

• Habitat: 100-200 m., sand.

□ Genus *Marshallena* ALLAN, 1927

Type species: *Daphnella neozelanica* SUTER, 1917 (mt.) (= *Sugitania* KURODA, 1958; *Sugitanitoma* KURODA, 1959-a *non* MATSUMURA, 1926)

G3543 *M. philippinarum* (WATSON, 1882 in 1879-83)

( = *Pleurotoma (Surcula) nereis* E. A. SMITH, 1906;  
*Trophon (?) floresianus* SCHEPMAN, 1913 in 1908-13;  
*Sugitania reticulata* KURODA, 1958 *nom. nud.*;  
*Sugitanitoma reticulata* KURODA, 1959-a)

Ara-tae-bora

- Type locality: 'Challenger' sta. 210, eastern Philippines: 9° 26' N., 123° 43' E., 375 fms., mud.
- Distribution: Enshū-nada (off Shizuoka prefecture) and southwards, P6-P5, EC5; Philippines, Flores Sea, Andaman islands, Gulf of Aden, east Africa.
- Habitat: 100-1100 m., sand and sandy mud.
- Original genus: *Fusus (Metula)*.

□ Genus *Cochlespira* CONRAD, 1865-b

Type species: *Pleurotoma cristata* CONRAD, 1847  
 (= *Rouaultia* BELLARDI, 1878; *Candelabrum* DALL,  
 1878 *non* BLAINVILLE, 1830; *Ancistrotyrinx* DALL,  
 1881; *Coronasyrinx* POWELL, 1944; *Pagodasyrinx*  
 SHUTŌ, 1969)

G3544 *C. pulchella pulcherissima* (KURODA, 1959-a)  
 (= *Ancistrotyrinx pulcherissima* (KURODA, MS) *sensu*  
 KIRA, 1954; KIRA, 1959 *nom. nud.*)

Tenjiku-kudamaki

- Type locality: Pacific Ocean off southern Honshū, 80-100 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, East China Sea, ECP4; Philippines.
- Habitat: 150-200 m., coarse sand and stones.
- Original genus: *Ancistrotyrinx (Coronasyrinx)*.

G3545 *C. pulchella semipolita* POWELL, 1969

Tsuya-tenjiku-kudamaki

- Type locality: 'Albatross' sta. 5403: off Abgao, Leyte, Philippines, 182 fms.
- Distribution: off southern Kyūshū (Cape Makurazaki); Philippines.
- Habitat: 200-250 m.

G3546 *C. kuroharae* (KURODA, 1959-a)

Kurohara-tenjiku-kudamaki

- Type locality: Tosa bay, southern Shikoku.
- Distribution: Tosa bay.
- Habitat: 200-300 m., sand.
- Original genus: *Ancistrotyrinx*.

□ Genus *Thatcheriasyrinx* POWELL, 1969

Type species: *Ancistrotyrinx orientis* MELVILL, 1904  
**Note:** Powell allocated both *T. orientis orientis* and *T. orientis kawamurai* to this genus; the former is assumed to be the type species.

G3547 *T. orientis kawamurai* (KURODA, 1959-a)

Yōraku-kudamaki

- Type locality: Sagami bay, central Honshū.
- Distribution: Sagami bay, Amami Ōshima (dredged in

Sumiyo bay, 90 m.), Okinawa prefecture (off Miyako island); Philippines.

- Habitat: 100-200 m., sand.
- Original genus: *Ancistrotyrinx*.

□ Genus *Aforia* DALL, 1889

Type species: *Pleurotoma circinata* DALL, 1873 (o. d.)  
 (= *Irenosyrinx* DALL, 1908)

G3548 *A. circinata* (DALL, 1873)

(= *Pleurotoma insignis* JEFFREYS, 1883; *A. nojimensis* YOKOYAMA, 1920; *A. diomedea* BARTSCH, 1945; *A. sakhalinensis* BARTSCH, 1945; *Leucosyrinx (Aforia) circinata minatoensis* ŌTSUKA, 1949; *L. (A.) otohimei sensu* OZAKI, 1958)

Yagen-iguchi (= Tarachi-yagen-iguchi; Nojima-iguchi; Sakuharin-yagen-iguchi; Sabi-yagen-iguchi)

- Type locality: Nakachin bay, Unalaska, Alaska.
- Distribution: Sagami bay (620-800 m. OKUTANI, 1964-b), off Chōshi (Chiba prefecture, central Honshū) and northwards, P8-P10, Kuril islands (Iturup SYSOEV & KANTOR, 1987), Japan Sea (Noto peninsula, J3-J5); Korea, Bering Sea, Alaska.
- Habitat: 60-600 m., mud.
- Original genus: *Pleurotoma*.

G3549 *A. japonica* BARTSCH, 1945

(= *A. japonica sensu* OKUTANI, 1964-b *non* DALL, 1925)

Nihon-yagen-iguchi

- Type locality: 'Albatross' sta. 5088, off Jōgashima light, Sagami bay; 369 fms., on green mud.
- Distribution: Sagami bay, (730-760 m. OKUTANI, 1968); Izu islands (off Miyake island, 1080-1350 m. OKUTANI, 1964-b; 1968), Sagami bay (OKUTANI, 1966), Suruga bay.
- Habitat: 700-1500 m., green mud.

G3550 *A. hondoana* (DALL, 1925)

Hime-yagen-iguchi (= Hiro-kuchi-yagen-iguchi)

- Type locality: USBF sta. 5087, 'off Hondo' (central Honshū); 614 fms, mud.
- Distribution: Sagami bay, Kashima-nada (off Ibaraki prefecture).
- Habitat: 200-250 m., mud.
- Original genus: *Turricula (Surcula)*.

G3551 *A. okhotskensis* BARTSCH, 1945

Ohōtsuku-yagen-iguchi

- Type locality: near Cape Patience, Okhotsk Sea, 73 fms.
- Distribution: western Okhotsk Sea, Sakhalin.
- Habitat: 77-150 m., green mud, sand, gravel.

G3552 *A. kinkaidi* (DALL, 1919)

- Type locality: Shelikoff strait, north of Kodiak island, Alaska.

- Distribution: northern Japan; northern Pacific, Alaska.
- Original genus: *Leucosyrinx*.

G3553 *A. abyssalis* KANTOR & SYSOEV, 1987

- Type locality: east of Urup (Kuril islands), 5070-5090 m.
- Distribution: off southeastern Hokkaidō; northern Pacific.
- Habitat: abyssal. 3880-5456 m.

G3554 *A. inoperculata* SYSOEV & KANTOR, 1988

- Type locality: off northeastern Honshū: 40° 12' N., 143° 35' E., 2500 m.
- Distribution: recorded only from type locality.

□ Genus *Antiplanes* DALL, 1902

Type species: *Pleurotoma (Surcula) perversa* GABB, 1865 non PHILIPPI, 1847 (o. d.; = *Pleurotoma voyi* GABB, 1866)

(= *Rectiplanes* BARTSCH, 1944; *Rectisulcus* HABE, 1958-g)

(Refs: Kantor & Sysoev, 1991)

G3555 *Ant. delicatus* OKUTANI & IWAHORI, 1992

Hime-ezo-iguchi

- Type locality: Tosa bay, southern Shikoku; ± 700 m.
- Distribution: recorded only from type locality.

G3556 *Ant. sanctioannis* (E. A. SMITH, 1875)

(= *Pleurotoma beringi* AURIVILLIUS, 1887; *P. (Ant.) piona* DALL, 1902; *Ant. yessoensis* DALL, 1925; *Ant. sadoensis sensu* ŌTSUKA, 1949 non YOKOYAMA, 1926; *Ant. thalaea* DALL *sensu* KURODA & HABE, 1952-a; *Ant. (Rectiplanes) willetti* BERRY, 1953; *A. sanctioannis, sanctioannis auct.*, err.)

Ezo-iguchi

- Type locality: 'About 100 miles south-east of Yesso (Hokkaidō), 48 fms'.
- Distribution: Sagami bay (620-1520 m. OKUTANI, 1964-b; 1968), off Chōshi (Chiba prefecture, central Honshū) and northwards, P8-P10, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J5), OP, Okhotsk Sea; Bering Sea.
- Habitat: 50-1530 m., sandy mud.
- Original genus: *Pleurotoma*.

**Notes:** Sado-iguchi *Ant. sadoensis* YOKOYAMA, 1926 is a fossil species; recent records ('in stomach of flatfish from Hokkaidō', KUBOTA, 1962) are actually of *Ant. sanctioannis* (KANTOR & SYSOEV, 1991).

G3557 *Ant. kawamurai* (HABE, 1958-g)

Kawamura-ezo-iguchi (= Kawamura-iguchi)

- Type locality: off Chōshi (Chiba prefecture, central Honshū), 100-150 fms.
- Distribution: Sagami bay (1400-1520 m. OKUTANI, 1964-b; 1966; 1968), off Chōshi and northwards to southern Kuril islands (Shikotan).
- Habitat: 183-1520 m., sandy mud.

- Original genus: *Rectiplanes*.

G3558 *Ant. vinosa* (DALL, 1874)

(= *Ant. kamchatica* DALL, 1919; *Ant. contraria auct. non* YOKOYAMA, 1926)

Hoso-hidari-maki-iguchi (= Hidari-maki-iguchi; Kamuchatsuka-iguchi)

- Type locality: Kyska harbour, Aleutian islands; 10 fms., sand.
- Distribution: northeastern Honshū, northern Japan Sea to northern Okhotsk Sea, Bering Sea.
- Habitat: 100-300 m., sandy mud.
- Original genus: *Pleurotoma*.

G3559 *Ant. isaotakii* (HABE, 1958-g)

Taki-ezo-iguchi

- Type locality: off Chōshi (Chiba prefecture, central Honshū).
- Distribution: Sagami bay (620-780 m. OKUTANI, 1964-b), off Chōshi and northwards, P8-P9, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2, off Noto peninsula), southern Kuril islands.
- Habitat: 200-400 m., sandy mud.
- Original genus: *Rectiplanes (Rectisulcus)*.

G3560 *Ant. motojimai motojimai* (HABE, 1958-g)

Motojima-iguchi

- Type locality: off Chōshi (Chiba prefecture, central Honshū).
- Distribution: Sagami bay (550 m. OKUTANI, 1964-b; 1470-1500 m. OKUTANI, 1966), off Chōshi and northwards, P8-P9, Japan Sea (off Tajima; off Noto peninsula).
- Habitat: 200-870 m., sandy mud.
- Original genus: *Rectiplanes (Rectisulcus)*.

G3561 *Ant. motojimai aquilonalis* KANTOR & SYSOEV, 1991

- Type locality: 'Adler' sta. 169, eastern Bering Sea: 62° 59' N., 171° 05' W., 46 m.
- Distribution: southern Okhotsk Sea to Bering Sea.
- Habitat: 45-550 m.

Subfamily CRASSISPIRINAE MCLEAN, 1971

□ Genus *Anacithara* HEDLEY, 1922

Type species: *Mangilia naufraga* HEDLEY, 1909 (o. d.)  
Subgenus *Anacithara s. str.*

G3562 *A. (A.) osumiensis* (SOWERBY III, 1913-b)

Rakugan-tsubu

- Type locality: 'Osumi, Japan' (former Ōsumi province; now southern Kagoshima prefecture, Kyūshū, including Amami and Kikai islands).
- Distribution: Seto inland sea (Bisan Seto, Namikata INABA, 1982; Yanai, Yamaguchi prefecture FUKUDA et al., 1990), Kyūshū (Tomioka, Amakusa island), Amami

islands.

- Habitat: intertidal to 10 m., sand.
- Original genus: *Mangelia*.

G3563 *A. (A.) moeshimaensis* SHUTŌ, 1965

- Type locality: sea cliffs of northeastern and eastern Moeshima island, Kagoshima bay (late Pleistocene, fossil).
- Distribution: southwestern Shikoku (Okino-se bank, off Okinoshima TSUCHIDA, 1989), Japan Sea (Wakasa bay; south off Sado island).

□ Genus *Plicisyrinx* SYSOEV & KANTOR, 1986

Type species: *Plicisyrinx decapitata* SYSOEV & KANTOR, 1986 (o. d.)

G3564 *P. vitjazi* SYSOEV & KANTOR, 1986

- Type locality: off northeastern Honshū: 40° 55' N., 144° 53' E., 3880-3900 m.
- Distribution: Japan trench (37° 36' N., 143° 03' E.); type locality.
- Habitat: abyssal. 3620-5200 m.

G3565 *P. plicata* (OKUTANI, 1964-b)

- Type locality: 'Sōyō-Maru' sta. B2, 26 miles off Miyake island, Izu islands: 34° 10.0' N., 140° 05.5' E., 1230-1350 m.
- Distribution: recorded only from type locality.
- Original genus: '*Propebela*'.

□ Genus *Epidirona* IREDALE, 1931

Type species: *Epidirona hedleyi* IREDALE, 1931 (o. d.)

G3566 *E. sibogae* (SCHEPMAN, 1913 in 1908-13)

Kasuri-maki-shajiku-gai

- Type locality: 'Siboga' sta. 51, off Flores island, Indonesia, 69-71 m., and sta. 260, off Kai islands, eastern Banda Sea, Indonesia, 90 m.
- Distribution: southwestern Shikoku (Bungo Strait; Okinose bank TSUCHIDA, 1989); Indonesia.
- Habitat: 69-110 m.

**Notes:** a specimen figured by Fukuda (1995: 109, pl. 65, fig. 975) from the Ogasawara islands apparently belongs to this poorly-known species (A. Sysoev, pers. comm.)

- Original genus: *Pleurotoma*.

□ Genus *Kurodrillia* AZUMA, 1975

Type species: *Kurodrillia habui* AZUMA, 1975 (o. d.)

G3567 *K. habui* AZUMA, 1975

Kuroda-hoso-une-kudamaki

- Type locality: 2-3 km. off Cape Kirime, Wakayama prefecture (Kii peninsula, central Honshū).
- Distribution: recorded only from type locality.

□ Genus *Ptychobela* THIELE, 1925

Type species: *Clavatula crenularis* LAMARCK, 1816 (o. d.)

G3568 *P. flavidula* (LAMARCK, 1822 in 1815-22)

Takenoko-shajiku

- Type locality: 'dans la mer Rouge' (Red Sea).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, Ogasawara islands (FUKUDA, 1995), Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2, P2; Korea, Philippines, Australia, Red Sea.
- Habitat: 30-80 m., sand.
- Original genus: *Pleurotoma*.

□ Genus *Paradrillia* MAKIYAMA, 1940

Type species: *Drillia dainichiensis* YOKOYAMA, 1923 (o. d.)

(= *Vexitomina* POWELL, 1942; *Iwaoa* KURODA, 1953-b; *Alticlavatula* MACNEIL, 1960)

G3569 *P. consimilis* (E. A. SMITH, 1879-b)

(= *Drillia sinensis sensu* IWAKAWA, 1919; *C.*

(*Paradrillia*) *elachystoma convexiuscula* SHUTŌ, 1961)  
Hime-shajiku

- Type locality: 'south of Korea: 34° 8' N., 126° 24' E., 24 fms'.
- Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay TSUCHIDA, 1991) and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5, Seto inland sea.
- Habitat: 20-150 m., mud.
- Original genus: *Pleurotoma*.

**Notes:** the second syntype (BMNH 1963473) is marked 'China seas' (Cuming collection).

G3570 *P. patruelis* (E. A. SMITH, 1875-b)

Obi-hime-shajiku

- Type locality: 'Owashi' (Owase) bay, Mie prefecture, central Honshū; 34° 6' N., 136° 15' E., 11 fms.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1).
- Habitat: 20-150 m., sandy mud.
- Original genus: *Pleurotoma*.

G3571 *P. inconstans* (E. A. SMITH, 1875-b)

Ibo-hime-shajiku

- Type locality: 'Ōshima harbour, 8 fms; Tsushima Strait, 9 fms; Matzoa harbour (Okinawa), 6 fms'.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Seto inland sea, Japan Sea (J3-J1).
- Habitat: 10-100 m., sandy mud.
- Original genus: *Pleurotoma*.

G3572 *P. nivalioides* (YOKOYAMA, 1920)

Niba-hime-shajiku

- Type locality: Koshiba, Kanazawa-shiba-machi, Yokohama City (fossil).
- Distribution: Bōsō peninsula and southwards, P7-P5,

western Kyūshū.

- Habitat: 50-100 m., sandy mud.
- Original genus: *Pleurotoma* (*Drillia*).

G3573 *P. sagamiana* OKUTANI, 1964-b

Sagami-hime-shajiku

- Type locality: 'Sōyō-Maru' sta. 59, Sagami bay, central Honshū: 35° 05.35' N., 139° 18.65' E., 550 m.
- Distribution: recorded only from type locality.

G3574 *P. regia* (REEVE, 1842 in 1841-42)

Nishiki-shajiku

- Type locality: none designated.
- Distribution: Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; Philippines, Indo-western Pacific, Australia.
- Habitat: intertidal to 40 m., coarse sand and stones.
- Original genus: *Pleurotoma*.

G3575 *P. rougeyroni* (SOVERBIE in SOVERBIE & MONTROUZIER, 1874 in 1859-79)

Tsuzure-shajiku

- Type locality: Lifu, Loyalty islands, New Caledonia.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Pleurotoma*.

G3576 *P. reticulata* (KURODA, 1953-b)

Iwao-bora

- Type locality: Tosa bay, southern Shikoku; ± 150 fms.
- Distribution: Suruga bay and westwards, Enshū-nada, Tosa bay.
- Habitat: 200-300 m., sand.
- Original genus: *Iwaoa*.

G3577 *P. felix* (KURODA & ŌYAMA in KURODA *et al.*, 1971)

Medeta-ko-shajiku

- Type locality: Minami-Amadaiba, Sagami bay, central Honshū; 250-300 m.
- Distribution: Ōtsuchi bay (Iwate prefecture) and southwards, off Chōshi (Chiba prefecture, central Honshū), Sagami bay, Suruga bay.
- Habitat: 65-300 m., sand.
- Original genus: *Viridoturris*.

□ Genus *Carinapex* DALL, 1924

Type species: *Drillia minutissima* GARRETT, 1873 (o. d.)

G3578 *Ca. minutissima* (GARRETT, 1873)

Sabi-kugi-shajiku (= Mame-tsubu-momiji-bora)

- Type locality: Fiji islands.
- Distribution: Amami Ōshima (Tsuchihama), Ogasawara islands (FUKUDA, 1995); Hawaii, New Caledonia, Fiji.
- Habitat: intertidal to 10 m., sand.

- Original genus: *Drillia*.

G3579 *Ca. papillosa* (GARRETT, 1873)

Type locality: Tahiti.

- Distribution: Ogasawara islands (Iō-jima KOIZUMI, 1993); Hawaii, Tahiti.
- Habitat: ± 30 m., in sediments.
- Original genus: *Drillia*.

□ Genus *Austrodrillia* HEDLEY, 1918

Type species: *Pleurotoma angasi* CROSSE, 1863 (o. d.)

G3580 *A. (A.) hinomotoensis* KURODA & ŌYAMA in KURODA *et al.*, 1971

Kobito-momiji-bora

- Type locality: Sagami bay, central Honshū.
- Distribution: Sagami bay.
- Habitat: 60-150 m., sand.

□ Genus *Haedropleura* BUCQUOY *et al.*, 1883

Type species: *Pleurotoma septangularis* MONTAGU, 1803 (o. d.)

G3581 *H. pygmaea* (DUNKER, 1860)

Chibi-shajiku

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5.
- Habitat: intertidal to 60 m., sand.
- Original genus: *Mangilia*.

G3582 *H. fukuchiana* (YOKOYAMA, 1922)

Fukuchi-chibi-shajiku

- Type locality: Ōtake, Narita City, Chiba prefecture, central Honshū (fossil).
- Distribution: Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967).
- Habitat: 25-150 m., sand.

□ Genus *Inquisitor* HEDLEY, 1918

Type species: *Pleurotoma sterrha* WATSON, 1881 (o. d.) (= *Pseudoinquisitor* POWELL, 1942; *Inquistor auct.*)

G3583 *I. jeffreysii* (E. A. SMITH, 1875)

(= *Drillia principalis* PILSBRY, 1895; *Brachytoma zuiomaru* NOMURA & HATAI, 1940) Momiji-bora (= Fuji-iro-momiji-bora)

- Type locality: Goza harbour, entrance to Ago bay, Mie prefecture, central Honshū; 3-43 fms.
- Distribution: southern Hokkaidō (Pacific side) and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea.
- Habitat: 10-100 m., sand.
- Original genus: *Drillia*.

G3584 *I. vulpionis* KURODA & ŌYAMA in KURODA *et al.*, 1971

Migaki-momiji-bora

- Type locality: Sagami bay, central Honshū.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5.
- Habitat: 10-100 m., sand.

G3585 *I. nudivaricosus* **KURODA & ŌYAMA in KURODA et al., 1971**

Oboro-momiji-bora

- Type locality: Sagami bay, central Honshū.
- Distribution: Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986) and southwards, P7-P5, EC5.
- Habitat: 20-50 m., sand.

G3586 *I. cinereopelis* **(KURODA & ŌYAMA in KURODA et al., 1971)**

Haiginu-momiji-bora

- Type locality: Sagami bay, central Honshū.
- Distribution: off Chōshi (Chiba prefecture, central Honshū), Sagami bay.
- Habitat: 50-200 m., sandy mud.
- Original genus: *Leptadrillia*.

G3587 *I. chocolatus* **(E. A. SMITH, 1875)**

Cha-iro-momiji-bora

- Type locality: 'Goza harbour, Japan, 34° 18' N., 136° 45' E' (entrance to Ago bay, Mie prefecture, central Honshū); 6 fms.
- Distribution: Kii peninsula and southwards, P5, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5.
- Habitat: 10-100 m., sand.
- Original genus: *Pleurotoma* (*Drillia*).

G3587-1 *I. alabaster* **(REEVE, 1843 in 1843-65)**

Kesho-momiji-bora

- Type locality: Island of Siquijor, Philippines.
- Distribution: off Kii peninsula, Japan Sea, western Kyūshū; Philippines (Bohol).
- Habitat: 40-80 m., sand.
- Original genus: *Pleurotoma*.

G3587-2 *I. elachystoma* **(MARTENS, 1901)**

Arare-takenoko-shajiku

- Type locality: east Africa (off Somaliland): 0° 27' N., 42° 47' E.
- Distribution: Tosa bay, off western Kyūshū; east Africa.
- Habitat: 50-100 m., sandy mud.
- Original genus: *Pleurotoma*.

G3587-3 *I. angustus* **KURODA & ŌYAMA in KURODA et al., 1971**

Hashinaga-momiji-bora

- Type locality: Barane, Sagami bay, central Honshū; 70-80 m.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, Kii peninsula, Japan Sea

(Wakasa bay), western Kyūshū; northeastern Australia.

- Habitat: 15-100 m., sandy mud.

G3588 *I. exiguus* **(KURODA & ŌYAMA in KURODA et al., 1971)**

Chiisa-momiji-bora

- Type locality: Sagami bay, central Honshū.
- Distribution: off Chōshi (Chiba prefecture, central Honshū), Sagami bay.
- Habitat: 50-200 m., sandy mud.
- Original genus: *Pseudoinquisitor*.

G3589 *I. pseudoprincipalis* **(YOKOYAMA, 1920)**

Hoso-une-momiji-bora (= Yokoyama-shajiku)

- Type locality: Naganuma, Yokohama City (fossil).
- Distribution: western Yamaguchi prefecture (Shimonoseki, J1, FUKUDA et al., 1990), Ariake inland sea (OKAMOTO, 1977; FUKUDA, 1996).

G3590 *I. rufovaricosa* **(KURODA & ŌYAMA in KURODA et al., 1971)**

Torafu-momiji-bora

- Type locality: Sagami bay, central Honshū.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, Izu islands, Mie prefecture (off Shima peninsula, 120 m. MATSUMOTO, 1979), Tosa bay; Philippines.
- Habitat: 60-200 m., coarse sand and stones.
- Original genus: *Crassispira*.

G3591 *I. takeokaensis* **(OTSKUKA, 1949)**

Midori-momiji-bora

- Type locality: sea cliff at Tomiya, Bōsō peninsula (fossil).
- Distribution: southern Hokkaidō and southwards, P10-P8, Izu islands (off Miyake island, 1080-1350 m. OKUTANI, 1964-b; 1968), Bōsō peninsula (TSUCHIDA & KUROZUMI, 1995-b), and southwards, Sagami bay (740-1030 m. OKUTANI, 1964-b), Suruga bay, Kii peninsula, Tosa bay.
- Habitat: 100-1100 m., sandy mud.
- Original genus: *Brachytoma*.

□ Genus *Carinodrillia* **DALL, 1919**

Type species: *Clathrodrillia* (*Carinodrillia*) *halis* DALL, 1919 (o. d.)

G3592 *C. quadrilirata* **(E. A. SMITH, 1882)**

Yokosuji-kudamaki

- Type locality: none designated; described from a Cuming specimen in the BMNH.
- Distribution: 'southern Honshū and southwards, tropical Pacific' (KOSUGE & KANAZAWA, 1994).
- Original genus: *Pleurotoma* (*Clavus*).

Subfamily **ZONULISPIRINAE MCLEAN, 1971**

□ Genus *Pilsbryspira* **BARTSCH, 1950**



Type species: *Pilsbryspira pilsbryi* BARTSCH, 1950 (o. d.)

G3593 *P. albiguttata* (PILSBRY, 1904-b)

Shiraboshi-shajiku

- Type locality: 'Seto, Kii' (Seto inland sea and Kii peninsula, central Honshū).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and westwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5.
- Habitat: subtidal to 20 m., sandy mud.
- Original genus: *Drillia*.

G35943 *P. flavonodulosa* (E. A. SMITH, 1879-b)

Kiboshi-shajiku

- Type locality: 'Inland sea between Shikoku and Nippon' (Seto inland sea): 34° 32' N., 133° 40' E., 22 fms.
- Distribution: Suruga bay and westwards, P6-P5, Seto inland sea, western Kyūshū, Gotō islands.
- Habitat: intertidal, sandy mud.
- Original genus: *Drillia*.

G3595 *P. kandai* (KURODA, 1950-a)

Kanda-ibo-shajiku

- Type locality: Shirasaki, Yura district, Wakayama prefecture, central Honshū.
- Distribution: Bōsō peninsula and westwards, Kii peninsula, P7-P5, western Kyūshū.
- Habitat: subtidal to 30 m., sandy mud.
- Original genus: *Crassispira* (*Crassispirella*).

G3596 *P. umbrosa* (MELVILL, 1923)

Kusumi-ibo-shajiku

- Type locality: 'Hirado Hegen, Japan' (Hirado island, western Kyūshū).
- Distribution: Kii peninsula and westwards, P5, Japan Sea (Mishima, J1), EC5 to western Kyūshū.
- Habitat: intertidal to 30 m., sandy mud.
- Original genus: *Mangelia*.

□ Genus *Compsodrillia* WOODRING, 1928

Type species: *Compsodrillia urceola* WOODRING, 1928 (o. d.)

Subgenus *Mammillaedrillia* KURODA & ŌYAMA in KURODA *et al.*, 1971

Type species: *Compsodrillia* (*Mammillaedrillia*) *mamillata* KURODA & ŌYAMA, 1971 (o. d.)

G3597 *C. (M.) mamillata* KURODA & ŌYAMA in KURODA *et al.*, 1971

Chikubi-momiji-bora

- Type locality: off Hayama, Sagami bay, central Honshū.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and westwards, Sagami bay, Izu islands, Enshū-nada (off Shizuoka prefecture), Mie prefecture (off Nagashima, 80 m. MATSUMOTO, 1979).
- Habitat: 80-110 m., fine sand and mud.

G3598 *C. (M.) nakamurai* MAKIYAMA, 1931

Okina-momiji-bora

- Type locality: Ukari, Shuchi-gun, Shizuoka prefecture (fossil).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and westwards, Sagami bay, Enshū-nada, Mie prefecture (Shima peninsula, 50 m. MATSUMOTO, 1979).
- Habitat: 50-100 m., sandy mud.

Subfamily CLAVATULINAE GRAY, 1853

□ Genus *Turricula* SCHUMACHER, 1817

Type species: *Turricula flammea* SCHUMACHER, 1817 (mt.; = *Murex javanus* CHEMNITZ *non* LINNAEUS, 1767)

(= *Surcula* H. & A. ADAMS, 1853; *Surgula* WEINKAUFF, 1875)

G3599 *T. nelliae spurius* (HEDLEY, 1922)

(= *Pleurotoma tuberculata* GRAY, 1839 *non* PUSCH, 1836; *P. punctata* REEVE, 1845 *non* SCHUBERT & WAGNER, 1829; *Surcula nellia sensu* MELVILL, 1917 *non* E. A. SMITH, 1877; *Turricula byorituensis* NOMURA, 1935)

Juzukake-iguchi

- Type locality: 'China'.
- Distribution: Okinawa islands and southwards, ECP2, P2; South China Sea to Persian Gulf.
- Habitat: 9-70 m., sandy mud.
- Original genus: *Inquisitor*.

□ Genus *Makiyamaia* MACNEIL, 1960

Type species: *Pleurotoma coreanica* ADAMS & REEVE, 1850 (o. d.)

(= *Makiyamaia* ŌYAMA, 1952 *nom. nud.*; *Makiyamaia* KIRA, 1955 *nom. nud.*)

G3600 *M. coreanica* (ADAMS & REEVE, 1850 in 1848-50)

(= *Pleurotoma shimomatana* YOKOYAMA, 1926; *P. subdeclivis forma glabra, intermedia, tuberculata* all YOKOYAMA, 1928)

Chōsen-iguchi

- Type locality: Korea.
- Distribution: off Chōshi (Chiba prefecture, central Honshū), P7-P5 (Sagami bay, 450 m. OKUTANI, 1964-b), EC5; Korea.
- Habitat: 160-450 m., sand.
- Original genus: *Pleurotoma*.

G3601 *M. subdeclivis* (YOKOYAMA, 1926-g)

Kuchizuno-iguchi

- Type locality: Aki district, Kōchi prefecture, southern Shikoku (fossil).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, P2; South China Sea.

- Habitat: 100-400 m., sand.
- Original genus: *Pleurotoma*.

G3602 *M. mammillata* KURODA, 1961-c

Makiyama-iguchi

- Type locality: Tosa bay, southern Shikoku.
- Distribution: Sagami bay and westwards, Suruga bay, Mie prefecture (off Shima peninsula, 200 m. MATSUMOTO, 1979), Tosa bay, off eastern Kyūshū.
- Habitat: 100-200 m., sand.

Family CONIDAE FLEMING, 1822

Subfamily CLATHURELLINAE H. & A. ADAMS, 1858 in 1853-58

□ Genus *Bathytoma* HARRIS & BURROWS, 1891

Type species: *Murex cataphractus* BROCCCHI, 1814 (o. d.) (= *Dolichotoma* BELLARDI, 1875 non HOPE, 1839)

Subgenus *Micantapex* IREDALE, 1936

Type species: *Bathytoma agnata* HEDLEY & PETTERD, 1906 (o. d.)

G3603 *B. (M.) luehdorfi* (LISCHKE, 1872 in 1868-73)

(= *Drillia principalis* PILSBRY *sensu* IWAKAWA, 1919; KURODA & HABE, 1952-a)

Shajiku-gai

- Type locality: 'Bucht von Jedo und zwar von Jokohama bis hinaus zur Insel Eno-Sima' (Tōkyō bay, specifically from Yokohama to Enoshima).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, EC5, East China Sea.
- Habitat: 50-200 m., fine sand.
- Original genus: *Pleurotoma*.

G3604 *B. striatotuberculata* (YOKOYAMA, 1928)

- Type locality: Kounji, Miyazaki prefecture, Kyūshū (Pliocene fossil).
- Distribution: central Honshū (Sagami bay, 550 m.; Enshū-nada, 620 m.), western Kyūshū (730-760 m.) (OKUTANI, 1964-b).
- Habitat: 100-200 m., sand.
- Original genus: *Pleurotoma* (as ssp. of *P. subdeclivis*).

Subgenus *Riuguhdrillia* ŌYAMA, 1951

Type species: *Drillia engonia* WATSON, 1881 (mt.)

G3605 *B. (R.) engonia* (WATSON, 1881)

(= *Suavodrillia sagamiana* DALL, 1925)

Yagen-kudamaki

- Type locality: 'Challenger' sta. 232, off Enoshima, Tōkyō bay: 35° 11' N., 139° 28' E., 345 fms., sandy mud and (sic) sta. 169, N. E. from New Zealand: 37° 34' S., 179° 22' E., 700 fms., grey ooze.
- Distribution: central Honshū (Sagami bay; Kashima-nada OKUTANI, 1964-b; 1966; 1968), northeastern Honshū (Iwate prefecture).
- Habitat: 200-1140 m., mud.

- Original genus: *Pleurotoma* (*Genota*).

□ Genus *Ophiodermella* BARTSCH, 1944-a

Type species: *Pleurotoma inermis* HINDS, 1843 (o. d.)

G3606 *O. ogurana* (YOKOYAMA, 1926)

Ogura-futa-manji

- Type locality: Sado island, Japan Sea (fossil).
- Distribution: Sado island to Hokkaidō, Kuril islands.
- Original genus: *Genotia*.

G3607 *O. miyatensis* (YOKOYAMA, 1920)

(= *Genotia pseudopannus* var. *semtensis* YOKOYAMA, 1922)

Kuri-iro-futa-manji (= Miyata-kuchinawa-manji)

- Type locality: Shitō, Ichihara City, Chiba prefecture, central Honshū and Shimo-Miyata, Miura City, Kanagawa prefecture (fossil).
- Distribution: Hokkaidō and southwards, P10-P8, Japan Sea (J5-J1, Tsushima).
- Habitat: subtidal to 250 m., rocks.
- Original genus: *Pleurotoma* (*Mangilia*).

G3608 *O. pseudopannus* (YOKOYAMA, 1922)

Boro-kuchinawa-manji

- Type locality: Ōtake, Narita City, Chiba prefecture, central Honshū (fossil).
- Distribution: Kii peninsula, Japan Sea (Wakasa bay and southwards, J2-J1), EC5, East China Sea.
- Habitat: 100-150 m.
- Original genus: *Genotia*.

G3609 *O. erosa* (SCHRENCK, 1862 in 1862-63)

Ezo-shajiku

- Type locality: northern Japan.
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, P9-P10, Hokkaidō; Sakhalin.
- Habitat: 50-200 m., sandy mud.
- Original genus: *Pleurotoma* (*Clavatulula*).

G3610 *O. akkeshiensis* (HABE, 1958-j)

Akkeshi-shajiku

- Type locality: Akkeshi bay, Hokkaidō.
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, P9-P10, Hokkaidō.
- Habitat: 50-100 m., sandy mud.

□ Genus *Mitromorpha* CARPENTER, 1865

Type species: *Mitromorpha filosa* CARPENTER, 1865 (mt.)

Subgenus *Mitrolumna* BUCQUOY *et al.*, 1883

(= *Clinomitra* BELLARDI, 1889; *Diptychomitra* BELLARDI, 1889; *Mitrihara* HEDLEY, 1922; *Itia* MARWICK, 1931; *Arielia* SHASKY, 1961)

G3611 *M. (Mitrolumna) alphonsiana* (HERVIER, 1899)

(= *M. salisburyi* CERNOHORSKY, 1978)

Arare-shizuku-nina

- Type locality: '*Insula Lifou*' (Lifu, Loyalty islands, New Caledonia).
- Distribution: 'Pacific coast to 29° N.' (KURODA & HABE, 1952-a); Hawaii, New Caledonia.
- Original genus: *Columbella*.

G3612 *M. (Mitrolumna) metula* (HINDS, 1843-g)

(= *Mitra lachryma* REEVE, 1845; *Cythara garretti* PEASE, 1860; *Columbella pusiola* DUNKER, 1871; *C. producta*, *C. abbreviata*, *C. nitens* all HERVIER, 1899)  
Shizuku-nina

- Type locality: none designated.
- Distribution: Izu islands and southwards, P6-P5, Ogasawara islands (FUKUDA, 1994), Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2; Philippines, Hawaii.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Clavatula*.

G3613 *M. (Mitrolumna) peaseana* (FINLAY, 1927)

(= *Conus fusiformis* PEASE, 1860-a non FISCHER, 1807; *Conus parva* PEASE, 1868-d non BORSON, 1820)  
Shiraboshi-shizuku-nina

- Type locality: 'Sandwich Islands' (Hawaii).
- Distribution: Ogasawara islands (FUKUDA, 1994); Hawaii, Indo-Pacific (KAY, 1979), Polynesia.
- Habitat: intertidal.
- Original genus: *Lovellona*.

G3614 *M. (Mitrolumna) pinguis* (HERVIER, 1899)

Harabuto-shizuku-nina

- Type locality: '*Insula Lifou*' (Lifu, Loyalty islands, New Caledonia).
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Columbella*.

G3615 *M. (Mitrolumna) dorcas* (KURODA & ŌYAMA in KURODA *et al.*, 1971)

Adeyaka-shizuku-nina

- Type locality: Sagami bay, central Honshū.
- Distribution: Izu islands and southwards, Sagami bay, Tosa bay, Ogasawara islands (FUKUDA, 1995); Philippines.
- Habitat: 50-200 m., coarse sand and stones.
- Original genus: *Anarithma*.

G3616 *M. (Mitrolumna) fisheri* (HERVIER, 1899)

Kokoa-no-shizuku-nina

- Type locality: '*Insula Lifou*' (Lifu, Loyalty islands, New Caledonia).
- Distribution: Kii peninsula and southwards, P5, Ogasawara islands (FUKUDA, 1994), ECP4-ECP2, P2;

Philippines, Indo-Pacific.

- Habitat: intertidal to 20 m., sand.

□ Genus *Lovellona* IREDALE, 1917

Type species: *Conus atramentosus* REEVE, 1849 (o. d.)

G3617 *L. atramentosa* (REEVE, 1849 in 1843-65)

Sumizome-shizuku-nina

- Type locality: 'Island of Mindoro, Philippines; under stones at low water'.
- Distribution: Amami islands and southwards, Ogasawara islands (FUKUDA, 1994), ECP3-ECP2, P2; Philippines, Indo-Pacific Australia to Zanzibar.
- Habitat: intertidal to 10 m., under coral on reefs.
- Original genus: *Conus*.

□ Genus *Clathurella* CARPENTER, 1857

Type species: *Clavatula rava* HINDS, 1843 (s. d. COSSMANN, 1896)

G3618 *C. filosa* GOULD, 1860 in 1859-60

- Type locality: 'Ousima' (Amami Ōshima).
- Distribution: Amami islands and southwards, ECP3-ECP2.
- Habitat: intertidal to 20 m., sand (KURODA, 1928-c).

G3619 *C. rubicunda* GOULD, 1860 in 1859-60

- Type locality: 'Loo Choo' (Okinawa).
- Distribution: Okinawa (KURODA, 1960).

□ Genus *Pulsarella* LASERON, 1954

Type species: *Pleurotoma cognata* E. A. SMITH, 1877 (o. d.)

G3620 *P. komakimonos* (ŌTSUKA, 1935)

Koge-shajiku

- Type locality: Sagami bay, central Honshū; 13 m.
- Distribution: off Chōshi (Chiba prefecture, central Honshū), P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5.
- Habitat: 10-80 m., sand.
- Original genus: *Asthenotoma*.

G3621 *P. triporcata* (E. A. SMITH, 1879)

- Type locality: Gotō islands, off western Kyūshū: 33° 19' N., 129° 7' 30" E., 50 fms.
- Distribution: 'Pacific coast at 33° N.' (KURODA & HABE, 1952-a).
- Original genus: *Pleurotoma*.

□ Genus *Tomopleura* CASEY, 1904

Type species: *Pleurotoma nivea* PHILIPPI, 1852 (o. d.) (= *Cryptomella* FINLAY, 1924)

G3622 *T. nivea* (PHILIPPI, 1852 in 1852-53)

(= *Oligotoma makimonos* JOUSSEAUME, 1883)

Makimono-shajiku (= Miyuki-shajiku)

- Type locality: '*Insulae Formosa*' (Taiwan).
- Distribution: off Chōshi (Chiba prefecture, central

Honshū) and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2; Indo-western Pacific.

- Habitat: 5-70 m., fine sand.
- Original genus: *Pleurotoma*.

G3623 *T. pouloensis* JOUSSEAUME, 1883

Koge-makimono-shajiku

- Type locality: 'Malacca' (Indonesia).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, Japan Sea (Wakasa bay, J2-J1), EC5; Indonesia.
- Habitat: 10-130 m., sand.
- Original genus: *Pleurotoma*.

G3624 *T. vertebrata* (E. A. SMITH, 1875-b)

Tsuma-beni-kudamaki

- Type locality: Persian Gulf and Matzoa harbour (Okinawa), 6 fms.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2.
- Habitat: 5-30 m., sand.
- Original genus: *Pleurotoma*.

G3625 *T. cigatrigula* (HEDLEY, 1922)

Sumire-makimono-shajiku

- Type locality: 'Albany Passage, Queensland; 4-14 fms.'
- Distribution: Okinawa (KURODA, 1960); Australia, Indo-western Pacific.
- Original genus: *Asthenotoma*.

G3626 *T. reciproca* (GOULD, 1860 in 1859-60)

- Type locality: 'Ousima' (Amami Ōshima).
- Distribution: recorded only from type locality.
- Original genus: *Drillia*.

□ Genus *Microdrillia* CASEY, 1903

Type species: *Pleurotoma cossmanni* MEYER, 1887 (s. d. COSSMANN, 1906)

G3627 *M. sagamiensis* KURODA & ŌYAMA in KURODA *et al.*, 1971

Tsunami-shajiku

- Type locality: Sagami bay, central Honshū.
- Distribution: Sagami bay, Japan Sea (off Sado island; Wakasa bay).
- Habitat: 40-150 m., sandy mud.

G3628 *M. difficilis* (E. A. SMITH, 1879)

- Type locality: 'between south-western extremity of Nippon and the island of Shikoku': 33° 45.5' N., 132° 30' E., 30 fms.
- Distribution: 'Pacific coast, 33°-35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Pleurotoma*.

Notes: the second syntype in the BMNH is labelled: 'N. of

Kiusiu' (Kyūshū), 33° 56' N., 130° 27' E.

G3629 *M. niponica* (E. A. SMITH, 1879)

- Type locality: 'Challenger' sta. 21, 'between south-western extremity of Nippon and the island of Shikoku': 33° 45.5' N., 132° 30' E., 30 fms.
- Distribution: off Shima peninsula (Cape Daiō, 80 m. MATSUMOTO, 1979); 'Pacific coast 33°-36° N.' (KURODA & HABE, 1952-a).
- Original genus: *Pleurotoma*.

□ Genus *Suavodrillia* DALL, 1918

Type species: *Drillia kennicotti* DALL, 1871 (o. d.)

G3630 *S. kennicotti* (DALL, 1871)

(= *Pleurotoma declivis* MARTENS, 1880)

Togari-kudamaki

- Type locality: North Harbour, Unga island, Alaska.
- Distribution: off southern Hokkaidō and southwards, P10-P5, Japan Sea (J3-J1), EC5; Alaska.
- Habitat: 20-200 m., sand.
- Original genus: *Drillia*.

□ Genus *Etrema* HEDLEY, 1918

Type species: *Mangilia (Glyphostoma) aliciae* MELVILL & STANDEN, 1895 (o. d.)

Subgenus *Etrema s. str.*

G3631 *E. (E.) crassilabrum* (REEVE, 1843 in 1843-65)

(= *E. culmea* HEDLEY, 1922)

Atsu-kuchibiru-kuchikire-tsubu

- Type locality: 'Island of Ticao, Philippines (found on the reefs)'.
- Distribution: Izu islands (Hachijō island), Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-western Pacific to Fiji.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Pleurotoma*.

G3632 *E. (E.) minutissimelirata* (BOUGE & DAUTZENBERG, 1914)

Futo-kuchikire-tsubu (= Kamisuji-koshiboso-kuchikire-tsubu)

- Type locality: 'Lifou' (Lifu, Loyalty islands, New Caledonia).
- Distribution: Amami islands and southwards, Ogasawara islands (FUKUDA, 1994), ECP3-ECP2, P2; Philippines, western Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Glyphostoma* (as var. of *G. crassilabrum*).

G3633 *E. (E.) royi* (SOWERBY III, 1913-a)

Tōgata-koshiboso-kuchikire-tsubu

- Type locality: 'Osumi, Japan' (former Ōsumi province; now Kagoshima prefecture, southern Kyūshū, including

Amami and Kikai islands).

- Distribution: Izu islands and southwards, P6-P5, Japan Sea (Noto peninsula, J2-J1), Ogasawara islands (FUKUDA, 1994), EC5, ECP4-ECP2, P2; western Pacific.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Clathurella*.

G3634 *E. (E.) glabriplicata* (SOWERBY III, 1913-a)

Kebori-koshiboso-kuchikire-tsubu

- Type locality: 'Osumi, Japan' (former Ōsumi province; now Kagoshima prefecture, southern Kyūshū, including Amami islands).
- Distribution: Kii peninsula and southwards, P5, western Kyūshū, ECP4-ECP2; tropical western Pacific.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Glyphostoma*.

G3635 *E. (E.) rubroapicata* (E. A. SMITH, 1882 in 1882-88)

Kurogashira-koshiboso-kuchikire-tsubu

- Type locality: 'Japan'.
- Distribution: western Japan Sea (Hagi, Yamaguchi prefecture FUKUDA *et al.*, 1990).
- Original genus: *Pleurotoma* (*Defrancia*).

Subgenus *Etremopa* ŌYAMA, 1953-a

Type species: *Drillia subauriformis* E. A. SMITH, 1879 (o. d.)

G3636 *E. (Etremopa) subauriformis* (E. A. SMITH, 1879-b)

Nunome-shajiku

- Type locality: 'between south-western extremity of Nippon and the island of Shikoku': 33° 45.5' N., 132° 30' E., 30 fms.
- Distribution: northwestern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5, Seto inland sea; China.
- Habitat: 10-60 m., sand.
- Original genus: *Drillia*.

G3637 *E. (Etremopa) scalarina* (DESHAYES, 1863)

(= *Glyphostoma callistum* HERVIER, 1895)

Itokake-koshiboso-kuchikire-tsubu

- Type locality: 'Bourbon' (Réunion island, Indian Ocean).
- Distribution: Izu islands, Suruga bay and southwards, Ogasawara islands (FUKUDA, 1994), P6-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2; tropical Indo-Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Pleurotoma*.

G3638 *E. (Etremopa) texta* (DUNKER, 1860)

Ami-koshiboso-kuchikire-tsubu

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).

- Distribution: northeastern Honshū (Iwate prefecture) and southwards, Ogasawara islands (FUKUDA, 1994), P9-P5, Japan Sea (Noto peninsula, J2-J1), EC5, Seto inland sea.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Defrancia*.

G3639 *E. (Etremopa) gainesii* (PILSBRY, 1895-a)

(= *Mangelia sawanensis* YOKOYAMA, 1927)

Kokoa-koshiboso-kuchikire-tsubu (= Cha-iro-futa-nashi-shajiku)

- Type locality: 'Kamakura' (Sagami bay) and 'north shore of Tango' (Tango peninsula, Kyōto prefecture, Japan Sea).
- Distribution: southwestern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5, Seto inland sea.
- Habitat: intertidal to 20 m., sand.
- Original genus: '*Clathurella*'?

G3640 *E. (Etremopa) streptonotus* (PILSBRY, 1904-b)

Hoso-nunome-shajiku

- Type locality: 'Hirado, Hizen' (Hirado island, Nagasaki prefecture, western Kyūshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Niigata prefecture, J3-J1), EC5, Seto inland sea.
- Habitat: 10-100 m., sand.
- Original genus: *Drillia*.

□ Genus *Nannodiella* DALL, 1919

Type species: *Philbertia* (*Nannodiella*) *nana* DALL, 1919 (o. d.)

G3641 *N. hukuensis* NOMURA & NIINO, 1940

Fukui-katoge-kuchikire-tsubu

- Type locality: off Fukui prefecture (central Honshū, Japan Sea).
- Distribution: 'Pacific coast at 33° N., Japan Sea coast at 36° N.' (KURODA & HABE, 1952-a).

□ Genus *Glyphostoma* GABB, 1872

Type species: *Glyphostoma dentiferum* GABB, 1872 (mt.)

G3642 *G. carmen* (SOWERBY II, 1882)

Karumen-shajiku

- Type locality: 'Gotō, Hizen, Japan' (Gotō islands, western Kyūshū - former Hizen province, now Nagasaki prefecture).
- Distribution: Kii peninsula and southwards, P5, EC5, East China Sea.
- Habitat: 10-100 m., sand.
- Original genus: *Drillia*.

Subfamily OENOPOTINAE BOGDANOV, 1987

(Refs.: Bogdanov & Ito, 1992)

□ Genus *Curtitoma* BARTSCH, 1941-a

Type species: *Curtitoma hecuba* BARTSCH, 1941 (o. d.; =

*Bela incisula* VERRILL, 1882)

( = *Nematoma* BARTSCH, 1941-a)

G3643 *C. incisula* (VERRILL, 1882)

( = *C. hecuba* BARTSCH, 1941-a)

- Type locality: off New England, northeastern USA.
- Distribution: Japan Sea (SHIMIZU, 1971); Arctic, northern Atlantic.
- Original genus: *Bela*.

G3644 *C. exquisita* (YOKOYAMA, 1926)

- Type locality: Sado island, Japan Sea (fossil).
- Distribution: Japan Sea (off Tajima K. ITŌ, 1967; Sado island, 300-400 m., sandy mud).
- Original genus: *Bela*.

G3645 *C. microvoluta* (OKUTANI, 1964-b)

- Type locality: 'Sōyō-Maru' sta. T29, Sagami bay, central Honshū: 35° 05.5' N., 139° 29.3' E., 710-770 m.
- Distribution: central Honshū (Sagami bay, 470-1350 m.; Izu islands 620-1350 m. OKUTANI, 1964-b; 1966; 1968), Kumano-nada (off eastern Kii peninsula).
- Original genus: *Nematoma*.

G3646 *C. violacea* (MIGHELS & ADAMS, 1842)

( = *Pleurotoma bicarinata* COUTHOUY, 1838 non WOOD, 1828 in 1818-28; *Pleurotoma violacea* MIGHELS & ADAMS, 1841 *nom. nud.*; *Defrancia livida* MÖLLER, 1842; *Bela violacea* var. *cylindracea* MÖRCH, 1868; *Bela bicarinata* var. *rufescens* G. O. SARS, 1878; *Bela bicarinata* var. *geminolineata* FRIELE, 1879; *Bela minuscularia* LOCARD, 1897; *Nematoma* sp. *sensu* ITŌ, 1985; *Propebela* sp. 9 *sensu* ITŌ, 1985; *Nematoma* sp. 3 *sensu* ITŌ *et al.*, 1986; '*Benthomangelia?*' sp.' *sensu* ITŌ, 1989)

- Type locality: Casco Bay, Maine (eastern USA).
- Distribution: southeastern Japan Sea (off Awashima to western Noto peninsula, 200-300 m. BOGDANOV & ITŌ, 1992), northern Pacific (Okhotsk Sea, Bering Sea, Arctic circle), eastern USA.
- Original genus: *Pleurotoma*.

G3647 *C. becklemishevi* BOGDANOV, 1989

( = *Nematoma hokkaidoensis sensu* OKUTANI, 1964; 1966 non BARTSCH, 1941; *Propebela* sp. 3 *sensu* ITŌ *et al.*, 1986)

- Type locality: Okhotsk Sea: 51° 10' N., 154° 17' E.
- Distribution: Sagami bay (OKUTANI, 1966), Japan Sea (off Niigata prefecture to Noto peninsula, 200-300 m. BOGDANOV & ITŌ, 1992), Okhotsk Sea to northern Pacific.

G3648 *C. trevilliania* (TURTON, 1834)

( = *Bela decussata* var. *finmarchia* FRIELE, 1886; *Propebela* sp. 1 *sensu* ITŌ, 1985)

- Type locality: Scarborough, northern England.

- Distribution: Japan Sea (off Niigata prefecture to western Noto peninsula, 318 m. BOGDANOV & ITŌ, 1992); northern Pacific, Arctic Ocean, northern Atlantic.

G3649 *C. niigataensis* BOGDANOV & ITŌ, 1992

- Type locality: Japan Sea (off Awashima, 200-300 m.; off Suitsu, 200 m.)
- Distribution: recorded only from type localities.

G3650 *C. lawrenciana* (DALL, 1919-b)

( = *Bela tenuilirata* KRAUSE, 1886 non DALL, 1871)

- Type locality: Point Belcher, Arctic Ocean.
- Distribution: Japan Sea, southern Kuril islands; Kamchatka, Bering Sea, Chukchi Sea, Arctic Ocean (BOGDANOV, 1990).
- Original genus: *Lora*.

□ Genus *Venustoma* BARTSCH, 1941-a

Type species: *Venustoma harucoa* BARTSCH, 1941 (o. d.; = *Bela lacunosa* GOULD, 1860)

G3651 *V. lacunosa* (GOULD, 1860 in 1859-61)

( = *V. harucoa* BARTSCH, 1941-a)

Shiro-nunome-tsubu

- Type locality: Hong Kong.
- Distribution: northern Honshū (off Miyagi prefecture), Mie prefecture (Shiroko; Aritaki; Toshi, 20-30 m. MATSUMOTO, 1979), Seto inland sea, northwestern Kyūshū and northwards, Japan Sea (Noto peninsula ITŌ *et al.*, 1986; Sado island; central to northern Niigata prefecture), Hong Kong.
- Habitat: 20-260 m., sand.
- Original genus: *Bela*.

□ Genus *Obesotoma* BARTSCH, 1941-a

Type species: *Obesotoma japonica* BARTSCH, 1941 (o. d.; = *Bela tenuilirata* DALL, 1871)

G3652 *O. tenuilirata* (DALL, 1871-b)

( = *O. japonica* BARTSCH, 1941-a; *O. hanazakiensis sensu* ITŌ, 1967 non HABE, 1958)

Cha-iro-futa-manji

- Type locality: Fort St. Michael, Norton Sound, Alaska.
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, P9-P10, OP, Kuril islands, Okhotsk Sea; Bering Sea, Alaska.
- Habitat: 40-160 m., sandy mud.
- Original genus: '*Bela?*' (as ssp. of *B. laevigata*).

G3653 *O. uchidai* HABE, 1958-j

Uchida-futa-manji

- Type locality: Akkeshi bay, Hokkaidō.
- Distribution: southern Hokkaidō and northwards, P10-OP, Kuril islands.

G3654 *O. simplex* (MIDDENDORFF, 1849 in 1847-49)

( = *Bela laevigata* DALL, 1871; *Obesotoma* sp. *sensu* ITŌ,

1967)

Azuki-iro-futa-manji

- Type locality: 'Die Suedkuesten des Ochotskischen Meeres' (southern coasts of the Okhotsk Sea).
- Distribution: Japan Sea (Noto peninsula and northwards, J3-J5), OP, Kuril Islands, Okhotsk Sea; Bering Sea, Alaska.
- Habitat: 200-320 m.
- Original genus: *Pleurotoma*.

G3655 *O. schantarica* (MIDDENDORFF, 1849 in 1847-49)

Niku-iro-futa-manji

- Type locality: southern coasts of the Okhotsk Sea and Shantar island (Kharbarovsk region, Russia).
- Distribution: northeastern Honshū (Miyagi prefecture) and northwards, P8-P10, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J5), OP, Kuril islands, Okhotsk Sea.
- Habitat: 50-350 m., mud, coarse sand and stones.
- Original genus: *Pleurotoma*.

G3656 *O. oyashio* SHIKAMA, 1962-a

Usu-beni-harabuto-kudamaki

- Type locality: 'East of Chōshi' (Chiba prefecture, central Honshū); 200-350 fms.
- Distribution: Kashima-nada (off Ibaraki prefecture) and northwards, P8-P9.
- Habitat: 400-700 m., sand.

G3657 *O. robusta* (PACKARD, 1867)

(= *Propebela* sp. 2 sensu ITŌ, 1985; *Propebela* sp. 4 sensu ITŌ, 1989; *P. venusta* sensu ITŌ, 1989)

- Type locality: Labrador, northeastern USA.
- Distribution: Japan Sea (Wakasa bay to Sado island, Awashima, 200-300 m. BOGDANOV & ITŌ, 1992); Sakhalin, Kamchatka peninsula, northern Pacific, Atlantic Ocean.
- Original genus: *Bela*.

G3658 *O. solida* (DALL, 1887)

(= *Turritoma mitrata* sensu ITŌ, 1985; *T. candida* sensu ITŌ et al., 1986; *Obestoma schantarica* sensu ITŌ et al., 1986; *O. simplex* sensu ITŌ et al., 1986)

- Type locality: Kyska Harbour, Alaska.
- Distribution: Japan Sea (Wakasa bay, Fukui prefecture to Awashima, 200-300 m. BOGDANOV & ITŌ, 1992); northern Pacific.
- Original genus: *Bela*.

G3659 *O. hokkaidoensis* (BARTSCH, 1941-a)

(= *Asperdaphne* sp. sensu ITŌ, 1985; *Propebela* sp. 4 sensu ITŌ et al., 1986)

Midori-futa-manji

- Type locality: 'Albatross' sta. 5036, southeast off Hokkaidō, 464 fms.

- Distribution: Sagami bay (1390-1510 m. OKUTANI, 1968), northeastern Honshū (Iwate prefecture) and northwards, P9-P10, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J4 BOGDANOV & ITŌ, 1992); Sakhalin.

- Habitat: 200-400 m., sandy mud.

- Original genus: *Nematoma*.

G3660 *O. pulcherrima* BOGDANOV & ITŌ, 1992

- Type locality: Japan Sea off western Noto peninsula: 37° 05.5' N., 136° 25.0' E., 205 m.

- Distribution: recorded only from type locality.

G3661 *O. okutanii* BOGDANOV & ITŌ, 1992

- Type locality: Japan Sea off Ishikawa prefecture: 36° 57.0' N., 136° 21.9' E., 255 m.

- Distribution: recorded only from type locality.

G3662 *O. cymata* (DALL, 1919-b)

- Type locality: Nunivak island, Bering Sea to Shumagin islands, Alaska.

- Distribution: 'Pacific coast, 36°-60° N.' (KURODA & HABE, 1952-a); Bering Sea, Alaska.

- Original genus: *Lora* (as ssp. of *L. tenuilirata*).

G3663 *O. tomiyamaensis* (ŌTSUKA, 1949)

- Type locality: Sea-cliff at Tomiyama, Chiba prefecture (central Honshū) (fossil).

- Distribution: Moneron island (northern Japan Sea, west off southern Sakhalin), 'Japan Sea' (BOGDANOV, 1990).

- Original genus: '*Lora*'?

G3664 *O. jessoensis* (E. A. SMITH, 1875-b)

- Type locality: south-east of Yesso (Hokkaidō): 42° 58' N., 104° 24' E., 43 fms.

- Distribution: 'Pacific coast at 43° N.' (KURODA & HABE, 1952-a).

- Original genus: *Bela*.

□ Genus *Oenopota* MÖRCH, 1852

Type species: *Fusus pleurotomarius* COUTHOUY, 1838 (s. d. DALL, 1919)

(= *Bela* auct. non GRAY, 1847; *Lora* auct. non GRAY, 1847; *Turritomella* BARTSCH, 1941; *Turritoma* BARTSCH, 1941; *Belalora* POWELL, 1951; *Lorabela* POWELL, 1951)

G3665 *Oe. okudai* HABE, 1958-j

Okuda-futa-manji

- Type locality: Akkeshi bay, Hokkaidō.

- Distribution: Japan Sea (Wakasa bay and northwards, Noto peninsula, J2-J4, 90-335 m.), southeastern Hokkaidō (intertidal to 10 m., sand).

G3666 *Oe. hanazakiensis* HABE, 1958-j

Hanazaki-futa-manji (= Nami-jiwa-futa-manji)

- Type locality: Hanazaki (Nemuro peninsula, eastern

Hokkaidō).

- Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay) and northwards, southeastern Hokkaidō, P9-P10.
- Habitat: 200-500 m., mud.

**G3667 *Oe. candida* (YOKOYAMA, 1926)**

(= *Turritoma exquisita* BARTSCH, 1941-a; *Obestoma* sp. sensu ITŌ, 1967; *Propebela* sp. 1 sensu ITŌ, 1989)

Ko-oshi-futa-manji (= Tōgata-futa-manji)

- Type locality: Sado island, Japan Sea (fossil).
- Distribution: Suruga bay and northwards, P6, southern Hokkaidō, P10, Japan Sea (Sado island and northwards; off central Niigata prefecture; Yamagata prefecture).
- Habitat: 100-350 m., mud.
- Original genus: *Bela*.

**G3668 *Oe. sagamiana* OKUTANI & FUJIKURA, 1992**  
Sagami-manji

- Type locality: off Hatsushima islet, western Sagami bay, central Honshū: 35° 00.0' N., 139° 13.5' E., 1170 m.
- Distribution: recorded only from type locality.
- Habitat: among *Calyptogena* communities.

**G3669 *Oe. ogasawarana* OKUTANI, FUJIKURA & SASAKI, 1993**

- Type locality: Kaikata seamount, Ogasawara islands: 26° 42.3' N., 141° 04.6' E., 450 m.
- Distribution: recorded only from type locality.

**G3670 *Oe. cancellata* (MIGHELS & ADAMS, 1842)**

(= *Oe. declivis* MACPHERSON, 1971 non LOVÉN, 1846; *Propebela* sp. 3, 6 & 8 sensu ITŌ, 1985; *Propebela* sp. 1 sensu ITŌ et al., 1986; *Obestoma hanazakiensis* sensu ITŌ et al., 1986 non HABE, 1958)

- Type locality: Casco Bay, Maine (northeastern USA).
- Distribution: Japan Sea (off Niigata prefecture to western Noto peninsula, 200-300 m. BOGDANOV & ITŌ, 1992); northern Pacific, northwestern Atlantic Ocean.
- Original genus: *Fusus*.

**G3671 *Oe. kinkasanensis* GOLIKOV & GULBIN, 1977**

- Type locality: none designated; a former Bartsch MS name which implies as a locality the Kinkasan district, (Miyagi prefecture, northeastern Honshū).
- Distribution: 'bathyal of Japanese Islands and shelf of southern Kuril islands; Iturup island. 78-486 m.' (GOLIKOV & GULBIN, 1977)

**G3672 *Oe. valentina* GOLIKOV & GULBIN, 1977**

- Type locality: none designated; records given in text are from the Kuril islands (Shikotan; Zelenyi; Kunashir; Paramushir)
- Distribution: 'southern shores of Chukchi peninsula to southern Kuril islands' (GOLIKOV & GULBIN, 1977).

**G3673 *Oe. triphera* (GOLIKOV & SCARLATO, 1967)**

- Type locality: 'Japan Sea'.
- Distribution: northern Japan Sea, Kuril islands and northwards, northern USA (GOLIKOV & GULBIN, 1977).

**G3674 *Oe. cingulata* GOLIKOV & GULBIN, 1977**

- Type locality: off Shikotan, southern Kuril islands; 7-8 m.
- Distribution: Kuril islands and northwards, Arctic (GOLIKOV & GULBIN, 1977).

**G3675 *Oe. kazusensis* (NOMURA, 1940)**

- Type locality: Pacific coast off Chiba prefecture, central Honshū (dredged by S.S. 'Fusa-maru').
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

**Notes:** originally in *Lora*; placement here is provisional, as original figure is very poor and type material has not been examined by the present authors.

**G3676 *Oe. admetoides* (OKUTANI, 1968)**

- Type locality: 'Sōyō-Marū' sta. B2, off Miyake island, Izu islands: 34° 22.2' N., 139° 41.9' E., 1080-1205 m.
- Distribution: Sagami bay (1395 m. OKUTANI, 1968), type locality.
- Original genus: *Ōtomella*.

**G3677 *Oe. harpa* (DALL, 1885)**

- Type locality: Nunivak island, Alaska; 10 miles west of Point Franklin.
- Distribution: Japan Sea to Arctic, Alaska (BOGDANOV, 1990).
- Original genus: *Bela*.

**G3678 *Oe. inequita* (DALL, 1919-b)**

- Type locality: 'Plover bay, Bering Sea' (Bering strait, Chukchi (Chukotsk) peninsula, eastern Siberia), 'S. to Boca de Quadra, Alaska'
- Distribution: Japan Sea; Bering Sea, Alaska, Arctic Ocean, Norway, Barentz Sea (BOGDANOV, 1990; GOLIKOV, 1995).
- Original genus: *Lora*.

**G3679 *Oe. pavlova* (DALL, 1919-b)**

- Type locality: 'Albatross' sta. 3607, off Pribilof islands, Bering Sea.
- Distribution: Japan Sea; Bering Sea, Sakhalin (BOGDANOV, 1990).
- Original genus: *Lora*.

**G3680 *Oe. kurilensis* BOGDANOV, 1989**

- Type locality: Okhotsk Sea: 46° 59' N., 152° 11' E., 11 m.
- Distribution: southern and northern Kuril islands (BOGDANOV, 1990).

**G3681 *Oe. elongata* BOGDANOV, 1989**

- Type locality: Japan Sea: 42° 17' N., 131° 11' E., 1076-1400 m.



- Distribution: recorded only from type locality.

□ Genus *Oenopotella* SYSOEV, 1988

Type species: *Oenopotella ultraabyssalis* SYSOEV, 1988 (o. d.)

G3682 *Oenopotella ultraabyssalis* SYSOEV, 1988

- Type locality: western Pacific: 49° 29' N., 158° 41' E., 7210-7230 m.
- Distribution: off northeastern Honshū (38° 11' N., 143° 56' E.); Japan trench, Kuril-Kamchatka trench, Aleutian trench.
- Habitat: abyssal. 5750-7230 m.

□ Genus *Propebela* IREDALE, 1918

Type species: *Murex turricula* MONTAGU, 1803 (o. d.)  
Subgenus *Propebela s. str.*

G3683 *P. (P.) komakahida* (ŌTSUKA, 1949)

- Type locality: Sea cliff at Tomiyama, Chiba prefecture, central Honshū (fossil).
- Distribution: Japan Sea (Sado island; central Niigata prefecture to off Awashima).
- Habitat: 200-350 m., sand.
- Original genus: '*Lora*'?

G3684 *P. (P.) hinae* OKUTANI, 1968

- Type locality: 'Sōyō-Maru' sta. B2, off Miyake island, Izu islands: 34° 22.2' N., 139° 41.9' E., 1080-1205 m.
- Distribution: recorded only from type locality.

G3685 *P. (P.) nobilis* (MÖLLER, 1842)

- (= *Bela nobilis* var. *brevispina* LOYNING, 1931; *Rhodopetoma erosa* sensu ITŌ, 1967 non SCHRENCK, 1862; *Turritoma venusta* sensu ITŌ, 1985 non OKUTANI, 1964; *Turritoma candida* sensu ITŌ et al., 1986)
- Type locality: Greenland.
  - Distribution: Japan Sea (western Noto peninsula to Awashima, 200-300 m. BOGDANOV & ITŌ, 1992); northern Pacific, Arctic Ocean, northern Atlantic. Habitat 7-1710 m.
  - Original genus: *Defrancia*.

G3686 *P. (P.) assimilis* (G. O. SARS, 1878)

- (= *Bela turricula* TRYON, 1884 non MONTAGU, 1803 in 1803-08; *Bela rugulata* var. *assimilis* FRIELE, 1886; *Bela rugata* var. *schneideri* YOKOYAMA, 1922; *Bela candida* var. *angulata* YOKOYAMA, 1926; *P. (Turritoma) yokoyamai* TAKI & ŌYAMA, 1954; *Oenopota scalaris* BOUCHET & WARÉN, 1980 non MÖLLER, 1842)
- Type locality: north Atlantic.
  - Distribution: Izu islands (off Miyake island, 1230-1350 m. OKUTANI, 1964-b; off Izu-Ōshima, 620-720 m. OKUTANI, 1966), Sagami bay (OKUTANI, 1966), Japan Sea (Sado island to Awashima, 250-300 m. BOGDANOV & ITŌ, 1992), Okhotsk Sea; Bering Sea, north Atlantic.

G3687 *P. (P.?) siogamaensis* (NOMURA & ZINBO, 1940)

- Shiogama-manji
- Type locality: Matsushima, Miyagi prefecture, northeastern Honshū.
  - Distribution: Miyagi prefecture and northwards, Iwate prefecture (Ōtsuchi bay).
  - Original genus: *Lora*.

G3688 *P. (P.?) nivea* OKUTANI, 1968

- Type locality: 'Sōyō-Maru' sta. B2, off Miyake island, Izu islands: 34° 22.2' N., 139° 41.9' E., 1080-1205 m.
- Distribution: recorded only from type locality.

G2689 *P. (P.) venusta* OKUTANI, 1964-b

- Shiro-koshi-futa-manji
- Type locality: 'Sōyō-Maru' sta. 86A, Enshū-nada, off Shizuoka prefecture, central Honshū: 34° 25.7' N., 137° 58.5' E., 620 m.
  - Distribution: Suruga bay and southwards, Enshū-nada.
  - Habitat: 500-650 m., mud.

G3690 *P. (P.) cassis* BOGDANOV, 1989

- Type locality: Shikotan island (southern Kuril islands).
- Distribution: recorded only from type locality.

Subgenus *Canetoma* BARTSCH, 1941-a

Type species: *Canetoma tersa* BARTSCH, 1941 (o. d.) (= *Funitoma* BARTSCH, 1941-a; *Cestoma* BARTSCH, 1941-a)

G3691 *P. (C.) exarata tersa* (BARTSCH, 1941-a)

- Type locality: Japan Sea.
- Distribution: Japan Sea (Wakasa bay, 300 m. BOGDANOV & ITŌ, 1992); northern Pacific.
- Original genus: *Oenopota*.

G3692 *P. (C.) areta* (BARTSCH, 1941-a)

- Type locality: Japan Sea, 137 fms.
- Distribution: Japan Sea (Wakasa bay, 80-200 m., sand K. ITŌ, 1990).
- Original genus: *Funitoma*.

G3693 *P. (C.) delicata* (OKUTANI, 1964-b)

- Type locality: 'Sōyō-Maru' sta. T28, Sagami bay, central Honshū: 35° 03.6' N., 139° 22.4' E., 1320-1400 m.
- Distribution: Sagami bay (1330-1520 m. OKUTANI, 1966; 1968).
- Original genus: *Funitoma*.

G3694 *P. (C.) eurybia* (BARTSCH, 1941-a)

- Type locality: 'Soujet Harbor' (Japan Sea coast of Russia).
- Distribution: Sagami bay (620-780 m. OKUTANI, 1964-b), Japan Sea (off Tajima, Hyōgo prefecture; 350-400 m.).
- Original genus: *Funitoma* (*Cestoma*).

G3695 *P. (C.?) kyurokusimana* (NOMURA & ZINBO, 1940)

- Type locality: Kyurokushima (island), northern Japan Sea (east off Aomori prefecture, northern Honshū).
- Distribution: 'Japan Sea at 41° N'. (KURODA & HABE, 1952-a)
- Original genus: *Lora*.

G3696 *P. (C.) viridula* (MÖLLER, 1842)

(= *Bela arctica* A. ADAMS, 1855; *Bela kobelti* VERKRÜZEN, 1875; *Propebela* sp. 1 *sensu* ITŌ, 1985; *Propebela* sp. 2 *sensu* ITŌ *et al.*, 1986; *Propebela* sp. 3, 6 *sensu* ITŌ, 1989)

- Type locality: Greenland.
- Distribution: Japan Sea (western Noto peninsula to Awashima, 200-300 m. BOGDANOV & ITŌ, 1992), Okhotsk Sea; Bering Sea, northern Pacific, northern Atlantic, Arctic Ocean.
- Original genus: *Defrancia*.

G3697 *P. (C.) concinnula* (VERRILL, 1882)

(= *Bela exarata* VERRILL, 1880 *non* MÖLLER, 1842; *B. concinnula* var. *acuta* VERRILL, 1882; *Propebela* sp. 7 *sensu* ITŌ, 1985; *P. komakahida sensu* ITŌ, 1985 *non* ŌTSUKA, 1949)

- Type locality: coast of western Kamchatka peninsula.
- Distribution: Japan Sea (off Awashima, 225 m. BOGDANOV & ITŌ, 1992); Bering Sea, Kamchatka peninsula, northern Pacific, northwestern USA, northern Atlantic.
- Original genus: *Bela*.

G3698 *P. (C.) mitrata* (DALL, 1919-B)

- Type locality: Port Clarence (Bering strait) to Shumagin islands (Alaska).
- Distribution: Japan Sea (near Sado island; Awashima, 200-300 m. BOGDANOV & ITŌ, 1992), Kuril islands; Sakhalin, northern Pacific, Alaska.
- Original genus: *Lora*.

G3699 *P. (C.) tayensis* (NOMURA & HATAI, 1938)

- Type locality: Akita prefecture (fossil).
- Distribution: Japan Sea (off Tajima, Hyōgo prefecture; 150 m.)
- Original genus: *Lora*.

G3700 *P. (C.) margaritae* (BOGDANOV, 1985)

- Type locality: Bering island (Komandorskiye group, western Bering Sea).
- Distribution: Japan Sea, Kamchatka, Bering Sea (BOGDANOV, 1990).
- Original genus: *Oenopota*.

G3701 *P. (C.) marinae* BOGDANOV, 1989

- Type locality: Okhotsk Sea: 49° 24' N., 148° 46' E., 1076 m.
- Distribution: Japan Sea, southern Kuril islands (off Shikotan), Okhotsk Sea (BOGDANOV, 1990).

□ Genus *Granotoma* BARTSCH, 1941-a

Type species: *Bela krausei* DALL, 1887 (o. d.)

G3702 *G. krausei* (DALL, 1887)

- Type locality: Port Etches, Alaska.
- Distribution: Japan Sea to Bering Sea (BOGDANOV, 1990).
- Original genus: *Bela*.

G3703 *G. dissoluta* (YOKOYAMA, 1926)

- Type locality: Sado island, Japan Sea (fossil).
- Distribution: 'Pacific coast, 39° N., Japan Sea coast 41° N.' (KURODA & HABE, 1952-a).
- Original genus: *Bela*.

G3704 *G. albrechti* (KRAUSE, 1885)

(= *Nematoma dissoluta sensu* ITŌ, 1985 *non* YOKOYAMA, 1926)

- Type locality: 'Plover Bay' (Bering strait, Chukchi (Chukotsk) peninsula, eastern Siberia).
- Distribution: Japan Sea (western Noto peninsula to Sado island and Awashima, 200-300 m. BOGDANOV & ITŌ, 1992), Kuril islands, Okhotsk Sea; Bering Sea, northern Pacific.
- Original genus: *Bela*.

G3705 *G. raduga* (BOGDANOV, 1985)

- Type locality: Russkaya bay, eastern Kamchatka; 115 m.
- Distribution: Japan Sea (western Noto peninsula, 250-300 m. BOGDANOV & ITŌ, 1992), Okhotsk Sea; Sakhalin to Bering Sea.
- Original genus: *Oenopota*.

Subfamily MANGELIINAE FISCHER, 1883

(Refs.: Kilburn, 1992-b)

□ Genus *Citharomangelia* KILBURN, 1992-b

Type species: *Citharomangelia africana* SOWERBY III, 1903 (o. d.)

G3706 *C. quadrilineata* (SOWERBY III, 1913-b)

- Yosuji-kototsubu
- Type locality: 'Japan'.
  - Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2; Indo-Pacific.
  - Habitat: intertidal to 20 m., sand.
  - Original genus: *Cythara*.

G3707 *C. richardi* (CROSSE, 1869-a)

(= *Mangilia cinnamomea peraffinis* PILSBRY, 1904)

- Yakata-kototsubu
- Type locality: 'Noumea, Novae Caledoniae'.
  - Distribution: Japan Sea (northern Yamaguchi prefecture and westwards), northwestern Kyūshū (Genkai-nada; Hirado island; Kushikino); New Caledonia.
  - Habitat: intertidal to 20 m., sand.

□ Genus *Cytharopsis* A. ADAMS, 1865-a

Type species: *Cytharopsis cancellata* A. ADAMS, 1865 (mt.)

G3708 *C. cancellata* A. ADAMS, 1865-a

Watazoko-kototsubu

- Type locality: 'Mino-sima' (off Mishima, Japan Sea), 63 fms.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, southwestern Shikoku (Okino-se bank, off Okinoshima TSUCHIDA, 1989), P7-P5, Japan Sea (Sado island and southwards, J3-J1), EC5, ECP4.
- Habitat: 50-200 m., sand.

G3709 *C. radulina* KURODA & ŌYAMA in KURODA *et al.*, 1971

Yasuri-kototsubu

- Type locality: Sagami bay, central Honshū.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P6, Seto inland sea, Japan Sea (southern Niigata prefecture (ITŌ, 1989) and southwards, J3-J1).
- Habitat: 40-100 m., sand.

G3710 *C. kyushuensis* (SHUTŌ, 1965)

Otohime-kototsubu

- Type locality: sea cliffs of northeastern Moeshima island, Kagoshima bay (fossil).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and westwards, Sagami bay, Enshū-nada, off Kii peninsula, Japan Sea (Wakasa bay).
- Habitat: 100-200 m., sand.
- Original genus: *Brachycythara*.

G3711 *C. butonensis* (SCHEPMAN, 1913 in 1908-13)

Tsuya-kototsubu

- Type locality: 'Siboga' sta. 204, 'between islands of Wowoni and Buton, northern entrance of Buton-strait. 75-94 m. Sand with dead shells'. (Between Wowoni and Butung islands, southeastern Sulawesi, Indonesia).
- Distribution: Sagami bay (KURODA *et al.*, 1971); type locality.
- Habitat: 50-100 m., sand and shells.
- Original genus: *Mangilia*.

□ Genus *Hemicythara* KURODA & ŌYAMA in KURODA *et al.*, 1971

Type species: *Pleurotoma octangulata* DUNKER, 1860 (o. d.)

G3712 *H. octangulata* (DUNKER, 1860)

Hakkaku-futa-nashi-shajiku

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2.
- Habitat: intertidal to 100 m., sand, gravel and rubble.

- Original genus: *Pleurotoma*.

G3713 *H. angicostata* (REEVE, 1845 in 1843-65)

Itokake-manji

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, western Pacific.
- Habitat: intertidal to 20 m., rubble.
- Original genus: *Pleurotoma*.

□ Genus *Eucithara* FISCHER, 1883

Type species: *Mangelia stromboides* REEVE, 1846 (mt.)

G3714 *E. stromboides* (REEVE, 1846 in 1843-65)

(= *Cythara delacouriana* CROSSE, 1869)

Hishigata-kototsubu

- Type locality: Island of Bohol, Philippines.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Mangelia*.

G3715 *E. bascauda* (MELVILL & STANDEN, 1896)

Kago-kototsubu (= Kagome-kototsubu)

- Type locality: Loyalty islands (New Caledonia).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, tropical Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Mangilia*.

G3716 *E. isseli* (NEVILL, 1875)

Harabuto-kototsubu

- Type locality: New Caledonia.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Columbella*.

G3717 *E. vexillum* (REEVE, 1846 in 1843-65)

Togari-kototsubu

- Type locality: Ilo Ilo, Isle of Panay, Philippines.
- Distribution: Kii peninsula and southwards, P5, Seto inland sea, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Mangilia*.

G3718 *E. coronata* (HINDS, 1843-g)

(= *Mangelia tenebrosa* REEVE, 1846; *M. zonata* REEVE, 1846; *M. semizonata* HERVIER, 1897)

Kazari-kototsubu (= Han-obi-kototsubu; Han-obi-manji)

- Type locality: Straits of Macassar.
- Distribution: Kii peninsula and southwards, P5, Ogasawara islands (FUKUDA, 1994), Japan Sea (J1), EC5, Seto inland sea, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific.

- Habitat: subtidal to 20 m., sand.
- Original genus: *Mangelia*.

G3719 *E. marginelloides* (REEVE, 1846 in 1843-65)  
(= *Cythara citharoedus* HOLTEN *sensu* KURODA & HABE, 1952-a; ŌYAMA, 1961)

Kototsubu

- Type locality: 'Island of Burias, Philippines (found in sandy mud at the depth of seven fathoms)'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, northern Australia, Indo-Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Mangelia*.

G3720 *E. gibbosa* (REEVE, 1846 in 1843-65)

Futo-kototsubu

- Type locality: 'Island of Ticao, Philippines (found on the reefs)'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2, Ogasawara islands (FUKUDA, 1994); Philippines, Indo-Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Mangelia*.

G3721 *E. funebris* (REEVE, 1846 in 1843-65)

Nemuri-kototsubu

- Type locality: 'Island of Ticao (found under stones at low water)' (Philippines).
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Mangelia*.

G3722 *E. lyrica* (REEVE, 1846 in 1843-65)

(= *Mangelia cylindrica* REEVE, 1846 in 1843-65)

Itokake-kototsubu

- Type locality: 'Isle of Burias, Philippine Islands (found among coarse sand at the depth of seven fathoms)'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, tropical Indo-western Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Mangelia*.

G3723 *E. angela* (ADAMS & ANGAS, 1864-b)

Cha-iro-kototsubu

- Type locality: Woodlark island, Papua New Guinea.
- Distribution: Amami islands and southwards, ECP3-ECP2; Indo-Pacific, Australia.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Cithara*.

G3724 *E. fusiformis* (REEVE, 1846 in 1843-65)

Tsumugata-kototsubu

- Type locality: 'Isle of Corrigidor (Corregidor), Philippines (found among coarse sand at the depth of ten fathoms)'.
- Distribution: Kii peninsula and southwards, Seto inland

sea, P5, EC5, ECP4-ECP2, P2; Philippines.

- Habitat: intertidal to 20 m., rubble.
- Original genus: *Mangelia*.

G3725 *E. albivestis* (PILSBRY, 1934-b)

(= *Mangelia pura* PILSBRY, 1904-b *non* GOULD, 1860)

Kubi-kazari-kototsubu

- Type locality: Hirado island (former Hizen province; now Nagasaki prefecture).
- Distribution: northwestern Kyūshū and southwards, Tosa bay, P5, Japan Sea (J1), EC5, ECP4-ECP2.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Mangelia*.

G3726 *E. guesstieri* (SOVERBIE, 1872 in SOVERBIE & MONTROUZIER, 1869-72)

(= *Mangelia reticulata* REEVE, 1846 *non* RISSO, 1826; *E. reticulata sensu* KURODA, 1928; *Cythara reticulata* REEVE *sensu* S. HIRASE, 1934; KURODA & HABE, 1952-a; ŌYAMA, 1961)

Kusa-iro-kototsubu

- Type locality: 'Ins. Art, Archipel Caledon.' (Art island, New Caledonia).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, tropical western Pacific.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Pleurotoma*.

G3727 *E. gracilis gracilis* (REEVE, 1846 in 1843-65)

Naga-hoso-kototsubu

- Type locality: 'Island of Ticao, Philippines (found under stones at low water)'.
- Distribution: Amami Ōshima (Tsuchi-hama, intertidal to 20 m., sand); Philippines.
- Original genus: *Mangelia*.

G3728 *E. gracilis striolata* (BOUGE & DAUTZENBERG, 1914)

Hoso-kototsubu

- Type locality: 'Lifou' (Loyalty islands, New Caledonia).
- Distribution: Amami islands and southwards, ECP3-ECP2; tropical Indo-Pacific.
- Habitat: 5-20 m., coarse sand and stones.
- Original genus: *Mangelia*.

G3729 *E. obesa* (REEVE, 1842 in 1841-42)

(= *Pleurotoma lineata var. sensu* SOWERBY, J. C. & G. B. I, 1821 in 1821-34; *Mangelia vittata* REEVE, 1846 *non* HINDS, 1844)

Somewake-kototsubu

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2; Indo-Pacific.
- Habitat: 5-20 m., coarse sand and stones.
- Original genus: *Pleurotoma*.

G3730 *E. caledonica* (E. A. SMITH, 1882 in 1882-88)

Sobie-kototsubu

- Type locality: New Caledonia.
- Distribution: Amami islands and southwards, ECP3-ECP2; tropical Indo-Pacific.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Pleurotoma* (*Mangilia*).

G3731 *E. eumerista* (MELVILL & STANDEN, 1895)

Meiryō-kototsubu

- Type locality: Lifu and Uvea, Loyalty islands, New Caledonia.
- Distribution: Amami islands and southwards, ECP3-ECP2; tropical Indo-Pacific.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Mangilia*.

G3732 *E. conohelicoides* (REEVE, 1846 in 1843-65)

(= *Cythara striatissima* SOWERBY, 1907)

Mukashi-tamoto-kototsubu (= *Habutae*-kototsubu)

- Type locality: 'Daleguete, Isle of Zebu (Cebu), Philippines (found under stones)'.
- Distribution: Kii peninsula and southwards, P5, western Kyūshū, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific.
- Habitat: 5-20 m., sand.
- Original genus: *Mangilia*.

G3733 *E. antillarum* (REEVE, 1846 in 1843-65)

Yūgure-kototsubu

- Type locality: 'West Indies'.
- Distribution: Okinawa islands and southwards, P2; tropical western Pacific.
- Habitat: intertidal, coarse sand and stones.
- Original genus: *Mangilia*.

G3734 *E. cinnamomea cinnamomea* (HINDS, 1843-g)

Futo-une-kototsubu

- Type locality: 'North coast of New Guinea; Straits of Macassar; Straits of Malacca. From five to twenty-two fathoms; mud'.
- Distribution: Amami islands and southwards, ECP3-ECP2; tropical Indo-Pacific.
- Habitat: 5-20 m., sand.
- Original genus: *Mangilia*.

G3735 *E. hirasei* (PILSBRY, 1904-b)

Kaido-kototsubu

- Type locality: 'Hirado, Hizen' (Hirado island, Nagasaki prefecture, western Kyūshū).
- Distribution: recorded only from type locality.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Mangilia* (*Cythara*).

G3736 *E. debilis* (PEASE, 1868-d)

(= *Cithara daedala* PEASE, 1868-a non REEVE, 1846)

Futo-ori-ire-kototsubu

- Type locality: 'Paumotus' (Polynesia).
- Distribution: Amami Ōshima (Tsuchi-hama); Polynesia.
- Original genus: *Cythara*.

G3737 *E. celebensis* (HINDS, 1843-g)

Ori-ire-kototsubu

- Type locality: 'Straits of Macassar. From ten fathoms; mud' (Indonesia).
- Distribution: 'Japan Sea to Philippines, tropical Pacific' (KOSUGE & KANAZAWA, 1994).
- Original genus: *Mangilia*.

G3738 *E. anglostoma* (PEASE, 1868-d)

(= *Pleurotoma triticea sensu* REEVE, 1843 in 1843-65 non KIENER, 1839)

Kuchi-boso-kototsubu

- Type locality: 'Indian Ocean' (Reeve).
- Distribution: Ogasawara islands (FUKUDA, 1994); Polynesia, Hawaii, Indian ocean.
- Original genus: *Cythara*.

□ Genus *Paraspirotropis* SYSOEV & KANTOR, 1984

Type species: *Pleurotomella simplicissima* DALL, 1907 (o. d.)

G3739 *P. simplicissima* (DALL, 1907)

- Type locality: USFC sta. 5050, Okhotsk Sea northeast of Yesso (Hokkaidō); 1800 fms.
- Distribution: 'Japan Sea coast, 46° N.' (KURODA & HABE, 1952-a).
- Original genus: *Pleurotomella*.

□ Genus *Lioglyphostomella* SHUTŌ, 1970

Type species: *Drillia timorensis* SCHEPMAN, 1913 (o. d.)

**Note:** the positioning of this genus within this subfamily is provisional.

G3740 *L. timorensis* (SCHEPMAN, 1913 in 1908-13)

- Type locality: 'Siboga' sta. 285, 'Near south coast of Timor. 34 m. Limit between mud and coral.' (Timor Sea off Lore, eastern Timor, Indonesia).
- Distribution: Okinawa and southwards, P2; Indonesia.
- Habitat: intertidal to 1000 m., sand.
- Original genus: *Drillia*.

□ Genus *Leiocythara* HEDLEY, 1922

Type species: *Mangilia infulata* HEDLEY, 1909 (o. d.)

G3741 *L. longispira* (E. A. SMITH, 1879)

(= *Mangilia* (*Cythara*) *rugosolabiata* YOKOYAMA, 1922)

Yase-shajiku (= *Morishima*-kototsubu)

- Type locality: east of Gotō islands (western Kyūshū): 32° 47' N., 129° 5' E., 46 fms.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Seto inland sea, Japan Sea (Sado island,

J3-J1), EC5.

- Habitat: 5-30 m., fine sand.
- Original genus: *Drillia*.

□ Genus *Lienardia* JOUSSEAUME, 1884-c

Type species: *Clavatula rubida* HINDS, 1844 (o. d.)

Subgenus *Lienardia s. str.*

G3742 *L. (L.) rubida* (HINDS, 1844 in 1844-45)

Rubii-futa-nashi-shajiku

- Type locality: 'New Guinea. From seven fathoms, mud'.
- Distribution: Mie prefecture (Shima peninsula MATSUMOTO, 1979) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, western Pacific.
- Habitat: intertidal under coral on reefs.
- Original genus: *Clavatula*.

G3743 *L. (L.) cremonilla* (MELVILL & STANDEN, 1895)

Arabori-kuchikire-tsubu

- Type locality: Lifu, Loyalty islands, New Caledonia.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Indo-Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Mangilia* (*Glyphostoma*).

G3744 *L. (L.) planilabrum* (REEVE, 1845 in 1843-65)

Kuri-iro-futa-nashi-shajiku

- Type locality: 'Sibonga, Island of Zebu (Cebu), Philippines (found under stones at low water)'.
- Distribution: Kii peninsula and southwards, P5, EC5, Seto inland sea, ECP4-ECP2, P2; Philippines, western Pacific.
- Habitat: intertidal, coarse sand and stones.
- Original genus: *Pleurotoma*.

G3745 *L. (L.) roseotincta* (MONTROUZIER, 1872)

Bara-iro-arabori-kuchikire-tsubu (= Bara-iro-futanashi-shajiku)

- Type locality: New Caledonia.
- Distribution: Kii peninsula and southwards, P5, Ogasawara islands (FUKUDA, 1994), EC5, ECP4-ECP2, P2; Philippines, tropical western Pacific.
- Habitat: subtidal to 20 m., coarse sand and stones.

G3746 *L. (L.) compta* (REEVE, 1845 in 1843-65)

(= *Glyphostoma nana* HERVIER, 1895; *Mangilia emmae* MELVILL & STANDEN, 1895)

Ki-iro-arabori-kuchikire-tsubu

- Type locality: 'Baclayon, Island of Bohol, Philippines (found under stones at low water on the reefs)'; additional label with syntypes in BMNH reads 'Is. of Masbate, 7 fath., sandy mud'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Pleurotoma*.

G3747 *L. (L.) apiculata* MONTROUZIER, 1861

Shirasagi-arabori-kuchikire-tsubu (= Shirasagi-arabori-kuchikire-shajiku)

- Type locality: Lifu, Loyalty islands, New Caledonia.
- Distribution: Amami islands and southwards, ECP3-ECP2; Indo-western Pacific, Seychelles to New Caledonia, Hawaii.
- Habitat: intertidal to 20 m., coarse sand and stones.

G3748 *L. (L.) lischkeana* (PILSBRY, 1904-b)

Rishike-futa-nashi-shajiku

- Type locality: Hahajima, Ogasawara islands.
- Distribution: Ogasawara islands and southwards, Izu islands, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Clathurella*.

G3749 *L. (L.) nigrocincta* (MONTROUZIER, 1872 in SOUVERBIE & MONTROUZIER, 1869-72)

(= *Pleurotoma rugosa* MIGHELS, 1845 non LEA, 1833; *L. mighelsi* IREDALE & TOMLIN, 1917)

Noshime-arabori-kuchikire-tsubu

- Type locality: Île d'Art, New Caledonia.
- Distribution: Ogasawara islands (Chichijima; Hahajima FUKUDA, 1994-a) and southwards, Bōsō peninsula, P7-P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific to Fiji.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Pleurotoma*.

G3750 *L. (L.) fuscolineata* KURODA & ŌYAMA in KURODA *et al.*, 1971

Itomaki-kuchikire-tsubu

- Type locality: Sagami bay, central Honshū.
- Distribution: off Chōshi (Chiba prefecture, central Honshū), Sagami bay, off Izu peninsula, Izu islands.
- Habitat: 20-110 m., sand.

G3751 *L. (L.) thyridota* (MELVILL & STANDEN, 1896)

Sukashi-bori-tsubu (= Tōgata-shirasagi-tsubu)

- Type locality: Loyalty islands, New Caledonia.
- Distribution: Mie prefecture (Kii-Nagashima, 20 m. MATSUMOTO, 1979) and southwards, P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2; Indo-Pacific.
- Habitat: intertidal to 140 m., coarse sand and stones.
- Original genus: *Mangilia* (*Glyphostoma*).

**Notes:** *Pleurotoma* (*Glyphostoma*) *obtusicosata* E. A. SMITH, 1882 in 1882-88 (Type locality: 'Japan, probably; variety from Persian Gulf') was cited from the 'Pacific side' by KURODA & HABE, (1952), but no other records exist. The present authors have been unable to confirm distribution of this species in Japan.

G3752 *L. (L.) piperata* (E. A. SMITH, 1882 in 1882-88)

- Type locality: Straits of Korea (coll. A. Adams).

• Distribution: 'Pacific coast, 35° N.' (KURODA & HABE, 1952-a).

• Original genus: '*Pleurotoma (Defrancia?)*'.

G3753 *L. (L.) fenestrata* (MELVILL, 1898)

• Type locality: Aden (Yemen, western Arabian Sea).

• Distribution: Ogasawara islands (Iō-jima KOIZUMI, 1993); Hawaii, Palau, Aden.

• Original genus: *Mangilia (Glyphostoma)*.

Subgenus *Acrista* HEDLEY, 1922

Type species: *Lienardia (Acrista) punctilla* HEDLEY, 1922 (o. d.)

G3754 *L. (A.) caelata* (GARRETT, 1873)

Hishigata-arabori-kuchikire

• Type locality: 'South Sea Islands'.

• Distribution: Amami islands and southwards, ECP3-ECP2, P2; western Pacific.

• Habitat: intertidal to 20 m., sand.

G3755 *L. (A.) marchei* (JOUSSEAUME, 1884-c)

Tsumajiro-arabori-kuchikire

• Type locality: 'Ocean indien'

• Distribution: Amami islands and southwards, ECP3-ECP2, P2; western Pacific.

• Habitat: intertidal to 20 m., sand.

• Original genus: *Lienardia*.

Subgenus *Hemilienardia* BÖTTGER, 1895

Type species: *Pleurotoma malletti* RÉCLUZ, 1852 (o. d.)

G3756 *L. (H.) malletti* (RÉCLUZ, 1852-b)

Momo-iro-futa-nashi-shajiku

• Type locality: 'l'Océan Pacifique'.

• Distribution: Kii peninsula and southwards, P5, Ogasawara islands (FUKUDA, 1994), EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific.

• Habitat: intertidal to 20 m., coarse sand and stones.

• Original genus: *Pleurotoma (Defrancia)*.

G3757 *L. (H.) rubicunda* (GOULD, 1860 in 1859-61)

(= *Cithara purpurascens* DUNKER, 1871)

Hime-momo-iro-futa-nashi-shajiku

• Type locality: 'Loo Choo' (Okinawa).

• Distribution: Mie prefecture (Shima peninsula MATSUMOTO, 1979) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific.

• Habitat: intertidal to 20 m., coarse sand and stones.

• Original genus: *Clathrella*.

□ Genus *Pseudoetrema* ŌYAMA, 1953-a

Type species: *Drillia fortilirata* E. A. SMITH, 1879 (o. d.)

G3758 *P. fortilirata* (E. A. SMITH, 1879-b)

Hoso-shajiku (= Sujibuto-nunome-shajiku)

• Type locality: 'Between Nippon and Is. of Shikoku, Japan: 33° 45' 30" N., 132° 30' E., 30 fms.'

• Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Seto inland sea, Japan Sea (off Yamagata prefecture, J3-J1), EC5..

• Habitat: 10-50 m., sand.

• Original genus: *Drillia*.

□ Genus *Macteola* HEDLEY, 1918

Type species: *Purpura (Cronia) anomala* ANGAS, 1877 (o. d.)

G3759 *M. interrupta* (REEVE, 1846 in 1843-65)

(= *Columbella segesta* CHENU, 1850; *Daphnella bella* PEASE, 1860; *Pleurotoma gemmulata* DESHAYES, 1863; *Macteola cinctura* HEDLEY, 1922; *Turridrupa astricta sensu* KURODA & HABE, 1952-a)

Sashiko-tsubu

• Type locality: 'Island of Ticao, Philippines (found on the sands)'.

• Distribution: Kii peninsula and southwards, P5, Ogasawara islands (FUKUDA, 1994), EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific.

• Habitat: intertidal, sand and coral.

• Original genus: *Mangelia*.

G3760 *M. theskela* (MELVILL & STANDEN, 1896)

Hito-suji-sashiko-tsubu

• Type locality: Lifu, Loyalty islands, New Caledonia.

• Distribution: Amami islands and southwards, Okinawa islands; New Caledonia.

• Habitat: intertidal to 20 m., sand.

• Original genus: *Mangilia (Glyphostoma)*.

□ Genus *Mangelia* RISSO, 1826

Type species: *Mangelia striolata* RISSO, 1826 (s. d. HERRMANNSEN, 1852; = *Murex attenuatus* MONTAGU, 1803)

(= *Mangilia auct.*; *Villiersia* LOCARD, 1886; *Villiersiella* MONTEROSATO, 1890; *Vielliersia* MONTEROSATO, 1894 err., *non* D'ORBIGNY, 1837)

G3761 *M. hiradoensis* (MAKIYAMA, 1927)

• Type locality: Hirado island, Nagasaki prefecture, western Kyūshū.

• Distribution: 'Pacific coast at 33° N.' (KURODA & HABE, 1952-a).

• Original genus: *Cythereella*.

G3762 *M. lischkei* (E. A. SMITH, 1888-b)

• Type locality: 'Japan'.

• Distribution: 'Pacific coast (?)' (KURODA & HABE, 1952-a).

• Original genus: *Pleurotoma*.

G3763 *M. modica* (E. A. SMITH, 1882 in 1882-88)

• Type locality: 'Japan?'.

• Distribution: 'Pacific coast' (?) (KURODA & HABE,

1952-a).

- Original genus: *Pleurotoma*.

**G3764 *M. subgracilentia* NOMURA, 1940**

- Type locality: Pacific coast, off Chiba prefecture, central Honshū (dredged by S.S. 'Fusa-maru').
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABA, 1952-a).

**G3765 *M. albicincta* GOULD, 1860 in 1859-60**

- Type locality: 'Loo Choo Seas' (off Okinawa islands).
- Distribution: Okinawa (KURODA, 1960-c).

**G3766 *M. lutea* GOULD, 1860 in 1859-60**

- Type locality: 'Loo Choo Seas' (off Okinawa islands).
- Distribution: Okinawa (KURODA, 1960-c).

**G3767 *M. concinna* GOULD, 1860 in 1859-60**

- Type locality: 'Loo Choo Seas' (off Okinawa islands).
- Distribution: Okinawa (KURODA, 1960-c).

□ Genus *Guraleus* HEDLEY, 1918

Type species: *Mangelia picta* ADAMS & ANGAS, 1864 (o. d.)

**G3768 *G. deshayesii* (DUNKER, 1860)**

(= *Mangelia rikuzenica* NOMURA & ZINBO, 1940)

Susocha-manji (= Susocha-nunome-tsubu)

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Ogasawara islands (FUKUDA, 1995), Seto inland sea (FUKUDA et al., 1990), Japan Sea (Sado island, J3-J1), EC5, ECP4.
- Habitat: 5-50 m., sand.
- Original genus: *Mangilia* (*Pleurotoma*).

**G3769 *G. semicarinata* (PILSBRY, 1904-b)**

Katakado-manji

- Type locality: 'Hirado, Hizen' (Hirado island, Nagasaki prefecture, western Kyūshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (Sado island, J3-J1), EC5, ECP4-ECP2.
- Habitat: 5-35 m., sand.
- Original genus: *Mangilia*.

**G3770 *G. kamakurana* (PILSBRY, 1904-b)**

Kamakura-manji

- Type locality: Kamakura, Sagami bay, central Honshū.
- Distribution: Sagami bay and southwards, P6-P5, Japan Sea (Noto peninsula, J2-J1), EC5.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Mangilia*.

**G3771 *G. himerodes* (MELVILL & STANDEN, 1896)**

Hime-manji

- Type locality: Loyalty islands, New Caledonia.

- Distribution: Amami islands and southwards, ECP3-ECP2; Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967).

- Habitat: 5-20 m., sand.

- Original genus: *Mangilia*.

**G3772 *G. tabatensis* (TOKUNAGA, 1906)**

Tabata-manji (= Tabata-itokake-manji)

- Type locality: Dokan-yama, Tōkyō (fossil).
- Distribution: Suruga bay, Japan Sea (Hyōgo prefecture).
- Original genus: *Pleurotoma* (*Drillia*).

**G3773 *G. tokunagae* (FINLAY, 1926)**

(= *Pleurotoma* (*Mangelia*) *parva* TOKUNAGA, 1906 *non* CONRAD, 1830 *non* SMITH, 1888)

Yase-manji

- Type locality: Ōji, Kita-ku, Tōkyō (Ōji bed, fossil).
- Distribution: northeastern Honshū (Ōtsuchi bay, Iwate prefecture).
- Original genus: '*Inquisitor*'?

□ Genus *Paraclathurella* BÖTTGER, 1895

Type species: *Pleurotoma gracilentia* REEVE, 1843 (o. d.)

**G3774 *P. gracilentia* (REEVE, 1843 in 1843-65)**

Nunome-tsubu (= Hoson-hanashi-tsubu)

- Type locality: 'Loay, Island of Bohol, Philippines (dredged from sandy mud at the depth of seventeen fathoms)'.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, Japan Sea (off northern Niigata prefecture, J3-J1), EC5, Seto inland sea, P2; China, Philippines, Persian Gulf.
- Habitat: 10-100 m., coarse sand and stones or sandy mud.
- Original genus: *Pleurotoma*.

□ Genus *Pseudorhaphitoma* BÖTTGER, 1895

Type species: *Mangelia fairbanki* G. & H. NEVILL, 1875 (o. d.)

**G3775 *Ps. pyramis* (HINDS, 1844 in 1844-45)**

(= *Pleurotoma hexagonalis* REEVE, 1845)

Mukado-kebori-kuchikire-tsubu

- Type locality: Straits of Macassar (Indonesia).
- Distribution: Suruga bay and southwards, western Seto inland sea, Amami islands, ECP3-ECP2, P2; Philippines.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Clavatula*.

**G3776 *Ps. bipyramidata* HEDLEY, 1922**

(= *Ps. bipyramidalis* auct.)

Nana-kado-kebori-kuchikire-tsubu (= Nana-kado-kebori-manji; Kebori-hanashi-kototsubu)

- Type locality: 'Murray Id., Queensland; 5-8 fms.' (Australia).
- Distribution: Mie prefecture (Koshi, 30 m.



MATSUMOTO, 1979) and southwards, P6-P5, Japan Sea (Sado island, J3-J1), EC5, ECP4-ECP2, P2; Philippines, Australia.

• Habitat: intertidal to 115 m., coarse sand and stones.

G3777 *Ps. naganumaensis* ŌTSUKA, 1935

Naganuma-kototsubu

• Type locality: Naganuma, Totsuka-ku, Yokohama City (fossil).

• Distribution: northeastern Honshū (Iwate prefecture (Ōtsuchi bay TSUCHIDA, 1991) and southwards, Miyagi prefecture), Japan Sea (off Sado island and southwards, Wakasa bay, off Tajima).

• Habitat: intertidal to 20 m., coarse sand and stones.

□ Genus *Cythereella* MONTEROSATO, 1875

Type species: *Murex costatus* DONOVAN, 1803 (s. d. WOODRING, 1928)

(= *Rissomangilia* MONTEROSATO, 1917; *Citharella* THIELE, 1929 *err. pro Cyth-*)

G3778 *C. costulata* (DUNKER, 1860)

Shima-hanashi-kototsubu

• Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).

• Distribution: Mie prefecture (Shima peninsula MATSUMOTO, 1979) and southwards, P6-P5, Seto inland sea, Ogasawara islands (FUKUDA, 1994), Japan Sea (Sado island, J3-J1), EC5.

• Habitat: intertidal to 60 m., sandy mud.

• Original genus: *Mangilia*.

G3779 *C. robusticostata* (E. A. SMITH, 1879-c)

• Type locality: 'Japan'.

• Distribution: Suruga bay (off Shizuoka prefecture), Mie prefecture (off Cape Daiō), Kii peninsula, Japan Sea (Wakasa bay).

• Habitat: 50-160 m., sand.

• Original genus: *Mangilia*.

□ Genus *Clathromangilia* MONTEROSATO, 1884

Type species: *Pleurotoma granum* PHILIPPI, 1844 (mt.)

G3780 *C.? coffea* KURODA & ŌYAMA in KURODA *et al.*, 1971

Cha-iro-kōshitsubu

• Type locality: Sagami bay, central Honshū.

• Distribution: off Chōshi (Chiba prefecture, central Honshū), Sagami bay, Japan Sea (Wakasa bay).

• Habitat: 30-160 m., sand.

□ Genus *Benthomangilia* THIELE, 1925

Type species: *Surcula trophonoidea* SCHEPMAN, 1913 (o. d.)

(= *Metuonella* SORGENFREI, 1958)

G3781 *B. trophonoidea* (SCHEPMAN, 1913 in 1908-13)

• Type locality: 'Siboga' sta. 45: 07° 24' S., 118° 15.2' E., 'Flores-sea. 794 m. Fine grey mud with some radiolariae and diatoms' (north off Sumbawa island, Indonesia) and sta. 178: 02° 40' S., 128° 37.5' E., 'Ceram-sea. 835 m. Blue mud.' (north off Ceram island, Indonesia).

• Distribution: off Amami islands (950 m. OKUTANI, 1966); Indonesia.

• Original genus: *Surcula*.

G3782 *B. subtrophonoidea* OKUTANI, 1964-b

• Type locality: 'Sōyō-Maru' sta. 59, Sagami bay, central Honshū: 35° 05.35' N., 139° 18.65' E., 550 m.

• Distribution: Izu islands (off Izu-Ōshima, 950 m. OKUTANI, 1966), Sagami bay (550-1510 m. OKUTANI, 1964-b; 1968).

G3783 *B. celebensis* (SCHEPMAN, 1913 in 1908-13)

• Type locality: 'Siboga' sta. 88: 0° 34.6' N., 119° 8.5' E., 'Makassar-strait. 1301 m. Fine grey mud.' (narrowest point of Makassar strait, Indonesia).

• Distribution: Izu islands (off Torishima, 2450 m.

OKUTANI, 1966); Indonesia.

• Original genus: *Surcula*.

G3784 *B. abyssopacifica* SYSOEV, 1988

• Type locality: Japan trench: 43° 15' N., 157° 48' E., 5502 m.

• Distribution: east off Ogasawara islands (32° 11' N., 143° 10' E.); northwestern Pacific (40° 20' N., 175° 45' E.)

• Habitat: abyssal. 5502-6065 m.

□ Genus *Ithythythara* WOODRING, 1928

Type species: *Mangilia psila* BUSH, 1885 (o. d.)

G3785 *I. oyuna* (YOKOYAMA, 1922)

Kiba-kototsubu

• Type locality: Shisui, Inba-gun, Chiba prefecture, central Honshū (fossil).

• Distribution: Bōsō peninsula and westwards, P7-P5, Seto inland sea, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4.

• Habitat: intertidal to 20 m., coarse sand and stones.

• Original genus: *Mangilia* (*Cythara*).

□ Genus *Vitjazinella* SYSOEV, 1988

Type species: *Vitjazinella multicostata* SYSOEV, 1988 (o. d.)

G3786 *V. multicostata* SYSOEV, 1988

• Type locality: western Pacific: 33° 18' N., 149° 46' E., 6096 m.

• Distribution: off southeastern Honshū; off Kuril islands.

• Habitat: abyssal. 6090-6135 m.

Subfamily RAPHITOMINAE BELLARDI, 1875

(= DAPHNELLINAE CASEY, 1904)

□ Genus *Gymnobela* VERRILL, 1884

Type species: *Gymnobela engonia* VERRILL, 1884 (s. d.)

COSSMANN, 1896)

( = *Azorilla* NORDSIECK, 1968; *Azorita* NORDSIECK, 1968)

G3787 *G. virgo* (OKUTANI, 1966)

- Type locality: 'Sōyō-Maru' sta. T21(2), Sagami bay, central Honshū: 34° 56.8' N., 139° 37.0' E., 1470-1550 m.
- Distribution: Sagami bay (1520 m. OKUTANI, 1968; type locality).
- Original genus: '*Pleurotomella*'.

G3788 *G. ebor* (OKUTANI, 1968)

- Type locality: 'Sōyō-Maru' sta. B5, off Torishima, Izu islands: 30° 54.0' N., 140° 53.0' E., 2550 m.
- Distribution: recorded only from type locality.
- Original genus: *Pleurotomella*.

□ Genus *Mioawateria* VELLA, 1954

Type species: *Awateria personata* POWELL, 1942 (o. d.)

G3789 *M. bigranulosa* (OKUTANI, 1964-b)

( = *Propebela bigranosa sensu* OKUTANI, 1966; 1968 *err. pro -nulosa*)

- Type locality: 'Sōyō-Maru' sta. B2, 26 miles off Miyake island, Izu islands: 34° 10.0' N., 140° 05.5' E., 1230-1350 m.
- Distribution: Sagami bay (1470-1500 m. OKUTANI, 1966), Enshū-nada (620 m. OKUTANI, 1964-b), Izu islands (off Bayonnaise rock, 550-2020 m. OKUTANI, 1966; off Miyake island, 1080-1205 m. OKUTANI, 1968).
- Original genus: *Propebela*.

G3790 *M. extensaeformis* (SCHEPMAN, 1913 in 1908-13)

- Type locality: 'Siboga' sta. 212: 05° 54' S., 120° 19.2' E., 'Banda-sea. 462 m. Fine grey and green mud.' (East off Selayar island, southern Sulawesi, Indonesia).
- Distribution: off western Kyūshū (730-760 m. OKUTANI, 1964-b); Indonesia.
- Original genus: *Pleurotomella*.

□ Genus *Clinura* BELLARDI, 1875

Type species: *Murex (Pleurotoma) calliope* BROCCCHI, 1814 (s. d. BELLARDI, 1878)

G3791 *C. hosoi* (OKUTANI, 1964-b)

- Type locality: 'Sōyō-Maru' sta. 59, Sagami bay, central Honshū: 35° 05.35' N., 139° 18.65' E., 550 m.
- Distribution: recorded only from type locality.
- Original genus: *Imaclava*.

G3792 *C. hotei* (ŌTSUKA, 1949)

- Type locality: Japan Sea.
- Distribution: central Honshū (Kashima-nada, 870 m. OKUTANI, 1964-b; Sagami bay 1470-1500 m. OKUTANI, 1966); Japan Sea.
- Habitat: 800 m.

- Original genus: *Cymatosyrinx*.

□ Genus *Phymorhynchus* DALL, 1908

Type species: *Pleurotomella castanea* DALL, 1895 (o. d.)

G3793 *P. buccinoides* OKUTANI, FUJIKURA & SASAKI, 1993

- Type locality: off Hatsushima islet, western Sagami bay: 35° 00.2' N., 139° 13.5' E., 1160 m.
- Distribution: recorded only from type locality.

G3794 *P. oceanica* (DALL, 1908)

- Type locality: 'Albatross' sta. 3681: 28° 23' N., 126° 57' W., 2368 fms.
- Distribution: recorded only from type locality.
- Original genus: *Pleurotomella (Phymorhynchus)*.

**Notes:** the co-ordinates given indicate a point in the East China Sea, northwest off Okinawa. The type is badly worn, and generic placement is thus provisional (V. Sysoev, pers. comm.)

□ Genus *Pleurotomella* VERRILL, 1873

Type species: *Pleurotomella packardi* VERRILL, 1873 (mt.)

G3795 *P. granuliapicata* OKUTANI, 1964-b

- Type locality: 'Sōyō-Maru' sta. T29, Sagami bay, central Honshū: 35° 05.5' N., 139° 29.5' E., 710-770 m.
- Distribution: Sagami bay, Izu islands (off Miyake island, 1230-1350 m. OKUTANI, 1964-b), Bōsō peninsula (TSUCHIDA & KUROZUMI, 1995-b).

G3796 *P. cancellata* SYSOEV, 1988

- Type locality: western Pacific: 33° 18' N., 149° 46' E., 6096 m.
- Distribution: north of Ogasawara islands (29° 18' N., 143° 15' E.); type locality.
- Habitat: abyssal. 6770-6850 m.

□ Genus *Buccinaria* KITTL, 1887

Type species: *Buccinaria hoheneggeri* KITTL, 1887 (o. d.) (= *Ōtomella* BARTSCH, 1933 *nom. nov.* for *Ōtoma* KOPERBERG, 1931 *non* DEJEAN, 1833 *nec* BLANCHARD, 1850; *Dotomella* BARTSCH, 1913 *sensu* HIGO & GOTŌ, 1993 *err. pro* *Ōtomella* BARTSCH, 1933; *Pionotoma* KURODA, 1952-c) (Refs.: Bouchet & Sysoev, 1997)

G3797 *B. urania* (E. A. SMITH, 1906)

( = *B. javanensis* ALTENA, 1950)

Misora-fude-shajiku

- Type locality: off Coromandel coast, southeastern India, 446 fms., and off southern Andaman islands, 279 fms.
- Distribution: Tosa bay (southern Shikoku BOUCHET & SYSOEV, 1997); Indian Ocean.
- Original genus: *Pleurotoma (Bathytoma)*.

G3798 *B. jonkeri* (KOPERBERG, 1931)

(= *Ōtomella koperbergi* MARTIN, 1933; *Pionotoma teramachii* KURODA, 1952-c)

Teramachi-giboshi-kudamaki

- Type locality: Timor, Indonesia (fossil).
- Distribution: Tosa bay (southern Shikoku BOUCHET & SYSOEV, 1997).
- Original genus: *Ōtoma*.

G3799 *B. martini* (KOPERBERG, 1931)

(= *B. pyrum* KURODA, 1952-c)

- Type locality: Timor, Indonesia (fossil).
- Distribution: Tosa bay (southern Shikoku BOUCHET & SYSOEV, 1997).
- Habitat: ± 200 m., sand.
- Original genus: *Ōtoma*.

□ Genus *Philbertia* MONTEROSATO, 1884

Type species: *Pleurotoma philberti* MICHAUD, 1830 (by tautonymy)

(= *Lineotoma* NORDSIECK, 1977; *Cirilla*

MONTEROSATO, 1884 non RONDANI, 1856; *Cordieria* MONTEROSATO, 1884 non ROUALT, 1848; *Peratoma* HARRIS & BURROWS, 1891; *Homatoma* BELLARDI, 1875 non GUÉRIN, 1884)

Subgenus *Philbertia* s. str.

G3800 *P. (P.) japonica* (MELVILL, 1895)

- Type locality: Japan.
- Distribution: 'Pacific coast (?)' (KURODA & HABE, 1952-a).
- Original genus: *Defrancia*.

G3801 *P. (P.) perinsignis* (E. A. SMITH, 1884 in 1882-88)

- Type locality: 'Japan?'
- Distribution: 'Pacific coast (?)' (KURODA & HABE, 1952-a).
- Original genus: *Pleurotoma* (*Clathurella*).

Subgenus *Pseudodaphnella* BÖTTGER, 1884

Type species: *Pleurotoma philippinensis* REEVE, 1843 (o. d.)

G3802 *P. (Ps.) philippinensis* (REEVE, 1843 in 1843-65)

Hisago-kōshitsubu

- Type locality: 'Islands of Masbate and Luzon, Philippines (found under stones at low water)'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; western Pacific (Philippines to Fiji).
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Pleurotoma*.

G3803 *P. (Ps.) major* (HERVIER, 1895)

Arame-kōshitsubu

- Type locality: New Caledonia.
- Distribution: Kii peninsula and southwards, P5,

Ogasawara islands (FUKUDA, 1995), EC5, ECP4-ECP2, P2; Philippines, western Pacific.

- Habitat: intertidal, coarse sand and stones.
- Original genus: *Clathurella*.

G3804 *P. (Ps.) leuckarti* (DUNKER, 1860)

Kuri-iro-manji (= Kuri-iro-kōshitsubu)

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Mangilia*.

G3805 *P. (Ps.) phaedra* (HERVIER, 1895)

Shiro-kōshitsubu

- Type locality: New Caledonia.
- Distribution: Kii peninsula and southwards, P5, Ogasawara islands (FUKUDA, 1994), EC5, ECP4-ECP2, P2; Philippines.
- Habitat: intertidal to 20 m., coarse sand and stones.

G3806 *P. (Ps.) nebulosa* (PEASE, 1860)

Ara-kōshitsubu

- Type locality: Hawaii.
- Distribution: Ogasawara islands (FUKUDA, 1994), Amami islands and southwards, ECP3-ECP2, P2; Hawaii.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Borsonia*.

G3807 *P. (Ps.) granicostata* (REEVE, 1846 in 1843-65)

Niku-iro-kōshitsubu

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-western Pacific to Fiji.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Pleurotoma*.

G3808 *P. (Ps.) tincta* (REEVE, 1846-d)

(= *Pleurotoma albifuniculata* REEVE, 1846 in 1843-65; *Clathurella corrugata* DUNKER, 1871; *C. rubroguttata* H. ADAMS, 1872; *C. centrosa* PILSBRY, 1904)  
Kurofu-kōshitsubu (= Ō-shibori-kōshitsubu; Shibori-kōshitsubu)

- Type locality: none designated..
- Distribution: Izu islands and southwards, P11, Ogasawara islands, P6-P5, Seto inland sea, Japan Sea (off Tajima and southwards, J2-J1), EC5, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Pleurotoma*.

G3809 *P. (Ps.) excellens* (SOWERBY III, 1913-a)

Hiide-kōshitsubu

- Type locality: 'Osumi, Japan' (former Ōsumi province;

now southern Kagoshima prefecture, Kyūshū, including Amami and Kikai islands).

- Distribution: Ogasawara islands (FUKUDA, 1995), Amami islands and southwards, ECP3-ECP2, P2.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Clathurella*.

G3810 *P. (Ps.) nexa* (REEVE, 1845 in 1843-65)  
(= *Clathurella albotaeniata* BOUGE & DAUTZENBERG, 1914)

Daruma-kōshitsubu

- Type locality: 'Islands of Masbate and Luzon, Philippines (found under stones at low water)'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Pleurotoma*.

Subgenus *Leufroyia* MONTEROSATO, 1884

Type species: *Pleurotoma leufroyi* MICHAUD, 1828 (by tautonymy)

G3811 *P. (L.) rufolirata* (HERVIER, 1897)

Tsumugata-kōshitsubu

- Type locality: New Caledonia.
- Distribution: Amami islands and southwards, ECP3-ECP2; New Caledonia.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Clathurella*.

G3812 *P. (L.) subspurca* (HERVIER, 1896)

Futo-kōshitsubu

- Type locality: New Caledonia.
- Distribution: Ogasawara islands (FUKUDA, 1994), Amami islands and southwards, ECP3-ECP2, P2; New Caledonia.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Glyphostoma*.

□ Genus *Kermia* OLIVER, 1915

Type species: *Kermia benhami* OLIVER, 1915 (o. d.)

Subgenus *Kermia s. str.*

G3813 *K. (K.) lutea* (PEASE, 1860)

Usu-iro-kōshitsubu (= Usu-murasaki-kōshitsubu; Kata-hoshi-kōshitsubu; Oboro-fu-kōshitsubu)

- Type locality: Hawaii.
- Distribution: Ogasawara islands (FUKUDA, 1995), Amami islands and southwards, ECP3-ECP2, P2; Indo-Pacific, Hawaii.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Borsonia*.

G3814 *K. (K.) pumila* (MIGHELS, 1845)

(= *Pleurotoma reticulata* GARRETT, 1857 non BROWN, 1827; *P. clandestina* DESHAYES, 1863; *Clathurella*

*violacea* PEASE, 1868)

Sumire-kōshitsubu

- Type locality: Oahu, Hawaii.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, tropical Indo-Pacific, Réunion, Cook islands, Fiji to Hawaii.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Pleurotoma*.

G3815 *K. (K.) spelaeodea* (HERVIER, 1897)

Amami-kōshitsubu

- Type locality: New Caledonia.
- Distribution: Amami islands and southwards, ECP3-ECP2; New Caledonia.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Clathurella*.

G3816 *K. (K.) tokyoensis* (PILSBRY, 1895-a)

Tōkyō-kōshitsubu

- Type locality: Kamakura (Sagami bay) and Tōkyō bay.
- Distribution: off Chōshi (Chiba prefecture, central Honshū), P7-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: '*Drilla?*'

G3817 *K. (K.) barnardi* (BRAZIER, 1876)

(= *Clathurella chichijimana* PILSBRY, 1904; *C. luteopicta* BOUGE & DAUTZENBERG, 1914)  
Chichijima-kōshitsubu

- Type locality: 'Barnard Islands, No. 3, North East Australia; four specimens found under a large stone'.
- Distribution: Bōsō peninsula and southwards, Ogasawara islands, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5.
- Habitat: intertidal to 20 m., coarse sand and stones; under coral.
- Original genus: *Clathurella*.

G3818 *K. (K.) episema* (MELVILL & STANDEN, 1896)

(= *Clathurella euzonata* HERVIER, 1897)

Cha-suji-kōshitsubu

- Type locality: Loyalty islands, New Caledonia.
- Distribution: Ogasawara islands (FUKUDA, 1994), Amami islands and southwards, ECP3-ECP2; New Caledonia.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Clathurella*.

G3819 *K. (K.) subcylindrica* (HERVIER, 1897)

Hiro-suji-kōshitsubu

- Type locality: New Caledonia.
- Distribution: Mie prefecture (Atashika, near Kumano City), Amami islands and southwards, ECP3-ECP2, P2; New Caledonia.

- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Clathurella*.

G3820 **K. (K.) pustulosa (FOLIN, 1867)**

Tōkibi-kōshitsubu

- Type locality: 'l'Océan Pacifique aux environs des Negritos' and 'autour des îles aux Perles, dans la baie de Panama'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Pleurotoma*.

G3821 **K. (K.) felina (HINDS, 1843-g)**

Tensuji-kōshitsubu

- Type locality: 'New Ireland (Papua New Guinea), among coarse sand at low water'.
- Distribution: Ogasawara islands (FUKUDA, 1994), Amami islands and southwards, ECP3-ECP2, P2; Philippines.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Clavatula*.

G3822 **K. (K.) tessellata (HINDS, 1843-g)**

(= *Pleurotoma apicalis* SOUVERBIE, 1861; *Defrancia mauritiana* SOWERBY, 1893; *Clathurella rufula* HERVIER, 1896)

Kasuri-kōshitsubu

- Type locality: 'Straits of Macassar (Indonesia). From ten fathoms; coarse sand'.
- Distribution: Mie prefecture (Kii-Nagashima, 20 m. MATSUMOTO, 1979) and southwards, P5, EC5, ECP4-ECP2; tropical Indo-Pacific.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Clavatula*.

G3823 **K. (K.) aniani KAY, 1979**

- Type locality: Nanakuli beach, Oahu, Hawaii; in beach drift.
- Distribution: Ogasawara islands (Iō-jima KOIZUMI, 1993); Hawaii.

Subgenus ***Clathurina* MELVILL, 1917**

Type species: *Pleurotoma foraminata* REEVE, 1845 (o. d.)

G3824 **K. (C.) foraminata (REEVE, 1845 in 1843-65)**

Hoso-kōshitsubu

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Pleurotoma*.

□ Genus ***Xanthodaphne* POWELL, 1942**

Type species: *Pleurotoma (Thesbia) membranacea* WATSON, 1886 (o. d.)

G3825 **X. tenuistriata SYSOEV, 1988**

- Type locality: north of Ogasawara islands: 29° 18' N., 143° 15' E., 6770-6850 m.
- Distribution: recorded only from type locality.
- Habitat: abyssal.

□ Genus ***Microdaphne* MCLEAN, 1971**

Type species: *Philbertia trichodes* DALL, 1919 (o. d.)

G3826 **M. trichodes (DALL, 1919-b)**

(= *Pleurotoma hirsutum* FOLIN, 1867 non BELLARDI, 1848)

Hiiragi-shajiku

- Type locality: 'Panama bay'.
- Distribution: Kii peninsula (Susami; Kushimoto), Amami Ōshima (Tsuchi-hama) (EKAWA, 1992-c); Indo-Pacific, Hawaii, western USA.
- Habitat: 10-100 m., sand.
- Original genus: *Philbertia*.

□ Genus ***Tritonoturris* DALL, 1924**

Type species: *Clathurella robillardi* H. ADAMS, 1869 (o. d.); = *Clavatula amabilis* HINDS, 1843)

G3827 **T. amabilis (HINDS, 1843-g)**

(= *Clathurella elegans* PEASE, 1860; *C. robillardi* H. ADAMS, 1869; *C. robillardi* 'BARCLAY, 1869' sensu DALL, 1924)

Hora-nari-kōshitsubu

- Type locality: 'Straits of Macassar (Indonesia). From seventeen fathoms; mud'.
- Distribution: Kii peninsula and southwards, P5, Japan sea (northern Yamaguchi prefecture J1, FUKUDA et al., 1992), EC5, ECP3-ECP2, P2, Ogasawara islands (FUKUDA, 1994); Philippines, tropical Indo-Pacific.
- Habitat: subtidal to 20 m., mud, coarse sand and stones.
- Original genus: *Clavatula*.

G3828 **T. menecharmes (MELVILL, 1923)**

Une-hora-nari-kōshitsubu

- Type locality: 'Mauritius'.
- Distribution: Ogasawara islands (FUKUDA, 1995), Okinawa prefecture (Miyako island) and southwards, P2; Philippines, tropical Indo-Pacific.
- Habitat: subtidal, coarse sand and stones.
- Original genus: *Veprecula*.

G3829 **T. cumingii (POWYS in SOWERBY & POWYS, 1835)**

Ori-ire-fude-shajiku

- Type locality: '*ad littora insularum Oceani Pacifici*'.
- Collected by Mr. Cuming on the sands at Grimwood's Isle' in following text (possibly Morane atoll, Tuamoto archipelago, Grimault island, New Caledonia or Fangatau atoll (a. k. a. Cockburn island) southeast of Mururoa).
- Distribution: Tosa bay and southwards, P5, Ogasawara

islands (FUKUDA, 1994), EC5, ECP4-ECP2, tropical Indo-Pacific.

- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Buccinum*.

G3830 *T. macandrewi* (E. A. SMITH, 1882 in 1882-88)

Suji-uneri-harabuto-shajiku

- Type locality: Persian Gulf.
- Distribution: Amami Ōshima (Tsuchi-hama).
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Pleurotoma* (*Daphnella*).

□ Genus *Veprecula* MELVILL, 1917

Type species: *Clathurella sykesii* MELVILL & STANDEN, 1903 (o. d.)

(= *Mordica* DALL, 1924)

G3831 *V. pungens* (GOULD, 1860 in 1859-61)

(= *Pleurotoma* (*Defrancia*?) *asperulata* SMITH, 1882 non LAMARCK, 1822 in 1815-22; *P. aesara* DALL, 1918)

Toge-kōshitsubu

- Type locality: Hong Kong, 10 fms, shelly sand.
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (Sado island, J3-J1), EC5; South China Sea, Persian Gulf.
- Habitat: 10-140 m., sand.
- Original genus: *Clavatula*.

G3832 *V. arethusa* (DALL, 1918-b)

(= *Pleurotoma* (*Defrancia*?) *reticulosa* SMITH, 1882 non EDWARDS, 1861; *P. togetoges* NOMURA & NIINO, 1940)

Hari-kōshitsubu (= Togetoge-kōshitsubu)

- Type locality: Japan and Persian Gulf.
- Distribution: Sagami bay and southwards, P6-P5, Japan Sea (southern Niigata prefecture, J3-J1), EC5; Persian Gulf.
- Habitat: 50-140 m., sand.
- Original genus: *Pleurotoma*.

G3833 *V. vepatica* (HEDLEY, 1903)

Arabori-toge-kōshitsubu

- Type locality: '63-75 fathoms off Port Kembla; off Botany Bay in 50-52 fathoms; off Cape Three Points in 41-5-fathoms; off Cabbage Tree Island, Port Stephens, in 24 fathoms' (Australia).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, eastern & northern Australia, Persian Gulf.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Pleurotoma*.

G3834 *V. ? gracilispira* (E. A. SMITH, 1879-b)

Naga-toge-kōshitsubu (= Tōgata-kōshitsubu)

- Type locality: 'North of Kiushiu' (Genkai-nada, off Fukuoka prefecture): 33° 56' N., 130° 27' E., 30 fms.
- Distribution: Sagami bay and southwards, P6-P5, Japan

Sea (central Niigata prefecture, J3-J1), EC5.

- Habitat: 30-130 m., sand.
- Original genus: *Defrancia*.

□ Genus *Eucyclotoma* BÖTTGER, 1895

Type species: *Clathurella bicarinata* PEASE, 1862 (s. d. COSSMANN, 1896)

(= *Turrhyssa* DALL, 1924)

G3835 *E. trivari-cosa* (MARTENS, 1880)

Une-kōshitsubu

- Type locality: Seychelles, Indian Ocean.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Defrancia*.

G3836 *E. lactea* (REEVE, 1843 in 1843-65)

Nunome-une-kōshitsubu

- Type locality: 'Bolinao, Island of Luzon, and Gindulman, Island of Bohol, Philippines (found under stones at low water)'.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, western Pacific.
- Habitat: intertidal, coarse sand and stones.
- Original genus: *Pleurotoma*.

G3837 *E. hindsii* (REEVE, 1843 in 1843-65)

Amido-kōshitsubu

- Type locality: 'Baclayon, Island of Bohol, Philippines (found under stones on the reefs at low water)'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, tropical Indo-Pacific.
- Habitat: subtidal to 20 m., coarse sand and stones.
- Original genus: *Pleurotoma*.

G3838 *E. tricarinata* (KIENER, 1840 in 1834-80)

(= *Pleurotoma tricostata* KIENER, 1840; *Purpura exilis* DUNKER, 1871 non LINK, 1807; *Eucyclotoma nobilis* HEDLEY, 1922)

Yase-une-kōshitsubu

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, tropical Indo-Pacific.
- Habitat: subtidal to 20 m., coarse sand and stones.
- Original genus: *Pleurotoma*.

G3839 *E. bicarinata* (PEASE, 1863-a)

Hoso-une-kōshitsubu

- Type locality: 'Kingsmill island' (Polynesia).
- Distribution: Amami islands and southwards, ECP3-ECP2; tropical Pacific.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Pleurotoma*.

□ Genus *Asperdaphne* HEDLEY, 1922

Type species: *Daphnella versivestita* HEDLEY, 1912 (o. d.)

(= *Scabrella* HEDLEY, 1918 non SACCO, 1890)

G3840 *A. peradmirabilis peradmirabilis* (E. A. SMITH, 1879-b)

Murakumo-futa-nashi-shajiku

• Type locality: 'Gotō islands' (western Kyūshū): 33° 19' N., 129° 7' E., 50 fms., and 'South of Korea, 34° 19' N., 124° 57' E., 12 fms'.

• Distribution: Sagami bay and westwards, P6-P5, Japan Sea (Noto peninsula, J2-J1); southern Korea.

• Habitat: 20-90 m., sandy mud.

• Original genus: *Drillia*.

G3841 *A. subzonata* (E. A. SMITH, 1879-b)

Usu-obi-futa-nashi-shajiku

• Type locality: 'North of Kiushiu', 33° 56' N., 130° 27' E., 30 fms.

• Distribution: Mie prefecture (Shima peninsula MATSUMOTO, 1979) and southwards, P5, Seto inland sea, Japan Sea (Wakasa bay, J1), EC5, ECP4-ECP2.

• Habitat: 10-30 m., sandy mud.

• Original genus: '*Daphnella*'?

□ Genus *Kuroshiodaphne* SHUTŌ, 1965

Type species: *Daphnella fuscobalteata* E. A. SMITH, 1879 (o. d.)

G3842 *K. fuscobalteata* (E. A. SMITH, 1879)

Tsukushi-futa-nashi-shajiku

• Type locality: 'Between south-western extremity of Nippon and the island of Shikoku' (western Seto Inland Sea): 33° 45.5' N., 132° 30' E., 30 fms.

• Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, Ariake inland sea (western Kyūshū).

• Habitat: 10-100 m., sand.

• Original genus: '*Daphnella*'?

G3843 *K. subula* (REEVE, 1845 in 1843-65)

Kasuri-manji

• Type locality: 'Island of Corrigidor (Corregidor), Philippines (found among coarse sand at the depth of seven fathoms)'.

• Distribution: Sagami bay and southwards, P6-P5, Seto inland sea, Japan Sea (off central Niigata prefecture, J3-J1), EC5; Philippines, New Caledonia.

• Habitat: 10-50 m., sand.

• Original genus: *Pleurotoma*.

G3844 *K. saturata* (REEVE, 1845 in 1843-65)

Kawari-bori-fude-shajiku

• Type locality: 'Island of Corrigidor (Corregidor), Philippines (found among coarse sand at the depth of seven fathoms)'.

• Distribution: Sagami bay and southwards, P6-P5, ECP4; Philippines, New Caledonia.

• Habitat: 10-50 m., sand.

• Original genus: *Pleurotoma*.

□ Genus *Eubela* DALL, 1889

Type species: *Pleurotoma (Bela) limacina* DALL, 1881 (o. d.)

G3845 *E. nipponica* KURODA, 1938-a

Nedake-shajiku

• Type locality: off Kamekisho, Sagami bay, central Honshū; 400 m.

• Distribution: Sagami bay and westwards, Enshū-nada, Mie prefecture (off Owase MATSUMOTO, 1979), Kii peninsula (off Kushimoto), Tosa bay.

• Habitat: 300-400 m., rocks.

□ Genus *Nepotilla* HEDLEY, 1918

Type species: *Daphnella bathentoma* VERCO, 1909 (o. d.)

G3846 *N. nezi* (OKUTANI, 1964-b)

• Type locality: 'Sōyō-Maru' sta. 17, Kashima-nada off Ibaraki prefecture, central Honshū): 36° 19.8' N., 141° 00' E., 870 m.

• Distribution: Enshū-nada and northwards, Sagami bay (655-675 m. OKUTANI, 1966), Kashima-nada to northeastern Honshū.

• Habitat: 800-900 m.

• Original genus: *Taranis* (*Nepotilla*).

□ Genus *Daphnella* HINDS, 1844 in 1844-45

Type species: *Pleurotoma lymneiformis* KIENER, 1839 (s. d. HERRMANNSEN, 1847)

Subgenus *Daphnella s. str.*

G3847 *D. (D.) interrupta* PEASE, 1860

(= *Pleurotoma fragilis* REEVE, 1845 non DESHAYES, 1834; *Da. fragilis* var. *articulata* PILSBRY, 1901 non HERVIER, 1896; *Da. pilsbryi* KURODA, 1947)

Fude-shajiku

• Type locality: Hawaii.

• Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, Kii peninsula, Tosa bay, eastern Kyūshū, Japan Sea (Oga peninsula; off northern Yamaguchi prefecture), western Kyūshū; Indo-Pacific, Hawaii.

• Habitat: subtidal to 20 m., coarse sand and stones.

G3848 *D. (D.) ornata* HINDS, 1844 in 1844-45

(= *D. tessellata* GARRETT, 1873)

Fuiri-fude-shajiku

• Type locality: 'New Guinea. In six fathoms, among mud'.

• Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific.

- Habitat: intertidal to 20 m., sandy mud.

G3849 *D. (D.) botanica* HEDLEY, 1918

(= *D. bucklandi* LASERON, 1954)

Kazari-fude-shajiku

- Type locality: New South Wales, Australia.
- Distribution: Tosa bay and southwards, P5, ECP4-ECP2, P2; Philippines, Australia.
- Habitat: intertidal to 20 m., sand.

G3850 *D. (D.) radula* PILSBRY, 1904-b

Kasuri-fude-shajiku (= Nunome-fude-shajiku)

- Type locality: 'Hirado, Hizen' (Hirado island, Nagasaki prefecture).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, Mie prefecture (Shima peninsula), Seto inland sea, Tosa bay, Japan Sea (Wakasa bay and southwards; northern Yamaguchi prefecture), northwestern Kyūshū.
- Habitat: intertidal to 50 m., sandy mud.

G3851 *D. (D.) atractoides* HERVIER, 1897

Chibi-fude-shajiku

- Type locality: New Caledonia.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, New Caledonia, Australia, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., sand.

G3852 *D. (D.) flammea* (HINDS, 1843-g)

(= *Pleurotoma delicata* REEVE, 1846 in 1843-65)

Hoso-fude-shajiku

- Type locality: 'New Ireland (Papua New Guinea). Among coarse sand at low water'.
- Distribution: Ogasawara islands (FUKUDA, 1994), Amami islands and southwards, ECP3-ECP2, P2; Philippines, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Clavatula*.

G3853 *D. (D.) varicosa varicosa* (SOVERBIE in SOVERBIE & MONTROUZIER, 1874 in 1859-79)

Une-fude-shajiku

- Type locality: Île d'Art, New Caledonia.
- Distribution: Japan Sea (Wakasa bay), southwestern Kyūshū, EC5, ECP4-ECP2, P2; Philippines.
- Habitat: intertidal to 20 m., sand.
- Original genus: '*Pleurotoma (Daphnella?)*'

G3854 *D. (D.) varicosa paucivaricosa* KURODA & ŌYAMA in KURODA *et al.*, 1971

Hoso-une-fude-shajiku

- Type locality: Sagami bay, central Honshū.
- Distribution: recorded only from type locality.

G3855 *D. (D.) mitrellaformis* (NOMURA, 1940)

(= *D. nomurai* KURODA, 1941)

Suihitsu-shajiku

- Type locality: off Ubara, Bōsō peninsula; 130-177 m.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4, P2.
- Habitat: 100-200 m., sand.
- Original genus: *Colus (Aulacofusus)*.

G3856 *D. (D.) angulata* HABE & MASUDA, 1990

(= *D. angulata* KURODA, MS *sensu* AZUMA, 1960; ŌYAMA, 1961 *nom. nud.*)

Sakurai-fude-shajiku

- Type locality: Enshū-nada, off Shizuoka prefecture, central Honshū.
- Distribution: western Enshū-nada, Mie prefecture (off Shima peninsula MATSUMOTO, 1979), Kii peninsula, Tosa bay.
- Habitat: 200-300 m., sand.

**Notes:** current location of type material is unknown (HASEGAWA & SAITŌ, 1995).

G3857 *D. (D.) tosaensis* KURODA & HABE in HABE, 1961-a

Tosa-fude-shajiku

- Type locality: off Cape Ashizuri, southwestern Shikoku; ± 200 m.
- Distribution: Tosa bay, 100-200 m., sand.

G3858 *D. (D.) semivaricosa* HABE & MASUDA, 1990

(= *D. semivaricosa* KURODA, MS *sensu* AZUMA, 1960; ŌYAMA, 1961 *nom. nud.*)

Sakiyore-fude-shajiku

- Type locality: Tosa bay, southern Shikoku.
- Distribution: Mie prefecture (Owase, below 200 m. MATSUMOTO, 1979) and westwards, Tosa bay, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967).
- Habitat: 150-300 m., sand.

G3859 *D. (D.) nobilis* KIRA, 1959-a

Sekitori-fude-shajiku (= Kubire-fude-shajiku)

- Type locality: off central Honshū, 50-80 fms.
- Distribution: western Shima peninsula (off Futagi, below 200 m. MATSUMOTO, 1979), Kii peninsula, Tosa bay.
- Habitat: 100-300 m., sand.

G3860 *D. (D.) pernobilis* KURODA & HABE in HABE, 1961-a

(= *D. pernobilis* KURODA, MS *sensu* AZUMA, 1960; ŌYAMA, 1961 *nom. nud.*)

Hotei-fude-shajiku

- Type locality: off Cape Ashizuri, southwestern Shikoku; 200-300 m.
- Distribution: Enshū-nada and southwards, Mie prefecture (Futagi; Cape Miki, below 200 m. MATSUMOTO, 1979), western Kyūshū (off Koshiki islands), Tosa bay.



- Habitat: 150-400 m., sand.

G3861 *D. (D.) arcta* (E. A. SMITH, 1884 in 1882-88)

- Type locality: 'Japan and Persian Gulf.'
- Distribution: 'Pacific coast (?)' (KURODA & HABE, 1952-a).
- Original genus: *Pleurotoma* (*Daphnella*).

G3862 *D. (D.?) supercostata* (E. A. SMITH, 1882 in 1882-88)

- Type locality: 'Japan' (coll. A. Adams).
- Distribution: 'Pacific coast (?)' (KURODA & HABE, 1952-a).
- Original genus: *Pleurotoma* (*Daphnella*).

**Notes:** this species was also reported from the Pleistocene of Moeshima (SHUTŌ, 1965) but the holotype of *supercostata* (BMNH 1966373) differs from Shuto's figure.

Subgenus *Hemidaphne* HEDLEY, 1918

Type species: *Pleurotoma souverbiei* E. A. SMITH, 1882 (o. d.)

G3863 *D. (H.) reeveana* (DESHAYES, 1863)

(= *Clathurella tumida* PEASE, 1867)

Niyori-fude-shajiku

- Type locality: Réunion island, Indian Ocean.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Pleurotoma*.

G3864 *D. (H.) cyclophora* (DESHAYES, 1863)

Maru-mizo-fude-shajiku

- Type locality: Réunion island, Indian Ocean.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Pleurotoma*.

□ Genus *Antimitra* IREDALE, 1917

Type species: *Pleurotoma aegrota* REEVE, 1845 (o. d.)

(= *Mitromorpha sensu* A. ADAMS, 1865-a non

CARPENTER, 1865)

G3865 *A. lirata* (A. ADAMS, 1865-a)

- Type locality: 'Shimonoseki, Seto-utchi' (Seto inland sea, western Yamaguchi prefecture).
- Distribution: 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a).
- Original genus: *Mitromorpha*.

□ Genus *Spergo* DALL, 1895

Type species: *Spergo glandiniformis* DALL, 1895 (s. d. DALL, 1918)

Subgenus *Speioides* KURODA & HABE in HABE, 1961-a

Type species: *Speioides yoshidai* KURODA & HABE,

1961 (mt.)

G3866 *S. (S.) yoshidai* (KURODA & HABE in HABE, 1961-a)

Yoshida-tōhitsu-shajiku

- Type locality: Tosa bay off Kōchi prefecture, southern Shikoku.
- Distribution: Tosa bay and westwards; Philippines (Bohol island).
- Habitat: 200-300 m., sand.
- Original genus: *Speioides*.

G3867 *S. (S.) fusiformis* (KURODA & HABE in HABE, 1961-a)

Tōhitsu-shajiku

- Type locality: Tosa bay off Kōchi prefecture, southern Shikoku; ± 300 m.
- Distribution: Mie prefecture (off Owase, below 200 m. MATSUMOTO, 1979), Tosa bay, off southwestern Kyūshū.
- Habitat: 200-300 m., sand.
- Original genus: '*Pontiothauma*?'

G3868 *S. (S.) nipponensis* OKUTANI & IWAHORI, 1992

Kasha-tōhitsu-shajiku

- Type locality: Tosa bay, off Kōchi City, southern Shikoku; ± 700 m.
- Distribution: Tosa bay.
- Habitat: 700-780 m.

□ Genus *Thatcheria* ANGAS, 1877-c

Type species: *Thatcheria mirabilis* ANGAS, 1877 (mt.)

(= *Cochlioconus* YOKOYAMA, 1926)

G3869 *T. mirabilis* ANGAS, 1877

Chimaki-bora

- Type locality: 'Seas of Japan'.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, EC5, ECP4, East China Sea, P2; Taiwan, Philippines, South China Sea, northern Australia.
- Habitat: 150-400 m., sand.

Subfamily **TARANINAE** CASEY, 1904

(Refs.: Kilburn, 1992-a)

□ Genus *Taranis* JEFFREYS, 1870

Type species: *Trophon morchi* MALM, 1863 (mt.)

(= *Fenestrosyrinx* FINLAY, 1926; *Allo* JOUSSEAUME in LAMY, 1934; *Faliciella* LAMY, 1934)

G3870 *T. japonicus* OKUTANI, 1964-b

- Type locality: 'Sōyō-Maru' sta. 59, Sagami bay, central Honshū: 35° 05.35' N., 139° 18.65' E., 550 m.
- Distribution: central Honshū (Sagami bay; Kashima-nada, 870 m.; Enshū-nada, 620 m. OKUTANI, 1964-b).

- Habitat: 500-800 m.

G3871 *T. corneus* OKUTANI, 1966

- Type locality: 'Sōyō-Maru' sta. T21(2), Sagami bay, central Honshū: 34° 56.8' N., 139° 21.0' E., 1470-1500 m.
- Distribution: Hokkaidō (off cape Esan), Sagami bay, Suruga bay, Kii peninsula (TSUCHIDA, 1985-b).
- Habitat: 1000-1500 m.

G3872 *T.? turritispira* (E. A. SMITH, 1882 in 1882-88)

- Type locality: 'Japan' (Cuming collection).
- Distribution: 'Japan' (KURODA & HABE, 1952-a).
- Original genus: '*Pleurotoma* (*Taranis?*)'.

Subfamily CONINAE FLEMING, 1822

(Refs.: Walls, 1979; Röckel, Korn & Kohn, 1995)

□ Genus *Conus* LINNAEUS, 1758

Type species: *Conus marmoreus* LINNAEUS, 1758 (s. d. CHILDREN, 1823)

**Notes:** The present authors believe the division of the genus *Conus* into subgenera to be justified in principle, but in the continued absence of an effective scheme encompassing the entire genus the subfamily is treated as monogeneric following Röckel, Korn & Kohn (1995). For details of some of the very numerous genera and subgenera proposed for the Coninae see HIGO & GOTŌ (1993).

G3873 *C. marmoreus marmoreus* LINNAEUS, 1758

(= *Cucullus proarchithalassus* RÖDING, 1798; *Conus maculatus* PERRY, 1811 non BOSC, 1801; *C. marmoratus* var. *granulatus* SOWERBY I, 1839; *C. crosseanus* BERNARDI, 1861; *C. suffusus* SOWERBY III, 1870; *C. suffusus* var. *noumeensis* CROSSE, 1872; *C. pseudomarmoreus* CROSSE, 1875; *C. crosseanus* var. *lineata* CROSSE, 1878)

Nan'yo-kuro-minashi (= Uroko-kuro-minashi; Kurose-kuro-minashi; Yoso-oi-kuro-minashi; Nise-kuro-minashi)

- Type locality: 'in Asia'.
- Distribution: Amami islands and southwards, ECP2, P2; Philippines, Australia, Indo-Pacific.
- Habitat: intertidal to 30 m., on coral and under rocks.

G3874 *C. marmoreus bandanus* HWASS in BRUGUIÈRE, 1792 in 1789-1816

(= *Cucullus equestris* RÖDING, 1798; *Cucullus torquatus* RÖDING, 1798; *Conus nigrescens* SOWERBY II, 1859; *Conus marmoreus sensu* IWAKAWA, 1919; S. HIRASE, 1934)

Kuro-minashi

- Type locality: 'de l'isle de Banda, l'une des Moluques' (Banda island, Moluccas (Maluku), Indonesia).
- Distribution: Hachijō island (Izu islands) and southwards, P11, northern Ogasawara islands, Kii peninsula, P6-P5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: subtidal to 20 m., sand around coral reefs.

G3875 *C. marmoreus vidua* REEVE, 1843 in 1843-65

(= *C. vidua mozoi* MELVIN & MELVIN, 1980)

Habu-minashi

- Type locality: 'Island of Capul, Philippines (on the reefs)'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal in sand on coral reefs.

G3876 *C. leopardus* (RÖDING, 1798)

(= *C. millepunctatus* LAMARCK, 1822 in 1815-22; *C. millepunctatus* var. *aldrovandi* DAUTZENBERG, 1937)

Kurofu-modoki

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to 45 m., in sand among rocks and coral.
- Original genus: *Cucullus*.

G3877 *C. characteristicus* FISCHER von WALDHEIM, 1807

(= *C. mucosus* LAMARCK, 1810; *C. masoni* G. & H. NEVILL, 1874; *C. brevis* E. A. SMITH, 1877 non J. de C. SOWERBY, 1877)

Karakusa-imo

- Type locality: none originally given; designated 'Java Sea' (COOMANS *et al.*, 1983 in 1979-86).
- Distribution: Kii peninsula (Ogokuda beach SHIKAMA & CHINŌ, 1970) and southwards, P5, ECP4-ECP2; Bay of Bengal to Philippines.
- Habitat: subtidal to 30 m., sand.
- Notes:** for details of types see IVANOV *et al* (1993).

G3878 *C. tessulatus* BORN, 1778

(= *Cucullus pavementum* RÖDING, 1798; *Conus edaphus* DALL, 1910)

Harusha-gai (= Kabafu-ichimatsu)

- Type locality: Africa.
- Distribution: Bōsō peninsula and southwards, P11, northern Ogasawara islands, Kii peninsula, P7-P5, EC5, ECP4-ECP2; Indo-Pacific, east Africa to Hawaii.
- Habitat: (Kyūshū and northwards) subtidal to 50 m., coarse sand and stones; (south of Kyūshū) intertidal in sand among coral.

G3879 *C. eburneus eburneus* HWASS in BRUGUIÈRE, 1792 in 1789-1816

(= *Cucullus quadratulus* RÖDING, 1798; *Conus alternatus* LINK, 1807; *Conus crassus* SOWERBY II, 1858)

Kurozame-modoki

- Type locality: 'Aux Mers des Indes orientales' (East Indies).
- Distribution: Kii peninsula (Kushimoto SHIKAMA &

CHINŌ, 1970) and southwards, P5, southern Kyūshū, ECP4-ECP2, P2; Philippines, Africa, Red Sea to Australia, Polynesia.

• Habitat: intertidal to 65 m., sand among rocks.

**G3880 *C. eburneus polyglotta* WEINKAUFF, 1874**

Tabako-imo

• Type locality: Pelew island, Society islands, Polynesia.

• Distribution: Kii peninsula (Kushimoto, KOYAMA, 1993), Okinawa islands and southwards, ECP2, P2; Philippines, Indo-Pacific.

• Habitat: intertidal, sand.

**G3881 *C. litteratus* LINNAEUS, 1758**

(= *Cucullus pardus* RÖDING, 1798; *Conus arabicus* LAMARCK, 1810; *Conus grueneri* REEVE, 1843 in 1843-65)

Anbon-kurozame

• Type locality: 'Oceano Asiatico' (Asian seas).

• Distribution: Tosa bay (southern Shikoku) and southwards, P5, southern Kyūshū, ECP4-ECP2, P2; Philippines, entire Indo-Pacific to Hawaii.

• Habitat: subtidal to 50 m., in sand among rocks and coral.

**G3882 *C. imperialis* LINNAEUS, 1758**

(= *Conus fuscatus* BORN, 1778; *Cucullus coronaducalis* RÖDING, 1798; *Cucullus regius* RÖDING, 1798; *Conus viridulus* LAMARCK, 1810; *Conus queketti* E. A. SMITH, 1906; *C. imperialis flavescens* BARROS & CUNHA, 1933; *C. dautzenbergi* FENAUX, 1942; *C. douvillei* FENAUX, 1942; *C. imperialis compactus* WILS, 1970)

Mikado-minashi (= Ajisai-imo; Naga-mikado-minashi)

• Type locality: none designated.

• Distribution: Hachijō island (Izu islands) and southwards, P11, northern Ogasawara islands, Kii peninsula, ECP4-ECP2, P2; Philippines, Indo-Pacific.

• Habitat: intertidal to 75 m., sand among coral and rocks.

**G3883 *C. araneosus* LIGHTFOOT, 1786**

(= *C. arachnoideus* GMELIN, 1791; *C. nicobaricus* HWASS in BRUGUIÈRE, 1792 in 1789-1816; *C. reticulatus* PERRY, 1811; *C. monstrosus* CHEMNITZ *sensu* KÜSTER, 1838; *C. peplum* SOWERBY II, 1857; *C. arenosus sensu* SHIKAMA & HORIKOSHI, 1963 err.; *C. arachnoides sensu* SHIKAMA & HORIKOSHI, 1963 err.) Masago-imo (= Kumo-no-su-imo; Nikobaru-masago-imo)

• Type locality: Coromandel (coast, southeastern India).

• Distribution: Okinawa islands (?), P2; Taiwan and southwards, Philippines, South China Sea, southwestern Africa to Indo-Pacific.

• Habitat: intertidal to 20 m., under rocks, on coral reefs.

**G3884 *C. ebraeus* LINNAEUS, 1758**

(= *C. quadratus* PERRY, 1811 *non* RÖDING, 1798; *C. judaeus* BERGH, 1895; *C. hebraeus sensu* IWAKAWA,

1919; *C. eburneus sensu* S. HIRASE, 1934)

Madara-imo

• Type locality: 'in India'.

• Distribution: Izu islands and southwards, Kii peninsula, P6-P5, Japan Sea (J1), EC5, ECP4-ECP2, P2; Indo-Pacific to western central America.

• Habitat: intertidal (in pools) to 20 m., on rocks and coral reefs.

**G3885 *C. chaldaeus* (RÖDING, 1798)**

(= *C. vermiculatus* LAMARCK, 1810)

Ko-madara-imo

• Type locality: none designated.

• Distribution: Kii peninsula (Kushimoto; Kii-Ōshima SHIKAMA & CHINŌ, 1970) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines to western central America.

• Habitat: intertidal (in pools) to 20 m., on rocks and coral reefs.

• Original genus: *Cucullus*.

**G3886 *C. coronatus* GMELIN, 1791**

(= *Cucullus coronalis* RÖDING, 1798; *Conus parvus* GEBAUER, 1802 *non* RÖDING, 1798; *C. aristophanes* DUCLOS *sensu* SOWERBY II, 1857; *C. minimus var. condoriana* CROSSE & FISCHER, 1864)

Juzukake-sayagata-imo

• Type locality: none designated.

• Distribution: Hachijō island and southwards, P11, northern Ogasawara islands, Kii peninsula, P5, western Kyūshū, ECP4-ECP2, P2; Indo-Pacific, Australia.

• Habitat: intertidal to 10 m., rocks and coral reefs.

**G3887 *C. miliaris* HWASS in BRUGUIÈRE, 1792 in 1789-1816**

(= *C. barbadosis* HWASS in BRUGUIÈRE, 1792 in 1789-1816; *C. minimus var. granulatus* SOWERBY I, 1834; *C. miliaris pascuensis* REHDER, 1980)

Benifuji-sayagata-imo (= Benifu-sayagata-imo; Kasumi-sayagata-imo)

• Type locality: 'les Mers de la Chine' (China Seas).

• Distribution: Ogasawara islands (Chichijima FUKUDA, 1995), Kii peninsula (SHIKAMA & CHINŌ, 1970) Okinawa prefecture and southwards, ECP2, P2; Philippines, Indo-Pacific to Polynesia.

• Habitat: intertidal to 10 m., sand, coral rubble or rocks.

**G3888 *C. fulgetrum* SOWERBY I, 1834**

(= *C. scaber* KIENER, 1845; *C. miliaris sensu* IWAKAWA, 1919; *C. coronatus sensu* KURODA, 1928) Sayagata-imo (= Mushiro-imo)

• Type locality: Red Sea.

• Distribution: Fukushima prefecture and southwards, P8-P5, Japan Sea (J1), EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific.

- Habitat: intertidal to 10 m., rocks in sandy mud.

**G3889 *C. sponsalis sponsalis* HWASS in BRUGUIÈRE, 1792 in 1789-1816**

(= *C. puncturatus* HWASS in BRUGUIÈRE, 1792 in 1789-1816; *C. maculatus* BOSCH, 1801)

Hanawa-imo

- Type locality: 'Aux îles Saint-George'.
- Distribution: Izu islands and southwards, Kii peninsula, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to subtidal, rocks and coral reefs.

**G3890 *C. sponsalis nanus* SOWERBY I, 1833**

Shiro-seiron-imo

- Type locality: 'Lord Hood's island' (probably Marutea, 21° 30' S., 135° 33' W.), Pacific Ocean.
- Distribution: Hachijō island and southwards, P11, Kii peninsula, P5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to subtidal, rocks and coral reefs.

**G3891 *C. sponsalis ceylanensis* HWASS in BRUGUIÈRE, 1792 in 1789-1816**

(= *ceylonensis* auct.)

Seiron-imo

- Type locality: 'sur les côtes de l'isle de Ceylan' (coasts of Sri Lanka).
- Distribution: Hachijō island and southwards, P11, Kii peninsula, P5, southern Kyūshū, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to subtidal, rocks and coral reefs.

**G3892 *C. musicus* HWASS in BRUGUIÈRE, 1792 in 1789-1816**

(= *C. mighelsi* KIENER, 1845; *C. acutus* SOWERBY II, 1857 non ANTON, 1838 non DESHAYES, 1865)

Gakufu-imo

- Type locality: 'les Mers de la Chine' (China Seas).
- Distribution: Kii peninsula (SHIKAMA & CHINŌ, 1970) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Australia to Fiji.
- Habitat: intertidal to subtidal, in sand among rocks and coral.

**G3892-1 *C. arenatus* HWASS in BRUGUIÈRE, 1792 in 1789-1816**

(= *Cucullus arenosus* RÖDING, 1798; *Cucullus stercusmuscarum* RÖDING, 1798 non LINNAEUS, 1758; *Conus arenatus* var. *mesokatharos* MELVILL in TRYON, 1883; *C. armatus* HWASS sensu E. A. SMITH, 1891; *C. arenatus* var. *aequipunctata* DAUTZENBERG, 1937; *C. arenatus* var. *undata* DAUTZENBERG, 1937; *C. arenatus* var. *granulosa* DAUTZENBERG, 1937; *C. arenatus* *bizona* COOMANS, 1981)

Komon-imo

- Type locality: 'des Isles Philippines'.

- Distribution: Kii peninsula and southwards, P5, southern Kyūshū, ECP4-ECP2, P2; Philippines, Indo-Pacific to Marshall islands and Tuamotu Archipelago.

- Habitat: intertidal to 30 m., in sand among coral and rocks.

**G3893 *C. pulicarius* HWASS in BRUGUIÈRE, 1792 in 1789-1816**

(= *Conus fustigatus* HWASS in BRUGUIÈRE, 1792 in 1789-1816; *Cucullus punctulatus* RÖDING, 1798; *Conus vaultieri* KIENER, 1845; *Puncticulus plicarius sensu* KIRA, 1959)

Gomafu-imo (= Kogasuri-imo)

- Type locality: 'Les îles de l'Océan Pacifique' (Islands of the Pacific).
- Distribution: Hachijō island and southwards, P11, Kii peninsula, P5, ECP4-ECP2, P2; Philippines, Indo-Pacific to Polynesia.
- Habitat: intertidal to 75 m., in sand among rocks and near coral reefs.

**G3894 *C. stercusmuscarum* LINNAEUS, 1758**

(= *Cucullus arenatus* RÖDING, 1798; *Cucullus sabella* RÖDING, 1798)

Akebono-imo

- Type locality: 'in Asia'.
- Distribution: Kii peninsula and southwards, P5, southern Kyūshū, ECP4-ECP2, P2; Philippines, western Pacific, Indonesia to Solomon islands, Fiji.
- Habitat: intertidal to 20 m., in sand among coral on reefs, in sand among rocks.

**G3895 *C. varius* LINNAEUS, 1758**

(= *Cucullus granulatus* RÖDING, 1798; *Cucullus annularis* RÖDING, 1798; *Cucullus radula* RÖDING, 1798; *Conus pulchellus* SOWERBY I, 1834 non RÖDING, 1798, nec SWAINSON, 1822; *Conus hevassii* A. ADAMS, 1854; *C. hwassi* A. ADAMS sensu WEINKAUFF, 1874)

Murakumo-imo

- Type locality: none designated.
- Distribution: Kii peninsula (Kushimoto SHIKAMA & CHINŌ, 1970) and southwards, P5, ECP4-ECP2, P2; Philippines, Indo-Pacific, east Africa to Fiji.
- Habitat: intertidal to 30 m., coral reefs.

**G3896 *C. hamamotoi* YOSHIBA & KOYAMA, 1984**

Hanagasa-imo

- Type locality: 'at so-called Teradashi to Hattansho, 33° 25.8'-33° 26.3' N., 135° 44.5' - 135° 44.9' E. (off southern Kii peninsula, central Honshū).
- Distribution: Kii peninsula, Ogasawara islands (Otomejima FUKUDA, 1995); New Caledonia, Coral Sea.

**G3897 *C. pauperculus* SOWERBY I, 1834**

Beni-imo

- Type locality: Cape of Good Hope.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5, ECP4-ECP3; South Africa.
- Habitat: subtidal to 50 m., rocks among seaweed.

G3898 *C. boeticus* REEVE, 1844 in 1843-65

(= *C. nitidus* REEVE, 1843 in 1843-65; *C. ruppelli* REEVE, 1848; *C. cerinus* REEVE, 1848; *C. lachrymosus* REEVE, 1849; *C. rivularis* REEVE, 1849; *C. fultoni* SOWERBY III, 1887)

Tsuya-imo (= Hiro-kuchi-hishi-imo)

- Type locality: 'Philippine Islands'.
- Distribution: Tosa bay and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Indonesia to Fiji.
- Habitat: subtidal to 20 m., on rock bottom among seaweeds.

G3899 *C. moluccensis* KÜSTER, 1838

(= *C. stainforthii* REEVE, 1843 in 1843-65; *C. merletti* MAYISSIAN, 1974; *C. marielae* REHDER & WILSON, 1975)

Morukka-imo

- Type locality: Moluccas (Maluku, Indonesia).
- Distribution: Okinawa island (off Cape Zanpa, 20-30 m.), P2; Philippines, Indonesia, Australia, Melanesia to Fiji.
- Habitat: 20-240 m., sand.

G3900 *C. tuberculosus* TOMLIN, 1938-b

(= *C. tuberculatus* YOKOYAMA, 1920 non DUJARDIN, 1837)

Miura-imo

- Type locality: Koshiha, Kanazawa-ku, Yokohama City (fossil).
- Distribution: Sagami bay and southwards, Suruga bay, Kii peninsula (off Minabe), Tosa bay, Japan Sea (off Tsushima).
- Habitat: 50-200 m., sand.

G3901 *C. kinoshitai kinoshitai* (KURODA, 1956-a)

(= *C. (Virgiconus) tamikoe* SHIKAMA, 1973; *C. kinoshitai forma calliginosus* SHIKAMA, 1979)

Kinoshita-imo (= Tamiko-imo; Hana-kasumi-imo)

- Type locality: off Kii peninsula, central Honshū; 100 fms.
- Distribution: Izu peninsula and southwards, P11, northern Ogasawara islands, P6-P5, EC5, ECP4-ECP2, P2; Philippines, East China Sea.
- Habitat: 520-250 m., rubble.
- Original genus: *Chelyconus*.

G3902 *C. kinoshitai wistaria* SHIKAMA, 1970

Fuji-iro-imo

- Type locality: Bungo strait, between Shikoku and Kyūshū.
- Distribution: Kii peninsula and southwards, P5, EC5, East

China Sea, P2; Philippines.

- Habitat: 50-250 m., rubble.

G3903 *C. cocceus* REEVE, 1844 in 1843-65

(= *C. decrepitus* KIENER, 1845; *C. citrinus* KIENER, 1845 non GMELIN, 1791)

Furijjia-imo

- Type locality: 'New Holland' (Australia).
- Distribution: Kii peninsula (HABE & OKUTANI, 1985); western Australia.

G3904 *C. fulmen* REEVE, 1843

(= *Chelyconus fulmen kirai* KURODA, 1956)

Bekkō-imo (= Kira-bekkō-imo)

- Type locality: 'Island of Capul, Philippines (found on the reefs)'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2; Cheju is (Korea).
- Habitat: intertidal to 50 m., in fine gravel.

**Notes:** *C. modestus* SOWERBY I, 1833 is an unused senior synonym; referred to the ICZN, decision pending (KOHN, 1991).

G3905 *C. circumcisis* BORN, 1778

(= *C. laevis* GMELIN, 1791; *C. affinis* GMELIN, 1791; *C. dux* HWASS in BRUGUIÈRE, 1792 in 1789-1816; *Cucullus terebellum* RÖDING, 1798; *Cucullus purpuratus* RÖDING, 1798; *Conus brazeri* SOWERBY III, 1881)

Naga-bekkō-imo (= Gomadara-bekkō-imo)

- Type locality: 'Moluccas' (Maluku, Indonesia COOMANS *et al.*, 1985 in 1979-86).
- Distribution: central East China Sea and southwards, ECP4-ECP2, P2; Philippines to Vanuatu.
- Habitat: 4-200 m., sand around coral reefs.

G3906 *C. catus* HWASS in BRUGUIÈRE, 1792 in 1789-1816

(= *Cucullus nubilus* RÖDING, 1798; *Conus pusillus* LAMARCK, 1810; *C. discrepans* SOWERBY I, 1833; *C. nigropunctata* SOWERBY II, 1858; *C. purus* PEASE, 1863; *C. reflectus* SOWERBY III, 1877; *C. reflexus* SOWERBY III, 1887; *C. catus var. fusoolivaceus* DAUTZENBERG, 1937; *C. catus var. granulata* WILS *et al.*, 1971; *C. nigropunctatus var. elatensis* WILS *et al.*, 1971; *C. nigropunctatus var. peledi* WILS *et al.*, 1971; *Dendroconus (Floraconus) morrissoni* RAYBAUDI, 1991) Arare-imo (= Oni-sudare-imo)

- Type locality: 'à l'isle Saint-Domingue, soit a la Martinique...' (probably citing Favanne, erroneous); '...sur les côtes de l'isle-de-France et du Cap-de-Bonne-Espérance' (Mauritius and Cape of Good Hope, South Africa).
- Distribution: Hachijō island (Izu islands) and southwards, P11, northern Ogasawara islands, Kii peninsula, P5, EC5,

ECP4-ECP2, P2; Philippines, Indo-Pacific.

- Habitat: intertidal to 20 m., rocks and coral reefs.

**G3907 *C. striolatus* KIENER, 1845 in 1834-80**

(= *C. magus* var. *decurtata* DAUTZENBERG, 1910)

Hime-arare-imo

- Type locality: none designated.
- Distribution: Okinawa (Cape Kyan, tidepools, coll. Y. Gotō); southern Taiwan to Micronesia, Australia.
- Habitat: intertidal to subtidal, rocks.

**G3908 *C. monachus* LINNAEUS, 1758**

(= *Conus nebulosus* GMELIN, 1791; *Cucullus cinerarius*, *maculosus*, *guttatus*, all RÖDING, 1798; *Conus contusus* REEVE, 1848; *C. vincetus* A. ADAMS, 1854; *C. barbara* BRAZIER, 1898; *C. frostiana* BRAZIER, 1898)

Nise-meno-imo

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to 20 m., rocks.

**Note:** Katoreya-minashi (= Shiraboshi-bekkō-imo) *C. meleus* SOWERBY III, 1913 (type locality: 'Kii' - Kii peninsula, central Honshū) is known only from the holotype (RÖCKEL, KORN & KOHN, 1995); the present authors have been unable to determine the present distribution of this species.

**G3909 *C. ammiralis* LINNAEUS, 1758**

(= *C. ammiralis* var. *summus*, *ordinarius*, *occidentalis*, *Cedo-nulli*, all LINNAEUS, 1758; *C. vicarius* LINNAEUS, 1758; *C. ammiralis larvatus* GMELIN, 1791; *C. ammiralis archithalassus*, *extraordinarius*, *palinurus*, *personatus*, *polyzonus*, all HWASS in BRUGUIÈRE, 1792 in 1789-1816; *Cucullus petreus*, *princeps*, all RÖDING, 1798; *Cucullus equestris* RÖDING, 1798: 46 non RÖDING, 1798: 38; *Cucullus torquatus* RÖDING, 1798: 45 non RÖDING, 1798: 38; *Conus pseudoceconulli* BLAINVILLE, 1818; *C. ammiralis* var. *amboinensis* DONOVAN, 1822; *C. blainvilli* VIGNARD, 1829; *C. ammiralis temnes* IREDALE, 1930; *C. ammiralis* var. *australis* LAMARCK sensu DAUTZENBERG, 1937; *C. textile* var. *abbreviata* DAUTZENBERG, 1937; *C. ammiralis* var. *donovani* DAUTZENBERG, 1937; *C. hereditarius* DaMOTTA, 1987)

Tenjiku-imo

- Type locality: 'in *O. Americae meridionalis*' ('Central American seas'; erroneous). Redesignated 'Moluccan Islands' (COOMANS *et al.*, 1980 in 1979-86).
- Distribution: Kii peninsula and southwards, P11, northern Ogasawara islands; P5, ECP3-ECP2, P2, Philippines, Thailand, Australia to Marshall islands, Fiji, Red Sea.
- Habitat: intertidal to 250 m., fine sand or sandy mud.

**G3910 *C. generalis* LINNAEUS, 1767**

(= *Cucullus locumtenens* RÖDING, 1798; *Cucullus ornatus* RÖDING, 1798; *Conus spiculum* REEVE, 1849; *C. generalis* var. *pallida*, *regenfussi*, *subunicolor*, all DAUTZENBERG, 1937; *C. krabiensis* DaMOTTA, 1982) Akashima-minashi (= Rōsoku-imo)

- Type locality: 'India orientali' (Eastern India).
- Distribution: Hachijō island (Izu islands) and southwards, P11, Kii peninsula, P5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Thailand to Tuamotu Archipelago.
- Habitat: intertidal to 50 m., muddy sand around coral reefs.

**G3911 *C. planorbis* BORN, 1778**

(= *C. polyzonias* GMELIN, 1791; *C. ferrugineus* HWASS in BRUGUIÈRE, 1792 in 1789-1816)

Hiramaki-imo

- Type locality: none designated.
- Distribution: Hachijō island (Izu islands) and southwards, P11, Kii peninsula, P5, ECP4-ECP2, P2; Philippines, Indo-Pacific
- Habitat: intertidal to 60 m., on rocks on reefs and among dead coral.

**G3912 *C. vitulinus* (HWASS in BRUGUIÈRE, 1792 in 1789-1816)**

(= *C. cinctus* LINK, 1807; *C. vulpinus* SCHUBERT & WAGNER, 1829 non HWASS in BRUGUIÈRE, 1792 in 1789-1816; *C. praeclarus* FENEALUX, 1942)

Sarasa-modoki

- Type locality: 'l'Océan Asiatique...aux isles de France et de Madagascar' (Mauritius and Madagascar, Indian Ocean).
- Distribution: Hachijō island (Izu islands) and southwards, P11, Kii peninsula, P5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to 60 m., rocks on reefs and among dead coral.

**G3913 *C. striatellus* LINK, 1807**

(= *C. lineatus* HWASS in BRUGUIÈRE, 1792 in 1789-1816 non SOLANDER in BRANDER, 1766; *C. lictor* BOIVIN, 1864; *C. pulchrelineatus* HOPWOOD, 1921; *C. lineatus granulatus* BARROS & CUNHA, 1933)

Yukige-imo

- Type locality: Diego Suarez, Madagascar (eastern Africa, Indian Ocean).
- Distribution: Kii peninsula (off Shirahama; Sumisaki; Kushimoto, 40-50 m. KOYAMA, 1993), Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific to Fiji.
- Habitat: intertidal to 20 m., sand and coral reefs.

**G3914 *C. connectens* A. ADAMS, 1855-k**

(= *C. cinctus* SWAINSON, 1822 non BOSCH, 1801, *nec*

LINK, 1807, *nec* BORSON, 1820; *C. pulchellus*  
SWAINSON, 1822 *non* RÖDING, 1798; *C. fasciatus* A.  
ADAMS, 1854 *non* SCHRÖTER, 1803; *C. bifasciatus*  
SOWERBY II, 1857; *C. circumactus* IREDALE, 1929; *C.*  
*hammatus* BARTSCH & REHDER, 1943)

Shima-imo (= Yayoi-imo)

- Type locality: 'China'.
- Distribution: Kii peninsula and southwards, P5, ECP3-ECP2, P2; Philippines to Hawaii.
- Habitat: 10-240 m., sand or sand and rubble.

**G3915 *C. litoglyphus* HWASS in BRUGUIÈRE, 1792 in 1789-1816**

(= *Cucullus cinamomeus* RÖDING, 1798; *Cucullus orleanus* RÖDING, 1798; *Conus subcapitaneus* LINK, 1807; *C. bicolor* SOWERBY I, 1833; *C. albomaculatus* SOWERBY II, 1841; *C. lacinulatus* KIENER, 1845; *C. carpenteri* CROSSE, 1865; *C. seychellensis* G. & H. NEVILL, 1874; *C. inermis* TINKER, 1952)

Naga-sarasa-minashi

- Type locality: 'Les Mers des Grandes Indes'.
- Distribution: Hachijō island (Izu islands) and southwards, P11, northern Ogasawara islands, Kii peninsula and southwards, P5, ECP4-ECP2; Indo-Pacific, east Africa to Hawaii.
- Habitat: subtidal to 60 m., on sand and under dead coral.

**G3916 *C. furvus* REEVE, 1843 in 1843-65**

(= *C. lignarius* REEVE, 1843 in 1843-65; *C. crepusculum* REEVE, 1843 in 1843-65; *C. cecilei* KIENER, 1845; *C. aegrotus* REEVE, 1849; *C. granifer* REEVE, 1849; *C. albicans* SOWERBY II, 1857; *C. multilineatus* SOWERBY III, 1875; *C. albus* SOWERBY III, 1887; *C. polygrammus* TOMLIN, 1937-a; *C. neobuxus* DaMOTTA, 1991)

Menneru-imo (= Jujukake-imo; Samidare-imo; Itosuji-imo)

- Type locality: 'Islands of Ticao and Masbate, Philippines (found in sandy mud at low water)'.
- Distribution: 'Ryūkyū islands' (WALLS, 1979), 'Philippines to Japan' (RÖCKEL, KORN & KOHN, 1995); Andaman islands, eastern Malaysia, Indonesia, Papua New Guinea.

**G3917 *C. magus* LINNAEUS, 1758**

(= *Conus raphanus* HWASS in BRUGUIÈRE, 1792 in 1789-1816; *Cucullus caesius* RÖDING, 1798; *Conus metcalfeii*, *epistomium*, *ustulatus*, all REEVE, 1843 in 1843-65; *C. fucatus* REEVE, 1849; *C. assimilis* A. ADAMS, 1854; *C. circae* CHEMNITZ *sensu* SOWERBY II, 1858; *C. rollandi* BERNARDI, 1860; *C. consul* BOIVIN, 1864; *C. frauenfeldi* CROSSE, 1865; *C. signifer* CROSSE, 1865; *C. tasmaniae* SOWERBY II, 1866; *C. borneensis* SOWERBY II, 1866; *C. epistomioides* WEINKAUFF, 1875; *C. (Chelyconus) worcesteri* BRAZIER, 1891; *C.*

(*Phasmoconus*) *ambaroides* SHIKAMA, 1977; *C. fulvobullatus* DaMOTTA, 1982; *C. cernohorskyi* DaMOTTA, 1983)

Yaki-imo (= Kaen-imo)

- Type locality: none designated.
- Distribution: Hachijō island (Izu islands) and southwards, P11, northern Ogasawara islands, southern Kyūshū and southwards, ECP4-ECP2, P2; Philippines to Fiji.
- Habitat: intertidal to 100 m., rocks and dead coral.

**G3918 *C. consors* SOWERBY I, 1833**

(= *C. anceps* A. ADAMS, 1854; *C. daullei* CROSSE, 1858; *C. kobelti* LÖBBECKE, 1882; *C. turschi* DaMOTTA, 1985)

Suji-sarasa-minashi (= Fukusuke-yaki-imo)

- Type locality: Singapore.
- Distribution: Okinawa islands and southwards, P2; Philippines, Indo-Pacific to Melanesia, Australia.
- Habitat: subtidal to 200 m., in sand and silt.

**G3919 *C. carinatus* SWAINSON, 1822**

Karigane-yaki-imo

- Type locality: 'Asiatic Ocean'.
- Distribution: Okinawa islands and southwards, P2; Philippines, Indo-Pacific to Melanesia.
- Habitat: subtidal to 200 m., sand.

**G3920 *C. suturatus* REEVE, 1843 in 1843-65**

(= *C. turbinatus* SOWERBY II, 1858; *C. suturatus sandwichensis* WALLS, 1978)

Sakura-imo

- Type locality: none originally given; designated 'Port Essington, Australia' (KOHN, 1959).
- Distribution: Izu islands and southwards, P6, P11, northern Ogasawara islands, Amami islands and southwards, ECP3-ECP2, P2; Philippines to Australia.
- Habitat: subtidal to 150 m., mud around coral reefs.

**G3921 *C. radiatus* GMELIN, 1791**

(= *C. martinianus* REEVE, 1843 in 1843-65)

Kuri-iro-imo

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Papua New Guinea to Fiji.
- Habitat: 10-30 m., mud and muddy sand.

**G3922 *C. ochroleucus* GMELIN, 1791**

(= *Conus praefectus* HWASS in BRUGUIÈRE, 1792 in 1789-1816; *Cucullus eburneus* RÖDING, 1798; *Conus sulciferus* A. ADAMS, 1854; *C. fasciatus* SOWERBY II, 1858; *C. tmetus* TOMLIN, 1937-a; *C. pilkeyi* PETUCH, 1974)

Tsuge-imo (= Pirukii-imo)

- Type locality: none designated.
- Distribution: P2; Taiwan and southwards, Philippines,

Papua New Guinea to Fiji.

- Habitat: 6-90 m., mud and coarse sand.

**G3923 *C. stramineus* LAMARCK, 1810**

(= *C. alveolus* SOWERBY I, 1833; *C. nissus* KIENER, 1845 non DILLWYN, 1817; *C. roseus* KIENER, 1845 non FISCHER, 1807, nec DILLWYN, 1817; *C. kieneri* REEVE, 1849; *C. fuscomaculatus* E. A. SMITH, 1877; *C. mulderi* FULTON, 1936; *C. stramineus amplus* RÖCKEL & KORN, 1992)

Azarashi-imo

- Type locality: 'l'Océan Asiatique' (Asian seas).
- Distribution: P2; Taiwan and southwards, Philippines, South China Sea, Indonesia, Papua New Guinea to Solomon islands.
- Habitat: subtidal to 50 m., sand.

**G3924 *C. keatiformis* SHIKAMA & ŌISHI in SHIKAMA, 1977**

Chagusuri-imo-modoki

- Type locality: 'East China Sea'.
- Distribution: P2; East China Sea, Taiwan and southwards, Philippines, Indo-Pacific.
- Habitat: intertidal to 50 m., sand.

**G3925 *C. cinereus* HWASS in BRUGUIÈRE, 1792 in 1789-1816**

(= *Cucullus clavatus* RÖDING, 1798; *Conus caeruleus* LAMARCK, 1810; *C. nissus* CHEMNITZ sensu DILLWYN, 1817; *C. exaratus* REEVE, 1843 in 1843-65; *C. bernardii*, *gabrielli*, *gubba*, all KIENER, 1845; *C. politus* WEINKAUFF, 1875)

Hai-iro-imo

- Type locality: 'l'Océan Asiatique' (Asian seas).
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Indo-Pacific to New Caledonia, Vanuatu.
- Habitat: 10-50 m., rubble.

**G3926 *C. lynceus* SOWERBY II, 1858**

(= *C. pretiosus* G. & H. NEVILL, 1874)

Chagusuri-imo

- Type locality: Moluccas (Maluku, Indonesia).
- Distribution: P2; Taiwan and southwards, Philippines, Indonesia, Moluccas to Solomon islands, Australia (Queensland).
- Habitat: 20-50 m.

**G3927 *C. vexillum vexillum* GMELIN, 1789**

(= *Conus princeps* HOLTEN, 1802 non LINNAEUS, 1758; *C. leopardus* DILLWYN, 1817 non RÖDING, 1798; *C. sulphuratus* KIENER, 1845; *C. robillardii* BERNARDI, 1858)

Kaba-minashi (= Kinkan-imo)

- Type locality: none designated.

- Distribution: Hachijō island and southwards, P11, northern Ogasawara islands. Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Hawaii, French Polynesia to Australia.

- Habitat: intertidal to 70 m., sand, coarse sand and stones; rocks; under dead coral.

**G3928 *C. vexillum sumatrensis* HWASS in BRUGUIÈRE, 1792 in 1789-1816**

Sumatora-imo

- Type locality: Sumatra, Indonesia.
- Distribution: Okinawa and southwards, P2; Philippines, western Pacific.
- Habitat: intertidal to 20 m., rocks.

**G3929 *C. miles* LINNAEUS, 1758**

Yanagi-shibori-imo

- Type locality: 'in India'.
- Distribution: Hachijō island and southwards, P11, northern Ogasawara islands, Kii peninsula, P5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to 20 m., on rocks and gravel.

**G3930 *C. capitaneus* LINNAEUS, 1758**

(= *C. classarius* HWASS in BRUGUIÈRE, 1792 in 1789-1816 nom. dub.; *C. ferrugineus* BOSC, 1801 non HWASS in BRUGUIÈRE, 1792 in 1789-1816; *C. ceciliae* CHENU sensu CROSSE, 1858; *C. capitaneus forma virgineus* WILS, 1972)

Sarasa-minashi

- Type locality: 'in Asia', restricted to 'Larantuka, Flores, Indonesia' (COOMANS *et al.*, 1983).
- Distribution: Hachijō island and southwards, P11, northern Ogasawara islands, P5, EC5, ECP4-ECP2, P2; Philippines, eastern Africa to Australia, Tonga.
- Habitat: intertidal to 20 m., rocks and coral, sand.

**G3931 *C. mustelinus* HWASS in BRUGUIÈRE, 1792 in 1789-1816**

(= *C. australis* SCHRÖTER, 1803 nom. dub.; *C. (R.) melinus* SHIKAMA, 1964; *C. (R.) zukiiae* SHIKAMA, 1979)

Itachi-imo (= Mujina-imo; Kawamura-imo)

- Type locality: 'l'Océan Asiatique' (Asian seas).
- Distribution: Hachijō island and southwards, P11, northern Ogasawara islands, Kii peninsula, P6-P5, EC5, ECP4-ECP2, P2; Philippines to eastern Australia, Fiji.
- Habitat: intertidal to 20 m., sand, rocks, under dead coral.

**G3932 *C. capitaneus* FULTON, 1938**

Yūnagi-minashi

- Type locality: Kii peninsula, central Honshū.
- Distribution: west off Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986), Izu peninsula and southwards, P11, Kii peninsula, P5-P6, EC5, ECP4-ECP2, East China Sea,



P2; Philippines, New Caledonia.

- Habitat: 80-500 m., rubble.

**G3933 *C. kiicumulus* (AZUMA, 1982-a)**

(= *Rhizoconus nebulosus* AZUMA, 1973-b non GMELIN, 1791 non HWASS, 1792 in 1789-1816)

Uguisu-imo (= Usugumo-imo)

- Type locality: off Nada (fishing port), Gobō district, Kii peninsula, central Honshū.
- Distribution: southern Kii peninsula, southwestern Shikoku (Kashiwajima).
- Habitat: 40-60 m., sand.
- Original genus: *Rhizoconus*.

**Notes:** Hime-sakura-imo *Conus suturatus kashiwajimensis* SHIKAMA, 1971-b is a species of uncertain status. RÖCKEL (1991) synonymised it with *C. kiicumulus*, but the type material is apparently lost; the original figures and description are not sufficient to determine the validity of the species.

**G3934 *C. rattus* HWASS in BRUGUIÈRE, 1792 in 1789-1816**

(= *C. taitensis* HWASS in BRUGUIÈRE, 1792 in 1789-1816; *C. chemnitzii* DILLWYN, 1817; *C. taiheitensis sensu* REEVE, 1843 in 1843-65; *C. viridis* SOWERBY, 1857; *C. semivelatus* SOWERBY III, 1882; *C. tahitiensis sensu* DAUTZENBERG, 1933)

Hai-iro-minashi (= Mushiro-imo-modoki; Koge-imo)

- Type locality: 'les Mers d'Amérique' (erroneous).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2; Indo-Pacific.
- Habitat: intertidal to 20 m., rocks.

**G3935 *C. pertusus* HWASS in BRUGUIÈRE, 1792 in 1789-1816**

(= *C. amabilis* LAMARCK, 1810; *C. festivus* DILLWYN, 1817)

Barafu-imo

- Type locality: 'les Mers des grandes Indes'.
- Distribution: Hachijō island and southwards, P11, northern Ogasawara islands, Kii peninsula, P5, EC5, ECP4-ECP2; Philippines, Indo-Pacific.
- Habitat: intertidal to 120 m., sand, under coral heads.

**G3936 *C. corallinus* KIENER, 1845 in 1834-80**

Momo-iro-sango-minashi

- Type locality: none originally given; designated 'Mactan island, Philippines' (COOMANS *et al.*, 1985).
- Distribution: Hachijō island and southwards, P11, northern Ogasawara islands, Okinawa, ECP2, P2; Philippines, Papua New Guinea to New Caledonia.
- Habitat: 6-240 m., coral, sponges & seaweed; around coral reefs.

**G3937 *C. sazanka* SHIKAMA, 1970**

(= *C. yoshioi* AZUMA, 1973-a; *C. kurzi* PETUCH, 1974) Sazanka-imo (= Yuyake-imo)

- Type locality: southwestern Kōchi prefecture, southern Shikoku.
- Distribution: Izu islands (Miyake island, 100-172 m. TSUCHIDA & KUROSUMI, 1994), Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Indonesia to New Caledonia.
- Habitat: 50-200 m., coral reefs.

**G3938 *C. lischkeanus* WEINKAUFF, 1875**

(= *C. kermadecensis* IREDALE, 1912; *C. okamotoi* KURODA & ITŌ, 1961 *nom. nud.*; *C. (R.) coffea* (GMELIN) *sensu* SHIKAMA & HORIKOSHI, 1963; *C. lischkeanus tropicensis* COOMANS & FILMER, 1985; *C. subroseus* RÖCKEL & KORN, 1992)

Rishike-imo (= Okamoto-imo; Okamoto-imo-modoki; Nettai-imo)

- Type locality: 'Insel Kiusiu' (Kyūshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Mishima, J1), EC5, ECP4-ECP2, P2; Philippines, Australia to New Zealand (Kermadec islands).
- Habitat: intertidal to 200 m., sand and coral rubble.

**G3939 *C. tisi* LAN, 1978**

Yanbaru-ō-oimo-gai

- Type locality: near Diao-Yu-Tai (Senkaku) islands, off northeastern Taiwan.
- Distribution: ECP4 (north off Tanegashima), southern Okinawa prefecture; northeastern Taiwan.
- Habitat: 100-200 m., sand.

**G3940 *C. eximius* REEVE, 1849 in 1843-65**

Usu-zumi-imo

- Type locality: Moluccas (Maluku, Indonesia).
- Distribution: P2; Taiwan and southwards, Philippines, Papua New Guinea, bay of Bengal.
- Habitat: 20-100 m., mud.

**G3941 *C. virgo* LINNAEUS, 1758**

(= *C. flavocinctus* LINK, 1807 *nom. nud.*)

Otome-imo

- Type locality: none given in LINNAEUS (1758); '*in Africano oceano*' (LINNAEUS, 1767).
- Distribution: Hachijō island and southwards, P11, northern Ogasawara islands, Kii peninsula, P5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: subtidal to 15 m., sand and rubble, coral.

**G3942 *C. coelinae* CROSSE, 1858-a**

(= *C. spiceri* BARTSCH & REHDER, 1943; *C. pseudocoelinae* DELSAERDT, 1989)

Sa-otome-imo (= Hawai-sa-otome-imo)

- Type locality: New Caledonia.

- Distribution: Hachijō island and southwards, P11, northern Ogasawara islands, Kii peninsula, P5, ECP4-ECP2, P2; Philippines, Hawaii, New Caledonia.
- Habitat: 50-100 m., sand and rubble, coral.

G3943 *C. kintoki* **HABE & KOSUGE, 1970-b**

Kintoki-imo

- Type locality: South China Sea.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, South China Sea.
- Habitat: 100-200 m., rocks.

**Notes:** *C. berdulinus* VEILLARD, 1972 (type locality: Réunion, Indian Ocean) was recorded from the Kii peninsula (off Nada KOYAMA, 1983), but the present authors have been unable to confirm distribution of this species in Japan. See also EMERSON (1984); EMERSON & SAGE (1987).

G3944 *C. flavidus* **LAMARCK, 1810**

(= *C. neglectus* PEASE, 1860 *non* A. ADAMS, 1854; *Lithoconus peasei* BRAZIER, 1877; *C. erythraezonatus* BARROS & CUNHA, 1933)

Kinu-katsugi (= Nunome-kinu-katsugi)

- Type locality: 'Guinée?', designated 'New Guinea' (WILS, 1986).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2; entire Indo-Pacific.
- Habitat: intertidal to 20 m., rocks.

G3945 *C. frigidus* **REEVE, 1848 in 1843-65**

(= *C. maltzanius* WEINKAUFF, 1873)

Fukkura-kinu-katsugi

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, tropical western Pacific, central Pacific.
- Habitat: intertidal to 5 m., rocks and coral rubble.

G3946 *C. emaciatius* **REEVE, 1849 in 1843-65**

Yase-imo

- Type locality: 'Philippine Islands'.
- Distribution: Hachijō island and southwards, P11, northern Ogasawara islands, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Red Sea to Polynesia.
- Habitat: intertidal to 20 m., rocks and coral rubble.

G3947 *C. moreleti* **CROSSE, 1858-b**

(= *C. elongatus* REEVE, 1843 in 1843-65 *non* DILLWYN, 1817; *C. oblitus* REEVE, 1849 *non* MICHELOTTI, 1847)

Ogokuda-imo

- Type locality: none designated.
- Distribution: Hachijō island and southwards, P11, northern Ogasawara islands, Kii peninsula, P6-P5, ECP4-ECP2; Indo-Pacific, east Africa, Hawaii to French Polynesia.

- Habitat: subtidal to 50 m., coarse sand and stones.

G3948 *C. distans* **HWASS in BRUGUIÈRE, 1792 in 1789-1816**

(= *C. waterhouseae* BRAZIER, 1896; *C. kenyonae* BRAZIER, 1896; *C. kenyonae* var. *arrowsmithensis* BRAZIER, 1896; *C. (Rhizoconus) chinoi* SHIKAMA, 1970)

Ibo-kama-imo (= Chino-imo)

- Type locality: 'dans l'Océan pacifique, sur les côtes de la nouvelle Zélande' ('Pacific Ocean, on the coasts of New Zealand'; species is not known from New Zealand).
- Distribution: Hachijō island and southwards, P11, northern Ogasawara islands, Kii peninsula, P6-P5, western Kyūshū, ECP4-ECP2, P2; Philippines, Hawaii to French Polynesia.
- Habitat: intertidal to 20 m., on rocks and coral reefs.

G3949 *C. muriculatus* **SOWERBY I, 1833**

(= *C. muriculatus* var. *laevigata* SOWERBY I, 1833; *C. sugillatus* REEVE, 1843)

Nagashima-imo

- Type locality: Masbate, Philippines.
- Distribution: Miyake island (Izu islands) and southwards, P11, northern Ogasawara islands, Kii peninsula, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific to New Caledonia, Fiji.
- Habitat: intertidal to 70 m., sand.

G3950 *C. lividus* **HWASS in BRUGUIÈRE, 1792 in 1789-1816**

(= *Cucullus monachus* RÖDING, 1798; *Conus plebejus* LINK, 1807; *C. primula* REEVE, 1849)

Ibo-shima-imo

- Type locality: 'Isles Antilles' (erroneous).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: subtidal to 20 m., rocks.

G3951 *C. sanguinolentus* **QUOY & GAIMARD, 1834**

Nise-ibo-shima-imo (= Ibo-shima-imo-modoki)

- Type locality: 'du havre Carteret de la Nouvelle-Irlande' (Kilinaia (Carteret) island, off Bougainville, Solomon islands).
- Distribution: Ogasawara islands (Chichijima FUKUDA, 1995) and southwards, P11, Okinawa islands, ECP2, P2; Philippines, western Pacific.
- Habitat: intertidal to 20 m., rocks.

G3952 *C. balteatus* **SOWERBY I, 1833**

(= *C. cibielii* KIENER, 1845; *C. pigmentatus* ADAMS & REEVE, 1848; *C. moussoni* CROSSE, 1865; *C. pigmentatus concolor* BARROS & CUNHA, 1933)

Beni-itadaki-imo

- Type locality: none originally given; designated 'Mascarene islands' (Mauritius & Réunion) (COOMANS *et al.*, 1982).

- Distribution: Hachijō island and southwards, P11, northern Ogasawara islands, Kii peninsula, P5, EC5, ECP4-ECP2; Indo-Pacific, Mozambique to Australia, Fiji.

- Habitat: intertidal to 20 m., coral reefs, rocks.

G3959 *C. cernicus* H. ADAMS, 1869

(= *C. tenuisulcatus* SOWERBY III, 1873; *C. propinquus* E. A. SMITH, 1877; *C. circumclausus* FENAUX, 1942)  
Sazanami-imo

- Type locality: Barkly island, Mauritius.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific, Mauritius to Australia.
- Habitat: intertidal to 20 m., rocks, coral reefs.

G3954 *C. parvulus* LINK, 1807 in 1806-08

(= *Virroconus imperator* WOOLACOTT, 1956)  
Kikyō-imo

- Type locality: none designated.
- Distribution: Hachijō island and southwards, P11, northern Ogasawara islands, Kii peninsula, P5, ECP4-ECP2; Indo-Pacific, Australia.
- Habitat: intertidal, rocks.

G3955 *C. roseus* LAMARCK, 1810

Kasumi-imo

- Type locality: 'Antilles' (erroneous).
- Distribution: Okinawa and southwards, ECP2, P2; Philippines.
- Habitat: intertidal, rocks.

G3956 *C. geographus* LINNAEUS, 1758

Amboina (= Habu-gai; Hamanaka-gai)

- Type locality: 'in Indiis'.
- Distribution: Izu islands and southwards, P11, northern Ogasawara islands, P6-P5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to 20 m., sand among coral, rocks.

G3957 *C. tulipa* LINNAEUS, 1758

(= *Cucullus purpureus* RÖDING, 1798; *Conus (Tuliparia) nebulosa* SWAINSON, 1840; *C. (Chelyconus) barbonicus* H. ADAMS, 1868)

Shiro-amboina

- Type locality: none designated.
- Distribution: Hachijō island and southwards, P11, northern Ogasawara islands, P6-P5, southern Kyūshū, ECP4-ECP2, P2; Philippines, Mozambique to French Polynesia.
- Habitat: intertidal to 20 m., coral reefs and rocks.

G3958 *C. obscurus* SOWERBY I, 1833

(= *C. halitropus* BARTSCH & REHDER, 1943)  
Murasaki-amboina

- Type locality: 'Coast of Arabia'.

- Distribution: Hachijō island and southwards, P11, northern Ogasawara islands, Kii peninsula, P5, ECP4-ECP2, P2; Philippines, southern and eastern Africa to French Polynesia.

- Habitat: intertidal to 40 m., rocks and coral reefs.

G3959 *C. pennaceus* BORN, 1778

(= *C. rubiginosus* HWASS in BRUGUIÈRE, 1792 in 1789-1816; *C. praelatus* HWASS in BRUGUIÈRE, 1792 in 1789-1816; *Cucullus aureus* RÖDING, 1798 non HWASS in BRUGUIÈRE, 1792 in 1789-1816; *Conus colubrinus* LAMARCK, 1810; *C. stellatus* KIENER, 1845; *C. madagascariensis* SOWERBY II, 1857; *C. racemosus* SOWERBY III, 1874; *C. omaria* var. *marmoricolor* MELVILL, 1900; *C. lohri* KILBURN, 1972; *C. quasimagnificus* DaMOTTA, 1982; *C. rubropennatus* DaMOTTA, 1982; *C. pennaceus bazarutensis* FERNANDES & MONTEIRO, 1988; *C. pennaceus ganensis* DELSAERDT, 1988; *C. pennaceus behelokensis* LAUER, 1989; *C. episcopus mauritiensis* LAUER, 1992)  
Ajiro-imo (= Hon-ajiro-imo; Akasabi-imo; Murasaki-ajiro-imo)

- Type locality: 'China'.
- Distribution: Kii peninsula and southwards, P5, southern Kyūshū, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to 50m on coral reefs; in coral rubble, sand or sandy mud.

G3960 *C. omaria* HWASS in BRUGUIÈRE, 1792 in 1789-1816

(= *C. sindon* REEVE, 1843 in 1843-65; *C. convolutus* SOWERBY II, 1858; *C. omaria* var. *magoides* MELVILL, 1900; *C. patonganus* DaMOTTA, 1982; *C. viperinus* LAUER, 1986)

Minami-ajiro-imo (= Shitan-imo)

- Type locality: 'l'Océan Asiatique' (Asian seas).
- Distribution: Kii peninsula, southern Kyūshū, ECP4-ECP2, P2; Philippines, Indo-Pacific, Australia.
- Habitat: intertidal to 50 m., coral reefs, sand.

G3961 *C. episcopus* HWASS in BRUGUIÈRE, 1792 in 1789-1816

Sōjō-imo

- Type locality: 'Les Mers des grandes Indes'.
- Distribution: Kii peninsula and southwards, P5, southern Kyūshū, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: subtidal to 20 m., sand.

G3962 *C. elisae* KIENER, 1845 in 1834-80

(= *C. cholmondeleyi* MELVILL, 1900)

Eriize-imo

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-

ECP2, P2; Philippines, western Pacific.

- Habitat: intertidal to 50 m., rocks.

**G3963 *C. magnificus* REEVE, 1843 in 1843-65**

(= *C. episcopus* var. *elongata* DAUTZENBERG, 1937)

Naga-ajiro-imo

- Type locality: 'Matnog, Island of Luzon, Philippines'.
- Distribution: Hachijō island and southwards, P11, northern Ogasawara islands, Kii peninsula, P5, southern Kyūshū, ECP4-ECP2, P2; Philippines, Australia, Solomon islands to Marshall islands.
- Habitat: 5-50 m., rocks and coral reefs.

**G3964 *C. crocatus* LAMARCK, 1810**

(= *C. thailandis* DaMOTTA, 1978; *C. magister* DOITEAU, 1981)

Kohaku-imo (= Safuran-imo; Shamu-kohaku-imo)

- Type locality: 'Mer des grandes Indes'.
- Distribution: Kii peninsula (Cape Shio KOYAMA, 1993) and southwards, P5, ECP2; western Pacific, Indian Ocean.
- Habitat: subtidal to 80 m., on coral reefs; in sand or sandy mud.

**G3965 *C. textile* LINNAEUS, 1758**

(= *Conus undulatus* LIGHTFOOT, 1786; *C. archiepiscopus* HWASS in BRUGUIÈRE, 1792 in 1789-1816; *C. auriger* RÖDING, 1798; *C. gloriamaris* RÖDING, 1798 non CHEMNITZ, 1777; *C. auratus* RÖDING, 1798 non HWASS in BRUGUIÈRE, 1792 in 1789-1816; *C. panniculus* LAMARCK, 1810; *C. pyramidalis* LAMARCK, 1810; *C. reteareum* PERRY, 1811; *C. communis* SWAINSON, 1840; *C. verriculum* REEVE, 1843 in 1843-65; *C. textilinus* KIENER, 1845; *C. concatenatus* KIENER, 1845; *C. dilectus* GOULD, 1850; *C. scriptus* SOWERBY II, 1858; *C. tigrinus* SOWERBY II, 1858; *C. corbula* SOWERBY II, 1858; *C. textile* var. *euertios* SOWERBY III, 1882; *C. eumitus* TOMLIN, 1926; *C. textilis osullivani* IREDALE, 1931; *C. textile* var. *ponderosa* DAUTZENBERG, 1932; *C. textile* var. *loman* DAUTZENBERG, 1937; *C. sirventi* FENAUX, 1943; *C. textile dahlakensis* DaMOTTA, 1982; *C. textile neovicarius* DaMOTTA, 1982; *C. cholmondelyi forma fascifer* LAUER, 1987; *C. cyanosus* LAUER, 1987; *C. suzannae* VAN ROSSUM, 1990)

Tagayasan-minashi (= Komon-tagayasan)

- Type locality: '*ad Bandam Asiae*' (Banda, Indonesia).
- Distribution: Hachijō island and southwards, P11, northern Ogasawara islands, Kii peninsula, P5, EC5, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific, Australia.
- Habitat: intertidal to 50 m., on coral reefs; under rocks, in sand.

**G3966 *C. canonicus* HWASS in BRUGUIÈRE, 1792 in 1789-1816**

(= *C. rubescens* BONNET, 1864; *C. condensus* SOWERBY III, 1886; *C. panniculus* LAMARCK *sensu* KURODA, 1941; *Darioconus panniculus sensu* KURODA, 1960)

Hime-tagayasan

- Type locality: 'Les Mers des grandes Indes'.
- Distribution: Hachijō island and southwards, P11, northern Ogasawara islands, Kii peninsula, P5, ECP4-ECP2, P2; Philippines, east Africa to French Polynesia.
- Habitat: intertidal to 30 m., under coral; in coarse sand and stones or sand.

**G3967 *C. retifer* MENKE, 1829**

(= *C. textile* var. *sulcata* SOWERBY I, 1834 non HWASS in BRUGUIÈRE, 1792 in 1789-1816; *C. solidus* SOWERBY II, 1841 non GMELIN, 1791)

Hana-imo-gai

- Type locality: 'Philippines and Society islands' (SOWERBY II, 1858).
- Distribution: Hachijō island and southwards, P11, northern Ogasawara islands, EC5, ECP4-ECP2, P2; Philippines, Mozambique to Hawaii, French Polynesia.
- Habitat: intertidal to 40 m. on coral reefs, in sand and rubble.

**G3968 *C. aureus* HWASS in BRUGUIÈRE, 1792 in 1789-1816**

(= *C. auricomus* LAMARCK, 1810 non HWASS in BRUGUIÈRE, 1792 in 1789-1816; *C. paulucciae* SOWERBY III, 1877)

Kogane-imo (= Ōgon-imo)

- Type locality: 'l'Océan indien, surtout les côtes de la Chine' (Indian Ocean, principally the coast of China).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, tropical Indo-Pacific, Australia to Tuamotu Archipelago.
- Habitat: intertidal to 30 m., under rocks on reefs.

**G3969 *C. legatus* LAMARCK, 1810**

(= *C. musivum* SOWERBY I, 1833)

Kinran-imo

- Type locality: 'Mers des grandes Indes'
- Distribution: Hachijō island and southwards, P11, northern Ogasawara islands, Kii peninsula, P5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Mozambique to French Polynesia.
- Habitat: 3-50 m. on coral reefs, in sand or coral rubble.

**G3970 *C. abbas* HWASS in BRUGUIÈRE, 1792 in 1789-1816**

(= *Cylindrus gillei* JOUSSEAUME, 1884; *C. abbas* var. *grisea* DAUTZENBERG, 1937)

Amime-tagayasan

- Type locality: 'Mers des grandes Indes'.

- Distribution: Kii peninsula (SHIKAMA & CHINŌ, 1970), P2; Taiwan, Indo-Pacific, Indonesia.
- Habitat: subtidal to 50 m., coral reefs.

**G3971 *C. aulicus* LINNAEUS, 1758**

(= *Conus auratus* HWASS in BRUGUIÈRE, 1792 in 1789-1816; *Cucullus aurifer* RÖDING, 1798; *Conus particolor* PERRY, 1810 in 1810-11; *C. aulicus propenudis* MELVILL, 1900; *C. aulicus* var. *aurantia* LAMARCK sensu DAUTZENBERG, 1937; *C. gracianus* DaMOTTA & BLÖCHER, 1982)

Tsubo-imo-gai

- Type locality: 'in Asia'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: subtidal to 30 m., coral reefs; on coral rubble.

**G3972 *C. auricomus* HWASS in BRUGUIÈRE, 1792 in 1789-1816**

(= *C. dactylosus* KIENER, 1845; *C. clavus* sensu Y. HIRASE, 1914; KURODA, 1928; KURODA & HABE, 1952-a; *C. debilis* FENAUX, 1943)

Hoso-tagayasan

- Type locality: 'Mers des grandes Indes'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific, east Africa to Hawaii, Tuamotu Archipelago.
- Habitat: 3-40 m. on coral reefs, in sand.

**G3973 *C. figulinus* LINNAEUS, 1758**

(= *C. minimus* LINNAEUS, 1758; *Voluta fagina* MARTYN, 1792 (invalid: ICZN op. 456); *Cucullus buxeus* RÖDING, 1798; *C. laroisii* KIENER, 1847; *C. figulinus violascens* BARROS & CUNHA, 1933)

Suji-imo-gai (= Sudare-imo)

- Type locality: none designated.
- Distribution: southern Shikoku and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Australia to Fiji.
- Habitat: intertidal to 20 m., fine to medium sand.

**G3974 *C. betulinus* LINNAEUS, 1758**

(= *Cucullus medusae* RÖDING, 1798; *Conus betulinus* var. *immaculata* DAUTZENBERG, 1906; *C. betulinus* var. *alternans*, *tabulata*, *plurizonata*, *scripta*, *paucimaculata*, all DAUTZENBERG, 1937; *C. zulu* PETUCH, 1979)

Daimyō-imo

- Type locality: none originally given; designated 'island of Java, Indonesia' (COOMANS *et al.*, 1982 in 1979-86).
- Distribution: southern Shikoku and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Australia to New Caledonia.
- Habitat: intertidal to 50 m., sand or sandy mud.

**G3975 *C. quercinus* LIGHTFOOT, 1786**

(= *C. cingulum* GMELIN, 1791; *C. buxeus* LINK, 1807

non RÖDING, 1798; *C. ponderosus* BECK sensu SOWERBY II, 1858; *C. akabensis* SOWERBY III, 1887; *C. egregius* SOWERBY III, 1914; *C. quercinus* var. *albus* SHAW, 1915; *C. fulvostriatus* FENAUX, 1942; *C. albonerosa* GARRARD, 1966)

Rōsoku-gai (= Hime-sudare-imo)

- Type locality: 'des Indes orientales' (East Indies).
- Distribution: Bōsō peninsula, Hachijō island and southwards, P11, northern Ogasawara islands, P7-P5, EC5, ECP4-ECP2, P2; Philippines, Indonesia, Hawaii to Australia.
- Habitat: subtidal to 70 m., in sand.

**G3976 *C. striatus* LINNAEUS, 1758**

(= *C. floridus* SOWERBY II, 1858; *C. chusaki* DaMOTTA, 1978; *C. subfloridus* DaMOTTA, 1985) Nishiki-minashi (= Oboro-nishiki-minashi)

- Type locality: '*Versus littora Hitoe*' (coast of Hitu, Ambon island, Moluccas (Maluku), Indonesia); '*inque O. Africano*' added in LINNAEUS (1767).
- Distribution: Hachijō island and southwards, P11, northern Ogasawara islands, Kii peninsula, P5, EC5, ECP4-ECP2, P2; Philippines, South Africa, Red Sea to Hawaii, French Polynesia.
- Habitat: intertidal to 20 m. on coral reefs; in sand and under dead coral slabs.

**G3977 *C. bullatus* LINNAEUS, 1758**

(= *Conus nubecula* GMELIN, 1791; *Cucullus parvus* RÖDING, 1798; *Cucullus laganum* RÖDING, 1798; *Conus bullatus* var. *articulata* LAMARCK sensu DAUTZENBERG, 1937; *Textilia bullatus forma pongo* SHIKAMA & ŌISHI in SHIKAMA, 1977)

Natsume-imo (= Shōjō-natsume-imo)

- Type locality: none originally given; designated 'Island of Amboina, Indonesia' (COOMANS *et al.*, 1982 in 1979-86).
- Distribution: Hachijō island and southwards, P11, northern Ogasawara islands, Kii peninsula, P5, ECP4-ECP2, P2; Philippines, Mozambique to Marquesas, Hawaii.
- Habitat: intertidal to 240 m., muddy sand or coral rubble.

**G3978 *C. dusaveli* (H. ADAMS, 1872)**

(= *Textilia dusaveli benten* SHIKAMA & ŌISHI in SHIKAMA, 1977)

Benten-imo

- Type locality: Mauritius, in fish stomach.
- Distribution: Izu islands (Miyake island, 100-122 m. TSUCHIDA & KUROZUMI, 1994) and southwards, off southern Kii peninsula (dredged fragments), ECP3-ECP2, Okinawa, East China Sea, P2; western Pacific to New Caledonia.
- Habitat: 50-300 m., sand.
- Original genus: *Leptoconus* (*Phasmoconus*).

G3979 *C. timorensis* **HWASS in BRUGUIÈRE, 1792 in 1789-1816**

(= *C. vespertinus* SOWERBY I, 1825; *C. gracilis* WOOD, 1828 in 1818-28 non SOWERBY I, 1823; *C. euschemon* TOMLIN, 1937a)

Chimoru-imo

- Type locality: 'Mers des grandes Indes'.
- Distribution: Okinawa (in Teramachi collection, KURODA, 1960); Mauritius to Papua New Guinea.

G3980 *C. spectrum* **LINNAEUS, 1758**

(= *Cucullus carota* RÖDING, 1798; *Conus lacteus* LAMARCK, 1810; *C. conspersus* REEVE, 1843 in 1843-65; *C. broderipii* REEVE, 1843 in 1843-65; *C. verrauxi* KIENER, 1845; *C. pica* ADAMS & REEVE, 1848 in 1848-50; *C. stillatus* REEVE, 1849; *C. filamentosus* REEVE, 1849; *C. daphne* BOIVIN, 1864; *C. dolium* BOIVIN, 1864)

Hiro-kuchi-imo (= Chōchin-hiro-kuchi-imo; Goshu-hiro-kuchi-imo; Koburi-hiro-kuchi-imo; Hime-hiro-kuchi-imo)

- Type locality: 'in Asia'.
- Distribution: Hachijō island and southwards, P11, northern Ogasawara islands, Okinawa islands, ECP2, P2; Philippines, Indonesia to Papua New Guinea, Australia.
- Habitat: intertidal to 50 m., sand.

G3981 *C. nussatella* **LINNAEUS, 1758**

(= *C. nussatella* var. *tenuis* SOWERBY I, 1834 non SOWERBY I, 1833; *Hermes kawanishii* SHIKAMA, 1970) Shiro-madara-imo (= Samehada-imo)

- Type locality: 'ad Nussatello insulam Asiae' (Nussatella island; probably Indonesia).
- Distribution: Hachijō island and southwards, P11, northern Ogasawara islands, Kii peninsula, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to 25 m., sand among living coral.

G3982 *C. terebra* **BORN, 1778**

(= *C. terebellum* GMELIN, 1791; *C. fusus* GMELIN, 1791; *Cucullus albeolus* RÖDING, 1798; *Conus coelebs* HINDS, 1843; *C. thomasi* SOWERBY III, 1881)

Itomaki-imo

- Type locality: none originally given; designated 'Fiji islands' (CERNOHORSKY, 1964).
- Distribution: Hachijō island and southwards, P11, northern Ogasawara islands, Kii peninsula P5, southern Kyūshū, ECP4-ECP2, P2; Philippines, Red Sea to Australia.
- Habitat: intertidal to 20 m. on coral reefs; in fine sand or coral rubble.

G3983 *C. coffeae* **GMELIN, 1791**

(= *Cucullus caffer* RÖDING, 1798; *Conus scabriusculus* DILLWYN, 1817; *C. fabula* SOWERBY I, 1833; *C.*

*scabriusculus sensu* KURODA, 1941; KURODA & HABE, 1952-a; ABBOTT & DANCE, 1982; HABE & OKUTANI, 1985; RÖCKEL *et al.*, 1995)

Suso-murasaki-imo

- Type locality: none designated.
- Distribution: Kii peninsula (Kushimoto SHIKAMA & CHINŌ, 1970) and southwards, P5, ECP4-ECP2, P2; Philippines, Thailand to Hawaii, Marquesas.
- Habitat: 2-30 m., coral and sand.

G3984 *C. luteus* **SOWERBY I, 1833**

(= *C. inaequalis* REEVE, 1849; *C. luteus richardsae* KORN & RÖCKEL, 1992)

Sonare-imo

- Type locality: 'Annaa' (Anaa island, Tuamotu Archipelago).
- Distribution: Kii peninsula (Cape Shio SHIKAMA & CHINŌ, 1970), Amami islands and southwards, ECP3-ECP2, P2; Philippines to French Polynesia.
- Habitat: 10-40 m., in caverns; in coral rubble.

G3985 *C. coccineus* **GMELIN, 1791**

(= *C. ammiralis anglicus* GMELIN, 1791; *C. solandri* BRODERIP & SOWERBY, 1830)

Enji-imo

- Type locality: none originally given; designated 'Samar island, Philippines' (COOMANS *et al.*, 1985 in 1979-86).
- Distribution: Kii peninsula and southwards, P5, western Kyūshū, ECP4-ECP2, P2; Philippines, Australia to Vanuatu.
- Habitat: intertidal to 20 m. on coral reefs, in coral rubble.

G3986 *C. nucleus* **REEVE, 1848 in 1843-65**

Kashi-no-mi-imo

- Type locality: 'Matnog, Island of Luzon, Philippines (found on the reefs)'.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, Australia, Indo-Pacific to Marshall islands.
- Habitat: 10-30 m., sand.

G3987 *C. granum* **RÖCKEL & FISCHÖDER, 1985**

Ko-donguri-imo

- Type locality: 'Manobol, Sulu Archipel, Philippinen'.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, Mauritius to Thailand, Papua New Guinea to New Caledonia.
- Habitat: 25-240 m., sand and coral rubble.

G3988 *C. artoptus* **SOWERBY I, 1833**

(= *Hermes spectabilis* A. ADAMS, 1854 in H. & A. ADAMS, 1853-58)

Minami-itomaki-imo

- Type locality: none originally given; designated 'Biak, Papua New Guinea' (COOMANS *et al.*, 1981 in 1979-86).
- Distribution: Yaeyama islands and southwards, P2;

Philippines, Sulu Sea to Australia, Vanuatu.

- Habitat: 10-50 m., sand and rubble.

**G3989 *C. viola* CERNOHORSKY, 1977**

(= *C. violaceus* REEVE, 1843 in 1843-65 non GMELIN, 1791; *C. (Leporiconus) blatteus* SHIKAMA, 1979)

Suiren-imo (= Aya-murasaki-imo)

- Type locality: Matnog, Luzon, Philippines.
- Distribution: P2; Taiwan and southwards, Philippines to Melanesia.
- Habitat: 20-240 m., coral and coral rubble.

**G3990 *C. tenuistriatus* SOWERBY II, 1858**

(= *C. tendineus* var. *granulosa* SOWERBY I, 1834 non RÖDING, 1798; *C. glans* var. *tenuigranulata* DAUTZENBERG, 1937)

Chikage-imo

- Type locality: 'Philippines'.
- Distribution: Kii peninsula (Cape Shio SHIKAMA & CHINŌ, 1970) and southwards, P5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Marshall islands to French Polynesia.
- Habitat: subtidal to 25 m. on coral reefs and rocks.

**G3991 *C. glans* HWASS in BRUGUIÈRE, 1792 in 1789-1816**

(= *C. fusiformis* FISCHER, 1807 non LAMARCK, 1810; *C. violaceus* LINK, 1807 non GMELIN, 1791)

Donguri-imo

- Type locality: 'Les Mers d'Afrique' (African seas).
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Australia to Tuamotu Archipelago.
- Habitat: subtidal to 30 m., coral reefs.

**G3992 *C. cylindraceus* BRODERIP & SOWERBY, 1830**

Tombo-imo

- Type locality: none originally given; designated 'New Caledonia' (COOMANS *et al.*, 1985 in 1979-86)
- Distribution: Kii peninsula (Cape Shio SHIKAMA & CHINŌ, 1970) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Hawaii to French Polynesia.
- Habitat: subtidal to 25 m., sand; coral rubble, under coral.

**G3993 *C. mitratus* HWASS in BRUGUIÈRE, 1792 in 1789-1816**

(= *C. mitraeformis* var. *pupaeformis* SOWERBY III, 1870)

Fude-imo

- Type locality: 'l'Océan Indien' (Indian Ocean).
- Distribution: Kii peninsula (Cape Shio KOYAMA, 1992), Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: subtidal to 25 m., sand among coral and seaweed.

**G3994 *C. sulcatus* HWASS in BRUGUIÈRE, 1792 in 1789-1816**

(= *C. costatus* HOLTEN, 1802; *C. asper* LAMARCK, 1810; *C. undulatus* SOWERBY II, 1858 non LIGHTFOOT, 1786; *C. bocki* SOWERBY III, 1881; *C. bretteinghami* COOMANS, MOOLENBEEK & WILS, 1982; *C. samiae* DaMOTTA, 1982)

Kijibiki-imo (= Nunome-imo; Kinano-imo)

- Type locality: 'Mers des Indes orientales'.
- Distribution: Kii peninsula (KOYAMA, 1994-a), Amami islands (off Yamato village), P2; Taiwan and southwards, Philippines, Indo-Pacific, India to Melanesia, Fiji.
- Habitat: 20-240 m., sandy mud.

**G3995 *C. grangeri* (SOWERBY III, 1900)**

(= *C. planiliratus* var. *batheon* STURANY, 1904)

Yoroi-imo

- Type locality: none designated.
- Distribution: off Amami islands, P2; South China Sea, Taiwan and southwards, Philippines, Red Sea, Indian Ocean.
- Habitat: (Taiwan: 20-100 m. Red Sea: 210-800 m.), sand.
- Original genus: *Asprella*.

**G3996 *C. asiaticus* DaMOTTA, 1985**

(= *C. lovellreevei* RAYBAUDI, 1993)

Juzukake-kijibiki-imo

- Type locality: off Tai-chung, strait of Taiwan, East China Sea.
- Distribution: P2; southern East China Sea, South China Sea, Philippines.
- Habitat: 25-100 m., sandy mud.

**G3997 *C. australis* HOLTEN, 1802**

(= *C. gracilis* SOWERBY I, 1823; *C. duplicatus* SOWERBY I, 1823; *C. alabasteroides* SHIKAMA, 1963-a; *C. cebuganus* DaMOTTA & MARTIN, 1982; *C. gabryae* KORN & RÖCKEL, 1992)

Naga-imo-gai (= Togari-imo)

- Type locality: none originally given; designated 'Taiwan' (COOMANS *et al.*, 1981 in 1979-86).
- Distribution: Mie prefecture (off Cape Miki MATSUMOTO, 1979) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, East China Sea, Vietnam to Fiji.
- Habitat: 35-240 m., sandy mud.

**G3998 *C. kuroharai* (HABE, 1965-a)**

(= *C. duplicatus sensu* ABBOTT & DANCE, 1982; HABE & OKUTANI, 1985)

Kusazuri-imo

- Type locality: off Okinoshima, southwestern Shikoku.
- Distribution: Izu islands and southwards, P1 I, Ogasawara islands, P6-P5, EC5, ECP4-ECP2, East China Sea; South China Sea to New Caledonia.
- Habitat: 50-400 m., sand.
- Original genus: *Asprella*.

G3999 *C. armadillo* SHIKAMA, 1971-b

Arumajiro-imo

- Type locality: 'Taiwan'.
- Distribution: P11, Ogasawara islands (Chichijima FUKUDA, 1995), Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Loyalty islands to Australia (Queensland).
- Habitat: 50-400 m., sand.

G4000 *C. oishii* (SHIKAMA, 1977)

Ōshi-imo

- Type locality: 'East China Sea'.
- Distribution: P2; East China Sea, South China Sea, Taiwan and southwards, Philippines, Indonesia.
- Habitat: subtidal, muddy sand.
- Original genus: *Asprella*.

G4001 *C. orbignyi* AUDOIN, 1831

(= *C. planicostatus* SOWERBY I, 1833; *C. orbignyi aratus* KILBURN, 1973; *C. orbignyi elokismenos* KILBURN, 1975; *C. orbignyi coriolisi* MOOLENBEEK & RICHARD, 1995)

Orubini-imo (= Hō-ō-imo)

- Type locality: 'Chine'.
- Distribution: Bōsō peninsula and southwards, Ogasawara islands (Otōtojima FUKUDA, 1995), P7-P5, Japan Sea (off Yamagata prefecture, J3-J1), EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Madagascar to New Caledonia.
- Habitat: 50-400 m., sand and mud.

G4002 *C. insculptus* KIENER, 1845 in 1834-80

Hime-hō-ō-imo

- Type locality: 'La Mer de Chine' (China Sea).
- Distribution: P2; South China Sea, Taiwan and southwards, Philippines, western Thailand to Australia, Fiji.
- Habitat: 35-150 m., on black sand.

G4003 *C. comatosa* PILSBRY, 1904-c

(= *C. dormitor* PILSBRY, 1904 non SOLANDER in BRANDER, 1766)

Yume-imo

- Type locality: Kikai island, Amami islands (fossil).
- Distribution: Ogasawara islands (Chichijima FUKUDA, 1995); Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Vietnam to Australia, New Caledonia.
- Habitat: 50-400 m., sand and coral rubble.

G4004 *C. aculeiformis* REEVE, 1844 in 1843-65

(= *C. delicatus* SCHEPMAN, 1913 in 1908-13)

Taiwan-hō-ō-imo

- Type locality: 'Cagayan, island of Mindanao, Philippines (dredged from sandy mud at the depth of from twenty-five to thirty fathoms)'.
- Distribution: P2; Taiwan and southwards, Philippines,

Red Sea to southern Indonesia.

- Habitat: 50-100 m., sandy mud.

G4005 *C. schepmani* FULTON, 1936-a

(= *C. elegans* SCHEPMAN, 1913 non SOWERBY III, 1895)

Masayume-imo

- Type locality: 'Siboga' sta. 153: 0° 3.8' N., 130° 24.3' E., 'Bougainville-strait. 141 m. Fine and coarse sand with dead shells.' (Between Waigeo and Kawe islands, off northwestern Irian Jaya, New Guinea).
- Distribution: Kii peninsula (off Cape Kirime), Okinawa (Cape Zanpa), P2; Taiwan and southwards, South China Sea, Philippines, Australia, New Caledonia, Vietnam.
- Habitat: 80-400 m., sand, fine sand and coral rubble.

G4006 *C. longurionis* KIENER, 1845 in 1834-80

(= *C. katanganus* DaMOTTA, 1982)

Naga-hō-ō-imo

- Type locality: none designated.
- Distribution: P2; Taiwan and southwards, Philippines, Mozambique to Thailand.
- Habitat: subtidal to 75 m., silty sand.

G4007 *C. saecularis* MELVILL, 1898

Maboroshi-imo

- Type locality: Malcolm inlet, Persian Gulf.
- Distribution: Ryūkyū islands (RÖCKEL *et al.*, 1995); Persian Gulf to Philippines, Papua New Guinea.
- Habitat: 100-400 m.

G4008 *C. pagodus* KIENER, 1845 in 1834-50

(= *C. cancellatus sensu* S. HIRASE, 1934; KURODA & HABE, 1952-a; KIRA, 1962; KURODA *et al.*, 1971; WALLS, 1979; YOSHIBA in SAKURAI, 1986 non HWASS in BRUGUIÈRE, 1792 in 1789-1816)

Hishi-imo-gai

- Type locality: 'les côtes de l'île de Taiti' (Tahiti).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, EC5, ECP4-ECP2, East China Sea, P2; Philippines, New Caledonia.
- Habitat: 50-240 m., sandy mud.

**Notes:** *C. cancellatus* HWASS in BRUGUIÈRE, 1792 in 1789-1816 is a western Atlantic species. See RÖCKEL *et al* (1995).

G4009 *C. acutangulus* LAMARCK, 1810

(= *C. turriculatus* SOWERBY II, 1866 non DESHAYES, 1865; *C. gemmulatus* SOWERBY III, 1870; *C. (Phasmoconus) parius sensu* HABE & OKUTANI, 1985)

Daiya-imo

- Type locality: 'Mer des grandes Indes'.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, East China Sea, P2; Philippines, Indo-Pacific.
- Habitat: 3-100 m., coral, coral rubble or sandy mud.



G4010 *C. gratacapii* PILSBRY, 1904-a

Tsumu-imo-gai

- Type locality: Kikai island, Amami islands (Pliocene fossil).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2.
- Habitat: 70-80 m., sand.

G4011 *C. sowerbii* REEVE, 1849

(= *C. sinensis* REEVE, 1843 in 1843-65 non GMELIN, 1781; *C. sowerbyi sensu* SOWERBY II, 1858; *C. sowerbii var. subaequalis* SOWERBY III, 1870; *C. acutangulus sensu* HABE & OKUTANI, 1985)

Taiwan-tsumu-imo (= Ibo-hishi-imo)

- Type locality: 'Feejee Islands (found on a reef)' (Fiji).
- Distribution: Kii peninsula (off Ipponmatsu; off Minabe); Taiwan to Fiji.
- Habitat: 120-150 m., sand.

G4012 *C. elegans* SOWERBY III, 1895

(= *C. aculeiformis forma torensis* STURANY, 1904; *C. elegans ramalhoi* COOMANS, 1986)

Suishi-imo

- Type locality: Persian Gulf.
- Distribution: Ogasawara islands (Otōtojima FUKUDA, 1995) and southwards, Bōsō peninsula (Tateyama bay FUJITA, 1929); Gulf of Suez to Pakistan, western Australia, Natal to Mozambique.
- Habitat: subtidal to 60 m., muddy sand.

G4013 *C. sieboldii* REEVE, 1848 in 1843-65

(= *sieboldi auct.*; *C. petricosus* AZUMA, 1961-b)

Akome-gai (= Akome-imo; Iwa-imo)

- Type locality: 'Japan'.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, East China Sea, P2; Philippines.
- Habitat: 50-200 m., sandy mud.

G4014 *C. ione* FULTON, 1938

Inazuma-akome

- Type locality: 'Kii, Japan' (Kii peninsula, central Honshū).
- Distribution: Izu islands (off Hachijō island OKUTANI, 1964-b), Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, East China Sea, P2; Philippines, Australia, Mozambique, Réunion.
- Habitat: 50-560 m., sandy mud.

G4015 *C. teramachii* (KURODA, 1956-a)

(= *C. torquatus* MARTENS, 1901 non RÖDING, 1798; *C. neotorquatus* DaMOTTA, 1985)

Teramachi-imo

- Type locality: Tosa bay, off Kōchi prefecture, southern Shikoku.
- Distribution: Mie prefecture (off Owase, 300 m. MATSUMOTO, 1979) and southwards, P5, EC5, ECP4-

ECP2, East China Sea, P2; Natal to Solomon islands, western Australia to New Zealand.

- Habitat: (Japan, 200-360m; elsewhere, 450-1134 m.), sandy mud.
- Original genus: '*Asprella* (*Endemnoconus?*)'.

G4016 *C. reclusianus* BERNARDI, 1853-a

(= *C. urashimanus* KURODA & ITŌ, 1961-a; *C.*

*gloriakiiensis* KURODA & ITŌ, 1961-a; *C. roseorapum* RAYBAUDI & DaMOTTA, 1990)

Chūka-imo

- Type locality: 'Les Mers du Chine' (China Seas).
- Distribution: Kii peninsula and southwards, P5, western Japan Sea (off Mishima CALLOMON, 1997), EC5, ECP4-ECP2, East China Sea, P2; Philippines, southeastern India to Singapore, Arafura Sea to New Caledonia.
- Habitat: 25-250 m., sand.

G4017 *C. voluminalis* REEVE, 1843 in 1843-65

(= *C. ammiralis filicinctus* SCHEPMAN, 1913 in 1908-13; *C. clandestinatus* SHIKAMA, 1979)

Mizuhiki-imo (= Ko-misuji-imo)

- Type locality: 'Straits of Malacca' (Indonesia).
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, Papua New Guinea, Maldives to western Australia.
- Habitat: intertidal to 100 m., sand.

G4018 *C. shikamai* COOMANS, MOOLENBEEK & WILS, 1985

(= *C. clandestinus purpuratus* SHIKAMA, 1979 non RÖDING, 1798)

Murasaki-kamisuji-imo

- Type locality: South China Sea off Taiwan.
- Distribution: P2; Taiwan and southwards, South China Sea, Philippines, Indonesia (Sulawesi).
- Habitat: 100-250 m., sand.

G4019 *C. macarae* BERNARDI, 1857-a

Tsuzure-imo

- Type locality: none designated.
- Distribution: P2; southern Taiwan and southwards, Philippines.
- Habitat: intertidal to 100 m., sand.

G4020 *C. bayani* JOUSSEAUME, 1872

Hōrai-imo

- Type locality: 'Bourbon' (Réunion island, Indian Ocean).
- Distribution: P2; Taiwan and southwards, South China Sea, Philippines, Red Sea, Sri Lanka, probably Madagascar, Bay of Bengal.
- Habitat: 20-100 m., sand.

G4021 *C. ichinoseana* (KURODA, 1956-a)

(= *Asprella ichinoseana prioris* KURODA, 1956-a)

Ryū-ō-imo (= Ō-oya-imo)

- Type locality: Tosa bay, southern Shikoku.
- Distribution: Bōsō peninsula and southwards, P7-P6, P5, ECP4-ECP2, P2; Philippines, northwestern Australia, Vietnam.
- Habitat: 70-575 m., fine sand.
- Original genus: '*Asprella* (*Conasprella*?)'.

G4022 *C. kimioi* (HABE, 1965-a)

Renga-maki-imo

- Type locality: off Okinoshima, southwestern Shikoku.
- Distribution: Izu islands and southwards, P6-P5, EC5, ECP4-ECP2, East China Sea, P2; Philippines, New Caledonia.
- Original genus: *Rhizoconus*.

G4023 *C. tribblei* WALLS, 1977

(= *C. suluensis* SHIKAMA, 1979; *C. queenslandis* DaMOTTA, 1984)

Itokake-minashi

- Type locality: China Sea, off Taiwan.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Australia to New Caledonia.
- Habitat: 100-300 m., sand.

G4024 *C. sugimotonis* KURODA, 1929 in 1929-31

(= *C. sugimotonis vicdani* LAN, 1978; *C. whiteheadae* DaMOTTA, 1985)

Sugimoto-imo (= Fuiiri-sugimoto-imo)

- Type locality: Tosa bay, southern Shikoku.
- Distribution: Mie prefecture (off Owase, 200 m. MATSUMOTO, 1979) and southwards, P5, EC5, ECP4-ECP2, East China Sea, P2; Philippines, Australia.
- Habitat: 50-400 m., sandy mud.

G4025 *C. hirasei* (KURODA, 1956-a)

Hirase-imo

- Type locality: Kashiwajima, Kōchi prefecture, southwestern Shikoku.
- Distribution: Izu islands and southwards, P6-P5, EC5, ECP4-ECP2, East China Sea, P2; Philippines.
- Habitat: 100-200 m., sand.
- Original genus: '*Rhizoconus*'.

G4026 *C. otohimeae* KURODA & ITŌ, 1961-a

(= *C. rogmartini* DaMOTTA, 1981)

Otohime-imo

- Type locality: Nada (fishing port), Gobō district, Kii peninsula, central Honshū.
- Distribution: Izu islands (dredged on Zenisu bank TSUCHIDA & IKEBE, 1991) and southwards, Ogasawara islands (Chichijima; Otōtojima FUKUDA, 1995), P11, P6-P5, EC5, ECP4-ECP2, P2; Philippines.
- Habitat: Japan, 50-150 m., sand; Philippines, 240-300 m.

G4027 *C. aphrodite* PETUCH, 1979

Osana-otohime-imo

- Type locality: off Panglao island, Bohol, Philippines.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, New Caledonia.
- Habitat: 120-380 m.

G4028 *C. memiae* (HABE & KOSUGE, 1970-b)

(= *C. (Asprella) adonis* SHIKAMA, 1971-b)

Meme-imo (= Hade-hishi-imo)

- Type locality: South China Sea.
- Distribution: Izu islands and southwards, P6-P5, ECP4-ECP2, P2; Philippines, Indonesia to Fiji.
- Habitat: 50-300 m., sand.
- Original genus: *Asprella*.

G4029 *C. wakayamaensis* (KURODA, 1956-a)

(= *C. nereis* PETUCH, 1979)

Wakayama-imo

- Type locality: off Kii peninsula (Wakayama prefecture, central Honshū).
- Distribution: Mie prefecture (off Owase MATSUMOTO, 1979) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Natal (South Africa).
- Habitat: 30-240 m., sand.
- Original genus: *Asprella* (*Conasprella*).

G4030 *C. eugrammatus* BARTSCH & REHDER, 1943

(= *C. lapulapui* DaMOTTA & MARTIN, 1982)

Nasu-imo (= Rapurapu-imo)

- Type locality: off north coast of Molokai island, near Mokapu islet, Hawaii.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Natal, Australia (Queensland), Madagascar, Hawaii.
- Habitat: 35-500 m., sand.

G4031 *C. praezellens* (A. ADAMS, 1854 in H. & A. ADAMS, 1853-58)

(= *C. bicolor* SOWERBY I, 1841 *non* SOWERBY I, 1833)

Kishu-imo

- Type locality: 'China Seas'.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Australia.
- Habitat: 10-400 m., sandy mud.
- Original genus: *Leptoconus*.

G4032 *C. articulatus* SOWERBY III, 1873

(= *C. lombei* SOWERBY III, 1881; *Endemnoconus nadaensis* AZUMA & TOKI, 1970; *C. tosaensis* SHIKAMA, 1970)

Asanagi-minashi (= Tosa-imo)

- Type locality: Mauritius.
- Distribution: Izu islands and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Australia.
- Habitat: 35-240 m., coral sand.

**Notes:** occasional bright yellow specimens occur.

**G4033 *C. floridulus* ADAMS & REEVE, 1848 in 1848-50**

(= *C. tenuis* SOWERBY II, 1857)

Usu-murasaki-imo

- Type locality: none designated.
- Distribution: Ogasawara islands (Otōtojima FUKUDA, 1995), Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Indo-Pacific, New Caledonia to Fiji.
- Habitat: 10-80 m., muddy sand or coral rubble.

**G4034 *C. spirofilis* HABE & KOSUGE, 1970-d**

(= *C. nipponicus* DaMOTTA, 1985)

Itohiki-imo

- Type locality: South China Sea.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, South China Sea.
- Habitat: 100-200 m., sand.

**G4035 *C. profundorum* (KURODA, 1956-a)**

(= *Profundiconus soyomaru* OKUTANI, 1964)

Yomo-sugara-imo

- Type locality: southwestern Tosa bay, southern Shikoku.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, Izu islands (off Hachijō island OKUTANI, 1964-b), P11, northern Ogasawara islands, P7-P5, East China Sea, P2; New Caledonia, eastern Pacific (?).
- Habitat: 200-550 m., sandy mud.
- Original genus: '*Chelyconus* (?) (*Profundiconus*)'.

**G4036 *C. lani* CRANDALL, 1979**

(= *C. nigrostriatus* KOSUGE, 1979)

Ran-yomo-sugara-imo

- Type locality: near Uotsuri island, Diao-Yu-Tai (Senkaku) islands, off northeastern Taiwan.
- Distribution: P2; eastern East China Sea, Philippines, Solomon islands to New Caledonia.
- Habitat: 50-560 m., sandy mud.

**G4037 *C. ikedai* NINOMIYA, 1987-a**

Sagami-imo

- Type locality: southwest off Jōgashima islet, Miura peninsula (Sagami bay, central Honshū).
- Distribution: Sagami bay (south off Jōgashima, 250 m.; off Hayama and Amadaiba, 300 m.)

**G4038 *C. scopulicola* (OKUTANI, 1972)**

Hina-imo-gai

- Type locality: Hyōtan-se bank, Izu islands: 34° 21.5' N., 139° 04.5' E., 200 m.
- Distribution: Izu islands (dredged on Zenisu bank TSUCHIDA & IKEBE, 1991).
- Habitat: 150-300 m., sandy mud.
- Original genus: *Profundiconus*.

**G4039 *C. excelsus* (SOWERBY III, 1908-b)**

(= *C. pulcherrimus* BRAZIER, 1894 non HEILPRIN, 1879; *Asprella tannaensis* COTTON, 1945; *Turriconus nakayasui* SHIKAMA & HABE, 1968)

Nakayasu-imo (= Adeyaka-imo)

- Type locality: 'Tanna, New Hebrides' (*pulcherrimus*); 'New Caledonia(?)' (*excelsus*).
- Distribution: Kii peninsula (Minabe) and southwards, Tosa bay; off Taiwan, Philippines, Solomon to Loyalty islands, Australia (Queensland), Andaman Sea off Burma.
- Habitat: 100-400 m., sand.

**G4040 *C. kawamura* (HABE, 1961-a)**

Kawamura-hade-minashi

- Type locality: Amami and Ryūkyū islands.
- Distribution: Amami islands (Sumiyo, off Naze, off Ukejima) and southwards, ECP3-ECP2, P2.
- Habitat: 30-50 m., black sand.
- Original genus: *Leptoconus*.

**Notes:** this species has been taken live only in Amami-Ōshima (YOSHIBA & NOBUHARA, 1997); dead specimens are known from dredged sand over the whole range.

**G4041 *C. pergrandis* (IREDALE, 1937-b)**

(= *C. fletcheri* PETUCH & MENDENHALL, 1972; *C. (E.) potusmarumai* KOSUGE, 1980)

Enma-imo (= Enma-no-imo; Daiō-imo)

- Type locality: Thali bay, New Britain.
- Distribution: P2; Taiwan and southwards, South China Sea, Philippines, Papua New Guinea, New Caledonia, Australia (Queensland).
- Habitat: 50-350 m., sandy mud.
- Original genus: *Embrikena*.

**G4042 *C. stupa* (KURODA, 1956-a)**

Buttō-imo

- Type locality: Tosa bay, southern Shikoku.
- Distribution: Tosa bay and southwards, P5; Philippines, Solomon islands, Loyalty islands.
- Habitat: 150-430 m., sandy mud.
- Original genus: *Embrikena*.

**G4043 *C. stupella* (KURODA, 1956-a)**

Ko-buttō-imo

- Type locality: Tosa bay, southern Shikoku.
- Distribution: Tosa bay and southwards, P5, East China Sea, ECP3-ECP2, P2; Philippines.
- Habitat: 100-300 m., sandy mud.
- Original genus: *Embrikena*.

**G4044 *C. chiangi* AZUMA, 1972-b**

(= *Cornutoconus lamellatus* SUZUKI, 1972-a)

Maihime-imogai (= Kasen-minashi)

- Type locality: South China Sea; 200 fms., coral reefs.

- Distribution: Izu islands (Smith Rock), 'Japan to Philippines' (RÖCKEL *et al.*, 1995).
- Habitat: 150 to 300 m., coral reefs.
- Original genus: *Taranteoconus*.

Family **TEREBRIDAE MÖRCH, 1852**

(= ACUSIDAE GRAY, 1853; TEREBRINAE H. & A. ADAMS, 1853 in 1853-58; PERVICACIIDAE RUDMAN, 1969)

(Refs.: Ōyama, 1961-a; Bratcher & Cernohorsky, 1987)

□ Genus ***Terebra* BRUGUIÈRE, 1792 in 1789-1816**

Type species: *Buccinum subulatum* LINNAEUS, 1758 (= *Terebrum* MONTFORT, 1810; *Myurella* HINDS, 1844-b; *Abretia* H. & A. ADAMS, 1853 in 1853-58 non RAFINESQUE, 1814; *Strioterebrum* SACCO, 1891; *Oxymeris* DALL, 1903; *Triplostephanus* DALL, 1908; *Subula* SCHUMACHER, 1917; *Brevimyurella* BARTSCH, 1923-b; *Punctoterebra* BARTSCH, 1923-b; *Terebrina* BARTSCH, 1923-b non RAFINESQUE, 1815; *Myurellina* BARTSCH, 1923-b; *Abretiella* DALL in BARTSCH, 1923-b; *Dimidacus* IREDALE, 1929; *Microtrypetes* PILSBRY & LOWE, 1932; *Brevimyurella* ŌYAMA, 1961-a; *Cinguloterebra*, *Clathroterebra*, *Decorihastula*, *Granuliterebra*, *Hastulopsis*, *Laeviacus*, *Pristiterebra* all ŌYAMA, 1961-a)

G4045 ***T. subulata* (LINNAEUS, 1767)**

(= *T. tigream* MONTFORT, 1810; *T. fusca* PERRY, 1811; *T. (Subula) tigrina* GMELIN *sensu* CHENU, 1859; *T. subulaia (sic) sensu* HABE & KOSUGE, 1983)

Takenoko-gai

- Type locality: 'in India'.
- Distribution: Kii peninsula (Cape Shio) and southwards, P5, ECP4-ECP2, P2; tropical Indo-Pacific to Australia.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Buccinum*.

G4046 ***T. guttata* (RÖDING, 1798)**

(= *Buccinum candidum* BORN, 1778 *nomen oblitum*; *B. oculatum* DILLWYN, 1817; *T. laevis* GRAY, 1834; *T. nebulosa* LOROIS, 1858 non SOWERBY, 1825 nec KIENER, 1839; *T. laroisi* DESHAYES, 1859; *T. sculptilis* PEASE, 1869)

Shirofu-take

- Type locality: none originally given; designated 'East Indies' after Gmelin (BRATCHER & CERNOHORSKY, 1987).
- Distribution: Amami Ōshima and southwards, ECP3-ECP2, P2; tropical Indo-Pacific to Australia.
- Habitat: intertidal to 116 m., sand.
- Original genus: *Epitonium*.

G4047 ***T. dimidiata* (LINNAEUS, 1758)**

(= *T. carnea* PERRY, 1811; *T. splendens* DESHAYES,

1857; *T. (Subula) dimidiata var. pallida* DAUTZENBERG, 1935; *T. (S.) dimidiata var. circumvoluta* 'CHEMNITZ' *sensu* DAUTZENBERG, 1935)

Beni-take

- Type locality: 'in *O. Africano*' (African seas); restricted to 'Dar-es-Salaam, Tanzania' (BRATCHER & CERNOHORSKY, 1987).
- Distribution: Kii peninsula and southwards, P5, Ogasawara islands, ECP4-ECP2, P2; Indo-Pacific, Red Sea to Polynesia, Hawaii.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Buccinum*.

G4048 ***T. areolata* (LINK, 1807 in 1806-08)**

(= *T. subulata* LAMARCK, 1816 non LINNAEUS, 1758; *T. muscaria* LAMARCK, 1822 in 1815-22)

Ushi-no-tsuno-gai (= Ushino-tsuno-take)

- Type locality: none originally given; designated 'The island of Ticao, Philippines' (BRATCHER & CERNOHORSKY, 1987).
- Distribution: Kii peninsula (Cape Shio) and southwards, P5, ECP4-ECP2, P2; Indo-Pacific, Red Sea to Polynesia, Hawaii.
- Habitat: 3-50 m., sand.
- Original genus: *Vertagus*.

G4049 ***T. argus* HINDS, 1844-b**

(= *T. nebulosa* KIENER, 1839 non SOWERBY, 1825; *T. argus brachygyra* PILSBRY, 1921)

Oborofu-take

- Type locality: 'Tahiti, Society Islands and Nukuhiva, Marquesas islands'.
- Distribution: Kii peninsula and southwards, P6-P5, Hachijō island (Izu islands), P11, ECP4-ECP2; tropical Indo-Pacific, Red Sea to French Polynesia, Hawaii.
- Habitat: 3-116 m., sand.

G4050 ***T. maculata* (LINNAEUS, 1758)**

(= *T. maculosa* PFEIFFER, 1840; *T. maculata confluens* DAUTZENBERG, 1935; *T. roosevelti* BARTSCH & REHDER, 1939)

Ryūkyū-take

- Type locality: 'in *O. Africae, Asiae*' (African and Asian seas).
- Distribution: Kii peninsula and southwards, P5, Ogasawara islands, EC5, ECP4-ECP2, P2; tropical Indo-Pacific, Red Sea to eastern Pacific.
- Habitat: subtidal to 210 m., sandy mud.
- Original genus: *Buccinum*.

G4051 ***T. chlorata* LAMARCK, 1822 in 1815-22**

(= *T. knorri* GRAY, 1834)

Kaen-take

- Type locality: none originally given; designated

'Laminusa, Siasi, Sulu, Philippines' (BRATCHER & CERNOHORSKY, 1987).

- Distribution: Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; eastern Africa to Pitcairn island, Hawaii, Australia.
- Habitat: intertidal to 20 m., sand.

G4052 *T. felina* (DILLWYN, 1817)

(= *Buccinum tigrinum* GMELIN, 1791 non *Cominella tigrinum* GMELIN, 1791; *T. suffusa* PEASE, 1869)

Zooge-take

- Type locality: none originally given; designated 'Piti, Guam islands' (BRATCHER & CERNOHORSKY, 1987).
- Distribution: Shikoku (western Kōchi prefecture) and southwards, P6-P5, Hachijō & Miyake islands (Izu islands), P11, Ogasawara islands, ECP4-ECP2, P2; tropical Indo-Pacific, eastern Africa to Australia.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Buccinum*.

G4053 *T. crenulata* (LINNAEUS, 1758)

(= *Buccinum varicosum* GMELIN, 1791 nomen nudum; *T. maculata* PERRY, 1811 non LINNAEUS, 1758; *Buccinum luteolum* MARTYN sensu CHENU, 1845; *T. fimbriata* DESHAYES, 1857; *T. interlineata* DESHAYES, 1859; *T. crenulata* var. *booleyi* MELVILL & SYKES, 1898)

Kiba-take

- Type locality: 'in *O. Africano*' (African seas).
- Distribution: Hachijō island (Izu islands), P11, Ogasawara islands, Kii peninsula and southwards, P5, ECP4-ECP2, P2; tropical Indo-Pacific, Red Sea to Mexico.
- Habitat: intertidal to 73 m., sand.
- Original genus: *Buccinum*.

**Notes:** LINNAEUS (1758: 741) clearly gives the locality for this species; BRATCHER & CERNOHORSKY (1987: 41) state none was given, and their designation ('Moluccas Islands, Indonesia') is unnecessary.

G4054 *T. succinea* HINDS, 1844-b

Kohaku-take

- Type locality: none originally given; designated 'Nagada, Papua New Guinea' (BRATCHER & CERNOHORSKY, 1987).
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; tropical Indo-Pacific, to Papua New Guinea, Fiji.
- Habitat: intertidal to 41 m., sand.

G4055 *T. cerithina* LAMARCK, 1822 in 1815-22

(= *T. pulchra* HINDS, 1844; *T. cerithium* sensu IWAKAWA, 1900; Y. HIRASE, 1917; KURODA, 1928; *T. spaldingi* PILSBRY, 1921)

Kanimori-take

- Type locality: 'les mers de Timor' (Timor sea, Indonesia).

- Distribution: Shikoku (southwestern Kōchi prefecture) and southwards, P5, ECP4-ECP2, P2; tropical Indo-Pacific, Red Sea to Hawaii and Marquesas.

- Habitat: intertidal to 115 m., sand.

- Original genus: *Terebra*.

G4056 *T. cingulifera* LAMARCK, 1822 in 1815-22

(= *T. punctulata* SOWERBY, 1825; *T. columnaris* DESHAYES, 1859; *T. obsoleta* DESHAYES, 1859; *T. melamans* IREDALE, 1929)

Niku-take

- Type locality: none originally given; designated 'Burias island, Philippines' (BRATCHER & CERNOHORSKY, 1987).
- Distribution: Kii peninsula (Cape Shio) and southwards, P6-P5, Japan Sea (Fukui prefecture and southwards, J2-J1), EC5, ECP4-ECP2, P2; Mauritius to Tuamotu Archipelago.
- Habitat: intertidal to 20 m., sand.

G4057 *T. laevigata* GRAY, 1834-a

(= *T. stylus* DALL, 1908)

Hoso-niku-take

- Type locality: none originally given; designated 'Madang, Papua New Guinea' (BRATCHER & CERNOHORSKY, 1987).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Indo-Pacific, Mauritius, French Polynesia, Hawaii.
- Habitat: intertidal to 20 m., sand.

G4058 *T. punctatostrata* GRAY, 1834-a

(= *T. pallida* DESHAYES, 1857; *T. cingulifera* LAMARCK (*pars*) sensu REEVE, 1860; *Perirhoe exulta* IREDALE, 1931; *D. cinguliferus* sensu HABE & KOSUGE, 1966 non LAMARCK, 1822 in 1815-22)

Shiri-boso-niku-take

- Type locality: none originally given; designated 'Laing island, Papua New Guinea' (BRATCHER & CERNOHORSKY, 1987).
- Distribution: Amami Ōshima and southwards, ECP3-ECP2, P2; tropical western Pacific.
- Habitat: intertidal to 34 m., sand.

G4059 *T. funiculata* HINDS, 1844-b

(= *T. archimedis* DESHAYES, 1859; *T. langfordi* PILSBRY, 1921; *T. langfordi angustior* PILSBRY, 1921)

Itomaki-niku-take

- Type locality: none originally given; designated 'Honolulu, Hawaii' (BRATCHER & CERNOHORSKY, 1987).
- Distribution: Amami Ōshima and southwards, ECP3-ECP2, P2; Indo-Pacific, Mauritius to Hawaii, French Polynesia, Australia.
- Habitat: intertidal to 20 m., sand.

G4060 *T. quoygaimardi* CERNOHORSKY & BRATCHER, 1976

(= *T. monile* QUOY & GAIMARD, 1833 non *Buccinum monile* LINNAEUS, 1771; *T. monilis sensu* QUOY & GAIMARD, 1844; KURODA, 1960; SHIKAMA, 1964; HABE & KOSUGE, 1966; HABE & KOSUGE, 1967)

Shiro-ibo-niku-take (= Shiro-fushi-take)

- Type locality: 'Iles Sandwich' (Hawaii; probably erroneous).
- Distribution: Nagashima (Mie prefecture) and southwards, P6-P5, EC5, ECP4-ECP2, P2; Andaman islands to northern Australia, Micronesia.
- Habitat: intertidal to 30 m., sand.

G4061 *T. tricolor* SOWERBY I, 1825

(= *T. taeniolata* QUOY & GAIMARD, 1833)

Kisuji-niku-take (= Sanshiki-takenoko)

- Type locality: 'St. Thomas' (probably erroneous); redesignated 'Limu Is., Tonga Is.' (BRATCHER & CERNOHORSKY, 1987).
- Distribution: Kii peninsula and southwards, P5, southern Kyūshū, ECP4-ECP2; Indonesia to Tonga, Red sea to South Africa, Solomon islands.
- Habitat: intertidal to 20 m., sand.

G4062 *T. babylonia* LAMARCK, 1822 in 1815-22

(= *T. striata* GRAY, 1834-a)

Makizasa

- Type locality: none originally given; designated 'Samar, Philippines' (BRATCHER & CERNOHORSKY, 1987).
- Distribution: Suruga bay and southwards, P6-P5, Japan sea (Wakasa bay and southwards, J2-J1), EC5, ECP4-ECP2, P2; Indo-Pacific, Red Sea to Hawaii, French Polynesia, Australia.
- Habitat: intertidal to 200 m., sand.

G4063 *T. amanda* HINDS, 1844-b

(= *T. albomarginata* DESHAYES, 1859; *T. unicolor* PRESTON, 1908; *T. straminea* GRAY *sensu* Y. HIRASE, 1917; S. HIRASE, 1934; KURODA & HABE, 1952-a; WEAVER, 1960; *D. stramineus (sic) sensu* HABE, 1961; *D. straminea sensu* ŌYAMA, 1961-a; *D. stamineus (sic) GRAY sensu* HABE & KOSUGE, 1967)

Ko-niku-take (= Heritori-niku-take)

- Type locality: 'Straits of Macassar' (Indonesia); 11 fms.
- Distribution: Sagami bay and southwards, P6-P5, Ogasawara islands, Japan Sea (Wakasa bay and southwards, J2-J1), EC5, ECP4-ECP2, P2; Red Sea to tropical Indo-Pacific.
- Habitat: subtidal to 30 m., sand.

G4064 *T. mariesi* E. A. SMITH, 1880

(= *Cinguloterebra jefreysii (sic)* SMITH *sensu* ŌYAMA & TAKEMURA, 1961)

Ko-beni-take

- Type locality: Japan.
- Distribution: Sagami bay and southwards, P5, western Kyushu, EC5, ECP4-ECP2, P2; Australia.
- Habitat: 10-50 m., sand or muddy sand.

G4065 *T. adamsii* E. A. SMITH, 1873

(= *T. jeffreysii* E. A. SMITH, 1879-b; *T. hedleyi* PILSBRY, 1904; *T. hedleyana* PILSBRY, 1905; *T. hedeana (sic) sensu* IWAKAWA, 1909; *T. quadriradiata* YOKOYAMA, 1922)

Shiro-koniku-take (= Tsukushi-take; Azarashi-take)

- Type locality: 'Japan'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula and southwards, J3-J1), EC5, ECP4-ECP2, P2; Philippines.
- Habitat: 5-100 m., sand.

G4066 *T. anilis* (RÖDING, 1798)

(= *Epitonium cancellatum* RÖDING, 1798; *T. circinata* DESHAYES, 1857; *T. acuta* DESHAYES, 1857; *T. rubrobrunnea* PRESTON, 1908)

Ōna-take (= Hime-kiri-gai)

- Type locality: none originally given; designated 'Bileau island, Madang harbour, Papua New Guinea' (BRATCHER & CERNOHORSKY, 1987).
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Borneo to Samoa.
- Habitat: 20-100 m., sand.
- Original genus: *Epitonium*.

G4067 *T. fenestrata* HINDS, 1844-b

(= *T. caelata* ADAMS & REEVE, 1850 in 1848-50; *T. torquata* ADAMS & REEVE, 1850 in 1848-50; *Myurella pretiosa sensu* OKUTANI, 1975; SAKURAI, 1986 non REEVE, 1842).

Yasuri-giri

- Type locality: San Nicolas, Cebu, Philippines.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Wakasa bay and southwards, J2-J1), ECP4-ECP2, P2; Philippines, Fiji.
- Habitat: subtidal to 70 m., sand.

G4068 *T. waikikiensis* PILSBRY, 1921-a

Waikiki-take

- Type locality: off Waikiki, Oahu, Hawaii.
- Distribution: Kii peninsula (KOYAMA, 1994-b), Ogasawara islands (TSUCHIDA & TANGE, 1998); Philippines to Hawaii.
- Habitat: 112-140 m., sand.

G4069 *T. stearnsii* PILSBRY, 1891-d

(= *T. stearsii* PILSBRY *sensu* HIRASE, 1936)

Ō-giri

- Type locality: Japan.

- Distribution: Kii peninsula and southwards, western Shikoku (Bungo strait), P5, EC5, ECP4, East China Sea.
- Habitat: 100-200 m., sand.

G4070 *T. commaculata* (GMELIN, 1791)

(= *Epitonium acutissimum* var. RÖDING, 1798; *T. myuros* LAMARCK, 1822 in 1815-22)

Adeyaka-giri (= Kasuri-giri)

- Type locality: none originally given; designated 'Moluccas, Indonesia' (BRATCHER & CERNOHORSKY, 1987).
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; tropical Indo-Pacific, Zanzibar and Natal to Solomon islands.
- Habitat: 30-100 m., sand.
- Original genus: *Buccinum*.

G4071 *T. pretiosa* REEVE, 1842 in 1841-42

(= *T. fujitai* KURODA & HABE, 1952-a, *nom. nud.*; *T. fujitai* BRATCHER, 1973; *T. stearnsi* PILSBRY *sensu* AUBRY, 1984)

Futo-giri (= Fujita-giri)

- Type locality: none designated.
  - Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, EC5, East China Sea, ECP4-ECP2, P2; China to Philippines.
  - Habitat: 100-200 m., sandy mud.
- Notes:** *Terebra fujitai* was proposed by KURODA & HABE (1952-a: 89) for *T. pretiosa* (*pars.*) REEVE, 1842. KURODA & HABE gave no description, and REEVE's description applies to all his figures, so this is a *nomen nudum* (PETIT, pers. comm.). *T. fujitai* was accidentally validated by BRATCHER (Hawaiian Shell News, vol. 21 (4): 1, 3); this is here considered a synonym of *T. pretiosa*.

G4072 *T. lima* DESHAYES, 1857

(= *T. loebbeckeana* DUNKER, 1877)

Hime-futo-giri (= Sabi-hime-futo-giri; Rebekku-take)

- Type locality: 'China Seas'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Wakasa bay and southwards, J2-J1), EC5, East China Sea, P2; Indian Ocean to Papua New Guinea.
- Habitat: 35-350 m., sand.

G4073 *T. cumingii* DESHAYES, 1857

Kamingu-giri

- Type locality: 'China Sea'.
- Distribution: Kii peninsula (KOYAMA, 1996); Papua New Guinea.

G4074 *T. triseriata* GRAY, 1834-a

(= *T. praelonga* DESHAYES, 1859)

Kiri-gai

- Type locality: none originally given; designated 'Ticao island, Philippines' (BRATCHER & CERNOHORSKY,

1987).

- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, EC5, ECP4-ECP2, P2; tropical Pacific to Australia.

- Habitat: subtidal to 150 m., sand.

G4075 *T. bathyraphe* E. A. SMITH, 1875-b

(= *T. persica* E. A. SMITH, 1877; *T. constricta* THIELE, 1925; *T. tricincta* SMITH *sensu* RAY, 1968)

Ibo-hime-tokusa

- Type locality: 'Gulf of Yedo, Japan' (Tōkyō bay), 6-25 fms.
- Distribution: Fukushima prefecture and southwards, P8-P5, Seto inland sea, Japan Sea (Oga peninsula and southwards, J3-J1), EC5; Persian Gulf to northern Australia.

- Habitat: 12-100 m., sand.

- Original genus: *Terebra* (*Myurella*).

G4076 *T. tricincta* E. A. SMITH, 1877-a

(= *T. tokunagai* YOKOYAMA, 1920)

Tokunaga-ibo-hime-tokusa

- Type locality: 'Persian Gulf'.
- Distribution: off Chōshi (Chiba prefecture, central Honshū); Persian Gulf to northern Australia.
- Habitat: subtidal.

G4077 *T. tsuboiana* YOKOYAMA, 1922

(= *T. smithi* YOKOYAMA, 1922; *T. smithi sensu* KURODA & HABE, 1952-a; *Myurella* (*Pristiterebra*) *bifrons sensu* TAKI & ŌYAMA, 1954 *non* HINDS, 1844) Kogecha-take

- Type locality: Kioroshi, Inzai district and Ōtake, Narita district, Chiba prefecture, central Honshū (fossil).
- Distribution: off Sendai (Miyagi prefecture, northeastern Honshū), Bōsō peninsula to Suruga bay, P8-P6.
- Habitat: subtidal to 20 m., sand.

G4078 *T. bifrons* HINDS, 1844-b

(= *T. bellanodosa* GRABAU & KING, 1928)

Ō-kogecha-take

- Type locality: 'Japan, sandy mud'.
- Distribution: Tateyama (Bōsō peninsula, central Honshū) and southwards, off Aichi prefecture, Tosa bay, southeastern Kyūshū (off Miyazaki prefecture).
- Habitat: 9-20 m., sandy mud.

G4079 *T. pustulosa* E. A. SMITH, 1879-b

(= *T. granulosa* E. A. SMITH, 1873 *non* LAMARCK, 1822 in 1815-22; *T. chibana* YOKOYAMA, 1922) Hosokogecha-take (= Hime-kogecha-take)

- Type locality: 'Japan'.
- Distribution: off Shiogama (Miyagi prefecture, northeastern Honshū), Bōsō peninsula to Kyūshū, P8-P5.
- Habitat: subtidal to 50 m., sand.

G4080 *T. affinis* GRAY, 1834

(= *T. striata* QUOY & GAIMARD, 1833 *non* BASTEROT, 1825; *T. flava* GRAY, 1834; *T. pertusa* SOWERBY (*pars*) *sensu* KIENER, 1839; *T. puncticulata* DESHAYES, 1859; *T. peasii* DESHAYES, 1859; *T. flavescens* DESHAYES, 1860; *T. affinis puncticulata* SALVAT & RIVES, 1984)

Mushiro-take

- Type locality: none originally given; designated 'Ponape, Caroline islands, Micronesia' (BRATCHER & CERNOHORSKY, 1987).
- Distribution: Mie prefecture (Nansei town) and southwards, P6-P5, ECP4-ECP2, P2; Red Sea via tropical Indo-Pacific to Gulf of California, Mexico.
- Habitat: intertidal to 100 m., sand.

G4081 *T. columellaris* HINDS, 1844-b

(= *T. carnicolor* PRESTON, 1908)

Shiro-futa-suji-giri

- Type locality: none originally given; designated 'Suva, Fiji' (BRATCHER & CERNOHORSKY, 1987).
- Distribution: Izu islands and southwards, P6-P5, ECP4-ECP2, P2; tropical Indo-Pacific, Red Sea to Polynesia, Hawaii, Australia.
- Habitat: intertidal to 50 m., sand.

G4082 *T. kilburni* BURCH, 1965

(= *T. areolata* ADAMS & REEVE, 1850 in 1848-50 *non* LINK, 1807)

Kasuri-kongō-tokusa (= Kirubān-take)

- Type locality: off Wading (Wadigi) islands, Fiji, 2-3 ft.
- Distribution: Kii peninsula (Cape Shio) and southwards, P5, ECP4-ECP2, P2; South Africa to French Polynesia, Hawaii, Australia.
- Habitat: 1-110 m., sand.

G4083 *T. nebulosa* SOWERBY I, 1825

Shumadara-giri (= Shumadara-take)

- Type locality: none originally given; designated 'Honiara, Solomon islands' (BRATCHER & CERNOHORSKY, 1987).
- Distribution: Bōsō peninsula and southwards, P7-P5, Ogasawara islands, Japan sea (northern Yamaguchi prefecture FUKUDA & FUKUDA, 1990, J1), EC5, ECP4-ECP2, P2; tropical Indo-Pacific.
- Habitat: subtidal to 165 m., sand.

G4084 *T. undulata* GRAY, 1834

(= *T. undulata* *var. laevior* SCHEPMAN, 1913 in 1908-13)

Kongō-tokusa

- Type locality: none originally given; designated 'Suva reef, Fiji' (BRATCHER & CERNOHORSKY, 1987).
- Distribution: Kii peninsula and southwards, P5, ECP4-

ECP2, P2; tropical Indo-Pacific, Persian Gulf to Hawaii.

- Habitat: 10-40 m., sand.

G4085 *T. parkinsoni* CERNOHORSKY & BRATCHER, 1976

Nyorai-tokusa (= Pākinson-tokusa)

- Type locality: Nordup, East New Britain, Papua New Guinea, 24 m.
- Distribution: off Cape Shio (Kii peninsula, KOYAMA, 1996), P5; Red sea to Fiji islands.
- Habitat: 15-20 m.

G4086 *T. paucistriata* E. A. SMITH, 1873

(= *T. (Decorihastula) paucistriata sensu* CERNOHORSKY & JENNINGS, 1966; *T. paucistriata sensu* CERNOHORSKY, 1967)

Hime-kongō-tokusa

- Type locality: Ovalau, Fiji islands, 5 fms.
- Distribution: off Cape Shio (Kii peninsula, KOYAMA, 1996), P5; Red sea to Fiji islands.
- Habitat: intertidal to 14 m.

G4087 *T. flavofasciata* PILSBRY, 1921

(= *T. (Decorihastula) flavofasciata sensu* CERNOHORSKY & JENNINGS, 1967)

Futa-suji-kongō-tokusa

- Type locality: Launiupoko camp, west Maui, Hawaii.
- Distribution: off Cape Shio (Kii peninsula, KOYAMA, 1996), P5; Mozambique to Hawaii.
- Habitat: subtidal.

G4088 *T. wellsilviae* AUBRY, 1994

Ponkan-tokusa

- Type locality: Cebu and Panglao islands, Philippines.
- Distribution: southwestern Shikoku (off Okinoshima, 40-60 m. TSUCHIDA & TANGE, 1998); Philippines.
- Habitat: 40-60 m., sand.

G4089 *T. conspersa* HINDS, 1844-b

(= *T. hindsii* DESHAYES, 1857; *T. bruguieri* DESHAYES, 1859)

Yamazaki-take (= Arame-ki-takenoko)

- Type locality: Catabalunga, Samar, Philippines; 8 fms.
- Distribution: southwestern Shikoku (Okinoshima) and southwards, P5, Kagoshima bay, EC5; China to Tonga.
- Habitat: intertidal to 20 m., sand.

G4090 *T. amoena* DESHAYES, 1859

(= *T. specillata* HINDS *sensu* REEVE, 1860 in 1843-65 *non* HINDS, 1844; *T. andamanica* MELVILL & SYKES, 1898)

Hayate-giri (= Ki-takeonoko-modoki)

- Type locality: 'China Seas'.
- Distribution: Kii peninsula and southwards, P5, Kagoshima bay, EC5; Indian ocean, Andaman islands to Hawaii.



- Habitat: 2-233 m., sand.

G4091 *T. pertusa* (BORN, 1778)

Ki-takenoko (= Ki-take-gai)

- Type locality: none originally given. Designated 'Madang, Papua New Guinea' (BRATCHER & CERNOHORSKY, 1987).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; tropical Indo-Pacific.
- Habitat: subtidal to 160 m., sand.
- Original genus: *Buccinum*.

G4092 *T. alveolata* HINDS, 1844-g

Fushidaka-shichiku (= Ara-mushiro-take)

- Type locality: Straits of Malacca, Indonesia.; 31 m.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indonesia.
- Habitat: subtidal to 10 m., sand.

G4093 *T. marmorata* DESHAYES, 1859

Mike-iro-take (= Tsuzure-take)

- Type locality: 'Moreton bay' (Queensland, Australia).
- Distribution: southwestern Shikoku (Okinoshima) and southwards, P5, ECP4-ECP2; tropical Pacific, western Australia.
- Habitat: intertidal to 30 m., sand.

G4094 *T. campbelli* BURCH, 1965

Kyanperu-giri

- Type locality: 'off Tosa bay, Japan': 33° 25' N., 133° 32' E., 70 fms.
- Distribution: Tosa bay to New Caledonia.
- Habitat: 140-400 m.

G4095 *T. melanacme* E. A. SMITH, 1875-b

Shirane-take

- Type locality: 'Cape Shima, Japan' (probably Shima peninsula, Mie prefecture, central Honshū); 18 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Yuno-hama, Yamagata prefecture; J3-J1).
- Habitat: 10-50 m., sand.

G4096 *T. gotoensis* E. A. SMITH, 1879-b

Gotō-take

- Type locality: 'Goto islands in the Korean Channel: 33° 19' N., 129° 7' E., 50 fms.'
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5.
- Habitat: 10-50 m., sand.

G4097 *T. blanda* DESHAYES, 1859

Ori-ire-take

- Type locality: 'Japan'.
- Distribution: Japan to western Australia (BRATCHER & CERNOHORSKY, 1987).

G4098 *T. japonica* E. A. SMITH, 1873

(= *T. lischkeana* DUNKER, 1877)

Hime-tokusa

- Type locality: 'Japan'.
- Distribution: northeastern Honshū (Ōtsuchi bay, Iwate prefecture TSUCHIDA, 1991) and southwards, P9-P5, Seto inland sea, Japan Sea (Yamagata prefecture and southwards, J3-J1), EC5, ECP4.
- Habitat: intertidal to 50 m., sand.

G4099 *T. awajiensis* PILSBRY, 1904-b

Awaji-take

- Type locality: Fukura, Awaji island, Seto inland sea.
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (Yamagata prefecture and southwards, J3-J1).
- Habitat: 10-125 m., sand.

G4100 *T. nitida* HINDS, 1844-b

(= *T. plicatella* DESHAYES, 1857; *T. cernica* SOWERBY, 1894; *T. nitida* var. *sicyodes* MELVILL & SYKES, 1898)

Tsuya-tokusa-modoki

- Type locality: 'Marquesas Is., in 7 fms., sandy mud'.
- Distribution: Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific, Australia.
- Habitat: intertidal to 30 m., sandy mud.

G4101 *T. livida* REEVE, 1860 in 1843-65

Taiwan-tokusa

- Type locality: 'Philippine Is.'
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines to Fiji.
- Habitat: subtidal, sand.

**Note:** provisionally retained pending further study; specimens from Japan may belong to *T. succincta*.

G4102 *T. succincta* (GMELIN, 1791)

(= *Epitonium fissum* RÖDING, 1798; *T. cancellata* QUOY & GAIMARD, 1833; *T. bermonti* LOROIS, 1857; *T. flavescens* DESHAYES, 1859; *T. undatella* DESHAYES, 1859; *T. (Diplomeriza?) cancellata* GREY' (sic) sensu SHIKAMA, 1964; *T. livida* sensu KOYAMA, 1996 non REEVE)

Kokoa-tokusa

- Type locality: 'in *Oceano indico*' (Indian Ocean).
- Distribution: Kii peninsula (KOYAMA, 1996), P5, P2; Taiwan and southwards, tropical Indo-Pacific.
- Habitat: subtidal to 30 m., sand.
- Original genus: *Buccinum*.

G4103 *T. textilis* HINDS, 1844-b

(= *T. roseata* ADAMS & REEVE, 1850 in 1848-50; *T. exigua* DESHAYES, 1859; *T. souleyeti* DESHAYES,

1859)

Hime-tokusa-modoki

- Type locality: Sorgoson, Manila bay, Philippines, and straits of Macassar, Indonesia; 6-13 fms.
- Distribution: Sagami bay and southwards, P6-P5, ECP4-ECP2, P2; tropical Indo-Pacific.
- Habitat: subtidal to 30 m., sand.

G4104 *T. subtextilis* E. A. SMITH, 1879-b

(= *T. hizenensis* PILSBRY, 1904-b)

Shira-take (= Hizen-shira-take)

- Type locality: 'Between south-western extremity of Nippon and the island of Shikoku' (western Seto inland sea): 33° 45.5' N., 132° 30' E., 30 fms.
- Distribution: Sagami bay and westwards, P6-P5, Seto inland sea, Kyūshū.
- Habitat: 10-30 m., sand.

G4105 *T. polygyrata* DESHAYES, 1859

(= *T. ambrosia* MELVILL, 1912)

Kagome-giri

- Type locality: 'les Îles Philippines' (Philippine islands).
- Distribution: Kii peninsula and southwards, P5, western Seto inland sea (Yamaguchi prefecture), ECP4-ECP2, P2; Gulf of Oman to Fiji.
- Habitat: subtidal to 100 m., sand.

G4106 *T. fortunei* DESHAYES, 1857

(= *T. (Strioterebrum) multistriata* SCHEPMAN, 1913 in 1908-13)

Hime-nunome-giri

- Type locality: 'China Sea'.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; China, Philippines, northern Australia to Melanesia.
- Habitat: subtidal to 200 m., sand.

G4107 *T. hirasei* VREDENBURG, 1921

(= *T. sp. sensu* Y. HIRASE, 1917)

Nunome-giri

- Type locality: Burma (fossil).
- Distribution: Suruga bay to western Shikoku (Bungo strait), P6-P5.
- Habitat: 20-100 m., sand.

G4108 *T. taylora* REEVE, 1844 in 1843-65

Murasaki-take

- Type locality: 'Torres strait, Australia'.
- Distribution: Japan Sea (northern Yamaguchi prefecture KAWAMOTO, 1966; J1), EC5, ECP4-ECP2, P2; Tanzania, east Africa to Solomon islands.
- Habitat: intertidal to 20 m., sand.

G4109 *T. pumilio* (E. A. SMITH, 1873)

(= *T. tantilla* E. A. SMITH, 1873; *T. asiatica* RAY, 1968)  
Sukuna-bikona-tokusa (= Heri-guro-tsukushi)

- Type locality: none designated.
- Distribution: western Seto inland sea (Ōita and Yamaguchi prefectures YAMASHITA, 1996); Persian Gulf to eastern India.
- Habitat: subtidal to 60 m., sandy mud.
- Original genus: *Myurella*.

G4109-1 *T. brunnea* KURODA, 1928-c

(= *T. sp. sensu* HIRASE, 1917: 28, pl. 5, fig. 78)

Kuri-iro-hime-take

- Type locality: 'Ōsumi Ōshima' (Amami Ōshima).
- Distribution: Izu-shirahama (Izu peninsula, central Honshū), Amami Ōshima
- Habitat: subtidal, sand.

**Note:** originally in subgenus *Acuminia*.

G4110 *T. suavidica* YOKOYAMA, 1922

Musashino-hime-take

- Type locality: Shisui, Inba-gun, Chiba prefecture, central Honshū (fossil).
- Distribution: Izu peninsula and southwards, Enshū-nada, Tosa bay.
- Habitat: subtidal, sand.

#### Notes

- *Terebra bipartita* GOULD, 1860 in 1859-60 *non* DESHAYES, 1859 (type locality: Hakodate bay, Hokkaidō; 20 fms.) is a 'dubious species' *fide* BRATCHER & CERNOHORSKY, 1987; the present authors agree. Hakodate is far beyond the northern distribution limit of any terebrid species. JOHNSON (1964) does not figure or otherwise identify any type material.
- Sawakado-tokusa *Terebra polygonia* REEVE, 1860 in 1843-65 (= Susoguro-tokusa) was reported from Okinoshima, southern Shikoku by KURODA (1963) but with no figure. The species is otherwise known only from the holotype (BRATCHER & CERNOHORSKY, 1987), and REEVE gave no type locality.

□ Genus *Hastula* H. & A. ADAMS, 1853 in 1853-58  
Type species: *Buccinum strigillatum* LINNAEUS, 1758 (s. d. COSSMANN, 1896)

Subgenus *Hastula s. str.*

(= *Acuminia* DALL, 1908; *Hastulina* ŌYAMA, 1961-a)

G4111 *H. (H.) strigilata* (LINNAEUS, 1758)

(= *Buccinum concinnum* DILLWYN, 1817; *Terebra striatula* KIENER, 1839; *T. verrauxi* DESHAYES, 1857; *T. argenvillii* DESHAYES, 1859; *T. strigilata gracilior* THIELE, 1925; *strigillata auct.*)

Shichiku-modoki

- Type locality: 'in *O. Asiatico*' (Asian seas).
- Distribution: southwestern Kyūshū and southwards, EC5, ECP4-ECP2, P2; Arabian Sea to Hawaii, tropical Indo-Pacific, French Polynesia.

- Habitat: intertidal to 100 m., sand.
- Original genus: *Buccinum*.

G4112 *H. (H.) matheroniana* (DESHAYES, 1859)  
(= *Terebra modesta* DESHAYES, 1859; *T. lauta* PEASE, 1869; *T. strigilata sumatrana* THIELE, 1925)

Hoso-shichiku-modoki

- Type locality: Tahiti.
- Distribution: Kii peninsula (KOYAMA, 1996), P5, Ogasawara islands (FUKUDA, 1995), Amami islands and southwards, ECP3-ECP2, P2; tropical Indo-Pacific.
- Habitat: intertidal to 100 m., sand.
- Original genus: *Terebra*.

G4113 *H. (H.) parva* (BAIRD, 1873)

Obinashi-shichiku

- Type locality: New Caledonia.
- Distribution: Okinawa islands and southwards, ECP2, P2; tropical Indo-Pacific.
- Habitat: intertidal to 7 m., sand.
- Original genus: *Terebra* (*Leiostoma*).

G4114 *H. (H.) rufopunctata* (E. A. SMITH, 1877)  
(= *Terebra* (*Abretia*) *diversa* E. A. SMITH, 1901; *H. strigillata* (*sic*) *nipponensis* KURODA & ŌYAMA in KURODA *et al.*, 1971)

Shichiku-gai

- Type locality: none originally given; designated 'Natal, South Africa' (BRATCHER & CERNOHORSKY, 1987).
- Distribution: Boso peninsula and southwards, P8-P5, Ogasawara islands (FUKUDA, 1995), Japan Sea (Noto peninsula and southwards, J1), EC5, ECP4-ECP2, P2; Korea, tropical Indo-Pacific, South Africa, western Australia.
- Habitat: intertidal to 10 m., sand.
- Original genus: *Terebra* (*Hastula*).

G4115 *H. (H.) lanceata* (LINNAEUS, 1767)  
(= *Terebra lanceata oahuensis* PILSBRY, 1921; *T. oahuensis sensu* AUBRY, 1984)

- Type locality: 'in India'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; tropical Indo-Pacific.
- Habitat: intertidal to 120 m., sand.
- Original genus: *Buccinum*.

G4116 *H. (H.) penicillata* (HINDS, 1844-g)  
(= *Terebra venosa* HINDS, 1844; *T. crossii* DESHAYES, 1859; *H. (Punctoterebra) betsyae* BURCH, 1965)

Yanagi-shibori-take

- Type locality: Seychelles.
- Distribution: southern Shikoku and southwards, P5, Ogasawara islands (FUKUDA, 1995), EC5, ECP4-ECP2, P2; Seychelles to Easter islands and Hawaii.
- Habitat: intertidal to 114 m., sand.

- Original genus: *Terebra*.

G4117 *H. (H.) albula* (MENKE, 1843)

(= *Terebra casta* HINDS, 1844; *T. mera* HINDS, 1844; *T. incolor* DESHAYES, 1859; *T. bipartita* DESHAYES, 1859; *T. (Hastula) casta var. natalensis* E. A. SMITH, 1903)

Migaki-take

- Type locality: 'in littori occidentali' ('western shores' of Australia).
- Distribution: Bōsō peninsula and southwards, P7-P5, ECP4-ECP2, P2; tropical Indo-Pacific, Red Sea to Mexico.
- Habitat: intertidal to 116 m., sand.
- Original genus: *Terebra*.

G4118 *H. (H.) solida* (DESHAYES, 1859)

(= *Buccinum aciculatum* GMELIN, 1791 *nomen oblitum*; *Terebra clarkei* M. SMITH, 1912)

Goban-take

- Type locality: 'Le Japon' (Japan).
- Distribution: Kii peninsula (KOYAMA, 1996), P5, Amami Ōshima and southwards, ECP3-ECP2, P2; tropical Indo-Pacific.
- Habitat: intertidal to 120 m., sand.
- Original genus: *Terebra*.

G4119 *H. (H.) celidonata* (MELVILL & SYKES, 1898)

Azatsuya-tokusa-modoki

- Type locality: 'Andamans' (Andaman islands, Indian Ocean).
- Distribution: Okinawa (KURODA, 1963-a); Andaman islands to Marquesas.

**Note:** Shiwa-migaki-take (= Hakama-migaki-take) is usually cited as *Terebra medipacifica* PILSBRY, 1921-a (type locality: off Honolulu, Hawaii; 6-8 fms.); it has been reported from southern Shikoku and the Ryūkyū islands, but the present authors have been unable to confirm distribution of this species in Japan.

Subgenus *Impages* E. A. SMITH, 1873

Type species: *Terebra caerulescens* LAMARCK, 1822 (= *Buccinum hectica* LINNAEUS, 1758)

G4120 *H. (I.) hectica* (LINNAEUS, 1758)

(= *Buccinum niveum* GMELIN, 1791; *B. edentulum* GMELIN, 1791; *B. bifasciatum* DILLWYN, 1817; *Terebra caerulescens* LAMARCK, 1822 in 1815-22; *B. terebrale* MENKE, 1828; *T. caerulescens var. otaitensis* LESSON, 1830; *T. castanea* KIENER, 1839; *Bullia fuscus* GRAY in DIEFFENBACH, 1843; *T. nimbose* HINDS, 1844; *T. flammulata* MARTENS, 1880; *T. hectica var. alba, fusca* 'MARTYN', all DAUTZENBERG, 1935; *T. nimbose* DAUTZENBERG, 1935)

Murakumo-take (= Shiro-obi-kuro-take)

- Type locality: 'in O. Africano' (African seas).

- Distribution: Okinawa islands and southwards, ECP2, P2; tropical Indo-Pacific.
- Habitat: intertidal to 4 m., sand.
- Original genus: *Buccinum*.

G4121 *H. (I.) stylata* (HINDS, 1844-g)

(= *Terebra aciculina sensu* REEVE, 1845 non LAMARCK, 1822 in 1815-22; *T. confusa* E. A. SMITH, 1877)

Kuchi-biro-take

- Type locality: 'Japan; Philippine islands'; restricted to 'Cagayan, Mindanao, Philippines' (BRATCHER & CERNOHORSKY, 1987).
- Distribution: Ogasawara islands and southwards, P11, ECP3-ECP2, P2; tropical Pacific to Easter islands.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Terebra*.

G4122 *H. (I.) anomala* (GRAY, 1834)

Hiro-tokusa-modoki

- Type locality: none originally given; designated 'Singapore' (BRATCHER & CERNOHORSKY, 1987).
- Distribution: Kashiwajima (Bungo strait, southwestern Shikoku) and southwards, P5, ECP4-ECP2, P2; Madagascar to Philippines.
- Habitat: 8-14 m., sand.
- Original genus: *Terebra*.

G4123 *H. (I.) bacillus* (DESHAYES, 1859)

(= *Terebra apicina* DESHAYES, 1859; *T. lactea* DESHAYES, 1859)

Hime-murakumo-take

- Type locality: 'Îles Sandwich' (Hawaii; probably erroneous). Redesignated 'Singapore, Malaysia' (BRATCHER & CERNOHORSKY, 1987).
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, Singapore, Papua New Guinea.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Terebra*.

**Notes:** Hoso-suji-migaki-take *Terebra continua* DESHAYES, 1859 is only known from the lectotype (BMNH 1978.9.8) and two paralectotypes in the MNHN in Paris. The label with the lectotype reads 'Japan', but DESHAYES cited no locality in the original description, and no further material is known.

□ Genus *Duplicaria* DALL, 1908

Type species: *Buccinum duplicata* LINNAEUS, 1758 (o. d.)

(= *Diplomeriza* DALL, 1919)

G4124 *D. duplicata* (LINNAEUS, 1758)

(= *Terebra lamarckii* KIENER, 1839; *T. reevei* DESHAYES, 1857; *Myurella (Myurellisca) duplicatoides* BARTSCH, 1923; *T. (Diplomeriza) australis* (E. A.

SMITH) *sensu* SHIKAMA, 1964)

Tokusa-modoki

- Type locality: 'in *O. Indico*' (Indian ocean); restricted to 'Ceram island, Moluccas, Indonesia' (BRATCHER & CERNOHORSKY, 1987).
- Distribution: Kii peninsula (KOYAMA, 1996), P5, Amami islands and southwards, ECP3-ECP2, P2; Red Sea to South Africa, Solomon islands.
- Habitat: subtidal, sand.
- Original genus: *Buccinum*.

G4125 *D. spectabilis* (HINDS, 1844-g)

(= *Terebra geminata* DESHAYES, 1859; *T. gracilis* REEVE, 1860; *T. remanalva* MELVILL, 1910; *T. edgarii* MELVILL, 1898)

Itohiki-tokusa

- Type locality: 'Guinea and Sumatra'; restricted to 'Sumatra, Indonesia' (BRATCHER & CERNOHORSKY, 1987).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Persian Gulf to South Africa, Indonesia.
- Habitat: 10-100 m., sand.
- Original genus: *Terebra*.

G4126 *D. dussumierii* (KIENER, 1839 in 1834-80)

(= *H. nitida sensu* OKUTANI, 1975 non HINDS, 1844) Nuri-tsuya-tokusa

- Type locality: 'les mers de la Chine' (China seas).
- Distribution: western Japan Sea (J1), P2; southern Korea (Anmyon island; Osik island) and southwards, Taiwan, South China Sea, China to Indonesia.
- Habitat: 30-100 m., sand.
- Original genus: *Terebra*.

G4127 *D. kirai* (ŌYAMA, 1962-a)

Kira-tokusa

- Type locality: off Mie prefecture (central Honshū), 100 m.
- Distribution: Enshū-nada (off Aichi prefecture) and southwards, P6-P5, western Kyūshū.
- Habitat: 60-150 m., sand.
- Original genus: *Noditerebra (Diplomeriza)*.

G4128 *D. evoluta* (DESHAYES, 1859)

(= *Terebra dussumieri sensu* IWAKAWA, 1900)

Iwakawa-tokusa

- Type locality: 'Japan'.
- Distribution: Ibaraki prefecture and southwards, P8-P5, Japan Sea (Fukiura, Yamagata prefecture: J3-J1), EC5; Korea, northern China.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Terebra*.

G4129 *D. hiradoensis* (PILSBRY, 1921-a)

(= *Terebra dussumieri sensu* TRYON, 1875 (*pars*);

IWAKAWA, 1909; *T. (Punctoterebra) lischkeana sensu*  
KIRA, 1959)

Tokusa-gai

- Type locality: 'Hirado, Hizen' (Hirado island, Nagasaki prefecture, western Kyūshū).
- Distribution: Fukushima prefecture (NEMOTO & AKIMOTO, 1990) and southwards, P8-P5, western Kyūshū, Gotō islands.
- Habitat: subtidal.
- Original genus: *Terebra* (as ssp. of *T. dussumieri*).

G4130 *D. recticostata* (YOKOYAMA, 1920)

Sugu-une-tokusa

- Type locality: Naganuma, Totsuka-ku, Yokohama City (fossil).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1).
- Habitat: 20-100 m., muddy sand.
- Original genus: *Terebra*.

G4131 *D. latisulcata* (YOKOYAMA, 1922)

(= *Cerithiopsis nodocostatus* YOKOYAMA, 1922)

Hiro-une-tokusa

- Type locality: Shitō, Ichihara City, Chiba prefecture, central Honshū (fossil).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5..
- Habitat: 5-40 m., sand.
- Original genus: *Terebra*.

G4132 *D. badia* (DESHAYES, 1859)

(= *Terebra castanea* KIENER *sensu* HINDS in  
SOWERBY II, 1844 *non* KIENER, 1839; *T. ligneola*  
REEVE, 1860)

Itokake-tokusa

- Type locality: 'Mauritius & Guinea' (erroneous). Redesignated 'China' after Reeve (BRATCHER & CERNOHORSKY, 1987).
- Distribution: P2; China and Taiwan, South China Sea.
- Habitat: intertidal to 60 m., sand.
- Original genus: *Terebra*.

G4133 *D. baileyi* BRATCHER & CERNOHORSKY,  
1982

(= *D. australis* E. A. SMITH *sensu* CERNOHORSKY,  
1967; SALISBURY, 1978; HINTON, 1978)

Ninuri-tokusa (= Bairei-tokusa)

- Type locality: Guadalcanal, Solomon islands: 9° 25' S., 159° 56' E., 20 m.
- Distribution: Ogasawara islands (FUKUDA, 1995); Mozambique, east Africa to Fiji.
- Habitat: intertidal to 200 m., sand.

G4134 *D. teramachii* BURCH, 1965

Teramachi-tokusa

- Type locality: Tosa bay, southern Shikoku; 70 fms.
- Distribution: Ogasawara islands (FUKUDA, 1995), Kii peninsula and southwards, P5, ECP4-ECP2, P2; New Caledonia, Solomon islands.
- Habitat: 140-160 m., sand.

G4135 *D. raphanula* (LAMARCK, 1822 in 1815-22)

Migaki-tokusa

- Type locality: none originally given; designated 'Rabaul, Papua New Guinea' (BRATCHER & CERNOHORSKY, 1987).
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; South Africa to Fiji islands.
- Habitat: subtidal to 36 m., sand.
- Original genus: *Terebra*.

G4136 *D. koreana* (YOO, 1976)

Chōsen-tokusa

- Type locality: Yokji Do, Kyongsangnam Do, Korea.
- Distribution: Korea Strait.
- Original genus: *Diplomeriza*.

G4137 *D. albozonata* (E. A. SMITH, 1875-b)

Shiro-obi-tokusa

- Type locality: Matoza Harbour (Okinawa), 6 fms.
- Distribution: Kii peninsula (Cape Shio) and southwards, P5, Seto inland sea, Japan Sea (northern Yamaguchi prefecture, J1), EC5, Okinawa island, ECP4-ECP2.
- Habitat: subtidal to 50 m., sand or sandy mud.

□ Genus *Terenolla* IREDALE, 1929

Type species: *Terebra pygmaea* HINDS, 1844

G4138 *T. pygmaea* (HINDS, 1844-g)

(= '*Turbonilla?*' *princeps* PRESTON, 1905)

Chibi-takenoko-gai

- Type locality: Straits of Malacca, Indonesia; 17 fms.
- Distribution: Izu peninsula and southwards, P6-P5, Hachijō island, P11, Ogasawara islands (Chichijima FUKUDA, 1995), ECP4-ECP2, P2; Philippines, tropical Indo-Pacific.
- Habitat: intertidal to 30 m., sand.
- Original genus: *Terebra*.

Superorder **HETEROBRANCHIA** GRAY, 1840

Superfamily **VALVATOIDEA** GRAY, 1840

Family **CORNIROSTRIDAE** PONDER, 1990

□ Genus *Tomura* PILSBRY & MCGINTY, 1946

Type species: *Vitrinella (Tomura) bicaudata* PILSBRY & MCGINTY, 1946 (mt.)

G4139 *T. yashima* FUKUDA & YAMASHITA, 1997

Yashima-ishin

- Type locality: Furu-ura, Yashima island, Kaminoseki, off Yamaguchi prefecture (western Honshū; Seto inland Sea).

- Distribution: recorded only from type locality.
- Habitat: intertidal, under stones in tide pool.

G4140 *T. himeshima* FUKUDA & YAMASHITA, 1997  
Himeshima-ishin

- Type locality: Mitsuke, Himeshima island, off Oita prefecture (eastern Kyushū; Seto inland Sea).
- Distribution: recorded only from type locality.
- Habitat: under stones in mud at canal mouth.

Family **ORBITESTELLIDAE IREDALE, 1917**

□ Genus *Orbitestella* IREDALE, 1917

Type species: *Cyclostrema bastowi* GATLIFF, 1906 (o. d.)

G4141 *O. regina* KAY, 1979

Mijin-haguruma-gai

- Type locality: Keahole point, Hawaii.
- Distribution: Amami islands and southwards, ECP3-ECP2; Hawaii.
- Habitat: intertidal to low water.

Family **HYALOGYRINIDAE WARÉN & BOUCHET, 1993**

**Notes:** this family is not yet firmly established; its position in the Heterostropha is supported by the present authors following HASEGAWA (1997-a).

□ Genus *Hyalogyrina* MARSHALL, 1988

Type species: *Hyalogyrina glabra* MARSHALL, 1988 (o. d.)

G4142 *H. depressa* HASEGAWA, 1997-a

Garasu-shitadami

- Type locality: Suruga bay, central Honshū: off Heda, 400-700 m.
- Distribution: Suruga bay (HASEGAWA, 1997-a).
- Habitat: 400-740 m., on wood.

Superfamily **ARCHITECTONICOIDEA GRAY, 1840**

Family **MATHILDIDAE DALL, 1889**

(Refs.: Bieler, 1995)

□ Genus *Mathilda* SEMPER, 1865

Type species: *Turbo quadricarinatus* BROCCCHI, 1914 (= *Opimilda* IREDALE, 1929; *Granulicharilda* KURODA & HABE in KURODA *et al.*, 1971)

G4143 *M. quinquelirata* KURODA, 1958-a

Oneji-takumi-nina (= Ō-kuringai-modoki)

- Type locality: Tosa bay, southern Shikoku.
- Distribution: Tosa bay.
- Habitat: 200 m., sand.

G4144 *M. cancellata* KURODA, 1958-a

Usu-ginu-takumi-nina

- Type locality: Tosa bay, southern Shikoku.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and westwards, Sagami bay, P7-P5, Japan Sea (Wakasa bay).

- Habitat: 100-200 m., sand.

G4145 *M. scalaris* (KURODA & HABE in KURODA *et al.*, 1971)

Itokake-takumi-nina

- Type locality: Sagami bay, central Honshū.
- Distribution: off Chōshi (Chiba prefecture, central Honshū), Sagami bay.
- Habitat: 110-150 m., sand.
- Original genus: *Opimilda*.

G4146 *M. cerea* KURODA, 1958-a

Rō-iro-takumi-nina

- Type locality: Tosa bay, southern Shikoku.
- Distribution: Bōsō peninsula and southwards, Enshū-nada, Tosa bay.
- Habitat: 100-300 m., sand.

G4147 *M. gemmulifera* KURODA, 1958-a

Arare-rō-iro-takumi-nina

- Type locality: Tosa bay, southern Shikoku; ± 100 fms.
- Distribution: Bōsō peninsula and southwards, Enshū-nada, Tosa bay.
- Habitat: 50-200 m., sand.

G4148 *M. sinensis* FISCHER, 1867

Takumi-nina (= Kurin-gai-modoki)

- Type locality: Zhoushan, Qundao, China.
- Distribution: Bōsō peninsula and southwards, Ogasawara islands (Iōjima) P11, P7-P5, Japan Sea (off northern Niigata prefecture, J3-J1), EC5, ECP4-ECP2.
- Habitat: intertidal to 300 m., sand in bays.

G4149 *M. amanda* THIELE, 1925

(= *Eucharilda japonica* KURODA & HABE in KURODA *et al.*, 1971)

Ō-takumi-nina

- Type locality: East Africa.
- Distribution: Sagami bay and southwards, P6-P5, western Kyūshū, EC5, ECP4 (20-50 m., sand); eastern Africa.

G4150 *M. fusca* (OKUTANI & HABE, 1981)

Kurayami-urauzu-kanimori (= Kurayami-takumi-nina)

- Type locality: southwest off Cape Shio, Kii peninsula, central Honshū; ± 450 m.
- Distribution: recorded only from type locality.
- Original genus: *Orectospira*.

G4151 *M. sagamiensis* (KURODA & HABE in

**KURODA *et al.*, 1971)**

Juzukake-takumi-nina

- Type locality: 2 km. south-southwest of Jōgashima, Sagami bay, central Honshū.
- Distribution: Sagami bay.
- Habitat: 50-150 m., sand.
- Original genus: *Granulicharilda*.

Family **ARCHITECTONICIDAE GRAY, 1840**

(Refs.: Bieler, 1993)

□ Genus ***Architectonica* RÖDING, 1798**

Type species: *Trochus perspectivus* LINNAEUS, 1758 (s. d. GRAY, 1847)

Subgenus ***Architectonica* s. str.**

G4152 A. (A.) ***perspectiva* (LINNAEUS, 1758)**

(= *Solarium fuliginosum* HINDS, 1844; *S. formosum* HINDS, 1844; *S. maculatum* REEVE, 1848; *S. australe* PHILIPPI, 1849; *S. incisum* PHILIPPI, 1849; *S. zonatum* PHILIPPI, 1849; *S. striatum* GRAY, 1850; *S. cumingii* HANLEY, 1862; *S. (Architectonica) hanleyi* SOWERBY in HANLEY, 1863; *S. trisulcatum* JOUSSEAUME, 1876; *A. perspectiva fressa* IREDALE, 1936; *A. perspectiva* var. *heurni* BAYER, 1940)

Kuro-suji-guruma

- Type locality: '*O. Asiae littoria*' (beaches of Asian seas).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Taiwan, Philippines, Indo-Pacific to Hawaii and Polynesia, Australia, Indian Ocean from South Africa to Indonesia, Red Sea, Persian Gulf.
- Habitat: 10-120 m., sand.
- Original genus: *Trochus*.

G4153 A. (A.) ***trochlearis* (HINDS, 1844-d)**

(= *A. perspectivum* MARSHALL (*pars*), 1887; *A. maxima sensu* KURODA *et al.*, 1971; *A. nobilis* SENDERS & SENDERS, 1984)

Kuruma-gai

- Type locality: 'Indian Seas'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Mishima, J2-J1), EC5; Taiwan, Philippines, Indo-Pacific to Hawaii, northern Australia, Indian Ocean from Madagascar to Indonesia, Red Sea.
- Habitat: 30-90 m., sandy mud; rarely also at 200-400 m.
- Original genus: *Solarium*.

G4154 A. (A.) ***maxima* (PHILIPPI, 1849-b)**

(= *Solarium perspectivum* LAMARCK, 1816 non LINNAEUS, 1758; *A. trochlearis sensu* KURODA *et al.*, 1971 non HINDS, 1844)

Maki-mizo-guruma (= Misaki-guruma)

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, Ogasawara islands (FUKUDA, 1995), Japan Sea (Mishima, J2-J1), EC5; Taiwan, Philippines, Indo-Pacific to Polynesia, Indian Ocean from Zanzibar to Indonesia ('Records from Madagascar, Australia and New Zealand in need of verification' BIELER, 1993).
- Habitat: 10-165 m., sandy mud; rarely to 280 m.
- Original genus: *Solarium*.

**Notes:** Daiō-guruma A. (A.) *grandiosa* IREDALE, 1931

(Type locality: Sydney harbour, Australia) is possibly present off southern Honshū and Taiwan (BIELER, 1993).

G4155 A. (A.) ***gualtierii* BIELER, 1993**

(= *Solarium granulatum* KIENER, 1838-9 non LAMARCK, 1816; *S. australe* MÖRCH, 1852 non PHILIPPI, 1849; *S. (Architectonica) quadriceps (pars)* HANLEY, 1863 non HINDS, 1844; *S. maximum* SOWERBY III, 1897 non PHILIPPI, 1849; *Architectonica* sp. II aff. *grandiosa sensu* BIELER, 1984; A. cf. *laevigata sensu* BOSS & MERRILL, 1984)

Fukamizo-guruma

- Type locality: 'Tosa bay, Shikoku, Japan, 91 m (50 fms)'.
- Distribution: Ōsaka bay and southwards, Tosa bay, Amami Ōshima; 'Indian Ocean to central Pacific (excluding Australia)?' (BIELER, 1993).
- Habitat: subtidal to 95 m., sandy mud.

G4156 A. (A.) ***taylori* (HANLEY, 1862)**

(= *Solarium maximum* MARSHALL (*pars*) 1887 non PHILIPPI, 1849; *A. perspectiva sensu* LAI, 1986 non LINNAEUS, 1758)

Shamu-kuruma-gai (= Niyori-maki-mizo-guruma)

- Type locality: none designated.
- Distribution: Sagami bay and southwards, P7-P5, EC5, ECP4-ECP2, P2; 'Sri Lanka, the Philippines, Indonesia and the northwestern subtropical Pacific' (BIELER, 1993).
- Habitat: 30-90 m., sand.
- Original genus: *Solarium*.

G4157 A. (A.) ***modesta* (PHILIPPI, 1849-b)**

(= *A. perspectiva sensu* SALVAT & RIVES, 1975 non LINNAEUS, 1758)

Shiro-suji-guruma

- Type locality: none designated.
- Distribution: Tosa bay and southwards, P5, ECP4-ECP2, P2; Philippines, 'Subtropical and tropical Indian Ocean and West to central Pacific' (BIELER, 1993).
- Habitat: subtidal to 85 m., sand.
- Original genus: *Solarium*.

Subgenus ***Adelphotectonica* BIELER, 1987**

Type species: *Solarium reevei* HANLEY, 1862 (o. d.)

G4158 A. (Ad.) ***reevei* (HANLEY, 1862)**

(= *Solarium maximum* HEDLEY, 1903 non PHILIPPI, 1849; *A. offlexa* IREDALE, 1931; *A. relata* IREDALE, 1936; *A. reevei venusta* KURODA & HABE in KURODA *et al.*, 1971)

Adeyaka-guruma

- Type locality: none designated; 'Sydney' in HANLEY, 1863
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, Sagami bay, off Kii peninsula, Tosa bay, Ogasawara islands (FUKUDA, 1995); southern

Japan to Australia, New Zealand.

• Habitat: 30-400 m., sand.

G4159 *A. (Ad.) kuroharai* (KURODA & HABE in HABE, 1961-a)

(= *A. quinquisulcosa* KURODA *sensu* HIGO, 1973 *nomen nudum*; *A. pentacyclota* AZUMA, 1973-b)

Hanagasa-guruma (= Tosa-guruma)

• Type locality: off Cape Ashizuri, southwestern Shikoku; 100-150 m.

• Distribution: Bōsō peninsula and southwards, Kii peninsula, Tosa bay; Philippines, Hawaii, New Caledonia.

• Habitat: Subtidal to 494 m., sand.

□ Genus *Philippia* GRAY, 1847

Type species: *Solarium luteum* LAMARCK, 1822 (mt.)

G4160 *P. japonica* (PILSBRY & STEARNS in PILSBRY, 1895-a)

Yakko-guruma

• Type locality: 'Hazaburo, Boshu coast' (Bōsō peninsula, central Honshū).

• Distribution: Bōsō peninsula and southwards, P7-P5, Tosa bay.

• Habitat: 10-30 m., sand.

• Original genus: *Solarium* (as *var.* of *S. conulum*).

□ Genus *Psilaxis* WOODRING, 1928

Type species: *Architectonica (Philippia) krebsii* MÖRCH, 1875 (o. d.)

G4161 *Ps. radiatus* (RÖDING, 1798)

(= *Solarium cingulum* KIENER, 1838-9; *Philippia layardi*

A. ADAMS, 1855; *Solarium (Philippia) hybridum var.*

*undata* HANLEY, 1863; *S. (Philippia) cingulum var.*

*subconcolor* MARTENS, 1880; *Philippia stipator*

IREDALE, 1931; *S. kowiensis* TURTON, 1932)

Gosho-guruma (= Ko-guruma; Koshitaka-guruma;

Kagerō-guruma)

• Type locality: none designated.

• Distribution: Bōsō peninsula and southwards, P7-P5, Ogasawara islands (FUKUDA, 1994), Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Australia to Panama, Indian Ocean from South Africa to Indonesia, Red Sea.

• Habitat: subtidal to 200 m., sand.

• Original genus: *Architectonica*.

G4162 *Ps. oxytropis* (A. ADAMS, 1855)

(= *Philippia manifesta* IREDALE, 1931; *P. radiata sensu* KIRA, 1962 *non* RÖDING, 1798)

Sudare-guruma (= Heritori-ko-guruma)

• Type locality: 'New Caledonia'.

• Distribution: Sagami bay and southwards, Enshū-nada, Kii peninsula, Tosa bay, western Kyūshū; Indo-Pacific, New Caledonia, Australia.

• Habitat: 15-220 m., sand.

• Original genus: *Philippia*.

□ Genus *Discotectonica* MARWICK, 1931

Type species: *Architectonica balcombensis* FINLAY, 1927

(o. d.; = *Solarium acutum* TENISON-WOODS, 1879 *non* CONRAD, 1854)

(= *Acutitectonica* HABE, 1961-a; *Russetia* GARRARD, 1961)

G4163 *D. acutissima* (SOWERBY III, 1914)

(= *Russetia dilaniatus* GARRARD, 1961)

Usuba-guruma

• Type locality: 'Kii, Japan' (Kii peninsula, central Honshū).

• Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, northern Australia.

• Habitat: 50-200 m., sand.

• Original genus: *Solarium*.

G4164 *D. nipponica* (KURODA & HABE in KURODA *et al.*, 1971)

(= *Solariaxis granulata* KOSUGE, 1979; *S. nasui* KOSUGE, 1979)

Chirimen-guruma

• Type locality: Sagami bay, central Honshū; 50-100 m.

• Distribution: off Chōshi (Chiba prefecture, central Honshū), Sagami bay; Midway island.

• Habitat: 50-365 m., sand.

• Original genus: *Solariaxis*.

□ Genus *Granosolarium* SACCO, 1892

Type species: *Solarium millegranum* LAMARCK, 1822 (o. d.)

(= *Solariaxis* DALL, 1892; *Claraxis* IREDALE, 1936;

*Climacopoma* FISCHER, 1885)

G4165 *G. asperum* (HINDS, 1844-d)

(= *Solarium dilectum* DESHAYES, 1863; *Solarium*

(*Torinia*) *admirandum* MELVILL & STANDEN, 1903;

*Claraxis illustris* IREDALE, 1936; *Mangonua kerensis* LADD, 1982)

Chijimi-nawame-guruma

• Type locality: 'Straits of Macassar, in eleven fathoms, coarse sand' (Indonesia).

• Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, Ogasawara islands

(FUKUDA, 1994), Japan Sea (Wakasa bay, J2-J1), EC5, ECP4-ECP2, P2; Philippines, Indonesia, Australia, Indian Ocean from South Africa to Indonesia, Red Sea.

• Habitat: 35-380 m., mud, sand and rubble.

• Original genus: *Solarium*.

G4166 *G. elegantissimum* (KURODA & HABE in HABE, 1961-a)

(= *Heliacus elegantissimus* KURODA, MS *sensu* AZUMA, 1960 *nom. nud.*)



Usuba-nawame-guruma

- Type locality: off Cape Ashizuri, southwestern Shikoku; 100-150 m.
- Distribution: Sagami bay and southwards, Enshū-nada, off Kii peninsula, Tosa bay (100-300 m., sand); New Caledonia (100-545 m., sand).
- Original genus: *Helicacis*.

G4167 *G. mirabile* (SCHEPMAN, 1909 in 1908-13)  
(= *Climacopoma serratomarginata* MACNEIL, 1960)  
Oodoro-nawame-guruma

- Type locality: 'Siboga' sta. 212, Banda Sea, Indonesia (east off Selayar island, southern Sulawesi) ; 5° 45.5' S., 120° 19.2' E., 462 m.
- Distribution: Tosa bay (off Kōchi prefecture, 100 fms. AZUMA, 1960); South Africa (BIELER, 1993), South China Sea, Philippines.
- Habitat: 15-494 m., sand and mud.
- Original genus: *Torinia*.

**Notes:** BIELER (1993) states he was unable to locate Recent material from Japan.

G4168 *G. gemmiferum* BIELER, 1993

Wadatsumi-nawame-guruma

- Type locality: 'Marion-Dufresne' sta. DC56, Réunion island, Indian Ocean: 21° 05' S., 55° 12' E., 170-225 m.
- Distribution: Amami Ōshima (south off Kikai island, 221 m.; east off Ōshima, 191-196 m.) and Yaeyama islands (northwest off Irabu island, 94 m.) (TSUCHIDA & IKEBE, 1998); Réunion, Kermadec islands (BIELER, 1993).
- Habitat: 94-402 m., sand and gravel.

□ Genus *Solatisonax* IREDALE, 1931

Type species: *Solatisonax injussa* IREDALE, 1931 (o. d.)

G4169 *S. radialis* (DALL, 1908)

Cha-iro-nawame-guruma

- Type locality: 'Albatross' sta. 3392, Gulf of Panama; 1270 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5, ECP4-ECP2, P2 (intertidal to 20 m., sand); Indo-Pacific (556-2324 m., sand and hard substrates BIELER, 1993) to Panama.

□ Genus *Helicacis* D'ORBIGNY in SAGRA, 1842

Type species: *Solarium herberti* DESHAYES, 1830 (mt.; = *Trochus cylindricus* GMELIN, 1791)

Subgenus *Helicacis s. str.*

G4170 *H. (H.) variegatus* (GMELIN, 1791)

(= *Trochus perspectivununculus* DILLWYN, 1817; *Solarium perspectiva* var. *depressa* PHILIPPI, 1853; *Torinia gyrus depressiuscula* BAYER, 1948)

Hiku-nawame-guruma

- Type locality: none designated.

- Distribution: Bōsō peninsula and southwards, P7-P5, Ogasawara islands (FUKUDA, 1994), EC5, ECP4-ECP2, P2; Philippines, East Africa to central Pacific (Hawaii, Polynesia).

- Habitat: intertidal to subtidal, among Zoanthinarians on rocks.

- Original genus: *Trochus*.

G4171 *H. (H.) areola* (GMELIN, 1791)

(= *Solarium tessellatum* DESHAYES, 1830; *S. variegatum* QUOY & GAIMARD, 1834; *S. perspectivununculus* var. *pallida* PHILIPPI, 1853; *Torinia gyrus* BAYER, 1948; *H. variegatus* auct. non GMELIN, 1791)

Koshitaka-nawame-guruma (= Koshitaka-gosho-guruma)

- Type locality: none designated.

- Distribution: Kii peninsula and southwards, P5, Ogasawara islands (FUKUDA, 1994), EC5, ECP4-ECP2, P2; Philippines, East Africa to central Pacific.

- Habitat: intertidal to subtidal, among Zoanthinarians on rocks.

- Original genus: *Trochus*.

G4172 *H. (H.) trochoides* (DESHAYES, 1830)

(= *Solarium dealbatum* HINDS, 1844; *Torinia conica* PEASE, 1865)

Komagata-nawame-guruma

- Type locality: none designated.

- Distribution: Ogasawara islands (FUKUDA, 1994), Amami islands and southwards, ECP3-ECP2, P2; Philippines, South Africa to central Pacific (Hawaii, Polynesia), western Australia.

- Habitat: intertidal to 20 m., sand and rocks.

- Original genus: *Solarium*.

Subgenus *Pyrgohelias* BIELER, 1987

Type species: *Helicacis (Pyrgohelias) turritus* BIELER, 1987 (o. d.)

G4173 *H. (P.) turritus* BIELER, 1987

Konpeitō-nawame-guruma

- Type locality: southwestern Indian Ocean (Banc du Geysier): 12° 22' S., 46° 23' 7" E., 5-20 m.

- Distribution: Okinawa (off Cape Zanpa, 46 m. BIELER, 1987); type locality.

- Habitat: subtidal to 58 m., sand and coral rubble.

Subgenus *Torinista* IREDALE, 1936

Type species: *Torinista popula* IREDALE, 1936 (o. d.; = *Solarium implexum* MIGHELS, 1845)

G4174 *H. (T.) implexus* (MIGHELS, 1845)

(= *Solarium dorsuosum* sensu HANLEY, 1863 non HINDS, 1844; *Torinia perspectivununculus* var. *sensu* E. A. SMITH, 1879; *S. (Torinia) homalaxis* MELVILL, 1893; *S. caelatum* sensu SOWERBY III, 1900 non HINDS, 1844; *S. (Torinia) omalaxis* IREDALE, 1911; *H. variegatus* sensu

SUTER, 1913 non GMELIN, 1791; *H. africanus* BARTSCH, 1915; *S. alfredensis* TURTON, 1932; *H. maorianus* POWELL, 1934; *Torinia popula* IREDALE, 1936; *H. depressiusculus* sensu HABE, 1961-a non BAYER, 1948; *H. codoceoeae* REHDER, 1980).

Kuri-iro-nawame-guruma

- Type locality: Oahu, Hawaii.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, east Africa to Easter islands, Australia, Red Sea.
- Habitat: intertidal to 20 m., among Zoanthinarians on rocks.
- Original genus: *Solarium*.

G4175 *H. (T.) enoshimensis* (MELVILL, 1893)

(= *Torinia densegranosa* PILSBRY, 1905)

Nawame-guruma-gai

- Type locality: 'Enoshima, Japonica' (Enoshima, Sagami bay, central Honshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5; eastern Australia and Norfolk island.
- Habitat: intertidal to 140 m., on Octocorals.
- Original genus: *Solarium* (*Torinia*).

G4176 *H. (T.) corallinus* GARRARD, 1977

Nise-nawame-guruma

- Type locality: Michaelmas Cay, Queensland, Australia.
- Distribution: Okinawa islands; southwestern Indian Ocean (South Africa and Madagascar), Australia, New Caledonia, Papua New Guinea.
- Habitat: intertidal to 21 m., sand and coral.

Subgenus *Grandeliacus* IREDALE, 1957

Type species: *Grandeliacus mortensenae* IREDALE, 1957 (o. d.; = *Trochus stramineus* GMELIN, 1791)

G4177 *H. (G.) stramineus* (GMELIN, 1791)

(= *Architectonica gothica* RÖDING, 1798; *Solarium* (*Torinia*) *stramineum* var. *junior* HANLEY, 1863; *Grandeliacus mortensenae* IREDALE, 1957)

Wara-iro-nawame-guruma

- Type locality: 'ad *Tranquebariae littora*' (Tranquebar coast, southern India).
- Distribution: Amami Ōshima and southwards, ECP4-ECP2, P2; Philippines, Indian Ocean to western Pacific.
- Habitat: subtidal to 130 m., sand.
- Original genus: *Trochus*.

Subgenus *Teretropoma* ROCHEBRUNE, 1881

Type species: *Teretropoma perrieri* ROCHEBRUNE, 1881 (mt.)

G4178 *H. (T.) infundibuliformis* (GMELIN, 1791)

(= *Solarium chemnitzii* KIENER, 1838; *S. (Torinia) cylindraceum* var. *vermetiformis* HANLEY, 1863; *S.*

*canaliferum* HANLEY, 1863; *S. infundibuliformis* var. *strigata* HANLEY, 1863; *H. crenellus* E. A. SMITH, 1910 nom. dub.; *Tornista (sic) granulata* HABE, 1962; *H. dilectus* sensu DRIVAS & JAY, 1985 non DESHAYES, 1863)

Hiramaki-nawame-guruma (= Toguro-nawame-guruma)

- Type locality: none designated.
- Distribution: Sagami bay and southwards, P6-P5, Ogasawara islands (FUKUDA, 1994), EC5, ECP4-ECP2, P2; Philippines, 'western Indian Ocean to central Pacific' (BIELER, 1993).
- Habitat: intertidal to upper sublittoral, on Zoanthinarians.
- Original genus: *Trochus*.

G4179 *H. (T.) mighelsi* (PHILIPPI, 1853-e)

(= *Solarium cyclostomum* MIGHELIS, 1845 non MENKE, 1830)

Maru-nawame-guruma (= Oafu-nawame-guruma)

- Type locality: 'Oahu' (Hawaii).
- Distribution: Okinawa islands; Taiwan, Hawaii, eastern Australia.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Torinia*.

**Notes:** type locality is probably Kauai, not Oahu; see JOHNSON (1949: 217).

G4180 *H. (T.) fenestratus* (HINDS, 1844-d)

Hiro-beso-nawame-guruma

- Type locality: 'New Guinea' ('dubious' BIELER, 1993).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, Australia, Polynesia.
- Habitat: subtidal and shallow water.
- Original genus: *Solarium*.

Subgenus *Gyriscus* TIBERI, 1867

Type species: *Gyriscus jeffreysianus* TIBERI, 1867 (mt.)

G4181 *H. (G.) asteleformis* (POWELL, 1965)

(= *G. hayashii* SHIKAMA, 1970)

Hayashi-guruma

- Type locality: 'between the Three Kings Islands and Cape Maria Van Diemen (New Zealand), 50 fathoms, in the cavity of a cup sponge'.
- Distribution: Tōkyō bay, Sagami bay, Enshū-nada to Mie prefecture, off Kii peninsula, western Japan Sea (Tsunoshima, Yamaguchi prefecture); New Zealand.
- Habitat: 20-120 m., sand; in sponges.
- Original genus: *Gyriscus*.

□ Genus *Pseudotorina* SACCO, 1892

Type species: *Solarium obtusum* BRONN, 1831 (o. d.) (= *Awarua* MESTAYER, 1930; *Calodisculus* REHDER, 1935; *Calodiscus* of auct., err. pro -sculus)

G4182 *P. amoena* (MURDOCH & SUTER, 1906)

( = *Torinia elegantula* YOKOYAMA, 1922)

Kadobari-nawame-guruma ( = Gosho-higuruma)

- Type locality: northwest off Cuvier island, New Zealand; 37 fms.
- Distribution: off Chōshi (Chiba prefecture, central Honshū), ECP4-ECP2, P2; Philippines, Indian Ocean (South Africa to Indonesia), Australia, New Zealand.
- Habitat: 20-285 m., mud, sand & coral rubble.
- Original genus: *Omalaxis*.

**Notes:** Shiro-kadobari-nawame-guruma *Solarium delectabilis* MELVILL, 1893 (Type locality: Bombay (Mumbai), India) is possibly present in Japan (BIELER, 1993: 308, fig. 257).

□ Genus *Pseudomalaxis* FISCHER, 1885

Type species: *Bifrontia zanclaea* PHILIPPI, 1844 (mt.) ( = *Discosolis* DALL, 1892; *Mangonua* MESTAYER, 1930)

G4183 *P. zanclaeus meridionalis* (HEDLEY, 1903)

( = *Mangonua bollonsi* MESTAYER, 1930; *P. solaris* KURODA, 1938-a)

Higuruma-gai

- Type locality: 'Port Stephens' (New South Wales, Australia).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, Sagami bay, Enshū-nada, Kumano-nada off Mie prefecture (50-200 m., coarse sand and stones); South China Sea, western Indian Ocean (South Africa), Australia (18-420 m., mud, sand and gravel), New Zealand.
- Original genus: *Omalaxis*.

□ Genus *Spirolaxis* MONTEROSATO, 1913

Type species: *Pseudomalaxis centrifuga* MONTEROSATO, 1890 (mt.) ( = *Paurodiscus* REHDER, 1935; *Aguaydiscus* JAUME & BORRO, 1946)

G4184 *S. cornuammonis* (MELVILL & STANDEN, 1903)

Uzumaki-guruma-gai

- Type locality: 'Gulf of Oman, lat. 24° 58' N., long. 56° 54' E., 156 fathoms'.
- Distribution: Amami islands (off Ankayba, Kakeroma island, 20 m. EKAWA, 1995); southwestern Pacific (New Caledonia, Norfolk island), Indian Ocean (Gulf of Oman, Réunion, South Africa) (BIELER, 1993)
- Habitat: 20-340 m., mud.
- Original genus: *Homalaxis*.

G4185 *S. rotulacatharinae* (MELVILL & STANDEN, 1903)

( = *Pseudomalaxis (Pseudomalaxis) thetidis* GARRARD, 1977; *P. (P.) roddai* LADD, 1982; *Spirolaxis* sp. *sensu* K.

ITŌ, 1990)

Shikaku-uzumaki-guruma

- Type locality: 'Gulf of Oman, lat. 24° 58' N., long. 56° 54' E., 156 fathoms'.
- Distribution: Japan Sea (Wakasa bay, 126-139 m. K. ITŌ, 1990); Indian Ocean (South Africa to Indonesia), Australia, western and central Pacific to Hawaii.
- Habitat: 27-622 m., mud and sand.
- Original genus: *Homalaxis*.

G4186 *S. exornatus* BIELER, 1993

Naruto-uzumaki-guruma

- Type locality: 'Marion-Dufresne' sta. DC128, Réunion island, Indian Ocean: 20° 51' S., 55° 36' E., 280-340 m.
- Distribution: Amami Ōshima (East off Sumiyo, 310 m. TSUCHIDA & IKEBE, 1998); Réunion, New Caledonia.
- Habitat: 280-430 m., sand and gravel.

Superfamily **RISSELLOIDEA GRAY, 1850**

Family **RISSELLOIDAE GRAY, 1850**

□ Genus *Rissoella* GRAY, 1847

Type species: *Rissoa diaphana* ALDER, 1848 (see ROBERTSON, 1961: Nautilus, vol. 75 (1): 22.)

G4187 *R. bifasciata* (CARPENTER, 1857-a)

Hime-ko-tsubu

- Type locality: 'Mazatlan; rare on ?Algae' (western Mexico).
- Distribution: western Nagasaki prefecture (KUBOTA, 1962); western America (Cape San Lucas to Mazatlan KEEN, 1971).
- Original genus: *Jeffreysia*.

G4188 *R. hydrophana* A. ADAMS, 1860-h

- Type locality: 'Tabu-Sima' (Tobishima, Yamagata prefecture, Japan Sea); 25 fms.
- Distribution: 'Japan Sea side, 39° N.' (KURODA & HABA, 1952-a).

G4189 *R. omphalotropis* A. ADAMS, 1860-h

- Type locality: 'Sado' (Sado island, Japan Sea); 30 fms.
- Distribution: recorded only from type locality.

G4190 *R. spiralis* A. ADAMS, 1860-h

- Type locality: 'Sado' (Sado island, Japan Sea); 30 fms.
- Distribution: recorded only from type locality.

G4191 *R. turgidula* A. ADAMS, 1860-h

- Type locality: Korea strait, 46 fms.
- Distribution: recorded only from type locality.

G4192 *R. vesicalis* A. ADAMS, 1860-h

- Type locality: 'Sado' (Sado island, Japan Sea); 30 fms.
- Distribution: recorded only from type locality.

G4193 *R. vitrina* A. ADAMS, 1860-h

- Type locality: 'Tabu-Sima' (Tobishima, Japan Sea); 25 fms.

- Distribution: recorded only from type locality.

G4194 *R. elephantina* GOLIKOV & GULBIN, 1978

- Type locality: off Urup, Kuril islands; 20 m., stones (R. V. 'Krylatka').
- Distribution: Kuril islands.

G4194-a *R. dubia* GOLIKOV & GULBIN, 1978

- Type locality: off Iturup, Kuril islands; 22-27 m.
- Distribution: Kuril islands.

Superfamily OMALOGYROIDEA G. O. SARS, 1878

Family OMALOGYRIDAE G. O. SARS, 1878

□ Genus *Ammonicera* VAYSSIÉRE, 1893

Type species: *Homalogyra fischeriana* MONTEROSATO, 1869 (= *Turbo tricarinata* MÜHLFELD, 1816)

G4195 *A. japonica* HABE, 1972-a

Mijin-wadachi-gai

- Type locality: 'Yashima, Kaminoseki' (western Seto inland sea off Yamaguchi prefecture); sand beach.
- Distribution: western Seto inland sea (Mukushima, Hofu; Ayagari, Shimonoseki; Mishima, Hagi), southern Shikoku (Komuro-no-hama beach, Kubokawa district), Ogasawara islands (FUKUDA, 1994).
- Habitat: intertidal.

Superfamily PYRAMIDELLOIDEA GRAY, 1840

Family PYRAMIDELLIDAE GRAY, 1840

(Refs.: Nomura, 1939-b; 1940-b; Kuroda & Habe, 1949-a; Hori & Tsuchida, 1989)

□ Genus *Pyramidella* LAMARCK, 1799

Type species: *Trochus dolabratus* LINNAEUS, 1758 (ICZN op. 386)

(= *Pyramidellus* MONTFORT, 1810; *Obeliscus* GRAY, 1847 non BECK, 1837)

G4196 *P. dolabrata dolabrata* (LINNAEUS, 1758)

(= *Obeliscus terebelloides* A. ADAMS in H. & A. ADAMS, 1853-58)

Tōgata-gai (= Tōgata-kuchikire)

- Type locality: none given in 1758; 'in Africa; terrestris' in LINNAEUS, 1767 (erroneous).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-western Pacific, Hawaii.
- Habitat: intertidal to 20 m., sandy mud.
- Original genus: *Trochus*.

G4197 *P. dolabrata terebellum* (MÜLLER, 1774)

Date-tōgata-gai

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Helix*.

□ Genus *Longchaeus* MÖRCH, 1875

Type species: '*Pyramidella punctata* Chemnitz' (s. d. DALL & BARTSCH, 1904; = *Pyramidella punctata* SCHUBERT & WAGNER, 1829; = *Voluta acus* GMELIN, 1791)

G4198 *L. acus* (GMELIN, 1791)

(= *Voluta guttata* LINK, 1807; *Pyramidella musculosa* LAMARCK, 1816; *P. maculosa* LAMARCK, 1822 in 1815-22; *P. punctata* SCHUBERT & WAGNER, 1829) Takenoko-kuchikire

- Type locality: none designated.
- Distribution: Mie prefecture (MATSUMOTO, 1979) and southwards, P6-P5, northern Kyūshū (Fukuma district UOZUMI, 1998), EC5, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Voluta*.

G4199 *L. sulcatus sulcatus* (A. ADAMS in H. & A. ADAMS, 1853-58)

Ō-kuchikire

- Type locality: Tahiti, in coral sand.
- Distribution: Kyūshū (Fukuma-cho, Fukuoka prefecture UOZUMI, 1998), Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-western Pacific, Hawaii.
- Habitat: intertidal-100 m., sand.
- Original genus: *Obeliscus*.

G4200 *L. sulcatus tessellatus* (A. ADAMS in H. & A. ADAMS, 1853-58)

(= *P. maculosa sensu* SPRINGSTEEN & LEOBRERA, 1986)

Goban-kuchikire

- Type locality: Masbate island, Philippines; 7 fms., sandy mud.
- Distribution: Kii peninsula and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Indo-western Pacific.
- Habitat: intertidal to 10 m., sandy mud.

G4201 *L. sulcatus pratii* (BERNARDI, 1859-a)

(= *Wingenella eburnea* LASERON, 1959)

Madara-kuchikire

- Type locality: none designated.
- Distribution: Miyako island (Okinawa prefecture) and southwards, P2; Philippines, Indo-western Pacific.
- Habitat: intertidal to 10 m., sand.
- Original genus: *Pyramidella*.

G4202 *L. sulcatus teres* (A. ADAMS in H. & A. ADAMS, 1853-58)

(= *Wingenella pricena* LASERON, 1959)

Kazumaki-kuchikire

- Type locality: Panay island, Philippines; on the shore.
- Distribution: Bōsō peninsula and southwards, P7-P5,

EC5, ECP4-ECP2, P2; Philippines, Indo-western Pacific.

- Habitat: intertidal to 10 m., sand.
- Original genus: *Obeliscus*.

G4203 *L. canaliculatus* (SOWERBY II, 1873)

Maki-mizo-kuchikire

- Type locality: Hawaii.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, tropical Pacific.
- Habitat: intertidal to 10 m., sand.
- Original genus: *Pyramidella*.

□ Genus *Milda* DALL & BARTSCH, 1904

Type species: '*Obeliscus ventricosus* QUOY' (o. d.; = *Pyramidella ventricosa* GUÉRIN, 1831)

G4204 *M. ventricosa* GUÉRIN, 1831

(= *Obeliscus scitulus* A. ADAMS in H. & A. ADAMS, 1853-58)

Ō-shii-no-mi-kuchikire

- Type locality: 'l'île de Vanikoro' (Solomon islands).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, western to central Pacific.
- Habitat: intertidal to 10 m., sand.

G4205 *M. ogasawarazimana* (NOMURA, 1939-b)

- Type locality: Chichijima, Ogasawara islands.
- Distribution: recorded only from type locality.
- Original genus: *Pyramidella*.

□ Genus *Cossmannica* DALL & BARTSCH, 1904

Type species: *Pyramidella clandestina* DESHAYES, 1861 (o. d.)

(= *Diptychus* COSSMANN, 1888 non MILNE-EDWARDS, 1880)

G4206 *C. aciculata* (A. ADAMS in H. & A. ADAMS, 1853-58)

Kukuri-kuchikire

- Type locality: Cagayan, Misamis province, Philippines; 25 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4; Philippines.
- Habitat: intertidal to 30 m., sand.
- Original genus: *Obeliscus*.

□ Genus *Otopleura* FISCHER, 1885

Type species: '*Voluta auriscati* CHEMNITZ' (mt.; = *Voluta auriscati* HOLTEN, 1802)

(= *Pyramidella* H. & A. ADAMS, 1853 in 1853-58 non LAMARCK, 1799)

G4207 *O. auriscati* (HOLTEN, 1802)

(= *Pyramidella plicata* LAMARCK, 1816)

Neko-no-mimi-kuchikire

- Type locality: none designated.

• Distribution: Amami Ōshima and southwards, ECP3-ECP2, P2; Philippines to Micronesia, Australia.

- Habitat: intertidal to 20 m., sand.
- Original genus: *Voluta*.

G4208 *O. nodicincta* (A. ADAMS in H. & A. ADAMS, 1853-58)

Ikari-gata-kuchikire

- Type locality: none designated.
- Distribution: southern Okinawa islands and southwards, ECP2, P2; Philippines, western Pacific to Fiji.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Pyramidella*.

G4209 *O. glans* (REEVE, 1843-d)

Susoguro-kuchikire

- Type locality: none designated.
- Distribution: Tosa bay and southwards, P5, ECP4-ECP2, P2; Philippines, southwestern Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Pyramidella*.

G4210 *O. nitida* (A. ADAMS in H. & A. ADAMS, 1853-58)

Tsuya-shii-no-mi-kuchikire

- Type locality: 'Philippines'.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., sand.

G4211 *O. mitralis* (A. ADAMS, 1854 in H. & A. ADAMS, 1853-58)

(= *Pyramidella propinqua* A. ADAMS in H. & A. ADAMS, 1853-58; *P. variegata* A. ADAMS in H. & A. ADAMS, 1853-58; *P. australis* LASERON, 1959)

Shii-no-mi-kuchikire

- Type locality: St. Estevan, Luzon, Philippines; low water, sand.
- Distribution: Kii peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Pyramidella*.

□ Genus *Costabieta* LASERON, 1956-a

Type species: *Costabieta paucina* LASERON, 1956 (o. d.; = *Rissoina horrida* GARRETT, 1873)

G4212 *C. horrida* (GARRETT, 1873)

(= *C. paucina* LASERON, 1956-a)

Gorin-kuchikire

- Type locality: Fiji.
- Distribution: Ogasawara islands (FUKUDA, 1995), Amami islands and southwards, ECP3-ECP2, P2; Philippines, Fiji.
- Habitat: intertidal, coarse sand and stones.
- Original genus: *Rissoina* (*Phosinella*).

□ Genus *Herewardia* IREDALE, 1955

Type species: *Rissoina kesteveni* HEDLEY, 1907 (o. d.)

G4213 *H. kesteveni* (HEDLEY, 1907)

Konpeitō-chōji-gai

- Type locality: Queensland, Australia.
- Distribution: Amami islands (Tsuchihama HABE, 1981-b; Ankyaba, Kakeroma island EKAWA, 1993-a); Australia.
- Habitat: intertidal, coarse sand and stones.
- Original genus: *Rissoina*.

□ Genus *Tiberia* MONTEROSATO, 1875

Type species: *Pyramidella minuscula* MONTEROSATO, 1874 (o. d.)

(= *Tiberida sensu* COSSMANN, 1900 *err. pro -ia*)

G4214 *T. balteatus* A. ADAMS in H. & A. ADAMS, 1853 in 1853-58

- Type locality: Mindanao, Philippines
- Distribution: 'Pacific coast, 33°-35° N.' (KURODA & HABE, 1952-a)
- Original genus: *Obeliscus*.

G4215 *T. hyalina* (DUNKER, 1860)

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: 'Pacific coast, 33°-35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Obeliscus* (*Pyramidella*).

G4216 *T. trifasciata* (A. ADAMS, 1863-c)

Misuji-kuchikire

- Type locality: 'Uraga' (Uraga, eastern Miura peninsula, mouth of Tōkyō bay) and 'Mososeki' (Moji, Fukuoka prefecture, western Seto inland sea).
- Distribution: 'Pacific coast, 34°-35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Obeliscus*.

G4217 *T. pusilla* (A. ADAMS in H. & A. ADAMS, 1853-58)

Kuchihida-kuchikire

- Type locality: Catanuan, Luzon, Philippines; 10 fms., sandy mud.
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2; Philippines.
- Habitat: intertidal to 30 m., sandy mud.
- Original genus: *Obeliscus*.

G4218 *T. nitidula* (A. ADAMS, 1860-h)

Tsuya-kuchikire

- Type locality: Mishima, Japan Sea; 63 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Mishima, J1), EC5.
- Habitat: intertidal to 20 m., sandy mud.

- Original genus: *Obeliscus*.

□ Genus *Orinella* DALL & BARTSCH, 1906

Type species: *Orina pinguicula* A. ADAMS, 1870 (= *Orina* A. ADAMS, 1870 *non* AGASSIZ, 1846)

G4219 *O. japonica* (DALL & BARTSCH, 1906)

- Type locality: 'Japan' (specimen in Berlin Museum).
- Distribution: 'Pacific coast (?)' (KURODA & HABE, 1952-a).
- Original genus: *Pyramidella* (*Tiberia*).

G4220 *O. ebarana* (YOKOYAMA, 1927)

Ebara-kuchikire

- Type locality: Ebara, Shinagawa-ku, Tōkyō City (fossil).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Seto inland sea, Japan Sea (J1), northwestern Kyūshū, EC5.
- Habitat: 10-50 m., sandy mud.
- Original genus: *Pyramidella* (*Tiberia*).

G4221 *O. pulchella* (A. ADAMS in H. & A. ADAMS, 1853-58)

Kuchikire-gai

- Type locality: 'Japan'.
- Distribution: Mutsu bay (Aomori prefecture) and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5, southern Kyūshū.
- Habitat: subtidal to 30 m., fine sand.
- Original genus: *Obeliscus*.

G4222 *O. dunkeri* (DALL & BARTSCH, 1906)

(= *Odostomia fasciata* DUNKER, 1860 *non* CARPENTER, 1856)

Dunkeru-kuchikire (= Obi-kuchikire)

- Type locality: Dejima, Nagasaki City, western Kyūshū.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Seto inland sea, Japan Sea (Noto peninsula, J2-J1), EC5.
- Habitat: intertidal to 50 m., sandy mud in bays.
- Original genus: *Pyramidella* (*Tiberia*).

G4223 *O. eburnea* (A. ADAMS, 1863-a)

- Type locality: 'O-sima' (Kii-Ōshima, Wakayama prefecture, central Honshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5.
- Habitat: intertidal to 30 m., sand.
- Original genus: *Obeliscus*.

□ Genus *Puposyrnola* COSSMANN, 1921

(= *Hoosyrnola* NOMURA, 1938-a)

Type species: *Auricula acicula* LAMARCK, 1804 (o. d.)

G4224 *P. inturbida* (YOKOYAMA, 1927)

Uchimaki-kuchikire

- Type locality: Ōji, Kita-ku, Tōkyō City (fossil).

- Distribution: Bōsō peninsula and southwards, P7-P5.
- Habitat: intertidal to 20 m., sand.
- Original genus: '*Pyramidella* (*Syrnola*?)'

□ Genus *Eulimella* FORBES & MACANDREW, 1846

Type species: *Eulima macandrei* FORBES, 1844 (o. d.; = *Melania scillae* SCACCHI, 1835)

G4225 *E. diaphana* A. ADAMS, 1861-a

Erimaki-setomono-kuchikire

- Type locality: 'Port Hamilton' (Kyobunto island, near Gehaku lighthouse, southern Korea), 7 fms.
- Distribution: western Japan Sea (off Mishima and Tsunoshima islands TSUCHIDA & HORI, 1996), 'Pacific coast, 34° N.' (KURODA & HABE, 1952-a); type locality.

G4226 *E. sibogae* SCHEPMAN, 1909 in 1908-13

- Type locality: 'Siboga' sta. 52: 09° 3.4' S., 119° 56.7' E., 'Savu Sea. 959 m. Globigerine ooze.' (Between Flores and Sumba islands, Indonesia).
- Distribution: Sagami bay (1005-1020 m. OKUTANI, 1966); Indonesia.

G4227 *E. hinomotoensis* NOMURA, 1938-a

- Type locality: Kamakura, Kanagawa prefecture (eastern Sagami bay).
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

G4228 *E. opaca* A. ADAMS, 1861-a

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: 'Japan Sea, 35° N.' (KURODA & HABE, 1952-a), northeastern Honshū (Ōtsuchi bay, off Naminosuke-jima, Iwate prefecture; 52-55 m. TSUCHIDA & HORI, 1992).

G4229 *E. opalina* A. ADAMS, 1861-a

- Type locality: Tsushima, western Japan Sea; 26 fms.
- Distribution: 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a).

G4230 *E. pellucens* A. ADAMS, 1861-a

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).

G4231 *E. vitrea* A. ADAMS, 1861-a

- Type locality: Tsushima, western Japan Sea; 46 fms.
- Distribution: 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a).

G4232 *E. marmorea* HORI & TSUCHIDA, 1996-a

Dairiseki-kuchikire-gai

- Type locality: south off Cape Daiō, Shima peninsula, central Honshū: 34° 05.09' N., 136° 40.08' E. to 34° 05.09' N., 136° 38.07' E., 424-425 m.
- Distribution: recorded only from type locality.

□ Genus *Bacteridium* THIELE, 1929

Type species: *Eulimella praeclara* THIELE, 1925 (mt.)

G4233 *B. vittatum* (A. ADAMS, 1861-c)

Itokake-gōna

- Type locality: Hulu-shan bay, northern China; 3 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5; China.
- Habitat: 5-20 m., sandy mud in bays.
- Original genus: *Monoptygma*.

□ Genus *Odostomia* FLEMING, 1813

Type species: *Turbo plicata* MONTAGU, 1803 (s. d. GRAY, 1847)

G4234 *O. desimana* DALL & BARTSCH, 1906

(= *O. lactea* DUNKER, 1860 non LINNAEUS, 1758)

Kuchikire-modoki

- Type locality: Dejima, Nagasaki City, western Kyūshū.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Seto inland sea, Japan Sea (Oshoro bay, western Hokkaidō HORI & IIZUMI, 1997, J6-J1), western Kyūshū (Ariake inland sea, EC5).
- Habitat: intertidal to 110 m., sandy mud.

G4235 *O. castanea* HABE, 1961-a

Kuri-iro-kuchikire-modoki

- Type locality: Tomioka bay, Amakusa, southwestern Kyūshū; sandy shore.
- Distribution: Tosa bay (southern Shikoku), western Kyūshū.
- Habitat: intertidal, sand.

G4236 *O. bullata* NOMURA, 1937

Shiogama bay, Miyagi prefecture, northeastern Honshū.

- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

G4237 *O. bullula* GOULD, 1861 in 1859-61

Garasudama-kuchikire-modoki

- Type locality: 'Loo Choo' (Okinawa).
- Distribution: Ogasawara islands (FUKUDA, 1995), 'Pacific coast at 26° N.' (KURODA & HABE, 1952-a), Okinawa (KURODA, 1960).

G4238 *O. scalarina* GOULD, 1861 in 1859-61

'Loo Choo' (Okinawa).

- Distribution: 'Pacific coast at 26° N.' (KURODA & HABE, 1952-a), Okinawa (KURODA, 1960).

G4239 *O. soluta* GOULD, 1861 in 1859-61

'Loo Choo' (Okinawa).

- Distribution: 'Pacific coast at 26° N.' (KURODA & HABE, 1952-a), Okinawa (KURODA, 1960).

G4240 *O. ayukawaensis* NOMURA, 1938

- Type locality: Ayukawa village, Oshika district, Miyagi

prefecture, northeastern Honshū.

- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

G4241 *O. mauritiana* DALL & BARTSCH, 1906

Ensui-kuchikire-modoki

- Type locality: Mauritius.
- Distribution: Ogasawara islands (FUKUDA, 1995)

G4242 *O. oblongella* CORGAN, 1970

(= *O. oblonga* A. ADAMS, 1860 non *O. (Chrysallida) oblonga* CARPENTER, 1857-a)

- Type locality: off Mishima, Japan Sea; 63 fms.
- Distribution: recorded only from type locality.

G4243 *O. producta* A. ADAMS, 1860-i

- Type locality: 'Sado' (Sado island, Japan Sea); 30 fms. and 'Tabu-Sima' (Tobishima, Japan Sea); 25 fms.
- Distribution: 'Japan Sea coast, 38°-39° N.' (KURODA & HABE, 1952-a).

G4244 *O. cana* A. ADAMS, 1860-i

- Type locality: Korea strait; 46 fms.
- Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).

G4245 *O. elata* A. ADAMS, 1860-a

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).

G4246 *O. goniostoma* A. ADAMS, 1860-i

- Type locality: Korea strait; 46 fms.
- Distribution: western Seto inland sea (TSUCHIDA, HORI & MITOKI, 1991), 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).

G4247 *O. hirotamurana* NOMURA, 1938

Remon-kuchikire-modoki

- Type locality: Hanagai, Hirota village, Kesen district, Iwate prefecture, northeastern Honshū.
- Distribution: western Japan Sea (northern Yamaguchi prefecture HORI, 1998), 'Pacific coast, 39°-40° N.' (KURODA & HABE, 1952-a).
- Habitat: exoparasitic on *Pomatoleios kraussi*.

G4248 *O. hyalina* A. ADAMS, 1860-a

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).

G4249 *O. hyalinella* KURODA & HABE, 1952-a

- (= *O. hyalina* A. ADAMS, 1861 non A. ADAMS, 1860)
- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
  - Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).

G4250 *O. nana* A. ADAMS, 1860-a

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).

G4251 *O. nivea* A. ADAMS, 1860-i

- Type locality: Korea strait; 46 fms.
- Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).

G4252 *O. obesula* A. ADAMS, 1860-a

- Type locality: Korea strait; 63 fms.
- Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).

G4253 *O. oyasiwo* NOMURA, 1939-b

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: Miyagi prefecture (Miyako bay; Shiogama bay; off Kinkazan island, 52 fms).

G4254 *O. pupa* A. ADAMS, 1860-a

- Type locality: Korea strait; 63 fms.
- Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).

G4255 *O. pygmaea* A. ADAMS, 1860-a

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).

G4256 *O. scalina* A. ADAMS, 1860-a

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).

G4257 *O. ventricosa* A. ADAMS, 1860-a

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).

G4258 *O. vitrea* A. ADAMS, 1860-i

- Type locality: Korea strait; 46 fms.
- Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).

G4259 *O. achatinella* A. ADAMS, 1860-i

- Type locality: Tsushima, western Japan Sea; 26 fms.
- Distribution: 'Japan Sea coast at 34° N.' (KURODA & HABE, 1952-a).

G4260 *O. aomori* NOMURA, 1938

- Type locality: Asamushi, Mutsu bay, Aomori prefecture, northern Honshū.
- Distribution: 'Pacific coast at 41° N.' (KURODA & HABE, 1952-a).

G4261 *O. aspera* NOMURA, 1938

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.



- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- G4262 *O. bentenzimana* **NOMURA, 1937**
- Type locality: Bentenjima island, Shiogama bay, Miyagi prefecture, northeastern Honshū.
  - Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- G4263 *O. cionelloides* **CLESSIN, 1902 in 1899-1902**
- Type locality: 'Japan (Yeddobay)' (Tōkyō bay).
  - Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
- G4264 *O. crassicallosa* **NOMURA, 1937**
- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
  - Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- G4265 *O. crassiplicata* **NOMURA, 1936**
- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
  - Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- G4266 *O. culta* **DALL & BARTSCH, 1906**  
Habutae-kuchikire-modoki
- Type locality: 'Hakodate (Hokkaidō), Japan' (specimen in Berlin Museum).
  - Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5.
  - Habitat: intertidal, sandy mud.
- G4267 *O. curta* **CLESSIN, 1902 in 1899-1902**
- Type locality: 'Japan'.
  - Distribution: 'Pacific side?' (KURODA & HABE, 1952-a).
- G4268 *O. daruma* **NOMURA, 1938**
- Type locality: Kamakura, eastern Sagami bay, central Honshū.
  - Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
- G4269 *O. dilecta* **NOMURA, 1937**
- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
  - Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- G4270 *O. dusiensis* **NOMURA, 1937**
- Type locality: Zushi, eastern Sagami bay, central Honshū.
  - Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
- G4271 *O. enosimensis* **NOMURA, 1938**
- Type locality: Enoshima, Sagami bay, central Honshū.
  - Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
- G4272 *O. eronea* **NOMURA, 1937**
- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
  - Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- G4273 *O. exiguita* **NOMURA, 1937**
- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
  - Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- G4274 *O. fujitanii* **YOKOYAMA, 1927**  
Fujitani-kuchikire-modoki
- Type locality: Ōji, Kita-ku, Tōkyō City (fossil).
  - Distribution: Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; Sado island), Kuril islands; Primoriye region (Posyet Bay, near Vladivostok).
  - Habitat: intertidal to 16 m., sand.
- G4275 *O. glabra* **CLESSIN, 1902 in 1899-1902**
- Type locality: 'Nagasaki, Japan' (western Kyūshū).
  - Distribution: 'Pacific coast at 33° N.' (KURODA & HABE, 1952-a).
- Notes:** described from a specimen in the Hilgendorf collection.
- G4276 *O. harukoe* **NOMURA, 1938**
- Type locality: Kamakura, eastern Sagami bay, central Honshū.
  - Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- G4277 *O. kanagawaensis* **NOMURA, 1937**
- Type locality: Zushi, eastern Sagami bay, central Honshū.
  - Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
- G4278 *O. kotorana* **NOMURA, 1937**
- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
  - Distribution: western Seto inland sea (TSUCHIDA, HORI & MITOKI, 1991), 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- G4279 *O. kraussei* **CLESSIN, 1902 in 1899-1902**
- Type locality: 'Japan'.
  - Distribution: 'Pacific side, 38°?-58° N.' (KURODA & HABE, 1952-a).
- G4280 *O. limpida* **DALL & BARTSCH, 1906**  
Suki-kuchikire-modoki
- Type locality: 'Japan' (specimen in Berlin Museum).
  - Distribution: northeastern Honshū (Ōtsuchi bay, Iwate

prefecture), western Seto inland sea (TSUCHIDA, HORI & MITOKI, 1991).

**G4281 *O. mabutii* NOMURA, 1938**

- Type locality: Tako-no-ura, Akasaki village, Iwate prefecture, northeastern Honshū.
- Distribution: 'Pacific coast, 35°-39° N.' (KURODA & HABE, 1952-a).

**G4282 *O. matsusimana* NOMURA, 1936**

- Type locality: Matsushima, Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

**G4283 *O. minutivum* NOMURA, 1936**

- Kasane-yadori-kuchikire-modoki
- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
  - Distribution: northeastern Honshū (Shiga village, Miyagi prefecture), Japan Sea (Ishikawa prefecture); 'Pacific coast, 35°-38° N.' (KURODA & HABE, 1952-a).

**G4284 *O. miyagiana* NOMURA, 1936**

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

**G4285 *O. omaensis* NOMURA, 1938**

- Sazae-kuchikire-modoki (= Awaji-kuchikire-modoki)
- Type locality: Ōma town, Shimo-Kita district, Aomori prefecture, northern Honshū.
  - Distribution: northeastern Honshū (Iwate prefecture) (off Miyako) and southwards, P9-P5, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5.
  - Habitat: subtidal to 100 m., ectoparasitic around aperture of *Turbo* (*Batillus*) *cornutus* (no. G225) and on *Nordotis discus* (G67) and *N. madaka* (G65)

**G4286 *O. natukoeae* NOMURA, 1938**

- Type locality: Kamakura, eastern Sagami bay, central Honshū.
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

**G4287 *O. neglecta* A. ADAMS, 1860-i**

- Type locality: 'Tabu-sima' (Tobishima, Japan Sea); 25 fms.
- Distribution: 'Japan Sea coast at 39° N.' (KURODA & HABE, 1952-a).

**G4288 *O. optata* YOKOYAMA, 1920**

- Negai-kuchikire-modoki
- Type locality: Ōji, Kita-ku, Tōkyō City (fossil).
  - Distribution: northeastern Honshū (northern Iwate prefecture).

- Habitat: intertidal to 20 m., sand.

**G4289 *O. ovoidea* A. ADAMS, 1860-i**

- Type locality: 'Awa-Sima, low water' (Awashima, off western Niigata prefecture, Japan Sea).
- Distribution: 'Japan Sea coast at 38° N.' (KURODA & HABE, 1952-a).

**G4290 *O. pallidior* NOMURA, 1937**

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

**G4291 *O. perplexissima* NOMURA, 1937**

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

**G4292 *O. pruinosa* A. ADAMS, 1860**

- Type locality: 'Okō-Siri' (Okushiri island, Hokkaidō); 35 fms.
- Distribution: 'Japan Sea coast at 42° N.' (KURODA & HABE, 1952-a).

**G4293 *O. sanetomoi* NOMURA, 1938**

- Type locality: Kamakura, eastern Sagami bay, central Honshū.
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

**G4294 *O. setoutiensis* NOMURA, 1939-b**

- Type locality: 'Iyo', (western Seto inland sea off Ehime prefecture, Shikoku).
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a); type locality.

**G4295 *O. shimosensis* YOKOYAMA, 1922**

- Type locality: Ōtake village, Inba district, Chiba prefecture, central Honshū (fossil).
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

**G4296 *O. siogamensis* NOMURA, 1936**

- Kuriimu-kuchikire-modoki
- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
  - Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a), Japan Sea (Mishima); Seto inland sea (off Tokuyama City, Yamaguchi prefecture).

**G4297 *O. sitiroi* NOMURA, 1937**

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

G4298 *O. subdiaphana* A. ADAMS, 1860-i

- Type locality: 'Okosiri' (Okushiri island, southwestern Hokkaidō); 35 fms.
- Distribution: northeastern Honshū (Iwate prefecture; Miyako bay; off Kesen-numa) and northwards, southern Hokkaidō.

G4299 *O. suboxia* YOKOYAMA, 1920

- Suzume-kuchikire-modoki
- Type locality: Ōtake village, Inba district, Chiba prefecture, central Honshū (fossil).
  - Distribution: Japan Sea (Sado island).

G4300 *O. sublimpida* YOKOYAMA, 1920

- Type locality: Ōkine, Yokosuka City, near Tōkyō (fossil).
- Distribution: Bōsō peninsula and northwards, P8-P9, Aomori prefecture.
- Habitat: intertidal to 20 m., sand.

G4301 *O. suboxioides* NOMURA, 1936

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

G4302 *O. suezakiensis* NOMURA, 1936

- Type locality: Tomari, Suezaki village, Iwate prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

G4303 *O. tanegasimana* NOMURA, 1939-b

- Type locality: Tanegashima island (off southern Kyūshū).
- Distribution: 'Pacific coast at 31° N.' (KURODA & HABE, 1952-a).

G4304 *O. tenerissima* NOMURA, 1937

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: western Seto inland sea (TSUCHIDA, HORI & MITOKI, 1991), 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

G4305 *O. tritestata* NOMURA, 1937

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

G4306 *O. turukoae* NOMURA, 1938

- Type locality: Kamakura, eastern Sagami bay, central Honshū.
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

G4307 *O. yokoyamai* NOMURA, 1936

- Type locality: Miyako bay, Iwate prefecture, northeastern Honshū.

- Distribution: 'Pacific coast, 35°-41° N., Japan Sea coast at 41° N.' (KURODA & HABE, 1952-a).

G4308 *O. yuigahamana* NOMURA, 1938

- Type locality: Yuiga-hama (beach), eastern Sagami bay (Kanagawa prefecture, central Honshū).
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

G4309 *O. zamia* NOMURA, 1937

- Type locality: Zushi, eastern Sagami bay, central Honshū.
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

G4310 *O. profundiperforata* NOMURA, 1937

- Heso-aki-kuchikire-modoki
- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
  - Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

□ Genus *Brachystomia* MONTEROSATO, 1884

Type species: *Odostomia rissoides* HANLEY, 1844 (s. d. CROSSE, 1885)

G4311 *B. bipyramidata* (NOMURA, 1936)

- Kakiura-kuchikire-modoki
- Type locality: Ayukawa village, Oshika district, Miyagi prefecture, northeastern Honshū.
  - Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a), Seto inland sea (Tamashima village, Okayama prefecture).
  - Habitat: intertidal to 20 m., sandy mud; ectoparasitic on *Crassostrea gigas* (no. B405).
  - Original genus: *Odostomia*.

□ Genus *Megastomia* MONTEROSATO, 1884

Type species: *Odostomia conspicua* ALDER, 1850 (mt.) (= *Stomega* DALL & BARTSCH, 1906)

G4312 *M. kuroshiwo* (NOMURA, 1939)

- Type locality: Susaki, Chichijima, Ogasawara islands.
- Distribution: known only from type locality.
- Original genus: *Odostomia*.

G4313 *M. sagamiana* (NOMURA, 1937)

- Sagami-kuchikire-modoki
- Type locality: Sagami bay, central Honshū.
  - Distribution: western Seto inland sea (TSUCHIDA, HORI & MITOKI, 1991), 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
  - Original genus: *Odostomia*.

G4314 *M. clara* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

- Original genus: *Odostomia*.

G4315 *M. gordonis* (YOKOYAMA, 1922)

Gorudon-kuchikire-modoki

- Type locality: Ōtake, Inba district, Chiba prefecture, central Honshū (fossil).
- Distribution: Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967), 'Pacific side?' (KURODA & HABE, 1952-a).
- Original genus: *Odostomia*.

G4316 *M. interolineata* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Odostomia*.

G4317 *M. jacundior* (NOMURA, 1937)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Odostomia*.

G4318 *M. kamakurana* (NOMURA, 1938)

- Type locality: Kamakura, eastern Sagami bay, central Honshū.
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Odostomia*.

G4319 *M. makiyamai* (NOMURA, 1937)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Odostomia*.

G4320 *M. miuraensis* (NOMURA, 1937)

- Type locality: Miura, eastern Sagami bay, central Honshū.
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Odostomia*.

G4321 *M. neoexigua* (NOMURA, 1937)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast, 35°-38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Odostomia*.

G4322 *M. sitirigahamana* (NOMURA, 1938)

- Type locality: Shichiriga-hama (beach), Kamakura, eastern Sagami bay, central Honshū.
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

- Original genus: *Odostomia*.

G4323 *M. vero* (NOMURA, 1937)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Odostomia*.

G4324 *M. yabehisakatsui* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Odostomia*.

G4325 *M. yukikoe* (NOMURA, 1938)

- Type locality: Kamakura, eastern Sagami bay, central Honshū.
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Odostomia*.

□ Genus *Evalea* A. ADAMS, 1860

Type species: *Odostomia (Evalea) elegans* A. ADAMS, 1860 (s. d. VERRILL & BUSH, 1900)

G4326 *E. elegans* (A. ADAMS, 1860-a)

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Odostomia (Evalea)*.

G4327 *E. sulcata* (A. ADAMS, 1860-I)

- Type locality: Tsushima, western Japan Sea; 16 fms.
- Distribution: 'Pacific coast at 34° N., Japan Sea coast at 39° N.' (KURODA & HABE, 1952-a).
- Original genus: *Odostomia (Evalea)*.

G4328 *E. arcuata* (A. ADAMS, 1860-a)

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Odostomia (Evalea)*.

G4329 *E. grayi* (A. ADAMS, 1860-c)

- Type locality: Korea strait; 63 fms.
- Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Auriculina*.

G4330 *E. ovalis* (A. ADAMS, 1861-a)

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Auriculina*.

G4331 *E. pyramis* (A. ADAMS, 1860-a)

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Odostomia* (*Evalea*).

□ Genus *Marginodostomia* NOMURA, 1936

Type species: *Odostomia suturamarginata* NOMURA, 1936 (o. d.)

G4332 *M. suturamarginata* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: Aomori prefecture and southwards, P9-P5, Seto inland sea, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5.
- Habitat: intertidal to 100 m., sand.
- Original genus: *Odostomia*.

G4333 *M. hilgendorfi* (CLESSIN, 1900)

- Ori-ire-kuchikire-modoki
- Type locality: Hakodate, Hokkaidō.
  - Distribution: southern Hokkaidō and southwards, P10-P5, Seto inland sea, Japan Sea (Sado island, J3-J1), EC5.
  - Habitat: intertidal to 90 m., sand.
  - Original genus: *Odostomia*.

G4334 *M. abnormalis* (NOMURA, 1937)

- Type locality: Zushi, eastern Sagami bay, central Honshū.
- Distribution: western Seto inland sea (TSUCHIDA, HORI & MITOKI, 1991), type locality.
- Original genus: *Odostomia* (as ssp. of *O. hilgendorfi*).

G4335 *M. misakiensis* (NOMURA, 1939-b)

- Type locality: Misaki, Kanagawa prefecture (Sagami bay, central Honshū).
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Odostomia* (*Marginodostomia*).

G4336 *M. pseudoperforata* (NOMURA, 1939-b)

- Type locality: Tonbe, Ogasa district, Shizuokua prefecture (fossil).
- Distribution: Ōsaka bay (KOJIMA, NISHIKAWA & OKAMURA, 1995).
- Original genus: *Odostomia*.

G4337 *M. subangulata* (A. ADAMS, 1860-i)

- Hoso-ori-ire-kuchikire-modoki
- Type locality: Tsushima, western Japan Sea; 26 fms.
  - Distribution: Sagami bay (central Honshū), off Tsushima.
  - Habitat: 50-100 m., sand.
  - Original genus: *Odostomia*.

G4338 *M. tenera* (A. ADAMS, 1860-a)

- Sukashi-kuchikire-modoki (= Kuchihida-kuchikire-modoki)
- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.

- Distribution: Sagami bay and southwards, P6-P5, western Kyūshū, western Seto inland sea (TSUCHIDA, HORI & MITOKI, 1991); 'Pacific side, 35° N., Japan Sea side 35° N.' (KURODA & HABE, 1952-a), Japan Sea (off Yamaguchi prefecture TSUCHIDA & HORI, 1996; western Hokkaidō HORI & IIZUMI, 1997)

• Habitat: 30-100 m., sand.

• Original genus: *Odostomia*.

□ Genus *Turriodostomia* HABE, 1961-c

Type species: *Odostomia* (*Turriodostomia*) *nakayamai* HABE, 1961 (o. d.)

G4339 *T. nakayamai* (HABE, 1961-c)

- Takenoko-kuchikire-modoki
- Type locality: Tosa bay, southern Shikoku; ± 150 m.
  - Distribution: recorded only from type locality.
  - Original genus: *Odostomia* (*Turriodostomia*).

□ Genus *Besla* DALL & BARTSCH, 1904

Type species: *Chrysallida convexa* CARPENTER, 1857 (o. d.)

G4340 *B. bicinctella* (YOKOYAMA, 1927)

- Futa-suji-kuchikire
- Type locality: Dokanyama, Taito-Ku, Tōkyō City (fossil).
  - Distribution: northeastern Honshū (Iwate prefecture).
  - Original genus: *Odostomia* (*Besla*).

□ Genus *Sinuatodostomia* NOMURA, 1937-b

Type species: *Odostomia sinuosa* NOMURA, 1937 non JEFFREYS, 1884 (o. d.; renamed *Sinuatodostomia nomurai* VAN AARTSEN & CORGAN, 1996)

G4341 *S. nomurai* CORGAN, 1996

- (= *Odostomia sinuosa* NOMURA, 1937 non JEFFREYS, 1884; *O. watarui* NOMURA, 1937)
- Type locality: off Kinkazan island, Miyagi prefecture, northeastern Honshū; 52 fms.
  - Distribution: northeastern Honshū (off Namino-sukejima, Ōtsuchi bay; 52-55 m. TSUCHIDA & HORI, 1992) and southwards, P9-P5, western Seto inland sea (TSUCHIDA, HORI & MITOKI, 1991), Japan Sea (Wakasa bay, J2-J1), EC5.
  - Habitat: subtidal to 60 m., sandy mud.

G4342 *S. inbana* (NOMURA, 1938-a)

- Type locality: Nakagawa, Shisui-machi, Chiba prefecture, central Honshū (fossil).
- Distribution: northeastern Honshū (off Suzume-jima, Ōtsuchi bay, Iwate prefecture; 20 m. TSUCHIDA & HORI, 1992).
- Original genus: *Odostomia* (*Sinuatodostomia*).

□ Genus *Boonea* ROBERTSON, 1978

Type species: *Jaminia seminuda* C. B. ADAMS, 1839 (o. d.)

G4343 *B. umboniocola* HORI & OKUTANI, 1995

Ibo-kisago-nakase-kuchikire-modoki

- Type locality: Tomioka bay, Amakusa island, southwestern Kyūshū; sand.
- Distribution: Hondo (Amakusa) and type locality.
- Habitat: ectoparasitic on *Umbonium moniliferum* (no. G459).

G4344 *B. okamurai* HORI & OKUTANI, 1996

Imogai-kuchikire-modoki

- Type locality: Ōkata-ura beach, Hachijō island, Izu islands.
- Distribution: Izu islands (Izu-Ōshima; Hachijō island), Kii peninsula, southwestern Shikoku.
- Habitat: in apertures of *Conus* spp.

□ Genus *Siogamaia* NOMURA, 1936

Type species: *Tropaeas (Siogamaia) fortiplicata* NOMURA, 1936 (o. d.)

G4345 *S. fortiplicata* NOMURA, 1936

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

G4346 *S. acutiperipherata* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast, 35°-38° N.' (KURODA & HABE, 1952-a).
- Original genus: '*Tropaeas*'?

G4347 *S. akasakiensis* NOMURA, 1936

- Type locality: Tako-no-ura, Akasaki village, Kesen district, Iwate prefecture, northeastern Honshū.
- Distribution: northeastern Honshū (Ōtsuchi bay); 'Pacific side, 39° N.' (KURODA & HABE, 1952-a).

G4348 *S. asamusi* NOMURA, 1936

- Type locality: Asamushi, Aomori prefecture, northern Honshū.
- Distribution: 'Pacific coast at 41° N.' (KURODA & HABE, 1952-a).

G4349 *S. desiderabilis* NOMURA, 1936

- Type locality: Kamakura, eastern Sagami bay, central Honshū.
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

G4350 *S. kinkwazan* NOMURA, 1937

- Type locality: off Kinkazan island, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

G4351 *S. minamotoi* NOMURA, 1936

- Type locality: Kamakura, eastern Sagami bay, central Honshū.
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

G4352 *S. odostomoides* NOMURA, 1937

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast, 35°-38° N.' (KURODA & HABE, 1952-a).

G4353 *S. problematica* NOMURA, 1936

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

G4354 *S. semiplicata* (TURTON, 1932)

Harusame-kuchikire

- Type locality: Port Alfred, South Africa.
- Distribution: Ogasawara islands (FUKUDA, 1994-a); South Africa.
- Original genus: *Odostomia*.

G4355 *S. takonourana* NOMURA, 1936

- Type locality: Tako-no-ura, Akasaki village, Kesen district, Iwate prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 39° N.' (KURODA & HABE, 1952-a).

G4356 *S. venus* NOMURA, 1936

- Type locality: Kamakura, eastern Sagami bay, central Honshū.
- Distribution: western Seto inland sea (TSUCHIDA, HORI & MITOKI, 1991), 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

G4357 *S.? quantoensis* NOMURA, 1937

- Type locality: Zushi, eastern Sagami bay, central Honshū.
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

□ Genus *Chrysallida* CARPENTER, 1856

Type species: *Chemnitzia communis* C. B. ADAMS, 1852 (o. d.)

G4358 *C. pusio* A. ADAMS, 1861-a

- Type locality: Tsushima, western Japan Sea; 16-26 fms.
- Distribution: 'Pacific coast, 33-34° N.' (KURODA & HABE, 1952-a); type locality.

G4359 *C. sibana* (YOKOYAMA, 1927)

Shiba-yoroi-kuchikire

- Type locality: Shiba-kuruma-cho, Minato-ku, Tōkyō City (fossil).
- Distribution: northeastern Honshū (off Suzume-jima, Ōtsuchi bay TSUCHIDA & HORI, 1992; Iwate City and southwards).

- Original genus: *Odostomia* (*Besla*).

G4360 *C. erucella* A. ADAMS, 1863-k

- Type locality: 'Seto-Uchi' (Seto inland sea); 'O-sima' (probably Kii-Ōshima, Kii peninsula); 'Takanosima'.
- Distribution: 'Pacific coast, 33°-35° N.' (KURODA & HABE, 1952-a).

G4361 *C. asiatica* CORGAN, 1970

(= *C. pulchella* A. ADAMS, 1860 non A. ADAMS, 1853)

- Type locality: 'North China'.
- Distribution: Kii peninsula and southwards, P5, Japan Sea (Wakasa bay, J2-J1), EC5; South China Sea.
- Habitat: intertidal to 140 m., sandy mud.

**Notes:** *Chrysallida innocua* CORGAN, 1970 was a replacement name for *C. inconspicua* A. ADAMS, 1861-g non C. B. ADAMS, 1852; the type locality is 'Kala-hai, Shantung, China' (Shandong province), and the present authors have found no record of this species from Japan.

G4362 *C. bellula* (A. ADAMS, 1860-i)

- Type locality: 'Tsu-Sima' (Tsushima, western Japan Sea); 26 fms.
- Distribution: Japan Sea coast, 34°-39° N. (KURODA & HABE, 1952-a).
- Original genus: *Parthenia*.

G4363 *C. costellata* A. ADAMS, 1861-f

- Type locality: 'Kala-hai, Shantung' (Shandong province, China).
- Distribution: 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a); China.

G4364 *C. dux* (DALL & BARTSCH, 1906)

- Type locality: 'Japan' (specimen in Berlin Museum).
- Distribution: 'Pacific side (?)' (KURODA & HABE, 1952-a).
- Original genus: *Odostomia* (*Chrysallida*).

G4365 *C. fenestrata* (A. ADAMS, 1860-i)

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Parthenia*.

G4366 *C. foveolata* (A. ADAMS, 1860-d)

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Parthenia*.

G4367 *C. galbula* A. ADAMS, 1863-k

- Type locality: Gotō islands, off western Kyūshū; 48 fms.
- Distribution: 'Pacific coast at 33° N.' (KURODA & HABE, 1952-a).

G4368 *C. littoralis* (A. ADAMS, 1861-a)

- Type locality: 'Tsu-Sima (Tsushima, western Japan sea); on oysters at low water (rocks)'.

- Distribution: 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a).

G4369 *C. metula* A. ADAMS, 1860-d

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: 'Japan Sea coast, 35° N.' (KURODA & HABE, 1952-a).

G4370 *C. minna* A. ADAMS, 1860-d

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: 'Pacific coast at 33° N., Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).

G4371 *C. munda* A. ADAMS, 1861-a

- Type locality: Korea strait; 46 fms.
- Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).

G4372 *C. nana* A. ADAMS, 1861-a

- Type locality: Tsushima, western Japan Sea; 16-26 fms.
- Distribution: 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a).

G4373 *C. pygmaea* A. ADAMS, 1861-a

- Type locality: Port Hamilton (Kyobunto island, near Gehaku lighthouse, southern Korea), 7 fms.
- Distribution: 'Pacific coast at 33° N., Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a); type locality.

G4374 *C. simplicata* A. ADAMS, 1860-d

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: off Kii peninsula and southwards, P5, Japan Sea (Mishima, J2-J1), EC5.

G4375 *C. semipunctata* NOMURA, 1937

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

G4376 *C. terebra* A. ADAMS, 1861-a

- Type locality: Tsushima, western Japan Sea; 16-26 fms.
- Distribution: 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a).

G4377 *C. tribulationis* (HEDLEY, 1909)

- Rokkotsu-kuchikire
- Type locality: off Hope island, Queensland, Australia.
- Distribution: western Japan Sea (northern Yamaguchi prefecture HORI, 1998); Australia.
- Original genus: *Odostomia*.

□ Genus *Numaegilina* NOMURA, 1938

Type species: *Chrysallida* (*Numaegilina*) *gloria* NOMURA, 1938 (o. d.)

G4378 *N. gloria* (NOMURA, 1938)

Misakae-kuchikire

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: Ogasawara islands (FUKUDA, 1995), western Japan Sea (northern Yamaguchi prefecture HORI, 1996), Seto inland sea (INABA, 1982); type locality.
- Habitat: intertidal to 30 m., rocks & gravel.
- Original genus: *Chrysallida* (*Numaegilina*).

□ Genus *Mumiola* A. ADAMS, 1863

Type species: *Monoptygma spirata* A. ADAMS, 1853 (s. d. VERRILL & BUSH, 1900)

G4379 *M. spirata* (A. ADAMS, 1853-h)

Itokake-tairu-bari-kuchikire

- Type locality: Camaguin, Philippines.
- Distribution: 'Pacific side, 14°-34° N.' (KURODA & HABE, 1952-a); Philippines.
- Original genus: *Monoptygma*.

G4380 *M. reticosa* A. ADAMS, 1863-k

- Type locality: 'Seto-Uchi' (Seto inland sea).
- Distribution: 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a).

G4381 *M. tessellata* A. ADAMS, 1863-k

Tairu-bari-kuchikire

- Type locality: 'Tanabe; O-sima' (Kii-Ōshima, Wakayama prefecture).
- Distribution: Suruga bay and southwards, P6-P5, EC5, Seto inland sea.
- Habitat: intertidal to 30 m., rocks and gravel.

□ Genus *Parthenina* BUCQUOY *et al.*, 1883

Type species: *Turbo interstinctus* MONTAGU, 1803 (o. d.)

G4382 *P. affectuosa* (YOKOYAMA, 1927)

Yokosuji-giri

- Type locality: Shiba-kuruma-cho, Minato-ku, Tōkyō City (fossil).
- Distribution: northeastern Honshū (off Iwate prefecture; off Miyagi prefecture), Japan Sea (northern Yamaguchi prefecture HORI, 1996; western Hokkaidō HORI & IIZUMI, 1997), 'Pacific side 33-38° N.' (ŌYAMA, 1973).
- Habitat: intertidal to 30 m, among aggregations of *Pomatoleios kraussi*.
- Original genus: *Odostomia* (*Egilina*).

G4383 *P. gracilis* (YOKOYAMA, 1926)

- Type locality: Sado island, Japan Sea (fossil).
- Distribution: northeastern Honshū (Iwate prefecture) (Takono-ura; Akasaki village; Kesen district); 'Pacific side, 39° N.' (KURODA & HABE, 1952-a).
- Original genus: *Odostomia* (*Egilina*).

G4384 *P. meta* (DALL & BARTSCH, 1906)

- Type locality: 'Japan' (specimen in Berlin Museum).

- Distribution: 'Pacific side?' (KURODA & HABE, 1952-a).

- Original genus: *Odostomia* (*Parthenina*).

G4385 *P. orientalis* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: western Seto inland sea (TSUCHIDA, HORI & MITOKI, 1991); 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Chrysallida* (*Miralda*).

G4386 *P. marielloides* (YOKOYAMA, 1922)

Sakihida-kuchikire

- Type locality: Shisui, Inba district, Chiba prefecture, central Honshū (fossil).
- Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay, off Suzumejima; 20 m. TSUCHIDA & HORI, 1992), Miyagi prefecture (off Enoshima, 20-30 m., mud).
- Original genus: *Odostomia* (*Egilina*).

G4387 *P. quantoana* (NOMURA, 1937)

Kawari-itokake-giri-modoki

- Type locality: Zushi, eastern Sagami bay, central Honshū.
- Distribution: northeastern Honshū (Miyako bay; Ōtsuchi bay TSUCHIDA & HORI, 1992; off Enoshima), Japan Sea (Sado island. and southwards; off Ōmi-jima, Yamaguchi prefecture HORI & TSUCHIDA, 1989).
- Habitat: 10-100 m., sandy mud.
- Original genus: *Turbonilla* (*Sulcoturbonilla*).

G4388 *P. monocycla* (A. ADAMS, 1860-d)

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: known only from type locality.
- Original genus: *Parthenia*.

□ Genus *Trabecula* MONTEROSATO, 1884

Type species: *Trabecula jeffreysiana* MONTEROSATO, 1884 (mt.)

G4389 *T. abei* (NOMURA, 1938)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 41° N.' (KURODA & HABE, 1952-a).
- Original genus: *Chrysallida* (*Trabecula*).

G4390 *T. plicata* (A. ADAMS, 1860-d)

Kinuji-kuchikire

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (off Mishima and Tsunoshima TSUCHIDA & HORI, 1996, J2-J1), EC5, Seto inland sea.
- Habitat: intertidal to 20 m., sandy mud.
- Original genus: *Chrysallida*.



G4391 *T. montforti* (CORGAN, 1972)

(= *Odostomia* (*Nesiodostomia*) *secunda* PILSBRY, 1918)  
Samidare-kuchikire

- Type locality: Oahu, Hawaii.
- Distribution: Ogasawara islands (FUKUDA, 1994-a); Hawaii.
- Original genus: *Nesiodostomia*.

G4392 *T. punctigera* (A. ADAMS, 1860-i)

Ayatori-kuchikire

- Type locality: 'Sado' (Sado island, Japan Sea); 30 fms.
- Distribution: Japan Sea (Wakasa Bay ITŌ, 1990; off Tsunoshima TSUCHIDA & HORI, 1996), 'Pacific coast at 33° N., Japan Sea coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Parthenia*.

G4393 *T. tantilla* (A. ADAMS, 1863-k)

Amime-kuchikire

- Type locality: 'O-sima; Tanabe' (Kii-Ōshima, Kii peninsula), 'Takano-Sima' (Takanoshima, southern Bōsō peninsula, Chiba prefecture).
- Distribution: northeastern Honshū (off Enoshima, Miyagi prefecture), Sagami bay, Kii peninsula, Japan Sea (off Yamaguchi prefecture); Palau.
- Habitat: intertidal to 40 m., sandy mud.
- Original genus: *Pyrgulina*.

G4394 *T. tantilloides* (NOMURA, 1938)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast, 35°-38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Chrysallida* (*Trabecula*).

G4395 *T. yositunei* (NOMURA, 1938)

- Type locality: Kamakura, eastern Sagami bay, central Honshū.
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Chrysallida* (*Trabecula*).

□ Genus *Pyrgulina* A. ADAMS, 1863-k

Type species: *Chrysallida casta* A. ADAMS, 1861 (s. d. DALL & BARTSCH, 1904)

G4396 *P. casta* (A. ADAMS, 1861-f)

Kagome-itokake-kuchikire

- Type locality: 'Kara-hai, Shantung' (Shandong province, China).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5; China.
- Habitat: among seagrass in sandy mud.
- Original genus: *Chrysallida*.

G4397 *P. alveata* (A. ADAMS, 1861-a)

Futo-itokake-kuchikire

- Type locality: Tsushima, western Japan Sea; 16-26 fms.
- Distribution: northeastern Honshū (Onagawa village, Miyagi prefecture) and southwards, P8-P5, Japan Sea (Wakasa bay J2-J1), EC5, Seto inland sea.
- Habitat: intertidal to 30 m., rocks and gravel.
- Original genus: *Chrysallida*.

G4398 *P. alveatoides* (NOMURA, 1938)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast, 35°-40° N.' (KURODA & HABE, 1952-a).
- Original genus: *Chrysallida*.

G4399 *P. brenda* (A. ADAMS, 1860-d)

Warabe-kuchikire

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: western Japan Sea (northern Yamaguchi prefecture HORI, 1998; type locality), 'Pacific coast, 34°-35° N., Japan Sea coast at 37° N.' (KURODA & HABE, 1952-a).
- Original genus: *Chrysallida*.

G4400 *P. concinna* (A. ADAMS, 1860-d)

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Chrysallida*.

G4401 *P. consimilis* (A. ADAMS, 1861-a)

- Type locality: 'Port Hamilton' (Kyobunto island, near Gehaku lighthouse, southern Korea); 7 fms.
- Distribution: 'Pacific coast, 33°-35° N.' (KURODA & HABE, 1952-a); type locality.
- Original genus: *Chrysallida*.

G4402 *P. consobrina* (A. ADAMS, 1861-a)

Itoko-kuchikire

- Type locality: 'Awa-Sima (in shell sand)' (Awashima, Japan Sea off Niigata prefecture, northern Honshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Awashima, J4-J1), EC5, Seto inland sea.
- Habitat: intertidal to 30 m., rocks, gravel and shell sand.
- Original genus: *Chrysallida*.

G4403 *P. costulata* (DUNKER, 1860)

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: 'Pacific coast at 33° N.' (KURODA & HABE, 1952-a).
- Original genus: *Odostomia*.

G4404 *P. decussata* A. ADAMS, 1863-k

- Type locality: 'Gotto Islands' (Gotō islands, off western Kyūshū); 48 fms.

- Distribution: 'Pacific coast at 33° N.' (KURODA & HABE, 1952-a).

G4405 *P. densecostata* (GARRETT, 1873)

Chirimen-itokake-kuchikire

- Type locality: Samoa and Viti islands.
- Distribution: Okinawa (KURODA, 1960); type localities.
- Original genus: *Odostomia*.

G4406 *P. filocincta* (A. ADAMS, 1863-d)

• Type locality: 'O-sima' (probably Kii-Ōshima, Kii peninsula).

- Distribution: 'Pacific coast, 33°-35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Chrysallida*.

G4407 *P. lecta* (DALL & BARTSCH, 1906)

• Type locality: 'Japan'.

- Distribution: unknown.
- Original genus: *Odostomia* (*Pyrgulina*).

G4408 *P. mundula* (A. ADAMS, 1861-h)

Uzura-itokake-kuchikire

- Type locality: 'Lo-shan-kow, Shan-tung' (Laoshan?, Shandong province, China).
- Distribution: 'Pacific coast at 33° N., Japan Sea coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Chrysallida*.

G4409 *P. nisitugaruensis* (NOMURA & HATAI, 1940)

- Type locality: western Tsugaru peninsula, Aomori prefecture, northern Honshū.
- Distribution: 'Japan Sea coast at 40° N.' (KURODA & HABE, 1952-a).
- Original genus: *Chrysallida* (*Pyrgulina*).

G4410 *P. ovumformis* (NOMURA, 1938)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast, 35-38° N.' (KURODA & HABE, 1952-a)
- Original genus: *Chrysallida* (*Pyrgulina*).

G4411 *P. pretiosa* (TURTON, 1932)

Chabo-itokake-kuchikire

- Type locality: Port Alfred, South Africa.
- Distribution: Ogasawara islands (FUKUDA, 1995); South Africa.
- Original genus: *Odostomia*.

G4412 *P. pseudalveata* (NOMURA, 1936)

Mushiro-itokake-kuchikire

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: Japan Sea (western Hokkaidō HORI & IIZUMI, 1997; northern Yamaguchi prefecture HORI, 1996), 'Pacific coast at 38° N.' (KURODA & HABE, 1952-

a).

- Original genus: *Chrysallida* (*Pyrgulina*).

G4413 *P. pulchella* (A. ADAMS, 1860-d)

Otogi-kuchikire

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: Seto inland sea (Akashi, Hyōgo prefecture A. ADAMS, 1863), western Kyūshū (Gotō islands A. ADAMS, 1863), Japan Sea (Wakasa bay ITŌ, 1990; off Tsunoshima and Mishima TSUCHIDA & HORI, 1996), 'Pacific coast at 33° N., Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Chrysallida*.

G4414 *P. pupula* (A. ADAMS, 1861-a)

Sanagi-itokake-kuchikire

- Type locality: Tsushima, western Japan Sea; 16-26 fms.
- Distribution: Sagami bay and southwards, P7-P5, Seto inland sea, Japan Sea (Sado island, J3-J1), EC5.
- Habitat: intertidal to 30 m., rocks and gravel.
- Original genus: *Chrysallida*.

G4415 *P. pura* (A. ADAMS, 1861-a)

- Type locality: 'Awa-Sima (in shell sand)' (Awashima, Japan Sea off Aomori prefecture, northern Honshū).
- Distribution: 'Pacific coast at 35° N., Japan Sea coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Chrysallida*.

G4416 *P. simokitana* (NOMURA, 1939-b)

- Type locality: Shimokita peninsula, Aomori prefecture, northern Honshū.
- Distribution: 'Pacific coast at 41° N.' (KURODA & HABE, 1952-a).
- Original genus: *Chrysallida* (*Pyrgulina*).

□ Genus *Miralda* A. ADAMS, 1863-k

Type species: *Parthenia diadema* A. ADAMS, 1860 (s. d. VERRILL & BUSH, 1900)

(= *Lia* FOLIN, 1870 non ESCHSCHOLTZ, 1829)

G4417 *M. diadema* (A. ADAMS, 1860-d)

Arare-kuchikire

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Wakasa bay, J2-J1), EC5, Seto inland sea.
- Habitat: 10-30 m., rocks and gravel.
- Original genus: *Parthenia*.

G4418 *M. eximia* (DAUTZENBERG & FISCHER, 1906)

Nagame-arare-kuchikire

- Type locality: 'Annam, l'Indo-Chine' (Vietnam).
- Distribution: Ogasawara islands (FUKUDA, 1995); southeast Asia.
- Original genus: *Pyrgulina*.

G4419 *M. gemma* (A. ADAMS, 1861-f)

Hoso-arare-kuchikire

- Type locality: Hulu-shan bay (China), 3 fms
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, Seto inland sea; China.
- Habitat: 10-30 m., rocks and gravel.
- Original genus: *Chrysallida*.

G4420 *M. attentissima* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Chrysallida* (*Miralda*).

G4421 *M. diademaeformis* (NOMURA, 1938)

- Type locality: Kamakura, eastern Sagami bay, central Honshū.
- Distribution: off Chiba prefecture (central Honshū), 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Menestho* (*Oscilla*).

G4422 *M. sitizoi* (NOMURA, 1937)

- Type locality: Zushi, eastern Sagami bay, central Honshū.
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Chrysallida*.

G4423 *M. scopulorum* (WATSON, 1886)

(= *M. suprasculpta* sensu FUKUDA, 1994-a; HORI, 1995 non TENISON-WOODS, 1877)

Juzumaki-kuchikire-modoki

- Type locality: off Honolulu, Hawaii.
- Distribution: Okinawa islands (off Zamami island), Ogasawara islands (Chichijima FUKUDA, 1994-a); Australia, Palau (Koror island HORI, 1995).
- Original genus: *Odostomia*.

□ Genus *Babella* DALL & BARTSCH, 1906

Type species: *Turbonilla* (*Babella*) *caelator* DALL & BARTSCH, 1906 (o. d.)

G4424 *B. caelator* (DALL & BARTSCH, 1906)

(= *Parthenia caelata* A. ADAMS, 1863-k non GOULD, 1861 in 1859-61)

Kusazuri-kuchikire (= Nedake-kuchikire)

- Type locality: 'Seto-Uchi; Akasi (Akashi, Hyōgo prefecture, eastern Seto inland sea) and 'Tsu-sima' (Tsushima, western Japan Sea).
- Distribution: Bōsō peninsula and westwards, P7-P5, Seto inland sea, Japan Sea (Sado island, J2-J1), EC5.
- Habitat: subtidal to 30 m., among aggregations of *Pomatoleios kraussi* and others.
- Original genus: *Turbonilla* (*Babella*).

G4425 *B. yabei yabei* (NOMURA, 1936)

Yabe-kusazuri-kuchikire

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: Shiogama bay and southwards, P8-P5, Seto inland sea.
- Habitat: subtidal to 30 m., on seaweed among rocks and gravel.
- Original genus: *Chrysallida* (*Miralda*).

G4426 *B. yabei permariella* NOMURA, 1938

- Type locality: Sagami bay, central Honshū.
- Distribution: Sagami bay, Seto inland sea.
- Habitat: subtidal to 30 m., rocks and gravel.
- Original genus: *Chrysallida* (*Miralda*).

□ Genus *Egilina* DALL & BARTSCH, 1906

Type species: *Parthenia mariella* A. ADAMS, 1860 (o. d.)

G4427 *E. mariella* (A. ADAMS, 1860-i)

Tatsumaki-kuchikire

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: western Kyūshū (Gotō islands A. ADAMS, 1863), western Japan Sea (Nagato, Yamaguchi prefecture), Seto inland sea, Amami Ōshima (TSUCHIDA & HORI, 1996); 'Pacific coast, 27-34° N., Japan Sea coast at 37° N.' (KURODA & HABE, 1952-a).
- Original genus: *Parthenia*.

G4428 *E. mariellaeformis* (NOMURA, 1938)

Ōrora-kuchikire

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: Miyagi prefecture, Seto inland sea, Japan Sea (northern Yamaguchi prefecture).
- Habitat: intertidal to 30 m., rocks and gravel
- Original genus: *Miralda*.

□ Genus *Iolaea* A. ADAMS, 1867

Type species: *Iole scitula* A. ADAMS, 1860 (mt.) (= *Iolea* PASCOE, 1858; *Iole* A. ADAMS, 1860 non BLYTHE, 1844; *Iolina* BAILEY, 1945)

G4429 *I. scitula* (A. ADAMS, 1860-b)

Hachimaki-kuchikire

- Type locality: Korea strait; 63 fms.
- Distribution: western Seto inland sea (TSUCHIDA, HORI & MITOKI, 1991), northern Japan Sea (Oshoro bay, western Hokkaidō HORI & IIZUMI, 1997), 'Pacific coast, 33°-35° N., Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Iole*.

G4430 *I. amicalis* (YOKOYAMA, 1927)

Haori-kuchikire

- Type locality: Ōji, Kita-ku, Tōkyō City (fossil).
- Distribution: northeastern Honshū (Iwate prefecture) and

southwards, P9-P5, Seto inland sea, EC5.

- Habitat: 10-30 m., sandy mud.
- Original genus: *Odostomia* (*Iolaea*).

G4431 *I. lectissima* (DALL & BARTSCH, 1906)

- Type locality: 'Japan' (specimen in Berlin Museum).
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Odostomia* (*Odetta*).

G4432 *I. neofelix* (YOKOYAMA, 1922)

Megumi-kuchikire

- Type locality: Ōji, Kita-ku, Tōkyō City (fossil).
- Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay TSUCHIDA & HORI, 1992; Tomari, Suesaki village), western Seto inland sea (TSUCHIDA, HORI & MITOKI, 1991).
- Habitat: 10-30 m., sandy mud.
- Original genus: *Odostomia* (*Odetta*).

G4433 *I. neofelixoides* (NOMURA, 1936)

Tōdaka-chirimen-kuchikire

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: northeastern Honshū (Ōtsuchi bay, 3-5 m. TSUCHIDA & HORI, 1992) and southwards, P9-P5, Seto inland sea, northern Kyūshū (Odo, Fukuoka prefecture), Japan Sea (western Hokkaidō HORI & IIZUMI, 1997).
- Habitat: 10-30 m., sandy mud.
- Original genus: *Kleinella*.

G4434 *I. amabilis* A. ADAMS, 1867-a

- Type locality: 'O-Sima, Tanabe' (Kii-Ōshima, Kii peninsula) and 'Gotto' (Gotō islands, off western Kyūshū); 48 fms.
- Distribution: 'Pacific coast, 33°-34° N.' (KURODA & HABE, 1952-a).

G4435 *I. dubia* GOLIKOV & KUSAKIN in GOLIKOV & SCARLATO, 1967

- Type locality: Posyet bay, Primoriye region, Russia (Japan Sea coast); 8-12 m., on rocks among bivalve *Crenomytilus grayanus* (DUNKER, 1853).
- Distribution: Japan Sea (Sado island; Primoriye region).

G4436 *I. sculptilis* (A. ADAMS, 1861-f)

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: 'Pacific coast at 33° N., Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Menestho*.

□ Genus *Menestho* MÖLLER, 1842

Type species: *Turbo albulus* FABRICIUS, 1780 (mt.)

G4437 *M. akkeshiensis* HABE, 1958-j

Akkeshi-hisago-kuchikire

- Type locality: Akkeshi bay, eastern Hokkaidō.

- Distribution: recorded only from type locality.
- Habitat: intertidal to 30 m., sandy mud.

G4438 *M. cingulitissima* NOMURA, 1937

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

G4439 *M. glabritesta* NOMURA, 1936

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: Japan Sea (Noto peninsula, 100-106 m. K. ITŌ, 1986), 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

G4440 *M. kesenumensis* NOMURA, 1938

- Type locality: Kesen-numa, Miyagi prefecture, northeastern Honshū.
- Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay TSUCHIDA & HORI, 1992), Miyagi prefecture (Kesen-numa; Miyako bay).

G4441 *M. kwantoensis* NOMURA, 1938

- Type locality: Kamakura, eastern Sagami bay, central Honshū.
- Distribution: 'Pacific coast, 34°-35° N.' (KURODA & HABE, 1952-a).

G4442 *M. sexsulcata* NOMURA, 1936

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

G4443 *M. shataii* NOMURA, 1936

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

Notes: originally named '*s-hataii*' after Dr. Shinkishi Hatai.

G4444 *M. suavis* NOMURA, 1936

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

G4445 *M. exaratissima* (DALL & BARTSCH, 1906)

(= *M. exarata* A. ADAMS, 1861 non CARPENTER, 1856)

Hisago-kuchikire

- Type locality: 'Hakodadi (Hakodate) Bay; 16 fathoms'.
- Distribution: northeastern Honshū (Ōfunato bay; Ōtsuchi bay TSUCHIDA & HORI, 1992), southern Hokkaidō.
- Original genus: *Odostomia* (*Menestho*).

G4446 *M. hypocurta* (DALL & BARTSCH, 1906)

- Type locality: USBF sta. 3306, off Bristol bay (Bering Sea, Alaska)
- Distribution: Kuril islands; Alaska.
- Original genus: *Odostomia* (*Menestho*).

□ Genus *Aartsenia* WARÉN, 1991

Type species: *Amaura candida* MÖLLER, 1842 (mt.)  
(= *Amaura* MÖLLER, 1842 non GEYER, 1837)

G4447 *A. japonica* (A. ADAMS, 1860-a)

Koshidaka-dō-maru-kuchikire

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay TSUCHIDA & HORI, 1992) and southwards, P9-P5, Japan Sea (off central Niigata prefecture, J3-J1).
- Habitat: 50-150 m., sand.
- Original genus: *Odostomia*.

**Notes:** the probable holotype (BMNH 1878.1.28.296) of this species is lost.

G4448 *A. sagamiensis* KURODA & HABE in KURODA *et al.*, 1971

Sagami-dō-maru-kuchikire

- Type locality: 1.5 km. west off Kamekisho, Sagami bay, central Honshū; 60 m.
- Distribution: Sagami bay, Japan Sea (off Noto peninsula).
- Habitat: 50-100 m., sand.

G4449 *A. martensi* (DALL & BARTSCH, 1906)

(= *Odostomia curta* CLESSIN, 1900 non DESHAYES, 1864)

Nise-dō-maru-kuchikire

- Type locality: 'Killisnoo' (Alaska).
- Distribution: southern Kuril islands, P10-P5, EC5.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Odostomia* (*Amaura*).

□ Genus *Oscilla* A. ADAMS, 1861-c

Type species: *Monoptygma cingulata* A. ADAMS, 1861 (mt.)

(= *Jaminea* FOLIN, 1869 non GRAY, 1847)

G4450 *O. cingulata* (A. ADAMS, 1861-c)

- Type locality: Hulu-shan bay (China), 3 fms.
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a); China.
- Original genus: *Monoptygma*.

G4451 *O. annulata* (A. ADAMS in H. & A. ADAMS, 1853)

- Type locality: Cagayan, Mindanao, Philippines; 25 fms., muddy sand.
- Distribution: 'Pacific side 18°-34° N.' (KURODA & HABE, 1952-a); Philippines.
- Original genus: *Obeliscus*.

G4452 *O. bosyuensis* (NOMURA, 1937)

Rērumaki-kuchikire

- Type locality: Numa, Tateyama City, Chiba prefecture, central Honshū (fossil).
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea (Yamaguchi prefecture HORI, 1998), Japan Sea (Wakasa bay, J2-J1), EC5.
- Habitat: 10-140 m., sandy mud.
- Original genus: *Menestho* (*Oscilla*).

G4453 *O. circinata* A. ADAMS, 1867-a

Itomaki-kuchikire-modoki

- Type locality: 'O-Sima' (probably Kii-Ōshima, Wakayama prefecture) and 'Takano-Sima' (Takanoshima, southern Bōsō peninsula, central Honshū).
- Distribution: Ogasawara islands (FUKUDA, 1995), Bōsō peninsula and southwards, P7-P5, Japan Sea (Sado island, J3-J1), EC5, Seto inland sea.
- Habitat: 10-30 m., on seaweed among rocks and gravel.

G4454 *O. felix* (DALL & BARTSCH, 1906)

- Type locality: 'Japan' (specimen in Berlin Museum).
- Distribution: northeastern Honshū (off Enoshima, Miyagi prefecture; 20 fms. NOMURA, 1940).
- Original genus: *Odostomia* (*Odetta*).

G4455 *O. koheii* (NOMURA, 1937)

- Type locality: Zushi, eastern Sagami bay, central Honshū.
- Distribution: 'Pacific coast at 39° N.' (KURODA & HABE, 1952-a).
- Original genus: *Chrysallida*.

G4456 *O. tempeii* (NOMURA, 1937)

Ō-rērumaki-kuchikire

- Type locality: Zushi, eastern Sagami bay, central Honshū.
- Distribution: Yamaguchi prefecture (Japan Sea and Seto Inland Sea coasts HORI, 1998); 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Chrysallida* (*Miralda*).

G4457 *O. tricordata* (NOMURA, 1938)

Yoko-itokake-kuchikire

- Type locality: Wada, Hatsuse Village, Kanagawa prefecture, central Honshū.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, Seto inland sea.
- Habitat: 10-60 m., sandy mud.
- Original genus: *Menestho* (*Oscilla*).

G4458 *O. lirata* (A. ADAMS, 1860-i)

Itomaki-kuchikire

- Type locality: 'Tabu-sima' (Tobishima, Japan Sea), 26 fms.; 'Sado' (Sado island, Japan Sea), 30 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Sado island, J3-J1), EC5, Seto inland sea.
- Habitat: 10-30 m., sandy mud.
- Original genus: *Odostomia* (*Evalea*).

G4459 *O. perfelix* (NOMURA, 1938)

- Type locality: Kamakura, eastern Sagami bay, central Honshū.
- Distribution: western Seto inland sea (TSUCHIDA, HORI & MITOKI, 1991), Sagami bay and southwards, P6-P5, Japan Sea (off northern Niigata prefecture, J3-J1).
- Habitat: 10-130 m., sandy mud.
- Original genus: *Menestho*.

G4460 *O. ogasaensis* (NOMURA, 1939-b)

- (= *Menestho (Oscilla) tarukiensis* NOMURA, 1939-b)
- Type locality: Tonbe, Ogasa district, Shizuoka prefecture (fossil)
  - Distribution: Japan Sea (Wakasa bay, 76-94 m. K. ITŌ, 1990).
  - Original genus: *Menestho (Oscilla)*.

G4461 *O. mutuensis* (NOMURA, 1938)

- Type locality: Asamushi, Mutsu bay, Aomori prefecture, northern Honshū.
- Distribution: Mutsu bay and southwards, Miyagi prefecture (Dejima; Onagawa village).

G4462 *O. obtusa* (GOULD, 1861 in 1859-61)

- Gūrudo-kuchikire
- Type locality: Port Lloyd (Futami harbour), Ogasawara islands.
  - Distribution: Ogasawara islands (Chichijima FUKUDA, 1994-a; type locality).
  - Original genus: *Odostomia*.

G4463 *O. voorwindei* (LASERON, 1959)

- Azami-itomaki-kuchikire
- Type locality: Heron island, Capricorn group, northern Australia; 6-25 ft.
  - Distribution: Ogasawara islands (FUKUDA, 1995); Australia.
  - Original genus: *Hinemoa*.

□ Genus *Hinemoa* OLIVER, 1915

Type species: *Hinemoa punicea* OLIVER, 1915 (mt.)

G4464 *H. rubra* LASERON, 1959

- Hinemosu-kuchikire
- Type locality: Heron island, Capricorn group, northern Australia.
  - Distribution: Ogasawara islands (FUKUDA, 1995); Australia.

□ Genus *Herviera* MELVILL & STANDEN, 1899

Type species: *Pyrgulina gliriella* MELVILL & STANDEN, 1896 (o. d.)

G4465 *H. gliriella* (MELVILL & STANDEN, 1896)

- Kin-iro-sanagi-kuchikire
- Type locality: Lifu, Loyalty islands, New Caledonia.
  - Distribution: Okinawa; New Caledonia, Indonesia.

□ Genus *Syrnola* A. ADAMS, 1860-c

Type species: *Syrnola gracillima* A. ADAMS, 1860 (mt.)

G4466 *S. gracillima* A. ADAMS, 1860-c

- Type locality: Korea strait; 63 fms.
- Distribution: 'Pacific coast at 35° N., Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).

G4467 *S. hanagaiensis* NOMURA, 1938-a

- Hade-kuchikire
- Type locality: Hanagai, Iwate prefecture, northeastern Honshū.
  - Distribution: off Chōshi (Chiba prefecture, central Honshū) and northwards, P8-P10.
  - Habitat: 200-300 m., sand.

G4468 *S. cinctella* A. ADAMS, 1860-h

- Hoso-kuchikire
- Type locality: Korea strait; 46 fms.
  - Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5.
  - Habitat: 10-90 m., sandy mud.

G4469 *S. subcinctella* NOMURA, 1936

- Ko-hoso-kuchikire (= Hoso-kuchikire-modoki)
- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
  - Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5 (western Seto inland sea TSUCHIDA, HORI & MITOKI, 1991), Japan Sea (southwest off Sado id., J3-J1), EC5.
  - Habitat: 10-140 m., sandy mud.

G4470 *S. bacillum* PILSBRY, 1901-b

- Ko-yōji-kuchikire
- Type locality: 'Hirado, Hizen' (Hirado island, Nagasaki prefecture).
  - Distribution: northern and western Kyūshū (Genkai-nada; Hibiki-nada; Hirado island, Amakusa island).
  - Habitat: 5-30 m., sandy mud.

G4471 *S. subulina* A. ADAMS, 1863-a

- Type locality: 'Takano-Sima' (Takanoshima, southern Bōsō peninsula, central Honshū).
- Distribution: Sagami bay (Enoshima) and southwards, P6-P5, northwestern Kyūshū.
- Habitat: intertidal to 30 m., sandy mud.

G4472 *S. cinnamomea* (A. ADAMS, 1863-a)

- Kogecha-chibi-kuchikire
- Type locality: 'O-sima' (probably Kii-Ōshima, Wakayama prefecture).
  - Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Ogasawara islands (Iō-jima), Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5.

- Habitat: 10-140 m., sandy mud.
- Original genus: *Elusa*.

G4473 *S. unilineata* (GARRETT, 1873)

Hito-suji-hoso-kuchikire

- Type locality: 'Viti islands' (Fiji).
- Distribution: Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967), Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia.
- Habitat: intertidal to 20 m., sandy mud.
- Original genus: *Odostomia*.

G4474 *S. elegans* (A. ADAMS in H. & A. ADAMS, 1853)

- Type locality: 'Singapore'.
- Distribution: Pacific coast, 0°-34° N. (KURODA & HABE, 1952-a); Singapore.
- Original genus: *Obeliscus*.

G4475 *S. lactea* A. ADAMS, 1863-a

- Type locality: 'O-sima' (probably Kii-Ōshima, Wakayama prefecture).
- Distribution: 'Pacific coast at 33° N.' (KURODA & HABE, 1952-a).

G4476 *S. mera* A. ADAMS, 1860-h

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: 'Pacific coast at 33° N., Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).

G4477 *S. azona* NOMURA, 1937

- Type locality: Zushi, eastern Sagami bay, central Honshū.
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

G4478 *S. bizonalis* A. ADAMS, 1860-h

- Type locality: Korea strait; 46 fms.
- Distribution: Japan Sea coast at 35° N. (KURODA & HABE, 1952-a).

G4479 *S. columnella* A. ADAMS, 1863-a

- Type locality: 'Seto-Uchi; Mososeki' (Moji, Fukuoka prefecture, western Seto inland sea).
- Distribution: 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a).

G4480 *S. crocata* (A. ADAMS, 1865 in SOWERBY II, 1842-87)

- Type locality: Japan.
- Distribution: 'Pacific side?' (KURODA & HABE, 1952-a).
- Original genus: *Pyramidella*.

G4481 *S. cylindrella* A. ADAMS, 1863-a

- Type locality: 'Takano-Sima' (Takanoshima, southern Bōsō peninsula, Chiba prefecture).
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

G4482 *S. daedala* A. ADAMS, 1863-a

- Type locality: 'Uraga,' 'Uraga' (Uraga, eastern Miura peninsula, mouth of Tōkyō bay).
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

G4483 *S. hanzawai* NOMURA, 1939-b

- Type locality: Okinawa.
- Distribution: 'Pacific coast at 26° N.' (KURODA & HABE, 1952-a).

G4484 *S. hasimotoi* NOMURA, 1937

- Type locality: Zushi, eastern Sagami bay, central Honshū.
- Distribution: Sagami bay; Japan Sea (Sado island; off Tajima, Hyōgo prefecture).

G4485 *S. kesenensis* NOMURA, 1938

- Type locality: Hanagai, Hirota village, Kesen district, Iwate prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 41° N.' (KURODA & HABE, 1952-a).

G4486 *S. lendix* (A. ADAMS, 1863-a)

- Type locality: Yobuko, Saga prefecture, northern Kyūshū.
- Distribution: 'Pacific coast at 33° N.' (KURODA & HABE, 1952-a); type locality.
- Original genus: *Styloptygma*.

G4487 *S. lepidula* A. ADAMS, 1860-h

- Type locality: Tsushima, western Japan Sea; 16 fms.
- Distribution: 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a).

G4488 *S. longiaperturata* NOMURA, 1938

- Type locality: Kamakura, eastern Sagami bay, central Honshū.
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

G4489 *S. modica* (SOWERBY II, 1865 in 1842-87)

- Type locality: 'Japan'.
- Distribution: Sagami bay.
- Original genus: *Pyra*.

G4490 *S. pistillum* A. ADAMS, 1863-a

- Type locality: Yobuko, Saga prefecture, northern Kyūshū.
- Distribution: 'Pacific coast at 33° N.' (KURODA & HABE, 1952-a); type locality.

G4491 *S. pupina* A. ADAMS, 1860-h

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: 'Pacific coast at 34° N., Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).

G4492 *S. pyramidalis* A. ADAMS, 1860-h

- Type locality: Tsushima, western Japan Sea; 16 fms.
- Distribution: 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a).

G4493 *S. serotina* **A. ADAMS, 1863-a**

Yase-kuchikire

- Type locality: 'Takano-Sima' (Takanoshima, southern Bōsō peninsula, Chiba prefecture).
- Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay TSUCHIDA & HORI, 1992) and southwards, P9-P5, Seto inland sea, Japan Sea (Noto peninsula, J2-J1), EC5.
- Habitat: intertidal to 30 m., sandy mud.

G4494 *S. siogamensis* **NOMURA, 1936**

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

G4495 *S. (S.) solidula* (**DUNKER, 1860**)

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: 'Pacific coast, 33°-35° N.' (KURODA & HABE, 1952-a); type locality.
- Original genus: *Obeliscus*.

G4496 *S. striatula* (**A. ADAMS in H. & A. ADAMS, 1853**)

- Type locality: 'Feejee' (Fiji) islands.
- Distribution: 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a); Fiji.
- Original genus: *Obeliscus*.

G4497 *S. subuliformis* (**A. ADAMS, 1863-a**)

- Type locality: Tsushima, western Japan Sea; 30 fms.
- Distribution: 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a).
- Original genus: *Styloptygma*.

G4498 *S. susakiensis* **NOMURA, 1939-b**

- Type locality: Chichijima, Ogasawara islands.
- Distribution: 'Pacific coast at 27° N.' (KURODA & HABE, 1952-a); Ogasawara islands.

G4499 *S. take* **NOMURA, 1938**

- Type locality: Kamakura, eastern Sagami bay, central Honshū.
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

G4500 *S. teretiuscula* **A. ADAMS, 1860-h**

- Type locality: Tsushima, western Japan Sea; 16 fms.
- Distribution: 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a).

G4501 *S. vitrea* **A. ADAMS, 1860-h**

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: 'Pacific coast, 34°-35° N., Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).

G4502 *S. zona* **NOMURA, 1937**

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: recorded only from type locality.

□ Genus *Iphiana* **DALL & BARTSCH, 1904**

Type species: *Odostomia densistriata* GARRETT, 1873 (o. d.)

G4503 *I. tenuisculpta* (**LISCHKE, 1872 in 1868-73**)

Nunome-hoso-kuchikire

- Type locality: 'Bucht von Jedo und zwar von Yokohama bis hinaus zur Insel Eno-Sima' (Tōkyō bay, specifically from Yokohama to Enoshima).
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5.
- Habitat: 10-30 m., sandy mud.
- Original genus: *Obeliscus*. LISCHKE notes later in the text that this species belongs in *Symnola*.

G4504 *I. mira* (**YOKOYAMA, 1922**)

Mira-nunome-kuchikire

- Type locality: Shitō, Ichihara City, Chiba prefecture, central Honshū (fossil).
- Distribution: Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967), 'Pacific side at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Pyramidella* (*Iphiana*).

□ Genus *Stylopsis* **A. ADAMS, 1860-c**

Type species: *Stylopsis typica* A. ADAMS, 1860 (o. d.)

G4505 *S. typica* **A. ADAMS, 1860-c**

- Type locality: Korea strait.
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

G4506 *S. sulcata* **A. ADAMS, 1861-e**

- Type locality: 'Sea of Okhotsk, 17 fms'.
- Distribution: 'Pacific coast at 50° N.' (KURODA & HABE, 1952-a).

□ Genus *Colsyrnola* **IREDALE, 1929**

Type species: *Colsyrnola sericea* IREDALE, 1929 (o. d.)

G4507 *C. brunnea* (**A. ADAMS in H. & A. ADAMS, 1853**)

(= *Obeliscus buxeus* GOULD, 1861 in 1859-61; *Pyramidella fulva* SOWERBY, 1865)

Cha-iro-kuchikire

- Type locality: 'O-Sima' (probably Kii-Ōshima, Wakayama prefecture).
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5.
- Habitat: 5-30 m., sandy mud.
- Original genus: *Obeliscus*.

G4508 *S. (C.) ornata* (**GOULD, 1861 in 1859-61**)



( = *Pyramidella denticulata* SOWERBY II, 1865)

Kizamime-kuchikire

- Type locality: 'China Sea'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, East China Sea; South China Sea.
- Habitat: 20-200 m., fine sand.
- Original genus: *Obeliscus*.

□ Genus *Styloptygma* A. ADAMS, 1860-c

Type species: *Monotptygma stylina* A. ADAMS, 1853 (o. d.)

G4509 *St. acuminata* (GOULD, 1861 in 1859-61)

- Type locality: 'Ousima' (Amami Ōshima).
- Distribution: 'Pacific coast at 39° N.' (KURODA & HABE, 1952-a).
- Original genus: *Monptygma*.

G4510 *St. hataisinkishii* NOMURA, 1938

Tsumami-kurimushi-kuchikire

- Type locality: Asamushi, Mutsu bay, Aomori prefecture, northern Honshū.
- Distribution: Mutsu bay, Seto inland sea (Onoda, Yamaguchi prefecture).
- Original genus: *Syrnola*.

G4511 *St. jaculum* (MELVILL & STANDEN, 1896)

Kesho-kurimushi-kuchikire

- Type locality: Lifu and Uvea, Loyalty islands, New Caledonia
- Distribution: Ogasawara islands (FUKUDA, 1995); New Caledonia.
- Original genus: *Syrnola*.

G4512 *St. terebroides* KURODA & KAWAMOTO in KAWAMOTO & TANABE, 1956

Takenoko-kurimushi-kuchikire

- Type locality: near Yanai City, Yamaguchi prefecture (western Seto inland sea).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, Seto inland sea, EC5.
- Habitat: intertidal to 30 m., sandy mud.

G4513 *St. titizimana* (NOMURA, 1939-b)

- Type locality: Chichijima, Ogasawara islands.
- Distribution: 'Pacific coast at 27° N.' (KURODA & HABE, 1952-a); Ogasawara islands.
- Original genus: *Syrnola*.

G4514 *St. lutea* (GARRETT, 1872)

Rō-iro-kurimushi-kuchikire

- Type locality: 'Viti islands' (Fiji).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, western Pacific.
- Habitat: intertidal to 20 m., sandy mud.

- Original genus: *Odostomia*.

G4515 *St. queenslandica* (LASERON, 1959)

Somewake-kuchikire-modoki

- Type locality: Queensland, Australia.
- Distribution: Okinawa island (Makiminato, Naha City UOZUMI, 1976); Australia.
- Original genus: *Evalea*.

G4516 *St. taeniatum* A. ADAMS, 1863-a

( = *Pyramidella lischkei* DALL & BARTSCH, 1906)

Suji-iri-kurimushi-kuchikire

- Type locality: 'Takano-Sima' (Takanoshima, southern Bōsō peninsula, Chiba prefecture).
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (western Hokkaidō HORI & IIZUMI, 1997, J6-J1), EC5; Indonesia.
- Habitat: intertidal to 30 m., sandy mud.

Notes: the specimen (BMNH 1874.5.19.18) selected as the lectotype by TOMLIN does not belong to this species.

G4517 *St. onagawaensis* (NOMURA, 1938)

- Type locality: Enoshima, Onagawa village, Oshika district, Miyagi prefecture, northeastern Honshū.
- Distribution: northeastern Honshū (Miyako bay; Onagawa village); Suruga bay.
- Original genus: *Syrnola*.

G4518 *St. cereum* A. ADAMS, 1863-a

- Type locality: 'Takano-Sima' (Takanoshima, southern Bōsō peninsula, Chiba prefecture).
- Distribution: 'Pacific coast, 34°-35° N., Japan Sea coast at 36° N.' (KURODA & HABE, 1952-a).

G4519 *St. pupiformis* (A. ADAMS, 1860-c)

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Rissoa* (*Goniostoma*).

G4520 *St. gibbum* A. ADAMS, 1863-a

- Type locality: 'O-Sima; Tanabe' (Kii-Ōshima, Wakayama prefecture, central Honshū).
- Distribution: 'Pacific coast, 33°-35° N.' (KURODA & HABE, 1952-a).

G4521 *St. larvula* A. ADAMS, 1863-a

- Type locality: 'O-Sima; Tanabe' (Kii-Ōshima, Wakayama prefecture, central Honshū).
- Distribution: 'Pacific coast at 33° N.' (KURODA & HABE, 1952-a).

□ Genus *Agatha* A. ADAMS, 1860

Type species: *Agatha virgo* A. ADAMS, 1860 (mt.) (= *Amathis* A. ADAMS, 1861)

G4522 *A. virgo* A. ADAMS, 1860-i

Migaki-kuchikire

- Type locality: Korea strait; 46 fms.
- Distribution: southern Hokkaidō and southwards, P10-P5, Seto inland sea, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5.
- Habitat: 10-30 m., sandy mud.

G4523 *A. lepidula* **HABE, 1961-a**

Obi-migaki-kuchikire

- Type locality: Tomioka bay, Amakusa, western Kyūshū; 10-20 m., sandy mud.
- Distribution: northern and western Kyūshū (Fukuoka prefecture to Amakusa).
- Habitat: 10-30 m., sandy mud.

G4524 *A. brevis* **YOKOYAMA, 1922**

Hoso-migaki-kuchikire

- Type locality: Ōji, Kita-ku, Tōkyō City (fossil).
- Distribution: Miyagi prefecture (off Ayukawa) and southwards, off Chōshi (Chiba prefecture, central Honshū), P8-P5, western Kyūshū.
- Habitat: 10-30 m., sandy mud.

G4525 *A. placida* **NOMURA, 1936**

• Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.

- Distribution: northeastern Honshū (off Suzumeshima, Ōtsuchi bay TSUCHIDA & HORI, 1992; Shiogama bay).

G4526 *A. amabilis* **NOMURA, 1936**

Maru-migaki-kuchikire

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: western Seto inland sea (TSUCHIDA, HORI & MITOKI, 1991); 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

G4527 *A. infrequens* **NOMURA, 1937**

• Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.

- Distribution: northeastern Honshū (off Suzumeshima, Ōtsuchi bay; 20 m. TSUCHIDA & HORI, 1992), Shiogama bay.

□ Genus *Turbonilla* **RISSO, 1826**

Type species: *Turbonilla costulata* RISSO, 1826 (s. d. HERRMANNSEN, 1852)

G4528 *T. actopora* **DALL & BARTSCH, 1906**

Nagare-une-itokake-giri

- Type locality: 'Japan' (specimen in Berlin Museum).
- Distribution: Japan Sea (Sado island and southwards, J3-J1), Seto inland sea (Iyo-nada; Suō-Ōshima; off Yanai, Yamaguchi prefecture).
- Habitat: 10-100 m., sandy mud.

G4529 *T. corgani* **OKUTANI, 1968**

(= *T. punicea* OKUTANI, 1964-b non DALL, 1884)

- Type locality: 'Sōyō-Maru' sta. 59, Sagami bay, central Honshū: 35 05.35' N., 139 18.65' E., 550 m.

- Distribution: central Honshū (off Miyake island, 1080-1205 m. OKUTANI, 1968; Sagami bay; Enshū-nada, 620 m. OKUTANI, 1964-b).

- Habitat: 500-800 m., sand.

G4530 *T. orientica* **CORGAN, 1970**

(= *T. albella* A. ADAMS, 1861 non LOVÉN, 1846)

- Type locality: 'Ka-la-hai, Shan-tung, in shell sand' (Shandong province, China) and 'Hulu-Shan bay, Gulf of Lian-tung, 4 fms'.
- Distribution: 'Japan?' (KURODA & HABE, 1952-a).

G4531 *T. alta* **CLESSIN, 1902 in 1899-1902**

• Type locality: 'Nagasaki' (ex Dunker).

- Distribution: 'Pacific side?' (KURODA & HABE, 1952-a).

G4532 *T. bincta* **A. ADAMS, 1860-i**

• Type locality: Tsushima, western Japan Sea; 16 fms.

- Distribution: 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a).

G4533 *T. cerina* **A. ADAMS, 1861-c**

• Type locality: 'Gulf of Pe-chili, 5 fms' (Bo-hai or Gulf of Chihli, China).

- Distribution: 'Pacific side?' and 'Korean coast at 36° N.' (KURODA & HABE, 1952-a).

G4534 *T. cincta* **A. ADAMS, 1860-i**

• Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.

- Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).

G4535 *T. commoda* **A. ADAMS, 1860-i**

• Type locality: Tsushima, western Japan Sea; 16 fms.

- Distribution: 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a).

G4536 *T. compta* **A. ADAMS, 1861-c**

• Type locality: Hulu-shan bay (China); 4 fms.

- Distribution: 'Pacific side?' and 'western Korean coast at 36° N.' (KURODA & HABE, 1952-a).

G4537 *T. debilis* **A. ADAMS, 1860-i**

• Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.

- Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).

G4538 *T. edoensis* **YOKOYAMA, 1927**

Edo-itokake-giri

- Type locality: Shiba-kuruma-cho, Minato-ku, Tōkyō City (fossil).
- Distribution: Japan Sea (Hagi City, Yamaguchi prefecture), northern Kyūshū (Genkai-nada).

G4539 *T. effusa* **(GOULD, 1861 in 1859-61)**

- Type locality: 'Loo Choo' (Okinawa).
  - Distribution: 'Pacific coast at 26° N.' (KURODA & HABE, 1952-a).
  - Original genus: *Dunkeria*.
- G4540 *T. fragilis* A. ADAMS, 1860-i
- Type locality: Tsushima, western Japan Sea; 16 fms.
  - Distribution: 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a).
- G4541 *T. hasimotoi* NOMURA, 1937
- Midare-une-itokake-giri
- Type locality: Zushi, eastern Sagami bay, central Honshū.
  - Distribution: Sagami bay, Japan Sea (off Hagi City, Yamaguchi prefecture).
- G4542 *T. metulina* A. ADAMS, 1860-i
- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
  - Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).
- G4543 *T. modica* A. ADAMS, 1860-i
- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
  - Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).
- G4544 *T. munda* A. ADAMS, 1860-i
- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
  - Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).
- G4545 *T. nitida* A. ADAMS, 1860-i
- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
  - Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).
- G4546 *T. perfecta* A. ADAMS, 1860-i
- Type locality: 'Port Hamilton' (Kyobunto island, near Gehaku lighthouse, southern Korea); 7 fms., and 'Korea strait near Mino-Sima' (Mishima, Japan Sea); 63 fms.
  - Distribution: 'Pacific coast at 34° N., Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).
- G4547 *T. scaliola* A. ADAMS, 1860-i
- Type locality: Korea strait; 46 fms.
  - Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
- G4548 *T. scitula* A. ADAMS, 1861-c
- Type locality: Gulf of Pe-chili (Bo-hai or Gulf of Chihli, China); 5 fms.
  - Distribution: 'Pacific side?' and 'western Korean coast at 36° N.' (KURODA & HABE, 1952-a).
- G4549 *T. sculptilis* A. ADAMS, 1860
- Type locality: Tsushima, western Japan Sea; 16 fms.
  - Distribution: 'Pacific coast at 33° N., Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).

- G4550 *T. teganumana* YOKOYAMA, 1922
- Teganuma-itokake-giri
- Type locality: Tega, Shonan village, Chiba prefecture, central Honshū (fossil).
  - Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
- G4551 *T. venustula* A. ADAMS, 1860-i
- Type locality: Chosan harbour (Korea); 6 fms.
  - Distribution: 'Pacific side?' and 'western Korean coast at 39° N.' (KURODA & HABE, 1952-a).
- Genus *Chemnitzia* D'ORBIGNY, 1839
- Type species: *Melania campanellae* PHILIPPI, 1836 (mt.)
- G4552 *C. abseida* (DALL & BARTSCH, 1906)
- Naga-itokake-giri
- Type locality: 'Japan' (specimen in Berlin Museum).
  - Distribution: northeastern Honshū (Kesen-numa), P9-P5, Seto inland sea, Japan Sea (off northern Yamaguchi prefecture, J1), EC5.
  - Habitat: 10-60 m., sandy mud.
  - Original genus: *Turbonilla* (*Chemnitzia*).
- G4553 *C. acosmia* DALL & BARTSCH, 1906
- Type locality: 'Japan' (specimen in Berlin Museum).
  - Distribution: 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a).
  - Original genus: *Turbonilla* (*Chemnitzia*).
- G4554 *C. admira* (NOMURA, 1937)
- Type locality: Zushi, eastern Sagami bay, central Honshū.
  - Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
  - Original genus: *Turbonilla*.
- G4555 *C. approximata* (DALL & BARTSCH, 1906)
- Niyori-itokake-giri
- Type locality: 'Japan' (specimen in Berlin Museum).
  - Distribution: Miyagi prefecture (Miyako bay) and southwards, P9-P5, Seto inland sea, Japan Sea (northern Yamaguchi prefecture, J1), EC5.
  - Habitat: 10-60 m., sandy mud.
  - Original genus: *Turbonilla* (*Chemnitzia*).
- G4556 *C. arayai* (NOMURA, 1936)
- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
  - Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
  - Original genus: *Turbonilla*.
- G4557 *C. arcuata* (NOMURA, 1936)
- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
  - Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

- Original genus: *Turbonilla*.

G4558 *C. basicordata* (NOMURA, 1936)

Sokosuji-itokake-giri

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla*.

G4559 *C. candida* A. ADAMS, 1855-b

- Type locality: 'Japan?' (Cumming collection).
- Distribution: 'Pacific coast at 34° N., Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).

G4560 *C. cara* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla*.

G4561 *C. clessiniana* (NOMURA, 1938)

- Type locality: Kamakura, eastern Sagami bay, central Honshū.
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla*.

G4562 *C. crassa* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla*.

G4563 *C. cura* (NOMURA, 1937)

- Type locality: Zushi, eastern Sagami bay, central Honshū.
- Distribution: Sagami bay, Seto inland sea (Iyo-nada; Bingo-nada; Hibiki-nada).
- Habitat: intertidal to 30 m., sandy mud.
- Original genus: *Turbonilla*.

G4564 *C. datei* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: northeastern Honshū, western Seto inland sea (Tokuyama City, Yamaguchi prefecture HORI & TSUCHIDA, 1989).
- Original genus: *Turbonilla*.

G4565 *C. dunkeri* (CLESSIN, 1902 in 1899-1902)

(= *Turbonilla pseudocura* NOMURA, 1938)

Dunkeru-itokake-giri

- Type locality: 'Japan, Nagasaki'.
- Distribution: Japan Sea (off northern Yamaguchi prefecture), western Seto inland sea (Iyo-nada), western

Kyūshū.

- Habitat: intertidal to 30 m., sandy mud.
- Original genus: *Turbonilla*.

G4566 *C. enamelicolor* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla*.

G4567 *C. eupellucida* (NOMURA, 1937)

Gurasu-itokake-giri

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: western Seto inland sea (TSUCHIDA, HORI & MITOKI, 1991), 'Pacific coast 35°-38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla*.

G4568 *C. hadakazimana* (NOMURA, 1938)

- Type locality: Hadakajima island, Aomori prefecture, northern Honshū.
- Distribution: 'Pacific coast at 41° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla*.

G4569 *C. hanagaiana* (NOMURA, 1938)

- Type locality: Hanagai, Hirota village, Kesen district, Iwate prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 39° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla*.

G4570 *C. imbana* (YOKOYAMA, 1922)

Inba-itokake-giri

- Type locality: Ōtake village, Inba district, Chiba prefecture, central Honshū (fossil).
- Distribution: 'Pacific coast, 35°-38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla* (*Chemnitzia*).

G4571 *C. infantula* (DALL & BARTSCH, 1906)

Chigo-itokake-giri

- Type locality: 'Japan' (specimen in Berlin Museum).
- Distribution: 'Pacific coast at 38° N., Japan Sea coast at 36° N.' (KURODA & HABE, 1952-a); Palau (Koror island), by sand pump HORI, 1995).
- Original genus: *Turbonilla* (*Chemnitzia*).

G4572 *C. infelix* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

G4573 *C. kamakurensis* (NOMURA, 1938)

- Type locality: Kamakura, eastern Sagami bay, central Honshū.

- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

- Original genus: *Turbonilla*.

G4574 *C. kanagawana* (NOMURA, 1938)

- Type locality: Sagami bay, central Honshū.

- Distribution: Sagami bay, Ōsaka bay, Japan Sea (Wakasa bay).

- Habitat: 50-200 m.

- Original genus: *Turbonilla*.

G4575 *C. keisukeana* (YOKOYAMA, 1927)

Keisuke-itokake-giri

- Type locality: Ōji, Kita-ku, Tōkyō City (fossil).

- Distribution: northeastern Honshū (Iwate prefecture) (off Suzume island, Ōtsuchi bay; 20 m. TSUCHIDA & HORI, 1992).

- Original genus: *Turbonilla* (*Chemnitzia*).

G4576 *C. kidoensis* YOKOYAMA, 1922

Kido-itokake-giri

- Type locality: Taga, Shonan village, Chiba prefecture, central Honshū (fossil).

- Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay), Sagami bay (KURODA *et al.*, 1971), Japan Sea (west off Sado id; 147-156 m., sand and gravel K. ITŌ, 1989).

G4577 *C. kesennumana* (NOMURA, 1938)

- Type locality: Kesen-numa bay, Miyagi prefecture, northeastern Honshū.

- Distribution: 'Pacific coast at 39° N.' (KURODA & HABE, 1952-a).

- Original genus: *Turbonilla*.

G4578 *C. kugyoi* (NOMURA, 1938)

- Type locality: Kamakura, eastern Sagami bay, central Honshū.

- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

- Original genus: *Turbonilla*.

G4579 *C. laticonica* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.

- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

- Original genus: *Turbonilla*.

G4580 *C. lucina* (NOMURA, 1938)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.

- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

- Original genus: *Turbonilla*.

G4581 *C. mala* (NOMURA, 1937)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.

- Distribution: northeastern Honshū (off Naminosuke island, Ōtsuchi bay; 52 m. TSUCHIDA & HORI, 1992).

- Original genus: *Turbonilla*.

G4582 *C. masamunei* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.

- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

- Original genus: *Turbonilla*.

G4583 *C. matsushimensis* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.

- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

- Original genus: *Turbonilla*.

G4584 *C. mira* (NOMURA, 1937)

- Type locality: Zushi, eastern Sagami bay, central Honshū.

- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

- Original genus: *Turbonilla*.

G4585 *C. mollita* (NOMURA, 1937)

- Type locality: Zushi, eastern Sagami bay, central Honshū.

- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

- Original genus: *Turbonilla*.

G4586 *C. multigyra* (DUNKER, 1882)

Shiro-itokake-giri

- Type locality: no specific locality given; 'Japan' from book title.

- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Seto inland sea, Japan Sea (Sado island, J3-J1), EC5.

- Habitat: 10-150 m., sandy mud.

- Original genus: *Turbonilla*.

G4587 *C. nata* (NOMURA, 1938)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.

- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

- Original genus: *Turbonilla*.

G4588 *C. nigricolor* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.

- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

- Original genus: *Turbonilla*.

G4589 *C. nippona* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla*.

G4590 *C. nonnota* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla*.

G4591 *C. orthoplicatulata* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla*.

G4592 *C. osyuensis* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla*.

G4593 *C. otukai* (NOMURA, 1938)

- Type locality: Kamakura, eastern Sagami bay, central Honshū.
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla*.

G4594 *C. parlucidula* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla*.

G4595 *C. parvitesta* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla*.

G4596 *C. pauper* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla*.

G4597 *C. paupercula* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla*.

G4598 *C. pseudapproximata* (NOMURA, 1936)

- Type locality: Kesen-numa bay, Miyagi prefecture, northeastern Honshū.
- Distribution: northeastern Honshū (Iwate prefecture) (off Suzume island, 20 m.; off Naminosuke island, 52 m.) and southwards, Miyagi prefecture (Kesen-numa), Japan Sea (Gentatsu-se bank off Fukui prefecture).
- Original genus: *Turbonilla*.

G4599 *C. pseudomala* (NOMURA, 1938)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 39° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla*.

G4600 *C. pseudomultigyrata* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla*.

G4601 *C. punctiperipherata* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla*.

G4602 *C. raritans* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla*.

G4603 *C. ridiculosa* (NOMURA, 1937)

- Type locality: Zushi, eastern Sagami bay, central Honshū.
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla*.

G4604 *C. rikuzenosimensis* (NOMURA, 1938)

- Type locality: off Enoshima, Kesen-numa bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 39° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla*.

G4605 *C. siogamensis* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla*.

G4606 *C. sitioi* NOMURA, 1936

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla*.

G4607 *C. solidissima* NOMURA, 1936

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla*.

G4608 *C. sordida* NOMURA, 1936

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla*.

G4609 *C. supramirabilis* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast, 35°-38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla*.

G4610 *C. tikkoensis* NOMURA, 1936

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla*.

G4611 *C. tonbensis* (NOMURA, 1939)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: northeastern Honshū (Iwate prefecture) (off Suzume island, Ōtsuchi bay; 20 m. TSUCHIDA & HORI, 1992), Miyagi prefecture (Shiogama bay).
- Original genus: *Turbonilla*.

G4612 *C. varicosa* (A. ADAMS, 1853 in H. & A. ADAMS, 1853-58)

- Type locality: 'Eastern Sea'.
- Distribution: 'Pacific coast at 26° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla*.

G4613 *C. zatoi* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla*.

□ Genus *Pyrgiscus* PHILIPPI, 1841

Type species: *Melania rufa* PHILIPPI, 1836 (s. d. DALL & BARTSCH in ARNOLD, 1903)  
(= *Pyrgostelis* MONTEROSATO, 1884; *Orthostelis* AGASSIZ, 1843 *emen. pro* *Orthostelis* ARADAS & MAGGIORE, 1841)

G4614 *P. mumia* (A. ADAMS, 1861)

- Habutae-itokake-giri
- Type locality: 'Port Hamilton' (Kyobunto island, near Gehaku lighthouse, southern Korea); 7 fms.
  - Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (northern Yamaguchi prefecture, J1), EC5; southern Korea.
  - Habitat: 10-100 m., sandy mud.
  - Original genus: *Chrysallida*.

G4615 *P. bisculpta* (NOMURA, 1937)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla* (*Pyrgiscus*).

G4616 *P. bona* (NOMURA, 1937)

- Type locality: Zushi, eastern Sagami bay, central Honshū.
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla* (*Pyrgiscus*).

G4617 *P. hataiana* (NOMURA, 1937)

- Beni-shishū-itokake-giri
- Type locality: Zushi, eastern Sagami bay, central Honshū.
  - Distribution: Seto inland sea (Iwakuni, western Hiroshima bay TSUCHIDA & HORI, 1990), 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
  - Original genus: *Turbonilla* (*Pyrgiscus*).

G4618 *P. miyakoensis* (NOMURA, 1939-b)

- Type locality: 2.5 miles east of Miyako village, Ōhira district, Iwate prefecture, northeastern Honshū; 100 m.
- Distribution: off Iwate prefecture (Miyako bay; Ōtsuchi bay TSUCHIDA & HORI, 1992).
- Habitat: 50-150 m., sandy mud.
- Original genus: *Turbonilla* (*Pyrgiscus*).

G4619 *P. optima* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.

- Distribution: 'Pacific coast, 38-41° N.' (KURODA & HABE, 1952-a).

- Original genus: *Turbonilla* (*Pyrgiscus*).

G4620 *P. pacifica* (YOKOYAMA, 1922)

Taiheiyo-itokake-giri

- Type locality: Shitō, Ichihara City, Chiba prefecture, central Honshū (fossil).

- Distribution: northeastern Honshū (Miyako bay; Tomari, Suesaki village; Onagawa village, Enoshima; off Ayukawa); Japan Sea (Sado island).

- Habitat: subtidal to 30 m., sandy mud.

- Original genus: *Turbonilla* (*Strioturbonilla*).

G4621 *P. plebeia* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.

- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

- Original genus: *Turbonilla* (*Pyrgiscus*).

G4622 *P. tateyamaensis* (NOMURA, 1938)

- Type locality: Tateyama, southern Bōsō peninsula, central Honshū (fossil).

- Distribution: western Seto inland sea (TSUCHIDA, HORI & MITOKI, 1991); 'Pacific side?' (KURODA & HABE, 1952-a).

- Original genus: *Turbonilla* (*Pyrgiscus*).

□ Genus *Pyrgiscilla* LAWS, 1937

Type species: *Turbonilla* (*Strioturbonilla*) *chattonensis* MARWICK, 1929 (s. d. LAWS, 1937)

G4623 *Pyrgiscilla amicitia* (NOMURA, 1936)

Mijin-tokusa-itokake-giri

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.

- Distribution: northeastern Honshū (Iwate prefecture) (off Naminosuke, Ōtsuchi bay; 52 m. TSUCHIDA & HORI, 1992), Shiogama bay.

- Original genus: *Turbonilla* (*Pyrgiscus*).

G4624 *Pyrgiscilla boninensis* (NOMURA, 1939-b)

- Type locality: Chichijima, Ogasawara islands.

- Distribution: 'Pacific coast at 27° N.' (KURODA & HABE, 1952-a); Ogasawara islands.

- Original genus: *Turbonilla* (*Pyrgiscus*).

G4625 *Pyrgiscilla brevis* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.

- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

- Original genus: *Turbonilla* (*Pyrgiscus*).

G4626 *Pyrgiscilla gracilentia* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture,

northeastern Honshū.

- Distribution: western Seto inland sea (TSUCHIDA, HORI & MITOKI, 1991), 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

- Original genus: *Turbonilla* (*Pyrgiscus*).

G4627 *Pyrgiscilla kotorai* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.

- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

- Original genus: *Turbonilla* (*Pyrgiscus*).

G4628 *Pyrgiscilla kurodai* (NOMURA, 1936)

Kuroda-itokake-giri

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.

- Distribution: off Iwate prefecture, Miyagi prefecture (Shiogama bay).

- Original genus: *Turbonilla* (*Pyrgiscus*).

G4629 *Pyrgiscilla mabutii* (NOMURA, 1938)

- Type locality: Tenno-mae, Hirota village, Kesen district, Iwate prefecture, northeastern Honshū.

- Distribution: 'Pacific coast at 39° N.' (KURODA & HABE, 1952-a).

- Original genus: '*Turbonilla* (*Pyrgiscus*?)'.

G4630 *Pyrgiscilla miurana* (NOMURA, 1937)

- Type locality: Miura, eastern Sagami bay, central Honshū.

- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

- Original genus: *Turbonilla* (*Pyrgiscus*).

G4631 *Pyrgiscilla miyagiensis* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.

- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

- Original genus: *Turbonilla* (*Pyrgiscus*).

G4632 *Pyrgiscilla mormuloides* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.

- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

- Original genus: *Turbonilla* (*Pyrgiscus*).

G4633 *Pyrgiscilla mourazimana* (NOMURA, 1938)

- Type locality: Moura island, Asamushi, Aomori prefecture, northern Honshū.

- Distribution: 'Pacific coast at 41° N.' (KURODA & HABE, 1952-a).

- Original genus: *Turbonilla* (*Pyrgiscus*).

G4634 *Pyrgiscilla optiva* (NOMURA, 1937)

- Type locality: Zushi, eastern Sagami bay, central Honshū.



- Distribution: western Seto inland sea (TSUCHIDA, HORI & MITOKI, 1991), Ōsaka bay (KOJIMA, NISHIKAWA & OKAMURA, 1995); 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

- Original genus: *Turbonilla* (*Pyrgiscus*).

G4635 *Pyrgiscilla speciosa* (A. ADAMS, 1860-i)

Garasu-zaiku-itokake-giri

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: western Japan Sea (off Tsunoshima and Mishima Tsuchida & HORI, 1996; 'Japan Sea coast at 35° N.' KURODA & HABE, 1952-a)
- Original genus: *Turbonilla*.

G4636 *Pyrgiscilla umemotoi* (NOMURA, 1938)

- Type locality: Tobishima, Japan Sea off Yamagata prefecture, northern Honshū.

- Distribution: Tobishima; Miyagi prefecture (Shiogama bay).

- Original genus: *Turbonilla* (*Pyrgiscus*).

G4637 *Pyrgiscilla yoritomoi* (NOMURA, 1938)

Iso-itokake-giri

- Type locality: Kamakura, eastern Sagami bay, central Honshū.

- Distribution: Japan Sea (northern Yamaguchi prefecture HORI, 1996; western Hokkaidō HORI & IIZUMI, 1997), 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

- Original genus: *Turbonilla* (*Pyrgiscus*).

G4638 *Pyrgiscilla yoshisadai* (NOMURA, 1938)

- Type locality: Kamakura, eastern Sagami bay, central Honshū.

- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

- Original genus: *Turbonilla* (*Pyrgiscus*).

G4639 *Pyrgiscilla yotukurensis* (NOMURA, 1938)

- Type locality: Yotsukura, near Iwaki City, Fukushima prefecture, northeastern Honshū.

- Distribution: 'Pacific coast at 37° N.' (KURODA & HABE, 1952-a).

- Original genus: *Turbonilla* (*Pyrgiscus*).

G4640 *Pyrgiscilla zinboi* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.

- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

- Original genus: *Turbonilla* (*Pyrgiscus*).

□ Genus *Careliopsis* MÖRCH, 1875

Type species: *Monopygma (Careliopsis) styliformis* MÖRCH, 1875 (mt.)

G4641 *C. densistriata* (NOMURA, 1936-a)

- Type locality: Shiogama bay, Miyagi prefecture,

northeastern Honshū.

- Distribution: recorded only from type locality.

- Original genus: *Cingulina* (*Careliopsis*).

□ Genus *Derjuginella* HABE, 1958

Type species: *Stylopsis rufofasciata* E. A. SMITH, 1875 (mt.)

G4642 *D. rufofasciata* (E. A. SMITH, 1875)

Kin-suji-kuchikire

- Type locality: 'East of Yesso' (Hokkaidō): 42° 52' N., 144° 40' E., 48 fms. and 'Endermo Harbour' (Murooran, Uchiura bay, southern Hokkaidō): 42° 20' N., 141° 05' E., 4-7 fms.

- Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay, 110-152 m. Tsuchida & HORI, 1992) and northwards, P9-P10, Japan Sea (Wakasa bay, J2-J5), OP.

- Habitat: 10-50 m., sand.

- Original genus: *Stylopsis*.

□ Genus *Ptycheulimella* SACCO, 1892

Type species: *Tornatella pyramidata* DESHAYES, 1835 (s. d. DALL & BARTSCH, 1904)

G4643 *P. misella* (YOKOYAMA, 1922)

Mikazuki-itokake-giri

- Type locality: Ōtake, Yabu village, Inba district, Chiba prefecture, central Honshū (fossil).

- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (northern Yamaguchi prefecture HORI & Tsuchida, 1989; HORI, 1996, J1), EC5.

- Habitat: 10-60 m., sandy mud.

- Original genus: *Turbonilla* (*Ptycheulimella*).

G4644 *P. yabei* NOMURA, 1939-b

Akebono-kuchikire

- Type locality: Minami-Akita district, Akita prefecture, northern Honshū (fossil).

- Distribution: northeastern Honshū (Ōtsuchi bay, off Miyako City, 100 m. Tsuchida & HORI, 1992).

- Original genus: *Turbonilla* (*Ptycheulimella*).

G4645 *P. rikuzenica* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.

- Distribution: northeastern Honshū (Iwate prefecture) (Miyako bay), Miyagi prefecture (Shiogama bay).

- Original genus: *Turbonilla* (*Ptycheulimella*).

G4646 *P. eulimelloides* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.

- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

- Original genus: *Turbonilla* (*Ptycheulimella*).

G4647 *P. hemiplicata* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla* (*Ptycheulimella*).

G4648 *P. supramisella* (NOMURA, 1938)

- Type locality: Kamakura, eastern Sagami bay, central Honshū.
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla* (*Ptycheulimella*).

G4649 *P. syrnoiiformis* (NOMURA, 1938)

- Type locality: Kamakura, eastern Sagami bay, central Honshū.
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla* (*Ptycheulimella*).

□ Genus *Pyrgolampros* SACCO, 1892

Type species: *Turbonilla* (*Pyrgolampros*) *mioperplicatulus* SACCO, 1892 (o. d.)  
(= *Pyrgolampros* *sensu* COSSMANN, 1921 *err. pro -pros*)

G4650 *P. auricolor* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla* (*Pyrgiscus*).

G4651 *P. hiradoensis hiradoensis* (PILSBRY, 1904-b)

- Hoso-itokake-giri
- Type locality: 'Hirado, Hizen' (Hirado island, Nagasaki prefecture).
  - Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, Seto inland sea, Japan Sea (Sado island, J2-J1), EC5.
  - Habitat: 10-60 m., sandy mud.
  - Original genus: *Turbonilla*.

G4652 *P. hiradoensis badia* (PILSBRY, 1904-b)

- Cha-iro-hoso-itokake-giri
- Type locality: 'Hirado, Hizen' (Hirado island, Nagasaki prefecture).
  - Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, Seto inland sea, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5.
  - Habitat: 10-60 m., sandy mud.
  - Original genus: *Turbonilla*.

G4653 *P. planicostata* (YOKOYAMA, 1922)

- Hira-itokake-giri
- Type locality: Shusui, Inba district, Chiba prefecture, central Honshū (fossil).

- Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay), P5, Seto inland sea, Japan Sea (Sado island), EC5.
- Habitat: 10-60 m., sandy mud.
- Original genus: *Turbonilla* (*Ptycheulimella*).

G4654 *P. planitesta* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla* (*Pyrgiscus*).

G4655 *P. subplanicostata* (YOKOYAMA, 1927)

- Niyori-hira-une-itokake-giri
- Type locality: Ōji, Kita-ku, Tōkyō City (fossil).
  - Distribution: 'Pacific coast, 34-35° N.' (KURODA & HABE, 1952-a).
  - Original genus: *Turbonilla* (*Pyrgolampros*).

G4656 *P. fulvizonata* (NOMURA, 1938)

- Futa-obi-itokake-giri
- Type locality: Kamakura, eastern Sagami bay, central Honshū.
  - Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay TSUCHIDA & HORI, 1992), P9-P5; northern Yamaguchi prefecture and southwards, J1, EC5.
  - Habitat: 10-100 m., sandy mud.
  - Original genus: *Turbonilla* (*Pyrgiscus*).

□ Genus *Paramormula* NOMURA, 1939-b

Type species: *Turbonilla varicosa* DUNKER, 1860 (o. d.);  
= *Chemnitzia cumingii* CARPENTER, 1856)

G4657 *Pa. aulica* (DALL & BARTSCH, 1906)

- (= *Turbonilla varicosa* DUNKER, 1860 *non* FORBES, 1844)
- Cha-iro-itokake-giri
- Type locality: Dejima, Nagasaki City, western Kyūshū.
  - Distribution: northeastern Honshū (Tomari, Suesaki village, Iwate prefecture), P9-P5, Ogasawara islands (FUKUDA, 1994-a), Seto inland sea, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5; Palau islands.
  - Habitat: 10-60 m., sandy mud.
  - Original genus: *Turbonilla* (*Mormula*).

G4658 *Pa. scrobiculata* (YOKOYAMA, 1922)

- (= *Turbonilla varicifera* PILSBRY, 1901 *non* TATE, 1898)
- Une-itokake-giri
- Type locality: Ōtake, Inba district, Chiba prefecture, central Honshū (fossil).
  - Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, Seto inland sea, Japan Sea (off Tajima, Hyōto prefecture K. ITŌ, 1967; J2-J1), EC5.

- Habitat: 10-100 m., sandy mud.
- Original genus: '*Turbonilla* (*Mormula?*)'.

G4659 *Pa. aspera* KURODA & HABE in KURODA *et al.*, 1971

Tokusa-itokake-giri

- Type locality: Sagami bay, central Honshū; 200 m.
- Distribution: off Chōshi (Chiba prefecture, central Honshū), Sagami bay.

G4660 *Pa. paucicostulata* (TOKUNAGA, 1906)

Futo-suji-itokake-giri

- Type locality: Shitō, Ichihara City, Chiba prefecture, central Honshū (fossil).
- Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay), northern Kyūshū (Hakata bay).
- Original genus: *Turbonilla*.

G4661 *Pa. semicolorata* (YOKOYAMA, 1927)

Somewake-itokake-giri

- Type locality: Shiba-kuruma-cho, Minato-ku, Tōkyō City (fossil).
- Distribution: Japan Sea (Wakasa bay; 50-300 m., sandy mud K. ITŌ, 1990).
- Original genus: *Turbonilla* (*Mormula*).

□ Genus *Pselliogyra* DALL & BARTSCH, 1909

Type species: *Turbonilla monocycla* A. ADAMS, 1860 (o. d.; = *Turbonilla pagodula* A. ADAMS, 1860)

G4662 *Ps. pagodula* (A. ADAMS, 1860-i)

(= *Turbonilla monocycla* A. ADAMS, 1860-i)

Maki-mizo-itokake-giri (= Tōgata-tatehida-giri)

- Type locality: 'Tabu-Sima' (Tobishima, Japan Sea off Yamagata prefecture).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Seto inland sea, Japan Sea (Sado island, J3-J1), EC5.
- Habitat: 10-60 m., sandy mud.
- Original genus: *Parthenia*.

G4663 *Ps. sagamiana* (YOKOYAMA, 1922)

Sagami-maki-mizo-itokake-giri

- Type locality: Ōtake, Inba district, Chiba prefecture, central Honshū (fossil).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, (western Seto inland sea TSUCHIDA, HORI & MITOKI, 1991) Japan Sea (Sado island; J3-J1), EC5.
- Habitat: subtidal to 60 m., sandy mud.
- Original genus: *Turbonilla* (*Strioturbonilla*).

□ Genus *Dunkeria* CARPENTER, 1857

Type species: *Chemnitzia* (*Dunkeria*) *paucilirata* CARPENTER, 1857 (s. d. BUCQUOY *et al.*, 1898) (= *Pygisculus sensu* MONTEROSATO, 1884)

G4664 *D. candidissima* (DALL & BARTSCH, 1906)

(= *D. candida* A. ADAMS, 1861 *non* A. ADAMS, 1853)

Kagome-itokake-giri

- Type locality: 'Lo-shan-kow; Shan-tung (shell sand)' (Shandong province, China).
- Distribution: Seto inland sea, southern Shikoku, P5, western Kyūshū; China.
- Habitat: 10-60 m., sandy mud.
- Original genus: *Turbonilla* (*Pyrgisculus*).

4665 *D. deae* (NOMURA, 1937)

- Type locality: Zushi, eastern Sagami bay, central Honshū.
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla* (*Pyrgiscus*).

G4666 *D. shigeyasui* (YOKOYAMA, 1927)

Shigeyasu-itokake-giri

- Type locality: Dokan-yama, Tōkyō City (fossil).
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, western Kyūshū.
- Habitat: 10-60 m., sandy mud.
- Original genus: *Turbonilla* (*Pyrgiscus*).

G4667 *D. craticulata* A. ADAMS, 1861-a

(= *Dunkeria craculata* (*sic sensu* EKAWA, 1989)

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: 'Pacific coast at 33° N., Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).
- Note:** provisionally placed here; is possibly not a Pyramidellid (S. HORI, pers. comm.)

G4668 *D. dusiana* (NOMURA, 1937)

- Type locality: Zushi, eastern Sagami bay, central Honshū.
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla* (*Dunkeria*).

G4669 *D. tiganourana* (NOMURA, 1936)

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: western Seto inland sea (TSUCHIDA, HORI & MITOKI, 1991); 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a), type locality.
- Original genus: *Turbonilla* (*Dunkeria*).

G4670 *D. scabra* A. ADAMS, 1860-i

Yoko-ito-tsubo

- Type locality: Tsushima, western Japan Sea; 16 fms.
- Distribution: Kii peninsula and southwards, P5, Seto inland sea, western Kyūshū.
- Habitat: intertidal to 35 m., sandy mud.
- Note:** *D. scabra* is provisionally placed here; it possibly belongs in Epitoniidae. See BIELER (1995: 635).

□ Genus *Zaphella* LASERON, 1959

Type species: *Turbonilla tribulationis* HEDLEY, 1909 (o. d.)

G4672 *Z. ambulatia* (LASERON, 1951)

Rengeza-itokake-giri

- Type locality: Long Reef, New South Wales, Australia.
- Distribution: Ogasawara islands (FUKUDA, 1995)
- Original genus: *Chemnitzia*.

G4673 *Z. elegantula* (A. ADAMS, 1860-d)

Yūga-itokake-giri

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: western Seto inland sea (TSUCHIDA, HORI & MITOKI, 1991), western Japan Sea (off Mishima and Tsunoshima TSUCHIDA & HORI, 1996), 'Pacific coast at 34° N., Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Chrysallida*.

G4674 *Z. exilissima* (NOMURA, 1938)

Kata-hiji-itokake-giri

- Type locality: Hojo, Tateyama district, southern Bōsō peninsula, central Honshū.
- Distribution: Tateyama and southwards, P6-P5, Seto inland sea (Tokuyama City, Yamaguchi prefecture), Japan Sea (Hagi City, Yamaguchi prefecture HORI & TSUCHIDA, 1989).
- Original genus: *Turbonilla*.

□ Genus *Sulcoturbonilla* SACCO, 1892

Type species: *Tornatella turricula* EICHWALD, 1853 (mt.)

G4675 *S. ultralaeta* (NOMURA, 1936)

Kawari-itokake-giri

- Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: northeastern Honshū (Hirota village; Ōtsuchi bay; off Kinkazan island), Seto inland sea (Yanai City, Yamaguchi prefecture HORI & TSUCHIDA, 1989; western Seto inland sea TSUCHIDA, HORI & MITOKI, 1991), northern Japan Sea (Oshoro bay, western Hokkaidō HORI & IIZUMI, 1997).
- Habitat: 10-60 m., sandy mud.
- Original genus: *Turbonilla* (*Sulcoturbonilla*).

□ Genus *Lancea* PEASE, 1868

Type species: *Turbonilla elongata* PEASE, 1868 non KOENINCK, 1841 (mt.; = *Turbonilla* (*Lancellata*) *peasei* DALL & BARTSCH, 1904) (= *Lancellata* DALL & BARTSCH, 1904)

G4676 *La. bella* (DALL & BARTSCH, 1906)

Ō-chirimen-giri

- Type locality: 'Japan' (specimen in Berlin Museum).
- Distribution: Bōsō peninsula and southwards, P7-P5,

EC5, ECP4-ECP2.

- Habitat: 30-100 m., fine sand.
- Original genus: *Turbonilla* (*Lancellata*).

□ Genus *Mormula* A. ADAMS, 1864

Type species: *Mormula rissoina* A. ADAMS, 1863 (s. d. VERRILL & BUSH, 1900; = *Eulimella philippiana* DUNKER, 1860)

(= *Pyrgostylus* MONTEROSATO, 1884)

G4677 *M. philippiana* (DUNKER, 1860)

(= *M. rissoina* A. ADAMS, 1863; *Rissoina rex* PILSBRY, 1904; *Turbonilla* (*Pyrgiscus*) *validissima* NOMURA, 1937; *T. (P.) tobisimensis* NOMURA, 1938; *T. (P.) tobisimensis daibutu* NOMURA, 1938)

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2.
- Habitat: intertidal to 20 m., sand and gravel.
- Original genus: *Turbonilla*.

G4678 *M. hirasei* KURODA, 1960

(= *Mormula decussata* KURODA, 1928 non A. ADAMS, 1870; *Turbonilla hirasei* KURODA & HABE, 1952-a non *nud.*)

Ōshima-chōji-gai

- Type locality: Amami Ōshima.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2.
- Habitat: intertidal to 20 m., coarse sand and stones.

G4679 *M. aureocincta* KURODA & HABE in KURODA *et al.*, 1971

Kin-suji-habutae-chōji-gai

- Type locality: Sagami bay, central Honshū.
- Distribution: Bōsō peninsula and southwards, P7-P5, southwestern Shikoku (Okino-se bank, off Okinoshima TSUCHIDA, 1989), Japan Sea (off central Niigata prefecture; J3-J1), EC5.
- Habitat: 50-200 m., sand.

G4680 *M. pseudorex* (NOMURA, 1936)

- Type locality: Zushi, eastern Sagami bay, central Honshū.
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Turbonilla* (*Pyrgiscus*).

□ Genus *Rissosyrnola* NOMURA, 1939-b

Type species: '*Mormula aclis* A. ADAMS' (o. d.; = *Pyramidella aclis* A. ADAMS, 1853)

G4681 *R. aclis* (A. ADAMS, 1853-e)

Fuchi-nui-chōji-gai

- Type locality: 'Philippines'.
- Distribution: Amami islands and southwards, ECP3-

ECP2, P2; Philippines.

- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Pyramidella*.

□ Genus *Amamimormula* KURODA, 1928-c

Type species: *Turbonilla belonis* MELVILL & STANDEN, 1896 (mt.)

G4682 *A. belonis* (MELVILL & STANDEN, 1896)

Hari-chōji-gai

- Type locality: Loyalty Islands, New Caledonia.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, New Caledonia.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Turbonilla*.

□ Genus *Cingulina* A. ADAMS, 1860-i

Type species: *Cingulina circinata* A. ADAMS, 1860 (mt.)

G4683 *C. circinata* A. ADAMS, 1860-i

Itomaki-shiro-giri (= Momen-itokake-giri)

- Type locality: 'Awa-Sima (in shell sand)' (Awashima, off Niigata prefecture, Japan Sea) and 'Lo-shan-kow' (Laoshan? Shandong province, China), in shell sand.
- Distribution: off Chōshi (Chiba prefecture, central Honshū), P7-P5, Japan Sea (Awashima, J4-J1), EC5.
- Habitat: intertidal to 20 m., sandy mud.

G4684 *C. (C.) cingulata* (DUNKER, 1860)

(= *C. mutuwanensis* NOMURA, 1938)

Yoko-itokake-giri

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Seto inland sea, Japan Sea (western Hokkaidō HORI & IIZUMI, 1997; Sado island; northern Yamaguchi prefecture HORI, 1996), EC5.
- Habitat: intertidal to 60 m., sandy mud; parasitic on Polychaete worm *Cirriformia tentaculata*.
- Original genus: *Turbonilla*.

G4685 *C. laticingula* (DALL & BARTSCH, 1906)

Hiro-yoko-itokake-giri

- Type locality: 'Japan' (specimen in Berlin Museum).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture HORI, 1996; Wakasa bay, J2-J1), EC5.
- Habitat: intertidal to 20 m., sandy mud.
- Original genus: *Turbonilla* (*Cingulina*), as ssp. of *T. cingulata*.

G4686 *C. inamuragasakiensis* NOMURA, 1938

- Type locality: Kamakura, eastern Sagami bay, central Honshū.
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

G4687 *C. japonica* CLESSIN, 1902 in 1899-1902

- Type locality: 'Japan'.
- Distribution: 'Pacific side (?)' (KURODA & HABE, 1952-a).

G4688 *C. puncticingulata* NOMURA, 1938

Kizamime-itokake-giri

- Type locality: Kamakura, eastern Sagami bay, central Honshū.
- Distribution: Sagami bay.

□ Genus *Paracingulina* NOMURA, 1936

Type species: *Turbonilla triarata* PILSBRY, 1904 (o. d.) (= *Pseudocingulina* NOMURA, 1936)

G4689 *P. triarata* (PILSBRY, 1904-b)

(= *Cingulina* (*Paracingulina*) *biarata* NOMURA, 1937)

Misuji-yoko-itokake-giri (= Futa-suji-yoko-itokake-giri)

- Type locality: 'Hirado, Hizen' (Hirado island, Nagasaki prefecture, western Kyūshū).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5; China
- Habitat: intertidal to 150 m., sandy mud.
- Original genus: *Turbonilla*.

G4690 *P. terebra* (DUNKER, 1860)

Futo-yoko-itokake-giri (= Yoko-itokake-giri-damashi)

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture HORI, 1996; off Tajima, Hyōgo prefecture K. ITŌ, 1967; western Hokkaidō HORI & IIZUMI, 1997), EC5.
- Habitat: 5-20 m., sandy mud.
- Original genus: *Turbonilla*.

G4691 *P. quatericingulata* (NOMURA, 1938)

Yosuji-yoko-itokake-giri

- Type locality: Asamushi, Mutsu bay, Aomori prefecture, northern Honshū.
- Distribution: 'Pacific coast, 39°-41° N.' (KURODA & HABE, 1952-a).
- Original genus: *Cingulina*.

G4692 *P. onzikuensis* (NOMURA, 1938)

Onjuku-yoko-itokake-giri

- Type locality: Onjuku, Chiba prefecture, central Honshū.
- Distribution: 'Pacific coast, 29°-35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Cingulina*.

G4693 *P. inequicingulata* (NOMURA, 1938)

Adamuzu-yoko-itokake-giri

- Type locality: Asamushi, Mutsu bay, Aomori prefecture, northern Honshū.

- Distribution: Mutsu bay and southwards, P10-P9, Seto inland sea, Japan Sea (Oga peninsula, J3-J2).
- Habitat: intertidal to 50 m., sandy mud.
- Original genus: *Cingulina*.

□ Genus *Odostomella* BUCQUOY *et al.*, 1883

Type species: *Rissoa doliolum* PHILIPPI, 1844 (o. d.)

G4694 *O. rufolineata* (A. ADAMS, 1863-k)

Mikoto-kuchikire

- Type locality: Gotō islands, off western Kyūshū; 48 fms.
- Distribution: Izu islands (Zenu bank, 104-106 m. TSUCHIDA *et al.*, 1993), western Kyūshū, western Japan Sea (off Mishima and Tsunoshima TSUCHIDA & HORI, 1996).
- Original genus: *Chrysallida*.

□ Genus *Kleinella* A. ADAMS, 1860-b

Type species: *Kleinella cancellaris* A. ADAMS, 1860 (mt.)

G4695 *K. cancellaris* A. ADAMS, 1860-b

- Type locality: Korea strait; 63 fms.
- Distribution: Japan Sea (Wakasa bay and westwards, J2-J1).
- Habitat: 50-140 m.

G4696 *K. awajiensis* (NOMURA, 1939)

- Type locality: Awaji island, eastern Seto inland sea (Hyōgo prefecture).
- Distribution: known only from type locality.
- Original genus: *Menestho* (*Kleinella*).

G4697 *K. sulcata* A. ADAMS, 1862-c

Chirimen-kuchikire

- Type locality: 'Suwonada Sea' (Suō-nada, western Seto inland sea); 7 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, EC5.
- Habitat: 10-30 m., sandy mud.

□ Genus *Monotygmata* GRAY, 1847

Type species: *Monotygmata striata* GRAY, 1840 (mt.) (= *Monotygmata* A. ADAMS, 1851 *non* LEA, 1833; *Myonia* A. ADAMS, 1860 *non* DANA, 1847; *Actaeopyramis* FISCHER, 1885; *Adelactaeon* COSSMANN, 1895)

G4698 *M. eximia* (LISCHKE, 1872 in 1868-73)

Hime-gōna (= Kisu-gai; Maki-ginu)

- Type locality: 'Bucht von Jedo und zwar von Jokohama bis hinaus zur Insel Eno-Sima' (Tōkyō bay, specifically from Yokohama to Enoshima).
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5.
- Habitat: intertidal to 60 m., sandy mud.
- Original genus: *Monotygmata*.

G4699 *M. fulva* A. ADAMS, 1853-d

Dō-maru-hime-gōna

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5.
- Habitat: intertidal to 30 m., sand.
- Original genus: *Monotygmata*.

G4700 *M. lauta* (A. ADAMS, 1853-d)

Hoso-maki-ginu

- Type locality: Bolinao, Pangasinan province, Luzon, Philippines; 10 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (off central Niigata prefecture, J3-J1), EC5; Philippines.
- Habitat: intertidal to 140 m., sandy mud.
- Original genus: *Monotygmata*.

G4701 *M. pareximia* (NOMURA, 1936)

Arabori-hoso-maki-ginu

- Type locality: Shioyama bay, Miyagi prefecture, northeastern Honshū.
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (J1), northern Kyūshū, EC5.
- Habitat: 10-60 m., sandy mud.
- Original genus: *Actaeopyramis*.

**Notes:** Migaki-maki-ginu *Monotygmata puncticulata* GOULD, 1861 in 1859-61 (type locality: 'China Seas') has been provisionally recorded from the East China Sea (HABE, 1961: Chiribotan, vol. 12 (4): 85-87) but the present authors have been unable to confirm distribution of this species in Japan.

G4702 *M. amoena* (A. ADAMS, 1853-d)

- Type locality: Bolinao, Pangasinan province, Luzon, Philippines; 10 fms.
- Distribution: Mie prefecture (Owase, 20 m. MATSUMOTO, 1979), Seto inland sea; Philippines.
- Habitat: 10-60 m., sandy mud.
- Original genus: *Monotygmata*.

G4703 *M. caelata* (A. ADAMS, 1861-f)

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Monotygmata*.

G4704 *M. casta* (A. ADAMS, 1853-d)

- Type locality: 'China Seas'.
- Distribution: 'Pacific coast, 0°-26° N.' (KURODA & HABE, 1952-a).

G4705 *M. enosima* (CLESSIN, 1902 in 1899-1902)

- Type locality: 'Japan'
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

- Original genus: *Monoptygma*.

G4706 *M. punctigera* A. ADAMS, 1861-c

- Type locality: 'Gulf of Pe-chili' (Bo-hai or Gulf of Chihli, China), 5 fms; sandy mud.
- Distribution: 'Pacific coast at 33° N., Japan Sea coast at 36 N.' (KURODA & HABE, 1952-a).

□ Genus *Tropaeas* DALL & BARTSCH, 1904

Type species: *Pyramidella subulata* A. ADAMS, 1854 (o. d.)

( = *Elusa* A. ADAMS, 1861 non WALKER, 1858)

G4707 *T. subulata* (A. ADAMS in H. & A. ADAMS, 1853)

- Type locality: Sorsogon, Luzon, Philippines; 4 fms., coarse sand.
- Distribution: Kii peninsula and westwards, P5, EC5.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Pyramidella*.

G4708 *T. castaneus* (A. ADAMS, 1863-a)

Kuri-iro-hida-kuchikire

- Type locality: 'O-Sima' (probably Kii-Ōshima, Wakayama prefecture).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture HORI, 1996; off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5.
- Habitat: intertidal to 20 m., sandy mud.
- Original genus: *Elusa*.

G4709 *T. luteomaculosa* (NOMURA, 1938)

Itokake-hoso-kuchikire

- Type locality: Kamakura, eastern Sagami bay, central Honshū.
- Distribution: 'Pacific coast, 34°-35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Siogamaia*.

G4710 *T. strigatula* (A. ADAMS, 1863-a)

( = *T. strigulata sensu* TSUCHIDA & HORI, 1996 err.)

Ko-kizami-hida-kuchikire

- Type locality: Yobuko, Saga prefecture, northern Kyūshū.
- Distribution: eastern Kii peninsula (off Nagashima, Mie prefecture, 20 m. MATSUMOTO, 1979), Japan Sea (off Tsunoshima TSUCHIDA & HORI, 1996).
- Habitat: intertidal to 20 m., sandy mud.
- Original genus: *Elusa*.

G4711 *T. badia* (A. ADAMS, 1863-a)

- Type locality: 'Takano-Sima' (Takanoshima, southern Bōsō peninsula, Chiba prefecture).
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Elusa*.

G4712 *T. gracilis* (A. ADAMS in H. & A. ADAMS,

1853)

Miruku-hida-kuchikire

- Type locality: Loay, Bohol island, Philippines; in hard mud, 60 fms.
- Distribution: Japan Sea (Ōmi-jima off Nagato City, Yamaguchi prefecture); 'Pacific side, 14°?-33° N.' (KURODA & HABE, 1952-a).
- Original genus: *Pyramidella*.

□ Genus *Phasianema* S. WOOD, 1842

Type species: *Nerita costatum* BROCCCHI, 1814

G4713 *P. lirata* (A. ADAMS, 1860-f)

( = *Fussarus iwateanus* NOMURA & HATAI, 1935; *P. phycophyllum* GOLIKOV & KUSAKIN in GOLIKOV & SCARLATO, 1967)

Tsuto-kuchikire

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay TSUCHIDA & HORI, 1992), Miyagi prefecture, Kanagawa prefecture (Uruga), northern Japan Sea (western Hokkaidō HORI & IIZUMI, 1997); Primoriye region (Japan Sea coast of Russia).
- Original genus: *Isapis*.

G4714 *P. conoidea* (A. ADAMS, 1863-e)

- Type locality: 'Takano-Sima, in shell-sand' (Takanoshima, southern Bōsō peninsula, Chiba prefecture).
- Distribution: 'Japan Sea side at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Isapis*.

Family AMATHINIDAE PONDER, 1987

□ Genus *Amathina* GRAY, 1842

Type species: *Patella tricarinata* LINNAEUS, 1767 (s. d. GRAY, 1847)

G4715 *A. tricarinata* (LINNAEUS, 1767)

Iso-chidori-gai

- Type locality: none designated by Linnaeus; Kuroda, Habe & Ōyama (1971) give 'Sagami Bay (alive); Jōgashima WNW 2 km (60 m)' as the type locality, but without any formal note of designation.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: 10-50 m., sand; attached to bivalves, including *Atrina pectinata* (no. BXXXX) and *Ostrea densilamellosa* (no. BXXXX).
- Original genus: *Patella*.

□ Genus *Leucotina* A. ADAMS, 1860-c

Type species: *Leucotina nipponensis* A. ADAMS, 1860 ( = *L. diana* A. ADAMS, 1854) (Refs.: Hori & Tsuchida, 1995)

G4716 *L. diana* (A. ADAMS, 1854 in H. & A. ADAMS, 1853-58)

(= *L. nipponensis* A. ADAMS, 1860-c; *Odostomia gigantea* DUNKER, 1877)

Makimono-gai

- Type locality: 'Japan'.
- Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay HORI & TSUCHIDA, 1995); Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Niigata prefecture, J3-J1), EC5.
- Habitat: 10-300 m., sandy mud.
- Original genus: *Actaeon*.

G4717 *L. digitalis* (DALL & BARTSCH, 1906)

Sasakure-makimono-gai

- Type locality: 'Japan' (specimen in Berlin Museum).
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea (Hibiki-nada; Awaji island HORI & TSUCHIDA, 1995), EC5.
- Habitat: 10-60 m., sandy mud.
- Original genus: *Pyramidella* (*Actaeopyramis*).

G4718 *L. adamsi* KURODA & HABE in KURODA *et al.*, 1971

Shiro-hime-gōna

- Type locality: Sagami bay, central Honshū.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and westwards, Sagami bay, Enshū-nada.
- Habitat: 50-150 m., sand.

G4719 *L. sagamiensis* KURODA & HABE in KURODA *et al.*, 1971

Tama-makimono-gai

- Type locality: Sagami bay, central Honshū.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) to Sagami bay, Enshū-nada off Aichi prefecture (50-200 m., sand); Japan Sea (Sado island, 16 m.)

G4720 *L. nomurai* HABE, 1991-d

Kogata-makimono-gai

- Type locality: off Chōshi (Chiba prefecture, central Honshū); 150 m.
- Distribution: northwestern Honshū (off Naminosuke island, Ōtsuchi bay; 63 m., sand TSUCHIDA & HORI, 1992), off Chōshi.

G4721 *L. exarata* A. ADAMS, 1860-i

- Type locality: 'Tabu-Sima' (Tobishima, Japan Sea off Yamagata prefecture).
- Distribution: 'Japan Sea coast at 39° N.' (KURODA & HABE, 1952-a).

G4722 *L. insculpta* A. ADAMS, 1860-i

- Type locality: Korea strait; 46 fms.
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

G4723 *L. japonica* (A. ADAMS, 1860-c)

- Type locality: Korea strait, 'off Nippon' (Japan).
- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Myonia*.

G4724 *L. punctata* A. ADAMS, 1861-d

- Type locality: 'Tabu-Sima' (Tobishima, Japan Sea off Yamagata prefecture).
- Distribution: 'Japan Sea coast at 39° N.' (KURODA & HABE, 1952-a).

G4725 *L. sulcata* A. ADAMS, 1861-e

- Type locality: Korea strait; 46 fms.
- Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).

Family EBALIDAE WARÉN, 1994

□ Genus *Ebala* LEACH in GRAY, 1847

Type species: *Turbo elegantissima* MONTAGU, 1803 (mt.)

G4726 *E. pagodula* (YOKOYAMA, 1927)

Naga-setomono-kuchikire

- Type locality: Dokan-yama, Tōkyō City (fossil).
- Distribution: northeastern Honshū (Ōtsuchi bay, Iwate prefecture), Japan Sea (Wakasa bay).
- Habitat: 70-20 m., sand.
- Original genus: '*Rissoina*'?

G4727 *E. scintillans* A. ADAMS, 1861-a

- Type locality: 'Sado' (Sado island, Japan Sea); 30 fms.
- Distribution: 'Japan Sea coast at 38° N.' (KURODA & HABE, 1952-a).

G4728 *E. vestalis* A. ADAMS, 1861-a

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).

G4729 *E. virginea* A. ADAMS, 1860-f

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).

Superorder OPISTHOBRANCHIA MILNE-EDWARDS, 1848

Order ARCHITECTIBRANCHIA HASZPRUNAR, 1985

Superfamily ACTEONOIDEA D'ORBIGNY, 1835

Family ACTEONIDAE D'ORBIGNY, 1835

(Refs.: Habe, 1950-d)

□ Genus *Acteon* MONTFORT, 1810 in 1808-10

Type species: *Bulla tornatilis* LINNAEUS, 1758 (o. d.) (= *Tornatella* LAMARCK, 1816; *Speo* RISSO, 1826; *Kanilla* SOWERBY I, 1838; *Myosota* GRAY, 1847; *Actaeon* A. ADAMS, 1854 non OKEN, 1815; *Bullinopersilia* NORDSIECK, 1972)



G4730 *A. siebaldii* (REEVE, 1842-c)

(= *seibaldi*, *sieboldii* of auct.)

Ō-shii-no-mi-gai

- Type locality: '*ad oras Japoniae*' (coasts of Japan).
- Distribution: northeastern Honshū (Miyako bay, Iwate prefecture) and southwards, P9-P5, Seto inland sea, Japan Sea (J1), northern Kyūshū, EC5.
- Habitat: 10-30 m., sand.
- Original genus: *Tornatella*.

G4731 *A. soyoae* HABE, 1961-a

Sōyō-kijibiki-gai

- Type locality: 'Sōyō-Maru' sta. 504, off Okinoshima island, Japan Sea; 106 m., shell and gravel bottom.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Sado island, J3-J1), EC5.
- Habitat: 50-300 m., fine sand.

G4732 *A. teramachii* HABE, 1950-d

Watazoko-kijibiki-gai

- Type locality: Tosa bay off Kōchi prefecture, southern Shikoku.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (off Awashima, Niigata prefecture; J3).
- Habitat: 50-200 m., fine sand.

G4733 *A. archibenthicola* HABE, 1955

Fukami-kijibiki-gai

- Type locality: Tosa bay off Kōchi prefecture, southern Shikoku.
- Distribution: Bōsō peninsula and southwards, P7-P5, Tosa bay.
- Habitat: 100-200 m., fine sand.

G4734 *A. virgatus* (REEVE, 1842-c)

Yanagi-shibori-kijibiki-gai

- Type locality: '*ad insulam Masbate, Philippinarum*'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines to Fiji.
- Habitat: intertidal to 30 m., sand.
- Original genus: *Tornatella*.

G4735 *A. nakayamai* HABE, 1952-a

Nakayama-kijibiki-gai

- Type locality: Moeshima, Kagoshima bay, southern Kyūshū (fossil).
- Distribution: Tosa bay (southern Shikoku).
- Habitat: 100-200 m., sandy mud.

G4736 *A. subincisus* OKUTANI, 1968

- Type locality: 'Sōyō-Maru' sta. B2, off Miyake island, Izu islands: 34 04.4' N., 140 01.5' E., 1270 m.
- Distribution: Bōsō peninsula (TSUCHIDA & KUROZUMI, 1995-b); type locality.

□ Genus *Punctacteon* KURODA & HABE in HABE,

1961-a

Type species: *Tornatella fabreana* CROSSE, 1874 (o. d.)

G4737 *P. fabreana* (CROSSE, 1874)

Kijibiki-gai (= Akafu-kijibiki-gai)

- Type locality: New Caledonia.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Sado island, J3-J1), EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific to Tonga, New Caledonia.
- Habitat: 10-300 m., fine sand.
- Original genus: *Tornatella*.

**Notes:** the shell known as Akafu-kijibiki-gai has also been cited as *Voluta flammeus* GMELIN, 1791; the present authors have been unable to determine whether this is correct, and provisionally include this Japanese name under *P. fabreana*.

G4738 *P. variegatus* (BRUGUIÈRE, 1792 in 1789-1816)  
(= *Pupa solidula* RÖDING, 1798 non LINNAEUS, 1758)

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, tropical western Pacific, Australia to Fiji.
- Habitat: 10-100 m., fine sand.
- Original genus: *Bulimus*.

G4739 *P. amakusaensis* HABE, 1961-a

Amakusa-kijibiki-gai

- Type locality: Tomioka bay, Amakusa island, western Kyūshū; 10-30 m., sandy mud.
- Distribution: northern & western Kyūshū.
- Habitat: 10-30 m., sandy mud.

G4740 *P. kirai* (HABE, 1949-d)

Ō-kijibiki-gai

- Type locality: Tosa bay off Kōchi prefecture, southern Shikoku; ± 70 m.
- Distribution: Bōsō peninsula and southwards, P7-P5, (western Seto inland sea TSUCHIDA, HORI & MITOKI, 1991), Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5.
- Habitat: 50-150 m., sandy mud.
- Original genus: *Acteon*.

G4741 *P. kawamurai* (HABE, 1952-a)

(= *Acteon* sp. *sensu* Is. TAKI, 1950)

Kawamura-kijibiki-gai

- Type locality: Sagami bay, central Honshū.
- Distribution: Bōsō peninsula to Sagami bay, western Seto inland sea (FUKUDA, 1996), western Kyūshū (off Nagasaki, 152 m. HABE, 1954), western Japan Sea (off Tsunoshima and Mishima TSUCHIDA & HORI, 1996).
- Habitat: 100-200 m., sandy mud.
- Original genus: *Acteon*.

G4742 *P. kajiyamai* HABE, 1976-d

Shima-risu-kijibiki-gai (= Futo-suji-kijibiki)

- Type locality: Cape Ashizuri, southwestern Shikoku.
- Distribution: recorded only from type locality.

□ Genus *Japanacteon* Is. TAKI, 1956

Type species: *Actaeon nipponensis* YAMAKAWA, 1911 (o. d.)

G4743 *J. nipponensis* (YAMAKAWA, 1911-b)

(= *Actaeon siogamensis* NOMURA, 1939-a)

Murakumo-kijibiki-gai

- Type locality: Ōji, Kita-ku, Tōkyō City (fossil).
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (Wakasa bay, J2-J1), EC5.
- Habitat: subtidal to 30 m., sand.
- Original genus: *Actaeon* (as ssp. of *A. tornatilis*).

□ Genus *Obrussena* IREDALE, 1930

Type species: *Obrussa bracteata* IREDALE, 1925 (o. d.)

(= *Obrussa* IREDALE, 1925 non BRAUN, 1915)

G4744 *O. moeshimaensis* HABE, 1952-a

Hinano-biku-gai

- Type locality: Moeshima, Kagoshima bay (semi-fossil).
- Distribution: Izu peninsula and southwards, P6-P5, Japan Sea (off Mishima; J2-J1), EC5.
- Habitat: 50-200 m., coarse sand and stones.

□ Genus *Crenilabium* COSSMANN, 1889

Type species: *Actaeon (Crenilabium) aciculatus*

COSSMANN, 1889

(= *Lissactaeon* MONTEROSATO, 1890; *Lissacteon*

HABE, 1961 *sensu* OKUTANI, 1964-b; 1966)

G4745 *C. pacificus* (KURODA & HABE in HABE, 1961-a)

Migaki-kijibiki-gai (= Hachinoko-gai)

- Type locality: off Chōshi (Chiba prefecture, central Honshū), 100-150 m.
- Distribution: Kashima-nada (off Ibaraki prefecture OKUTANI, 1964-b) and southwards, P7-P5 (Izu islands OKUTANI, 1968; Sagami bay OKUTANI, 1966), Seto inland sea, Japan Sea (Sado island, J3-J1), EC5.
- Habitat: 100-300 m., sand.
- Original genus: *Lissactaeon*.

□ Genus *Pupa* RÖDING, 1798

Type species: '*Voluta solidula* LINNAEUS' (s. d. SUTER,

1913; = *Bulla solidula* LINNAEUS, 1758)

(= *Solidula* FISCHER von WALDHEIM, 1807; *Dactylus*

SCHUMACHER, 1817; *Solidulus* FÉRUSAC, 1829;

*Buccinulus* H. & A. ADAMS, 1854)

Subgenus *Pupa s. str.*

G4746 *P. (P.) solidula* (LINNAEUS, 1758)

(= *P. grisebla* RÖDING, 1798; *Tornatella fumata* REEVE, 1865 in 1843-65; *P. roseomaculata* IREDALE, 1936)

Taiwan-kayanomi-gai

- Type locality: none designated.
- Distribution: Ogasawara islands (FUKUDA, 1995), southern Kyūshū and southwards, ECP4-ECP2, P2; Philippines, western Pacific.
- Habitat: intertidal to 30 m., sand.
- Original genus: *Bulla*.

G4747 *P. (P.) sulcata* (GMELIN, 1791)

(= *Tornatella glabra* REEVE, 1842-c)

Kayanomi-gai

- Type locality: none designated.
- Distribution: southern Kyūshū and southwards, ECP4-ECP2, P2; Philippines, tropical Pacific.
- Habitat: intertidal to 30 m., sand.
- Original genus: *Voluta*.

G4748 *P. (P.) affinis* A. ADAMS, 1854 in H. & A. ADAMS, 1853-58

(= *Tornatella alveola* SOUVERBIE, 1863; *T. cinerea*

WATSON, 1886; *Solidula thaanumi* PILSBRY, 1917)

Beni-kayanomi-gai

- Type locality: 'China Sea; New Ireland (Papua New Guinea); Borneo; Philippines'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, tropical Pacific.
- Habitat: intertidal to 30 m., sand.
- Original genus: *Buccinulus*.

G4749 *P. (P.) coccinata* (REEVE, 1842-c)

Akanefu-kayanomi-gai

- Type locality: '*ad insulam Mindanao, Philippinarum*'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines.
- Habitat: intertidal to 30 m., sand.
- Original genus: *Tornatella*.

G4750 *P. (P.) suturalis* (A. ADAMS, 1854 in H. & A. ADAMS, 1853-58)

- Type locality: Luzon, Philippines, in sandy mud.
- Distribution: 'Pacific side (?)' (KURODA & HABE, 1952-a); Philippines.
- Original genus: *Buccinulus*.

Subgenus *Rictaxiella* HABE, 1958-c

Type species: *Rictaxiella choshiensis* HABE, 1958 (mt.)

G4751 *P. (R.) choshiensis* (HABE, 1958-c)

Usu-murasaki-kayanomi-gai

- Type locality: 'off Chōshi, Chiba prefecture' (corrected to 'Zushi City, Kanagawa Pref., Sagami bay' HABE, 1977-c) 'from stomach of Asterians'.
- Distribution: recorded only from type locality.
- Original genus: *Rictaxiella*.

Subgenus *Strigopupa* HABE, 1958-c

Type species: *Buccinulus strigosa* GOULD, 1859 (mt.)

G4752 *P. (S.) strigosa strigosa* (GOULD, 1859 in 1859-61)

(= *Tornatella suturalis* REEVE, 1868 non A. ADAMS, 1854; *Buccinulus fraterculus* DUNKER, 1882)

Ko-shii-no-mi-gai

- Type locality: 'Loo Choo' (Okinawa) and 'Kagosima' (Kagoshima, southern Kyūshū).
- Distribution: Fukushima prefecture and southwards, P8-P5, Seto inland sea, Japan Sea (eastern Noto peninsula, J3-J1), EC5, ECP4-ECP2.
- Habitat: intertidal to 100 m., sand.
- Original genus: *Buccinulus*.

G4753 *P. (S.) strigosa sekii* HABE, 1958-c

Seki-ko-shi-no-mi-gai

- Type locality: off Chōshi (Chiba prefecture, central Honshū).
- Distribution: recorded only from type locality.

□ Genus *Microglyphis* DALL, 1902-b

Type species: *Actaeon curtulus* DALL, 1890 (o. d.)

(= *Hyporingicula* HABE, 1952-a)

G4754 *M. japonicus* (HABE, 1952-a)

(= *M. noguchii* KURODA, 1961-b)

Warabe-mame-urashima

- Type locality: Tosa bay off Kōchi prefecture, southern Shikoku.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and westwards, Izu islands (off Miyake island, 1080-1205 m. OKUTANI, 1968), P7-P5 (Sagami bay, 780-1220 m. OKUTANI, 1964-b), Japan Sea (off Awashima; J3-J1), off southwestern Kyūshū.
- Habitat: 100-300 m., fine sand.
- Original genus: *Hyporingicula*.

G4755 *M. globularis* (E. A. SMITH, 1875-b)

(= *M. furukawai* KURODA, 1961-b)

Furukawa-warabe-mame-urashima

- Type locality: 42° 52' N., 144° 40' E. (off southeastern Hokkaidō), 48 fms.
- Distribution: Hokkaidō.
- Original genus: *Admete*.

**Notes:** occasionally recovered from stomachs of flatfish *Hippoglossus hippoglossus* (Hokkaidō-karei) from Hokkaidō.

Family APLUSTRIDAE GRAY, 1847

(= HYDATINIDAE PILSBRY, 1900)

(Refs.: Habe, 1950-b)

□ Genus *Hydatina* SCHUMACHER, 1817

Type species: *Bulla physis* LINNAEUS, 1758 (mt.)

(= *Hydatoria* IREDALE, 1936; *Noalda* IREDALE, 1936)

G4756 *H. physis* (LINNAEUS, 1758)

(= *Bulla atreolineata* SCHRÖTER, 1804; *H. filosa* SCHUMACHER, 1817; *B. (Hydatina) straminea* MENKE, 1835; *H. quoyana* D'ORBIGNY, 1845)

Misu-gai

- Type locality: none designated.
- Distribution: Fukushima prefecture and southwards, P8-P5, Japan Sea (northern Yamaguchi prefecture; J1), EC5, ECP4-ECP2; Indo-Pacific, Hawaii to South Africa, Caribbean, Canary islands.
- Habitat: intertidal in tidepools to 20 m., in sand among seaweed.
- Original genus: *Bulla*.

G4757 *H. albocincta* (VAN DER HOEVEN, 1839)

(= *Bulla ferruginea* PERRY, 1811 non GMELIN, 1791; *H. inflata* DUNKER, 1877; *H. zonata sensu* HABE, 1950; KIRA, 1962 non LIGHTFOOT, 1786)

Yakata-gai

- Type locality: China.
- Distribution: Bōsō peninsula, P7-P5, EC5, ECP4-ECP2, P2; Philippines to Australia.
- Habitat: intertidal to 100 m., sand.

G4758 *H. zonata* (LIGHTFOOT, 1786)

(= *Bulla amplustre* BORN, 1780 non LINNAEUS, 1758; *B. velum* GMELIN, 1791; *Hydatina vexillum* SOWERBY II, 1867)

Hime-yakata-gai

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: 10-50 m., fine sand.
- Original genus: *Bulla*.

G4759 *H. amplustre* (LINNAEUS, 1758)

(= *Amplustrum fasciatum* SCHUMACHER, 1817; *H. pulchella* SWAINSON, 1840; *B. (Amplustrum) thalassiarchi* A. ADAMS, 1855; *Aplustrum aplustre (sic) sensu* IWAKAWA, 1919)

Beni-yakata-gai

- Type locality: 'in Asia'.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: 10-50 m., fine sand.
- Original genus: *Bulla*.

□ Genus *Micromelo* PILSBRY, 1895-b

Type species: *Bulla undatus* BRUGUIÈRE, 1792 in 1789-1816

(= *Bullinula* GRAY, 1847 non SWAINSON, 1840)

G4760 *M. undatus* (BRUGUIÈRE, 1792 in 1789-1816)

(= *Bullaea guamensis* QUOY & GAIMARD, 1825; *Bulla scripta* GARRETT, 1857)

Kon-shibori-gai

- Type locality: none designated.
- Distribution: southern Kyūshū and southwards, ECP4-ECP2, P2; Philippines, Indo-Pacific to Hawaii, Australia.
- Habitat: intertidal to 10 m., among seaweed on rocks.
- Original genus: *Bulla*.

Family **BULLINIDAE GRAY, 1850**

□ Genus *Bullina* **FÉRUSAC, 1822**

Type species: *Voluta scabra* GMELIN, 1791 non MÜLLER, 1874 (s. d. GRAY, 1847; = *Bulla lineata* GRAY, 1825)  
(= *Bullinula* SWAINSON, 1840; *Perbullina* IREDALE, 1929)

G4761 *B. lineata* (GRAY, 1825)

(= *Voluta scabra* GMELIN, 1791 non MÜLLER, 1784; *Voluta ziczac* MUEHLFELDT, 1818 non SCHRÖTER, 1804)

Beni-shibori

- Type locality: 'New Holland' (Australia).
- Distribution: Bōsō peninsula and southwards, P7-P5, western Japan Sea (northern Yamaguchi prefecture HORI & NAKAMURA, 1998), EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Australia.
- Habitat: intertidal to 30 m., among seaweed.
- Original genus: *Bulla*.

G4762 *B. nobilis* **HABE, 1950**

(= *Bullina bruguinori* (sic) sensu HIRASE, 1922 non bruguieri A. ADAMS, 1850)

Ō-beni-shibori

- Type locality: Wakayama prefecture, central Honshū.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5.
- Habitat: 10-50 m., sand.

G4763 *B. deshayesii* **PILSBRY, 1894-c**

(= *B. vitrea* MARTENS, 1880 non PEASE, 1860)

Kuro-suji-shibori

- Type locality: Okinawa islands.
- Distribution: Amami islands, ECP3-ECP2.

G4764 *B. virgo* **HABE, 1950-b**

Yakata-shibori-gai

- Type locality: Kagoshima prefecture, southern Kyūshū.
- Distribution: Bōsō peninsula and southwards, P7-P5, western Japan Sea (northern Yamaguchi prefecture HORI & NAKAMURA, 1998), EC5.
- Habitat: 50-150 m., sand.

G4765 *B. callizona* **SAKURAI & HABE in HABE, 1961-a**

Ko-ito-gai

- Type locality: off Chōshi (Chiba prefecture, central

Honshū).

- Distribution: off Chōshi and southwards, P7-P5, EC5.
- Habitat: 10-100 m., fine sand.

Superfamily **RINGICULOIDEA PHILIPPI, 1853**

Family **RINGICULIDAE PHILIPPI, 1853**

(Refs.: Habe, 1950-a)

□ Genus *Ringicula* **DESHAYES, 1838**

Type species: *Auricula ringens* LAMARCK, 1804 (s. d. GRAY, 1847)

(= *Aptycha* MEEK, 1863; *Plicatira* NORDSIECK, 1972; *Ringactaeon* NORDSIECK, 1972)

Subgenus *Ringicula* s. str.

G4766 *R. (R.) niinoi* **NOMURA, 1939-a**

(= *R. doliaris* TAKEYAMA, 1935 non GOULD, 1860)  
Niino-mame-urashima

- Type locality: off Fukui prefecture, Japan Sea.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (off northern Niigata prefecture; J3-J1), EC5, East China Sea.
- Habitat: 40-140 m., fine sand, sandy mud, coarse sand and stones.

Subgenus *Ringiculina* **MONTEROSATO, 1884**

Type species: *Ringicula leptocheila* BRUGNONE, 1873 (o. d.)

(= *Ringiculadda* IREDALE, 1936)

G4767 *R. (Rin.) doliaris* **GOULD, 1860 in 1859-61**

(= *R. arctata* GOULD sensu LISCHKE, 1871 non GOULD, 1860 in 1859-61; *R. oehlertiae* MORELET, 1880; *R. musashiensis* YOKOYAMA, 1920)

Mame-urashima

- Type locality: 'Hakodadi Bay, 6 fathoms, sandy mud' (Hakodate, Hokkaidō).
- Distribution: southern Hokkaidō and southwards, P10-P5, Seto inland sea, Japan Sea (Sado island; J3-J1), EC5; Korea, China.
- Habitat: 5-150 m., sandy mud.

G4768 *R. (Rin.) propinquans* **HINDS, 1844-f**

Niyori-mame-urashima

- Type locality: Sual, Philippines; 5-7 fms., sandy mud.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, East Indies to Red Sea.
- Habitat: 5-150 m., sandy mud.

G4769 *R. (Rin.) kurodai* **TAKEYAMA, 1935**

Kuroda-mame-urashima

- Type locality: Takeno village, Hyōgo prefecture (central Honshū, Japan Sea).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Sado island, J3-J1), EC5.
- Habitat: 5-150 m., sand.

**Notes:** originally in subgenus *Ringiculella*.

G4770 *R. (Rin.) yokoyamai* TAKEYAMA, 1935

(= *R. arctata* BRAUNS, 1881 non GOULD, 1860)

Yokoyama-mame-urashima

- Type locality: Ōtake, Narita City, Chiba prefecture, central Honshū (fossil).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Wakasa bay; J2-J1), EC5.
- Habitat: 50-150 m., sandy mud.

Notes: originally in subgenus *Ringiculella*.

G4771 *R. (Rin.) takeyamai* HABE, 1950-a

Takeyama-mame-urashima

- Type locality: Tosa bay, southern Shikoku.
- Distribution: Bōsō peninsula and westwards, P7-P5, EC5.
- Habitat: 5-100 m., sand.

G4772 *R. (Rin.) teramachii* HABE, 1950-a

Teramachi-mame-urashima

- Type locality: Tosa bay, southern Shikoku.
- Distribution: off Chōshi (Chiba prefecture, central Honshū), Sagami bay (600m. OKUTANI, 1968), Suruga bay, Tosa bay.

G4773 *R. (Rin.) pilula* HABE, 1950-a

(= *R. piluda sensu* MATSUMOTO, 1979 err.)

Shiratama-mame-urashima

- Type locality: Tosa bay, southern Shikoku.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and westwards, Izu islands (off Miyake island, 1080-1205 m. OKUTANI, 1968), Sagami bay (550-1020 m. OKUTANI, 1964-b; 1966) Mie prefecture (Koshi, 50 m. MATSUMOTO, 1979), Kii peninsula (TSUCHIDA, 1985-b), Tosa bay, western Kyūshū (730-760 m. OKUTANI, 1964-b)

G4774 *R. (Rin.) okadai* HABE, 1956

Okada-mame-urashima

- Type locality: Tosa bay, southern Shikoku.
- Distribution: western Suruga bay, P6-P5, Tosa bay.

G4775 *R. (Rin.) tosaensis* HABE, 1950-a

- Type locality: Tosa bay, southern Shikoku.
- Distribution: western Suruga bay, P6-P5, Tosa bay.

G4776 *R. (Rin.) arctata* GOULD, 1860 in 1859-61

- Type locality: Hong Kong.
- Distribution: Ōsaka bay and westwards, Seto inland sea, Japan Sea (western Noto peninsula, J2-J1), western Kyūshū (Nagasaki LISCHKE, 1869); Hong Kong, Madagascar.

□ Genus *Ringiculopsis* CHAVAN, 1947

Type species: *Ringicula (Ringiculopsis) larteti* CHAVAN, 1947 (o. d.)

G4777 *Ringiculopsis nipponica* (KURODA, 1961-b)

(= *Ringiculospingia foveolata* YOKOYAMA *sensu* HABE, 1950)

Wadatsumi-mame-urashima

- Type locality: Enshū-nada (off Aichi prefecture, central Honshū).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and westwards, Sagami bay (450 m. OKUTANI, 1964-b), Suruga bay, Tosa bay (southern Shikoku).
- Habitat: 100-500 m., fine sand.
- Original genus: *Ringiculospingia*.

Order CEPHALASPIDEA FISCHER, 1883

Superfamily PHILINOIDEA GRAY, 1850

Family RETUSIDAE THIELE, 1926

(Refs.: Habe, 1950-a)

□ Genus *Retusa* BROWN, 1827

Type species: *Bulla obtusa* MONTAGU, 1807

(= *Utriculus* T. BROWN, 1844 non SCHUMACHER, 1817; *Mamilloretusa* NORDSIECK, 1972)

Subgenus *Retusa s. str.*

G4778 *R. (R.) elegantissima* HABE, 1950-a

Hana-zuto-kome-tsubu

- Type locality: Obama bay, Fukui prefecture (Japan Sea).
- Distribution: Japan Sea (Nanao bay, Noto peninsula); Obama bay).

Subgenus *Ventomnestia* IREDALE, 1936

Type species: *Ventomnestia colorata* IREDALE, 1936 (o. d.)

G4779 *R. (V.) bizona* A. ADAMS, 1850-h

(= *Cylichma villica* GOULD, 1859 in 1859-61; *Retusa (Ventomnestia) kawamurai* HABE, 1951)

Hade-yama-mayu-gai

- Type locality: 'China Sea'.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, tropical Pacific.
- Habitat: 10-20 m., sand.

Subgenus *Semiretusa* THIELE, 1925

Type species: *Bulla borneensis* A. ADAMS, 1850 (o. d.)

G4780 *R. (S.) pseudoglobosa* NOMURA, 1939-a

• Type locality: Shiogama bay, Miyagi prefecture, northeastern Honshū.

- Distribution: 'Pacific coast, 38°-39° N.' (KURODA & HABE, 1952-a).

Subgenus *Decorifer* IREDALE, 1937-a

Type species: *Decorifer elisa* IREDALE, 1937 (o. d.)

G4781 *R. (D.) insignis* (PILSBRY, 1904-b)

(= *Tornatina fontinalis* YOKOYAMA, 1927)

Kome-tsubu-gai

- Type locality: 'Hirado, Hizen' (Hirado island, Nagasaki prefecture, western Kyūshū).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Seto inland sea, Japan Sea (Oga

peninsula, J3-J1), EC5.

- Habitat: intertidal to 30 m., sand.
- Original genus: *Tornatina*.

G4782 **R. (D.) *delicatulus* (A. ADAMS, 1862-a)**

Hiramaki-kome-tsubu

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: Suruga bay and southwards, P6-P5, Japan Sea (Wakasa bay, J2-J1), EC5, Seto inland sea.
- Habitat: 10-60 m., mud.
- Original genus: *Tornatina*.

G4783 **R. (D.) *matsusimanus* NOMURA, 1940**

Matsushima-kome-tsubu

- Type locality: Matsushima bay, Miyagi prefecture, northeastern Honshū.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (Sado island; J3-J1), EC5.
- Habitat: intertidal to 60 m., mud and fine sand.

G4784 **R. (D.) *globosus* YAMAKAWA, 1911**

Donguri-kome-tsubu

- Type locality: Ōtake, Narita City, Chiba prefecture, central Honshū (fossil) and Shiba-kuruma-cho, Minato-ku, Tōkyō City (fossil).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Seto inland sea, EC5.
- Habitat: 10-60 m., sand.

G4785 **R. (D.) *longispinata* (YAMAKAWA, 1911)**

Kubimaki-kome-tsubu

- Type locality: Ichihara City, Chiba prefecture, central Honshū (fossil).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Seto inland sea, Japan Sea (off Shimane prefecture, J2-J1).
- Habitat: 10-60 m., mud.
- Original genus: *Tornatina*.

G4786 **R. (D.) *miyagianus* NOMURA, 1940**

- Type locality: Miyagi prefecture, northeastern Honshū.
- Distribution: 'Pacific coast at 38° N.' (KURODA & HABE, 1952-a).

□ Genus *Cylichnella* GABB, 1873

Type species: *Bulla bidentata* D'ORBIGNY, 1841

G4787 **C. *kawamurai* HABE, 1958-c**

Hida-kaiko-gai

- Type locality: off Chōshi (Chiba prefecture, central Honshū).
- Distribution: recorded only from type locality.

□ Genus *Pyrrunculus* PILSBRY, 1895-b

Type species: *Bulla pyriformis* A. ADAMS, 1850

(= *Sao* H. & A. ADAMS, 1854 non BILLBERG, 1820)

G4788 **P. *pyriformis* (A. ADAMS, 1850-h)**

(= *P. obesus* HABE, 1950-a)

Budō-no-tane-gai

- Type locality: 'China Sea'.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, Japan Sea (off central Niigata prefecture, J3-J1), EC5, East China Sea; China.
- Habitat: 100-200 m., fine sand.
- Original genus: *Bulla*.

G4789 **P. *nitidus* (A. ADAMS, 1850-h)**

Hoso-budō-no-tane-gai

- Type locality: 'Shores of Borneo'.
- Distribution: southern Okinawa prefecture (off Miyako island HABE, 1976-e); type locality.
- Original genus: *Bulla* (*Atys*).

G4790 **P. *phialus* (A. ADAMS, 1862-a)**

(= *Cylichna sibaensis* YAMAKAWA, 1911)

Shiributo-kaiko-gai-damashi

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (northern Niigata prefecture; J3-J1), EC5.
- Habitat: 20-400 m., fine sand.
- Original genus: *Sao*.

G4791 **P. *teramachii* HABE, 1952-a**

Kado-shiributo-kaiko-gai

- Type locality: Tosa bay, off Kōchi prefecture, southern Shikoku.
- Distribution: Izu islands (off Miyake island, 1080-1205 m. OKUTANI, 1968), Bōsō peninsula and southwards, P7-P5, EC5.
- Habitat: 50-200 m., fine sand.

G4792 **P. *tokyoensis* HABE, 1950-a**

Tōkyō-shiributo-kaiko-gai

- Type locality: Tōkyō bay, central Honshū.
- Distribution: Tōkyō bay, Sagami bay, Seto inland sea.
- Habitat: 10-60 m., sand.

G4793 **P. *toyamaensis* HABE, 1956**

Toyama-shiributo-kaiko-gai

- Type locality: Toyama bay, eastern Noto peninsula, Japan Sea.
- Distribution: Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; Awashima and southwards; Sado island; Toyama bay; Noto peninsula).
- Habitat: 200-400 m., sand.

G4794 **P. *ellipticus* (A. ADAMS, 1862-a)**

- Type locality: Tsushima, western Japan Sea; 16 fms.
- Distribution: 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a).
- Original genus: *Sao*.

G4795 **P. *folliculus* (A. ADAMS, 1862-a)**

- Type locality: 'Tabu-Sima' (Tobishima, off Yamagata prefecture, Japan Sea); 25 fms.
- Distribution: 'Japan Sea coast at 39° N.' (KURODA & HABE, 1952-a).
- Original genus: *Sao*.

□ Genus *Coleophysis* FISCHER, 1883

Type species: *Bulla truncatula* BRUGUIÈRE, 1792 in 1789-1816 (mt.)

G4796 *C. succincta* (A. ADAMS, 1862-a)

(= *Retusa percucurbitina* NOMURA, 1939-a; *R. siogamaensis* NOMURA, 1939-a)

- Type locality: Tsushima, western Japan Sea, 16 fms., and 'Awa-Sima' (Awashima, Japan Sea), 'low water'.
- Distribution: southwestern Hokkaidō and southwards, P10-P5, Seto inland sea, Japan Sea (Sado island; J3-J1), EC5.
- Habitat: 10-400 m., sandy mud.
- Original genus: *Tornatina*.

G4797 *C. cucurbitina* (YOKOYAMA, 1927)

Hyōtan-hekomi-tsurara

- Type locality: 'western Simosa' (Kanto region, central Honshū)(fossil).
- Distribution: southern Hokkaidō and southwards, P10-P5, EC5.
- Habitat: 10-50 m., sandy mud.

G4798 *C. waughiana* (HEDLEY, 1899-a)

Hana-kago-kome-tsubu-gai

- Type locality: Funafuti atoll, Ellice islands (Tuvalu, Polynesia).
- Distribution: Kii peninsula (Kushimoto; Suiken) and southwards, P5, ECP4-ECP2, P2; Philippines, central Pacific.
- Habitat: 10-30 m., sand.
- Original genus: *Retusa*.

G4799 *C. concentrica* (A. ADAMS, 1850-h)

(= *Bulla decussata* A. ADAMS, 1850-h)

Ko-shibori-kome-tsubu (= Ko-shibori-fumizuto)

- Type locality: Cagayan, Philippines.
- Distribution: Suruga bay (Shizuoka prefecture) and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, China.
- Habitat: 10-50 m., sandy mud.
- Original genus: *Bulla*.

G4800 *C. lineolata* (YOKOYAMA, 1927)

Yokosuji-hekomi-tsurara (= Chirimen-hekomi-tsurara)

- Type locality: Tateyama City, Bōsō peninsula, central Honshū (fossil).
- Distribution: Japan Sea (Sado island; off Tajima, Hyōgo prefecture K. ITŌ, 1967).
- Habitat: 60 m.

- Original genus: *Retusa*.

G4801 *C. sakuraii* HABE, 1958-c

Sakurai-kome-tsubu-gai

- Type locality: off Chōshi (Chiba prefecture, central Honshū).
- Distribution: recorded only from type locality.

□ Genus *Sulcoretusa* SMITH & GORDON, 1949

Type species: *Retusa (Sulcoretusa) montereyensis* SMITH & GORDON, 1949 (o. d.)

(= *Sulcularia* DALL, 1921 non RAFINESQUE, 1831)

G4802 *S. minima* (YAMAKAWA, 1911)

Hime-kome-tsubu-gai

- Type locality: Ōtake, Chiba prefecture, central Honshū and Ōji, Tōkyō City (fossils).
- Distribution: northeastern Honshū (southern Iwate prefecture), P9-P5, Seto inland sea, Japan Sea (Sado island; J3-J1), EC5; China.
- Habitat: 10-100 m., sandy mud.
- Original genus: *Retusa*.

□ Genus *Volvulella* NEWTON, 1891

Type species: *Bulla acuminata* BRUGUIÈRE, 1792 in 1789-1816

(= *Volvula* A. ADAMS, 1850-h non GISTL, 1848; *Phenacovolvula* ŌYAMA, 1954)

G4803 *V. eburnea* (A. ADAMS, 1850-h)

(= *Volvular (sic) artiaperta* YAMAKAWA, 1911)

Mame-higai (= Mame-kinu-tsutsumi; Tsumu-mame-higai)

- Type locality: 'China Sea'.
- Distribution: northeastern Honshū (southern Iwate prefecture), P9-P5, Seto inland sea, Japan Sea (Sado island; J3-J1), EC5, East China Sea; China.
- Habitat: subtidal to 115 m., sand.
- Original genus: *Bulla*.

G4804 *V. kinokuniana* (HABE, 1946-a)

Kinokuni-mame-higai

- Type locality: off Minabe, Wakayama prefecture, central Honshū; 100 fms.
- Distribution: Suruga bay (Shizuoka prefecture) and westwards, P6-P5, Japan Sea (southwest off Sado island; J3-J1), EC5.
- Habitat: 50-200 m., sand.
- Original genus: *Rhizorus*.

□ Genus *Rhizorus* MONTFORT, 1810 in 1808-10

Type species: *Rhizorus adalaidis* MONTFORT, 1810 (o. d.; = *Bulla acuminata* BRUGUIÈRE, 1792 in 1789-1816)

G4805 *R. ovulinus* (A. ADAMS, 1862-a)

(= *Atys angustata* E. A. SMITH, 1875; *V. actaeiformis* YOKOYAMA, 1922)

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.

- Distribution: southern Hokkaidō and southwards, P10-P5, Seto inland sea, Japan Sea (off central Niigata prefecture; J3-J1), EC5.

- Habitat: 10-410 m., fine sand.

- Original genus: *Volvula*.

G4806 ***R. tokunagai* (MAKIYAMA, 1927)**

Tokunaga-mame-higai

- Type locality: Ōji, Kita-ku, Tōkyō City (fossil).

- Distribution: northeastern Honshū (southern Iwate prefecture) and southwards, P9-P5, Seto inland sea, Japan Sea (Awashima; J4-J1), EC5.

- Habitat: 5-115 m., coarse sand and stones.

G4807 ***R. radiolus* (A. ADAMS, 1862-a)**

Aomori-mame-higai (= Aomori-kinu-tsutsumi)

- Type locality: 'Tabu-Sima' (Tobishima, Yamagata prefecture, Japan Sea); 25 fms.

- Distribution: Ise bay and northwards, P6-P9, Seto inland sea, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J3).

- Habitat: 10-200 m., sandy mud.

- Original genus: *Volvula*.

G4808 ***R. attenuatus* (A. ADAMS, 1862-a)**

- Type locality: Tsushima, western Japan Sea; 26 fms.

- Distribution: Kii peninsula (Suiken), Japan Sea (Maizuru, western Wakasa bay; Tsushima).

- Original genus: *Volvula*.

G4809 ***R. cylindrellus* (A. ADAMS, 1862-a)**

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.

- Distribution: northeastern Honshū (Ōtsuchi bay), Japan Sea (Wakasa bay; Mishima; Tsushima).

- Original genus: *Bulla*.

G4810 ***R. opalinus* (A. ADAMS, 1862-a)**

Opāru-mame-higai

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.

- Distribution: Japan Sea (off Mishima HORI & TSUCHIDA, 1994), 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).

- Original genus: *Volvula*.

G4811 ***R. spectabilis* (A. ADAMS, 1862-a)**

- Type locality: 'Tabu-Sima' (Tobishima, Yamagata prefecture, Japan Sea); 25 fms.

- Distribution: Japan Sea coast at 39° N. (KURODA & HABE, 1952-a).

- Original genus: *Volvula*.

G4812 ***R. striatulus* (A. ADAMS, 1850-h)**

- Type locality: 'China Sea'.

- Distribution: 'Pacific side (?)' (KURODA & HABE, 1952-a).

- Original genus: *Bulla*.

Family **PHILINIDAE GRAY, 1850**

(Refs.: Habe, 1950-e)

□ Genus ***Philine* ASCANIUS, 1772**

Type species: *Philine quadripartita* ASCANIUS, 1772

(mt.; = *Bulla aperta* LINNAEUS, 1767)

(= *Lobaria* MÜLLER, 1776; *Bulaea* LAMARCK, 1801; *Bullea* RAFINESQUE, 1815; *Colobocephalus* SARS, 1870; *Utriculopsis* SARS, 1870; *Phillingwinia* NORDSIECK, 1972; *Retusophilina* NORDSIECK, 1972)

G4813 ***P. argentata* GOULD, 1859 in 1859-61**

(= *P. japonica* LISCHKE, 1874; *P. striatella* TAPPARONE-CANEFRI, 1874)

Kisewata

- Type locality: 'Hakodadi Bay' (Hakodate, Hokkaidō); 2-6 fms, sandy mud.

- Distribution: southern Hokkaidō and southwards, P10-P5, Ōsaka bay (OKAMURA & KOJIMA, 1984), Japan Sea (Oga peninsula; J3-J1), EC5; Korea, China.

- Habitat: intertidal to 110 m., fine sand and mud.

G4814 ***P. kurodai* HABE, 1946-a**

Kuroda-kisewata

- Type locality: Wakayama prefecture (central Honshū).

- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, Japan Sea (northern Niigata prefecture; J3-J1), EC5.

- Habitat: 30-160 m., fine sand.

G4815 ***P. vitrea* GOULD, 1859 in 1859-61**

(= *P. scalpta* A. ADAMS, 1862; *P. miyadai* HABE, 1946-a)

Usu-kisewata

- Type locality: Hong Kong.

- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (northern Yamaguchi prefecture; J1).

- Habitat: 30-100 m., sandy mud.

G4816 ***P. crenata* A. ADAMS, 1862-a**

- Type locality: Tsushima, western Japan Sea; 30 fms., and Korea strait; 46 fms.

- Distribution: 'Pacific coast, 34°-35° N.' (KURODA & HABE, 1952-a).

G4817 ***P. striolata* A. ADAMS, 1862-a**

Temari-kisewata-gai

- Type locality: Tsushima, western Japan Sea; 30 fms.

- Distribution: Japan Sea (off Mishima HORI & TSUCHIDA, 1994), 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a).

G4818 ***P. orca* GOSLINER, 1988**

Mongara-kisewata

- Type locality: Aldabra atoll (Seychelles).

- Distribution: Sagami bay, Kii peninsula (Cape Shio), Japan Sea (off Tsunoshima TSUCHIDA & HORI, 1996;



Sado island; Toyama bay; Echizen coast); Indo-western Pacific.

- Habitat: intertidal.

G4819 *P. rubrata* GOSLINER, 1988

Aka-kisewata

- Type locality: Aldabra atoll (Seychelles).
- Distribution: Kii peninsula, Seto inland sea, Japan Sea (Noto peninsula; off Fukui prefecture); Indo-western Pacific.

□ Genus *Globophilina* HABE, 1958-c

Type species: *Globophilina kawamurai* HABE, 1958 (mt.)

G4820 *G. kawamurai* HABE, 1958-c

Kawamura-kisewata

- Type locality: off Chōshi (Chiba prefecture, central Honshū).
- Distribution: recorded only from type locality.

□ Genus *Hermania* MONTEROSATO, 1884

Type species: *Bulla scabra* MÜLLER, 1776

G4821 *H. infantilis* HABE, 1950-e

Chigo-kisewata

- Type locality: Tashikara bay, Mie prefecture, central Honshū.
- Distribution: Mie prefecture (Yokkaichi, 20 m. MATSUMOTO, 1979; Tashikara bay), Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; off Mishima TADA, 1964).
- Habitat: 20-50 m., sand.

□ Genus *Yokoyamaia* HABE, 1950-e

Type species: *Philine ornatissima* YOKOYAMA, 1927 (o. d.)

Subgenus *Yokoyamaia s. str.*

G4822 *Y. (Y.) ornatissima* (YOKOYAMA, 1927)

Yokoyama-kisewata

- Type locality: Takanawa, Minato-ku, Tōkyō City (fossil).
- Distribution: southwestern Hokkaidō and southwards, P10-P5, EC5.
- Habitat: 5-30 m., muddy bottom in bays.
- Original genus: *Philine*.

Subgenus *Choshiphiline* HABE, 1958-c

Type species: *Philine pygmaea* YOKOYAMA, 1922 (mt.)

G4823 *Y. (C.) pygmaea* (YOKOYAMA, 1922)

Kusari-kisewata

- Type locality: Ōtake, Narita City, Chiba prefecture, central Honshū (fossil).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and westwards, Tosa bay (southern Shikoku), western Kyūshū.
- Habitat: 50-100 m., sandy mud.
- Original genus: *Philine*.

□ Genus *Laona* A. ADAMS, 1865-a

Type species: *Bullaea pruinosa* CLARK, 1827

(= *Johania* MONTEROSATO, 1884; *Ossiania* MONTEROSATO, 1884)

G4824 *L. zonata* A. ADAMS, 1865-a

Obi-kisewata

- Type locality: 'O-Sima; Yobuko' (probably Kii-Ōshima, Wakayama prefecture and Yobuko, Saga prefecture, northern Kyūshū).
- Distribution: Kii peninsula (Tanabe bay; Ōshima), Tosa bay, western Kyūshū.
- Habitat: 10-50 m., sandy mud.

Family AGLAJIDAE PILSBRY, 1896

□ Genus *Pseudophilina* HABE, 1976-e

Type species: *Pseudophilina hayashii* HABE, 1976 (o. d.)

G4825 *P. hayashii* HABE, 1976-e

Niyori-kisewata

- Type locality: off Esu-zaki (cape), Wakayama prefecture, central Honshū; ± 200 m.
- Distribution: Enshū-nada (off Shizuoka prefecture) and westwards, Kii peninsula, Tosa bay, off southwestern Kyūshū.
- Habitat: 200-300 m., sandy mud.

□ Genus *Nakamigawaia* KURODA & HABE in HABE, 1961-a

Type species: *Nakamigawaia spiralis* KURODA & HABE, 1961 (mt.)

G4826 *N. spiralis* KURODA & HABE in HABE, 1961

Uzumaki-kisewata

- Type locality: Kasajima, eastern Sagami bay, central Honshū.
- Distribution: Sagami bay and southwards, Seto inland sea, western Kyūshū (Kushikino; Kagoshima).
- Habitat: intertidal to 30 m., among seaweed *Zostera maxima*.

□ Genus *Philinorbis* HABE, 1950-e

Type species: *Philinorbis teramachii* HABE, 1950 (mt.)

G4827 *P. teramachii* HABE, 1950-e

Kagami-kisewata

- Type locality: Tosa bay, southern Shikoku.
- Distribution: Mie prefecture (Shima peninsula), Kii peninsula, Tosa bay.
- Habitat: 80-120 m., sandy mud.

Family CYLICHNIDAE H. & A. ADAMS, 1854 in 1853-58

(= SCAPHANDRIDAE G. O. SARS, 1878)

□ Genus *Tricla* RETZIUS, 1788

G4828 *T. dilatata* (A. ADAMS, 1862-a)

- Type locality: Tsushima, western Japan Sea; 26 fms.

- Distribution: 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a).

- Original genus: *Scaphander*.

G4829 *T. elongata* (A. ADAMS, 1862-a)

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.

- Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).

- Original genus: *Scaphander*.

G4830 *T. sieboldii* (A. ADAMS, 1862-a)

- Type locality: Tsushima, western Japan Sea; 26 fms.

- Distribution: 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a).

- Original genus: *Scaphander*.

G4831 *T. sulcatina* (A. ADAMS, 1862-a)

- Type locality: Korea strait; 46 fms.

- Distribution: 'Pacific coast at 35° N.' (KURODA & HABE, 1952-a).

- Original genus: *Scaphander*.

□ Genus *Scaphander* MONTFORT, 1810 in 1808-10

Type species: *Bulla lignaria* LINNAEUS, 1758

(= *Bullaria* RAFINESQUE, 1815; *Assula* SCHUMACHER, 1817; *Mamillocyclina* NORDSIECK, 1972)

G4832 *S. attenuata* SCHEPMAN, 1909 in 1908-13

Seirā-gai

- Type locality: 'Siboga' sta. 52: 09° 3.4' S., 119° 56.7' E., 'Savu Sea. 959 m. Globigerine ooze.' (Between Flores and Sumba islands, Indonesia).

- Distribution: Tosa bay (AZUMA, 1960); Indonesia.

□ Genus *Bucconia* DALL, 1890

Type species: *Scaphander nobilis* VERRILL, 1884 (o. d.)

(= *Bullocardia* NORDSIECK, 1972)

G4833 *B. cumingii cumingii* (A. ADAMS, 1862-a)

Kubire-suifu-gai

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.

- Distribution: Sagami bay and southwards, P7-P5, Japan Sea (Wakasa bay, J2-J1), EC5.

- Habitat: 100-200 m., fine sand.

- Original genus: *Scaphander*.

G4834 *B. cumingi ventricosa* HABE, 1954

Hiro-kuchi-suifu-gai

- Type locality: Tosa bay, southern Shikoku.

- Distribution: western Bōsō peninsula (Nojimazaki HABE, 1954), P7-P5 (Sagami bay OKUTANI, 1964-b), EC5, ECP4.

- Habitat: 50-200 m., fine sand.

G4835 *B. teramachii* HABE, 1954

Teramachi-suifu-gai

- Type locality: Tosa bay, southern Shikoku; 100-300 m.

- Distribution: Izu islands (off Miyake island OKUTANI, 1964-b; 1968), Bōsō peninsula and westwards, Sagami bay (710-780 m. OKUTANI, 1964-b), Suruga bay, Mie prefecture (off Owase, 200 m. MATSUMOTO, 1979), Tosa bay.

- Habitat: 50-300 m., fine sand.

G4836 *B. robusta* (OKUTANI, 1966)

- Type locality: 'Sōyō-Maru' sta. 36, off Amami-Ōshima: 28° 52.6' N., 128° 08.5' E., 950 m.

- Distribution: recorded only from type locality.

- Original genus: *Scaphander* (*Bucconia*).

G4837 *B. centa* OKUTANI, 1987-a

Okina-suifu-gai

- Type locality: off Koshiki-jima islet, Kagoshima prefecture, southern Kyūshū: 31°-32° N., 127° 50' - 129° E., 400-500 m.

- Distribution: recorded only from type locality.

□ Genus *Nipponoscaphander* KURODA & HABE in KURODA *et al.*, 1971

Type species: *Scaphander japonica* A. ADAMS, 1862 (o. d.)

G4838 *N. japonica* (A. ADAMS, 1862-a)

Suifu-gai

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.

- Distribution: Bōsō peninsula and westwards, P7-P5, Japan Sea (Wakasa bay; Mishima), EC5, East China Sea.

- Habitat: 50-300 m., fine sand.

- Original genus: *Scaphander*.

□ Genus *Eoscapander* HABE, 1952-a

Type species: *Eoscapander fragilis* HABE, 1952 (mt.)

G4839 *E. fragilis* HABE, 1952-a

Ō-suifu-gai

- Type locality: 'Sōyō-Maru' sta. 15, Kashima-nada (off Ibaraki prefecture, central Honshū): 216 m., sandy mud.

- Distribution: Suruga bay (440-550 m. OKUTANI, 1966) and northwards, Sagami bay (620-780 m. OKUTANI, 1964-b), P6-P9, off southern Hokkaidō.

- Habitat: 100-300 m., mud.

□ Genus *Adamnestia* IREDALE, 1936

Type species: *Adamnestia peroniana* IREDALE, 1936 (o. d.)

G4840 *A. japonica* (A. ADAMS, 1862-a)

(= *Cylichna musashiensis* YOKOYAMA, 1920; *C.*

*orientalis* YOKOYAMA, 1920)

Kudatama-gai (= Kudatamano-gai)

- Type locality: Korea strait; 46 fms.

- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (northern Niigata prefecture; J3-J1), EC5, ECP4-ECP3.

- Habitat: 10-400 m., fine sand.
- Original genus: *Cylichna*.

G4841 *A. rimata* (A. ADAMS, 1862-a)

(= *A. tosaensis* HABE, 1954)

Tosa-kudatama-gai (= Tosa-haniwa-kudatama-gai)

- Type locality: Korea strait; 46 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture TSUCHIDA & HORI, 1996), EC5.
- Habitat: 50-350 m., sand.

G4842 *A. teramachii* HABE, 1954

Teramachi-kudatama-gai

- Type locality: Tosa bay, southern Shikoku.
- Distribution: Izu peninsula (HABE, 1954) and westwards, P7-P5, Japan Sea (Wakasa bay; J1), EC5.
- Habitat: 40-200 m., sand.

G4843 *A. laeta* (GOULD, 1859 in 1859-61)

Migaki-kudatama-gai

- Type locality: 'Kagosima' (Kagoshima, southern Kyūshū).
- Distribution: Kagoshima bay and western Kyūshū.
- Original genus: *Cylichna*.

G4844 *A. involuta* (A. ADAMS, 1850-h)

Misumaki-kudatama-gai

- Type locality: 'China Seas'.
- Distribution: western Kyūshū (Hirado island HABE, 1955), western Japan Sea (off Tsunoshima and Mishima TSUCHIDA & HORI, 1996).
- Original genus: *Bulla*.

□ Genus *Roxania* LEACH in GRAY, 1847

(= *Abderospira* DALL, 1896; *Damoniella* IREDALE, 1918)

G4845 *R. pacifica* (HABE, 1956)

Kizami-kodama-gai (= Tama-kizami-kodama-gai; Maru-kizami-kodama-gai)

- Type locality: Tosa bay, southern Shikoku.
- Distribution: western Suruga bay to southwestern Tosa bay.
- Original genus: *Abderospira*.

G4846 *R. umbilicata* (HABE, 1956)

Heso-aki-kizami-kodama-gai

- Type locality: Tosa bay, southern Shikoku.
- Distribution: Tosa bay.
- Original genus: *Abderospira*.

G4847 *R. punctulata* A. ADAMS, 1862-a

(= *Bulla multiarata* YOKOYAMA, 1922)

Ko-kizami-gai

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5 (Kashima-nada; Sagami bay

OKUTANI, 1964-b), Kii peninsula (TSUCHIDA, 1985-b), Japan Sea (Sado island; J3-J1), EC5.

- Habitat: 50-210 m., sand, coarse sand and stones.

□ Genus *Sabatia* BELLARDI, 1877

Type species: *Sabatia isseli* BELLARDI, 1877 (o. d.) (= *Sabatina* DALL, 1908)

G4848 *S. ovata* HABE, 1952-a

Maru-koke-kodama-gai

- Type locality: Tosa bay, southern Shikoku.
- Distribution: Tosa bay.

G4849 *S. japonica* HABE, 1952-a

(= *S. nipponica* HABE, 1952 *nom. nud.*)

- Type locality: Tosa bay, southern Shikoku.
- Distribution: Suruga bay and westwards to Tosa bay.

□ Genus *Cylichna* LOVÉN, 1846

Type species: *Bulla cylindracea* PENNANT, 1777 (= *Bullina* RISSO, 1826 *non* FÉRUSAC, 1822; *Cyclina* GRAY, 1857 *non* DESHAYES, 1850; *Bullinella* NEWTON, 1891)

G4850 *C. consobrina* GOULD, 1859-c

Itoko-kaiko-gai-damashi

- Type locality: 'west coast of Jesso' (western Hokkaidō).
- Distribution: Izu islands (off Izu-Ōshima OKUTANI, 1966), Sagami bay (580-790 m. OKUTANI, 1964-b), Bōsō peninsula and northwards, P8-P10, Japan Sea (northern Yamaguchi prefecture, J1-J5), Hokkaidō, OP; Kamchatka peninsula, Bering Sea.
- Habitat: 50-300 m., sandy mud.

G4851 *C. toyamaensis* HABE, 1956

(= *C. rikuzenica* HABE, 1956)

Toyama-kaiko-gai-damashi (= Toyama-kuda-tama-gai)

- Type locality: Toyama bay (eastern Noto peninsula, Japan Sea).
- Distribution: northeastern Honshū (Iwate prefecture) (off Kuji) and northwards, P9-P10, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J4).
- Habitat: 250-400 m., sandy mud.

G4852 *C. grisea* (E. A. SMITH, 1875-b)

(= *C. nipponensis* NOMURA & HATAI, 1940)

Nippon-kaiko-gai-damashi

- Type locality: off Akkeshi, eastern Hokkaidō: 42 52' N., 144 40' E., 48 fms.
- Distribution: northern Japan Sea (Kyurokushima, off Aomori prefecture), southern Hokkaidō.
- Habitat: 10-100 m., sandy mud.
- Original genus: *Haminea*.

G4853 *C. consobrinoides* KURODA & HABE, 1952-a

(= *C. consobrina* A. ADAMS, 1862 *non* GOULD, 1859; *C. consobroides* KURODA & HABE *sensu* HABE, 1956)

Kiba-kudatami-gai

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: off Mishima (TSUCHIDA & HORI, 1996).

G4854 *C. pertenuis* E. A. SMITH, 1875-b

- Type locality: off Akkeshi, eastern Hokkaidō: 42 52' N., 144 40' E., 48 fms.
- Distribution: unknown.

G4855 *C. assimilis* A. ADAMS, 1862-a

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: recorded only from type locality.

G4856 *C. brevissima* (A. ADAMS, 1850-h)

- Type locality: 'China Sea'.
- Distribution: 'Pacific side (?)' (KURODA & HABE, 1952-a).
- Original genus: *Bulla*.

G4857 *C. candidula* A. ADAMS, 1862-a

- Type locality: Tsushima, western Japan Sea; 26 fms.
- Distribution: 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a).

G4858 *C. ellipsoidea* GOULD, 1859 in 1859-61

- Type locality: 'Loo Choo' (Okinawa).
- Distribution: 'Pacific coast at 26° N.' (KURODA & HABE, 1952-a).

G4859 *C. inedita* A. ADAMS, 1862-a

- Yuki-kudatama-gai
- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
  - Distribution: off Mishima (HORI & TSUCHIDA, 1994); 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).

G4860 *C. laticula* A. ADAMS, 1862-a

- Type locality: 'Tabu-Sima' (Tobishima, Japan Sea off Yamagata prefecture).
- Distribution: 'Japan Sea coast at 39° N.' (KURODA & HABE, 1952-a).

G4861 *C. lepidula* A. ADAMS, 1862-a

- Type locality: Tsushima, western Japan Sea; 26 fms.
- Distribution: 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a).

G4862 *C. parallela* A. ADAMS, 1862-a

- Type locality: Tsushima, western Japan Sea; 16 fms.
- Distribution: 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a).

G4863 *C. proxima* A. ADAMS, 1862-a

- Type locality: Tsushima, western Japan Sea; 26 fms.
- Distribution: 'Pacific coast at 34° N.' (KURODA & HABE, 1952-a).

G4864 *C. pumila* A. ADAMS, 1862-a

- Type locality: Tsushima, western Japan Sea; 16 fms.
- Distribution: 'Pacific coast at 34° N.' (KURODA &

HABE, 1952-a).

G4865 *C. crispula* WATSON, 1886 in 1885-86

- Kinu-zutsumi-kudatama-gai
- Type locality: 'Challenger' sta. 185b, Raine island, Cape York, Australia: 11° 38' 15" S., 143° 59' 38" E., 155 fms.
  - Distribution: Japan Sea (off Mishima HORI & TSUCHIDA, 1994; 1996), off eastern Honshū, 285-6065 m. (by R. V. 'Vityaz'); Australia.

□ Genus *Cylichnum* DALL, 1908-c

Type species: *Utriculus domitus* DALL, 1889 (o. d.) (= *Volvulopsis* SCHEPMAN, 1913; *Volutopsis sensu* HABE, 1956 non MÖRCH, 1857)

G4866 *Cylichnum matsumotoi* HABE, 1956

- Zunguri-kuda-tama-gai
- Type locality: Kumano-nada off Owase, eastern Kii peninsula (Mie prefecture); ± 120 m.
  - Distribution: off Chōshi (Chiba prefecture, central Honshū), Enshū-nada (870 m. OKUTANI, 1964-b), off eastern Kii peninsula (Onigashima MATSUMOTO, 1979), off western Kyūshū (730-760 m. OKUTANI, 1964-b).
  - Habitat: 100-200 m., sand.

□ Genus *Eocylichna* KURODA & HABE in KURODA *et al.*, 1971

Type species: *Cylichna braunsi* YOKOYAMA, 1920 (o. d.)

G4867 *E. braunsi* (YOKOYAMA, 1920)

- Tsuma-beni-kuda-tama-gai
- Type locality: Naganuma, Totsuka-ku, Yokohama City (fossil).
  - Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Seto inland sea, Japan Sea (off Yamagata prefecture; J4-J1), EC5, East China Sea, ECP4-ECP2, P2; China, Philippines.
  - Habitat: 10-50 m., sandy mud.
  - Original genus: *Cylichna*.

G4868 *E. musashiensis* (TOKUNAGA, 1906)

- (= *Cylichna concinna* E. A. SMITH, 1875-b non A. ADAMS, 1850-h)
- Sekihitsu-kuda-tama-gai (= Sekihitsu-kaiko-gai-damashi)
- Type locality: Ōji, Kita-ku, Tōkyō City (fossil).
  - Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (Wakasa bay; Mishima; Shimane prefecture HABE, 1954), EC5, East China Sea.
  - Habitat: 20-200 m., fine sand.
  - Original genus: *Cylichna*.

G4869 *E. protracta* (GOULD, 1859 in 1859-61)

- Uchimaki-kuda-tama-gai (= Tsuya-kuda-tama-gai)
- Type locality: 'coast of China'.
  - Distribution: Ogasawara islands (FUKUDA, 1994),

western Kyūshū and southwards, ECP4-ECP2, P2; China.

- Habitat: 20-150 m., sandy mud.
- Original genus: *Cylichna*.

G4870 *E. venustula* (A. ADAMS, 1862-a)

(= *E. soyoae* HABE, 1954)

Sōyō-kuda-tama-gai

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: Tsugaru strait and southwards, P10-P5, Japan Sea (central Niigata prefecture; J3-J1), EC5, East China Sea.
- Habitat: 50-450 m., fine sand.
- Original genus: *Cylichna*.

G4871 *E. sigmolabris* HABE & ANDŌ, 1985-a

Shiguma-kuda-tama-gai

- Type locality: off Mihara, Hiroshima prefecture (Seto inland sea); 10-20 m.
- Distribution: recorded only from type locality.

□ Genus *Didontoglossa* ANNANDALE, 1924

(= *Neoacteocina* KURODA & HABE, 1952-a)

G4872 *D. koyasuensis* (YOKOYAMA, 1927)

(= *Tornatina dulcis* YOKOYAMA, 1927)

Koyasu-tsurara-gai (= Koyasu-tsubura)

- Type locality: Koyasu and Shimo-Sueyoshi, Yokohama City (fossil).
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (northern Yamaguchi prefecture; J1), EC5.
- Habitat: intertidal to 30 m., in bays; sandy mud.
- Original genus: *Tornatina*.

G4873 *D. decoratoides* HABE, 1956

Kome-tsubu-tsurara-gai

- Type locality: Saijo, Ehime prefecture, northwestern Shikoku (Seto inland sea).
- Distribution: Seto inland sea.
- Habitat: 10-60 m., sandy mud.

Family ACTEOCINIDAE PILSBRY, 1921

□ Genus *Acteocina* GRAY, 1847

Type species: *Actaeon wetherilli* LEA, 1833

(= *Alicula* EICHWALD, 1830; *Tornatina* A. ADAMS, 1850-h)

G4874 *A. (A.) gracilis* (A. ADAMS, 1850-h)

- Type locality: 'China Sea'.
- Distribution: Pacific coast, 0°-27° N. (KURODA & HABE, 1952-a).
- Original genus: *Bulla*.

G4875 *A. (A.) simplex* (A. ADAMS, 1850-h)

- Type locality: Cagayan, Mindanao, Philippines; 35 fms., sandy mud.
- Distribution: 'Pacific coast, 14°-26° N.' (KURODA &

HABE, 1952-a).

- Original genus: *Bulla*.

G4876 *A. (A.) exilis* (DUNKER, 1860)

Yowa-kome-tsubu-gai

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay) and southwards, P9-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, East China Sea.
- Habitat: 5-115 m., fine sand.
- Original genus: *Bulla*.

G4877 *A. (A.) gordonis* (YOKOYAMA, 1927)

Gorudon-kome-tsubu-gai

- Type locality: Matsudo City, Chiba prefecture, central Honshū (fossil).
- Distribution: northeastern Honshū (Iwate prefecture) (Ōtsuchi bay) and southwards, P9-P5, Seto inland sea, Japan Sea (Wakasa bay; J2-J1), EC5.
- Habitat: intertidal to 30 m., sandy mud.
- Original genus: *Retusa*.

G4878 *A. (A.) decorata* (PILSBRY, 1904-b)

Tsurara-gai (= Tōmaki-kome-tsubu-gai)

- Type locality: 'Hirado, Hizen' (Hirado island, Nagasaki prefecture, western Kyūshū).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Seto inland sea, Japan Sea (Oga peninsula; J3-J1), EC5.
- Habitat: 5-30 m., sandy mud.
- Original genus: *Tornatina*.

G4879 *A. (A.) fusiformis* (A. ADAMS, 1850-h)

Tsumu-gata-kome-tsubu-gai

- Type locality: 'China Sea'.
- Distribution: Tosa bay (southern Shikoku), EC5, ECP4-ECP2, East China Sea.
- Habitat: intertidal to 30 m., sandy mud.

G4880 *A. (A.) truncatoides* (NOMURA, 1939-a)

- Type locality: northeastern Honshū.
- Distribution: 'Pacific coast, 34°-38° N., Japan Sea coast, 36°-37° N.' (KURODA & HABE, 1952-a).
- Original genus: *Retusa*.

G4881 *A. (A.) tohokuensis* (NOMURA, 1939-a)

- Type locality: northeastern Honshū.
- Distribution: 'Pacific coast, 38°-41° N.' (KURODA & HABE, 1952-a).
- Original genus: *Retusa*.

G4882 *A. (A.) kesenensis* NOMURA & HATAI, 1935

- Type locality: Kesen-numa, Miyagi prefecture, northeastern Honshū.

- Distribution: northeastern Honshū (southern Iwate prefecture; Miyagi prefecture).

Subgenus *Truncateocina* **KURODA & HABE, 1954**

Type species: *Acteocina (Truncateocina) oyamai*  
KURODA & HABE, 1954 (o. d.)

G4883 *A. (T.) oyamai* **KURODA & HABE, 1954**

Ōyama-kome-tsubu-gai

- Type locality: off Zushi, eastern Sagami bay; 30-150 m., fine sand.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, Japan Sea (Wakasa bay; J2-J1), EC5, East China Sea.

G4884 *A. (T.) oryzaella* **HABE, 1956**

Ko-gome-tsubu-gai

- Type locality: Obama bay, Fukui prefecture (Japan Sea).
- Distribution: Japan Sea (Obama bay; off Mishima); Tosa bay (southern Shikoku).

G4885 *A. (T.) bplex* **(A. ADAMS, 1850-h)**

- Type locality: 'China Sea'.
- Distribution: western Kyūshū, East China Sea.
- Habitat: 10-50 m., sand.
- Original genus: *Bulla*.

G4886 *A. (T.) coarctata* **(A. ADAMS, 1850-h)**

Ō-kome-tsubu-gai

- Type locality: Ticao island, Philippines; 6 fms., coral sand.
- Distribution: Amami Ōshima and southwards, ECP3-ECP2, P2; Philippines.
- Habitat: intertidal to 10 m., sandy mud.
- Original genus: *Bulla*.

G4887 *A. (T.) hawaiiensis* **PILSBRY, 1921**

Hawai-tsurara-gai

- Type locality: 'Off Launiopoko Camp, near Lahaina, West Maui, Hawaii'
- Distribution: Ogasawara islands (FUKUDA, 1994); northern Marianas, Hawaii.

□ Genus *Cylichnatys* **KURODA & HABE, 1952-a**

Type species: *Bulinella striata* YAMAKAWA, 1911 (o. d.); = *Haminea angusta* GOULD, 1859)

G4888 *C. angusta* **(GOULD, 1859 in 1859-61)**

(= *Bulinella striata* YAMAKAWA, 1911; *Cylichna yamakawai* YOKOYAMA, 1920; *C. asamushiensis* NOMURA, 1939-a; *C. kesenumaensis* NOMURA, 1939-a)

Kamisuji-kaiko-gai-damashi

- Type locality: 'Simoda' (Shimoda, Izu peninsula, central Honshū).
- Distribution: southern Hokkaidō and southwards, P10-P5, Seto inland sea, Japan Sea (Noto peninsula; J2-J1), EC5.

- Habitat: 5-100 m., muddy bottom in bays.

- Original genus: *Haminea*.

G4889 *C. strigosus* **(A. ADAMS, 1862-a)**

• Type locality: 'Tabu-Sima' (Tobishima, Japan Sea off Yamagata prefecture); 25 fms.

- Distribution: 'Japan Sea coast at 39° N.' (KURODA & HABE, 1952-a).

Superfamily **DIAPHANOIDEA ODHNER, 1914**

Family **DIAPHANIDAE ODHNER, 1914**

□ Genus *Diaphana* **BROWN, 1827**

Type species: *Diaphana minuta* BROWN, 1827  
(= *Amphisphyra* LOVÉN, 1846; *Physema* A. ADAMS, 1854)

G4890 *D. watanabei* **HABE, 1976-e**

Awa-tsubu-gai

- Type locality: Dajima, Oga peninsula (Akita prefecture, Japan Sea).
- Distribution: recorded only from type locality.

G4891 *D. sakuraii* **HABE, 1976-e**

Hekomi-awa-tsubu-gai

- Type locality: 'off Zushi on the coast of Sagami Bay, Kanagawa Prefecture, Honshū' corrected to 'off Kashimanada (sic), Ibaraki Prefecture, Honshū, at a depth of 200 to 400 m., sandy mud (from the stomach of a zoarchid fish, *Lycodes* sp.)' (HASEGAWA & SAITŌ, 1995).
- Distribution: known only from types.

G4892 *D. tibi* **HABE, 1976-e**

Migaki-awa-tsubu-gai

- Type locality: off Kuji, Iwate prefecture, northeastern Honshū; ± 200 m.
- Distribution: recorded only from type locality.

Superfamily **BULLOIDEA RAFINESQUE, 1815**

Family **BULLIDAE RAFINESQUE, 1815**

(Refs.: Habe, 1950-b)

□ Genus *Bulla* **LINNAEUS, 1758**

Type species: *Bulla ampulla* LINNAEUS, 1758 (s. d.

GRAY, 1847)

(= *Bullus* MONTFORT, 1810; *Bullites* SCHLOTHEIM, 1813 non GMELIN, 1791; *Bullaria* auct. non RAFINESQUE, 1815; *Bullea* BLAINVILLE, 1825 non RAFINESQUE, 1815; *Vesica* SWAINSON, 1840; *Quibulla* IREDALE, 1929)

G4893 *B. ampulla* **LINNAEUS, 1758**

(= *B. ovumvanelli* RÖDING, 1798; *B. ampullastriata* RÖDING, 1798; *B. columbellaris* MENKE, 1854; *B. bifasciata* MENKE, 1854; *B. trifasciata* SOWERBY, 1868; *B. selina* IREDALE, 1929)

Taiwan-natsume

- Type locality: 'ad ins. Mauritii, Jamaicam, Barbados'.

- Distribution: southern Kyūshū and southwards, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal in seaweeds.

G4894 *B. vernicosa* GOULD, 1859 in 1859-61

(= *B. marmorea* PEASE, 1861 non SCHRÖTER, 1804; *B. ovula* SOWERBY, 1868; *B. peasiana* PILSBRY, 1893; *B. vernicosa ovulum sensu* IWAKAWA, 1919; *B. subtropicalis* POWELL, 1965)

Natsume-gai

- Type locality: 'Loo Choo' (Okinawa).
- Distribution: Fukushima prefecture and southwards, P8-P5, Japan Sea (northern Yamaguchi prefecture; J1), EC5, ECP4-ECP2, P2; Philippines, Pacific, northern New Zealand.
- Habitat: intertidal to 30 m., rocks and gravel.

G4895 *B. punctulata* A. ADAMS in SOWERBY, 1850 in 1842-87

(= *B. punctata* A. ADAMS in SOWERBY, 1850 in 1842-87 non SCHRÖTER, 1804; *B. quoyana* DALL, 1919; *B. peasiana sensu* KURODA, 1941 non PILSBRY, 1894; *B. orientalis* HABE, 1950-b)

Ko-natsume-gai

- Type locality: 'China Sea'.
- Distribution: Japan Sea (northern Yamaguchi prefecture FUKUDA & FUKUDA, 1990; J1), Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-western Pacific to Australia, western USA.
- Habitat: intertidal to subtidal.

G4896 *B. difficilis* HABE, 1950-b

Hime-natsume-gai

- Type locality: 'Great Loo Choo, Okinawa Group' (Okinawa island).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2.
- Habitat: intertidal to subtidal.

G4897 *B. buplicata* A. ADAMS, 1850-h

- Type locality: 'China Sea'.
- Distribution: 'Pacific side?' (KURODA & HABE, 1952-a).

□ Genus *Leucophysema* DALL, 1908-c

Type species: *Bulla abyssicola* DALL, 1881 (o. d.)

G4898 *L. japonica* HABE, 1976-e

Watazoko-budō-gai

- Type locality: off Chōshi (Chiba prefecture, central Honshū); ± 250 m.
- Distribution: recorded only from type locality.

Family HAMINOEIDAE PILSBRY, 1895-b

**Note:** *Bulla pygmaea* A. ADAMS, 1850-h (type locality: Port Lincoln, South Australia) was recorded from 'Japan' by

HABE (1947: Yume-Hamaguri (19): 19, no. 187). The present authors have been unable to confirm the presence of this species in Japan.

□ Genus *Haloa* PILSBRY, 1921-a

Type species: *Haminea crocata* PEASE, 1860 (o. d.)

(= *Penthominea* IREDALE, 1929; *Parahaminea* KURODA & HABE, 1952-a; *Vitreohaminea* KURODA & HABE, 1952-a)

Subgenus *Haloa* s. str.

G4899 *H. (H.) binotata* (PILSBRY, 1895-a)

Niku-iro-budō-gai

- Type locality: Yaeyama islands, southern Okinawa prefecture.
- Distribution: Mie prefecture (Aritaki; Kii-Nagashima MATSUMOTO, 1979) and southwards, P6-P5, Seto inland sea, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5, ECP4-ECP2, P2; Philippines.
- Habitat: intertidal on seaweed.
- Original genus: *Haminea*.

G4900 *H. (H.) japonica* (PILSBRY, 1895-a)

(= *Haminea flavescens sensu* IWAKAWA, 1919 non A. ADAMS, 1850-h; *Haminea cymbalum sensu* HABE, 1945 non QUOY & GAIMARD, 1835; *Haloa rotundata* (A. ADAMS) *sensu* HABE, 1952-b non A. ADAMS, 1850) Budō-gai (= Tsuya-budō; Kohaku-budō)

- Type locality: Nemoto, Bōsō peninsula (Chiba prefecture, central Honshū).
- Distribution: southern Hokkaidō and southwards, P10-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5; Korea.
- Habitat: intertidal in tide pools to 50 m., among green seaweeds.
- Original genus: *Haminea* (as ssp. of *H. binotata*).

G4901 *H. (H.) margaritoides* KURODA & HABE in KURODA *et al.*, 1971

Matama-budō-gai

- Type locality: Sagami bay, central Honshū.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, EC5, ECP4-ECP3.
- Habitat: intertidal, among green seaweeds.

G4902 *H. (H.) flavescens* (A. ADAMS, 1850-h)

Ao-budō-gai

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines.
- Habitat: intertidal among seaweed.
- Original genus: *Bulla*.

G4903 *H. (H.) nigropunctata* (PEASE, 1868-c)

(= *Haminea fusca* PEASE, 1868)

- Type locality: 'Raiatea' (Polynesia).

- Distribution: southern Kyūshū and southwards, ECP4-ECP2, P2; Philippines, Polynesia.
- Habitat: intertidal among seaweed.
- Original genus: *Haminea*.

G4904 *H. (H.) rotundata* (A. ADAMS, 1850-h)

(= *Haminea cymbalum sensu* IWAKAWA, 1919 non QUOY & GAIMARD, 1835; *H. japonica sensu* NOMURA, 1939-a (*pars*) non PILSBRY, 1895)  
Usu-kawa-budō-gai

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, ECP4-ECP2, P2; Korea, Philippines.
- Habitat: intertidal among green seaweed.
- Original genus: *Bulla*.

Subgenus *Vitreohaminea* KURODA & HABE in HABE, 1952-b

Type species: *Bulla vitrea* A. ADAMS, 1850 (o. d.)

G4905 *H. (V.) vitrea* (A. ADAMS, 1850-h)

Hari-budō-gai

- Type locality: Mindanao island (Cagayan) and Luzon island, Philippines; in sand.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, southwestern Pacific.
- Habitat: intertidal among green seaweed.
- Original genus: *Bulla*.

Subgenus *Sericohaminea* HABE, 1952-b

Type species: *Haloa (Sericohaminea) yamagutii* HABE, 1952 (mt.)

G4906 *H. (S.) yamagutii* HABE, 1952-b

(= *Haminea vitrea sensu* KURODA, 1941 non A. ADAMS, 1850-h)

Habutae-budō-gai

- Type locality: 'Takao, Formosa' (Kaohsiung, southeastern Taiwan).
- Distribution: Japan Sea (off Mishima), Amami islands and southwards, ECP3-ECP2, P2; Taiwan.
- Habitat: intertidal among green seaweed.

□ Genus *Lamprohaminea* KURODA & HABE in HABE, 1952-b

Type species: *Bulla cymbalum* QUOY & GAIMARD, 1835 (o. d.)

G4907 *L. cymbalum* (QUOY & GAIMARD, 1835 in 1832-35)

(= *Haminea simillima* PEASE, 1868; *Haminea aperta oahuensis* PILSBRY, 1921; *Haminea crocata* PEASE *sensu* OSTERGARD, 1950)

Migaki-budō-gai

- Type locality: 'habite l'île Guam..probablement de la petite baie d'Humata' (Guam, Marianas islands; probably

Umatac bay).

- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, southwestern Pacific, western Australia to Hawaii, Indian Ocean.
- Habitat: intertidal among green seaweed.
- Original genus: *Bulla*.

□ Genus *Liloea* PILSBRY, 1921-a

Type species: *Haminea curta tomaculum* PILSBRY, 1917 (o. d.; = *Bulla curta* A. ADAMS, 1850) (= *Haminocatys* Is. TAKI, 1951)

G4908 *L. curta* (A. ADAMS, 1850-h)

(= *Haminea curta tomaculum* PILSBRY, 1917; *H. olopana* PILSBRY, 1921)

Tōmaki-kaiko-gai

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Hawaii, central Pacific.
- Habitat: 10-50 m., sand.
- Original genus: *Bulla*.

G4909 *L. porcellana* (GOULD, 1859 in 1859-61)

(= *Cylichna laeta* GOULD, 1859 in 1859-61; *C. semisulcata* DUNKER, 1882)

Kaiko-gai-damashi

- Type locality: 'Kagosima Bay' (Kagoshima, southern Kyūshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (Sado island; J3-J1), EC5.
- Habitat: 10-100 m., sand.
- Original genus: *Atys*.

G4910 *L. translucens* (A. ADAMS, 1862-a)

Sukashi-kaiko-gai-damashi

- Type locality: 'Port Hamilton' (Kyobunto island, near Gehaku lighthouse, southern Korea), 10 fms., mud.
- Distribution: Bōsō peninsula and southwards, P7-P5, western Kyūshū; southern Korea.
- Habitat: 10-60 m., sand.

G4911 *L. incisula* YOKOYAMA, 1928

Gotō-kaiko-gai-damashi

- Type locality: Tsumuki shell bed, Noto peninsula (fossil).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2.
- Habitat: 10-60 m., sand.

G4912 *L. nipponensis* (NOMURA & HATAI, 1940)

Nippon-kaiko-gai-damashi

- Type locality: Kyurokushima (island, northern Japan Sea off Aomori prefecture).
- Distribution: 'Japan Sea coast at 41° N.' (KURODA & HABE, 1952-a).
- Original genus: *Cylichna*.



□ Genus *Atys* MONTFORT, 1810 in 1808-10

Type species: *Bulla naucum* LINNAEUS, 1758

G4913 *A. naucum* (LINNAEUS, 1758)

(= *Bulla atys* GMELIN, 1791; *A. cymbalum* MONTFORT, 1810; *Naucum striatulum* SCHUMACHER, 1817; *Bulla ferruginosa* A. ADAMS in SOWERBY, 1850 in 1842-87 non GMELIN, 1791; *B. ovoidea* A. ADAMS in SOWERBY, 1850 in 1842-87 non QUOY & GAIMARD, 1834; *A. obovata* MENKE, 1854; *A. kuhnsi* PILSBRY, 1917; *A. strigata* PILSBRY, 1917)

Tamago-gai

- Type locality: 'in Asia'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific, Australia.
- Habitat: intertidal to 5 m., sand.
- Original genus: *Bulla*.

□ Genus *Aliculastrum* PILSBRY, 1896

(= *Alicula* EHRENBERG, 1831 non EICHWALD, 1830; *Spissitydeus* IREDALE, 1936)

Type species: *Bulla cylindricum* HELBLING, 1779

G4914 *A. cylindricum* (HELBLING, 1779)

(= *Bulla solida* BRUGUIÈRE, 1792 in 1789-1816; *B. elongata* A. ADAMS in SOWERBY, 1850 in 1842-87; *B. succisa* A. ADAMS in SOWERBY, 1850 in 1842-87)

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P6-P5, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: 5-30 m., sand.
- Original genus: *Bulla*.

G4915 *A. secalinum* (A. ADAMS, 1862-a)

- Type locality: Tsushima, western Japan Sea; 25 fms.
- Distribution: Pacific coast at 34° N. (KURODA & HABE, 1952-a).
- Original genus: *Alicula*.

□ Genus *Limatulys* IREDALE, 1936

Type species: *Limatulys reliquus* IREDALE, 1936 (o. d.) (= *Tepidatys* IREDALE, 1936)

G4916 *L. oiformis* HABE, 1952-b

Hoso-tamago-gai (Ko-tamago-gai)

- Type locality: Wakayama prefecture, central Honshū.
- Distribution: Sagami bay and southwards, P6-P5, Seto inland sea, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2.
- Habitat: 10-30 m., sand.

G4917 *L. okamotoi* HABE, 1952-b

Tokkuri-tamago-gai

- Type locality: Hakata bay, northern Kyūshū.
- Distribution: Mie prefecture (Owase, 5-10m.

MATSUMOTO, 1979) and southwards, P6-P5, Seto inland sea, Japan Sea (northern Yamaguchi prefecture; J1), East China Sea.

- Habitat: 5-30 m., among weed on sandy mud.

G4918 *L. constrictus* HABE, 1952-b

(= *L. pyriformis* HABE, 1952-b)

Kubire-tamago-gai

- Type locality: Kowa bay, Mie prefecture, central Honshū.
- Distribution: Suruga bay and southwards, P6-P5, Seto inland sea, western Japan Sea (Tsushima), EC5.
- Habitat: 10-60 m., sandy mud.

G4919 *L. muscarius* (GOULD, 1859 in 1859-61)

(= *Haminea angustatus* GOULD, 1859 in 1859-61)

Midori-tamago-gai (= Usu-midori-tamago-gai)

- Type locality: 'China Seas'.
- Distribution: Sagami bay and southwards, P6-P5, Seto inland sea, Japan Sea (Sado island; J3-J1), EC5, ECP4-ECP2; China.
- Habitat: 10-300 m., sand.
- Original genus: *Atys*.

G4920 *L. tortuosus* (A. ADAMS, 1850-h)

Kubire-midori-tamago-gai

- Type locality: Camaguing island, Philippines; 30 fms., sandy mud.
- Distribution: northeastern Honshū to Kyūshū (SHIMIZU, 1971); 'Pacific coast, 0-34° N.' (KURODA & HABE, 1952-a); Philippines.
- Original genus: *Bulla*.

G4921 *L. scrobiculatus* (A. ADAMS, 1862-a)

• Type locality: 'Tabu-Sima' (Tobishima, Japan Sea off Yamagata prefecture); 25 fms.

- Distribution: Japan Sea coast at 39° N.' (KURODA & HABE, 1952-a).

□ Genus *Nipponatys* KURODA & HABE in HABE, 1952-b

Type species: *Alicula volvulina* A. ADAMS, 1862 (o. d.)

G4922 *N. volvulinus* (A. ADAMS, 1862-a)

Chabo-dama-gai

- Type locality: Tsushima, western Japan Sea; 26 fms.
- Distribution: Mie prefecture (Shima peninsula) and southwards, P6-P5, Japan Sea (Nanao bay, eastern Noto peninsula; J3-J1), EC5.
- Habitat: 10-50 m., sandy mud.
- Original genus: *Alicula*.

□ Genus *Diniatys* IREDALE, 1936

(= *Dinia* H. & A. ADAMS, 1854 in 1853-58 non WALKER, 1854)

Type species: *Bulla dentifera* A. ADAMS, 1850

G4923 *D. dentifera* (A. ADAMS, 1850-h)

Kiba-kaiko-gai

- Type locality: 'Lord Hood's island' (probably Marutea, 21° 30' S., 135° 33' W.), found on *Avicula margaritifera*.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Indo-Pacific, Hawaii.
- Habitat: intertidal to 10 m., mud.
- Original genus: *Bulla*.

G4924 *D. monodonta* (A. ADAMS, 1850-h)

Ipponba-kaiko-gai

- Type locality: 'Shores of Borneo'.
- Distribution: Amami islands and southwards, ECP3-ECP2; Indonesia.
- Habitat: intertidal to 10 m., mud.
- Original genus: *Bulla*.

□ Genus *Mimatys* HABE, 1952-b

Type species: *Mimatys fukuokaensis* HABE, 1952-b

G4925 *M. fukuokaensis* HABE, 1952-b

Keshi-tama-gai

- Type locality: Hakata bay, Fukuoka prefecture, northern Kyūshū.
- Distribution: Hakata bay (Michikiri, Shikanoshima island TAKAHASHI & OKAMOTO, 1969), Tsushima.
- Habitat: 5-20 m., sand.

□ Genus *Micratys* HABE, 1952-b

Type species: *Micratys ovum* HABE, 1952-b (o. d.)

G4926 *Micratys ovum* HABE, 1952-b

Nankin-dama-gai

- Type locality: Kowa bay, Mie prefecture, central Honshū.
- Distribution: Mie prefecture and southwards, P6-P5, western Japan Sea (Tsushima), western Kyūshū.
- Habitat: 5-30 m., sand.

□ Genus *Hamineobulla* HABE, 1950-b

Type species: *Hamineobulla kawamurai* HABE, 1950 (mt.)

G4927 *H. kawamurai* HABE, 1950-b

Suji-natsume-gai

- Type locality: Kakeroma island, Amami islands.
- Distribution: western Kyūshū and southwards, EC5, ECP4-ECP2.
- Habitat: 5-30 m., sand.

Subfamily BULLACTINAE THIELE, 1926

(Refs.: Habe, 1952-b)

□ Genus *Bullacta* BERGH, 1901

Type species: *Bullacta exarata* PHILIPPI, 1849 (mt.) (= *Atyscaphander* ANNANDALE, 1924)

G4928 *B. exarata* (PHILIPPI, 1849-a)

(= *Bulla sinensis* A. ADAMS, 1850; *Bulla cauria* BENSON, 1856; *Sinohaminea tsangkonensis* TCHANG-SI, 1933)

Hina-ginu-gai

- Type locality: northern China.
- Distribution: northern East China Sea; Yellow Sea.
- Original genus: *Bullaea*.

Family SMARAGDINELLIDAE THIELE, 1925

(Refs.: Habe, 1952-b)

□ Genus *Smaragdinella* A. ADAMS, 1848

Type species: *Bulla viridis* QUOY & GAIMARD, 1833 (= *Bulla calyculata* BRODERIP & SOWERBY, 1829) (= *Glauconella* GRAY, 1850; *Linteria* A. ADAMS, 1850-h; *Nona* H. & A. ADAMS, 1854 in 1853-58; *Thecaphorus* H. & A. ADAMS, 1854 in 1853-58)

G4929 *S. calyculata* (BRODERIP & SOWERBY, 1829)

(= *Bulla viridis* QUOY & GAIMARD, 1833)

Midori-gai

- Type locality: 'ad Insulam Pitcairni' (Pitcairn island, southern Pacific).
- Distribution: Izu islands and southwards, Ogasawara islands (Chichijima; Hahajima FUKUDA, 1994-a), P11, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Hawaii to Easter island.
- Habitat: intertidal among green seaweed.
- Original genus: *Bulla*.

G4930 *S. sieboldii* A. ADAMS, 1864-d

(= *Glauconella andersoni* NEVILL, 1871)

Tatejiwa-midori-gai (Daruma-midori-gai)

- Type locality: 'Takano-Sima' (Takanoshima, southern Bōsō peninsula, Chiba prefecture), intertidal.
- Distribution: Ogasawara islands (FUKUDA, 1994), Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (northern Yamaguchi prefecture; J1), EC5, ECP4-ECP2, P2.
- Habitat: intertidal among seaweed, oysters and barnacles.

□ Genus *Phanerophthalmus* A. ADAMS, 1850-h

Type species: *Bulla luteus* QUOY & GAIMARD, 1833 (= *Cryptophthalmus* EHRENBERG, 1831 *non* RAFINESQUE, 1814; *Xanthonella* GRAY, 1850; *Lathophthalmus* PRUVOT-FOL, 1939)

G4931 *P. smaragdinus* (RUEPPELL & LEUCKART, 1831)

(= *Cryptophthalmus olivaceus* EHRENBERG, 1831)

Chōchō-midori-gai

- Type locality: Red Sea.
- Distribution: Okinawa islands and southwards, ECP2, P2; Indo-western Pacific to Hawaii, Indian Ocean, Red Sea.
- Habitat: intertidal to 50 m., among green seaweed.
- Original genus: *Bulla*.

Order SACOGLOSSA IHERING, 1876

Superfamily OXYNOOIDEA G. & H. NEVILL, 1869

Family VOLVATELLIDAE PILSBRY, 1895-b

□ Genus *Ascobulla* MARCUS, 1972

Type species: *Cylindrobulla ulla* MARCUS, 1970 (o. d.)

G4932 *A. japonica* (HAMATANI, 1969)

Iwazuta-budō-gai

- Type locality: Cape Shio, Kii peninsula, central Honshū; intertidal, on rocks among green algae *Caulerpa brachypus* HARVEY.
- Distribution: Kii peninsula and southwards.
- Habitat: intertidal, on weed.
- Original genus: *Cylindrobulla*.

□ Genus *Volvatella* PEASE, 1860

Type species: *Volvatella fragilis* PEASE, 1860  
(= *Artessa* EVANA, 1950)

G4933 *V. vigorouxi* (MONTROUZIER, 1861)

Usu-ginu-budō-gai

- Type locality: New Caledonia.
- Distribution: Okinawa islands and southwards to New Caledonia
- Habitat: intertidal on seagrass.
- Original genus: *Cylindrobulla*.

G4934 *V. ayakii* HAMATANI, 1972

Hime-tama-budō-ginu

- Type locality: Cape Shio, Kii peninsula, central Honshū; intertidal, on rocks, among green algae *Caulerpa brachypus* HARVEY.
- Distribution: recorded only from type locality.
- Habitat: intertidal to low water.

G4935 *V. viridis* HAMATANI, 1976-a

Midori-budō-ginu (= Midori-usu-budō-ginu)

- Type locality: Yoron island (Amami islands).
- Distribution: Kii peninsula and southwards, ECP3-ECP2, P2.
- Habitat: intertidal on *Caulerpa* sp.

Family OXYNOIDAE H. & A. ADAMS, 1854 in 1853-58

□ Genus *Oxynoe* RAFINESQUE, 1814

Type species: *Oxynoe olivacea* RAFINESQUE, 1814  
(= *Oxinoe* BLAINVILLE, 1824; *Icarus* FORBES, 1844; *Lophocercus* KROHN, 1847)

G4936 *O. viridis* (PEASE, 1861)

(= *Microtralia acteocinoides sensu* KURODA & HABA in HABA, 1961-a non KURODA & HABA in HABA, 1961-c)

Nagisa-no-tsuyu

- Type locality: Zanzibar, Indian Ocean.
- Distribution: Sagami bay and southwards, P6-P5, ECP4-ECP2, P2, Japan Sea (Toyama bay, J3-J1), EC5; Indo-Pacific.
- Habitat: intertidal on *Caulerpa racemosa* etc.
- Original genus: *Lophocercus*.

G4937 *O. kabirensis* HAMATANI, 1976

Kabira-no-tsuyu

- Type locality: Kabira bay, Ishigaki island, southern Okinawa prefecture.
- Distribution: Kii peninsula (central Honshū), Kuroshima island (Kagoshima prefecture, southern Kyūshū), Yaeyama islands (Okinawa prefecture).
- Habitat: intertidal on *Caulerpa* sp.

□ Genus *Lobiger* KROHN, 1847

Type species: *Dolabella serradifalci* CALCARA, 1845  
(= *Pterygophysis* FISCHER, 1883; *Dipterophysis* PILSBRY, 1896)

G4938 *L. souverbii* FISCHER, 1856

(= *Elysia sagamiensis* BABA, 1952)

- Type locality: 'West Indies'.
- Distribution: Sagami bay and southwards, P6-P5, EC5, ECP4-ECP2, P2; Indo-Pacific, Australia.
- Habitat: intertidal on *Caulerpa racemosa* etc.

Family JULIIDAE E. A. SMITH, 1885

(= BERTHELINIIDAE CROSSE, 1875; TAMANOVALVIDAE KAWAGUCHI & BABA, 1959)

□ Genus *Julia* GOULD, 1862

Type species: *Julia exquisita* GOULD, 1862 (mt.)  
(= *Prasina* DESHAYES, 1886)

G4939 *J. japonica* KURODA & HABA, 1951

(= *J. exquisita sensu* KURODA, 1935 non GOULD, 1862)  
Yuriya-gai

- Type locality: Nada (fishing port), Gobō district, Wakayama prefecture (Kii peninsula, central Honshū).
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, Japan Sea (northern Yamaguchi prefecture, J2-J1), EC5.
- Habitat: intertidal on seaweeds *Caulerpa* spp.

G4940 *J. zebra* KAWAGUCHI, 1981

Zebura-yuriya-gai

- Type locality: Mishima island, western Japan Sea (off Yamaguchi prefecture).
- Distribution: Ogasawara islands (FUKUDA, 1994), Japan Sea (Tsunoshima; Mishima), ECP3-ECP2, Amami islands and southwards.
- Habitat: intertidal on seaweeds *Caulerpa* spp.

G4941 *J. mishimaensis* KAWAGUCHI & YAMASU, 1982

Mishima-yuriya-gai

- Type locality: Mishima island, western Japan Sea, (off Yamaguchi prefecture).
- Distribution: Japan Sea (Tsunoshima; Mishima), Okinawa islands (Ishigaki).
- Habitat: intertidal on seaweeds *Caulerpa* spp.

□ Genus *Berthelinia* CROSSE, 1875

Type species: *Berthelinia elegans* CROSSE, 1875

(= *Edenttelina auct.*; *Tamanovalva* KAWAGUCHI & BABA, 1959)

G4942 *B. limax* (KAWAGUCHI & BABA, 1959)

Tamano-midori-gai

- Type locality: Tamano, Okayama prefecture (Seto inland sea).
- Distribution: western Tōkyō bay, P6-P5, Seto inland sea (Mukaishima KOMATSU, 1986-b), Japan Sea (Toyama bay; J3-J1), EC5, Okinawa islands (Ishigaki).
- Habitat: intertidal on *Caulerpa racemosa* etc.
- Original genus: *Tamanovalva*.

Order ANASPIDEA FISCHER, 1883

Superfamily AKEROIDEA PILSBRY, 1895-b

Family AKERIDAE PILSBRY, 1895-b

(Refs.: Habe, 1950-b)

□ Genus *Akera* O. F. MÜLLER, 1776

Type species: *Akera bullata* O. F. MÜLLER, 1776  
(= *Vitrella* SWAINSON, 1840; *Eucampa* LEACH in GRAY, 1847; *Aceras* LOCARD, 1886)

G4943 *A. soluta* (GMELIN, 1791)

(= *A. constricta sensu* KURODA, 1947; KURODA & HABA, 1952-a)

Utsu-semi-gai (= Minawa-gai)

- Type locality: 'in Zeylon' (Sri Lanka).
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, EC5, ECP3-ECP2.
- Habitat: subtidal to 30 m., among seaweeds.
- Original genus: *Bulla*.

Order NOTASPIDEA FISCHER, 1883

Superfamily TYLODINOIDEA GRAY, 1847

Family UMBRACULIDAE DALL, 1889

□ Genus *Umbraculum* SCHUMACHER, 1817

Type species: *Patella sinica* GMELIN, 1791 (= *Patella umbraculum* LIGHTFOOT, 1786)  
(= *Patella* LIGHTFOOT, 1786 non LINNAEUS, 1758; *Acado* LAMARCK, 1801 non COMMERCON, 1792; *Gastroplox* BLAINVILLE, 1819; *Umbrella* LAMARCK, 1819; *Ombrella* BLAINVILLE, 1824; *Spiricella* RANG in RANG & DESMOULINS, 1827; *Umbella* D'ORBIGNY, 1841; *Operculatum* H. & A. ADAMS, 1854)

Subgenus *Umbraculum s. str.*

G4944 *U. (U.) umbraculum* (LIGHTFOOT, 1786)

(= *Patella sinica* GMELIN, 1791; *U. chinense* SCHUMACHER, 1817; *Umbrella indica* LAMARCK *sensu* IWAKAWA, 1919)

Hitoe-gai

- Type locality: 'China'.
- Distribution: Bōsō peninsula and southwards, P7-P5, western Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific,

Caribbean, Florida.

- Habitat: intertidal to 30 m., among sponges.
- Original genus: *Patella*.

Order THECOSOMATA BLAINVILLE, 1824

Family LIMACINIDAE FÉRUSSAC, 1822

□ Genus *Limacina* BOSC, 1817

Type species: *Clio helicina* PHIPPS, 1774

(= *Spiratella* BLAINVILLE, 1817; *Heliconoides* D'ORBIGNY, 1836; *Heterofusus* FLEMING, 1823; *Spirialis* EYDOUX & SOULEYET, 1840; *Helicophora* GRAY, 1842; *Scaea* PHILIPPI, 1844; *Valvatina* BORNEMANN, 1855; *Protomedea* DACOSTA, 1861 non BLAINVILLE, 1830; *Embolus* JEFFREYS, 1869 non SELENKE, 1867)

G4945 *L. helicina* (PHIPPS, 1774)

Mijin-uki-maimai

- Distribution: northern seas around 43° N. worldwide.
- Original genus: *Clio*.

G4946 *L. inflata* (D'ORBIGNY, 1836)

Hira-uki-maimai (= Hira-maki-uki-maimai)

- Distribution: worldwide in tropical and temperate zones.
- Habitat: pelagic.
- Original genus: *Atlanta*.

G4947 *L. trochiformis* (D'ORBIGNY, 1836)

Koshidaka-uki-maimai

- Distribution: worldwide in tropical and temperate zones.
- Habitat: pelagic.
- Original genus: *Atlanta*.

G4948 *L. lesueuri* (D'ORBIGNY, 1836)

- Distribution: worldwide in tropical and temperate zones.
- Habitat: pelagic.
- Original genus: *Atlanta*.

G4949 *L. bulimoides* (D'ORBIGNY, 1836)

Seitaka-uki-maimai (= Tawara-nari-uki-maimai)

- Distribution: worldwide in tropical and temperate zones.
- Habitat: pelagic.
- Original genus: *Atlanta*.

Family CAVOLINIIDAE D'ORBIGNY, 1842

Subfamily CAVOLINIINAE D'ORBIGNY, 1842

□ Genus *Cavolinia* ABILDGAARD, 1791

Type species: *Anomia tridentata* FORSKÅL, 1775

(= *Cavolina* BRUGUIÈRE, 1791; *Anomia* FORSKÅL, 1775 non LINNAEUS, 1758; *Rheda* HUMPHREY, 1797; *Hyalaea* LAMARCK, 1799; *Archonta* MONTFORT, 1810; *Tricla* OKEN, 1815; *Pleuropus* ESCHSCHOLTZ, 1825 non RAFINESQUE, 1815; *Cavolinia* MENKE, 1844; *Potamius* GISTL, 1848; *Fabius* GISTL, 1848 non DUNCAN, 1837; *Orbignya* A. ADAMS, 1859)

G4950 *C. tridentata* (FORSKÅL, 1775)

(= *Monoculus telemus auct. non* LINNAEUS, 1758; *Pleuropus longifera* TROSCHER, 1863; *Hyalaea complanata* GEGENBAUR, 1855; *H. gibbosa sensu* IWAKAWA, 1919; *Cavolina telemus sensu* S. HIRASE, 1934.

Kame-gai

- Distribution: worldwide in tropical and temperate seas.
- Original genus: *Anomia*.

G4951 *C. uncinata* (RANG in D'ORBIGNY, 1843)

Kuri-iro-kame-gai

- Type locality: 'l'Océan atlantique'.
- Distribution: worldwide in tropical and temperate seas.
- Original genus: *Hyalaea*.

G4952 *C. globulosa* GRAY, 1850

Maru-kame-gai

- Distribution: worldwide in tropical and temperate seas.

G4953 *C. gibbosa* (D'ORBIGNY, 1836)

Shiro-kame-gai

- Distribution: worldwide in tropical and temperate seas.
- Original genus: *Hyalaea*.

G4954 *C. inflexa* (LESUEUR, 1813)

(= *Hyalaea labiata* D'ORBIGNY, 1836; *Cleodora curvata* SOULEYET, 1852)

Masako-kame-gai

- Distribution: worldwide in warm currents.

□ Genus *Diacavolina* VAN DER SPOEL, 1987

Type species: *Cavolinia longirostris* BLAINVILLE, 1821 (o. d.)

(Refs.: Kobayashi & Terazaki, 1995)

G4955 *D. pacifica* VAN DER SPOEL in VAN DER SPOEL *et al.*, 1993

Sasa-no-tsuyu

(= *Hyalaea longirostris sensu* IWAKAWA, 1900 *non* BLAINVILLE, 1821; *Cavolinia longirostris sensu* S. HIRASE, 1934; HABA, 1964 *non* BLAINVILLE, 1821; *C. longirostris angulata sensu* HABA, 1964 *non* SOULEYET, 1852)

- Type locality: 'Snellius II' sta. 33 (cast 2): 06° 9.9' S., 131° 9.2' E., 98-280 m.
- Distribution: worldwide in tropical and temperate seas.

G4956 *D. vanutrechtii* VAN DER SPOEL, 1993

Kubire-saza-no-tsuyu

- Distribution: off central Japan (KOBAYSHI & TERAZAKI, 1995); worldwide in warm seas.
- Habitat: pelagic.

G4957 *D. angulosa* (GRAY, 1850)

Maruse-saza-no-tsuyu

- Distribution: off central Japan (KOBAYSHI & TERAZAKI, 1995); worldwide in warm seas.

- Habitat: pelagic.

- Original genus: *Cavolina* (as form of *D. longirostris*).

□ Genus *Diacria* GRAY, 1842

Type species: *Hyalaea trispinosa* LESUEUR, 1821

(= *Pleuropus* PFEFFER, 1879 *non* ESCHSCHOLTZ, 1825)

G4958 *D. trispinosa* LESUEUR, 1821

(= *Hyalaea trispina* LESUEUR *sensu* IWAKAWA, 1919)

Hira-kame-gai

- Type locality: 'West Indies'.
- Distribution: worldwide in tropical and temperate seas.
- Original genus: *Hyalaea*.

G4959 *D. quadridentata* (LESUEUR, 1821)

(= *Pleuropus costata* PFEFFER, 1879; *Cleodora pygmaea* BOAS, 1886)

Kiyoko-kame-gai

- Type locality: 'West Indies'.
- Distribution: worldwide in tropical and temperate seas.
- Original genus: *Hyalaea*.

Subfamily CLIONAE JEFFREYS, 1869

(= CLIONAE *auct.*)

□ Genus *Clio* LINNAEUS, 1767

Type species: *Clio pyramidata* LINNAEUS, 1767

(= *Cleodora* PÉRON & LESUEUR, 1810; *Balantium* CHILDREN in GRAY, 1823; *Flabellum* BELLARDI, 1872; *Poculina* BELLARDI, 1872; *Euclio* BONNEVIE, 1914; *Proclio* HUBENDICK, 1952)

G4960 *C. pyramidata* LINNAEUS, 1767

(= *Euclio pyramidata forma lata* BOAS, 1886; *E. p. forma angusta* BOAS, 1886; *E. pyramidata lanceolata* (LESUEUR) *sensu* TOKIOKA, 1960)

Uki-bishi-gai

- Type locality: 'Oceano' (*sic*).
- Distribution: worldwide in warm currents.
- Habitat: pelagic, among plankton.

G4961 *C. chaptali* SOULEYET in EYDOUX & SOULEYET, 1852

Fukami-uki-bishi

- Type locality: 'par le travers du cap de Bonne-Espérance' (off Cape of Good Hope, South Africa).
- Distribution: worldwide in warm currents at 1000-3000 m.
- Habitat: pelagic, among plankton.

G4962 *C. fulcata* (BONNEVIE, 1914)

Migaki-uki-bishi

- Type locality: Atlantic Ocean.
- Distribution: worldwide in warm currents.
- Habitat: pelagic, among plankton.
- Original genus: *Euclio*.

G4963 *C. balantium* (RANG in D'ORBIGNY, 1843)

Daiō-uki-bishi

- Type locality: 'dans le grand Ocean austral, 41° S., 83° E.' (central southern Indian Ocean).
- Distribution: worldwide in warm currents, to 5600 m.
- Habitat: pelagic, among plankton.
- Original genus: *Hyalaea*.

G4964 *C. polita* (PELSENEER, 1888)

- Distribution: worldwide in warm seas (found around Japan at 2000-4000 m.)
- Habitat: pelagic, among plankton.

□ Genus *Creseis* RANG, 1828

Type species: *Creseis virgula* RANG, 1828  
(= *Crisia* MENKE, 1844; *Boasia* JOHNSON, 1934)

G4965 *Creseis virgula* RANG, 1828

(= *Cleo* (*Creseis*) *virgula forma conica* ESCHSCHOLTZ, 1829 in 1829-33)

Tsume-uki-tsuno-gai

- Type locality: 'Habite l'Océan atlantique et les Antilles ou elle se trouve sur les Fucus natans avec la C. spinifera'.
- Distribution: worldwide in tropical and temperate seas.
- Habitat: pelagic, among plankton.

G4966 *Creseis acicula* (RANG, 1828)

(= *Cleo* (*Creseis*) *acicula forma ilava* RANG, 1828)

Uki-tsuno-gai

- Type locality: 'l'Océan et la mer des Indes' (East Indies).
- Distribution: worldwide in warm currents.
- Habitat: pelagic, among plankton.
- Original genus: *Cleo* (*Creseis*).

□ Genus *Styliola* GRAY, 1850

Type species: *Cleodora subula* QUOY & GAIMARD, 1827

G4967 *S. subula* (QUOY & GAIMARD, 1827)

Suji-uki-tsuno-gai (= Kado-uki-tsuno-gai)

- Type locality: Atlantic Ocean.
- Distribution: worldwide in warm currents.
- Habitat: pelagic, among plankton.
- Original genus: *Cleodora*.

□ Genus *Hyalocylix* FOL, 1875

Type species: *Creseis striata* RANG, 1828 (mt.)  
(= *Hyalocylix* P. FISCHER, 1883)

G4968 *H. striata* (RANG, 1828)

(= *Cleodora compressa* ESCHSCHOLTZ, 1829 in 1829-33)

Yokosuji-uki-tsuno-gai

- Type locality: 'l'Océan atlantique et la mer des Indes'.
- Distribution: worldwide in warm currents.
- Habitat: pelagic, among plankton.
- Original genus: *Creseis*.

Subfamily CUVIERININAE GRAY, 1840

□ Genus *Cuvierina* BOAS, 1886

Type species: *Cuvieria columnella* RANG, 1827 (mt.)  
(= *Cuvieria* RANG, 1827 non LESUEUR, 1807; *Herse* GISTL, 1848 non OKEN, 1815; *Hyperia* GISTL, 1848 non LATREILLE, 1829; *Rangistela* PRUVOT-FOL, 1946)

G4969 *C. columnella columnella* (RANG, 1827)

Uki-zutsu-gai

- Type locality: none designated.
- Distribution: worldwide in tropical and temperate seas.
- Habitat: pelagic, among plankton.
- Original genus: *Cuvieria*.

G4970 *C. columnella urceolaris* (MÖRCH, 1852)

Tsubo-uki-zutsu

- Distribution: worldwide in tropical and temperate seas.
- Habitat: pelagic, among plankton.

Superorder PULMONATA CUVIER, 1817

Order BASOMMATOPHORA SCHMIDT, 1855

Superfamily AMPHIBOLOIDEA GRAY, 1840

Family AMPHIBOLIDAE GRAY, 1840

□ Genus *Salinator* HEDLEY, 1900

Type species: *Ampullaria fragilis* LAMARCK, 1822 (o. d.)

G4971 *Salinator takii* KURODA, 1928-b

Umi-maimai

- Type locality: Kurosaki, Ariake inland sea, western Kyūshū (Fukuoka prefecture); mud.
- Distribution: Seto inland sea (Fukuyama), Japan Sea (Toyoura-cho, western Yamaguchi prefecture), Ariake inland sea.
- Habitat: tidal flats, mud.

Superfamily SIPHONARIOIDEA GRAY, 1840

Family SIPHONARIIDAE GRAY, 1840

□ Genus *Siphonaria* SOWERBY I, 1823

Type species: *Patella laciniosa* LINNAEUS, 1758  
(= *Liria* GRAY, 1847; *Habesiphon*, *Legosiphon*, *Mallorsiphon*, *Triellisiphon*, all IREDALE, 1940; *Ductosiphonaria* HUBENDICK, 1945)

Subgenus *Siphonaria s. str.*

G4972 *S. (S.) javanica* (LAMARCK, 1819 in 1815-22)

(= *S. siphonaria* SOWERBY, 1828; *S. cornuta* GOULD, 1846; *S. laciniosa sensu* KURODA & HABE, 1952-a; KIRA, 1959; MINATO in SAKURAI, 1986)

Kōdaka-karamatsu

- Type locality: Java, Indonesia.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2; southeast Asia.
- Habitat: intertidal, on rocks.
- Original genus: *Patella*.

G4973 *S. (S.) rucuana* PILSBRY, 1904-b

Kobito-karamatsu

- Type locality: 'Ryūkyū' (Okinawa islands).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2.
- Habitat: intertidal, on rocks and coral.

Subgenus *Parellsiphon* IREDALE, 1940

Type species: *Parellsiphon zanda* IREDALE, 1940 (o. d.)

G4974 *S. (P.) siquijorensis* REEVE, 1856 in 1843-65  
(= *S. zebra* REEVE *sensu* KURODA, 1941; KURODA & HABE, 1952-a)

Hōrai-karamatsu

- Type locality: 'Island of Siquijor, Philippines'.
- Distribution: Amami islands (Tokunoshima) and southwards, ECP2, P2; Philippines.
- Habitat: intertidal, on rocks.

Subgenus *Sacculosiphonaria* HUBENDICK, 1945

Type species: *Patella japonica* DONOVAN, 1824 (o. d.)

G4975 *S. (Sacculosiphonaria) japonica* (DONOVAN, 1824 in 1823-27)  
(= *S. cochleariformis* REEVE, 1856)

Karamatsu-gai

- Type locality: Japan.
- Distribution: southern Hokkaidō and southwards, P9-P5, Japan Sea (Akita prefecture, J4-J1), EC5; Korea, northern China.
- Habitat: intertidal, on rocks.
- Original genus: *Patella*.

Notes: see PILSBRY (1921-b).

Subgenus *Planesiphon* IREDALE, 1940

Type species: *Planesiphon soranus* IREDALE, 1940 (o. d.)

G4976 *S. (Planesiphon) acmaeoides* PILSBRY, 1894-a  
Shiro-karamatsu-gai

- Type locality: 'Boshiu, Japan' (Bōsō peninsula, Chiba prefecture, central Honshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2; Korea.
- Habitat: intertidal, on rocks.

Subgenus *Anthosiphonaria* KURODA & HABE in KURODA *et al.*, 1971

Type species: *Siphonaria sirius* PILSBRY, 1894 (o. d.)

G4977 *S. (Anthosiphonaria) sirius* PILSBRY, 1894-a  
Kiku-no-hana-gai

- Type locality: 'Sagami and Kashiurazaki, Boshiu, Japan' (Sagami bay and Kashiwajima, central Honshū).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2; Korea.
- Habitat: intertidal, on rocks.

Subgenus *Mestosiphon* IREDALE, 1940

Type species: *Mestosiphon eumelas* IREDALE, 1940 (o. d.)

G4978 *S. (Mestosiphon) lacinosus* (LINNAEUS, 1758)  
(= *S. atra* QUOY & GAIMARD, 1833; *S. atrata* QUOY & GAIMARD, 1833; *S. coreensis* ADAMS & REEVE, 1850 in 1848-50; *S. subatra* PILSBRY, 1904; *S. oppositus* IREDALE, 1940; *S. parmelas* IREDALE, 1940; *S. eumelas* IREDALE, 1940)

Kuro-karamatsu (= Hira-karamatsu)

- Type locality: 'in India'.
- Distribution: Ogasawara islands (Chichijima; Anijima; Minamijima FUKUDA, 1994-a) and southwards, Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; Philippines to Samoa.
- Habitat: intertidal, on rocks and coral.
- Original genus: *Patella*.

□ Genus *Siphonacmea* HABE, 1958-j

Type species: *Acmaea oblongata* YOKOYAMA, 1926 (o. d.)

G4979 *Siphonacmea oblongata* (YOKOYAMA, 1926)

(= *Acmaea angustitesta* YOKOYAMA, 1926; *Liliora okudai* HABE *sensu* KURODA & KINOSHITA, 1951)  
Kita-no-karamatsu

- Type locality: Sado island, Japan Sea (fossil).
- Distribution: northeastern Honshū (Ōtsuchi bay TSUCHIDA *et al.*, 1998; Miyagi prefecture and northwards), P8-P10, Japan Sea (Oga peninsula, J4-J6), OP, Okhotsk Sea; Sakhalin.
- Habitat: intertidal, on seaweeds.

□ Genus *Williamia* MONTEROSATO, 1884

Type species: *Ancylus gussoni* O. G. COSTA, 1829 (o. d.)  
(= *Brondelia* BOURGIGNAT, 1862 *suppr.*, ICZN op. 1410; *Scutulium* MONTEROSATO, 1877 *non* TOURNOUER, 1869; *Allerya* MÖRCH, 1877 *non* BOURGIGNAT, 1876; *Parascutum* COSSMANN, 1891; *Roya* IREDALE, 1912; *Aporemodon* ROBSON, 1913)  
(Refs.: Marshall, 1981)

G4980 *W. radiata* (PEASE, 1860-b)

(= *W. japonica* HABE, 1962; *W. polynesisca* REHDER, 1980)

- Type locality: 'Sandwich Islands' (Hawaii).
- Distribution: Ogasawara islands (Chichijima; Hahajima FUKUDA, 1994-a), Suruga bay and southwards, P6-P5, Japan Sea (northern Hyōgo prefecture, J2-J1), EC5, ECP4-ECP2, P2; western Pacific to Australia, New Caledonia, Hawaii.
- Habitat: subtidal, on rocks.
- Original genus: *Tectura*.

G4981 *W. eximia* (NEVILL in G. & H. NEVILL, 1869)

Akoya-zara

- Type locality: southern Ceylon (Sri Lanka).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2; Indo-Pacific.
- Habitat: intertidal on rocks.
- Original genus: *Broderipia*.

**Notes:** placement of *W. eximia* in *Williamia* is provisional; it is normally placed in *Roya* (e.g. HIGO & GOTÔ, 1993), which MARSHALL (1981) synonymises with *Williamia*. Further study of this species is necessary.

Order **EUPULMONATA HASZPRUNAR & HUBER, 1990**

Suborder **ACTOPHILA THIELE, 1926**

Superfamily **ELLOBIOIDEA H. & A. ADAMS, 1855 in 1853-58**

Family **ELLOBIIDAE H. & A. ADAMS, 1855 in 1853-58**

(= AURICULIDAE GRAY, 1824; CARYCHIIDAE ODHNER, 1925 *sensu* HABE, 1961; KURODA, 1963) (Refs. Martins, 1996; Fukuda *et al.*, 1990; Fukuda, 1996)

Subfamily **ELLOBIINAE H. & A. ADAMS, 1855 in 1853-58**

□ Genus ***Ellobium* RÖDING, 1798**

Type species: *Bulla aurismidae* LINNAEUS, 1758 (s. d. GRAY, 1847)

(= *Auricula* LAMARCK, 1799; *Auriculus* MONTFORT, 1810 in 1808-10; *Marsyas* OKEN, 1815; *Geovula* SWAINSON, 1840)

G4982 ***E. chinense* (PFEIFFER, 1854-b)**

(= *Auricula reiniana* KOBELT, 1876-b)

Oka-mimi-gai

- Type locality: China.
- Distribution: Tōkyō bay and southwards, P6-P5, Seto inland sea, Japan Sea (northern Yamaguchi prefecture, J1), western Kyushu (Ōmura bay; Ariake inland sea), EC5.
- Habitat: intertidal in river mouth; between roots of reeds.
- Original genus: *Auricula*.

□ Genus ***Auriculodes* STRAND, 1928**

Type species: *Auricula gangetica* BENSON in PFEIFFER, 1855 (o. d.)

(= *Auriculina* KOBELT, 1898 *non* GRATELOUP, 1838, *nec* GRAY, 1847; *Auricella* MÖLLENDORFF, 1898 *non* JURINE, 1817)

G4983 ***A. pallidum* (SOWERBY II, 1839)**

(= *Ellobium incrassatum* H. & A. ADAMS, 1854-b; *Auricula (Leuconia) opportuna* GOULD, 1859-b)

Kohaku-oka-mimi-gai

- Type locality: none designated.
- Distribution: Okinawa island, ECP2 and Miyako island, P2.

- Habitat: intertidal in mangrove swamps, among gravels.
- Original genus: *Auricula*.

□ Genus ***Auriculastra* MARTENS, 1880-a**

Type species: *Auricula subula* QUOY & GAIMARD, 1832 (s. d. MARTENS, 1897-b) (Refs.: Martins, 1994)

G4984 ***A. subula* (QUOY & GAIMARD, 1832)**

(= *Auricula elongata* PARREYS in KÜSTER, 1845; *Ellobium oparicum* H. & A. ADAMS, 1854-b)

Naga-oka-mimi-gai

- Type locality: 'habite l'havre Carteret, a la Nouvelle-Irlande' (Kilinaiiu (Carteret) island, off Bougainville, Solomon islands).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Taiwan, Hong Kong, Thailand, Philippines, central Pacific.
- Habitat: intertidal in mangrove swamps, among gravels.
- Original genus: *Auricula*.

G4985 ***A. duplicata* (PFEIFFER, 1854-b)**

Narabi-oka-mimi-gai

- Type locality: none designated.
- Distribution: Aichi prefecture and southwards, P6-P5, Japan sea (J1), EC5, ECP3-ECP2; China.
- Habitat: intertidal in river mouth; between roots of reeds or mangroves.
- Original genus: *Melampus*.

G4986 ***A. saccata* (PFEIFFER, 1854-a)**

Fukuro-nari-oka-mimi-gai

- Type locality: 'Manila' (Philippines).
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines.
- Habitat: intertidal in mangrove swamps, among gravels.
- Original genus: *Auricula*.

□ Genus ***Cylindrotis* MÖLLENDORFF in QUADRAS & MÖLLENDORFF, 1895**

Type species: *Cylindrotis quadrasi* MÖLLENDORFF, 1895 (o. d.)

G4987 ***C. quadrasi* MÖLLENDORFF in QUADRAS & MÖLLENDORFF, 1895**

Nazumi-gai

- Type locality: Negros island, Philippines.
- Distribution: northern Okinawa island (FUKUDA, 1X); Philippines (Masbate and Culion islands), Thailand.
- Habitat: soft mud among mangroves.

□ Genus ***Blauneria* SHUTTLEWORTH, 1854**

Type species: *Tornatellina cubensis* PFEIFFER, 1842 (= *Voluta heteroclita* MONTAGU, 1808) (mt.)

G4988 ***Blauneria quadrasi* MÖLLENDORFF in QUADRAS & MÖLLENDORFF, 1895**



Sakamaki-oka-mimi-gai

- Type locality: Masbate island, Philippines.
- Distribution: Ryūkyū islands (FUKUDA, 1996), ECP2, P2; Philippines (Cebu HABE, 1980-c).
- Habitat: intertidal in mouth of river; among glavels of mangrove swamp.

Subfamily **PYTHIINAE ODHNER, 1925**

□ Genus *Pythia* RÖDING, 1798

Type species: *Helix scarabaeus* LINNAEUS, 1758  
(= *Polydonta* FISCHER, 1807; *Scarabus* MONTFORT, 1810; *Strigula* PERRY, 1811; *Scarabaea* OKEN, 1817; *Scarabaeus* BLAINVILLE, 1821 non LINNAEUS, 1758; *Phytia* GRAY, 1821 err.; *Polydonta* FÉRUSAC, 1829 in 1819-32 non MÜHLFELD, 1811)

G4989 *P. pantherina* (A. ADAMS, 1851-b)

(= *Scarabus pyramidatus* KIENER, 1852)

Madara-hira-shii-no-mi

- Type locality: 'Siquejor, Philippines, woods, under stones'.
- Distribution: Yaeyama islands and southwards, P2; Taiwan, Philippines.
- Habitat: supratidal, among mangrove roots.
- Original genus: *Scarabus*.

G4990 *P. nana* BAVAY, 1908

Hime-hira-shii-no-mi

- Type locality: 'Liu-Kiu' (Okinawa islands).
- Distribution: Endemic to Okinawa island (Cape Hedo; Hanechi inland sea; Sashiki and Itoman) and Kume island.
- Habitat: supratidal, among stones and on gravel.

G4991 *P. pachyodon* PILSBRY & HIRASE, 1908

(= *P. aegiatis* PILSBRY & HIRASE, 1908)

Kuro-hira-shii-no-mi (= Ō-hira-shii-no-mi)

- Type locality: 'Loo Choo and Oshima in the Ryukyu Ids.' (Okinawa and Amami Ōshima).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2.
- Habitat: supratidal, among mangrove roots.

G4992 *P. cecillii* (PHILIPPI, 1848)

Oki-hira-shii-no-mi

- Type locality: 'China'.
- Distribution: Japan Sea (Hōhoku district, northern Yamaguchi prefecture, FUKUDA et al., 1990; J1), western Kyūshū (Japan sea and Ōmura bay; Fukuoka, Saga and Nagasaki prefectures, FUKUDA, 1996), EC5; southern China, Hong Kong.
- Habitat: supratidal, among stones and on gravel.
- Original genus: *Scarabus*.

□ Genus *Allochroa* ANCEY, 1887

Type species: *Auricula bronni* PHILIPPI, 1846-b (o. d.)  
(= *Laimodonta* H. & A. ADAMS, 1855-a non PHILIPPI,

1846-b)

(Refs. Martins, 1995)

G4993 *Allochroa layardi* (H. & A. ADAMS, 1855-a)

(= *Laimodonta pfeifferi* DUNKER in PFEIFFER, 1859; *L. conica* PEASE, 1862-b; *L. anaensis* MOUSSON, 1869; *L. conica* var. *conicoides* TAPPARONE CANEFRI, 1883; *L. bronni* var. *producta* DAUTZENBERG & FISCHER, 1905)

Kashi-no-me-gai

- Type locality: 'Ceylon' (Sri Lanka).
- Distribution: Chiba prefecture and southwards, P7-P5, Miyake island (Izu group), western Japan Sea (J1 to northern Fukuoka prefecture), EC5 and southwards, ECP4-ECP2, P2; China, Philippines, New Guinea, Australia, New Caledonia, Marshall islands, Tuamotu islands, Hawaii, India, Sri Lanka, Mauritius.
- Habitat: intertidal, among seagrass on gravel.
- Original genus: *Ophicardelus* (*Laimodonta*).

G4994 *Allochroa affinis* (FÉRUSAC, 1822 in 1819-32)

Sonare-gai

- Type locality: 'L'Île de France' (= Mauritius).
- Distribution: southern Kyūshū and southwards, Tanegashima & Yakushima, ECP4-ECP2; Indian Ocean.
- Habitat: intertidal, on gravel; nocturnal.
- Original genus: *Pedipes*.

Subfamily **CASSIDULINAE ODHNER, 1925**

□ Genus *Cassidula* FÉRUSAC, 1821 in 1819-32

Type species: *Bulimus aurisfelis* BRUGUIÈRE, 1792 in 1789-1816

(= *Cassidulus* BARTHOLD, 1827 non LAMARCK, 1801; *Rhodostoma* SWAINSON, 1840; *Sidula* GRAY, 1840)

G4995 *C. plecotrematoides plecotrematoides*

MÖLLENDORFF, 1901

Hige-maki-shii-no-mi-mimi-gai

- Type locality: 'ad vicus "Aberdeen" et "Shankiwan" dictos insulao Hongkong' ('From the districts of Hong Kong called Aberdeen and Shankiwan')
- Distribution: Amami islands and southwards, ECP3-ECP2 (FUKUDA, 1996), southern China, Hong Kong, Taiwan, Philippines, southeastern Asia.
- Habitat: intertidal in river mouth; among glavels of mangrove swamp.

G4996 *C. plecotrematoides japonica* MÖLLENDORFF, 1901

(= *C. labrella japonica* PILSBRY & HIRASE, 1905 non MÖLLENDORFF, 1901; *C. labrella sensu* IWAKAWA, 1919)

Shii-no-mi-mimi-gai

- Type locality: 'Hirado' (Nagasaki prefecture, western Kyūshū).

- Distribution: Fukushima prefecture and southwards, P6-P5, Seto inland sea, Japan Sea (northern Yamaguchi prefecture to western Kyūshū, J2-J1), EC5.
- Habitat: intertidal in river mouth; among rocks.

G4997 *C. paludosa nigrobrunnea* PILSBRY & HIRASE, 1905

Hime-shii-no-mi-mimi-gai

- Type locality: 'Kunchan, Ryukyu Ids.' (Kunigami, northern Okinawa island).
- Distribution: Okinawa, Miyako and Ishigaki islands (FUKUDA, 1996).
- Habitat: intertidal at river mouths, among gravel in mangrove swamps.

G4998 *C. mustelina* (DESHAYES, 1830)  
(= *C. vitiensis* MOUSSON, 1869)

Urashima-mimi-gai

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Taiwan, Philippines, New Caledonia, Indo-Pacific.
- Habitat: on trunks of mangroves in bays and lagoons.
- Original genus: *Auricula*.

G4999 *C. crassiuscula* MOUSSON, 1869

Kata-shii-no-mi-mimi-gai

- Type locality: 'Upolu' (Samoa).
- Distribution: Okinawa island and Ishigaki island (KUBO & KUROZUMI, 1995; FUKUDA, 1996); Philippines, Samoa, Fiji.
- Habitat: intertidal at river mouths, among gravel in mangrove swamps.

G5000 *C. nucleus* (GMELIN, 1791)  
(= *Auricula vespertilionis* LESSON, 1831)

Kōmori-mimi-gai

- Type locality: 'Otaéti' (Tahiti)
- Distribution: Ishigaki island (KUBO & KUROZUMI, 1995); Thailand, Philippines, New Caledonia, Indo-Pacific.
- Habitat: on trees of mangroves in bays and lagoons.
- Original genus: *Helix*.

Subfamily **PEDIPEDINAE FISCHER & CROSSE, 1880**  
(Refs.: Martins, 1992)

□ Genus *Pedipes* SCOPOLI, 1777

Type species: *Helix afer* GMELIN, 1791 (= *Pedipes pedipes* BRUGUIÈRE, 1789 in 1789-1816) (s. d. GRAY, 1847)

(= *Carassa* GISTL, 1848)  
(Refs.: Clench, 1964)

G5001 *P. jouani* MONTROUZIER in SOUVERBIE & MONTROUZIER, 1862 in 1859-79

(= *P. jouani* var. *philippinica* MÖLLENDORFF, 1893; *P. subglobosus* GARRETT, 1873)

Hizume-gai

- Type locality: 'Baie Boisée, Nov. Caledonia'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Hong Kong, Philippines, New Caledonia.
- Habitat: intertidal, among rocks and gravel; nocturnal.

□ Genus *Laemodonta* PHILIPPI, 1846-b

Type species: *Auricula striata* PHILIPPI, 1846-b non MARTENS, 1824, nec ANTON, 1839 (= *Pedipes octanflacta* JONAS, 1845) (mt.)

(= *Lirator* BECK, 1837 nom. nud.; *Plectotrema* H. & A. ADAMS, 1854; *Enterodonta* SYKES, 1894)  
(Refs. Hubendick, 1956)

G5002 *L. typica* (H. & A. ADAMS, 1854-a)

(= *Plectotrema concinna* H. & A. ADAMS, 1854-a)  
Heso-aki-ko-mimi-gai

- Type locality: 'Pulo Penang' (Penang, Malaysia).
- Distribution: southern Kyūshū (Nagasu village, Kumamoto prefecture), Amami islands and southwards, ECP4-ECP2, P2; southeast Asia, tropical Indo-Pacific.
- Habitat: under stones at high tide line.
- Original genus: *Plectotrema*.

G5003 *L. monilifera* (H. & A. ADAMS, 1854-a)

(= *Plectotrema rapax* DOHRN, 1860; *P. mordax* DOHRN, 1860; *P. hirsuta* GARRETT, 1873; *P. consobrina* GARRETT, 1873)

Maki-suji-ko-mimi-gai

- Type locality: none designated ('Probably Borneo' HUBENDICK, 1956).
- Distribution: Bōsō peninsula (central Honshū) and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2, P2 (KAWABE, 1992), Ogasawara islands; southeast Asia, tropical Indo-Pacific.
- Habitat: under stones at high tide line.

G5004 *L. siamensis* (MORELET, 1875)

(= *L. exarata* H. & A. ADAMS sensu KURODA, 1963)  
Kuri-iro-ko-mimi-gai

- Type locality: 'Siam' (Thailand).
- Distribution: Mie prefecture (Mikawa bay) and southwards, Seto inland sea, western Japan Sea (J1), EC5, ECP4-ECP2, P2 (KAWABE, 1992); southern Korea, Taiwan, Thailand, Philippines.
- Habitat: tidal flats in bays and inland seas; among roots of reeds.
- Original genus: *Plectotrema*.

G5005 *L. bella* (H. & A. ADAMS, 1855-a)

(= *Plectotrema souverbiei* MONTROUZIER, 1862; *P. exiguum* H. ADAMS, 1867-c; *P. turrita* GARRETT, 1873)  
Kado-bari-ko-mimi-gai

- Type locality: 'Philippines'.
- Distribution: Amami Ōshima (Tsuchihama TAKADA &

HABE, 1991), ECP3; tropical Indo-Pacific.

- Habitat: under rocks at high tide line.
- Original genus: *Plectotrema*.

G5006 *L. exaratooides* KAWABE, 1992

Usu-ko-mimi-gai

- Type locality: none designated.
- Distribution: Iwate prefecture and southwards, P9-P5, Seto inland sea, Japan sea (northern Yamaguchi prefecture, J1), western Kyūshū, EC5, ECP3-ECP2; south Korea (KAWABE, 1992; FUKUDA, 1996).
- Habitat: intertidal in bays and inland seas; among rocks.

G5007 *L. octanfracta* (JONAS, 1845)

(= *Auricula striata* PHILIPPI, 1846-b; *Plectotrema clausa* H. & A. ADAMS, 1854-a; *P. exarata* H. & A. ADAMS, 1854-a; *P. labrellum* H. & A. ADAMS, 1854-a; *P. bicolor* PFEIFFER, 1856; *P. binneyi* CROSSE, 1867; *P. ciliatum* TATE, 1879)

Isasa-ko-mimi-gai

- Type locality: '*ad Insulas Sandwicensis?*' (Hawaii?).
- Distribution: Miyako island (Hisamatsu), Okinawa prefecture (FUKUDA, 1996), P2; Taiwan, Philippines, tropical Indo-Pacific.
- Habitat: under rocks at high tide line.
- Original genus: *Pedipes*.

□ Genus *Microtralia* DALL, 1894-d

Type species: *Tralia (Alexia?) minuscula* DALL, 1889 (= *Leuconia occidentalis* PFEIFFER, 1854) (mt.) (= *Rangitotoa* POWELL, 1933)

G5008 *Microtralia acteocinoides* KURODA & HABE in HABE, 1961-c

Nagisa-no-shitatarī (= Kome-tsubu-nagisa-no-tsuyu; Mijin-nagisa-no-shitatarī)

- Type locality: Magarizaki (cape), Tomioka, Amakusa (island), western Kyūshū.
- Distribution: Hokkaidō (Hakodate IGARASHI *et al.*, 1990) and southwards, P9-P5, Seto inland sea, Japan Sea (northern Yamaguchi prefecture and southwards; J2-J1), EC5, ECP4-ECP2, P2; Korea (Pusan).
- Habitat: under rocks at high tide line.

Subfamily MELAMPINAE STIMPSON, 1851

(= MELAMPODINAE *auct.*)

□ Genus *Melampus* MONTFORT, 1810 in 1808-10

Type species: *Bulla coffea* LINNAEUS, 1758 (mt.)

(= *Conovulus* LAMARCK, 1816; *Melampa* SCHWEIGGER, 1820; *Conovulum* SOWERBY II, 1842)

Subgenus *Melampus s. str.*

G5009 *M. (M.) parvulus* PFEIFFER, 1846-c

Chibi-hama-shii-no-mi

- Type locality: Hawaii.

- Distribution: Amami islands and southwards (FUKUDA, 1996), ECP3-ECP2, P2; Hawaii to Australia, New Caledonia, Samoa, Wallis island, Indo-Pacific.
- Habitat: intertidal, among gravel in mangrove swamps..

G5010 *M. (M.) sincaporensis* PFEIFFER, 1855

Kinu-katsugi-hama-shii-no-mi

- Type locality: 'Singapore' (Singapore).
- Distribution: Miura peninsula (central Honshū) and southwards, P7-P5, Seto inland sea, Japan Sea (northern Yamaguchi prefecture, J2-J1), western Kyūshū, EC5, Iriomote island, P2 (FUKUDA, 1996); southeast Asia.
- Habitat: intertidal in mouth of river; between roots of reeds.

G5011 *M. (M.) phaeostylus* KOBELT, 1901

Toriko-hama-shii-no-mi

- Type locality: Macao.
- Distribution: Ryūkyū islands and southwards (FUKUDA, 1996), ECP2; Indo-Pacific.
- Habitat: intertidal in mangrove swamps, among gravels.

G5012 *M. (M.) nuxcastaneus* KURODA, 1949

(= *M. caffer* (KÜSTER) *sensu* IWAKAWA, 1919; KURODA, 1928, 1941, 1947; S. HIRASE, 1934; KURODA & HABE, 1952-a; KIRA, 1959; *M. castaneus (sic) sensu* MORRISON, 1969; FUKUDA *et al.*, 1990 *non* MÜHLFELD, 1818; *M. nuxshii* KURODA, 1957, 1963 *nom. nud.*)

Hama-shii-no-mi

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J2-J1), EC5, ECP4-ECP2, P2, Ogasawara islands.
- Habitat: intertidal, on rocks and gravel.

**Note:** this name first appeared in the second (1949) reprinting of KURODA (1947), incorrectly spelt *nuxcastanea*, as an amendment for *M. caffer*; it remained unchanged for several subsequent editions until Kuroda attempted to formally amend it to *nuxshii* (1957: Venus, vol. 19 (3-4): 275), a name with the same meaning in Japanese. In the latter article, he cited *nuxcastaneus* as the original name.

Subgenus *Pira* H. & A. ADAMS, 1855 in 1853-58

Type species: *Tralia (Pira) kusteri* KÜSTER, 1844 (s. d. MORRISON, 1964)

G5013 *M. (P.) flavus* (GMELIN, 1791)

(= *Auricula monile* QUOY & GAIMARD, 1832 *non* LAMARCK, 1822 in 1815-22; *Auricula luteus* QUOY & GAIMARD, 1832 in 1832-35; *M. fortis* MOUSSON, 1869) Tsuya-hama-shii-no-mi

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-

ECP2, P2, Ogasawara islands; Taiwan, Philippines, Indo-Pacific.

- Habitat: supratidal, among rocks and gravel.
- Original genus: *Voluta*.

G5014 *M. (P.) fasciatus* (DESHAYES, 1830)

(= *M. zonatus* MÜHLFELD, 1839; *M. flavus forma fasciatus sensu* CERNOHORSKY, 1972; *Pira adamsiana sensu* MORRISON, 1969 non PFEIFFER, 1854-a)

Suji-hama-shii-no-mi

- Type locality: none designated.
- Distribution: southern Kyūshū and southwards, ECP4-ECP2, P2, Ogasawara islands; Philippines, tropical Indo-Pacific.
- Habitat: supratidal, among rocks and gravel.

G5015 *M. (P.) taeniolus* HOMBRON & JACQUINOT, 1854

(= *M. adamsiana* PFEIFFER, 1854-a; *M. taeniolatus* KOBELT, 1901 err.)

Hoso-hama-shii-no-mi

- Type locality: 'Mangareva' (Gambier islands, French Polynesia).
- Distribution: Tanegashima and southwards, ECP4-ECP2, P2.
- Habitat: intertidal in mangrove swamps, among gravels.

G5016 *M. (P.) sculptus* PFEIFFER, 1850

(= *M. (Tralia) semiplicatus* PEASE, 1860-c)

Niwatazumi-hama-shii-no-mi

- Type locality: 'Admiralty Islands'.
- Distribution: Ryūkyū islands and southwards, ECP3-ECP2, P2 (FUKUDA, 1996); Hawaii (KAY, 1979); New Caledonia (FRANC, 1956).
- Habitat: intertidal in mangrove swamps, among gravels.

Subgenus *Micromelampus* MÖLLENDORFF, 1898

Type species: *Melampus nucleolus* MARTENS, 1865-b (o. d.)

G5017 *M. (Micromelampus) nucleolus* MARTENS, 1865-b

Urushi-nuri-hama-shii-no-mi

- Type locality: 'Amboina' (Ambon island, Indonesia).
- Distribution: Ryūkyū islands and southwards, ECP3-ECP2 (FUKUDA, 1995); Thailand, Indonesia.
- Habitat: intertidal, among gravel in mangrove swamps.

G5018 *M. (Micromelampus) cristatus* PFEIFFER, 1854-a

Atsu-kuchi-hama-shii-no-mi

- Type locality: 'Philippine Islands'.
- Distribution: Ryūkyū islands and southwards, ECP2, P2.
- Habitat: supratidal, among rocks.

Subgenus *Signia* H. & A. ADAMS, 1855 in 1853-58

Type species: *Auricula granifera* MOUSSON, 1849 (mt.)

G5019 *M. (S.) graniferus* (MOUSSON, 1849)

Nunome-hama-shii-no-mi

- Type locality: 'Java' (Indonesia).
- Distribution: southern Kyūshū (Kagoshima City), Amami islands and southwards, ECP4-ECP2, P2; Taiwan, Philippines, Indonesia, Indo-Pacific.
- Habitat: intertidal, among gravel in mangrove swamps.
- Original genus: *Auricula*.

G5020 *M. (S.) sulculosus* MARTENS, 1865-b

Kinume-hama-shii-no-mi

- Type locality: 'Amboina: an der Mündung des Weynituflusses' (mouth of the Weynitu river, Ambon island, Indonesia).
- Distribution: Ryūkyū islands (KURODA, 1960; FUKUDA, 1996), ECP3-ECP2; Indonesia.
- Habitat: intertidal in mangrove swamps, among gravels.

Suborder TRIMUSCULIFORMES MINICHEV & STAROBOGATOV, 1975

Superfamily TRIMUSCULOIDEA BURCH, 1945

Family TRIMUSCULIDAE BURCH, 1945

□ Genus *Trimusculus* SCHMIDT, 1818

Type species: *Patella mamillaris* LINNAEUS, 1758

(= *Gadinia* GRAY, 1824; *Clypeus* SCACCHI, 1833; *Mouretia* SOWERBY, 1842; *Muretia* D'ORBIGNY, 1843; *Gardinia* PICTET, 1855; *Rowellia* CARPENTER, 1864; *Gadinalea* IREDALE, 1940)

G5021 *T. kurodai* HABE, 1958-i

(= *Gaidinia* cf. *afra* sensu KURODA, 1941; *Trimusculus* sp. sensu KURODA & HABE, 1952-a)

Yuki-karamatsu

- Type locality: Ryūkyū-shō (bank), off Takao (Kaohsiung), Taiwan.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2.
- Habitat: intertidal, on rocks.

G5022 *T. yamamotoi* HABE, 1958-i

Cha-iro-karamatsu

- Type locality: Rinkaihama (beach), Shirahama, Kii peninsula (central Honshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2.
- Habitat: intertidal on rocks.

• Details of literature directly cited in the text are included here, as well some works referred to during the compilation of this book. Collations of larger Japanese works have been added to provide a useful reference source for non-Japanese workers; in return, details of some of the major Western serial works are given for the benefit of Japanese workers who may not have ready access to large libraries.

Where a publication is not valid for nomenclatural purposes according to ICZN rules, this is noted. All works cited are principally in English unless otherwise stated.

• **Notes**

**George Brettingham Sowerby:** the works of the three authors of this name are cited with as Sowerby I, II or III. It is usually possible to determine which of the three was the author, but in the case of a few papers this remains uncertain.

**Dates of publication:** it was common in the early years some journals for individual numbers to appear some time after the date printed on the cover - often in the following year. Where the published date has been confirmed as differing from the date of actual appearance, the former is indicated in brackets.

**Authorship of Japanese works:** in a number of important Japanese works, one or more of the contributors is cited as *Kanshū*, a title which translates as 'supervising editor'. In citations of these works by Japanese authors, however, this person is frequently not cited as editor (for which the exact Japanese is *Henshū*). There is no citable equivalent of *Kanshū* in conventional bibliographical notation, and the division of responsibility for the production of certain works is thus not clear.

• **The following Japanese journals are cited:**

**BULLETIN OF THE INSTITUTE OF MALACOLOGY, TOKYO** (ISSN 0288-1527): 1979 to present day. Occasional publication, in English. Special publications include '*Latiaxis* and its related groups' (Kosuge & Suzuki, 1985) and 'North Pacific Shells' (Chiba & Kosuge, 1980-92).

I. M. T.: Tōkyō-to, Tanashi-shi, Midori-chō 3-chōme 6-36, 188-0002 Japan.

**THE CHIRIBOTAN:** Newsletter of the Malacological Society of Japan (ISSN 0577-9316). 1960 to present day. For address see 'Venus'.

**CONCHOLOGIA ASIATICA:** 1943. Ed. Isao Taki, Yanosuke Ōtsuka, Kōichi Suzuki. Intended as a periodical, only 4 parts appeared and these were issued only as a single volume. Pub. Wabiya Shōin, Tōkyō.

**CONCHOLOGICAL MAGAZINE, THE** (Kai-ruì Zasshi): 1907-14. Published by Y. Hirase, Kyōto. Articles on general conchology with descriptions of new species. Vol. 1 (1907): 12 issues. Vol. 2 (1908): 12 issues. Vol. 3 (1909): 4 issues. Vol. 4 (1914): ?1 issue. In Japanese; English summaries were included from vol. 2. See **KANAMARU, T.** (1956): *Venus*, vol. 19 (1): 65-72.

**HAGURE-GARASU:** Proceedings of the Malacozoological Meeting 'Hagure-Garasu' of Tōkyō. 1987 to 1992, nos. 1-50. Published by S. Kosuge, Tōkyō. Photocopied journal in Japanese; articles and book reviews etc., covering general malacology. Replaced by *Mokuhachi News*, *q. v.*

**HITACHIJOBI:** The Reports of the Tōkyō Malacological Society (ISSN 0912-1900). 1974 to present day, quarterly, in Japanese.

Tōkyō-to, Nakano-ku, Shōwa-chō 4 - 40 - 9, 164-0000, Japan

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Hanshin Shell Club, c/o Kikuchi Shell Museum: Hyōgo-ken, Nishinomiya-shi, Ōhama-chō 1-41, 662-0957 Japan.

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Nagoya Shell Club: Aichi-ken, Komaki-shi, Kita-soto-yama 3385, 485-0023 Japan.

**KYŪSHŪ NO KAI:** Journal of the Malacological Society of Kyūshū (ISSN 0911-985X). 1973 to present day. Articles in Japanese.

Malacological Society of Kyūshū: Ōita-ken, Ōita-shi, Haneda-higashi 8-4, 870-0942 Japan.

**MITAMAKI:** Sagami Shell Club Report (ISSN 0912-1390). 1967 to present day. Articles on general conchology, in Japanese.

Sagami Shell Club: c/o Yokosuka City Museum of Natural History, Kanagawa-ken, Yokosuka-shi, Fukada-dai 95, 238-0016 Japan.

**MOKUHACHI NEWS:** Occasional journal of the Mokuhachi-kai Shell Club (ISSN 0919-763X). In Japanese. Mokuhachi-Kai Shell Club: Chiba-ken, Chōshi-shi, Moritomachi 702, 288-0872 Japan.

**NANKI SEIBUTSU:** Journal of the Nanki Biological Society (ISSN 0389-7842). 1949 to present day. Articles on all aspects of natural history, with particular emphasis on Wakayama prefecture.

Nanki Biological Society: Wakayama-ken, Gobō-shi, Yukawa-chō, Takara 522-2, 644-0011 Japan.

**PACIFIC SHELL NEWS:** 1970-72. Occasional publication of the Pacific Shell Club, Tōkyō (compiled by S. Kosuge & M. Suzuki). 6 issues. Contains new taxa.

• For details of pagination, taxa etc. see **EMERSON, W. K. & SAGE, W. E.** (1987).

**SHIGEN-KAGAKU KENKYUSHO IHŌ:** 1943 to 1969. Journal issued by Shigen-kagaku Kenkyūsho (now Agency of Natural Resources and Energy), Ministry of International Trade and Industry (Tsūshō Sangyō Shō; formerly Shōkōshō), Tōkyō.

**THE VENUS:** The Japanese Journal of Malacology (ISSN 0042-3580). 1928 to present day, quarterly in Japanese and English. Occasional publications include 'Taxonomy and Distribution of Mollusks' (1989). An index to vols. 1-24 was published privately by K. Ōyama (1979).

c/o National Science Museum (Natural History Institute), Tōkyō-to, Shinjuku-ku, Hyakunin-chō 3 - 23 - 1, 169-0073 Japan.

**YUME-HAMAGURI** (1941-58): Mimeographed general malacological magazine published by Tetsuaki Kira and distributed by mail. Special publications include 'Kai-rui wamei-i' (Index of Japanese Molluscan Names. 1954-55. Special publication in memory of Mr. Nobutoshi Katō).

• Although many new taxa were proposed by Japanese authors in Yume-hamaguri, it was hand-written on stencils and mimeographed - not typeset - and therefore is not a taxonomically valid publication. See ICZN (3rd. ed.) art. 9 (b).

**THE YURIYAGAI:** Journal of the Malacozoological Association of Yamaguchi (ISSN 1342-2170). 1990-present day. Originally in Japanese; in English and Japanese from vol. 4 (1996).

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E-mail: assimine@comp.metro-u.ac.jp

**THE ZOOLOGICAL MAGAZINE** (Dōbutsu-gaku Zasshi): Pub. Zoological Society of Japan. 1888 to present day.

#### • Regional faunal lists

The distribution ranges cited in the present work have been in part compiled from regional faunal lists and reports. To assist readers in more detailed study, the principal sources for various areas within Japan are listed here:

##### **Hokkaidō**

HATTA & SASAKI, 1910; SASAKI, 1933; KINOSHITA, 1934; 1937; KINOSHITA & ISAHAYA, 1934; ISHIKAWA, 1966; (Oshoro bay): ICHIKAWA & YAMADA, 1957; HORI & IIZUMI, 1997; (Akkeshi bay): HABE, 1955-a; 1958-j; KURODA & KINOSHITA, 1951; ISHIKAWA, 1969; (Otaru): ITŌ, 1961; (Okhotsk Sea coast): ITŌ, 1963; (Kushiro): YOKOHIRA & ITŌ, 1967; (Nemuro): YOKOHIRA, 1967; (Hakodate) ISHIKAWA, 1953

##### **Honshū (Pacific side)**

Aomori prefecture (Mutsu bay): TAKATSUKI, 1927; NOMURA & HATAI, 1932-a; HABE & YAMAMOTO, 1958; YAMAMOTO & HABE, 1958; 1959  
Miyagi prefecture (Matsushima bay): NOMURA & HATAI, 1932-b  
Iwate prefecture: NOMURA & HATAI, 1935-a; HABE & KOSUGE, 1968; (Ōtsuchi bay): TSUCHIDA, 1990; 1991; 1992; 1995-a; HORIKOSHI et al., 1980  
Fukushima prefecture: NEMOTO & AKIMOTO, 1990  
Chiba prefecture (Tateyama bay): FUJITA, 1929; (Chōshi): WATANABE & NARUKE, 1988; (Bōsō peninsula): HORIKOSHI, 1990; (Ōnohama bay) NOMURA & KAKUDA, 1933  
Kanagawa prefecture (Sagami bay): KURODA et al., 1971; OKUTANI, 1962; 1964-a; 1964-b  
Shizuoka prefecture (Suruga bay): ŌYAMA, 1943; ŌTA, 1983; HABE et al., 1986  
Aichi prefecture: NAKAJIMA, 1996  
Mie prefecture: MATSUMOTO, 1979  
Seto inland sea: INABA, 1982; (Mukaishima): KOMATSU, 1986; 1987; 1988  
Ōsaka prefecture (Ōsaka bay): KOJIMA et al., 1995  
Hyōgo prefecture: YAGURA, 1916  
Hiroshima prefecture: Iw. TAKI, 1938; (Hiroshima City): INABA, 1943; (Onomichi) Iw. Taki, 1936-b  
Wakayama prefecture (Kii peninsula): KURODA, 1929-a; KURODA & HABE, 1981

##### **Shikoku**

Kōchi prefecture: AZUMA, 1960

##### **Kyūshū**

Ariake Inland Sea: HABE & TANAKA, 1959  
Fukuoka prefecture: TAKAHASHI & OKAMOTO, 1948; 1969; OKAMOTO, 1952; 1977

Nagasaki prefecture: HORIKAWA, 1964; MATSUMURA, 1994; (Danjo islands): KATŌ et al., 1968; YAMAMOTO et al., 1973; (Iki island): MATSUBAYASHI et al., 1977; (Gotō, Iki and Tsushima islands): MATSUMURA & YAMAMOTO, 1981  
Kumamoto prefecture (Amakusa island): HABE & KIKUCHI, 1960  
Miyazaki prefecture: KURODA, 1935-b  
Kagoshima prefecture (Uji islands): HIRATA, 1954; (Tanegashima island): HOSOYAMADA, 1932; (Amami islands): KURODA, 1928-c; HIGO (Ed.), 1974

### **Japan Sea**

Akita prefecture (Oga peninsula): NISHIMURA & WATABE, 1943; (Kyūrokushima island): NOMURA & HATAI, 1940  
Yamagata prefecture: NOMURA & JINBO, 1936; SUZUKI, 1979  
Hyōgo prefecture (Tajima): ITŌ, 1967  
Kyōto & Fukui prefectures (Wakasa bay): ITŌ, 1990  
Fukui prefecture: KURODA, 1933-b; 1933-c; NOMURA & NIINO, 1940; FURUKAWA & KUBOTA, 1947  
Sado and Awashima islands: ITŌ, 1978; 1979; 1985; 1989  
Ishikawa prefecture: ITŌ et al., 1986; (Noto peninsula, Noto district): ITŌ, 1980; (Noto peninsula, Tsukumo bay): HABE, 1973; (Noto peninsula, Shiga district): ŌHASHI, 1974  
Toyama prefecture: NUNOMURA, 1988 (Toyama bay): KIKUCHI, 1931; 1936  
Niigata prefecture: ITŌ, 1989  
Yamaguchi prefecture: KAWAMOTO & TANABE, 1956; IKEDA & TADA, 1963; FUKUDA *et al.*, 1992

### **Izu islands**

(offshore banks): OKUTANI, 1972-a

### **Ogasawara islands**

Ogasawara islands: NISHIMURA, 1987; 1988; 1989; FUKUDA, 1993; 1994; 1995

### **Okinawa prefecture**

Okinawa: SUGITANI, 1926; KURODA, 1960; MACNEIL, 1960; SHIRAI, 1977; HABE, 1980-b; 1981-a; KUBO & KUROZUMI, 1995; (Senkaku islands): YAMAMOTO, 1971; FUJIOKA & KUROZUMI, 1980

### **• Abbreviations used in the Bibliography**

<b>app.</b>	appendix
<b>Ed., Eds.</b>	Editor(s)
<b><i>ibid</i></b>	in the same work
<b>Pub.</b>	published by
<b><i>q. v.</i></b>	see (for further information)
<b><i>trans. auct.</i></b>	translated by present authors

- AARTSEN, J. J. van, BOGI, C. & GIUSTI, F.** (1989): 'Remarks on Genus *Benthonella* (Rissoidae) in Europe and the description of *Laeviphitus* (nov. gen.) *verduini* (nov. spec.) (Epitoniidae)'. *La Conchiglia*, vol. 21 (246-249): 19-22, figs. 1-4.
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- ABBOTT, R. T.** (1960): 'The genus *Strombus* in the Indo-Pacific'. *Indo-Pacific Mollusca*, vol. 1 (2): 33-146, pls. 11-117. Pub. Dept. of Mollusks, Academy of Natural Sciences, Philadelphia, USA.
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- ABLAN, G. & ALCASID, G.** (1938): 'Two species of *Pinna* apparently new to the Philippines.' *Philippine Journal of Science*, vol. 66 (4): 497-499, pl.1.
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- ADAMS, A.** (1850-b): 'Description of new species of the genus *Cumingia* with some additional generic characters.' *Proceedings of the Zoological Society of London*, 24-25.
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- ADAMS, A.** (1850-g): 'Descriptions of new species of shells from the Cumingian collection.' *Proceedings of the Zoological Society of London*, (17): 169-170, pl. 6.
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- ADAMS, A.** (1851-d): 'A Monograph of *Macroschisma*, a genus of Gasteropodous Mollusca belonging to the family Fissurellidae.' *Proceedings of the Zoological Society of London*, part 18 (1850): 202-203.
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    5. *Machaeroplax koreanica* (2 figs.)
    6. *Machaeroplax delicata* (2 figs.)
    7. *Liotina* (*Liotinaria*) *solidula* (3 figs.)
    8. *Cocculina japonica* (2 figs.)
    9. *Dentalium* (*Graptacme*) *luchuanum* (2 figs.)
    10. *Dentalium* (*Laevidentalium*) *crocinum* (2 figs.)
    11. *Dentalium* (*Rhabdus*) *nagoense* (1 fig.)
    12. *Callotropis* (*sic*) (*Solaricida*) *hondoensis* (3 figs.)
  - Dated September 1, 1955:
    13. *Phasianella modesta* (3 figs.)
    14. *Balcis curvata* (1 fig.)
    15. *Balcis nivea* (1 fig.)
    16. *Thatcheria mirabilis* (2 sides, 4 figs.)
    17. *Pusia porphyretica* (1 fig.)
    18. *Cryptobranchia lima* (3 figs.)
    19. *Perotrochus hirasei* (2 sides, 2 figs.)
    20. *Cecina manchurica* (1 fig.)
    21. *Alcyna ocellata* (2 figs.)
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Class BIVALVIA LINNAEUS, 1758

( = PELECYPODA GOLDFUSS, 1820)

(Refs.: Iwakawa, 1914-16; Kuroda, 1929-35; Kuroda & Habe, 1952-a; Kira, 1954; 1959; 1962; Habe, 1961-a; 1964-c; Habe & Ito, 1965-a; Habe & Kosuge, 1966-a; 1967; Shikama, 1964; Shikama & Horikoshi, 1963; Vokes, 1967; 1980; Cernohorsky, 1967; 1972; 1978; Moore (Ed.), 1969; Kuroda, Habe & Ōyama, 1971; Abbott, 1974; Kay, 1979; Kuroda & Habe, 1981; Habe, 1953-a; 1977-a; Springsteen & Leobrera, 1986; Bernard, 1983; Bernard *et al.*, 1993; Okutani *et al.*, 1989)

Subclass **PROTOBRANCHIA PELSENEER, 1889**

Order **NUCULOIDA DALL, 1889**

Superfamily **NUCULOIDEA GRAY, 1824**

Family **NUCULIDAE GRAY, 1824**

□ Genus *Nucula* **LAMARCK, 1799**

Type species: *Arca nucleus* LINNAEUS, 1758 (mt.)

B1 *N. paulula* **A. ADAMS, 1856-a**

Mame-kurumi-gai

- Type locality: Japan.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (central Niigata prefecture, J3-J1), EC5, East China Sea.
- Habitat: intertidal to 150 m., sandy mud.

B2 *N. cumingii* **HINDS, 1843-f**

( = *Nucula loringi* ADAMS & ANGAS, 1864-a)

- Type locality: 'Seas of the Indian Archipelago...New Guinea; Straits of Macassar; Bolinao, San Nicolas, Sual and Bassey in the Philippines; Singapore and Straits of Malacca'.
- Distribution: East China Sea; South China Sea, Beibu Gulf, Philippines, Australia (BERNARD *et al.*, 1993).

□ Genus *Lamellinucula* **SCHENCK & REINHART, 1944**

Type species: *Nucula tamatavica* ODHNER, 1943 (o. d.)

B3 *L. tokyoensis* (**YOKOYAMA, 1920**)

Yosenami-kurumi-gai

- Type locality: Naganuma, Totsuka-ku, Yokohama City (fossil).
- Distribution: Izu islands (off Izu-Ōshima OKUTANI, 1966; off Miyake island OKUTANI, 1968), Bōsō peninsula (TSUCHIDA & KUROZUMI, 1995-b), and southwards, Kii peninsula (TSUCHIDA, 1985-b), P7-P5, Japan Sea (off Tsushima, J1), EC5, East China Sea.
- Habitat: 50-1205 m., sandy mud.
- Original genus: *Nucula*.

B4 *L. gemmulata* (**HABE, 1953**)

Mame-shijimi-nari-kurumi-gai

- Type locality: Tosa bay off Kōchi prefecture, southern Shikoku.

- Distribution: Sagami bay (OKUTANI, 1962) and southwards, P6-P5, EC5, East China Sea.
- Habitat: 50-200 m., sand.
- Original genus: *Nucula* (*Lamellinucula*).

**B5 *L. izushotoensis* OKUTANI, 1966**

Kadobari-yosenami-kurumi-gai

- Type locality: 'Sōyō-Marū' sta. B4, off Bayonnaise Rock, Izu islands: 32° 00.9' N., 140° 44.0' E., 2020 m.
- Distribution: Tosa bay (TSUCHIDA, 1994-b), Izu islands (off Bayonnaise rock, 1940-1980 m. OKUTANI, 1968; type locality), East China Sea.
- Habitat: 1900-3000 m., fine sand.

**B6 *L. dorsocrenata* HABE, 1977-b**

Sekizami-kurumi-gai

- Type locality: off Amami Ōshima, ± 100 m.
- Distribution: recorded only from type locality.

□ Genus *Acila* H. & A. ADAMS, 1858 in 1853-58

Type species: *Nucula divaricata* HINDS, 1843

Subgenus *Acila s. str.*

(Refs.: Schenck, 1935; 1936)

**B7 *A. (A.) divaricata divaricata* (HINDS, 1843-f)**

(= *Nucula mirabilis* ADAMS & REEVE, 1850 in 1848-50)

Tsukushi-kirara-gai

- Type locality: 'China Sea; from eighty-four fathoms'.
- Distribution: off Fukushima prefecture, P8-P5, Japan Sea (Sado island, J3-J1), EC5, East China Sea; Korea, Yellow Sea.
- Habitat: 50-350 m., sandy mud.
- Original genus: *Nucula*.

**B8 *A. (A.) divaricata balabacensis* SCHENCK, 1936**

(= *A. divaricata submirabilis* SCHENCK, 1936 non MAKIYAMA, 1926; *A. schencki* KURODA, MS *sensu* KIRA, 1959)

- Type locality: Balabac, Philippines.
- Distribution: Enshū-nada (off Aichi prefecture) and southwards, P6-P5, EC5, ECP4-ECP2, P2, East China Sea; South China Sea, Philippines.
- Habitat: 50-350 m., sandy mud.

**B9 *A. (A.) divaricata vigila* SCHENCK, 1936**

Karafuto-kirara-gai

- Type locality: east off Urukawa lighthouse, Hokkaidō: 42° 24.0' N., 142° 36.0' E., 175 fms., mud.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and northwards, P8-P10, OP, Kuril islands; Sakhalin.
- Habitat: 160-500 m., sandy mud.

**B10 *A. (A.) archibenthalis* OKUTANI, 1964-a**

Fukami-kirara-gai

Type locality: Sagami bay, central Honshū: 35° 04.8' N.,

139° 30.2' E., 620-780 m.

- Distribution: Sagami bay (685 m. OKUTANI, 1968; type locality).
- Habitat: 50-800 m., fine sand and mud.

**B11 *A. (A.) japonica* DALL, 1898-a**

Type locality: 'northern Japan'.

- Distribution: unknown.
- Original genus: *Nucula* (*Acila*).

Subgenus *Truncacila* GRANT & GALE, 1931

Type species: *Nucula castrensis* HINDS, 1843 (o. d.)

**B12 *A. (T.) insignis* (GOULD, 1861 in 1859-61)**

Kirara-gai

- Type locality: 'dredged off east coast of Japan, lat. 37° and at Hakodadi' (Hakodate, Hokkaidō).
- Distribution: Bōsō peninsula and northwards, P8-P10, Japan Sea (J1-J5), western Kyūshū (Gotō islands); Korea, Primoriye region (Japan Sea coast of Russia).
- Habitat: intertidal to 200 m., fine sand and mud.
- Original genus: *Nucula* (*Acila*).

**B13 *A. (T.) minutoides* KURODA & HABE in HABE, 1958-a**

Tsubomi-kirara-gai

- Type locality: 'Sōyō-Marū' sta. 259, Suruga bay, central Honshū; 118 m.
- Distribution: Bōsō peninsula and southwards, P7-P5 (Kashima-nada OKUTANI, 1962; Sagami bay OKUTANI, 1968), EC5; Yellow Sea.
- Habitat: 50-990 m., fine sand and mud.

□ Genus *Ennucula* IREDALE, 1931

Type species: *Nucula obliqua* LAMARCK, 1819 (o. d.)

(= *Eunucula auct.*)

**B14 *E. niponica* (E. A. SMITH, 1885)**

Kurumi-gai

- Type locality: 'Challenger' sta. 232, 'south of the Island of Nipon, Japan' (Honshū): 35° 11' N., 139° 28' E., 345 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5 (Sagami bay OKUTANI, 1966; 1968), Kii peninsula (TSUCHIDA, 1985-b), Tosa bay, Japan Sea (northern Niigata prefecture, J3-J1), EC5, East China Sea; Yellow Sea, Hong Kong.
- Habitat: 40-1460 m., sandy mud.
- Original genus: *Nucula*.

**B15 *E. tenuis* (MONTAGU, 1808 in 1803-8)**

(= *Nucula bellotti* A. ADAMS, 1856-a; *N. inflata* HANCOCK, 1846 non SOWERBY, 1823; *N. tumidula* MALM, 1860; *N. lucida* WHITEAVES, 1887)

Ko-gurumi-gai

- Type locality: 'on the shore near Dunbar' (Scotland).
- Distribution: northeastern Honshū (Iwate prefecture) and

northwards, P9-P10, OP, Kuril islands, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J5); Yellow Sea, Bering Sea, Arctic Ocean, northern USA, northern Atlantic Ocean.

- Habitat: subtidal to 2200 m., sandy mud.
- Original genus: *Arca*.

**B16 *E. cyrenoides* (KURODA, 1929 in 1929-35)**

Shijimi-nari-kurumi-gai

- Type locality: off eastern Honshū.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5 (off Kushikino, Kyūshū OKUTANI, 1962), East China Sea; Yellow Sea.
- Habitat: 50-2320 m., fine sand.
- Original genus: *Nucula*.

**B17 *E. teramachii* HABE, 1958-a**

Teramachi-kurumi-gai

- Type locality: Tosa bay, southern Shikoku.
- Distribution: Enshū-nada (off Shizuoka prefecture) and westwards, Kii peninsula, Tosa bay (southern Shikoku).
- Habitat: 50-200 m., fine sandy mud.

**B18 *E. mirifica* (DALL, 1907)**

Ō-kurumi-gai

- Type locality: 'Albatross' sta.5040, 'south coast of Yesso (Hokkaidō), Japan'.
- Distribution: Sagami bay (OKUTANI, 1962) and northwards, P6-P10, OP, Okhotsk Sea.
- Habitat: 50-600 m., fine sand.
- Original genus: *Nucula*.

□ Genus *Pronucula* HEDLEY, 1902

Type species: *Pronucula decorosa* HEDLEY, 1902 (o. d.)

**B19 *P. insignis* HAYAMI & KASE, 1993**

Keshi-kurumi-gai

- Type locality: bottom sediments of 'Lunch Hole', Irabu island, Miyako group (Okinawa prefecture).
- Distribution: Shimoji, Irabu and Ie islands (Okinawa group).
- Habitat: subtidal in caves.

Family **PRISTIGLOMIDAE ALLEN & SANDERS, 1973**

□ Genus *Pristigloma* DALL, 1900-c

Type species: *Glomus nitens* JEFFREYS, 1876 (mt.) (= *Glomus* JEFFREYS, 1876 non GISTL, 1848)

**B20 *P. japonica* (E. A. SMITH, 1885-a)**

Tome-sode-gai

- Type locality: 'Challenger' sta. 237: 'off the south-east of Nipon, Japan': 34° 07' N., 138° 00' E., 1875 fms. (Enshū-Nada, off Aichi prefecture, central Honshū).
- Distribution: recorded only from type locality.

- Original genus: *Glomus*.

Superfamily **NUCULANOIDEA H. & A. ADAMS, 1858 in 1853-58**

Family **SAREPTIDAE STOLICZKA, 1871**

(= YOLDIIDAE HABE, 1977-a)

□ Genus *Sarepta* A. ADAMS, 1860-b

Type species: *Sarepta speciosa* A. ADAMS, 1860-b (o. d.)

**B21 *S. speciosa* A. ADAMS, 1860-b**

Hira-sode-gai

- Type locality: 16 miles off Mishima, Japan Sea; 63 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Niigata prefecture, J3-J1), East China Sea; South China Sea.
- Habitat: 50-350 m., sandy mud.

**B22 *S. abyssicola* E. A. SMITH, 1885-a**

Kita-hira-sode-gai

- Type locality: 'Challenger' sta. 246, 'Mid-North Pacific': 36° 10' N., 178° E., 2050 fms. and sta. 281, 'mid South Pacific': 22° 21' S., 150° 17' W., 2385 fms.
- Distribution: eastern Honshū to northern Pacific.
- Habitat: 3750 to 4430 m.

□ Genus *Yoldia* MÖLLER, 1842

Type species: *Yoldia arctica* MÖLLER, 1842 non GRAY, 1824 (o. d.; = *Yoldia hyperborea* TORELL, 1859 ICZN op. 769)

Subgenus *Yoldia s. str.*

**B23 *Y. (Y.) kikuchii* KURODA, 1929**

Naginata-sode-gai

- Type locality: Toyama bay, eastern Noto peninsula, Japan Sea.
- Distribution: Japan Sea (Toyama bay and westwards, off Fukui prefecture).
- Habitat: 100-150 m., fine sand and mud.

**B24 *Y. (Y.) similis* KURODA & HABE in HABE, 1961**

(= *Y. naganumana* KURODA, 1929 non YOKOYAMA, 1920; *Y. similis sensu* KURODA & HABE, 1952-a)

Naga-sode-gai

- Type locality: 'Sōyō-Maru' sta. 151, off eastern Honshū: 37° 59' N., 141° 28.30' E., 123 m.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (off northern Niigata prefecture, J3-J1), EC5, East China Sea; Yellow Sea.
- Habitat: 100-300 m., fine sandy mud.

**B25 *Y. (Y.) amygdalea* (VALENCIENNES, 1846)**

Sumomo-sode-gai

- Type locality: 'Kamtschatka' (Kamchatka peninsula).
- Distribution: off Iwate prefecture, P9-P10, Japan Sea (off Fukui prefecture and northwards, J2-J5), OP, Kuril islands; northern Pacific.

- Habitat: 9-300 m., fine sand.
- Original genus: *Nucula*.

**B26 *Y. (Y.) limatula* (SAY, 1831)**

Tsuya-sode-gai

- Type locality: Maine and Massachusetts, northeastern USA.
- Distribution: eastern and western Hokkaidō, P10, Japan Sea (Oga peninsula and northwards, J3-J5), OP, Okhotsk Sea; Bering Sea, northern Pacific, northern Atlantic Ocean.
- Habitat: 50-100 m., sandy mud.

**B27 *Y. (Y.) glauca* KURODA & HABA in HABA, 1961-a**

Kumori-sode-gai (= Hai-iro-naga-sode-gai; Kumori-rōbai)

- Type locality: off Cape Ashizuri, southwestern Shikoku; 100-200 m.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea, southwestern Hokkaidō (HABA & ITŌ, 1965); East China Sea, 80-200 m. (BERNARD *et al.*, 1993).
- Habitat: 100-200 m., fine sand.

**Subgenus *Cnesterium* DALL, 1898-a**

Type species: *Yoldia (Cnesterium) scissurata* DALL, 1897 (o. d.)

**B28 *Y. (C.) scissurata* DALL, 1897-a**

(= *Y. arctica* BRODERIP & SOWERBY, 1829 *non* GRAY, 1824; *Y. ensifera* DALL, 1897)

Urita-sode-gai (= Hidatori-sode-gai)

- Distribution: eastern Hokkaidō and northwards, Okhotsk Sea; Bering Sea, northern Pacific, northwestern USA.
- Habitat: 9-400 m., sand and mud.

**B29 *Y. (C.) notabilis* YOKOYAMA, 1922**

furisode-gai

- Type locality: Ōtake, Narita City, Chiba prefecture, central Honshū (fossil).
- Distribution: Bōsō peninsula and northwards, P8-P9, Japan Sea (Mishima, J1-J4), Hokkaidō (MATSUKUMA *et al.*, 1991), Okhotsk Sea, South China Sea.
- Habitat: 20-300 m., sandy mud.

**B30 *Y. (C.) seminuda* DALL, 1871**

(= *Y. excavata* DALL, 1925)

Kita-no-furisode-gai (= Karafuto-furisode-gai)

- Type locality: St. Paul's harbour, Kodiak (Kodiak, Alaska).
- Distribution: Hokkaidō (MATSUKUMA *et al.*, 1991), northern Japan Sea (J4-J5), P10, OP, Okhotsk Sea; northern Pacific, Alaska.
- Habitat: 50-100 m., sandy mud.

**B31 *Y. (C.) johanni* DALL, 1925**

Ezo-sode-gai

- Type locality: 'north Japan'.
- Distribution: northeastern Honshū (Fukushima prefecture)

and northwards, P8-P10, Hokkaidō (MATSUKUMA *et al.*, 1991), OP, Kuril islands, Okhotsk Sea, northeastern Japan Sea; northeastern Korea.

- Habitat: 10-100 m., fine sandy mud.

□ Genus ***Megayoldia* VERRILL & BUSH, 1897**

Type species: *Nucula thraciaeformis* STORER, 1838 (o. d.)

**B32 *M. thraciaeformis* (STORER, 1838)**

(= *Yoldia scapha* YOKOYAMA, 1926 (*pars*))

- Type locality: Massachusetts bay, eastern USA (fossil).
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, P9-P10, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J4), OP, Okhotsk Sea; off Kamchatka, northern Pacific, northwestern USA, northern Atlantic Ocean.
- Habitat: 25-550 m., mud.
- Original genus: *Nucula*.

□ Genus ***Portlandia* MÖRCH, 1857**

Type species: *Nucula arctica* GRAY, 1824 (s. d. ICZN, 1966 - op. 769)

**B33 *P. japonica* (ADAMS & REEVE, 1850 in 1848-50)**

Bekkō-kirara (= Bekkō-sode-gai)

- Type locality: 'Kieu-sieu, Nangasaki Bay' (Nagasaki bay, western Kyūshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, East China Sea; Yellow Sea, Korea.
- Habitat: 10-300 m., fine sandy mud.
- Original genus: *Nucula*.

**B34 *P. toyamaensis* (KURODA, 1929)**

Toyama-sode-gai

- Type locality: Toyama bay, eastern Noto peninsula, Japan Sea.
- Distribution: Japan Sea (Oga peninsula and southwards, J3-J1), EC5, ECP4.
- Habitat: 100-600 m., sand.
- Original genus: *Yoldia*.

**B35 *P. lischkei* (E. A. SMITH, 1885-a)**

Ō-bekkō-kirara

- Type locality: 'Challenger' sta. 232, 'off Inosima' (Sagami bay, off Enoshima): 35° 11' N., 139° 28' E., 345 fms.
- Distribution: Suruga bay (OKUTANI, 1966), Sagami bay (OKUTANI, 1962; 1968) to Enshū-nada (off Aichi prefecture), Japan Sea (off Fukui prefecture), East China Sea.
- Habitat: 100-1400 m., fine sandy mud.
- Original genus: *Yoldia*.

□ Genus ***Yoldiella* VERRILL & BUSH, 1897**

Type species: *Yoldia lucida* LOVÉN, 1846 (o. d.)

Subgenus ***Yoldiella s. str.***



**B36 *Y. (Y.) philippiana* (NYST, 1844)**

(= *Nucula pygmaea* MÜNSTER, 1835 *nomen nudum*; *N. tenuis* PHILIPPI, 1836 *non* MONTAGU, 1808 in 1803-08; *Yoldia kibi* KURODA, 1929)

Kibi-sode-gai

- Type locality: 'Anvers. En Sicile, fossile dans les Argiles de Palerme' (Anvers, Belgium and Palermo, Sicily, fossil).
- Distribution: Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J4), Hokkaidō, P10 (40-450 m., sand), Suruga bay (2230 m.); northern Pacific, northern Atlantic Ocean.
- Original genus: *Nucula*.

**Subgenus *Parayoldiella* FILATOVA, 1971**

Type species: *Yoldiella (Parayoldiella) ultraabyssalis* FILATOVA, 1971 (o. d.)

**B37 *Y. (P.) ultraabyssalis* FILATOVA, 1971**

Naraku-sode-gai

- Type locality: off Cape Kamchatka, 8355-9530 m.
- Distribution: off northeastern Honshū; Kamchatka.

**B38 *Y. (P.) idsubonini* FILATOVA, 1971**

Hidatori-naraku-sode-gai

- Type locality: Izu-Ogasawara sea Trench, 8810-8830 m.
- Distribution: recorded only from type locality.

**Family MALLETIIDAE H. & A. ADAMS, 1858 in 1853-58**

□ Genus *Malletia* DES MOULINS, 1832

Type species: *Malletia chilensis* DES MOULINS, 1832 (mt.)

**B39 *M. angulata* SOWERBY III, 1888-a**

- Type locality: 'Bay of Bengal, 200 fath.'
- Distribution: Kyūshū; East China Sea (BERNARD *et al.*, 1993); type locality.
- Habitat: 200-370 m., sandy mud.

**B40 *M. takaii* OKUTANI, 1968**

Takai-sode-gai

- Type locality: 'Sōyō-Maru' sta. B2, off Miyake island, Izu islands: 34° 22.2' N., 139° 41.9' E., 1080-1205 m.
- Distribution: Sagami bay to type locality (OKUTANI, 1968), Kii peninsula (TSUCHIDA, 1985-b), Tosa bay (TSUCHIDA, 1994-b).

□ Genus *Pseudomalletia* FISCHER, 1886

Type species: *Yoldia obtusa* SARS, 1872 (s. d. DALL, 1898)

**B41 *P. humilior* (PRASHAD, 1932)**

- Type locality: 'Siboga' sta. 88, Macassar strait, Indonesia: 0° 34.6' N., 119° 8.5' E., 1301 m.
- Distribution: off Amami Ōshima (950 m. OKUTANI, 1966), ECP3-ECP2, P2; South China Sea, Indonesia.
- Habitat: 500-950 m., mud & sand.

- Original genus: *Malletia*.

□ Genus *Bathymalletia* KURODA & HABE in KURODA *et al.*, 1971

Type species: *Malletia inaequilateralis* HABE, 1951 (o. d.)

**B42 *B. inaequilateralis* (HABE, 1951-a)**

Sumizome-sode-gai

- Type locality: Tosa bay, southern Shikoku.
- Distribution: Bōsō peninsula and southwards, Kii peninsula, Tosa bay.
- Habitat: 50-200 m., fine sand.
- Original genus: *Malletia (Bathymalletia)*.

**B43 *B. dunkeri* (E. A. SMITH, 1885-a)**

- Type locality: 'Challenger' sta. 237, 'off the south-east of Nipon, Japan' (Honshū): 34° 37' N., 140° 32' E., 1875 fms.
- Distribution: off eastern Honshū (3500-3750 m.), East China Sea (2500-3000 m., sandy mud).
- Original genus: *Malletia*.

**B44 *B. cuneata* (JEFFREYS, 1876)**

- Type locality: 'Valorous' sta. 9, entrance to Davis Strait' (western Greenland), 1750 fms. Also 'North Atlantic; NW Ireland; Bay of Biscay; Mediterranean'.
- Distribution: off eastern Honshū, 6200 m. (R. V. 'Vityaz').

**Family NEILONELLIDAE ALLEN, 1978**

□ Genus *Carinineilo* KURODA & HABE in KURODA *et al.*, 1971

Type species: *Malletia (Neilo) carinifera* HABE, 1951 (o. d.)

**B45 *C. carinifera* (HABE, 1951-a)**

Onedake-sode-gai

- Type locality: Tosa bay, southern Shikoku.
- Distribution: Sagami bay and southwards, Suruga bay, off Kii peninsula, Tosa bay.
- Habitat: 100-2300 m., fine sandy mud.
- Original genus: *Malletia (Neilo)*.

□ Genus *Neilonella* DALL, 1881

Type species: *Leda (Neilonella) corpulenta* DALL, 1881 (mt.)

**B46 *N. dubia* PRASHAD, 1932**

(= *N. coix* HABE, 1951-a)

Hatomugi-sode-gai

- Type locality: 'Siboga' sta. 52, between Flores and Sumba, Indonesia: 09° 3.4' S., 119° 56.7' E., 959 m.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; South China Sea, southeast Asia, Indonesia.
- Habitat: 50-600 m., sand.

**B47 *N. soyoae* HABE, 1958-a**

Sōyō-hatomugi-sode-gai

- Type locality: 'Sōyō-Maru' sta. 414, off Yakushima

(Kagoshima prefecture, southern Kyūshū): 514 m., muddy sand.

- Distribution: Izu islands (off Izu-Ōshima OKUTANI, 1966), off Chōshi (Chiba prefecture, central Honshū) and southwards, Sagami bay (OKUTANI, 1966; 1968), Bōsō peninsula (TSUCHIDA & KUROZUMI, 1995-b), Suruga bay, Kii peninsula (TSUCHIDA, 1985-b), P5, EC5, ECP4.
- Habitat: 100-2000 m., sand.

**B48 *N. japonica* OKUTANI, 1962**

Nippon-hatomugi-sode-gai

- Type locality: 'Sōyō-Maru' sta. T28, Sagami bay, central Honshū: 35° 03.6' N., 139° 22.4' E., 1320-1400 m.
- Distribution: Izu islands (off Miyake island OKUTANI, 1968), Sagami bay (OKUTANI, 1962; 1966; 1968), Kii peninsula (TSUCHIDA, 1985-b), Tosa bay (TSUCHIDA, 1994-b), Japan Sea (off Noto peninsula).
- Habitat: 150-1400 m., sand.

**B49 *N. kirai* HABE, 1953-d**

Kira-hatomugi-sode-gai

- Type locality: Tosa bay off Kōchi prefecture, southern Shikoku; 100-250 m.
- Distribution: Tosa bay, western Japan Sea (off Tsushima), western Kyūshū.
- Habitat: 100-500 m., sand.

Family **TINDARIIDAE VERILL & BUSH, 1897**

□ Genus ***Tindaria* BELLARDI, 1875**

Type species: *Tindaria arata* BELLARDI, 1875 (mt.)

**B50 *T. soyoae* HABE, 1953-d**

Mijin-sode-gai

- Type locality: 'Sōyō-Maru' sta. 304, off Toimisaki, Miyazaki prefecture (southeastern Kyūshū): 31° 24' 40" N., 131° 31' 40" E., 241 m., sandy mud.
- Distribution: off southern Kyūshū.
- Habitat: 100-250 m., sandy mud.

**B51 *T. similis* OKUTANI, 1962**

Fukami-sode-gai (= Yomo-sugara-sode-gai)

- Type locality: 'Sōyō-Maru' sta. b, 56 miles off Aogashima, Izu islands: 32° 20.0' N., 140° 55.5' E., 3150-3350 m.
- Distribution: off Bōsō peninsula and southwards, P7-P5, EC5, East China Sea.
- Habitat: 1800-3610 m., sandy mud.

Family **NUCULANIDAE H. & A. ADAMS, 1858 in 1853-58**

Subfamily **NUCULANINAE H. & A. ADAMS, 1858 in 1853-58**

□ Genus ***Nuculana* LINK, 1807**

Type species: *Arca rostrata* CHEMNITZ, 1774 (o. d.); = *Arca pernula* MÜLLER, 1771)

Subgenus ***Nuculana s. str.***

**B52 *N. (N.) pernula pernuloidea* (DUNKER, 1882)**

Shiwa-rōbai

- Type locality: Japan (no specific locality given, but '*inter alia Mollusca Japonica*' in text).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and northwards, P8-P10, OP, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J5), Kuril islands, Okhotsk Sea; 'East China Sea, Yellow Sea' (BERNARD *et al.*, 1993), northern Pacific, northern Atlantic Ocean.
- Habitat: 20-200 m., fine sandy mud.
- Original genus: *Leda*.

**B53 *N. (N.) pernula sadoensis* (YOKOYAMA, 1926)**

Migaki-rōbai

- Type locality: Sado island, Japan Sea (fossil).
- Distribution: Sagami bay, P6-P10, Japan Sea (off Niigata prefecture and northwards, J3-J5), (100-200 m., fine sandy mud); 'Yellow Sea, Korea to Kyūshū, 40-60 m., in mud' (BERNARD *et al.*, 1993).

**B54 *N. (N.) pernula kawamurai* HABE, 1961**

Kawamura-rōbai

- Type locality: off Chōshi (Chiba prefecture, central Honshū); 200 m.
- Distribution: Kashima-nada (off Ibaraki prefecture), Sagami bay (100-200 m., fine sandy mud); 'Yellow Sea to Kyūshū, 200-250 m., mud' (BERNARD *et al.*, 1993).

**B55 *N. (N.) pernula radiata* (KRAUSE, 1885)**

• Type locality: 'Emmahafen, 10-15 fms.' (Plover bay, Bering strait, Chukchi (Chukotsk) peninsula, eastern Siberia).

- Distribution: southwestern Hokkaidō and northwards, P10, OP, Kuril islands, Okhotsk Sea; Bering Sea.
- Habitat: 50-200 m., sandy mud.

Subgenus ***Thestylea* IREDALE, 1929**

Type species: *Leda ramsayi* E. A. SMITH, 1885 (o. d.)

**B56 *N. (T.) yokoyamai yokoyamai* KURODA, 1934-b**

(= *Leda ramsayi sensu* YOKOYAMA, 1920 non E. A. SMITH, 1885)

Arabori-rōbai

- Type locality: Sagami bay, central Honshū.
- Distribution: Mutsu bay (Aomori prefecture) and southwards, P9-P5, Japan Sea (Sado island, J3-J1), EC5 (50-450 m., fine sand and mud); 'Yellow Sea, Korea to Honshū, 30-80 m., mud' (BERNARD *et al.*, 1993).

**B57 *N. (T.) yokoyamai arai* HABE, 1958-a**

Oni-arabori-rōbai

- Type locality: 'Sōyō-Maru' sta. 468, off Tsushima, western Japan Sea: 112 m., sandy mud.
- Distribution: Enshū-nada (off Aichi prefecture) and southwards, P6-P5, Japan Sea (J2-J1), EC5 (50-250 m.,

fine sand); 'Yellow Sea, 60-150 m., mud' (BERNARD *et al.*, 1993).

**B58 *N. (T.) acinacea* HABE, 1958-a**

- Type locality: Tosa bay off Kōchi prefecture, southern Shikoku; 200-300 m.
- Distribution: Kii peninsula and westwards, Tosa bay (200-300 m., fine sand).

**B59 *N. (T.) scalata* PRASHAD, 1932**

Enaga-rōbai (= Nanban-rōbai)

- Type locality: 'Siboga' sta. 300, off southern Timor, Indonesia: 10° 48.6' S., 123° 23.1' E., 918 m.
- Distribution: Sagami bay (OKUTANI, 1962), Tosa bay (off Kannoura HABE, 1958-a); Taiwan, South China Sea, Indonesia.
- Habitat: 250-1000 m., sandy mud.

**B60 *N. (T.) subscalata* OKUTANI, 1962**

Tsugi-no-enaga-rōbai

- Type locality: 'Sōyō-Maru' sta. 51, 13 miles off Izu-Ōshima, Izu islands: 34° 35.5' N., 139° 40.4' E., 1560-1640 m.
- Distribution: central Honshū (Izu-Ōshima; Miyake island; Sagami bay OKUTANI, 1966; 1968).
- Habitat: 600-1640 m.

**B61 *N. (T.) aikawai* HABE, 1958-a**

Aikawa-rōbai

- Type locality: 'Sōyō-Maru' sta. 499, off Iki island, northern Kyūshū: 35° 55' 15" N., 132° 33' 45" E., 207 m., muddy sand.
- Distribution: recorded only from type locality.

**B62 *N. (T.) soyoeae* HABE, 1958-a**

Futakado-sode-gai

- Type locality: 'Sōyō-Maru' sta. 392, Kii strait: 33° 51' 00" N., 134° 52' 40" E., 61 m., sand.
- Distribution: Enshū-nada (off Shizuoka prefecture), P6-P5, EC5, ECP4.
- Habitat: 50-200 m., fine sand.

**B63 *N. (T.) sagamiensis* OKUTANI, 1962**

Sagami-arabori-rōbai

- Type locality: 'Sōyō-Maru' sta. T28, Sagami bay, central Honshū: 35° 03.6' N., 139° 22.4' E., 1320-1400 m.
- Distribution: southern Hokkaidō and southwards, off Iwate prefecture, Sagami bay (OKUTANI, 1968), Suruga bay.
- Habitat: 700-1500 m., fine sandy mud.

**B64 *N. (T.) kiiensis* TSUCHIDA & OKUTANI, 1985**

Kii-shakushi-rōbai

- Type locality: southwest off Cape Shio, Wakayama prefecture (Kii peninsula): 33° 23.8' N., 135° 41.7' E. to 33° 24.0' N., 135° 42.5' E., 353-416 m.

- Distribution: Bōsō peninsula (TSUCHIDA & KUROZUMI, 1995-b), Kii strait.
- Habitat: 350-450 m.

**B65 *N. (T.) tanseimaruae* TSUCHIDA & OKUTANI, 1985**

Tansei-enaga-rōbai

- Type locality: southwest off Cape Shio, Wakayama prefecture (Kii peninsula): 33° 23.8' N., 135° 41.7' E. to 33° 24.0' N., 135° 42.5' E., 353-416 m.
- Distribution: Bōsō peninsula (TSUCHIDA & KUROZUMI, 1995-b), Kii peninsula (off Kushimoto, 600 m.) and southwards, southern Kyūshū (off Kushikino) to Tanegashima & Yakushima (993-1031 m. TSUCHIDA, 1993).
- Habitat: 700-1031 m.

**Subgenus *Robaia* HABE, 1958-a**

Type species: *Leda robai* KURODA, 1929 (o. d.)

**B66 *N. (R.) robai* (KURODA, 1929)**

Chiri-rōbai (= Rōbai)

- Type locality: Toyama bay, eastern Noto peninsula, Japan Sea.
- Distribution: Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967), J2-J3.
- Habitat: 100-335 m., sandy mud.
- Original genus: *Leda*.

□ Genus *Tenuileda* HABE, 1977-a

Type species: *Nuculana conceptionis ikebei* SUZUKI & KANEHARA, 1936 (o. d.)

**B67 *T. ikebei* (SUZUKI & KANEHARA, 1936)**

Kagerō-sode-gai

- Type locality: Ishigami, Ichihara City, Chiba prefecture, central Honshū (fossil).
- Distribution: Kashima-nada (off Ibaraki prefecture ŌYAMA, 1951) to Sagami bay (OKUTANI, 1968) and Suruga bay (OKUTANI, 1962; 1966).
- Habitat: 700-1030 m., mud.
- Original genus: *Nuculana*.

□ Genus *Poroleda* TATE, 1893

Type species: *Scaphula lanceolata* HUTTON, 1885 (s. d. COTTON & GODFREY, 1938)

**B68 *P. soyomaruae* (OKUTANI, 1962)**

Yanagiba-sode-gai (= Sōyō-sode-gai)

- Type locality: 'Sōyō-Maru' sta. 72, 50 miles off Kushikino, Kagoshima prefecture, southern Kyūshū: 31° 31.0' N., 129° 21.0' E., 730-760 m.
- Distribution: off western Kyūshū and southwards; South China Sea.
- Habitat: 700-800 m., mud.
- Original genus: *Nuculana* (*Poroleda*).

□ Genus *Saccella* WOODRING, 1925

Type species: *Arca fragilis* CHEMNITZ, 1784 (o. d.)  
(= *Ledina* SACCO, 1898 (Dec.) non DALL, 1898 (Apr.))  
Subgenus *Saccella s. str.*

B69 *S. (S.) confusa* (HANLEY, 1860)

Genroku-sode-gai  
• Type locality: 'China Sea'.  
• Distribution: off Fukushima prefecture, P8-P5, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea; South China Sea, Philippines, Indonesia.  
• Habitat: 10-60 m., sand.  
• Original genus: *Leda*.

B70 *S. (S.) gordonis* (YOKOYAMA, 1920)

Gorudon-sode-gai  
• Type locality: Naganuma, Totsuka-ku, Yokohama City (fossil).  
• Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (northern Niigata prefecture, J3-J1), EC5, East China Sea; Yellow Sea, Korea.  
• Habitat: 15-300 m., fine sand and mud.  
• Original genus: *Leda*.

B71 *S. (S.) sematensis* (SUZUKI & ISHIZUKA, 1943)

Arasuji-sode-gai  
• Type locality: Semata, Ichihara City, Chiba prefecture, central Honshū (fossil).  
• Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea.  
• Habitat: 20-450 m., fine sandy mud.  
• Original genus: *Nuculana*.

**Notes:** Takao-rōbai *Nuculana takaoensis* ŌTSUKA, 1936 (Type locality: Kigo beach, Takao (Kaohsiung), Taiwan) was cited from 'Honshū' (BERNARD *et al.*, 1993) but the present authors have been unable to confirm distribution of this species in Japan.

Subgenus *Costanuculana* HABE, 1951-a

Type species: *Nuculana husamaru* NOMURA, 1940 (o. d.)

B72 *S. (C.) husamaru* (NOMURA, 1940)

(= *S. soyoae* HABE, 1958-a)  
Sudare-sode-gai  
• Type locality: off Bōsō peninsula (central Honshū), between Minami-Asai and Nojimasaki (cape); 130-147 m.  
• Distribution: off Bōsō peninsula and westwards, Sagami bay, Kii peninsula ('East China Sea' BERNARD *et al.*, 1993 is considered doubtful by the present authors).  
• Habitat: 50-150 m., fine sand.  
• Original genus: *Nuculana*.

Subfamily LEDELLINAE ALLEN, 1978

□ Genus *Ledella* VERRILL & BUSH, 1897

Type species: *Leda messanensis* SEGUENZA, 1877 (s. d. VERRILL & BUSH, 1897)  
(= *Junonia* SEGUENZA, 1877 non HÜBNER, 1819)

B73 *L. squamaeformis* (OKUTANI, 1966)

Uroko-sode-gai (= Otohime-sode-gai)  
• Type locality: 'Sōyō-Maru' sta. T21(2), Sagami bay, central Honshū: 34° 56.8' N., 139° 28.1' E., 1470-1500 m.  
• Distribution: Izu islands (off Miyake island OKUTANI, 1968), Sagami bay (OKUTANI, 1968), Suruga bay.  
• Habitat: 1080-2300 m.  
• Original genus: '*Sarepta*'?

**Notes:** Ryūgū-sode-gai *L. tamara* GORBUNOV, 1946 (type locality: Arctic Ocean, 81° 1' N., 137° 3' E., 3700-3800 m) is not known from Japan; the present authors have been unable to confirm whether or not the specimen figured by OKUTANI (1966: p. 6, fig. 3) from off Amami Ōshima (950 m.) belongs to this species.

Subfamily SPINULINAE ALLEN & SAUNDERS, 1982

□ Genus *Spinula* DALL, 1908-c

Type species: *Leda (Spinula) calcar* DALL, 1908 (o. d.)  
(= *Bathyspinula* FILATOVA, 1958)

B74 *S. calcar* (DALL, 1908-c)

(= *Leda carcarella* DALL, 1908-c; *L. prolata* E. A. SMITH, 1885)  
• Type locality: 'Albatross' sta. 4658, off Peru: 8° 30' S., 85° 36' W.  
• Distribution: Kii peninsula to Kuril islands (outside Japan Trench, 4160-6096 m.), Ogasawara Trench to northwestern Pacific, Peru Trench, Kermadec Trench.  
• Habitat: 1500-3500 m., mud.  
• Original genus: *Leda (Spinula)*.

B75 *S. oceanica* FILATOVA, 1958

Wadatsumi-sode-gai  
• Type locality: 'Vityaz' sta. 6088, Gulf of Alaska: 53° 58' N., 157° 37' W., 5740 m.  
• Distribution: Bōsō peninsula to Kamchatka (both sides of Japan Trench, 4640 to 6272 m.)

B76 *S. vityazi* FILATOVA, 1964

Naraku-toge-sode-gai  
• Type locality: northern Pacific.  
• Distribution: Japan Trench, Kuril Trench.  
• Habitat: 6475-9335 m.

B77 *S. pelvishikokuensis* OKUTANI, 1975-b

Shintei-sode-gai  
• Type locality: outer Tosa bay, southern Shikoku: 29° 52.4' N., 133° 06.2' E., 3160 m.  
• Distribution: Tosa bay and southwards, southeastern Kyūshū.

B78 *S. bogorovi* FILATOVA, 1958

Bogorobu-wadatsumi-sode-gai

- Type locality: off Amami Ōshima, 6724 m.
- Distribution: Izu islands to Ogasawara islands (2000-4000 m.), off eastern Nansei (Amami) islands, 2000-7000 m.

Order SOLEMYOIDA DALL, 1889

Family SOLEMYIDAE H. & A. ADAMS, 1857 in 1853-58

(Refs.: Habe, 1950-g)

□ Genus *Petrasma* DALL, 1908

Type species: *Solemya borealis* TOTTEN, 1834 (o. d.)

B79 *P. pusilla* (GOULD, 1861 in 1859-61)

Kinutare-gai (= Kinu-tade)

- Type locality: 'Hakodadi Bay (Hakodate, Hokkaidō), in 5 fathoms, muddy bottom'.
- Distribution: southern Hokkaidō and southwards, P10-P5, Seto inland sea (Yanai bay KATŌ & FUKUDA, 1996), EC5; Korea, Yellow Sea.
- Habitat: intertidal to 200 m., sandy mud.
- Original genus: *Solemya*.

B80 *P. pervernicosa* KURODA, 1948

Abura-kinutare-gai

- Type locality: off Cape Erimo, southeastern Hokkaidō; 250 fms.
- Distribution: Kii peninsula and northwards, P6-P10, Okhotsk Sea; Japan Sea (HABE, 1977-a).
- Habitat: 100-500 m., sandy mud.

B81 *P. japonica* (DUNKER, 1882)

(= *Solemya yamakawai* YOKOYAMA, 1927)

Asahi-kinutare-gai

- Type locality: no specific locality given; 'Japan' from book title.
- Distribution: southern Hokkaidō and southwards, P10-P5, Seto inland sea (Yanai bay KATŌ & FUKUDA, 1996), Japan Sea (Yamagata prefecture, J3-J1), EC5; Yellow Sea.
- Habitat: intertidal to 20 m., sandy mud.
- Original genus: *Solenomya*.

□ Genus *Acharax* DALL, 1908-b

Type species: *Solemya johnsoni* DALL, 1891 (o. d.)

B82 *A. johnsoni* (DALL, 1891)

(= *Solemya tokunagai* YOKOYAMA, 1925; *S. (Acharax) tibai* KURODA, 1948.)

Suehiro-kinutare-gai

- Type locality: 'Albatross' sta. 3010, off southern California, USA.
- Distribution: southern Shikoku (Tosa bay TSUCHIDA, 1994-b), Sagami bay (845-1510 m. OKUTANI, 1968), off Chōshi (Chiba prefecture, central Honshū), P8-P10; western Americas (Oregon to Peru).
- Original genus: *Solemya*.

Family NUCINELLIDAE VOKES, 1956

□ Genus *Nucinella* WOOD, 1851

Type species: *Pleurodon ovalis* WOOD, 1840 (s. d. STOLICZKA, 1870 in 1870-71)

B83 *N. kanekoi* MATSUKUMA, OKUTANI & TSUCHI, 1982

Ko-kurumi-gai-modoki

- Type locality: Tosa bay off Kōchi prefecture, southern Shikoku.
- Distribution: Tosa bay.
- Habitat: 200-300 m.

B84 *N. viridis* MATSUKUMA, OKUTANI & TSUCHI, 1982

Kurumi-gai-modoki

- Type locality: off Nojimazaki (cape), Bōsō peninsula; upper abyssal zone, 2630-2890 m.
- Distribution: recorded only from type locality.

B85 *N. surugana* MATSUKUMA, OKUTANI & TSUCHI, 1982

Suzume-no-kibigara-gai

- Type locality: Tago-no-ura, Suruga bay, central Honshū; 35° 07' N., 138° 44' E., 500 m.
- Distribution: recorded only from type locality.

B86 *N. ovata* (JEFFREYS, 1879)

- Type locality: Korean strait.
- Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Nucinella*.

□ Genus *Huxleyia* A. ADAMS, 1860-b

Type species: *Huxleyia sulcata* A. ADAMS, 1860-b (mt.) (= *Cyrilla* A. ADAMS, 1860-b)

B87 *H. sulcata* A. ADAMS, 1860-b

Kibigara-gai

- Type locality: 16 miles off off Mishima, western Japan Sea; 63 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Sado island, J3-J1), EC5.
- Habitat: 50-200 m., sandy mud.

B88 *H. decussata* (A. ADAMS, 1862-c)

- Type locality: 'Gotto Islands' (Gotō islands, off western Kyūshū); 48 fms.
- Distribution: recorded only from type locality.
- Original genus: *Cyrilla*.

B89 *H. cavernicola* HAYAMI & KASE, 1993

Kakure-kibigara-gai

- Type locality: Shimoji islet, Miyako islands (southern Okinawa prefecture).
- Distribution: Okinawa (Shimoji, Irabu & Ie islands, in caves); Philippines (Balicasag Cave off Panglao, Bohol).

- Habitat: subtidal, in caves.

Subclass **PTERIOMORPHA BEURLEN, 1944**

Order **MYTILOIDA FÉRUSAC, 1822**

Superfamily **MYTILOIDEA RAFINESQUE, 1815**

Family **MYTILIDAE RAFINESQUE, 1815**

Subfamily **MYTILINAE RAFINESQUE, 1815**

□ Genus ***Mytilus* LINNAEUS, 1758**

Type species: *Mytilus edulis* LINNAEUS, 1758 (s. d. GRAY, 1847)

B90 ***M. galloprovincialis* LAMARCK, 1819**

(= *M. grunerianus* DUNKER, 1853; *M. violaceus* CLESSIN, 1889 non LAMARCK, 1819)

Murasaki-igai (= Yōroppa-igai)

- Type locality: northern France.
- Distribution: southern Hokkaidō and southwards, P10-P5, Ogasawara islands (TACHIKAWA, 1996), Japan Sea (J4-J1), EC5, Yaeyama islands (Iriomote KUBOTA & SHIMABUKURO, 1996), East China Sea; Russia (Primoriye region ARZAMASTSEV, 1997), Korea, worldwide in cool and temperate seas.
- Habitat: intertidal to 20 m., attached by byssus to rocks, stones etc.

**Notes:** *Mytilus edulis* LINNAEUS, 1758 is not known from Japan; see GOSLING (1992).

B91 ***M. coruscus* GOULD, 1861 in 1859-61**

(= *M. crassitesta* LISCHKE, 1868; *M. dunkeri sensu* LISCHKE, 1869 non REEVE, 1857)

Igai

- Type locality: 'Hakodadi Bay (Hakodate, Hokkaidō), common on rocks between tide marks'.
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J4-J1), EC5, Yaeyama islands (Iriomote KUBOTA & SHIMABUKURO, 1996), East China Sea; Yellow Sea, Korea, Primoriye region (Japan Sea coast of Russia).
- Habitat: intertidal to 20 m., attached by byssus to rocks.

B92 ***M. divaricatus* GOULD, 1851 in 1846-50**

- Type locality: 'China Seas'.
- Distribution: East China Sea.
- Habitat: intertidal to 15 m., on rocks and pilings (BERNARD *et al.*, 1993).

B93 ***M. trossulus* GOULD, 1850 in 1846-50**

Kita-no-murasaki-igai

- Type locality: 'Killimook' (Tillamook, Oregon) and Puget Sound, Washington State, northwestern USA.
- Distribution: northeastern Honshū and northwards, Hokkaidō (OKUTANI, 1996); northwestern USA.
- Habitat: intertidal, on rocks.

□ Genus ***Crenomytilus* SOOT-RYEN, 1955**

Type species: *Mytilus grayanus* DUNKER, 1853 (o. d.)

B94 ***C. grayanus* (DUNKER, 1853)**

Ezo-igai

- Type locality: '*ad insulam Javam*' (Java, Indonesia).
- Distribution: northeastern Honshū (Fukushima prefecture) and northwards, P8-P10, OP, Okhotsk Sea, Kuril islands; northeastern Korea, Russia (southern Primoriye region ARZAMASTSEV, 1997).
- Habitat: subtidal to 60 m., attached by byssus to rocks.
- Original genus: *Mytilus*.

□ Genus ***Perna* RETZIUS, 1788**

Type species: *Mya perna* LINNAEUS, 1758 (s. d. SOOT-RYEN, 1955)

B95 ***P. viridis* (LINNAEUS, 1758)**

(= *Mytilus smaragdinus* GMELIN, 1791; *M. opalus* LAMARCK, 1819)

Midori-igai

- Type locality: '*in O. meridionali*' (Southern Ocean).
- Distribution: Tōkyō bay (introduced), East China Sea; Taiwan, Hainan, Hong Kong, South China Sea, Philippines, Indonesia.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Mytilus*.

□ Genus ***Brachidontes* SWAINSON, 1840**

Type species: *Modiola sulcata* LAMARCK, 1819 (o. d.; = *Arca modiolus* LINNAEUS, 1767)

B96 ***B. setigera* (DUNKER, 1856-b)**

(= *Modiola subsulcata* REEVE, 1857 non DUNKER, 1856)

Sukige-hibari-gai

- Type locality: '*ignota*' (unknown).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, South China Sea, western Pacific.
- Habitat: intertidal to 30 m., in sand among seaweed *Zostera* spp.
- Original genus: *Volsella*.

B97 ***B. striatulus* (HANLEY, 1844-a)**

(= *Modiola granolirata* SOWERBY, 1909)

Taiwan-hototogisu

- Type locality: none designated.
- Distribution: P2, East China Sea; Taiwan and southwards, South China Sea, Philippines.
- Habitat: intertidal to 30 m., mud.
- Original genus: *Modiola*.

Subfamily **SEPTIFERINAE SCARLATO & STAROBOGATOV, 1979**

□ Genus ***Septifer* RÉCLUZ, 1848**

Type species: *Mytilus bilocularis* LINNAEUS, 1758 (s. d. STOLICZKA, 1871)

Subgenus ***Septifer* s. str.**

**B98 *S. (S.) bilocularis* (LINNAEUS, 1758)**

(= *Mytilus nicobaricus* RÖDING, 1798; *Tichogonia wiegmanni* KÜSTER in MARTINI & CHEMNITZ, 1841; *S. cumingii* RÉCLUZ, 1849; *Mytilus pilosus* REEVE, 1858)

Kujaku-gai (= Mino-kujaku)

- Type locality: 'in *O. Indico*'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to 15 m., attached by byssus to rocks.
- Original genus: *Mytilus*.

**B99 *S. (S.) excisus* (WIEGMANN, 1837)**

(= *S. fuscus* RÉCLUZ, 1848; *S. troscheli* DUNKER, 1853; *Tichogonia siamensis* KOBELT in MARTINI & CHEMNITZ, 1886)

Shiro-inko-gai

- Type locality: 'indischen Ocean'.
- Distribution: Izu islands and southwards, Izu peninsula, P11, northern Ogasawara islands, P6-P5, EC5, ECP4-ECP2; Red Sea to western Pacific.
- Habitat: subtidal to 15 m., attached by byssus to rocks.
- Original genus: *Tichogonia*.

**B100 *S. (S.) rudis* DALL, BARTSCH & REHDER, 1938**

Ara-hime-igai

- Type locality: 'Albatross' sta. 4066, off Alenuihaha channel, Hawaii; 88-316 m.
- Distribution: Izu islands (Zenu; Ōtakara-dashi); Hawaii.
- Habitat: 80-350 m., rocks.

**Subgenus *Mytilisepta* HABE, 1951-a**

Type species: *Trichogonia virgata* WIEGMANN, 1837 (o. d.)

**B101 *S. (M.) virgatus* (WIEGMANN, 1837)**

(= *S. crassus* DUNKER, 1853)

Murasaki-inko

- Type locality: Indian Ocean.
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (J4-J1), EC5, ECP4-ECP2, P2, East China Sea; Korea, South China Sea, Philippines, entire Indo-Pacific.
- Habitat: intertidal, attached by byssus to rocks.
- Original genus: *Trichogonia*.

**B102 *S. (M.) keeni* NOMURA, 1936-b**

Hime-igai

- Type locality: Mutsu bay, Aomori prefecture, northern Honshū.
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4, East China Sea, P2; Korea, Yellow Sea.
- Habitat: intertidal to 20 m., attached by byssus to rocks.

□ Genus *Dentimodiolus* IREDALE, 1939

Type species: *Dentimodiolus sculptus* IREDALE, 1939

(= *Trichomya* IHERING, 1900 non HALIDAY, 1839)

**B103 *D. hirsutus* (LAMARCK, 1819)**

Kegai

- Type locality: Australia.
- Distribution: northeastern Honshū (Fukushima prefecture) and southwards, P8-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2, East China Sea; South China Sea, Indonesia, Indo-Pacific, Australia.
- Habitat: intertidal on rocks, attached by byssus.

**Subfamily MODIOLINAE KEEN, 1958**

□ Genus *Modiolus* LAMARCK, 1799

Type species: *Mytilus modiolus* LINNAEUS, 1758 (s. d. GRAY, 1847)

Subgenus *Modiolus s. str.*

**B104 *M. (M.) modiolus* (LINNAEUS, 1758)**

(= *M. papuana* LAMARCK, 1801)

Hon-ezo-hibari-gai

- Type locality: 'in *M. Mediterraneo*' (Mediterranean Sea).
- Distribution: northern Hokkaidō (Wakkanai) and northwards, Okhotsk Sea, northern Japan Sea (J6), East China Sea; Yellow Sea, Bo-hai, northern Pacific, northern Atlantic, Europe.
- Habitat: intertidal to 100 m., mud & sand.
- Original genus: *Mytilus*.

**B105 *M. (M.) kurilensis* BERNARD, 1983**

(= *M. modiolus* auct. non LINNAEUS, 1758; *M. difficilis* KURODA & HABE, 1950 non DESHAYES, 1863)

Ezo-hibari-gai

- Type locality: Kuril islands.
- Distribution: Tōkyō bay and northwards, P7-P10, Japan Sea (Oga peninsula, J3-J6); Russia (southern Primoriye region ARZAMASTSEV, 1997; Kamchatka), Korea, Yellow Sea.
- Habitat: intertidal to 35 m., attached by byssus to rocks.

**B106 *M. (M.) auriculatus* (KRAUSS, 1848)**

(= *Modiola plumescens* DUNKER, 1868)

Ryūkyū-hibari (= Somewake-hibari)

- Type locality: South Africa.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Australia, Red Sea to South Africa.
- Habitat: intertidal to 10 m., attached by byssus to rocks.
- Original genus: *Modiola*.

**B107 *M. (M.) agripetus* (IREDALE, 1939-b)**

(= *M. barbata* auct. non LINNAEUS, 1755; *Volsella auriculata* auct. non KRAUSS, 1848; *V. nipponica* ŌYAMA, 1950)

Hibari-gai

- Type locality: Queensland, Australia.

- Distribution: Mutsu bay (Aomori prefecture) and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea; southern Korea, Taiwan, South China Sea, Philippines, Australia.
- Habitat: intertidal to 100 m., attached by byssus to rocks.
- Original genus: *Volsella*.

**B108 *M. (M.) comptus* SOWERBY III, 1915**

Birōdo-makura

- Type locality: 'Iyo' (western Seto inland sea off Ehime prefecture, Shikoku).
- Distribution: Mie prefecture (Ago bay, 10 m. MATSUMOTO, 1979) and southwards, Seto inland sea, western Kyūshū (Ariake inland sea; Ōmura bay), East China Sea; Yellow Sea, Bo-hai, Hainan, South China Sea.
- Habitat: subtidal to 20 m., rocks and sand.
- Original genus: *Volsella*.

**B109 *M. (M.) margaritaceus* (NOMURA & HATAI, 1940)**

Mame-hibari

- Type locality: Kyuroku island, northern Japan Sea off Aomori prefecture.
- Distribution: southwestern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Sakhalin.
- Habitat: 30-450 m., sand and shell bottom.

**B110 *M. (M.) metcalfei* (HANLEY, 1843 in 1842-56)**

Koke-garasu (= Shōjō-hibari)

- Type locality: Philippines.
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (northern Yamaguchi prefecture, J1), EC5 (Ariake inland sea), ECP4-ECP2, East China Sea, P2; Philippines, Yellow Sea, South China Sea, Hong Kong, southeast Asia.
- Habitat: intertidal to 100 m., sand, shell and mud bottoms.

**B111 *M. (M.) philippinarum* (HANLEY, 1843 in 1842-56)**

(= *Modiola rumphii* PHILIPPI, 1847)

Hoso-suji-hibari

- Type locality: Philippines.
- Distribution: Kii peninsula and southwards, P5, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5, ECP4-ECP2, P2, East China Sea; Philippines, Hainan, South China Sea, Australia, Indonesia, Red Sea, Indo-Pacific.
- Habitat: intertidal to 20 m., sandy mud.
- Original genus: *Modiola*.

**B112 *M. (M.) trailli* (REEVE, 1857 in 1843-65)**

- Type locality: 'Malacca' (Indonesia).
- Distribution: 'Idzu coast' (Izu peninsula STEARNS & PILSBRY, 1895-a); 'Pacific coast, 25°-41° N., Japan Sea coast at 41° N.' (KURODA & HABA, 1952-a); Philippines,

Indonesia.

- Original genus: *Modiola*.

**Subgenus *Fulgida* JOUSSEAUME in LAMY, 1919-a**

Type species: *Perna fulgida* H. ADAMS, 1870 (o. d.; = *Modiola lignea* REEVE, 1858)

**B113 *M. (F.) flavidus* (DUNKER, 1856-b)**

Sazanami-makura

- Type locality: 'In sinu ad Manilam' (Manila bay, Philippines).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, P2; Philippines, South China Sea, western Pacific, Indian Ocean.
- Habitat: intertidal to 100 m., sandy mud.
- Original genus: *Volsella*.

**B114 *M. (F.) oyamai* HABA in KURODA & HABA, 1981**

Kogarasu-makura

- Type locality: Cape Shio, Wakayama prefecture (Kii peninsula); sand bottom, in prawn dredge.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5.
- Habitat: 50-100 m., sand.

**Subgenus *Modiolusia* YAMAMOTO & HABA, 1958**

Type species: *Modiola elongata* SWAINSON, 1821 (o. d.)

**B115 *M. (Mu.) elongata* SWAINSON, 1821**

(= *Modiola rhomboidea* CLESSIN 1890 non REEVE, 1857; *M. sirahensis* JOUSSEAUME, 1891; *M. subrugosa* GRABAU & KING, 1928)

Karasu-no-makura (= Tsuya-garasu; Ake-garasu)

- Type locality: 'Port Essington, New Holland' (western Australia).
- Distribution: Hokkaidō (Hakodate) and southwards, P10-P5, Seto inland sea (Yanai bay KATŌ & FUKUDA, 1996), Japan Sea (Noto peninsula, J2-J1), EC5, East China Sea, P2; Korea, Yellow Sea, Bo-hai, South China Sea, Philippines, southwestern Pacific.
- Habitat: 10-100 m., sand and mud.

**B116 *M. (Mu.) arata* (DUNKER, 1856-b)**

Nubatama-makura

- Type locality: 'In Novae Hollandiae litore septentrionali' (northern shores of Australia).
- Distribution: Okinawa and southwards, ECP2, P2, East China Sea, Australia.
- Habitat: intertidal to 30 m., sandy mud.
- Original genus: *Volsella*.

**B117 *M. (Mu.) vaginus* (LAMARCK, 1819 in 1815-22)**

Ishiwari-makura

- Type locality: 'l'Océan indien' (Indian Ocean).
- Distribution: Amami Ōshima and southwards, ECP3-



ECP2, P2; Philippines, South China Sea, Hainan (China), Australia.

- Habitat: subtidal to 20 m., in coral and muddy sand.
- Original genus: *Modiola*.

Subgenus *Modiolatus* JOUSSEAUME, 1893-b

Type species: *Mytilus plicatus* GMELIN, 1791 (o. d.)

B118 *M. (Modiolatus) hanleyi* (DUNKER, 1882)

Hanrei-hibari

- Type locality: no specific locality given; 'Japan' from book title.
- Distribution: Tōkyō bay and southwards, P7-P5, Seto inland sea, western Kyūshū (Ariake inland sea, EC5); Korea, Yellow Sea.
- Habitat: 10-60 m., mud.
- Original genus: *Modiola*.

□ Genus *Stavelia* GRAY, 1858-a

Type species: *Mytilus tortus* DUNKER, 1857 (o. d.; = *Mytilus subdistorta* RÉCLUZ, 1852)

B119 *S. subdistorta* (RÉCLUZ, 1852)

(= *Mytilus horridus* DUNKER, 1856; *M. tortus* DUNKER in REEVE, 1857)

Nan'yō-igai

- Type locality: 'On n'a pu nous dire, d'une maniere précise...on croit qu'elle est propre aux mers de la Chine' ('We were not told a precise locality....believed to be from Chinese seas' trans. *auct.*)
- Distribution: Tōkyō bay, Ise bay and introduced in various port areas in Japan; South China Sea, southern China, Philippines, Australia.
- Original genus: *Mytilus*.

□ Genus *Hormomya* MÖRCH, 1853

Type species: *Mytilus exutus* LINNAEUS, 1758 (s. d. JUKES-BROWN, 1905)

B120 *H. mutabilis* (GOULD, 1861 in 1859-61)

(= *Mytilus curvatus* DUNKER, 1856 non KLOEDEN, 1834)

Kuro-hibari-gai-modoki (= Hibari-gai-modoki)

- Type locality: 'Kagosima bay' (Kagoshima, southern Kyūshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2, East China Sea; South China Sea, western Pacific.
- Habitat: intertidal, attached to rocks and stones.
- Original genus: *Mytilus*.

Notes: CARPENTER (1864-a: 587) notes that this species belongs in *Septifer* rather than *Mytilus*; 'it is presumed that the learned author (GOULD) did not open a specimen'.

□ Genus *Exosiperna* IREDALE, 1929

Type species: *Arcoperna scapha* VERCO, 1908 (o. d.)

B121 *E. kuroharai* HABE, 1961-b

Otohime-no-yurikago

- Type locality: off Tosa-Shimizu, southwestern Shikoku; 80-150 fms.
- Distribution: western Kii peninsula, Tosa bay, western Kyūshū.
- Habitat: 150-300 m., sand.

□ Genus *Trichomusculus* IREDALE, 1924

Type species: *Lithodomus barbatus* REEVE, 1858 non LINNAEUS, 1758 (o. d.; = *Lithodomus semigranatus* REEVE, 1858)

B122 *T. semigranatus* (REEVE, 1858 in 1843-65)

(= *Lithodomus barbatus* REEVE, 1858 non LINNAEUS, 1758; *Modiolaria arcuata* GOULD, 1861)

Suji-tama-egai

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Sado island, J3-J1), EC5, East China Sea; South China Sea, Hainan, Philippines, Australia.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Lithodomus*.

□ Genus *Amygdalum* MÜHLFELD, 1811

Type species: *Amygdalum dendriticum* MÜHLFELD, 1811 (mt.)

B123 *A. watsoni* (E. A. SMITH, 1885-a)

Nuri-tsuya-hototogisu

- Type locality: 'Challenger' sta. 191, near Arrou islands: 5° 41' S., 134° 4' 30" E., 800 fms., and sta. 207, west of Luzon, Philippines: 12° 21' N., 122° 15' E., 700 fms.
- Distribution: Sagami bay and southwards, P6-P5, Japan Sea (Wakasa bay, J2-J1), EC5, East China Sea; South China Sea, Hong Kong, Beibu Gulf, Philippines, Gulf of Oman, Indian Ocean.
- Habitat: 20-500 m., sandy mud.
- Original genus: *Modiola*.

B124 *A. soyoeae* HABE, 1958-a

Yukizora-hototogisu (= Yume-migai)

- Type locality: 'Sōyō-Maru' sta. 439, off Gotō islands: 31° 52' 00" N., 128° 01' 00" E., 155 m., shelly sand.
- Distribution: western Sagami bay, P6-P5, EC5, East China Sea.
- Habitat: 50-200 m., sandy mud and shelly sand.

B125 *A. peasei* (NEWCOMB, 1870)

(= *A. arborescens* *auct. non* DILLWYN, 1817; *A. plumen* KURODA & HABE in KURODA *et al.*, 1971)

Hane-nuri-tsuya-hototogisu (= Maboroshi-gai)

- Type locality: outer Honolulu harbour, Hawaii; 12 fms.
- Distribution: Sagami bay and southwards, Kii peninsula, EC5, ECP4-ECP2, East China Sea, P2; Philippines, South China Sea, Indonesia, Red Sea, Hawaii.

- Habitat: 40-300 m., mud.

□ Genus *Idasola* IREDALE, 1915

Type species: *Idas argenteus* JEFFREYS, 1876 (mt.)  
(= *Idas* JEFFREYS, 1876 non MULSANT & VERRAUX, 1875)

B126 *I. japonica* HABE, 1976-a

Kizamiba-mayu-igai

- Type locality: off Esuzaki (cape), Kii peninsula, central Honshū; ± 150 m.
- Distribution: western Enshū-nada, Kumano-nada, Kii peninsula, East China Sea.
- Habitat: 100-550 m., attached to wood and whale bones.

□ Genus *Xenostrobus* WILSON, 1967

Type species: *Volsella inconstans* DUNKER, 1856 (o. d.)  
(= *Vignadula* KURODA & HABE in KURODA *et al.*, 1971)

B127 *X. atratus* (LISCHKE, 1871 in 1868-73)

(= *Modiola aterrima* DALL, 1871)

Kuro-guchi-gai

- Type locality: 'Bucht von Nagasaki' (Nagasaki bay, western Kyūshū).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, EC5, East China Sea; Yellow Sea, Korea, Bo-hai, Hong Kong, South China Sea.
- Habitat: intertidal on rocks in estuaries.
- Original genus: *Mytilus*.

Notes: See T. KIMURA (1996).

□ Genus *Linnoperna* ROCHEBRUNE, 1882

Type species: *Dreissena siamensis* MORELET, 1866 (o. d.)

B128 *L. fortunei kikuchii* HABE in KURODA & HABE, 1981

Kōroen-kawa-hibari-gai

- Type locality: Kōroen, Nishinomiya, Hyōgo prefecture (northwestern Osaka bay).
- Distribution: North Kyūshū, Japan sea (Hagi), Seto inland sea, Wakayama to Tōkyō bay.

□ Genus *Botula* MÖRCH, 1853 in 1852-3

Type species: *Mytilus fuscus* GMELIN, 1791 (s. d. DALL, BARTSCH & REHDER, 1938)

B129 *B. silicula* (LAMARCK, 1819 in 1815-22)

(= *Modiola cinnamomea* LAMARCK, 1819 non SCHREIBERS, 1793, nec LINK, 1807; *Botulopa silicula inflata* IREDALE, 1939; *Botula hawaiiensis* DALL, BARTSCH & REHDER, 1938; *B. laysana* DALL, BARTSCH & REHDER, 1938)

Nuri-makura

- Type locality: 'les mers de la Nouvelle Hollande' (Australian seas).

- Distribution: southern Kii peninsula, P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2; Philippines, South China Sea, Hainan, Australia, Red Sea to Hawaii.

- Habitat: intertidal to 200 m., boring in soft rocks, coral and shells.

- Original genus: *Modiola*.

Subfamily BATHYMODIOLINAE KENK & WILSON, 1985

□ Genus *Bathymodiolus* KENK & WILSON, 1985

Type species: *Bathymodiolus thermophilus* KENK & WILSON, 1985 (o. d.)

B130 *B. platifrons* HASHIMOTO & OKUTANI, 1994

Heito-shinkai-hibari-gai

- Type locality: 'Shinkai 2000' sta. 278, Okinoyama bank, Sagami bay, central Honshū: 34° 58.2' N., 139° 31.3' E., 1180 m.
- Distribution: Sagami bay, mid-Okinawa trough (Iheya ridge; Izena caldron).

- Habitat: attached by byssus to outcrops around thermal vents.

B131 *B. japonicus* HASHIMOTO & OKUTANI, 1994

Shinkai-hibari-gai

- Type locality: 'Shinkai 2000' sta. 428, Minami Ensei knoll, mid-Okinawa trough: 28° 23.4' N., 127° 38.5' E., 710 m.
- Distribution: Sagami bay (off Hatsushima; Okinoyama bank), type locality.
- Habitat: attached by byssus to outcrops around thermal vents.

B132 *B. aduloides* HASHIMOTO & OKUTANI, 1994

Kazuki-shinkai-hibari-gai

- Type locality: 'Shinkai 2000' sta. 683, Iheya ridge, mid-Okinawa trough: 27° 33.0' N., 126° 58.1' E., 1389 m.
- Distribution: Sagami bay (Okinoyama bank), mid-Okinawa trough (Minami Ensei knoll; Iheya ridge).
- Habitat: attached by byssus to outcrops in or close to thermal vents.

B133 *B. septemdiarium* HASHIMOTO & OKUTANI, 1994

Shichiyō-shinkai-hibari-gai

- Type locality: 'Shinkai 2000' sta. 627, Suiyo seamount off Ogasawara islands: 28° 34.3' N., 140° 38.6' E., 1371 m.
- Distribution: Ogasawara islands (Suiyo seamount; Mokuyo seamount).
- Habitat: in clear hydrothermal fluids on chimneys.

□ Genus *Benthomodiolus* DELL, 1987

Type species: *Benthomodiolus lignicola* DELL, 1987 (o. d.)

B134 *Benthomodiolus abyssicola* (KNUDSEN, 1970)

Watazoko-makura

- Type locality: 'Galathea' sta. 726, Gulf of Panama: 05° 49' N., 78° 52' W., 3670-3270 m.
- Distribution: off eastern Honshū (3100 m., by 'Sōyō-Maru'); worldwide in deep water.
- Habitat: 1500-3500 m., in mud on wood.
- Original genus: *Modiolus*.

Subfamily **CRENELLINAE GRAY, 1840**

□ Genus ***Crenella* BROWN, 1827**

Type species: *Mytilus decussatus* MONTAGU, 1808 (mt.)

B135 ***C. decussata* (MONTAGU, 1808 in 1803-08)**

(= *Arvella manchurica* SCARLATO, 1960)

Kizami-gai

- Type locality: 'in sand on the Scottish coast'.
- Distribution: northeastern Honshū (off Fukushima prefecture NEMOTO & AKIMOTO, 1990), Okhotsk Sea, OP; northern Kuril islands, Sakhalin, Arctic Ocean, northern Europe.
- Habitat: 10-30 m., sandy mud.
- Original genus: *Mytilus*.

B136 ***C. yokoyamai* NOMURA, 1932**

(= *C. divaricata* YOKOYAMA, 1922 non D'ORBIGNY, 1847; *C. delicatula* YOKOYAMA, 1926; *C. decussata laticostata* SCARLATO, 1960)

Chigo-kizami-gai (= Yokoyama-kizami-gai)

- Type locality: Shitō, Ichihara City, Chiba prefecture, central Honshū (fossil).
- Distribution: Sagami bay and northwards, P6-P10, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J4), OP, Kuril islands, Okhotsk Sea; Yellow Sea.
- Habitat: 20-200 m., fine sand.

□ Genus ***Gregariella* MONTEROSATO, 1883 in 1883-5**

Type species: *Modiolus sulcatus* RISSO, 1826 (o. d.); = *Mytilus opifex* SAY, 1825)

B137 ***G. coralliophaga* (GMELIN, 1791)**

(= *Modiola divaricata* PHILIPPI, 1847 non D'ORBIGNY, 1844)

Chijimi-tama-egai

- Type locality: 'in *Oceano indico et americano*' (Indian Ocean and ?Caribbean).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2, East China Sea; Philippines, Yellow Sea, South China Sea, Hainan, tropical western Pacific.
- Habitat: intertidal to 20 m., boring in coral, limestone and shells.
- Original genus: *Mytilus*.

B138 ***G. splendida* (DUNKER, 1856-b)**

(= *Modiola opifex* auct. non SAY, 1825)

Ō-chijimi-tama-egai

- Type locality: 'California'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2, East China Sea; Philippines.
- Habitat: intertidal to 20 m., boring in coral and limestone.
- Original genus: *Volsella*.

□ Genus ***Arvella* BARTSCH in SCARLATO, 1960**

Type species: *Mytilus faba* MÜLLER, 1776 (o. d.)

B139 ***A. japonica* (DALL, 1897-a)**

Ko-kizami-gai

- Type locality: 'north Japan'.
- Distribution: Hokkaidō and northwards, P10, OP, Kuril islands, Okhotsk Sea; Bering Sea to north America, Atlantic coast of USA (Massachusetts).
- Habitat: 10-50 m., sandy mud.
- Original genus: *Crenella*.

B140 ***A. casta* (A. ADAMS, 1862-b)**

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Crenella*.

B141 ***A. cornea* (A. ADAMS, 1862-b)**

- Type locality: Korea strait; 46 fms.
- Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Crenella*.

B142 ***A. crocea* (A. ADAMS, 1862-b)**

- Type locality: Tsushima, western Japan Sea; 30 fms.
- Distribution: 'Japan Sea coast at 34° N.' (KURODA & HABE, 1952-a).
- Original genus: *Crenella*.

□ Genus ***Vilasina* BARTSCH in SCARLATO, 1960**

Type species: *Vilasina pillula* SCARLATO, 1960 (o. d.)

B143 ***V. pillula* SCARLATO, 1960**

Tsuya-tama-egai (= Chibi-tamago-gai)

- Type locality: none designated.
- Distribution: Hokkaidō and northwards, P10, OP, Kuril islands, Okhotsk Sea.
- Habitat: 10-30 m., sandy mud.

B144 ***V. decorata* (A. ADAMS, 1862-b)**

Kazari-tsuya-tama-egai

- Type locality: Port Hamilton (Kyobunto island, near Gehaku lighthouse, southern Korea), 7 fms.
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, P9-P10; Korea.
- Habitat: subtidal to 20 m., sandy mud.
- Original genus: *Crenella*.

□ Genus ***Solamen* IREDALE, 1924**

Type species: *Solamen rex* IREDALE, 1924 (mt.); = *Crenella spectabilis* A. ADAMS, 1862-b)

**B145 *S. spectabilis* (A. ADAMS, 1862-b)**

(= *Crenella diaphana* DALL, 1907; *Solamen rex* IREDALE, 1924; *S. sibogai* PRASHAD, 1932; *S. saccosericata* HABE, 1951-a)

Kisa-gai-modoki

- Type locality: 'Mino-Sima' (Mishima, Japan Sea), 63 fms.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5 (Kashima-nada OKUTANI, 1962), Japan Sea (central Niigata prefecture, J3-J1), EC5, East China Sea; Yellow Sea.
- Habitat: 30-300 m., fine sand.
- Original genus: *Crenella*.

□ Genus ***Megacrenella* HABE & ITŌ, 1965-a**

Type species: *Crenella columbiana* DALL, 1897 (o. d.)

**B146 *M. columbiana* (DALL, 1897-a)**

(= *Crenella tamurai* HABE, 1955-a)

Hoso-suji-kizami-gai

- Type locality: Port Orchard, Puget sound, Washington state, USA.
- Distribution: Hokkaidō and northwards, P10, OP, Kuril islands, Okhotsk Sea; Bering Sea, northwestern USA to Mexico.
- Habitat: 20-100 m., sandy mud.
- Original genus: *Crenella*.

**Notes:** Yuminari-hototogisu *Modiola arcuatula* HANLEY, 1844-a (type locality: 'Singapore, at low water'; type species of the genus *Arcuatula* JOUSSEAUME in LAMY, 1919) was provisionally recorded from Japan ('Pacific side, 36° N?' KURODA & HABE, 1952-a), but the present authors have been unable to confirm distribution of this species in Japan.

Subfamily **MUSCULINAE IREDALE, 1939**

□ Genus ***Musculus* RÖDING, 1798**

Type species: *Mytilus discors* LINNAEUS, 1767 (s. d. IREDALE, 1915)

(= *Modiolarca* GRAY, 1843)

**B147 *M. discors* (LINNAEUS, 1767)**

(= *Mytilus discrepans* MONTAGU, 1803 in 1803-08)

Daikoku-tama-egai (= Fukure-tama-egai)

- Type locality: 'Norvegia, Islandia' (Norway and Iceland).
- Distribution: 'Japan' (MACGINITIE, 1959), Okhotsk Sea; Sakhalin and northwards, Primoriye region (Japan Sea coast of Russia), Bering Sea, Atlantic Ocean.
- Habitat: 10-50 m., sandy mud.
- Original genus: *Mytilus*.

**B148 *M. nexus* (GOULD, 1841)**

(= *Modiola nigra* auct. non GRAY, 1824)

Kuro-tama-egai

- Type locality: 'Provincetown Harbor' (Massachusetts, eastern USA).

- Distribution: Hokkaidō and northwards, P10, OP, Kuril islands, Okhotsk Sea; Bering Sea, Yellow Sea, Shandong province (China), Primoriye region (Japan Sea coast of Russia), Sakhalin, Arctic Ocean, eastern USA.

- Habitat: 10-230 m., soft mud.

- Original genus: *Modiola*.

**B149 *M. laevigatus* (GRAY, 1824)**

(= *Modiola substriatus* GRAY, 1824)

- Type locality: none designated; voyage was to the Arctic in search of the Northwest Passage over northern Canada.
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, P9-P10, OP, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J4), Okhotsk Sea; Bering Sea, Alaska

- Habitat: 10-500 m., mud.

- Original genus: *Modiola*.

**B150 *M. pusio* (A. ADAMS, 1862-b)**

(= *Mytilus marmorata* auct. non FORBES, 1838)

- Type locality: 'Mino-Sima' (Mishima, Japan Sea), 63 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5, East China Sea; Yellow Sea, China (Jiangsu).
- Habitat: intertidal to 20 m., soft mud; attached by byssus to rocks, gravel and weed.
- Original genus: *Modiolaria*.

**B151 *M. vernicosus* (MIDDENDORFF, 1849)**

Kogane-tama-egai

- Type locality: Okhotsk Sea.
- Distribution: Kuril islands (Etorofu) and northwards, OP, Okhotsk Sea; Bering Sea, Alaska.
- Habitat: 10-100 m., attached by byssus to weed.
- Original genus: *Modiolaria*.

**B152 *M. viridulus* (H. ADAMS, 1871-a)**

Inko-tama-egai

- Type locality: Red Sea.
- Distribution: western Japan Sea (northern Yamaguchi prefecture FUKUDA *et al.*, 1992, J1), Okinawa and southwards, ECP2, P2; Philippines, Indo-Pacific, Red Sea.
- Habitat: subtidal to 10 m., rocks.
- Original genus: *Crenella* (*Modiolaria*).

**B153 *M. seminudus* (DALL, 1897-a)**

Yowa-tama-egai

- Type locality: Markoffski bay, Unalaska; off Sannakah islands (Alaska).
- Distribution: northern Hokkaidō (Wakkanai), northern Japan Sea (J5-J6), Kuril islands, OP; Alaska.
- Habitat: intertidal to 20 m., mud.
- Original genus: *Modiolaria*.

**B154 *M. miranda* (E. A. SMITH, 1884)**

- Type locality: 'N. Dundas Straits' (Arnhem Land, northern

Australia).

- Distribution: East China Sea; South China Sea, Hainan, Indonesia, Australia (BERNARD *et al.*, 1993).
- Habitat: 10-70 m., mud.
- Original genus: *Modiolaria*.

**B155 *M. incurvatus* SCARLATO, 1960**

Sukaratto-tama-egai

- Type locality: none designated; data with figured material is: 'northern part of the Sea of Okhotsk, south of P'yagina Peninsula; 62 m., stones' (SCARLATO, 1960).
- Distribution: eastern Hokkaidō and northwards, OP, Okhotsk Sea.
- Habitat: subtidal to 20 m., mud.

**B156 *M. cupreus* (GOULD, 1861 in 1859-61)**

(= *Modiolaria quadrula* GOULD, 1861; *Musculus neglectus* KURODA, 1941)

Tama-egai

- Type locality: 'Kagosima Bay' (Kagoshima, southern Kyūshū).
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Sado island, J3-J1), EC5, ECP4-ECP2, P2; Philippines, South China Sea.
- Habitat: intertidal to 150 m., among ascidians on rocks and gravel.
- Original genus: *Modiolaria*.

**B157 *M. cumingiana* (REEVE, 1857 in 1843-65)**

(= *Mytilus coenobita* VAILLANT, 1865)

Ō-tama-egai

- Type locality: 'Moreton Bay, Australia'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Red Sea to western Pacific.
- Habitat: intertidal to 20 m., in ascidians.
- Original genus: *Modiola*.

**B158 *M. nanus* (DUNKER, 1856-b)**

Hina-tama-egai

- Type locality: 'Port Lincoln' (South Australia).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5; Philippines, Hong Kong, Hainan, Australia.
- Habitat: 20-50 m., sandy mud.
- Original genus: *Lanista*.

□ Genus ***Musculista* YAMAMOTO & HABE, 1958**

Type species: *Modiola senhousia* BENSON, 1842 (o. d.)

**B159 *Musculista senhousia* (BENSON, 1842)**

(= *Modiola bellardiana* TAPPARONE-CANEFRI, 1874; *Brachidontes aquarius* GRABAU & KING, 1928)

Hototogisu

- Type locality: Chusan islands, near the Yangtse river, China.
- Distribution: all areas from Primoriye region (Japan Sea coast of Russia) to South China Sea.

- Habitat: intertidal to 20 m., in eelgrass.
- Original genus: *Modiola*.

**B160 *Musculista japonica* (DUNKER, 1856-b)**

Yama-hototogisu-gai

- Type locality: '*in litore maris Japonici*' (shore of Japanese seas).
- Distribution: Bōsō peninsula and southwards, P7-P5, western Seto inland sea, Japan Sea (Noto peninsula, J2-J1), EC5, East China Sea, P2; Yellow Sea, Bo-hai, South China Sea, China, southeast Asia.
- Habitat: subtidal to 30 m., mud.
- Original genus: *Volsella*.

**B161 *Musculista perfragilis* (DUNKER, 1856-b)**

Noji-hototogisu-gai

- Type locality: '*Ad insulas Moluccenses*' (Moluccas (Maluku), Indonesia).
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea (Yanai bay KATŌ & FUKUDA, 1996) EC5, East China Sea; Taiwan, China, Indonesia, Red Sea.
- Habitat: intertidal to 30 m., mud.
- Original genus: *Volsella*.

Subfamily **DACRYDIINAE OCKELMANN, 1983**

□ Genus ***Dacrydium* TORELL, 1859**

Type species: *Mytilus vitrea* MÖLLER, 1842 (mt.)

**B162 *D. vitreum* (MÖLLER, 1842)**

Kita-no-hibari-gai

- Type locality: Greenland.
- Distribution: off eastern Honshū (68-3170 m.), Okhotsk Sea; northern Kuril islands, Sakhalin, Primoriye region (Japan Sea coast of Russia), Bering Sea, Arctic.
- Habitat: 50-150 m., mud.
- Original genus: *Mytilus*.

**B163 *D. pacificum* DALL, 1916**

- Type locality: 'Albatross' sta. 3604, Bering Sea; 1401 fms.
- Distribution: Izu islands (off Miyake island, 1080-1205 m. OKUTANI, 1968); Bering Sea.

**B164 *D. nipponicum* OKUTANI, 1975-a**

- Type locality: off Izu islands: 34° 22.2' N., 139° 58.0' E., 1080-1250 m.
- Distribution: off Hokkaidō, off eastern Honshū; Yellow Sea (BERNARD *et al.*, 1993).
- Habitat: 1000-1300 m., mud.

**B165 *D. minimum* OKUTANI & IZUMIDATE, 1992**

Mijin-hibari-gai

- Type locality: Yamamoto-tai bank, Japan Sea: 39° 45.77' N., 135° 00.00' E., 1200 m.
- Distribution: recorded only from type locality.

**B166 *D. zebra* HAYAMI & KASE, 1993**

Dōkutsu-hibari-gai

- Type locality: sediments in 'Devil's Palace' cave, Shimoji island (Miyako group, Okinawa prefecture).
- Distribution: Ryūkyū islands (Shimoji; Irabu; Ie); Philippines ('Balicasag cave' off Panglao, Bohol).
- Habitat: subtidal in caves.

Subfamily **LITHOPHAGINAE H. & A. ADAMS, 1857 in 1853-58**

□ Genus *Adipicola* **DAUTZENBERG, 1927**

Type species: *Modiolarca pelagica* FORBES in WOODWARD, 1854 (mt.)

B167 *A. longissima* (**THIELE & JAECKEL, 1931**)

Suehiro-mayu-igai

- Type locality: 'Valdivia' sta. 205, 'Nias-Nord-Kanal' off northwestern Sumatra, Indonesia: 01° 48.9' N., 96° 53' E.
- Distribution: Kii peninsula (off Esuzaki, 462-528 m.); Japan to Philippines, Sumatra (460-1500 m., attached to fruit of coconut or similar palm).
- Original genus: *Myrina*.

□ Genus *Terua* **DALL, BARTSCH & REHDER, 1938**

Type species: *Terua pacifica* DALL, BARTSCH & REHDER, 1938 (o. d.)

B168 *T. pacifica* **DALL, BARTSCH & REHDER, 1938**

(= *Myrina hiranoi* KURODA, 1933)

Hirano-makura-gai

- Type locality: off Oahu, Hawaii, 35 m.
- Distribution: Enshū-nada (off Aichi prefecture) and southwards, P6-P5, Japan Sea (Wakasa bay, J2-J1), EC5 (50-200 m., sandy mud); Hawaii (35-150 m.)

B169 *T. crypta* **DALL, BARTSCH & REHDER, 1938**

Naga-mayu-igai (= Hoso-hirano-makura)

- Type locality: Hawaii.
- Distribution: southern Wakayama prefecture and southwards to Tosa bay (100-200 m., sand); Hawaii (35-380 m.)

B170 *T. iwaotakii* (**HABE, 1958-e**)

Ito-mayu-igai

- Type locality: off Chikuzen-Okinoshima, Fukuoka prefecture, Kyūshū; 85 m.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and southwards, P7-P5, Ōsaka bay (OKAMURA & KOJIMA, 1984), Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5.
- Habitat: 20-200 m., on timbers and wooden debris.
- Original genus: *Adula*.

□ Genus *Lithophaga* **RÖDING, 1798**

Type species: *Lithophaga mytuloides* RÖDING, 1798 (mt); = *Mytilus lithophagus* LINNAEUS, 1780)

Subgenus *Lithophaga s. str.*

B171 *L. (L.) zitteliana* **DUNKER, 1883 in 1880-83**

Shigino-hashī (= Cha-iro-shigino-hashī)

- Type locality: '*Mare Japonicum mediterraneum*' (Seto inland sea).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hong Kong, Hainan.
- Habitat: subtidal to 20 m., boring in soft rocks, coral or limestone.

B172 *L. (L.) straminea* (**REEVE, 1857 in 1843-65**)

Wara-iro-shigino-hashī

- Type locality: 'West Indies' (erroneous).
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, East China Sea, P2.
- Habitat: subtidal to 30 m., boring in soft rocks, coral or limestone.
- Original genus: *Lithodomus*.

B173 *L. (L.) teres* (**PHILIPPI, 1846 in 1842-51**)

(= *Modiola malayana* PHILIPPI, 1847; *M. gracilis* PHILIPPI, 1847 non KLIPSTEIN, 1845; *Dactylus erythraensis* JOUSSEAUME, 1888)

Kuro-shigino-hashī

- Type locality: '*Oceanus Pacificus*'.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, South China Sea, Hong Kong, Red Sea to western Pacific.
- Habitat: subtidal to 20 m., boring in soft rocks, coral or limestone.
- Original genus: *Modiola*.

Subgenus *Leiosolenus* **CARPENTER, 1857-a**

Type species: *Leiosolenus spatiosus* CARPENTER, 1857 (mt.)

B174 *L. (Le.) curta* (**LISCHKE, 1874**)

Ishimate-gai

- Type locality: '*prope Jedo in madreporis*' (near Tōkyō, in coral).
- Distribution: Mutsu bay (Aomori prefecture) and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2, East China Sea; South China Sea, China, Hong Kong.
- Habitat: intertidal to 20 m., boring in soft rocks, coral, limestone, shells etc.
- Original genus: *Lithophagus*.

B175 *L. (Le.) obesa* (**PHILIPPI, 1847-c**)

Sekitori-ishimate

- Type locality: 'China?'
- Distribution: Amami islands and southwards, ECP3-ECP2; South China Sea, Hainan, Hong Kong.
- Habitat: intertidal to 20 m., boring in coral.
- Original genus: *Modiola*.

Subgenus *Labis* **DALL, 1916-b**

Type species: *Modiola attenuata* DESHAYES, 1836 (mt.)

**B176 *L. (La.) erimitica* KURODA & HABE in KURODA et al., 1971**

Kakure-ishimate

- Type locality: Sagami bay, central Honshū.
- Distribution: Bōsō peninsula and westwards, P6-P5, Seto inland sea, EC5, East China Sea.
- Habitat: intertidal to 20 m., boring in soft rocks.

Subgenus ***Stumpiella* SOOT-RYEN, 1955**

Type species: *Lithophagus calyculatus* CARPENTER, 1856 (mt.)

**B177 *L. (S.) lithura* PILSBRY, 1905**

Kikai-ishimate

- Type locality: Kikai island, off Amami-Ōshima (fossil).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2; South China Sea, Xisha island (off Hainan).
- Habitat: intertidal to 20 m., boring in soft rocks and shells.

**B178 *L. (S.) laevigata* (QUOY & GAIMARD, 1835)**

Migaki-ishimate

- Type locality: 'dans les Madrepores du Port Dorey, a la Nouvelle-Guinée' (in corals at Port Dorey, Papua New Guinea).
- Distribution: southern Shikoku to Okinawa (SHIMIZU, 1972), Amami islands and southwards, ECP3-ECP2, P2; Philippines, South China Sea, Indo-Pacific, Australia.
- Habitat: intertidal to 20 m., boring in rocks and coral.
- Original genus: *Lithodomus*.

Subgenus ***Diberus* DALL, 1898-a**

Type species: *Modiola plumula* HANLEY, 1843 (o. d.)

**B179 *L. (D.) malaccana* (REEVE, 1857)**

(= *Lithodomus subula* REEVE, 1857; *Lithophaga cavernosa* DUNKER, 1882; *L. reticulata* DUNKER, 1883 in 1880-83; *L. divaricalx* IREDALE, 1939)

Marakka-ishimate (= Suehiro-ishimate)

- Type locality: Malacca straits, Indonesia.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; South China Sea, Hainan, Hong Kong, Indo-Pacific, Indonesia.
- Habitat: intertidal to 20 m., boring in soft rocks and coral.
- Original genus: *Lithodomus*.

**B180 *L. (D.) canalifera* (HANLEY, 1844-a)**

Kongō-ishimate

- Type locality: 'Found in rocks, isle of Zebu' (Cebu, Philippines).
- Distribution: Amami islands and southwards, ECP3-ECP2, East China Sea; Taiwan, Hong Kong, Philippines.
- Habitat: intertidal to 20 m., boring in soft rocks and coral.
- Original genus: *Lithodomus*.

Subgenus ***Exodiberus* IREDALE, 1939**

Type species: *Lithophaga calcifer* IREDALE, 1939 (o. d.)

**B181 *L. (E.) lima* (LAMY, 1919-b)**

(= *Lithophaga nasuta* auct. non PHILIPPI, 1846)

Iwakawa-ishimate

- Type locality: 'Djibouti, Aden; vit dans la masse calcaire des polypiers' (Djibouti, Red Sea; in stone corals).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; South China Sea, Hong Kong, Red Sea.
- Habitat: intertidal to 20 m., boring in soft rocks and coral.
- Original genus: *Dactylus*.

Subgenus ***Myapalmula* IREDALE, 1939**

Type species: *Lithophaga dichroa* IREDALE, 1939 (o. d.)

**B182 *L. (M.) nasuta* (PHILIPPI, 1846 in 1842-51)**

Nan'yō-shigino-hashii

- Type locality: '*Oceanus Pacificus*'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, South China Sea, Hong Kong, Indo-Pacific.
- Habitat: intertidal to 20 m., boring in soft rocks, coral and shells.
- Original genus: *Modiola*.

□ Genus ***Adula* H. & A. ADAMS, 1857 in 1853-58**

Type species: *Mytilus soleniformis* D'ORBIGNY, 1846 (mt.)

**B183 *A. schmidti* (SCHRENCK, 1867)**

(= *Modiola californiensis* PHILIPPI, 1847 sensu KURODA, 1933; *Adula nipponica* HABE, 1955-a; *A. chosonica* HABE & ITŌ, 1965)

Mayu-igai (= Kita-no-mayu-igai; Chōsen-mayu-igai)

- Type locality: Okhotsk Sea.
- Distribution: central Honshū (Ibaraki prefecture) and northwards, P8-P10, Japan Sea (Toyama bay, J3-J5), OP, Kuril islands, Okhotsk Sea; Sakhalin.
- Habitat: intertidal, on roots of weed or boring in soft rocks.
- Original genus: *Modiola* (*Lithophagus*).

**B184 *A. falcatoides* HABE, 1955-a**

(= *A. falcata* sensu KINOSHITA, 1937 non GOULD, 1861)

Chijimi-mayu-igai

- Type locality: 'Volcano bay, Hokkaidō' (Uchiura bay, southeastern Hokkaidō).
- Distribution: Hokkaidō and northwards, P10, OP, Kuril islands.
- Habitat: intertidal to 50 m., boring in soft rocks.

□ Genus ***Urumella* HAYAMI & KASE, 1993**

Type species: *Urumella concava* HAYAMI & KASE, 1993 (o. d.)

**Notes:** placement of this genus in this subfamily is provisional.

**B185 *U. concava* HAYAMI & KASE, 1993**

Uruma-hibari-gai

- Type locality: sediments in 'L-arch' cave, Irabu island (Miyako group, Okinawa prefecture).
- Distribution: Ryūkyū islands (Shimoji; Irabu; Miyako group).
- Habitat: subtidal in caves.

Order **ARCOIDA STOLICZKA, 1871**

(= *FILIBRANCHIA* PELSENEER, 1889)

Superfamily **ARCOIDEA LAMARCK, 1809**

Family **ARCIDAE LAMARCK, 1809**

(Refs.: Noda, 1966)

Subfamily **ARCINAE LAMARCK, 1809**

(Refs.: Habe, 1953-g)

□ Genus ***Arca* LINNAEUS, 1758**

Type species: *Arca noae* LINNAEUS, 1758 (s. d. SCHMIDT, 1818 - ICZN op. 189)

**B186 *A. navicularis* BRUGUIÈRE, 1797 in 1791-1797**

(= *Arca linter* JONAS, 1845; *A. subquadrangulata* PHILIPPI, 1847)

Washi-no-ha (= Fuase-washi-no-ha)

- Type locality: 'Saint-Domingue' (Caribbean Sea; erroneous).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2, East China Sea; South China Sea, Hainan (China).
- Habitat: intertidal to 20 m., attached by byssus to rocks.

**B187 *A. ventricosa* LAMARCK, 1819 in 1815-22**

(= *Byssoarca truncata* SOWERBY, 1833; *A. zebra* REEVE, 1844 *non* SWAINSON, 1832; *A. mauia takii* HATAI, NIINO & KOTAKA, 1952)

Ō-taka-no-ha (= Hōrai-washi-no-ha)

- Type locality: 'les mers de l'Inde'.
- Distribution: Izu islands and southwards, P11, northern Ogasawara islands, Kii peninsula, P6-P5, ECP4-ECP2, P2; Philippines, Indo-Pacific, Red Sea, Australia.
- Habitat: intertidal to 20 m., attached by byssus to rocks and coral.

**B188 *A. avellana* LAMARCK, 1819 in 1815-19**

(= *A. retusa* LAMARCK, 1819; *Byssoarca maculata* SOWERBY, 1833; *A. ocellata* REEVE, 1844; *A. arabica* PHILIPPI, 1847; *A. cuneata* REEVE, 1844; *A. acuminata subnormalis* PILSBRY, 1895; *A. bicarinata* SOWERBY III, 1901)

Fune-gai (= Neji-asari; Kukuri-neji-asari)

- Type locality: 'les mers de la Nouvelle Hollande, à l'île S-Pierre-S.-François' (St. Francis islands, off Ceduna, South Australia).

- Distribution: Tsugaru peninsula and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea; South China Sea, Indo-Pacific, Australia.

- Habitat: intertidal to 80 m., attached by byssus to rocks.

**B189 *A. boucardi* JOUSSEAUME, 1894-c**

(= *A. kobeltiana* PILSBRY, 1904; *A. rectangularis* TOKUNAGA, 1906; *A. miyatensis* ŌYAMA, 1954; *A. miuraensis* NODA, 1966)

Koberuto-fune-gai

- Type locality: 'Mers du Japon' (Japanese seas).
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (J4-J1), EC5, ECP4-ECP2, P2, East China Sea; Korea, Philippines, Yellow Sea, South China Sea, China.
- Habitat: intertidal to 50 m., attached by byssus to rocks and stones.

□ Genus ***Barbatia* GRAY, 1842**

Type species: *Arca barbata* LINNAEUS, 1758 (s. d. GRAY, 1857)

Subgenus ***Barbatia* s. str.**

**B190 *B. (B.) signata* (DUNKER, 1868 in 1858-70)**

- Type locality: 'ignota' (unknown).
- Distribution: East China Sea; South China Sea, intertidal on rocks (BERNARD *et al.*, 1993).
- Original genus: *Arca*.

Subgenus ***Abarbatia* DALL, BARTSCH & REHDER, 1938**

Type species: *Barbatia oahua* DALL, BARTSCH & REHDER, 1938 (o. d.)

**B191 *B. (A.) decussata* (SOWERBY I, 1833-a)**

(= *Arca lima* REEVE, 1844; *A. stigmosa* DUNKER, 1853; *Barbatia oblonga* DUNKER, 1853; *B. petersi* DUNKER, 1871; *Byssoarca velata* SOWERBY, 1833)

Egai (= Ō-karigane-egai)

- Type locality: '*ad littora insularum Oceani Pacifici*. Found attached to Mother-of-pearl shells at Lord Hood's and Chain Islands' (Chain Island is now Annaa island, Tuamoto Archipelago; Lord Hood's island is probably Marutea, 21° 30' S., 135° 33' W.)

- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5; South China Sea, Taiwan, Indo-Pacific.

- Habitat: intertidal to 20 m., attached by byssus to rocks.

- Original genus: *Byssoarca*.

Subgenus ***Savignyarca* JOUSSEAUME, 1891**

Type species: *Savignyarca savignyarca* JOUSSEAUME, 1881 (o. d.)

**B192 *B. (S.) virescens* (REEVE, 1844)**

(= *Arca obtusa* REEVE, 1844 *non* KONINCK, 1842; *A. obliquata* WOOD, 1828 in 1818-28 *non* ZIETEN, 1833; *A.*



*obtusoides* NYST, 1848; *A. decurvata* LISCHKE, 1869; *A. obtusa duplicostata* GRABAU & KING, 1928)

Karigane-egai (= Ao-karigane-egai)

- Type locality: 'Catbalonga, island of Samar, Philippines (found under stones at low water)'.  
• Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Noto peninsula, J2-J1), EC5, East China Sea; South China Sea, China, Indo-Pacific.  
• Habitat: intertidal to 20 m., attached by byssus to rocks.  
• Original genus: *Arca*.

Subgenus *Barbatirus* IREDALE, 1939

Type species: *Barbatirus mimulus* IREDALE, 1939 (o. d.)

B193 *B. (B.) cometa* (REEVE, 1844 in 1843-65)

Tamaya-egai

- Type locality: 'Sorsogon, island of Luzon, Philippines'.  
• Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, South China Sea, Indian Ocean.  
• Habitat: intertidal to 20 m., attached by byssus to rocks.  
• Original genus: *Arca*.

Subgenus *Ustularca* IREDALE, 1939

Type species: *Ustularca cruciata renuta* IREDALE, 1939 (o. d.)

B194 *B. (U.) cruciata* (PHILIPPI, 1849 in 1842-51)

Kuro-mino-egai

- Type locality: '*Oceanus Indicus*' (Indian Ocean).  
• Distribution: western Kii peninsula, P5, Seto inland sea, EC5, ECP4-ECP2, P2.  
• Habitat: intertidal to 20 m., attached by byssus to rocks.  
• Original genus: *Arca*.

B195 *B. (U.) fusca* (BRUGUIÈRE, 1797 in 1791-1797)

(= *Arca amygdalumtortum* RÖDING, 1798; *A. bicolorata* DILLWYN, 1817; *Barbatia rodlatzi* DUNKER, 1866)

Beni-egai

- Type locality: 'sur les rochers qui bordent l'île Marosse, dans le fond de la baie d'Antongil a Madagascar' (Marosse island, Antongil Bay, northeastern Madagascar; on rocks).  
• Distribution: Kii peninsula and southwards, P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Indo-Pacific.  
• Habitat: intertidal to 20 m., attached by byssus to rocks.  
• Original genus: *Arca*.

B196 *B. (U.) stearnsii* (PILSBRY, 1895-a)

Hana-egai

- Type locality: Nemoto, Bōsō peninsula (Chiba prefecture, central Honshū) and Yokohama (western Tōkyō bay).  
• Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2; Philippines, South China Sea, southeast Asia.  
• Habitat: intertidal to 20 m., attached by byssus to gravel

and stones.

- Original genus: *Arca*.

B197 *B. (U.) hachijoensis* HATAI, NIINO & KOTAKA in NIINO, 1952

Ō-hama-egai

- Type locality: off Hachijō island, Izu islands; 115 m.  
• Distribution: off Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986), Sagami bay and southwards, Izu islands, P11, northern Ogasawara islands, P6-P5, EC5.  
• Habitat: 50-120 m., attached by byssus to rocks.

B198 *B. (U.) lacerata* (BRUGUIÈRE, 1789 in 1789-1816)

Ō-mino-gai

- Type locality: none designated.  
• Distribution: Amami islands and southwards, ECP3-ECP2, P2; South China Sea, tropical Indo-Pacific.  
• Habitat: subtidal to 20 m., attached by byssus to rocks.  
• Original genus: *Arca*.

B199 *B. (U.) aizoi* SAKURAI, 1969-a

Ryūgū-washi-no-ha

- Type locality: off Gotō islands, western Kyūshū; 30-50 fms.  
• Distribution: southwestern Shikoku (Okinoshima; Kashiwajima), western Kyūshū.  
• Habitat: 50-100 m., attached by byssus to rocks and coral.

B200 *B. (U.) tamikoae* SAKURAI, 1969-a

Otohime-hana-egai (= Tamiko-egai)

- Type locality: off Gotō islands, western Kyūshū; ± 50 fms.  
• Distribution: Izu islands and southwards, P6-P5, EC5, ECP4-ECP2.  
• Habitat: 50-100 m., attached by byssus to rocks, gravel and coral.

□ Genus *Barbarca* DALL, BARTSCH & REHDER, 1938

Type species: *Calloarca hua* DALL, BARTSCH & REHDER, 1938 (o. d.)

B201 *Barbarca tenella* (REEVE, 1844 in 1843-65)

(= *Barbatia mollis* DUNKER, 1867 non DESHAYES, 1853; *Calloarca hua* DALL, BARTSCH & REHDER, 1938; *Opularca tenella egenora* IREDALE, 1939)

Habutae-egai

- Type locality: 'Island of Burias, Philippines (found under stones at low water)'.  
• Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Red Sea to Hawaii.  
• Habitat: intertidal to 20 m., rubble and rocks fringing coral reefs.  
• Original genus: *Arca*.

□ Genus *Vitracar* IREDALE, 1939

Type species: *Vitracar laterosa* IREDALE, 1939 (o. d.)

**B202 *V. albida* SAKURAI & HABE, 1966**

Yuki-egai

- Type locality: Kakeroma island, Amami islands.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2, East China Sea.
- Habitat: intertidal to 50 m., rocks and gravel.

□ Genus *Acar* GRAY, 1857

Type species: *Arca gradata* BRODERIP & SOWERBY, 1829 (s. d. WOODRING, 1925)

**B203 *A. plicatum plicatum* (DILLWYN, 1817)**

(= *Arca irudina* LAMARCK, 1819; *A. donaciformis* REEVE, 1844; *A. maccoyi* WOODS, 1878; *Barbatia* (*Acar*) *reticulata* KURODA, 1930 non GMELIN, 1791; *B. numaensis* NODA, 1966)

Koshiro-gai

- Type locality: 'West Indies (Santo Domingo)' - erroneous.
- Distribution: Tsugaru peninsula and southwards, P9-P5, Japan Sea (northern Niigata prefecture, J3-J1), EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Indo-Pacific.
- Habitat: intertidal to 100 m., on rocks and coral.
- Original genus: *Arca*.

**B204 *A. plicatum congenita* E. A. SMITH, 1885-a**

Itoko-koshiro-gai

- Type locality: 'Challenger' sta. 210, off the west coast of Mindanao, Philippines: 07° 03' N., 121° 48' E., 82 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines.
- Habitat: 30-500 m., shell and gravel bottoms.

□ Genus *Trisidos* RÖDING, 1798

Type species: *Arca tortuosa* LINNAEUS, 1758 (o. d.)

**B205 *T. kiyonoi* (MAKIYAMA, 1931-b)**

Byōbu-gai

- Type locality: Kosakai, near Toyohashi City, Aichi prefecture (fossil).
- Distribution: Aichi prefecture (Mikawa bay), Seto inland sea, northern Kyūshū (Imari bay, Hakata bay), East China Sea, P2; South China Sea, Philippines, Australia, Indian Ocean.
- Habitat: subtidal to 20 m., sand and mud.
- Original genus: *Arca*.

**Note:** Kuroda (1930 in 1929-35: 27, figs. 29-30) figured a specimen as the 'holotype' of '*Arca kiyonoi* Makiyama' with a reference to part of a figure of *Parallelopedum tortuosa* in Makiyama 1914-16; there was no description or indication of which figure was intended, and the present authors thus consider Kuroda's *A. kiyonoi* a *nomen nudum*.

**B206 *T. tortuosa reevei* IREDALE, 1939**

Tamazusa-gai

- Type locality: 'Philippines'.
  - Distribution: P2; Taiwan and southwards, Philippines, South China Sea, Australia, Indian Ocean.
  - Habitat: intertidal to 50 m., sandy mud.
- Notes:** originally ssp. of *T. yongei*.

**B207 *T. semitorta* (LAMARCK, 1819 in 1815-22)**

Yagura-byōbu-gai

- Type locality: 'les mers de la Nouvelle Hollande, a la terre de Diemen' ('Van Diemen's Land'; northern Australia or Tasmania).
- Distribution: P2; Taiwan and southwards, Philippines, Hong Kong, Hainan (China), South China Sea, Australia.
- Habitat: intertidal to 30 m., sandy mud and gravel.
- Original genus: *Arca*.

□ Genus *Hawaiarca* DALL, BARTSCH & REHDER, 1938

Type species: *Hawaiarca rectangula* DALL, BARTSCH & REHDER, 1938 (o. d.)

**B208 *H. uwaensis* (YOKOYAMA, 1928)**

Otogi-no-washi-no-ha

- Type locality: Uwae, Miyazaki prefecture, southeastern Kyūshū (fossil).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), ECP2, EC5, East China Sea; South China Sea, China (Beibu Gulf).
- Habitat: 20-500 m., sand and gravel.
- Original genus: *Arca*.

**B209 *H. yamamotoi* (SAKURAI & HABE in HABE, 1961-a)**

Sango-egai

- Type locality: off Fukue, Gotō islands, Nagasaki prefecture; 50-100 m.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; South China Sea, Xisha island (off Hainan, China).
- Habitat: 50-150 m., rubble.
- Original genus: *Barbatia* (*Hawaiarca*).

□ Genus *Nipponarca* HABE, 1951-a

Type species: *Arca bistrigata* DUNKER, 1866 (o. d.)

**B210 *N. bistrigata* (DUNKER, 1866 in 1858-70)**

(= *Arca obtusa duplicostata sensu* KIRA, 1959; *Hawaiarca miikensis* NODA, 1966)

Hime-egai

- Type locality: '*in litore Indico prope Bombay...China*' (Bombay (Mumbai, India) and China).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2, East China Sea; South China Sea, Yellow Sea, Bo-hai to western Pacific.
- Habitat: intertidal to 50 m., sandy mud and gravel.

- Original genus: *Arca*.

□ Genus *Mimarcaria* IREDALE, 1939

Type species: *Mimarcaria saviolum* IREDALE, 1939 (o. d.)

B211 *M. matsumotoi* HABE, 1958-d

Chigo-washi-no-ha (= Matsumoto-hina-fune-gai)

- Type locality: off Kii-Nagashima, Mie prefecture (eastern Kii peninsula, central Honshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5; South China Sea, Beibu Gulf (China).
- Habitat: intertidal to 80 m., attached to rocks and stones.

**Notes:** Usu-beni-egai *Calloarca* (*Barbarca*) *nuttingi* DALL, BARTSCH & REHDER, 1938 (type locality: Laysan Island, Hawaii) is not known from Japan (HABE & OKUTANI, 1968).

□ Genus *Bentharca* VERRILL & BUSH, 1898

Type species: *Macrodon asperula* DALL, 1881 (o. d.)

B212 *B. asperula* (DALL, 1881)

(= *Arca profundicola* VERRILL, 1885; *A. pteroessa* E. A. SMITH, 1885; *A. endemica* DALL, 1908; *Bentharca hawaiiensis* DALL, BARTSCH & REHDER, 1939; *B. kauaiensis* DALL, BARTSCH & REHDER, 1939; *B. pterossa sensu* OKUTANI, 1962 err.)

Wadatsumi-fune-gai (= Maru-sode-kumasaka-yadori)

- Type locality: Gulf of Mexico.
- Distribution: Izu islands (off Aogashima OKUTANI, 1962; off Bayonnaise rock, 1390 m., off Torishima, 1660 m. OKUTANI, 1968) and southwards, P11, northern Ogasawara islands, P6-P5 (Tosa bay TSUCHIDA, 1994-b), ECP4-ECP2, P2; Indo-Pacific, western Atlantic.
- Habitat: 200-5000 m., attached to stones; also on arms of glass-rope sponge *Hyalomena sieboldii*.
- Original genus: *Macrodon*.

B213 *B. xenophorica* (KURODA, 1930)

Kumasaka-yadori

- Type locality: Kii peninsula (central Honshū) and Ariake Sea (western Kyūshū).
- Distribution: Suruga bay and southwards, P6-P5, EC5, East China Sea; South China Sea.
- Habitat: 50-500 m., rubble, attached to *Xenophora japonica* (no. G1139) and *X. pallidula* (G1140).
- Original genus: '*Bathyarca*'?

B214 *B. rubrotincta* KURODA & HABE in HABE, 1958-a

Akafu-kumasaka-yadori

- Type locality: 'Sōyō-Maru' sta. 322, Bungo strait (off western Shikoku): 110 m., gravel and shell bottom.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; South China Sea.

- Habitat: 100-200 m., attached to rocks and stones.

B215 *B. tenuis* HAYAMI & KASE, 1993

Usu-kumasaka-yadori

- Type locality: bottom sediments in 'Cross Hole' off Irabu island (Miyako group).
- Distribution: Ryūkyū islands (Ie; Shimoji; Irabu); off Panglao island, Philippines.
- Habitat: subtidal, in caves.

B216 *B. decorata* HAYAMI & KASE, 1993

Kazari-kumasaka-yadori

- Type locality: bottom sediments in 'Shō-dōkutsu' (cave) off Ie island (Okinawa).
- Distribution: Ryūkyū islands (Ie; Shimoji).
- Habitat: subtidal, in caves.

B217 *B. irregularis* HAYAMI & KASE, 1993

Hoso-kumasaka-yadori

- Type locality: bottom sediments in 'Shō-dōkutsu' (cave) off Ie island (Okinawa).
- Distribution: Ryūkyū islands (Ie; Shimoji; Irabu).
- Habitat: subtidal, in caves.

B218 *B. excavata* HAYAMI & KASE, 1993

Beni-kumasaka-yadori

- Type locality: bottom sediments in 'Cross Hole' off Irabu island (Miyako group).
- Distribution: Ryūkyū islands (Ie; Shimoji; Irabu).
- Habitat: subtidal, in caves.

□ Genus *Bathyarca* KOBELT, 1891

Type species: *Arca pectunculoides* SCACCHI, 1833 (o. d.)

B219 *Bath. anaclima* MELVILL & STANDEN, 1906

(= *B. kyurokusimana* NOMURA & HATAI, 1940)

Watazoko-egai

- Type locality: Persian Gulf.
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Indo-Pacific, Red Sea, Persian Gulf.
- Habitat: 50-500 m., fine sand.

B220 *Bath. nipponica* OKUTANI, 1962

Sagami-watazoko-egai

- Type locality: 'Sōyō-Maru' sta. 59, Sagami bay, central Honshū: 35° 05.8' N., 139° 31.5' E., 550 m.
- Distribution: recorded only from type locality.

B221 *Bath. japonica* HABE, 1977-b

(= *B. corpulenta* HABE, 1977-a non E. A. SMITH, 1885)

Daikoku-watazoko-egai

- Type locality: Kii peninsula, central Honshū.
- Distribution: Kii peninsula and southwards, P5, EC5, East China Sea, P2; South China Sea, Philippines, northern Australia to Indonesia, Hainan (China).
- Habitat: 50-2000 m., mud.

**B222 *Bath. orientalis* (THIELE & JAECKEL, 1931)**

(= *Arca sibogai* PRASHAD, 1932)

- Type locality: 'Valdivia' sta. 104, Agulhas bank off South Africa: 35° 16' S., 22° 26.7' E., 155 m.
- Distribution: 'Honshū to South China Sea; Indonesia, Philippines, Banda Sea' (BERNARD *et al.*, 1993), South Africa.
- Habitat: 400-800 m., mud.

□ Genus *Samacar* IREDALE, 1936

Type species: *Arca strabo* HEDLEY, 1915 (o. d.)

(= *Pseudogrammatodon* NOMURA & NIINO, 1940)

**B223 *S. strabo* (HEDLEY, 1915 in 1906-23)**

(= *Batharca* (*Pseudogrammatodon*) *pacifica* NOMURA, NIINO & JINBO, 1934)

Mino-egai

- Type locality: NE of Port Macquarie, New South Wales, Australia; 100 fms.
- Distribution: Bōsō peninsula and southwards, Izu islands, P11, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2; Philippines, Australia.
- Habitat: attached by byssus to rocks and stones.
- Original genus: *Arca*.

Subfamily ANADARINAE REINHART, 1935

□ Genus *Anadara* GRAY, 1847

Type species: *Arca antiquata* LINNAEUS, 1758 (o. d.)

**B224 *A. antiquata* (LINNAEUS, 1758)**

(= *Arca scapha* GMELIN, 1791; *Arca maculosa* REEVE, 1844; *Arca maculata* REEVE, 1844; *Arca crenata* REEVE, 1844 non ANTON, 1839; *Arca hanleyana* REEVE, 1844; *Arca lamarcki* PHILIPPI, 1845; *Anomalocardia transversalis* H. ADAMS, 1872; *Arca amaliae* KOBELT, 1888; *Anadara fennemai* MARTIN, 1910; *Anadara junghuhni* MARTIN, 1910)

Ryūkyū-sarubō

- Type locality: 'in *O. Americano*'.
- Distribution: Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; Philippines, South China Sea, Red Sea to Australia.
- Habitat: intertidal to 50 m., muddy sand.
- Original genus: *Arca*.

**B225 *A. ambigua* (REEVE, 1844 in 1843-65)**

- Type locality: none designated.
- Distribution: Yokohama and Nagasaki (KURODA, 1930; KURODA & HABE, 1952-a); Philippines.

□ Genus *Scapharca* GRAY, 1847

Type species: *Arca inaequalvis* BRUGUIÈRE, 1789 in 1789-1816 (o. d.)

**B226 *S. inaequalvis* (BRUGUIÈRE, 1789 in 1789-1816)**

(= *Arca rufescens* REEVE, 1844; *A. disparilis* REEVE, 1844; *A. hispida* PHILIPPI, 1849; *Scapharca penangena* JOUSSEAUME, 1893)

Kuichigai-sarubō-gai

- Type locality: 'sur toute la cote de Coromandel, & sur-tout a Tranquebar' (Coromandel coast, southern India, especially Tranquebar). Cited directly from Chemnitz in Martini & Chemnitz.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, East China Sea, P2; South China Sea, Philippines, Hainan (China), Indo-Pacific.
- Habitat: subtidal to 20 m., sand and mud.
- Original genus: *Arca*.

**B227 *S. broughtonii* (SCHRENCK, 1867)**

(= *Arca inflata* REEVE, 1844 non SCHRÖTER, 1802, nec BROCCHI, 1814, nec D'ORBIGNY, 1849; *A. reeveana* NYST, 1847; *A. tenuis* TOKUNAGA, 1906 non MONTAGU, 1808 in 1803-08)

Aka-gai

- Type locality: Hokkaidō.
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (J4-J1), EC5, East China Sea; Russia (southern Primoriye region ARZAMASTSEV, 1997), Korea, Yellow Sea, Taiwan, Bo-hai, Shandong province (China).
- Habitat: subtidal to 60 m., sand and mud.

**B228 *S. satowi* DUNKER, 1882**

(= *Arca nipponensis* PILSBRY, 1901)

Satō-gai (= Maru-sarubō)

- Type locality: 'ad Tokio (*Jedo*)' (from Tōkyō); 'In urbe Tokio...ad mercatum venit ut cibis magni aestimatus' ('sold by merchants in the city of Tōkyō and greatly prized as food').
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (Noto peninsula, J2-J1), EC5, East China Sea; Korea, South China Sea.
- Habitat: 10-30 m., sandy mud.

**B229 *S. binakayanensis binakayanensis* (FAUSTINO, 1932)**

Hon-kuma-sarubō

- Type locality: 'Binkayan, Cavite, Philippines' (south of Manila).
- Distribution: 'Kyūshū to Taiwan; South China Sea, Philippines, Thailand' (BERNARD *et al.*, 1993).
- Original genus: *Arca*.

**B230 *S. binakayanensis ursus* TANAKA, 1959**

Kuma-sarubō

- Type locality: Ariake inland sea, western Kyūshū.
- Distribution: Seto inland sea, western Kyūshū (Ariake inland sea; Ōmura bay).
- Habitat: 5-20 m., fine sandy mud.

B231 *S. sativa* BERNARD *et al.*, 1993

(= *Arca subcrenata* LISCHKE, 1869 *non* MICHELOTTI, 1861)

Sarubō-gai

- Type locality: Tōkyō bay.
- Distribution: northeastern Honshū (Ōtsuchi bay, Iwate prefecture) and southwards, P9-P5, Seto inland sea, Japan Sea (northern Niigata prefecture, J3-J1), western Kyūshū (Ariake inland sea; EC5), East China Sea; Yellow Sea, South China Sea, Bo-hai, China, western Pacific.
- Habitat: intertidal to 20 m., sandy mud.

B232 *S. kagoshimaensis* (TOKUNAGA, 1906)

(= *Arca cornea* auct. *non* REEVE, 1844; *Anadara amygdalum* PHILIPPI, 1847 *non* LINK, 1807; *Arca peitahoensis* GRABAU & KING, 1928)

Taiwan-sarubō

- Type locality: Kagoshima, southern Kyūshū.
- Distribution: southwestern Shikoku (Okinoshima), Kagoshima bay (Ibusuki), Tanegashima, East China Sea; Taiwan and southwards, South China Sea, southeast Asia.
- Habitat: subtidal to 20 m., sandy mud.

B233 *S. troscheli* (DUNKER, 1882)

Hime-aka-gai (= Shiroku-sarubō)

- Type locality: Japan: '...*sine certa quidem loci natalis indicatione*' ('but without a specific locality').
- Distribution: Mutsu bay (Aomori prefecture) and southwards, P9-P5, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5; South China Sea.
- Habitat: intertidal to 30 m., sandy mud.
- Original genus: *Scapharca*.

B234 *S. gubernaculum gubernaculum* (REEVE, 1844 in 1843-65)

Yakko-sarubō

- Type locality: 'Basey, island of Samar, Philippines (found in coarse sand and amongst shells at the depth of four fathoms).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, South China Sea, Hainan (China), southeast Asia, Australia.
- Habitat: 5-20 m., sandy mud.
- Original genus: *Arca*.

B235 *S. gubernaculum chalcantum* (REEVE, 1844 in 1843-65)

Rokushō-sarubō

- Type locality: 'San Nicolas, island of Zebu (Cebu), Philippines (found in sandy mud at the depth of six fathoms)'.  
(= *Arca chalcantum* REEVE, 1844 in 1843-65)
- Distribution: Okinawa (KURODA, 1960); Philippines.
- Original genus: *Arca*.

B236 *S. indica* (GMELIN, 1791)

(= *Arca japonica* REEVE, 1844)

Naga-sarubō

- Type locality: '*in Oceano indico*' (Indian Ocean).
- Distribution: 'Honshū to East China Sea; South China Sea' (BERNARD *et al.*, 1993).
- Habitat: intertidal to 5 m., mud & sand.
- Original genus: *Arca*.

□ Genus *Diluvarca* WOODRING, 1925

Type species: *Arca diluvii* LAMARCK, 1805

B237 *D. ferruginea* (REEVE, 1844 in 1843-65)

(= *Arca radiata* REEVE, 1844 *non* SCHRÖTER, 1802, *nec* SOWERBY, 1840; *Scapharca philippiana* NYST, 1848; *Arca tricenicosta* NYST, 1848; *A. pubigera* PHILIPPI, 1848)

Hagoromo-gai (= Fuirippi-sarubō)

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (central Niigata prefecture, J3-J1), EC5, ECP4-ECP2, East China Sea, P2; Philippines, South China Sea, Thailand, Malaysia, Indonesia.
- Habitat: 5-120 m., fine sandy mud.

□ Genus *Tosarca* NODA, 1966

Type species: *Anadara (Tosarca) tosaensis* NODA, 1965 (o. d.)

B238 *T. vellicata* (REEVE, 1844 in 1843-65)

(= *Arca fultoni* SOWERBY III, 1907; *Anadara exulta* IREDALE, 1939)

Iso-suji-sarubō

- Type locality: none designated.
- Distribution: Okinawa and southwards, ECP2, P2; Philippines, South China Sea, Indonesia, Red Sea, Australia.
- Habitat: subtidal to 30 m., sandy mud.
- Original genus: *Arca*.

□ Genus *Potiarca* IREDALE, 1939

Type species: *Arca pilula* REEVE, 1843 (o. d.)

B239 *P. pilula* (REEVE, 1843 in 1843-65)

(= *Arca sabinae* MORELET, 1889; *Anadara tayamai* NODA, 1966)

Tama-sarubō

- Type locality: 'Island of Burias, Philippines (found in sandy mud at the depth of six fathoms)'.  
(= *Arca pilula* REEVE, 1843 in 1843-65)
- Distribution: P2; Taiwan and southwards, South China Sea, Hainan (China), Philippines, Indian Ocean.
- Habitat: intertidal to 30 m., fine sandy mud.
- Original genus: *Arca*.

□ Genus *Imparilarca* IREDALE, 1929

Type species: *Imparilarca hubbardi* IREDALE, 1929 (o. d.)

**B240 *I. craticulata* (NYST, 1848)**

(= *Anomalocardia ehrenbergi* DUNKER, 1858)

Iraka-sarubō

- Type locality: Belgium (fossil).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; South China Sea.
- Habitat: intertidal to 20 m., fine sandy mud.
- Original genus: *Arca*.

□ Genus ***Kikaiarca* NODA, 1966**

Type species: *Arca kikaizimana* NOMURA & JINBO, 1934 (o. d.)

**B241 *K. kikaizimana* (NOMURA & JINBO, 1934-a)**

Kikai-sarubō

- Type locality: Kikai island, off Amami Ōshima (fossil).
- Distribution: Enshū-nada and southwards, P6-P5, western Kyūshū, Kikai island, Okinawa (off Miyako islands).
- Habitat: 10-90 m., fine to coarse sand and stones.
- Original genus: *Arca*.

□ Genus ***Tegillarca* IREDALE, 1939**

Type species: *Tegillarca granosa bessalis* IREDALE, 1939 (o. d.; = *Arca granosa* LINNAEUS, 1758)

**B242 *T. granosa* (LINNAEUS, 1758)**

(= *Arca aculeata* BRUGUIÈRE, 1789 in 1789-1816; *A. corbicula* GMELIN, 1791; *A. zanzibarensis* NYST, 1848; *A. oblonga* PHILIPPI, 1849 non GOLDFUSS, 1837; *Anadara bisenensis* SCHRENCK & REINHART, 1938; *Tegillarca granosa bessalis* IREDALE, 1939; *T. obesa* KOTAKA, 1953 non SOWERBY, 1833; *Anadara granosa kamakuraensis* NODA, 1966)

Hagai

- Type locality: 'in *O. Europae meridionalis*' (southern European seas).
- Distribution: Mikawa bay (Aichi prefecture), Ise bay, Seto inland sea (Mukaishima KOMATSU, 1988-a), southern Shikoku (Urado bay), western Kyūshū (Ōmura bay; Ariake inland sea); southeast Asia, Indo-western Pacific.
- Habitat: intertidal to 10 m., mud.
- Original genus: *Arca*.

□ Genus ***Mabellarca* IREDALE, 1939**

Type species: *Arca dautzenbergi* LAMY, 1907 (o. d.)

**B243 *M. dautzenbergi* (LAMY, 1907)**

(= *Arca dichotoma gratiosa* LYNGE, 1909; *Mabellarca dautzenbergi adjacens* IREDALE, 1939)

- Type locality: 'île Nou (Nouvelle Calédonie)' (Nou island, New Caledonia).
- Distribution: Okinawa (KURODA, 1960); South China Sea, Philippines, Thailand, Indonesia, Australia, Indo-Pacific (BERNARD *et al.*, 1993)
- Original genus: *Arca*.

**B244 *M. pulchella* (GMELIN, 1791)**

(= *Arca andoi* NOMURA, 1933)

- Type locality: none designated.
- Distribution: 'Honshū to East China Sea' (BERNARD *et al.*, 1993).
- Habitat: intertidal to 30 m., mud.
- Original genus: *Arca*.

Family **NOETIIDAE STEWART, 1930**

Subfamily **STRIARCIINAE MACNEIL, 1938**

□ Genus ***Striarca* CONRAD, 1862**

Type species: *Arca centenaria* SAY, 1824 (o. d.)

**B245 *S. symmetrica* (REEVE, 1844 in 1843-65)**

(= *S. oyamai* HABE, 1953)

Mimi-egai

- Type locality: 'Philippine Islands, Bay of Manila; Singapore (found under stones at low water)'.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (Sado island, J3-J1), EC5, East China Sea; Yellow Sea, Bo-hai, South China Sea, Hong Kong, Philippines, tropical Indo-Pacific.
- Habitat: intertidal to 10 m., attached by byssus to rocks and stones.
- Original genus: *Arca*.

□ Genus ***Arcopsis* KOENEN, 1885**

Type species: *Arca limopsis* KOENEN (s. d. REINHART, 1935)

**B246 *A. afra* (GMELIN, 1791)**

(= *Arca pisolina* LAMARCK, 1819; *Byssarca solida* SOWERBY, 1833; *A. sculptilis* REEVE, 1844; *A. zebuensis* REEVE, 1844; *A. afra solida* LAMY, 1907)

Yasagata-mimi-egai

- Type locality: '*ad Africae littus occidentale*' (west coast of Africa).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, South China Sea, Indo-Pacific.
- Habitat: intertidal to 15 m., rubble.
- Original genus: *Arca*.

**B247 *A. minabensis* HABE in KURODA & HABE, 1981**

Chobi-hige-mimi-egai

- Type locality: off Minabe, Wakayama prefecture (Kii peninsula); on shoals, 20-30 m.
- Distribution: Izu islands (Zenisu bank, 104-106 m.), Wakayama prefecture; South China Sea, Beibu Gulf (China), 20-45 m., sand & mud (BERNARD *et al.*, 1993).

Subfamily **NOETIINAE STEWART, 1930**

□ Genus ***Verilarca* IREDALE, 1939**

Type species: *Verilarca bivia* IREDALE, 1939 (o. d.)

**B248 *V. interplicata* (GRABAU & KING, 1928)**

(= *Arca yokoyamai* NOMURA, 1933)

Yokoyama-mimi-egai

- Type locality: 'Peitaiho' (Hopeh province, southwestern Liao-tung Gulf, China; from book title).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (central Niigata prefecture, J3-J1), EC5, ECP4-ECP2, P2, East China Sea; Yellow Sea, Korea.
- Habitat: intertidal to 120 m., fine sandy mud.
- Original genus: *Arca*.

□ Genus *Estellacar* IREDALE, 1939

Type species: *Estellacar saga* IREDALE, 1939 (o. d.)

B249 *E. olivacea* (REEVE, 1844 in 1843-65)

Sasage-mimi-egai (= Sasage-egai)

- Type locality: 'San Nicolas, island of Zebu (found in sandy mud at the depth of four fathoms)' (Cebu, Philippines).
- Distribution: Tōkyō bay, Seto inland sea, western Kyūshū (Ariake inland sea), East China Sea; Korea, Yellow Sea, Bo-hai, Taiwan, Philippines, Shandong province (China).
- Habitat: intertidal to 30 m., sandy mud in bays.
- Original genus: *Arca*.

□ Genus *Spinearca* IREDALE, 1939

Type species: *Spinearca deliciosa* IREDALE, 1939 (o. d.)

B250 *S. fausta* (HABE, 1951-a)

Moeshima-mimi-egai

- Type locality: Moeshima, Kagoshima bay (fossil).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, East China Sea.
- Habitat: 30-150 m., coarse sand and stones.

□ Genus *Didimacar* IREDALE, 1939

Type species: *Didimacar repenta* IREDALE, 1939 (o. d.)

B251 *D. tenebrica* (REEVE, 1844 in 1843-65)

(= *Arca nigra* LAMY, 1907; *A. decussata* YOKOYAMA, 1920 non SOWERBY, 1833; *Barbatia koshibensis* HATAI & NISHIYAMA, 1952)

Maru-mimi-egai

- Type locality: 'Basey, island of Samar, Philippines (found under stones at low water)'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Yellow Sea.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Arca*.

B252 *D. soyoae* (HABE, 1958-a)

Sōyō-mimi-egai

- Type locality: Sagami bay, central Honshū; 200 m.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-

J1), EC5; Yellow Sea, Bo-hai.

- Habitat: 40-250 m., coarse sand and stones.
- Original genus: *Striarca* (*Spinearca*).

Family PARALLELODONTIDAE DALL, 1898-a

Subfamily GRAMMATODONTINAE BRANSON, 1942

(= CUCULLARINAE HABE, 1977)

□ Genus *Porterius* CLARK, 1925

Type species: *Barbatia andersoni* VAN WINKLE, 1918 (o. d.)

B253 *P. dalli* (E. A. SMITH, 1885-a)

(= *Parallelodon obliquatus* YOKOYAMA, 1920 non WOOD, 1828 in 1818-28; *Cucullaria orientalis* YOKOYAMA, 1922; *Parallelodon chihliensis* CHAO, 1928)

Shikoro-egai

- Type locality: 'Challenger' sta. 233a, off Kobe, eastern Seto inland sea: 50 fms.
- Distribution: southern Hokkaidō and southwards, P10-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5; Korea, Yellow Sea, Bering Sea.
- Habitat: subtidal to 300 m., attached by byssus to rocks and stones.
- Original genus: *Arca* (*Macrodon*).

Family CUCULLAEIDAE STEWART, 1930

□ Genus *Cucullaea* LAMARCK, 1801

Type species: *Cucullaea auriculifera* LAMARCK, 1801 (= *Arca labiata* SOLANDER, 1786)

B254 *C. labiata granulosa* JONAS, 1846

Nunome-akagai

- Type locality: 'China Sea'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5; Korea, Yellow Sea, China.
- Habitat: 15-20 m., sandy mud.

Superfamily LIMOPSOIDEA DALL, 1895

Family LIMOPSIDAE DALL, 1895

(Refs.: Habe, 1953-g)

□ Genus *Limopsis* SASSI, 1827

Type species: *Arca aurita* BROCCCHI, 1814 (o. d.)

B255 *L. belcheri* (ADAMS & REEVE, 1850 in 1848-50)

(= *L. tokaiensis* YOKOYAMA, 1910; *L. tokaiensis elongata* YOKOYAMA, 1910; *L. tajimae* SOWERBY III, 1914; *L. uwadokoi* ŌYAMA, 1951-a; *L. tazimae* (*sic*) *emphatica* KIRA, 1959)

Ō-shirasuna-gai

- Type locality: Cape of Good Hope, South Africa; 120 fms.
- Distribution: Tsugaru strait (northern Honshū) and southwards, Iwate prefecture, P10-P5 (Kashima-nada OKUTANI, 1962; Sagami bay OKUTANI, 1968), Japan

Sea (J4-J1), EC5, East China Sea; Korea, Indo-Pacific, Indian Ocean.

- Habitat: 100-800 m., mud.
- Original genus: *Pectunculus*.

**B256 *L. obliqua* A. ADAMS, 1863-g**

Naname-shirasuna-gai

- Type locality: 'Uraga' (Uraga, eastern Miura peninsula, mouth of Tōkyō bay); 21 fms.
- Distribution: Bōsō peninsula and westwards, P7-P5 (Sagami bay OKUTANI, 1962; Suruga bay OKUTANI, 1966), EC5.
- Habitat: 100-300 m., sandy mud.

**B257 *L. crassula* HABE, 1953**

Kata-shirasuna-gai

- Type locality: 'Sōyō-Maru' sta. 646, off Tsugaru peninsula, northern Honshū: 41° 13' 00" N., 140° 12' 45" E., 123 m., shelly sand.
- Distribution: Japan Sea (off Aomori prefecture and southwards; off Sado island; off Fukui prefecture).
- Habitat: 100-170 m., sand and shelly sand.

**B258 *L. multistriata* (FORSKÅL, 1775)**

(= *Arca striata* GMELIN, 1791 non REEVE, 1844; *Pectunculus cancellatus* REEVE, 1843 non

MICHELOTTI, 1839; *Limopsis philippi* A. ADAMS, 1863-g; *L. woodwardi* A. ADAMS, 1863-g)

- Distribution: 'Honshū to East China Sea; Philippines, Indo-Pacific to Red Sea' (BERNARD *et al.*, 1993).
- Habitat: 20-60 m., mud.

□ Genus *Empleconia* DALL, 1908-c

Type species: *Limopsis vaginata* DALL, 1891 (o. d.)

**B259 *E. cumingi* (A. ADAMS, 1863-g)**

(= *Limopsis aureolata* YOKOYAMA, 1922)

- Type locality: 'Gotto' (Gotō islands, off western Kyūshū), 48 fms., and 'Santanomisaki' (Cape Sata, Kagoshima prefecture, southern Kyūshū), 55 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5.
- Habitat: 30-300 m., sandy mud.
- Original genus: *Limopsis*.

□ Genus *Crenulilimopsis* KURODA & HABE in KURODA *et al.*, 1971

Type species: *Limopsis crenata* A. ADAMS, 1863 (o. d.)

**B260 *C. crenata* (A. ADAMS, 1863-g)**

(= *Limopsis oblonga* A. ADAMS, 1860-c non SOWERBY I, 1824; *L. tumidula* THIELE & JAECKEL, 1931)

Nami-jiwa-shirasuna-gai

- Type locality: 'Uraga' (Uraga, eastern Miura peninsula, mouth of Tōkyō bay), 21 fms., and 'Satanomosaki' (Cape Sata, Kagoshima prefecture, southern Kyūshū), 55 fms.

- Distribution: Tsugaru strait and southwards, P10-P5 (Izu islands OKUTANI, 1962; 1966; 1968), Kii peninsula (TSUCHIDA, 1985-b), Japan Sea (off Yamaguchi prefecture TSUCHIDA & HORI, 1996; central Niigata prefecture, J3-J1), EC5, East China Sea; Philippines, China.
- Habitat: 20-200 m., fine sandy mud.
- Original genus: *Limopsis*.

□ Genus *Oblimopa* IREDALE, 1939

Type species: *Oblimopa macgillivrayi actaviva* IREDALE, 1939 (o. d.)

**B261 *O. japonica* (A. ADAMS, 1863-g)**

(= *Limopsis forskalii* A. ADAMS, 1863-g; *L. woodwardi* DUNKER, 1882 non A. ADAMS, 1863-g; *L. auritoides* YOKOYAMA, 1920; *O. soyoae* HABE, 1953-d) Shirasuna-gai (= Sōyō-shirasuna-gai)

- Type locality: 'Kuro-Sima' (probably Kuroshima, Kagoshima prefecture, southern Kyūshū), 57 fms., and 'Kiusy' (Kyūshū), 26 fms.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (Sado island, J3-J1), EC5, East China Sea, P2; China, Philippines.
- Habitat: 10-400 m., sandy mud.
- Original genus: *Limopsis*.

□ Genus *Nipponolimopsis* HABE, 1951-a

Type species: *Limopsis nipponica* YOKOYAMA, 1922 (o. d.); = *Cyrilla decussata* A. ADAMS, 1862-c)

**B262 *N. decussata* (A. ADAMS, 1862-c)**

(= *Limopsis nipponica* YOKOYAMA, 1922; *L. kinoshitai* KURODA, 1930; *L. hilgendorfi* THIELE, 1931)

Mame-shirasuna-gai

- Type locality: 'Gotto Islands' (Gotō islands, western Kyūshū); 48 fms.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (central Niigata prefecture, J3-J1), EC5, East China Sea.
- Habitat: 40-400 m., sandy mud.
- Original genus: *Cyrilla*.

**B263 *N. azumana* (YOKOYAMA, 1910)**

(= *Limopsis truncata* YOKOYAMA, 1910)

Maru-shirasuna-gai

- Type locality: Koshiha, Kanazawa-ku, Yokohama City (fossil).
- Distribution: Sagami bay and westwards, P6-P5, Kii peninsula.
- Habitat: 100-250 m., sand.
- Original genus: *Limopsis*.

Family **GLYCYRIMERIDIDAE** NEWTON, 1916

Subfamily **GLYCYRIMERIDINAE** NEWTON, 1916

□ Genus *Glycymeris* DA COSTA, 1778

Type species: *Arca orbicularis* DA COSTA, 1778 (by



tautonymy; = *Arca glycymeris* LINNAEUS, 1758)

Subgenus *Glycymeris s. str.*

**B264 *G. (G.) aspersa* (ADAMS & REEVE, 1850 in 1848-50)**

(= *Pectunculus vestitus* DUNKER, 1877; *P. fulguratus* DUNKER, 1877)

Tamaki-gai (= Monzuri; Todoroki-gai)

- Type locality: Sulu archipelago, Philippines.
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea, South China Sea, Gulf of Tonkin.
- Habitat: 3-30 m., sand.
- Original genus: *Pectunculus*.

**B265 *G. (G.) imperialis* KURODA, 1934-a**

Mitomaki-gai

- Type locality: off Hayama, Sagami bay, central Honshū; 36-54 m., fine sand.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, Sagami bay, Suruga bay, Kii peninsula.
- Habitat: 5-60 m., fine sand.

**B266 *G. (G.) albolineata* (LISCHKE, 1872 in 1868-73)**

Benkei-gai

- Type locality: 'Bucht von Jedo und zwar von Jokohama bis hinaus zur Insel Eno-Sima' (Tōkyō bay, specifically from Yokohama to Enoshima).
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea; southern Korea, Taiwan.
- Habitat: subtidal to 50 m., sand and sandy mud.
- Original genus: *Pectunculus*.

**B267 *G. (G.) rotunda* (DUNKER, 1882)**

(= *Pectunculus nipponicus* YOKOYAMA, 1920; *P. yamakawai* YOKOYAMA, 1922)

Beni-guri

- Type locality: '*Sinus Jedoensis*' (Tōkyō bay).
- Distribution: Tsugaru strait and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea.
- Habitat: 30-300 m., fine sand.
- Original genus: *Pectunculus*.

**B268 *G. (G.) yessoensis* (SOWERBY III, 1889-b)**

Ezo-tamaki

- Type locality: 'Yesso' (Hokkaidō).
- Distribution: Bōsō peninsula and northwards, P8-P10, Japan Sea (Tango peninsula, J2-J4), Kuril islands; northeastern Korea, Yellow Sea, Primoriye region (Japan Sea coast of Russia), Kamchatka.
- Habitat: subtidal to 40 m., sand.
- Original genus: *Pectunculus*.

**B269 *G. (G.) spurca* REEVE, 1843 in 1843-65**

(= *G. shutoi* MATSUKUMA, 1981)

- Type locality: 'Bay of San Carlos (found in coarse sand at the depth of sixteen fathoms)' (Philippines).

- Distribution: Amami Ōshima and southwards, ECP3-ECP2, P2, East China Sea; Philippines, South China Sea.

- Habitat: subtidal to 20 m., sand.

- Original genus: *Pectunculus*.

**B270 *G. (G.) habeii* MATSUKUMA, 1984**

Kinu-suji-ko-gitsune-gai

- Type locality: Muroto City, Cape Muroto, southeastern Shikoku.

- Distribution: southern Shikoku, Okinawa.

- Habitat: subtidal.

Subgenus *Velutuceta* IREDALE, 1931

Type species: *Glycymeris glammeus* REEVE, 1843 (o. d.)

**B271 *G. (V.) reevei* (MAYER, 1868)**

(= *Pectunculus angulatus auct. non* LAMARCK, 1819;

*Axinacea hanleyi* ANGAS, 1879; *Velutuceta impasta*

IREDALE, 1939; *V. cotinga* IREDALE, 1939)

Somewake-guri

- Type locality: Catabolonga, Samar island, Philippines; 10-15 m., coarse sand and stones.

- Distribution: southern Shikoku and southwards, P5, southern Kyūshū, ECP4-ECP2, P2; Philippines, South China Sea, New Caledonia, tropical Pacific.

- Habitat: subtidal to 20 m., sand.

□ Genus *Tucetilla* IREDALE, 1939

Type species: *Glycymeris capricornea* HEDLEY, 1906 (o. d.;

= *Pectunculus crebriliratus* SOWERBY III, 1889)

**B272 *T. crebriliratus* (SOWERBY III, 1889-a)**

(= *Glycymeris capricornea* HEDLEY, 1906; *Pectunculus*

*setiger* ODHNER, 1917; *P. mertoni* BÖTTGER, 1918; *G.*

*amamiensis* KURODA, 1930; *Tucetilla capricornea*

*intervenens* IREDALE, 1939)

Yasurime-tamaki

- Type locality: 'Moreton Bay, Australia'.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, Australia.
- Habitat: subtidal to 50 m., sand.
- Original genus: *Pectunculus*.

**B273 *T. pilsbryi* (YOKOYAMA, 1920)**

Birōdo-tamaki

- Type locality: Shimo-miyata, Miura City, Kanagawa prefecture (near Tōkyō) (fossil).

- Distribution: Tsugaru strait (northern Honshū) and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2, East China Sea.

- Habitat: 30-600 m., fine sand or shell bottom.

- Original genus: *Pectunculus*.

**B274 *T. tenuicostata* (REEVE, 1843 in 1843-65)**

- Type locality: 'Australia'.
- Distribution: 'East China Sea; Taiwan, Philippines, Australia' (BERNARD *et al.*, 1993).
- Original genus: *Pectunculus*.

□ Genus *Tucetonella* **HABE, 1961-a**

Type species: *Tucetona* (*Tucetonella*) *planicostata* HABE, 1961 (o. d.; = *Pectunculus mundus* SOWERBY III, 1903)

**B275 *Tucetonella munda* (SOWERBY III, 1903)**

( = *Tucetona shinkurosensis* HATAI, NIINO & KOTAKA in NIINO, 1952; *T. planicostata* HABE, 1961)

Ko-gitsune-gai ( = Hira-une-hime-tamaki)

- Type locality: Hirado island, Nagasaki prefecture.
- Distribution: Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986) and southwards, P7-P5, western Kyūshū (Gotō islands KURODA & HABE, 1981; EC5); southern Korea.
- Habitat: intertidal to 120 m., sand.
- Original genus: *Pectunculus*.

**B276 *Tucetonella hanzawai* (NOMURA & JINBO, 1934)**

- Type locality: Kami-katetsu, Kikai island (Amami islands).
- Distribution: Izu islands and southwards, western Kyūshū, P6-P5, EC5, ECP4-ECP2, P2, East China Sea.
- Habitat: 20-50 m., fine sand.
- Original genus: *Glycymeris*.

□ Genus *Tucetona* **IREDALE, 1931**

Type species: *Pectunculus flabellatus* TENISON-WOODS, 1878 (o. d.)

**B277 *T. auriflua* (REEVE, 1843 in 1843-65)**

Uchiwa-gai

- Type locality: 'Island of Capul, Philippines (found in coral sand upon the reefs)'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indonesia, South China Sea.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Pectunculus*.

**B278 *T. nodosa* (REEVE, 1843 in 1843-65)**

Fushi-uchiwa

- Type locality: 'Ceylon' (Sri Lanka).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Pectunculus*.

**B279 *T. amboinensis* (GMELIN, 1791)**

( = *Arca pectunculus auct. non* LINNAEUS, 1758; *Pectunculus pectiniiformis auct. non* LAMARCK, 1819, *nec* VOIGT in CUVIER, 1834; *Tucetona amboinensis extra* IREDALE, 1939; *Glycymeris subpectiniiformis* NOMURA & JINBO, 1934)

Kumoe-uchiwa-gai

- Type locality: '*ad Amboinae littora*' (coast of Ambon island, Moluccas (Maluku), Indonesia).
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, China, South China Sea, Indonesia, Australia to Red Sea.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Cardium*.

**B280 *T. hoylei* (MELVILL & STANDEN, 1899-a)**

Hoiru-uchiwa-gai

- Type locality: Warrior Island and Boydong Cays, Torres Straits, northern Australia.
- Distribution: Okinawa prefecture and southwards, P2; Philippines, Australia.
- Original genus: *Pectunculus*.

Subfamily **MELAXINAEINAE HABE, 1977**

□ Genus *Melaxinaea* **IREDALE, 1930**

Type species: *Melaxinea labyrinthica* IREDALE, 1930 (o. d.)

**B281 *M. clarki* (NICOL, 1951)**

( = *Glycymeris pectinata* NOMURA & JINBO, 1934 *non* LAMARCK, 1819)

Birō-uchiwa

- Type locality: 'between Bantayan island and N. W. end of Cebu and Labuang islands (Philippines); 32-80 fathoms'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2, Philippines; South China Sea, Beibu Gulf, Australia.
- Habitat: intertidal to 20 m., sand and mud.
- Original genus: *Axinactis* (*Melaxinea*).

**B282 *M. montrouzieri* (ANGAS, 1872)**

( = *Glycymeris dautzenbergi* PRASHAD, 1932 *non* GREGORIO, 1892; *M. prashadi* NICOL, 1951)

Shuro-uchiwa

- Type locality: 'New Caledonia'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, South China Sea, Beibu Gulf, Indonesia.
- Habitat: 5-40 m., sand and mud.
- Original genus: *Pectunculus*.

**B283 *M. vitrea* (LAMARCK, 1819 in 1815-22)**

( = *Pectunculus novaguineensis* ANGAS, 1879; *P. angasi* CROSSE, 1880; *M. labyrinthica* IREDALE, 1930; *M. litoralis* IREDALE, 1931)

Oni-no-uchiwa

- Type locality: 'les mers australes?' (southern seas?).
- Distribution: P2; Taiwan and southwards, South China Sea, Indonesia.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Pectunculus*.

Family **PHILOBRYIDAE BERNARD, 1897**

□ Genus *Cosa* **FINLAY, 1926**

Type species: *Hochstetteria costata* BERNARD, 1896 (o. d.)

B284 *C. waikikia* (**DALL, BARTSCH & REHDER, 1938**)

Shirasuna-gai-modoki

- Type locality: off Waikiki, Oahu, Hawaii; 25-50 fms.
- Distribution: northern Kyūshū (Fukuma, Fukuoka prefecture); Ryūkyū islands (Shimoji; Irabu; Ie HAYAMI & KASE, 1993); Hawaii.
- Habitat: subtidal, in caves.
- Original genus: *Limopsis*.

B285 *C. kinjoi* **HAYAMI & KASE, 1993**

Kinjō-shirasuna-gai-modoki

- Type locality: on wall of 'Coral Hole' cave, Shimoji island (Miyako group, Okinawa).
- Distribution: Ryūkyū islands (Ie; Shimoji; Irabu HAYAMI & KASE, 1993); Philippines (Balicasag cave off Panglao, Bohol); Palau (Chandelier cave, near Koror).
- Habitat: subtidal in caves.

B286 *C. uchimae* **HAYAMI & KASE, 1993**

Uchima-shirasuna-gai-modoki

- Type locality: sediments in Shō-dōkutsu cave, Ie island (Okinawa).
- Distribution: recorded only from type locality.

□ Genus *Cratis* **HEDLEY, 1915**

Type species: *Cratis progressa* HEDLEY, 1915 (o. d.)

B287 *C. kanekoi* **HAYAMI & KASE, 1993**

Kaneko-shirasuna-gai-modoki

- Type locality: sediments in Devil's palace cave, Shimoji island, Miyako group (Okinawa).
- Distribution: Ryūkyū islands (Shimoji; Erabu).
- Habitat: subtidal in caves.

B288 *C. ohashii* **HAYAMI & KASE, 1993**

Ōhashi-shirasuna-gai-modoki

- Type locality: sediments in Shō-dōkutsu cave, Ie island (Okinawa).
- Distribution: Ryūkyū islands (Ie; Shimoji), Honshū (Kumomi, Izu peninsula).
- Habitat: subtidal in caves.

Order **PTERIOIDA NEWELL, 1965**

Superfamily **PTERIOIDEA GRAY, 1847**

Family **PTERIIDAE GRAY, 1847**

□ Genus *Pteria* **SCOPOLI, 1777**

Type species: *Mytilus hirundo* LINNAEUS, 1758 (= *Austropteria* IREDALE, 1931)

B289 *P. breviaalata* (**DUNKER, 1872**)

Uguisu-gai

- Type locality: Japan.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hong Kong, Hainan, southeast Asia, southern central Pacific.
- Habitat: intertidal to 20 m., symbiotic with gorgonians.
- Original genus: *Avicula*.

B290 *P. chinensis* (**LEACH, 1814 in 1814-17**)

(= *Avicula iridescens* REEVE, 1847; *A. trochilus* REEVE, 1857; *A. peasei* DUNKER, 1872)

Tsubame-gai

- Type locality: China.
- Distribution: Mie prefecture (Kii-Nagashima, 10-20 m. MATSUMOTO, 1979) and southwards, P6-P5, EC5, ECP4-ECP2, P2, East China Sea; South China Sea, Philippines, Hainan, Hong Kong, China, Indo-western Pacific.
- Habitat: 10-20 m., symbiotic with gorgonians.
- Original genus: *Avicula*.

B291 *P. avicular* (**HOLTEN, 1802**)

(= *Avicula crocea* LAMARCK, 1819)

Kinshi-uguisu

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Indo-Pacific.
- Habitat: 10-20 m., symbiotic with gorgonians.
- Original genus: *Mytilus*.

B292 *P. loveni* (**DUNKER, 1872**)

Fukura-suzume

- Type locality: Japan.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, East China Sea; South China Sea.
- Habitat: intertidal to 80 m., attached by byssus to sea-fans.
- Original genus: *Avicula*.

B293 *P. coturnix* **DUNKER in MARTINI & CHEMNITZ, 1879**

Mon-uguisu

- Type locality: 'Mare Japoniae Mediterraneum' (Seto inland sea).
- Distribution: Kii peninsula and southwards, P5, Seto inland sea, Japan Sea (Mishima, J1), EC5; western Pacific.
- Habitat: 10-50 m., symbiotic on *Dendronephthya* spp.
- Original genus: *Avicula*.

B294 *P. tortirostris* (**DUNKER, 1849**)

Kōrai-uguisu

- Type locality: 'Insula Java' (Indonesia).
- Distribution: Kii peninsula and southwards, P5, EC5,

ECP4-ECP2, P2, East China Sea; South China Sea, Celebes Sea, Borneo, Philippines, Hainan.

- Habitat: 10-180 m., symbiotic with gorgonians.
- Original genus: *Avicula*.

**B295 *P. dendronephtha* HABE, 1960-b**

Toge-tosaka-no-uguisu

- Type locality: Tomioka, Amakusa island, western Kyūshū.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, East China Sea; South China Sea.
- Habitat: 10-50 m., attached to Alcyonarians, *Dendronephtha castanea* and allied species.

**B296 *P. carchariarum* JAMESON, 1901**

- Type locality: 'Sharks Bay' (western Australia).
- Distribution: 'Honshū to Taiwan; South China Sea, Philippines, Australia, Indo-Pacific' (BERNARD *et al.*, 1993).
- Habitat: intertidal to 30 m., rocks.

Subgenus ***Magnavicula* IREDALE, 1939**

Type species: *Magnavicula bennetti* IREDALE, 1939 (o. d.)

**B297 *P. (M.) penguin* (RÖDING, 1798)**

(= *Avicula macroptera* LAMARCK, 1819; *A. lotorium* LAMARCK, 1819; *Magnavicula bennetti* IREDALE, 1939)

Mabe

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, southern Kyūshū, ECP4-ECP2, P2; Philippines, Red Sea, Indo-Pacific to Australia.
- Habitat: subtidal to 20 m., attached to coral, rocks and large gorgonians.
- Original genus: *Pinctada*.

□ Genus ***Pterelectroma* IREDALE, 1939**

Type species: *Avicula zebra* REEVE, 1857 (o. d.)

**B298 *Pterelectroma zebra* (REEVE, 1857 in 1843-65)**

(= *Pteria tomlini* PRASHAD, 1932)

Shirochō-uguisu (= Kawari-shirochō-uguisu)

- Type locality: Moreton bay, Australia.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2, East China Sea; South China Sea, Philippines, Red Sea to Australia.
- Habitat: 10-30 m., rocks, attached by byssus to the sessile Hydrozoid *Lytocarpia negra*.
- Original genus: *Avicula*.

□ Genus ***Pinctada* RÖDING, 1798**

Type species: *Mytilus margaritiferus* LINNAEUS, 1758 (s. d. IREDALE, 1915)

**B299 *P. margaritifera* (LINNAEUS, 1758)**

(= *Margarita sinensis* LEACH, 1814; *Avicula cumingii, barbata, chamoides*, all REEVE, 1857 in 1843-65; *A. communis* HALL, 1859; *Pinctada margaritifera mazatlandica* JAMESON, 1901; *Margaritifera margaritifera zanzibarensis* JAMESON, 1901; *M. margaritifera persica* JAMESON, 1901; *M. margaritifera erythraensis* JAMESON, 1901; *M. fimbriata* DUNKER *sensu* BRYAN, 1915; *Pinctada galtsoffi* BARTSCH, 1931) Kuro-chōgai

- Type locality: 'in utriusque Indiae Oceano' (coasts of the Indian Ocean).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Persian Gulf to Australia.
- Habitat: intertidal to 50 m., rocks and coral.
- Original genus: *Mytilus*.

**B300 *P. maxima* (JAMESON, 1901)**

(= *Meleagrina margaritifera auct. non* LINNAEUS, 1758)

- Type locality: 'Basilaki (Moresby Island), British New Guinea'.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, South China Sea, Indo-Pacific, northern Australia.
- Habitat: intertidal to 60 m., rocks.
- Original genus: *Margaritifera*.

**B301 *P. chemnitzii* (PHILIPPI, 1849-b)**

(= *Avicula glabra* GOULD, 1850; *A. lentiginosa* REEVE, 1857; *A. tegulata* REEVE, 1857; *Pinctada epitheca* IREDALE, 1939; *P. shimizuensis* WADA & WADA, 1953)

Taiwan-aori-gai (= Shimizu-akoya-gai)

- Type locality: 'Mare Chinense' (China Sea).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Australia.
- Habitat: intertidal to 200 m., coarse sand and stones.
- Original genus: *Avicula*.

**B302 *P. albina* (LAMARCK, 1819 in 1815-22)**

(= *Avicula badia* DUNKER, 1852; *A. imbricata* MÖRCH, 1853; *A. occa, sugillata, irradians*, all REEVE, 1857; *A. radiata* VAILLANT, 1865 *non* LEACH, 1814 *nec* DESHAYES, 1830 *nec* PHILIPPI, 1836; *A. japonica* DUNKER, 1872 *non* DUNKER, 1852)

Mosuso-akoya-gai

- Type locality: 'Les mers de la Nouvelle Hollande, au canal d'Entrecasteaux et la Terre de Diemen' ('Australian seas; Entrecasteaux strait and Van Diemen's Land' *trans. auct.* Now probably Recherche islands (Western Australia) and Tasmania).
- Distribution: Amami islands, ECP3-ECP2, P2; Philippines, South China Sea, Australia, Indo-Pacific.

- Habitat: intertidal to 30 m., rubble.
- Original genus: *Meleagrina*.

**B303 *P. radiata* (LEACH, 1814 in LEACH & NODDER, 1814-17)**

(= *Perlamater vulgaris* SCHUMACHER, 1817; *Avicula squamulosa* LAMARCK, 1819; *Margarita crocata* SWAINSON, 1831; *Avicula nebulosa* CONRAD, 1837-a; *A. pallida* CONRAD, 1837-a; *A. fucata* GOULD, 1850; *A. lurida* GOULD, 1850; *A. lichtensteini*, *citrina*, *tamsiana*, *fimbriata*, *japonica*, all DUNKER, 1852; *A. flabellum*, *alaperdicii*, *muricata*, *lacunata*, *pernoides*, *perviridis*, *assula*, all REEVE, 1857; *A. echinus* DUNKER, 1872; *A. martensii* DUNKER, 1872; *Margaritifera pitcairnensis* JAMESON, 1901; *Pteria vulgaris* SCHUMACHER *sensu* LANGE, 1909)

Akoya-gai (Beni-kochō-gai)

- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5, P2; South China Sea, Philippines, Red Sea, Indo-Pacific.
- Habitat: intertidal to 20 m., rocks and coral; attached to sea whips and weed.
- Original genus: *Margarita*.

**B304 *P. maculata* (GOULD, 1850 in 1846-50)**

(= *Avicula pica* GOULD, 1852 *non* PHILIPPI, 1849; *A. radula* REEVE, 1857; *Pteria panaseae* JAMESON, 1901; *P. mauritii* JAMESON, 1901)

Midori-aori-gai

- Type locality: Tutuilla, Samoa islands.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, South China Sea, Fiji, Samoa, Indo-Pacific.
- Habitat: intertidal to 20 m., rocks and gravel.
- Original genus: *Avicula*.

**B305 *P. nigra* (GOULD, 1850 in 1846-50)**

(= *Avicula atropurpurea* DUNKER, 1852; *A. flexuosa* REEVE, 1857; *A. reentsii* DUNKER, 1872; *A. tristis* DUNKER, 1872; *Margaritifera natalensis* JAMESON, 1901)

Murasaki-chōgai

- Type locality: 'dredged at Singapore'.
- Distribution: Suruga bay and southwards, P6-P5, ECP4-ECP2, P2; Philippines, South China Sea, Hainan, Malaysia, Singapore, Indian Ocean.
- Habitat: intertidal to 20 m., rocks and coral.
- Original genus: *Avicula*.

□ Genus *Electroma* STOLICZKA, 1871

Type species: *Avicula smaragdina* REEVE, 1857 (mt.; = *Mytilus alacorvi* DILLWYN, 1817)

**B306 *E. alacorvi* (DILLWYN, 1817)**

(= *Avicula papilionacea* LAMARCK, 1819; *A. linguatula*

DESHAYES, 1830; *Meleagrina ovata* QUOY & GAIMARD, 1835 *non* SOWERBY, 1824; *M. tongana* QUOY & GAIMARD, 1835; *M. semiaurata* MÖRCH, 1853 *non* MÜNSTER, 1840; *Avicula smaragdina* REEVE, 1857; *A. fuscopurpurea* E. A. SMITH, 1876; *A. cochenhausenii* DUNKER, 1872)

Shima-uguisu (= Midori-shima-uguisu)

- Type locality: 'the coasts of the South Sea Islands'.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, South China Sea, Red Sea to Australia, Indo-Pacific.
- Habitat: intertidal to 20 m., rocks and coral.
- Original genus: *Mytilus*.

Family ISOGNOMONIDAE WOODRING, 1925

□ Genus *Isognomon* LIGHTFOOT, 1786

Type species: *Ostrea perna* LINNAEUS, 1767 (mt.)

Subgenus *Isognomon s. str.*

**B307 *I. (I.) pernum* (LINNAEUS, 1767)**

(= *I. marsupiale* RÖDING, 1798; *Perna sulcata* LAMARCK, 1819; *P. eremita* GOULD, 1850; *P. limoides* REEVE, 1858)

Aori-gai (= Kaishi-aori-gai)

- Type locality: 'in Indiis'.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, South China Sea, Indo-Pacific.
- Habitat: intertidal to 20 m., sand and gravel.
- Original genus: *Ostrea*.

**B308 *I. (I.) ehippium* (LINNAEUS, 1758)**

Makugai

- Type locality: 'in M. Asiatico' (Asian seas).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; South China Sea, Hong Kong, Hainan, tropical Indo-Pacific.
- Habitat: intertidal to 10 m., rocks.
- Original genus: *Ostrea*.

**B309 *I. (I.) legumen* (GMELIN, 1791)**

(= *Perna caudata*, *linguaeformis*, *laticostata*, all REEVE, 1858 in 1843-65)

Shiro-aori-gai

- Type locality: 'ad insulas Nicobaricas' (Nicobar islands, Indian Ocean).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5, ECP4-ECP2, P2; Philippines, South China Sea, Hainan, Hong Kong, Red Sea, Indo-Pacific.
- Habitat: intertidal to 25 m., rocks and coral.
- Original genus: *Ostrea*.

Subgenus *Isogonum* RÖDING, 1798

Type species: *Isogonum norma* RÖDING, 1798 (by

tautonymy; = *Ostrea isognomum* LINNAEUS, 1758)

**B310 *I. (Isogonum) isognomum* (LINNAEUS, 1758)**  
( = *Isogonum norma* RÖDING, 1798; *Perna tranquebaris* LEACH, 1815; *P. femoralis* LAMARCK, 1819; *P. canina* LAMARCK, 1819; *P. fimbriata* REEVE, 1858; *P. patibulum* REEVE, 1858; *P. vespertilio* REEVE, 1858; *P. novohollandiae* CLESSIN 1890; *P. aquila* CLESSIN, 1890)

Shumoku-aori-gai

- Type locality: none designated.
- Distribution: Ogasawara islands, southern Kyūshū and southwards, ECP4-ECP2, P2; Philippines, South China Sea, Red Sea to western Pacific.
- Habitat: intertidal to 20 m., rubble.
- Original genus: *Ostrea*.

Subgenus ***Parviperna* IREDALE, 1939**

Type species: *Parviperna perexigua* IREDALE, 1939 (o. d.)

**B311 *I. (P.) nucleus* (LAMARCK, 1819 in 1815-22)**  
( = *Perna nana* GOULD, 1851; *P. samoensis* BAIRD in BRENCHLEY, 1873)

Heritori-aori-gai

- Type locality: 'à l'île S.-Pierre-S.-François de la Nouvelle Hollande' (St. Francis islands, off Ceduna, South Australia).
- Distribution: Ogasawara islands, P11, Kii peninsula and southwards, P5, EC5, ECP4-ECP2; South China Sea; Hong Kong, Hainan, Red Sea, Indo-Pacific.
- Habitat: intertidal to 25 m., rocks and coral.
- Original genus: *Perna*.

□ Genus ***Crenatula* LAMARCK, 1803**

Type species: *Crenatula avicularis* LAMARCK, 1803 (s. d. STOLICZKA, 1871)

**B322 *C. modiolaris* LAMARCK, 1819 in 1815-22**  
( = *C. flammea* REEVE, 1858; *C. nakayamai* KURODA & HABA in HABA, 1961)

Yabusame-gai

- Type locality: 'les mers de la Nouvelle Hollande' (Australian seas).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; South China Sea, Hainan, Hong Kong, Indian Ocean.
- Habitat: intertidal to 10 m., in sponges.

Family **MALLEIDAE LAMARCK, 1819**

( = VULSELLIDAE H. & A. ADAMS, 1857 in 1853-58)

□ Genus ***Vulsella* RÖDING, 1798**

Type species: *Vulsella major* RÖDING, 1798 (s. d. PRASHAD, 1932; = *Mya vulsella* LINNAEUS, 1758 - ICZN op. 325)

**B323 *V. vulsella* (LINNAEUS, 1758)**

( = *V. major* RÖDING, 1798; *V. linguata* LAMARCK, 1801; *V. hians* LAMARCK, 1819; *V. mytilina* LAMARCK, 1819)

Hō-ō-gai (= Fū-chō-gai)

- Type locality: 'in Indiis'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J2-J1), EC5, ECP4-ECP2, P2; Philippines, South China Sea, Hong Kong, Red Sea, Indo-Pacific.
- Habitat: 5-20 m., in sponges.
- Original genus: *Mya*.

**B324 *V. minor* RÖDING, 1798**

( = *V. spongiarum auct. non* LAMARCK, 1819; *V. pholadiformis* REEVE, 1858; *V. attenuata* REEVE, 1858; *V. ililima* GREGORIO, 1885; *V. assabensis* GREGORIO, 1885)

Hime-hō-ō-gai

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, East China Sea; South China Sea, Red Sea, Indonesia.
- Habitat: intertidal to 20 m., in sponges attached to *Composita retusa*.

□ Genus ***Malleus* LAMARCK, 1799**

Type species: *Malleus vulgaris* LAMARCK, 1799 (by tautonymy; = *Ostrea malleus* LINNAEUS, 1758)

**B325 *M. malleus* (LINNAEUS, 1758)**

( = *M. vulgaris* LAMARCK, 1801)

Kuro-shumi-sen-gai

- Type locality: 'in *O. Asiatico*' (Asian seas).
- Distribution: Kii peninsula and southwards, P5, southern Kyūshū, ECP4-ECP2, P2; Philippines, South China Sea, Hong Kong, Indo-western Pacific.
- Habitat: intertidal to 15 m., rocks and coral.
- Original genus: *Ostrea*.

**B326 *M. albus* LAMARCK, 1819 in 1815-22**

( = *Margaritifera bipennis* HUMPHREY, 1797 *nom. dub.*)

Shumoku-gai (= Shumoku-gaki)

- Type locality: 'les mers orientales australes' (southern eastern seas).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (J1), northern Kyūshū, EC5, ECP4-ECP2, P2; Philippines, Red Sea, Indo-Pacific.
- Habitat: intertidal to 80 m., coarse sand and stones.

□ Genus ***Malvufundus* GREGORIO, 1885**

Type species: *Ostrea regula* FORSKÅL, 1775 (s. d. COX, 1969)

( = *Parimalleus* IREDALE, 1931; *Malvifundus* (*sic*) HABA, 1977)

**B327 *M. regulus* (FORSKÅL, 1775)**

Niwatori-gaki

(= *Ostrea forskalli* GMELIN, 1791; *Himantopoda truncata* SCHUMACHER, 1817; *Malleus vulsellatus* LAMARCK, 1819; *Malleus decurtatus* LAMARCK, 1819; *Vulsella nuttalli* CONRAD, 1837-a; *Malleus daemonicus* REEVE, 1858; *Malleus tigrinus* REEVE, 1858)

- Type locality: 'Sués' (Suez, northern Red Sea).
- Distribution: southern Kyūshū and southwards, ECP4-ECP2, P2; Philippines, Indo-Pacific, Red Sea.
- Habitat: intertidal to 10 m., attached to rocks.
- Original genus: *Ostrea*.

**B328 *M. irregularis* JOUSSEAUME, 1894-a**

Hiryō

- Type locality: 'Japon'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, East China Sea; Taiwan, western Pacific.
- Habitat: intertidal to 20 m., rocks.

Superfamily **PINNOIDEA LEACH, 1819**

Family **PINNIDAE LEACH, 1819**

(Refs.: Habe, 1953-c)

□ Genus ***Pinna* LINNAEUS, 1758**

Type species: *Pinna rudis* LINNAEUS, 1758 (s. d. CHILDREN, 1823)

(= *Exitopinna* IREDALE, 1939)

Subgenus ***Pinna* s. str.**

**B329 *P. (P.) epica* JOUSSEAUME, 1894-a**

(= *Atrina (Servatrina) tenuis* HABE, 1953)

Kara-bōki-gai (= Usu-tairagi)

- Type locality: 'Japon'.
- Distribution: Izu islands and southwards, P6-P5; Taiwan, South China Sea.
- Habitat: intertidal to 10 m., sandy mud.

**B330 *P. (P.) linguafelis* (HABE, 1953-c)**

Hishi-tairagi

- Type locality: Tosa bay, southern Shikoku; ± 200 m.
- Distribution: Izu islands and southwards, P6-P5, EC5, East China Sea.
- Habitat: 150-400 m., sand and gravel.
- Original genus: *Atrina*.

**B331 *P. (P.) cellophana* MATSUKUMA & SAKURAI, 1986**

(= *P. cellophana* NAKAYAMA, 1965 *nom. nud.*)

Biidoro-tairagi

- Type locality: off Okinoshima, southwestern Shikoku.
- Distribution: Tosa bay (southern Shikoku, 100-200 m., sand), Okinawa (intertidal to 5 m., sand; BERNARD *et al.*, 1993).

Subgenus ***Quantulopinna* IREDALE, 1939**

Type species: *Quantulopinna delsa* IREDALE, 1939 (o. d.; = *Pinna muricata* LINNAEUS, 1758)

**B332 *P. (Q.) muricata* LINNAEUS, 1758**

(= *Pinna nebulosa* LIGHTFOOT, 1786 *nom. nud.*; *P. papyracea* GMELIN, 1791; *P. semicostata* CONRAD, 1837-a; *P. virgata* MENKE, 1843; *P. trigonalis* PEASE, 1861; *P. aequilata* MARTENS, 1880 *non* WEINKAUFF, 1867; *P. hawaiiensis* DALL, BARTSCH & REHDER, 1938; *P. exquisita* DALL, BARTSCH & REHDER, 1938; *Quantulopinna delsa* IREDALE, 1939; *Q. delsa howensis* IREDALE, 1939)

Iwakawa-hagoromo

- Type locality: 'in *M. Mediterraneo*' (Mediterranean Sea; erroneous).
- Distribution: Izu islands and southwards, P11, northern Ogasawara islands P6-P5, EC5, ECP4-ECP2, P2; Philippines, South China Sea, Hainan, Indo-Pacific.
- Habitat: intertidal to 60 m., sandy mud among gravel patches.

**Notes:** for discussion of the status of this species see COX & HERTLEIN in MOORE (Ed.) (1969): N283.

**B333 *P. (Q.) atropurpurea* SOWERBY I, 1825**

(= *Pinna trigonum* DUNKER, 1852; *P. philippinensis*, *zebuensis*, *fumata*, *menkei*, *euglypta*, *augustana*, *regia*, all REEVE, 1858; *P. menkei* WHITELEGGE, 1889 *non* REEVE, 1858)

Suehiro-gai

- Type locality: 'Trincomalee' (Sri Lanka).
- Distribution: western Japan Sea (Tsushima), Amami islands and southwards, ECP3-ECP2, P2; Philippines, Hainan, South China Sea, Indo-Pacific, India.
- Habitat: intertidal to 50 m., sandy mud.

Subgenus ***Cyrtopinna* MÖRCH, 1853**

Type species: *Pinna incurva* GMELIN, 1791 (mt.)

**B334 *P. (C.) incurva* GMELIN, 1791**

(= *Pinna incurvata* SOWERBY, 1825 *non* BORN, 1778)

Kinu-bōki-gai

- Type locality: 'in *Oceano indico*' (Indian Ocean).
- Distribution: Kii peninsula (KURODA, 1930); southern Philippines, South China Sea, Hainan, Australia, Indo-Pacific.
- Habitat: intertidal to 50 m., sandy mud.

**B335 *P. (C.) bicolor* GMELIN, 1791**

(= *Pinna dolabrata* LAMARCK, 1819; *P. deltoides* MENKE, 1843; *P. trigonum* DUNKER, 1852; *P. electrina*, *madida*, *mutica*, *vespertina*, *attenuata*, all REEVE, 1858; *P. rostellum* HANLEY, 1858; *P. fimbriatula* REEVE, 1859; *P. stutchburii* REEVE, 1859; *P. inermis* TATE, 1887; *P. rollei*, *mollucensis*, *atrata*, all CLESSIN, 1891; *P. cochlearis* H. FISCHER, 1901; *P. natalensis* E. A. SMITH,

1906; *P. isocles* HEDLEY, 1924; *P. menkei caviterga* HEDLEY, 1924; *P. scapula* HEDLEY, 1924; *P. densecostata* TURTON, 1932; *Exitopinna deltoidea ultra* IREDALE, 1939)

Habōki-gai

- Type locality: 'in mari rubro' (Red Sea).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hainan, Hong Kong, Indo-western Pacific, South Africa, Hawaii to Australia.
- Habitat: intertidal to 10 m., sandy mud.

□ Genus *Atrina* GRAY, 1847

Type species: *Pinna nigra* DILLWYN, 1817 (s. m. GRAY, 1847; = *Pinna vexillum* BORN, 1778)

Subgenus *Atrina s. str.*

B336 A. (A.) *vexillum* (BORN, 1778)

(= *Pinna rudis* 'var. b' LINNAEUS, 1767; *P. nigricans* LIGHTFOOT, 1786; *P. exusta* GMELIN, 1791; *P. gubernaculum* RÖDING, 1798; *P. nigra* DILLWYN, 1817; *P. adjusta* DILLWYN, 1817; *P. nigrina* LAMARCK, 1819; *P. gouldi* REEVE, 1858; *P. hystrix* HANLEY, 1858; *P. oahua* DALL, BARTSCH & REHDER, 1938; *Atrina recta* DALL, BARTSCH & REHDER, 1938; *A. gouldii banksiana* IREDALE, 1939)

Kuro-tairagi (= Murasaki-tairagi)

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, southern Kyūshū, ECP4-ECP2, P2; Philippines, South China Sea, Hainan, Red Sea, Indo-western Pacific.
- Habitat: intertidal to 60 m., sandy mud.
- Original genus: *Pinna*.

Subgenus *Servatrina* IREDALE, 1939

Type species: *Pinna assimilis* REEVE, 1858 (o. d.)

B337 A. (S.) *pectinata* (LINNAEUS, 1767)

(= *Pinna inflata* RÖDING, 1798 *nom. nud.*; *P. inflata* DILLWYN, 1817; *P. cancellata* MAWE, 1823; *P. chinensis* DESHAYES in CUVIER, 1841; *P. chemnitzii* HANLEY, 1858; *P. strangei* HANLEY, 1858; *P. hanleyi, lurida, serra*, all REEVE, 1858; *P. japonica* HANLEY *sensu* REEVE, 1858; *P. lischkeana* CLESSIN, 1891)

Tairagi (= Takasago-tairagi; Rishike-tairagi)

- Type locality: 'India'.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5, P2, East China Sea; Yellow Sea, South China Sea, Bo-hai, Korea, southeast Asia, western Pacific, Australia.
- Habitat: intertidal to 90 m., fine sand and mud.
- Original genus: *Pinna*.

**Note:** see YOKOGAWA (1996: Venus, vol. 55 (1): 25-39).

B338 A. (S.) *penna* (REEVE, 1858 in 1843-65)

Hane-tairagi

- Type locality: 'Philippine Islands'.
- Distribution: Izu islands and southwards, Sagami bay, P11, northern Ogasawara islands, P6-P5, Japan Sea (Noto peninsula, J2-J1), EC5; Philippines, Indonesia.
- Habitat: intertidal to 200 m., fine sand.
- Original genus: *Pinna*.

B339 A. (S.) *kinoshitai* HABE, 1953-c

Mino-tairagi

- Type locality: off Wakayama prefecture (Kii peninsula, central Honshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, East China Sea.
- Habitat: 100-600 m., fine sand.

B340 A. (S.) *lamellata* HABE, 1961-a

Hihada-buki-tairagi

- Type locality: off Wakayama prefecture (Kii peninsula, central Honshū).
- Distribution: western Kii peninsula, Tosa bay (southern Shikoku).
- Habitat: 100-200 m., sandy mud.

B341 A. (S.) *teramachii* HABE, 1953-c

Kawa-tairagi (= Usu-iro-tairagi)

- Type locality: Tosa bay, southern Shikoku.
- Distribution: Sagami bay and westwards, P6-P5, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5, East China Sea.
- Habitat: 100-600 m., fine sand.

□ Genus *Streptopinna* MARTENS, 1880

Type species: *Pinna saccata* LINNAEUS, 1758 (mt.)

B342 S. *saccata* (LINNAEUS, 1758)

(= *Pinna lubrica* LIGHTFOOT, 1786 *nom. nud.*; *P. vitrea* GMELIN, 1791; *P. saccata similis* TURTON, 1832; *P. nuttalli* CONRAD, 1837-a; *P. elongata* REEVE, 1858; *Streptopinna saccata inusitata* IREDALE, 1927)

Kagerō-gai

- Type locality: 'in M. Mediterraneo, Indico' (Mediterranean and Indian seas).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5, ECP4-ECP2, P2; Philippines, South China Sea, South Africa, Australia.
- Habitat: intertidal to 20 m., among coral and gravel.
- Original genus: *Pinna*.

Order LIMOIDA WALLER, 1978

Superfamily LIMOIDEA RAFINESQUE, 1815

Family LIMIDAE RAFINESQUE, 1815

□ Genus *Lima* BRUGUIÈRE, 1797 in 1791-1797

Type species: *Lima alba* CUVIER, 1797 (mt.; = *Ostrea*



*lima* LINNAEUS, 1758)

**B343 *L. vulgaris* (LINK, 1807)**

(= *L. squamosa* LAMARCK, 1801; *L. multicosata* SOWERBY, 1843; *L. sowerbyi* DESHAYES, 1863; *L. zealandica* SOWERBY, 1876; *L. nimbifer* IREDALE, 1924; *L. benthonimbifer* IREDALE, 1925; *Austrolima nimbifer gemina* IREDALE, 1929; *A. spectata* IREDALE, 1929; *A. tropicalis* IREDALE, 1929; *Lima persquamifer* IREDALE, 1939; *L. sowerbyi nipponica* ŌYAMA, 1943)  
Mino-gai (= Taroku-mino-gai)

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hainan, Hong Kong, Australia, Red Sea, Indo-Pacific.
- Habitat: intertidal to 20 m., attached by byssus in crevices in rocks and coral.
- Original genus: *Limaria*.

**B344 *L. ogasawaraensis* HABE, 1993-a**

Ogasawara-mino-gai

- Type locality: off Taki-no-ura, Chichijima, Ogasawara islands; attached to sunken aeroplane at ± 50 m.
- Distribution: recorded only from type locality.

**B345 *L. profunda* MASAHITO, KURODA & HABE in KURODA *et al.*, 1971**

Yūbi-mino-gai

- Type locality: Sagami bay, central Honshū.
- Distribution: recorded only from type locality.

**B346 *L. vulgata* YOKOYAMA, 1922**

(= *L. fujitai* ŌYAMA, 1943)

Rō-iro-mino-gai (= Matsumoto-mino-gai; Chibi-mino-gai)

- Type locality: Shitō, Ichihara City, Chiba prefecture, central Honshū (fossil).
- Distribution: northeastern Honshū (off Miyagi prefecture) and southwards, P8-P5, Japan Sea (northern Niigata prefecture, J3-J1), EC5, ECP4.
- Habitat: 50-300 m., attached by byssus to rocks and stones.

**B347 *L. zushiensis* YOKOYAMA, 1920**

Makuhachi-mino-gai

- Type locality: Zushi City, eastern Sagami bay (fossil).
- Distribution: off Ibaraki prefecture and southwards, P8-P5, Japan Sea (Oga peninsula, J3-J1), EC5.
- Habitat: 50-200 m., attached by byssus to rocks and stones.

**B348 *L. quantoensis* YOKOYAMA, 1920**

Kanto-mino-gai

- Type locality: Koshiba, Kanagawa-ku, Yokohama City (fossil).
- Distribution: Bōsō peninsula and southwards, P7-P5,

EC5.

- Habitat: 50-200 m., rocks and gravel.

**B349 *L. tomlini* PRASHAD, 1932**

Maru-mino-gai

- Type locality: 'Siboga' sta. 251, Arafura Sea: 05° 28.4' S., 132° 0.2' E., 204 m.
- Distribution: Kii peninsula and southwards, P5, Japan Sea (Tsushima strait, J1), EC5, East China Sea, P2; South China Sea, Hainan, Philippines, Indonesia, Arafura Sea.
- Habitat: 200-500 m., sand and gravel.

**B350 *L. sagamiensis* MASAHITO, KURODA & HABE in KURODA *et al.*, 1971**

Sagami-maru-mino-gai

- Type locality: Sagami bay, central Honshū.
- Distribution: recorded only from type locality.

□ Genus *Acesta* H. & A. ADAMS, 1858 in 1853-58

Type species: *Ostrea excavata* FABRICIUS, 1779 (mt.)

Subgenus *Acesta s. str.*

**B351 *A. (A.) goliath* (SOWERBY II, 1883)**

Ō-hane-gai

- Type locality: Japan.
- Distribution: Kii peninsula and northwards, P5-P10 (Sagami bay OKUTANI, 1968), Japan Sea (off Mishima, J1-J4), southern Hokkaidō.
- Habitat: 100-1417 m., fine sand and gravel.
- Original genus: *Lima*.

**B352 *A. (A.) marissinica* YAMASHITA & HABE, 1969-a**

Sudare-ō-hane-gai

- Type locality: east China Sea off Amami Ōshima: 29° 27.2' N., 128° 16.2' E., 1065-1075 m.
- Distribution: off Kii peninsula and southwards, Tosa bay, East China Sea; South China Sea.
- Habitat: 450-1200 m., sandy mud.
- Notes: originally in subgenus *Callolima*.

**B353 *A. (A.) citrina* MASAHITO & HABE, 1976**

Mikan-ō-hane-gai

- Type locality: Kii peninsula (Wakayama prefecture, central Honshū).
- Distribution: Sagami bay and westwards, Kumano-nada, off Kii peninsula.
- Habitat: 150-300 m., fine sand.

**B354 *A. (A.) virgo* HABE & OKUTANI, 1968**

Akebono-hane-gai

- Type locality: off Midway island, central Pacific; ± 480 m.
- Distribution: off Chōshi (Chiba prefecture, central Honshū, 35° 20' N., 140° 50' E., 780 m. WATANABE, 1989); central Pacific.

- Habitat: 400-800 m.

Subgenus *Plicacesta* **VOKES, 1963**

Type species: *Lima smithi* SOWERBY III, 1888 (o. d.)

B355 *A. (P.) smithi* (**SOWERBY III, 1888-a**)

Sumisu-hane-gai (= Sumisu-ō-hane-gai)

- Type locality: Japan.
- Distribution: Kii peninsula and northwards, P5-P10, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J4); Yellow Sea.
- Habitat: 100-700 m., mud.
- Original genus: *Lima*.

□ Genus *Ctenoides* **MÖRCH, 1853**

Type species: *Ostrea scabra* BORN, 1778 (s. d. STOLICZKA, 1871)

B356 *C. ales* (**FINLAY, 1927**)

(= *Lima alata* HEDLEY, 1889 non RÖMER, 1836, nec LYCETT, 1850)

Ukon-hane-gai

- Type locality: 'Santa Cruz, South Pacific' (Santa Cruz group, Solomon islands).
- Distribution: Ogasawara islands and southwards, P11, Kii peninsula, P5, ECP4-ECP2, P2; Philippines, South China Sea, tropical Pacific.
- Habitat: 5-20 m., in crevices.

B357 *C. annulata* (**LAMARCK, 1819 in 1815-22**)

(= *Lima tenera* SCHRÖTER, 1778; *L. brunnea* COOK, 1886; *L. tenera* SOWERBY *sensu* KURODA, 1928; *L. scabra* STANDEN & LEICESTER, 1906 non BORN, 1778; *Ctenoides fenescabra* IREDALE, 1939)

Midari-hane-gai

- Type locality: 'à l'Isle de France' (Mauritius).
- Distribution: Kii peninsula and southwards, P5, southern Kyūshū, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Red Sea, tropical Indo-Pacific.
- Habitat: intertidal to 10 m., in rocks and dead coral heads.
- Original genus: *Lima*.

B358 *C. concentrica* (**SOWERBY III, 1888-a**)

(= *Lima oshimensis* SOWERBY III, 1914)

Ōshima-hane-gai

- Type locality: Hong Kong.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, southern and central Pacific.
- Habitat: intertidal to 20 m., rocks and dead coral heads.
- Original genus: *Lima*.

B359 *C. lischkei* (**LAMY, 1930**)

(= *Lima japonica* DUNKER, 1877 non *Limatula japonica* A. ADAMS, 1864-f; *L. dunkeri* E. A. SMITH, 1885 non HAGENOW, 1842)

Hane-gai

- Type locality: Japan.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (southern Niigata prefecture, J3-J1), EC5, ECP4-ECP2, East China Sea; South China Sea, Taiwan, Philippines, Australia, Indo-Pacific.
- Habitat: intertidal to 100 m., attached to rocks and stones.
- Original genus: *Lima*.

B360 *C. suavis* **MASAHITO, KURODA & HABA in KURODA et al., 1971**

Ten'nin-hane-gai

- Type locality: 1.5 km. southwest off Jōgashima, Sagami bay, central Honshū; 80-87 m.
- Distribution: Sagami bay and southwards, P6-P5, western Kyūshū.
- Habitat: 50-200 m., sand and shell bottom.

B361 *C. minimus* **HAYAMI & KASE, 1993**

Keshi-hane-gai

- Type locality: sediments in 'L-arch' cave, Irabu island (Miyako group, Okinawa prefecture).
- Distribution: Ryūkyū islands (Shimoji; Ie; Irabu); Philippines ('Balicasag cave' off Panglao, Bohol).
- Habitat: subtidal in caves.

□ Genus *Divarilima* **POWELL, 1958**

Type species: *Lima sydneyensis* HEDLEY, 1904 (o. d.)

B362 *D. iwaotakii* (**HABA, 1961-c**)

Taki-hane-gai

- Type locality: Iyo-nada (Seto inland sea off Ehime prefecture, northwestern Shikoku).
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (Tsushima strait, J1), EC5.
- Habitat: 20-200 m., fine sand.
- Original genus: *Acesta*.

B363 *D. elegans* **HAYAMI & KASE, 1993**

Hime-taki-hane-gai

- Type locality: sediments in 'Shō-dōkutsu' cave, Ie island (Okinawa prefecture).
- Distribution: recorded only from type locality.

□ Genus *Limaria* **LINK, 1807**

Type species: *Limaria inflata* LINK, 1807 (s. d. WINCKWORTH, 1930; = *Ostrea tuberculata* OLIVI, 1792)

Subgenus *Limaria s. str.*

B364 *L. (L.) basilanica* (**ADAMS & REEVE, 1850 in 1848-50**)

Yuki-mino

- Type locality: Basilan island, Philippines.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (Sado island, J3-J1), EC5,

ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Australia, Indo-Pacific.

- Habitat: intertidal to 20 m., fine sand.
- Original genus: *Lima*.

**B365 *L. (L.) orientalis* (ADAMS & REEVE, 1850 in 1848-50)**

( = *Lima hakodatensis* TOKUNAGA, 1906)

Fukure-yuki-mino

- Type locality: 'Philippine Archipelago'.
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea; Korea, Yellow Sea, China, Philippines, western Pacific.
- Habitat: 5-120 m., fine sand.
- Original genus: *Lima*.

**B366 *L. (L.) kawamurai* MASAHIRO & HABE, 1972**  
Kawamura-yuki-mino

- Type locality: Tosa bay, southern Shikoku; ± 130 m.
- Distribution: Enshū-nada (off Shizuoka prefecture) and westwards, Kii peninsula, Tosa bay, Okinawa islands, East China Sea.
- Habitat: 100-150 m., fine sand.

**Notes:** originally in subgenus *Limatulella*.

Subgenus *Platilimaria* HABE, 1977-a

Type species: *Lima hirasei* PILSBRY, 1901 (o. d.)

**B367 *L. (P.) hirasei* (PILSBRY, 1901)**

Usu-yuki-mino

- Type locality: Hirado island, Nagasaki prefecture, western Kyūshū.
- Distribution: northeastern Honshū (Fukushima prefecture) and southwards, P8-P5, Japan Sea (Sado island, J3-J1), EC5, East China Sea, P2; Red Sea.
- Habitat: intertidal to 50 m., rocks and gravel.
- Original genus: *Lima*.

**B368 *L. (P.) fragilis* (GMELIN, 1791)**

( = *Lima linguatula* LAMARCK, 1819; *Promantellum parafragile* IREDALE, 1939; *Lima kiiensis* ŌYAMA, 1943; *Promantellum kiiense sensu* KIRA, 1959)

Hira-yuki-mino ( = Eboshi-yuki-mino)

- Type locality: 'ad insulas Nicobaricas' (Nicobar islands, Indian Ocean).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Red Sea, tropical Pacific.
- Habitat: intertidal to 20 m., rocks and gravel.
- Original genus: *Ostrea*.

**B369 *L. (P.) dentata* (SOWERBY II, 1843 in 1842-87)**

Naginata-yuki-mino

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, southeast Asia.

- Habitat: intertidal to 20 m., rocks and gravel.

**B370 *L. (P.) perfragilis* (HABE & KOSUGE, 1966-a)**  
Kagerō-mino-gai

- Type locality: Pelileu island, Palau.
- Distribution: Amami islands and southwards, Okinawa (HABE, 1980-b), ECP3-ECP2, P2, East China Sea; Philippines, South China Sea, southern Pacific.
- Habitat: intertidal to 20 m., under coral and rocks.
- Original genus: *Mantellum*.

Subgenus *Limatulella* SACCO, 1898

Type species: *Lima loscombii* SOWERBY I, 1820 (o. d.)

**B371 *L. (Lt.) amakusaensis* (HABE, 1960-a)**

Amakusa-yuki-mino

- Type locality: Tomioka, Amakusa island, western Kyūshū.
- Distribution: Sagami bay and westwards, Kii peninsula, western Kyūshū.
- Habitat: 10-50 m., fine sand.
- Original genus: *Mantellum*.

□ Genus *Isolimea* IREDALE, 1929

Type species: *Limea parvula* VERCO, 1908 (o. d.)

**B372 *I. limopsis* (NOMURA & JINBO, 1934)**

Shirasuna-yuki-bane ( = Shirasuna-yuki-mino)

- Type locality: Kamikatetsu, Kikai island, Amami islands (fossil).
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, East China Sea.
- Habitat: 60-200 m., fine sand.
- Original genus: *Lima*.

□ Genus *Limatula* WOOD, 1839

Type species: *Pecten subauriculata* MONTAGU, 1808 (s. d. GRAY, 1847)

Subgenus *Limatula s. str.*

**B373 *L. (L.) subauriculata* (MONTAGU, 1808 in 1803-08)**

( = *Lima elongata* FORBES, 1845)

Moshiki-yuki-bane

- Type locality: 'on the coast of Devon' (Britain).
- Distribution: 'Pacific coast, 34°-51° N., Japan Sea coast at 46° N.' (KURODA & HABE, 1952-a); 'Northern half of the Atlantic Ocean. In Europe from the Arctic south to the Canaries and into the Mediterranean' (POPPE & GOTŌ, 1993-a).
- Original genus: *Pecten*.

**B374 *L. (L.) vladivostokensis* (SCARLATO, 1955)**

Hime-yuki-bane-gai

- Type locality: Vladivostok, Primoriye region (Japan Sea coast of Russia).
- Distribution: Kii peninsula and northwards, P6-P10, Japan

Sea (off Mishima, J1-J5), OP, Okhotsk Sea; Primoriye region, Sakhalin.

- Habitat: 50-350 m., fine sand.

**B375 *L. (L.) nippona* HABE, 1960-a**

Kona-yuki-bane (= Kona-yuki-mino)

- Type locality: Tanabe bay, Kii peninsula (central Honshū).
- Distribution: Kii peninsula and southwards, P5, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5, ECP4-ECP3.
- Habitat: 5-80 m., fine sand.

**B376 *L. (L.) choshiensis* KURODA & HABE in HABE, 1961-a**

Chōshi-yuki-bane

- Type locality: off Chōshi (Chiba prefecture, central Honshū).
- Distribution: Kashima-nada (off Ibaraki prefecture) and southwards to Bōsō peninsula.
- Habitat: 200-300 m., fine sand.

**B377 *L. (L.) kurodai* ŌYAMA, 1943**

Kuroda-yuki-bane

- Type locality: Kashima-nada off Ibaraki prefecture, central Honshū.
- Distribution: Kashima-nada and southwards, P8-P5, Japan Sea (Sado island, J3-J1), EC5, ECP4.
- Habitat: 10-300 m., fine sand.

**B378 *L. (L.) abyssicola* OKUTANI, 1962**

Shinkai-yuki-bane (= Watazoko-hane-gai)

- Type locality: 'Sōyō-Maru' sta. B2, 26 miles off Miyake island, Izu islands: 34° 10.0' N., 140° 05.0' E., 1230-1350 m.
- Distribution: Izu islands (Izu-Ōshima; Miyake island OKUTANI, 1962).

**B379 *L. (L.) filatovae* OKUTANI, 1975**

- Type locality: off Torishima, southern Izu islands: 30° 47.0' N., 140° 40.5' E., 2140 m.
- Distribution: recorded only from type locality.

**B380 *L. (L.) sibogai* (PRASHAD, 1932)**

Shiboga-yuki-bane

- Type locality: 'Siboga' sta. 208, near Celebes (Sulawesi), Indonesia: 05° 39' S., 122° 12' E., 1886 m.
- Distribution: Tosa bay (TSUCHIDA, 1994-b), western Kyūshū (off Kushikino, 760 m. OKUTANI, 1962) and southwards, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Celebes Sea, Indonesia.
- Habitat: 700-2000 m., mud.
- Original genus: *Lima* (*Limatula*).

**B381 *L. (L.) gwyni* (SYKES, 1903)**

(= *Lima elliptica* JEFFREYS, 1863)

Seiyō-yuki-bane

- Type locality: 'Sandy mud, in 15-85 fathoms, off the Shetland Isles and west coast of Scotland'.
- Distribution: Japan (POPPE & GOTŌ, 1993-a); Atlantic, Arctic to Gulf of Mexico.
- Habitat: 20-2000 m.

**B382 *L. (L.) kinjoi* HAYAMI & KASE, 1993**

Kinjō-yuki-bane

- Type locality: sediments in 'Cross Hole' cave, Irabu island (Miyako islands, Okinawa prefecture).
- Distribution: Ryūkyū islands (Shimoji; Irabu; Ie).
- Habitat: subtidal in caves.

**Subgenus *Limatulella* FLEMING, 1978**

Type species: *Limatula japonica* A. ADAMS, 1864-f (o. d.)

**B383 *L. (Limatulella) japonica* A. ADAMS, 1864-f**

(= *L. morioria* MARWICK, 1928)

Nippon-yuki-bane

- Type locality: Japan.
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Noto peninsula, J2-J1), EC5, East China Sea; South China Sea, Australia, Indo-Pacific.
- Habitat: 20-600 m., fine sand.

**Subgenus *Stabilima* IREDALE, 1939**

Type species: *Stabilima tadena* IREDALE, 1939 (o. d.)

**B384 *L. (S.) bullata* (BORN, 1778)**

(= *Lima strangei* auct. non SOWERBY, 1872)

Ō-yuki-bane-gai

- Type locality: Atlantic Ocean.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Wakasa bay, J2-J1), EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Indo-Pacific.
- Habitat: 10-100 m., fine sand.
- Original genus: *Ostrea*.

□ Genus *Notolimea* IREDALE, 1924

Type species: *Lima australis* E. A. SMITH, 1891 (o. d.)

**B385 *N. tosana* (ŌYAMA, 1943)**

Ibo-yuki-bane-gai (= Tosa-yuki-bane)

- Type locality: Tosa bay, southern Shikoku.
- Distribution: Kii peninsula and southwards, Tosa bay to Yakushima.
- Habitat: 100-200 m., coarse sand and stones.
- Original genus: *Limatula* (*Notolimea*).

□ Genus *Promantellum* IREDALE, 1939

Type species: *Promantellum parafragile* IREDALE, 1939 (o. d.)

**B386 *P. minor* (GRABAU & KING, 1928)**

- Type locality: 'Peitaiho' (Hopeh province, southwestern Liao-tung Gulf, China; from book title).
- Distribution: 'Honshū to Taiwan; Philippines, South

China Sea' (BERNARD *et al.*, 1993).

- Habitat: 120-550 m., sand.
- Original genus: *Lima* (as var. of *L. angulata*).

Order **OSTREOIDA FÉRUSSAC, 1822**

Suborder **OSTREINA FÉRUSSAC, 1822**

Superfamily **OSTREOIDEA WILKES, 1810**

Family **GRYPHAEIDAE VYALOV, 1936**

Subfamily **PYCNODONTEINAE STENZEL, 1959**

□ Genus ***Neopycnodonte* STENZEL, 1971**

Type species: *Ostrea cochlear* POLI, 1795 (o. d.)

B387 ***N. cochlear* (POLI, 1795)**

(= *Pycnodonta floribunda* MONTEROSATO, 1916; *Ostrea musashiana* YOKOYAMA, 1920; *O. hiranoi* BAKER & SPICER, 1930; *O. sedea setoensis* HABE, 1957-c)

Bekkō-gai (= Wan-gaki; Hana-gaki)

- Type locality: Atlantic Ocean.
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, East China Sea; Yellow Sea, Indo-Pacific, Atlantic Ocean.
- Habitat: intertidal to 250 m., left valve cemented to shells & stones.
- Original genus: *Ostrea*.

□ Genus ***Hyotissa* STENZEL, 1971**

Type species: *Mytilus hyotis* LINNAEUS, 1758 (o. d.)

B388 ***H. hyotis* (LINNAEUS, 1758)**

(= *Ostrea sinensis* GMELIN, 1791; *O. gigas* HUMPHREY, 1797 non THUNBERG, 1793; *O. nobilis* SOWERBY, 1871)

Shako-gaki

- Type locality: 'in Pelagi Gorgoniis'.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Indo-Pacific, Red Sea, West Indies.
- Habitat: subtidal to 30 m., attached to rocks and coral.
- Original genus: *Mytilus*.

□ Genus ***Parahyotissa* HARRY, 1985**

Type species: *Ostrea thomasi* MCLEAN, 1941 (o. d.)

B389 ***P. inermis* (SOWERBY II, 1871 in 1865-78)**

(= *Ostrea imbricata* LAMARCK, 1819 non GMELIN, 1791)

Kaki-tsubata

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, China, southeast Asia, Australia, Indo-Pacific.
- Habitat: intertidal to 50 m., left valve cemented to rocks and coral.
- Original genus: *Ostrea*.

B390 ***P. numisma* (LAMARCK, 1819 in 1815-22)**

(= *Ostrea hanleyi* SOWERBY II, 1871 in 1865-78; *O. inaequalis* SOWERBY II, 1871 in 1865-78; *O. thaanumi* DALL, BARTSCH & REHDER, 1938)

Hira-gaki

- Type locality: 'les mers de la Nouvelle Hollande' (Australian seas).
- Distribution: Amami islands and southwards ('Riu Kiu' HIRASE, 1932), ECP3-ECP2, P2, East China Sea; Philippines, South China Sea, Australia, Hawaii.
- Habitat: intertidal to 50 m., left valve cemented to rubble and coral.
- Original genus: *Ostrea*.

B391 ***P. chemnitzii* (HANLEY, 1846)**

(= *Ostrea chemnitzii elongata* GRABAU & KING, 1928 non BORN, 1778)

Beni-gaki (= Kemunitsu-gaki)

- Type locality: China.
- Distribution: Bōsō peninsula and southwards, P7-P5, (Tosa bay HIRASE, 1932), EC5, ECP4-ECP2, P2; Philippines, southeast Asia, tropical western Pacific.
- Habitat: intertidal to 100 m., left valve cemented to rocks and stones.
- Original genus: *Ostrea*.

□ Genus ***Pycnodonte* FISCHER von WALDHEIM, 1835**

Type species: *Pycnodonta radiata* FISCHER von WALDHEIM, 1835 (o. d.)

(= *Pliohyotissa* HARRY, 1985)

B392 ***Pycnodonte quercina* (SOWERBY II, 1871 in 1865-78)**

Beni-shibori-gaki

- Type locality: none designated.
- Distribution: 'Pacific coast, 25-35° N.' (ŌYAMA, 1961-c); 'eastern Pacific, Baja California' (HARRY, 1985).
- Original genus: *Ostrea*.

B393 ***Pycnodonte taniguchii* HAYAMI & KASE, 1993**

Ō-bekkō-gaki

- Type locality: 'W-arch' cave, Irabu island (Okinawa prefecture).
- Distribution: Okinawa (Irabu, Shimoji and Ie islands; 'Coral Hole' cave, Seragaki)
- Habitat: subtidal in caves.

Family **OSTREIDAE WILKES, 1810**

Subfamily **OSTREINAE WILKES, 1810**

(Refs.: Torigoe, 1981)

□ Genus ***Ostrea* LINNAEUS, 1758**

Type species: *Ostrea edulis* LINNAEUS, 1758 (by tautonymy)

B394 ***O. revularis* GOULD, 1861 in 1859-61**

( = *Ostrea paulucciae* CROSSE, 1869; *O. palmipes* SOWERBY II, 1871 in 1865-78; *Planostrea pestigris sensu* HARRY, 1985; *rivularis* auct.)

Kamo-no-ashi-gaki

• Type locality: 'China Seas, as indicated by shells adhering to it'.

• Distribution: Kii peninsula (Tanabe Bay), western Kyūshū (Ariake inland sea); Taiwan, Philippines, South China Sea, Indonesia (KARASAWA *et al.*, 1994).

• Habitat: intertidal to 20 m., rocks.

**Notes:** for the complex history of this name see KARASAWA *et al.* (1994).

**B395 *O. denselamellosa* LISCHKE, 1869 in 1868-73**

( = *O. auriculata* SOWERBY II, 1871 in 1865-78; *O. multicostata* SOWERBY II, 1871 in 1865-78)

Itabo-gaki (= Korobi-gaki)

• Type locality: '*prope Jedo et Nagasaki*' (near Tōkyō and Nagasaki).

• Distribution: Mutsu bay (Aomori prefecture) and southwards, P10-P5, Japan Sea (Oga peninsula, J4-J1), EC5, East China Sea; Korea, Yellow Sea, Taiwan, Hong Kong, China.

• Habitat: intertidal to 30 m. in bays left valve cemented to pebbles.

**B396 *O. futamiensis* SEKI, 1929**

Kuro-hime-gaki

• Type locality: off Kakogawa, Hyōgo prefecture (eastern Seto inland sea).

• Distribution: Tōkyō bay and southwards, Kii strait, Seto inland sea, western Kyūshū (Ariake inland sea; Ōmura bay).

• Habitat: intertidal in bays, left valve cemented to rocks and stones.

**B397 *O. lima* SOWERBY II, 1871 in 1865-78**

Yasuri-gaki

• Type locality: 'Sandwich Islands' (Hawaii).

• Distribution: 'Pacific coast at 32° N.' (ŌYAMA, 1961-b); Hawaii.

• Habitat: 200-600 m.

□ Genus ***Nanostrea* HARRY, 1985**

Type species: *Nanostrea exigua* HARRY, 1985 (o. d.)

Note: for discussion of this and the following genus see INABA (1995: Chiribotan, vol. 26(2): 37-43).

**B398 *N. exigua* HARRY, 1985**

( = *Ostrea deformis* LAMARCK, 1819 *non* LAMARCK, 1806)

Nagare-gaki (= Shiro-hime-gaki)

• Type locality: 'seas of Europe, etc, on other abandoned shells, most often in the interior of Pinnas' (erroneous. See HARRY, 1985).

• Distribution: Okinawa and southwards, ECP2, P2, East China Sea; Philippines, South China Sea, Philippines, Red Sea to Hawaii.

• Habitat: intertidal to 30 m., rocks and shells.

□ Genus ***Booneostrea* HARRY, 1985**

Type species: *Ostrea cucullina* DESHAYES, 1863 (o. d.)

**B399 *B. cucullina* (DESHAYES, 1863)**

( = *Ostrea sedea* IREDALE, 1939)

Chawan-gaki

• Type locality: Réunion island, Indian Ocean.

• Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; South China Sea, Philippines, Australia, Indo-Pacific, Indian Ocean.

• Habitat: intertidal to 5 m., left valve cemented to rocks, coral and shells.

• Original genus: *Ostrea*.

**Notes:** several authors (HARRY, 1985: 145; BERNARD *et al.*, 1993: 45 *etc.*) have cited the authorship of this species as DESHAYES, 1836 in error).

Subfamily **LOPHINAE VYALOV, 1936**

□ Genus ***Lopha* RÖDING, 1798**

Type species: *Mytilus cristagalli* LINNAEUS, 1758 (s. d. DALL, 1898)

**B400 *L. cristagalli* (LINNAEUS, 1758)**

( = *Ostrea townsendi* MELVILL, 1898)

Tosaka-gaki

• Type locality: '*in O. Indici Gorgoniis*'.

• Distribution: Tosa bay and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Celebes Sea, Red Sea, Indo-Pacific.

• Habitat: 5-30 m., on rocks and coral.

• Original genus: *Mytilus*.

□ Genus ***Alectryonella* SACCO, 1897**

Type species: *Ostrea plicatula* GMELIN, 1791

**B401 *A. plicatula* (GMELIN, 1791)**

( = *Ostrea cumingiana* DUNKER in PHILIPPI, 1846; *O. solida* SOWERBY II, 1871 in 1865-78; *O. dubia* SOWERBY II, 1871 in 1865-78)

Chichi-kake-gaki

• Type locality: '*in mari americano et mediterraneo*' (?Caribbean and Mediterranean seas; erroneous).

• Distribution: Amami Ōshima (HIRASE, 1932) and southwards, ECP3-ECP2, P2, East China Sea; Yellow Sea, Bo-hai, South China Sea, Hong Kong, Indo-Pacific.

• Habitat: subtidal to 5 m., on rocks.

• Original genus: *Ostrea*.

□ Genus ***Dendostrea* SWAINSON, 1835**

Type species: *Ostrea folium* LINNAEUS, 1758 (s. d. HERRMANNSEN, 1847)

**B402 *D. folia* (LINNAEUS, 1758)**

(= *Ostrea labulla* LAMARCK, 1819; *O. violacea* DESHAYES, 1863; *O. lentiginosa* SOWERBY II, 1871 in 1865-78)

Wani-gaki (= Wani-gai)

- Type locality: 'ad Jamaicam'.
- Distribution: Mie prefecture (MATSUMOTO, 1979) and southwards, P6-P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hong Kong, Hainan, Australia, Indo-Pacific.
- Habitat: 5-50 m., on rocks.
- Original genus: *Ostrea*.

**B403 *D. crenulifera* (SOWERBY II, 1871 in 1865-78)**

Nokogiri-gaki

- Type locality: 'Red Sea'.
- Distribution: Bōsō peninsula and southwards, Kii peninsula (HIRASE, 1932), P7-P5, Japan Sea (Oki islands TORIGOE, 1989; J2-J1), EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hainan, Indo-Pacific, Red Sea.
- Habitat: intertidal to 30 m., attached to rocks, coral and shells.
- Original genus: *Ostrea*.

□ Genus ***Anomiostrea* HABE & KOSUGE, 1966-b**

Type species: *Ostrea pyxidata* ADAMS & REEVE, 1850 non BORN, 1780 (o. d.; = *Anomiostrea coralliophila* HABE, 1975)

**B404 *A. coralliophila* HABE, 1975-a**

(= *Ostrea pyxidata* ADAMS & REEVE, 1850 in 1848-50 non BORN, 1778)

Sango-gaki

- Type locality: Zamboanga, Mindanao, Philippines.
- Distribution: Okinawa (Nago City; Setaka-jima; Kushi NAKAMINE & HABE, 1980); Philippines, South China Sea, Beibu gulf, China, Indonesia, Indo-Pacific.
- Habitat: intertidal to 30 m., cemented on coral reefs.

Subfamily **CRASSOSTREINAE TORIGOE, 1981**

□ Genus ***Crassostrea* SACCO, 1897**

Type species: *Ostrea virginica* GMELIN, 1791 (o. d.; ICZN op. 338)

**B405 *C. gigas* (THUNBERG, 1793)**

(= *Ostrea laperousi* SCHRENCK, 1862; *O. talienwhanensis* CROSSE, 1862; *O. denselamellosa* LISCHKE *sensu* ŌYAMA, 1920; *O. plicata* CHEMNITZ *sensu* ŌYAMA, 1920; *O. shikame* AMEMIYA, 1928; *O. elongata* AMEMIYA, 1928)

Magaki (= Naga-gaki)

- Type locality: Japan.
- Distribution: Kuril islands, OP, P10-P5, Japan Sea (J4-J1), EC5; Russia (southern Primoriye region

ARZAMASTSEV, 1997), Sakhalin, Korea, Yellow Sea, Bo-hai, China, southeast Asia.

- Habitat: intertidal to 5 m., in bays, left valve cemented to rocks and stones.
- Original genus: *Ostrea*.

**B406 *C. pestigris* (HANLEY, 1846-a)**

Neko-no-ashi-gaki

- Type locality: 'Isle of Luzon; on rocks' (Philippines).
- Distribution: western Seto inland sea (Onomichi, Hiroshima prefecture; off Hakatajima, Ehime prefecture KARASAWA *et al.*, 1994), western and southern Kyūshū, East China Sea; South China Sea, Hong Kong, Philippines.
- Habitat: intertidal to 20 m., rocks and coral.
- Original genus: *Ostrea*.

**Notes:** for the complex history of this name see KARASAWA *et al.* (1994).

**B407 *C. nipponica* (SEKI, 1934)**

(= *Ostrea multistriata* auct. non HANLEY, 1846; *O. circumpecta* auct. non PILSBRY, 1904)

Iwa-gaki

- Type locality: 'Harima' (eastern Seto inland sea).
- Distribution: Mutsu bay (Aomori prefecture) and southwards, Tsugaru peninsula, P10-P5, Japan Sea (J4-J1), EC5; Yellow Sea.
- Habitat: subtidal to 20 m., left valve cemented to rocks.
- Original genus: *Ostrea*.

**B408 *C. ariakensis* (FUJITA in WAKIYA, 1929)**

(= *Ostrea ariakensis* FUJITA, 1913 *nom. nud.*; *O. rivularis* auct. non LISCHKE, 1869)

Suminoe-gaki

- Type locality: Ariake inland sea, western Kyūshū.
- Distribution: Kii strait (central Honshū), Ōsaka bay, Seto inland sea, western Kyūshū (Ariake inland sea; Ōmura bay); Yellow Sea.
- Habitat: intertidal, mud and gravel in bays.
- Original genus: *Ostrea*.

**B409 *C. lineata* (RÖDING, 1798)**

(= *Ostrea bilineata* RÖDING, 1798; *O. orientalis* DILLWYN, 1817)

Shima-gaki

- Type locality: 'Asia'.
- Distribution: Okinawa islands and southwards, ECP2, P2; western Pacific.
- Habitat: intertidal to 20 m., coral.
- Original genus: *Ostrea*.

**B410 *C. echinata* (QUOY & GAIMARD, 1835)**

(= *Ostrea vitrefacta* SOWERBY II, 1871 in 1865-78)

Nise-magaki

- Type locality: 'l'île Amboine' (Ambon island, Indonesia).
- Distribution: Amami islands and southwards, ECP3-

ECP2, P2; Philippines, Indonesia, western Pacific.

- Habitat: intertidal to 20 m., left valve cemented to rocks.
- Original genus: *Ostrea*.

□ Genus *Saccostrea* DOLLFUS & DAUTZENBERG, 1920

Type species: *Ostrea saccellus* DUJARDIN, 1835 (mt.; = *Ostrea cucullata* BORN, 1778)

B411 *S. cucullata* (BORN, 1778)

(= *Ostrea circumscuta* GOULD, 1850; *O. saxatile* MARTENS, 1863; *O. attenuata*, *O. barclayana*, *O. lactea*, all SOWERBY II, 1871 in 1865-78; *O. pseudocucullata* FUCHS, 1883)

Kanmuri-gaki

- Type locality: none designated.
- Distribution: East China Sea, P2; Taiwan and southwards, Hong Kong, Hainan, Philippines, Moluccas, Australia to Red Sea, Indo-Pacific.
- Habitat: intertidal to 5 m., rocks.
- Original genus: *Ostrea*.

B412 *S. mordax* (GOULD, 1850 in 1846-50)

(= *Saxostrea amasa* IREDALE, 1939)

Ohaguro-gaki

- Type locality: 'Feejee (Fiji) Islands'.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, tropical Indo-Pacific.
- Habitat: intertidal, left valve cemented to rocks.
- Original genus: *Ostrea*.

B413 *S. kegaki* TORIGOE & INABA, 1981

(= *Ostrea cucullata* BORN *sensu* LISCHKE, 1871; *O. spinosa* DESHAYES *sensu* IWAKAWA, 1915; *O. echinata* QUOY & GAIMARD *sensu* IWAKAWA, 1915; *Ostrea echinata sensu* S. HIRASE, 1930; KURODA, 1930; HABA, 1959, 1972; TAKI, 1960 *non* QUOY & GAIMARD, 1835)

Ke-gaki

- Type locality: Matsuga-hama, Mukaishima, Seto inland sea (Hiroshima prefecture).
- Distribution: Mutsu bay (Aomori prefecture) and southwards, P10-P5, Japan Sea (Oga peninsula, J4-J1), EC5, EC4 to Amami islands.
- Habitat: intertidal, rocks.

B414 *S. glomerata* (GOULD, 1850 in 1846-50)

Niyū-jiirando-gaki

- Type locality: New Zealand.
- Distribution: Kii peninsula (Shirahama ŌGAKI, 1997), Okinawa islands (INABA, 1993); Australia, New Zealand.
- Habitat: intertidal, rocks.
- Original genus: *Ostrea*.

B415 *S. malabonensis* (FAUSTINO, 1932)

- Type locality: 'Malabon, Rizal, Philippines' (northern

Manila).

- Distribution: Iriomote island (Okinawa prefecture) and southwards (INABA, 1993); Philippines.
- Original genus: *Ostrea*.

□ Genus *Striostrea* VYALOV, 1936

Type species: *Ostrea procellosa* LAMY, 1929 (o. d.; = *Ostrea margaritacea* LAMARCK, 1819)

B416 *S. parasitica* (GMELIN, 1791)

(= *Ostrea mytiloides* LAMARCK, 1819; *O. subtrigona* SOWERBY, 1871)

Kuro-heri-gaki

- Type locality: 'in mari indico et atlantico' (Indian and Atlantic Oceans; latter is erroneous).
- Distribution: Ishigaki islands (Okinawa) and southwards (INABA, 1993); South China Sea, Hainan, Philippines, Indonesia, Australia.
- Habitat: intertidal on *Rhizophora*.
- Original genus: *Ostrea*.

B417 *S. circumpecta* (PILSBRY, 1904-c)

(= *Ostrea multistriata* PILSBRY, 1871)

Koke-goromo

- Type locality: 'Hirado, Hizen' (Hirado island, Nagasaki prefecture, western Kyūshū).
- Distribution: Mutsu bay (Aomori prefecture) and southwards, P10-P5, Japan Sea (Oga peninsula, J4-J1), EC5, East China Sea; Korea, Yellow Sea, Taiwan, China.
- Habitat: subtidal to 30 m., left valve cemented to rocks.
- Original genus: *Ostrea*.

□ Genus *Pretostrea* IREDALE, 1939

Type species: *Ostrea (Pretostrea) bresia* IREDALE, 1939 (o. d.)

B418 *P. rosacea* (DESHAYES in LAMARCK, 1836)

Kanoko-gaki

- Type locality: China.
- Distribution: Sagami bay and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines.
- Habitat: subtidal to 30 m., left valve cemented to rocks, stones and shells.
- Original genus: *Ostrea*.

B419 *P. affinis* (SOWERBY II, 1871 in 1865-78)

Kogane-gaki

- Type locality: 'Diego Garcia, near the (sic) Mauritius'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Indian Ocean.
- Habitat: subtidal to 20 m., rocks.
- Original genus: *Ostrea*.

Superfamily PLICATULOIDEA WATSON, 1930

Family PLICATULIDAE WATSON, 1930

□ Genus *Plicatula* LAMARCK, 1801



Type species: *Spondylus plicatus* LINNAEUS, 1767 (s. d. SCHMIDT, 1818)

**B420 *P. plicata* (LINNAEUS, 1767)**

(= *P. ramosa* LAMARCK, 1819)

Eda-une-ishigaki-modoki

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hong Kong, Hainan, Red Sea, Indian Ocean, Indonesia, Indo-Pacific.
- Habitat: 5-50 m., rocks and coral.
- Original genus: *Spondylus*.

**B421 *P. simplex* GOULD, 1861 in 1859-61**

(= *P. cuneata* DUNKER, 1877)

Nezumi-no-te-gai

- Type locality: 'common at Kagosima Bay (Kagoshima, southern Kyūshū) and Simoda (Shimoda, Izu peninsula, central Honshū), 5-20 fathoms'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Sado island, J3-J1), EC5, ECP4-ECP2, P2, East China Sea; South China Sea, Hainan, Hong Kong, southern China.
- Habitat: 5-50 m., sand and rubble.

**B422 *P. australis* LAMARCK, 1819 in 1815-22**

Kasuri-ishigaki-modoki

- Type locality: 'les mers de la Nouvelle Hollande, à l'île Fourneau' (Fourneau islands, northeastern Tasmania, Australia).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hong Kong, Indo-Pacific.
- Habitat: intertidal to 20 m., rocks and gravel.

**B423 *P. horrida* DUNKER, 1882**

(= *P. rugosa* DUNKER, 1877 non LAMARCK, 1819; *P. irregularis* DUNKER, 1882)

Ishigaki-modoki (= Naga-ishigaki-modoki)

- Type locality: '*e mari Japonico et Chinensi*' (Japanese and Chinese seas).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, East China Sea, P2; Philippines, South China Sea, tropical western Pacific.
- Habitat: 10-20 m., rubble and coral.

**B424 *P. chinensis* MÖRCH, 1853**

(= *P. imbricata* MENKE, 1843 non KOCH & DUNKER, 1837)

Chūka-ishigaki-modoki

- Type locality: China Sea.
- Distribution: 'Honshū to Taiwan, East China Sea; Philippines, South China Sea, Indo-Pacific' (BERNARD *et*

*al.*, 1993)

- Habitat: intertidal to 20 m., on rocks.

□ Genus *Spiniplicata* HABE, 1977-a

Type species: *Plicatula muricata* SOWERBY II, 1873 (o. d.)

**B425 *S. muricata* (SOWERBY II, 1873)**

Mogura-no-te-gai

- Type locality: 'China Sea'.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2, East China Sea; South China Sea, Hong Kong, southern China.
- Habitat: 5-350 m., rubble and sand.
- Original genus: *Plicatula*.

Superfamily DIMYOIDEA FISCHER, 1886

Family DIMYIDAE FISCHER, 1886

(Refs.: Habe, 1971)

□ Genus *Dimya* ROUALT, 1850

Type species: *Dimya deshayesiana* ROUALT, 1850 (o. d.)

**B426 *D. filipina* BARTSCH, 1913**

(= *D. radiata* KURODA, 1928; *D. radiata takii* KURODA, 1932 in 1929-35)

Ishi-gaki (= Jimia-gai; Taki-jimia-gai)

- Type locality: 'Albatross' sta. 5217, off Anima Sola island (Burias, Philippines): 13° 20' N., 123° 14' 15" E., 192 m.
- Distribution: Sagami bay and southwards, Izu islands, P11, northern Ogasawara islands, P6-P5, Japan Sea (Wakasa bay, J2-J1), EC5, East China Sea, P2; Philippines.
- Habitat: 20-300 m., attached to gravel and shells.

**B427 *D. japonica* HABE, 1971**

(= *D. lima* BARTSCH *sensu* HABE, 1951-a; 1958-a; 1958-d; 1961-a; 1964-c; 1965-d; OKUTANI, 1968)

Ginpaku-ishi-gaki

- Type locality: Tomioka, Amakusa island, western Kyūshū.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Toyama bay, J3-J1), EC5, East China Sea, ECP4-ECP2.
- Habitat: 20-600 m., right valve cemented to substrate on sand, gravel and shell bottoms.

Suborder PECTININA WALLER, 1978

Superfamily PECTINOIDEA WILKES, 1810

(Refs.: Dijkstra, 1995; Dijkstra & Kastoro, 1997)

Family PECTINIDAE WILKES, 1810

(Refs.: Rombouts, 1991)

Subfamily CHLAMYDINAE TREPPNER, 1922

(= CHLAMINAE MASUDA, 1962)

□ Genus *Chlamys* RÖDING, 1798

Type species: *Pecten islandicus* MÜLLER, 1776 (s. d. HERRMANNSEN, 1847)

Subgenus *Chlamys s. str.*

B429 *C. (C.) islandicus islandicus* (MÜLLER, 1776)  
(= *Ostrea cinnebarina* BORN, 1778; *Pecten paleii* CONRAD, 1831; *P. fabricii* PHILIPPI, 1844; *C. insculpta* VERRILL, 1897; *Pecten costellata* VERRILL, 1897; *C. scotica* STIMPSON, 1910)

Ōrora-nishiki (= Hokkyoku-nishiki)

- Type locality: 'I. Hörpudiskur' (Iceland).
- Distribution: northern Japan Sea (J5-J6), northern Hokkaidō, P10, OP, Okhotsk Sea; Bering Sea, Arctic, northern Atlantic Ocean.
- Habitat: 30-100 m., sandy mud.
- Original genus: *Pecten*.

B430 *C. (C.) islandicus erythrocomatus* (DALL, 1867)  
Kamio-nishiki

- Type locality: 'Albatross' sta. 5021, Okhotsk Sea; 73 fms.
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, P9-P10, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J5), Hokkaidō, OP, Kuril islands, Okhotsk Sea; Sakhalin, Bering Sea.
- Habitat: 50-500 m., sand.
- Original genus: *Pecten* (*Chlamys*).

B431 *C. (C.) islandicus beringianus* (MIDDENDORFF, 1849)

(= *Pecten strategus* DALL, 1898-a)

Bēringu-nishiki (= Futo-une-nishiki)

- Type locality: Bering Sea.
- Distribution: Kuril islands, Okhotsk Sea to Bering Sea; Alaska.
- Habitat: 50-150 m., sandy mud.

B432 *C. (C.) islandicus hindsii* (CARPENTER, 1864)

(= *C. hericeus navarchus* DALL, 1898-a)

Toba-nishiki (= Murasaki-toba-nishiki)

- Type locality: 'Vancouver Island' (British Columbia, Canada).
- Distribution: Hokkaidō and northwards, P10, OP, Kuril islands, Okhotsk Sea; Alaska to mid-California.
- Habitat: 50-150 m., sandy mud.
- Original genus: *Pecten*.

B433 *C. (C.) chosenuca* KURODA, 1932 in 1929-35

Chōsen-nishiki

- Type locality: 'Seishin, Korea' (Ch'ongjin, North Korea)
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, P9-P10, Japan Sea; eastern Korea to Primoriye region (Japan Sea coast of Russia).
- Habitat: 100-200 m., sandy mud.

B434 *C. (C.) hastatus hericius* (GOULD, 1850 in 1846-50)

(= *Chlamys albidus* DALL in ARNOLD, 1906)

Irakusa-nishiki (= Kita-no-nishiki)

- Type locality: Juan de Fuca strait, Washington State,

northwestern USA.

- Distribution: OP, Kuril islands and northwards, Okhotsk Sea; Bering Sea, Alaska, northwestern USA.
- Habitat: subtidal to 40 m., sandy mud.
- Original genus: *Pecten*.

B435 *C. (C.) psara* (MELVILL, 1888-b)

- Type locality: 'Japan'.
- Distribution: East China Sea, 'Okinawa to Honshū' (BERNARD *et al.*, 1993).
- Habitat: 20-60 m., sand and rocks.
- Original genus: *Pecten*.

B436 *C. (C.) cloacata* (REEVE, 1853 in 1843-65)

Mikawa-nishiki

- Type locality: 'Philippine Islands'.
- Distribution: 'Mikawa, Japan; west Pacific' (ROMBOUTS, 1991).
- Original genus: *Pecten*.

B437 *C. (C.) teilhardi* (GRABAU & KING, 1928)

- Type locality: 'Peitaiho' (Hopeh province, southwestern Liao-tung Gulf, China; from book title).
- Distribution: East China Sea; intertidal to 10m, sand and gravel (BERNARD *et al.*, 1993).
- Original genus: *Pecten*.

B438 *C. (C.) mollita* (REEVE, 1853 in 1843-65)

(= *Chlamys grossiana* IREDALE, 1939)

Yowa-nishiki

- Type locality: 'Japan'.
- Distribution: 'Japanese waters; Great Barrier Reef to northern Queensland' (ROMBOUTS, 1991).
- Original genus: *Pecten*.

Subgenus *Swiftopecten* HERTLEIN, 1935

Type species: *Pecten swiftii* BERNARDI, 1858 (o. d.)

B439 *C. (Sw.) swiftii* (BERNARDI, 1858-b)

(= *Pecten tigerrinus* YOKOYAMA, 1920)

Ezo-ginchaku

- Type locality: 'la baie Nicolas, dans la Manche de Tartarie' (Nicolas Bay, western Tatar Strait, northern Japan Sea).
- Distribution: northeastern Honshū (Fukushima prefecture) and northwards, P8-P10, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J4), Hokkaidō, OP, Kuril islands, Okhotsk Sea; northern Korea, Primoriye region (Japan Sea coast of Russia), Sakhalin, Alaska.
- Habitat: subtidal to 275 m., attached by byssus to rocks and stones.
- Original genus: *Pecten*.

Subgenus *Scaeoclamys* IREDALE, 1929

Type species: *Pecten lividus* LAMARCK, 1819 (o. d.)

B440 *C. (Sc.) livida* (LAMARCK, 1819 in 1815-22)

( = *Pecten foliacea* QUOY & GAIMARD, 1835; *P. tegula* WOOD, 1842; *Scaechlamys peroniana* IREDALE, 1939)  
Hiiragi-nadeshiko

- Type locality: 'les mers de la Nouvelle Hollande, au port du Roi Georges' (King George sound, Western Australia).
- Distribution: Amami islands and southwards, ECP4-ECP2, P2; Philippines, Australia.
- Original genus: *Pecten*.

B441 *C. (Sc.) irregularis* (SOWERBY II, 1842 in 1842-87)

( = *Pecten cuneatus* REEVE, 1853; *P. limatulus* REEVE, 1853; *P. multicolor* MELVILL & STANDEN, 1907)

Nadeshiko-gai

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hong Kong, Australia, Indo-Pacific.
- Habitat: intertidal to 150 m., rubble.
- Original genus: *Pecten*.

Subgenus *Coralichlamys* IREDALE, 1939

Type species: *Coralichlamys acroporicola* IREDALE, 1939 (o. d.; = *Pecten madreporarum* SOWERBY II, 1842)

B442 *C. (Co.) madreporarum* (SOWERBY II, 1842 in 1842-87)

( = *Coralichlamys acroporicola* IREDALE, 1939)

Sango-nadeshiko

- Type locality: 'Red Sea'.
- Distribution: Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; Philippines, South China Sea, Hong Kong, Hainan, Australia.
- Habitat: intertidal to 150 m., rocks and gravel.
- Original genus: *Pecten*.

B443 *C. (Co.) jousseaumei* (BAVAY, 1904)

( = *Chlamys parirregularis* NOMURA & HATAI, 1940)

Niku-iro-nadeshiko

- Type locality: Japan.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2; South China Sea, Hainan.
- Habitat: 50-600 m., coarse sand.

B444 *C. (Co.) empressae* KURODA & HABE in KURODA *et al.*, 1971

Misono-nadeshiko

- Type locality: Sagami bay, central Honshū.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Sado island, J3-J1), EC5; South China Sea, Hainan, Indonesia.
- Habitat: 50-600 m., coarse sand and stones.

B445 *C. (Co.) princessae* KURODA & HABE in

KURODA *et al.*, 1971

Tsuzure-nadeshiko

- Type locality: Sagami bay, central Honshū.
- Distribution: Sagami bay and westwards, P6-P5, EC5.
- Habitat: 50-200 m., coarse sand and stones.

Subgenus *Mimachlamys* IREDALE, 1929

Type species: *Pecten asperrimus* LAMARCK, 1819 (o. d.)

B446 *C. (M.) nobilis* (REEVE, 1852 in 1843-65)

( = *Pecten crassicosatus auct. non* SOWERBY, 1842 *non* DUNKER, 1848; *P. crassicosatus maxima* LISCHKE, 1869)

Hiōgi

- Type locality: 'Japan'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2; South China Sea, Hainan, Hong Kong, western Pacific.
- Habitat: subtidal to 20 m., attached to rocks.
- Original genus: *Pecten*.

B447 *C. (M.) gloriosa* (REEVE, 1852)

( = *Mimachlamys subgloriosa* IREDALE, 1939)

Arafura-hiōgi (= Hiōgi-modoki)

- Type locality: 'Moreton Bay, Australia'.
- Distribution: Okinawa (KURODA, 1960) and southwards, P2; Philippines, South China Sea, Hainan, Australia.
- Habitat: 70-110 m., mud and sand.
- Original genus: *Pecten*.

**Notes:** described as *Pecten nobilis* in text; corrected to *P. gloriosa* in index.

B448 *C. (M.) senatoria* (GMELIN, 1791)

( = *Ostrea citrina* GMELIN, 1791; *Pecten norvegica* RÖDING, 1798; *P. aurantius, florens, miniaceus*, all LAMARCK, 1819; *P. similis* BAIRD, 1873; *P. (Chlamys) senatorius var articulata* DAUTZENBERG & BAVAY, 1912; *Mimachlamys ellochena* IREDALE, 1939)

Hime-hiōgi

- Type locality: 'in Oceano indico' (Indian Ocean).
- Distribution: southern Kyūshū and southwards, ECP4-ECP2, P2; Philippines, Australia, Red Sea, Indo-Pacific.
- Habitat: intertidal to 20 m., attached by byssus to rocks and stones.
- Original genus: *Ostrea*.

B449 *C. (M.) albolineata* (SOWERBY II, 1842 in 1842-87)

Shiro-suji-nadeshiko

- Type locality: 'Guimaras, Philippines'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, South China Sea, Hainan.
- Habitat: intertidal to 100 m., coarse sand and mud.
- Original genus: *Pecten*.

**B450 *C. (M.) pelseeneri* DAUTZENBERG & BAVAY, 1912**

(= *Pecten rugosus* SOWERBY II, 1842 non LAMARCK, 1819; *P. asperulatus* ADAMS & REEVE, 1850 in 1848-50 non MÜNSTER in GOLDFUSS, 1833 nec MCCOY in GRIFFITH, 1844)

Hinano-hiōgi (= Okamoto-nishiki)

- Type locality: 'Bureas' (Burias island, Philippines)
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2, East China Sea; South China Sea.
- Habitat: intertidal to 50 m., coarse sand and stones.

**B451 *C. (M.) cruentata* (REEVE, 1853 in 1843-65)**

Kasuri-hiōgi

(= *Pecten lentiginosus* REEVE, 1853; *P. effulgens* REEVE, 1853; *P. raffrayi* JOUSSEAUME, 1886)

- Type locality: 'Cape Upstart, North Australia' (northern Queensland).
- Distribution: Mie prefecture and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Beibu gulf, South China Sea, Borneo, Indo-Pacific.
- Habitat: intertidal to 50 m., coarse sand.
- Original genus: *Pecten*.

**B452 *C. (M.) cristularis* (ADAMS & REEVE, 1850 in 1848-50)**

Une-shige-nishiki

- Type locality: 'Eastern Seas'.
- Distribution: East China Sea; South China Sea, Taiwan, 20-150 m., coarse sand & coral (BERNARD *et al.*, 1993).

Subgenus *Azumapecten* HABE, 1977-a

Type species: *Pecten farreri* JONES & PRESTON, 1904 (o. d.)

**B453 *C. (A.) farreri farreri* (JONES & PRESTON, 1904)**

(= *Pecten laetus* GOULD, 1861 non GOULD, 1851; *C. (A.) farreri nipponensis* KURODA, 1932 in 1929-35; *P. farreri sensu* HABE, 1971-a err.)

Azuma-nishiki (= Kasumi-nishiki)

- Type locality: Shandong, China.
- Distribution: Hokkaidō (Hakodate), P10-P5, eastern Kyūshū, EC5, northern East China Sea, Japan Sea (J1-J4), OP, Kuril islands, Okhotsk Sea; Yellow Sea, Korea, Russia (southern Primoriye region near Khasan ARZAMASTSEV, 1997).
- Habitat: 15-60 m., attached by byssus to rocks and stones.
- Original genus: *Pecten*.

**B454 *C. (A.) squamata* (GMELIN, 1791)**

(= *Pecten rastellum* LAMARCK, 1819)

Nishiki-gai

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5,

Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hainan, Beibu gulf, Indo-western Pacific.

- Habitat: intertidal to 50 m., attached by byssus to rocks and stones.
- Original genus: *Ostrea*.

**B455 *C. (A.) larvata* (REEVE, 1853 in 1843-65)**

(= *Pecten squamosa auct. non* GMELIN, 1791; *P. hybridus* LAMARCK, 1819 non GMELIN, 1791; *P. smegmatus* DALL, 1926; *Chlamys ootanii* AZUMA, 1960) Ruykyu-nadeshiko (= Ōtani-nadeshiko)

- Type locality: 'Philippine Islands'.
- Distribution: Kii peninsula and southwards, P5, southern Kyūshū, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, tropical Pacific.
- Habitat: intertidal to 20 m., rubble and coarse sand.
- Original genus: *Pecten*.

**B456 *C. (A.) lemniscata* (REEVE, 1853 in 1843-65)**

Watazoko-nadeshiko

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, East China Sea, P2; Philippines, South China Sea, Red Sea, western Pacific.
- Habitat: 30-300 m., fine sand.
- Original genus: *Pecten*.

□ Genus *Mirapecten* DALL, BARTSCH & REHDER, 1938

Type species: *Mirapecten thaanumi* DALL, BARTSCH & REHDER, 1938 (o. d.)

**B457 *M. mirificus* (REEVE, 1853 in 1843-65)**

Tae-nishiki

- Type locality: 'Amboyna' (Ambon island, Indonesia).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, East China Sea, P2; South China Sea, Philippines, tropical Pacific.
- Habitat: subtidal to 50 m., coarse sand and stones.
- Original genus: *Pecten*.

□ Genus *Semipallium* JOUSSEAUME in LAMY, 1928

Type species: *Pecten tigris* LAMARCK, 1819 (o. d.)

**B458 *S. tigris* (LAMARCK, 1819 in 1815-22)**

Nishiki-ōgi

- Type locality: 'l'Océan indien?' (Indian Ocean?).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, South China Sea, Hainan, Australia, tropical Pacific.
- Habitat: 5-40 m., rubble and sand.
- Original genus: *Pecten*.

**B459 *S. fulvicostatum* (ADAMS & REEVE, 1858)**

(= *Pecten luculenta* REEVE, 1853; *P. dringi* REEVE,

1853)

Tsuzure-no-nishiki (= Shirochō-nishiki)

- Type locality: 'Sooloo Archipelago' (southern Philippines).
- Distribution: Izu islands and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, South China Sea, Hainan, Philippines, Australia, tropical western Pacific.
- Habitat: 10-50 m., rubble.
- Original genus: *Pecten*.

B460 *S. diana* (CRANDALL, 1979)

Daiana-nadeshiko

- Type locality: Okinawa; ± 30 m., coral rubble bottom.
- Distribution: Amami islands and southwards, ECP3-ECP2; Philippines, Indonesia, Solomon islands (DIJKSTRA & KASTORO, 1997).
- Habitat: 10-50 m., fine sand.

□ Genus *Comptopallium* IREDALE, 1939

Type species: *Comptopallium pauciplicatum* IREDALE, 1939 (o. d.)

B461 *C. radula* (LINNAEUS, 1758)

(= *Pecten argenteus* REEVE, 1853)

Ryūkyū-ōgi

- Type locality: 'in *O. Indico*' (Indian Ocean).
- Distribution: Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; Philippines, South China Sea, Beibu gulf, Hainan, Moluccas, Indo-Pacific.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Ostrea*.

□ Genus *Bractechlamys* IREDALE, 1939

Type species: *Bractechlamys evecta* IREDALE, 1939 (o. d.)

B462 *B. aurantiaca* (ADAMS & REEVE, 1850 in 1848-50)

Nankai-nishiki

- Type locality: 'China Sea'.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; South China Sea, tropical Pacific.
- Habitat: intertidal to 25 m., rocks.
- Original genus: *Pecten*.

B463 *B. quadrilirata* (LISCHKE, 1870 in 1868-73)

(= *Pecten pertenuis* DUNKER, 1879)

Tajima-nishiki

- Type locality: 'Nagasaki' (western Kyūshū).
- Distribution: Izu peninsula and southwards, P6-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2; Philippines, South China Sea, Hainan.
- Habitat: 5-50 m., coarse sand and stones.
- Original genus: *Pecten*.

B464 *B. schmeltzii* (KOBELT, 1888 in KÜSTER &

KOBELT 1842-88)

Yagasuri-hiyoku

- Type locality: 'an den Viti-Inseln' (Fiji).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; South China Sea, Hainan, tropical Pacific.
- Habitat: intertidal to 20 m., coarse sand and stones.
- Original genus: *Pecten*.

B465 *B. teramachii* (WEBB, 1956)

Okinawa-nadeshiko (= Okinawa-nishiki)

- Type locality: reverse side of coral reef off Naha City, Okinawa; 2-5 fms.
- Distribution: Okinawa and southwards, East China Sea; Taiwan.
- Habitat: 5-10 m., attached to rocks and stones.
- Original genus: *Pecten* (*Chlamys*).

□ Genus *Juxtamusium* IREDALE, 1939

Type species: *Juxtamusium oblectatum* IREDALE, 1939 (o. d.; = *Pecten maldivensis* E. A. SMITH, 1903)

B466 *J. maldivensis* (E. A. SMITH, 1903-a)

(= *J. oblectatum* IREDALE, 1939)

Marujibu-nishiki

- Type locality: Maldive islands (Addu atoll, 5-40 fms.; Kolumadulu atoll, 1-36 fms.; Mulaku atoll, 4-42 fms.)
- Distribution: Kii peninsula (Cape Shio), Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indian Ocean to Marshall islands.
- Habitat: 5-20 m., on coral reefs.
- Original genus: *Pecten*.

□ Genus *Gloriopallium* IREDALE, 1939

Type species: *Ostrea pallium* LINNAEUS, 1758 (o. d.) (= *Gloriopallium* IREDALE *sensu* HABE, 1977-a, *Gloriopallium* IREDALE *sensu* BERNARD *et al.*, 1993)

B467 *G. pallium* (LINNAEUS, 1758)

(= *Ostrea regia* GMELIN, 1791; *Pecten regius* BOSC, 1801; *P. novaeguinae* TENISON-WOODS, 1878)

Chisara-gai (= Ryūkyū-hiōgi)

- Type locality: 'in *O. australiore* & *Indico*' (southern and Indian Oceans).
- Distribution: Mie prefecture (Cape Miki, 5-10 m. MATSUMOTO, 1979) and southwards, P6-P5, southern Kyūshū, ECP4-ECP2, P2; Philippines, Moluccas, South China Sea, Indo-Pacific.
- Habitat: subtidal to 20 m., rocks.
- Original genus: *Ostrea*.

B468 *G. speciosum* (REEVE, 1853 in 1843-65)

Ōshima-hiōgi

- Type locality: 'Philippine Islands'.
- Distribution: Mie prefecture (off Kumano, 20 m. MATSUMOTO, 1979) and southwards, P6-P5, southern Kyūshū, ECP4-ECP2, P2; Indo-Pacific.

- Habitat: subtidal to 20 m., rocks.
- Original genus: *Pecten*.

□ Genus *Annachlamys* IREDALE, 1939

Type species: *Pecten leopardus* REEVE, 1853 (o. d.)

B469 *A. reevei* (ADAMS & REEVE, 1850 in 1848-50)

Nishiki-hiyoku

- Type locality: 'China Sea'.
- Distribution: Izu islands and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, southeast Asia, tropical Pacific.
- Habitat: 10-50 m., coarse sand and stones.
- Original genus: *Pecten*.

B470 *A. macassarensis* (CHENU, 1845 in 1843-53)

(= *Pecten solaris* auct. non BORN, 1778)

Kodai-nishiki-hiyoku

- Type locality: Macassar (straits), Indonesia.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, South China Sea, Celebes Sea, Indonesia, tropical western Pacific.
- Habitat: 10-30 m., coarse sand and stones.
- Original genus: *Pecten*.

□ Genus *Cryptopecten* DALL, BARTSCH & REHDER, 1938

Type species: *Cryptopecten alli* DALL, BARTSCH & REHDER, 1938 (o. d.; = *Pecten tissotii* BERNARDI, 1858)

B471 *C. tissotii* (BERNARDI, 1858-b)

(= *C. alli* DALL, BARTSCH & REHDER, 1938)

Hira-hiyoku

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, Yellow Sea, South China Sea, Hawaii.
- Habitat: 50-200 m., fine sand and mud.
- Original genus: *Pecten*.

B472 *C. vesiculosus* (DUNKER, 1877)

(= *Pecten hastingsii* MELVILL, 1888)

Hiyoku-gai

- Type locality: 'Japan' (from article title).
- Distribution: northeastern Honshū (Fukushima prefecture) and southwards, P8-P5, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea, P2.
- Habitat: 50-600 m., coarse sand and shells.
- Original genus: *Pecten*.

B473 *C. bernardi* (PHILIPPI, 1851 in 1851-2)

(= *Pecten nux* REEVE, 1853)

Isasa-hiyoku

- Type locality: none designated.
- Distribution: Izu islands and southwards, P6-P5, EC5,

ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Indo-Pacific to Tahiti.

- Habitat: 10-100 m., fine sand.
- Original genus: *Pecten*.

B474 *C. oweni* (GREGORIO, 1884-b)

(= *Pecten pictus* SOWERBY II, 1842 non DESHAYES in LABORDE, 1830)

Murakumo-hiyoku

- Type locality: New Caledonia.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, tropical Pacific.
- Habitat: intertidal to 20 m., rubble.
- Original genus: *Pecten*.

B475 *C. trifida* (DUNKER, 1877)

(= *Pecten jickelii* DUNKER, 1882)

Mitsu-mizo-nishiki

- Type locality: 'Japan' (from article title).
- Distribution: 'Japan' (ROMBOUTS, 1991).
- Original genus: *Pecten*.

B476 *C. complanus* WANG, 1983

- Type locality: East China Sea: 31° 05' N., 128° 00' E.
- Distribution: East China Sea (BERNARD *et al.*, 1993; ROMBOUTS, 1991).

B477 *C. bullatus* (DAUTZENBERG & BAVAY, 1912)

Kazari-hiyoku

- Type locality: Sulu Archipelago (southern Philippines).
- Distribution: off Chōshi (central Honshū), west off Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986), Izu islands, Tosa bay (ROMBOUTS, 1991); western, southwestern and central Pacific, western Indian Ocean (DIJKSTRA & KASTORO, 1997).
- Original genus: *Pecten* (*Chlamys*).

□ Genus *Haumea* DALL, BARTSCH & REHDER, 1938

Type species: *Haumea juddi* DALL, BARTSCH & REHDER, 1938 (o. d.)

B478 *H. inaequalvis* (SOWERBY II, 1842 in 1842-87)

(= *Pecten loxeoides* KOBELT in KÜSTER & KOBELT, 1842-88)

Urajiro-hiyoku

- Type locality: 'Philippine islands'.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, South China Sea, Indonesia, 'western and northeastern Indian Ocean, western, southwestern and central Pacific' (DIJKSTRA & KASTORO, 1997).
- Habitat: 10-80 m., sand.
- Original genus: *Pecten*.

□ Genus *Decatopecten* SOWERBY II, 1839

Type species: *Ostrea plica* LINNAEUS, 1758 (mt.)  
( = *Decadopecten* SWAINSON, 1840)

B479 *D. plicus* (LINNAEUS, 1758)

( = *Pecten subplicatus* SOWERBY II, 1842)

Hina-kinchaku

- Type locality: 'in *O. indico*' (Indian Ocean).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines; South China Sea, western Pacific, Red Sea.
- Habitat: intertidal to 50 m., coarse sand and stones; coral.
- Original genus: *Ostrea*.

B480 *D. striatum* (SCHUMACHER, 1817)

( = *Chlamys (Decatopecten) plica sensu* KURODA, 1930)

Kinchaku-gai

- Type locality: none designated.
- Distribution: northeastern Honshū (Fukushima prefecture) and southwards, P8-P5, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea; South China Sea, Hong Kong, Philippines, Indonesia.
- Habitat: intertidal to 50 m., coarse sand and stones.
- Original genus: *Pallium*.

B481 *D. amiculum* (PHILIPPI, 1851 in 1851-2)

( = *Pecten flabelloides* REEVE, 1852)

Ryūkyū-kinchaku

- Type locality: 'Madagascar'.
- Distribution: Tosa bay and southwards, P5, ECP4-ECP2, P2; Philippines, South China Sea, Indo-Pacific, Red Sea.
- Habitat: intertidal to 25 m., coarse sand and stones.
- Original genus: *Pecten*.

□ Genus *Volachlamys* IREDALE, 1939

Type species: *Pecten cumingii* REEVE, 1853 (o. d.)

B482 *V. hirasei hirasei* (BAVAY, 1904)

( = *Chlamys hirasei ecostata* BAVAY, 1904)

Yamino-nishiki

- Type locality: 'Awaji, Japan' (Awaji island, eastern Seto inland sea).
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, Seto inland sea, Ōsaka bay (OKAMURA & KOJIMA, 1984), P5, western Kyūshū (Ariake inland sea; EC5); Yellow Sea, Shandong province (China), southeast Asia, western Pacific.
- Habitat: subtidal to 50 m., mud; in bays and gulfs.
- Original genus: *Chlamys*.

Note: see YOKOGAWA (1997).

B483 *V. hirasei ambiguus* (BAVAY, 1904)

( = *Pecten awajiensis* PILSBRY, 1905; *P. atsumiensis* YOKOYAMA, 1926; *Chlamys sinomarina* HERTLEIN, 1936)

Awaji-chihiro

- Type locality: China.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, Ōsaka bay (OKAMURA & KOJIMA, 1984), Seto inland sea, western Kyūshū (Ariake inland sea; EC5), East China Sea; Taiwan, China.
- Habitat: subtidal to 50 m., mud; in bays and gulfs.
- Original genus: *Chlamys*.

□ Genus *Exellichlamys* IREDALE, 1939

Type species: *Pecten spectabilis* REEVE, 1853 (o. d.)

B484 *E. spectabilis* (REEVE, 1853 in 1843-65)

( = *Pecten parvus* SOWERBY, 1835 non DA COSTA, 1778)

Chihiro-gai

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hainan, Indo-Pacific, Red Sea to Australia.
- Habitat: intertidal to 50 m., gravel and sand; coral sand.
- Original genus: *Pecten*.

B485 *E. histrionica* (GMELIN, 1791)

( = *Pallium striatum* SCHUMACHER, 1817)

Ō-chihiro-gai

- Type locality: none designated.
- Distribution: 'Taiwan to Honshū' (BERNARD *et al.*, 1993), Miyako islands (Okinawa prefecture) and southwards, P2, East China Sea; Philippines, South China Sea, Hainan, Thailand, Australia.
- Habitat: 10-85 m., coarse sand and stones.
- Original genus: *Ostrea*.

□ Genus *Anguipecten* DALL, BARTSCH & REHDER, 1938

Type species: *Anguipecten gregoryi* DALL, BARTSCH & REHDER, 1938 (o. d.; = *Pecten superbus* SOWERBY II, 1842)

B486 *A. superbus* (SOWERBY II, 1842 in 1842-87)

( = *A. gregoryi* DALL, BARTSCH & REHDER, 1938)

Shuro-no-ha-kinchaku

- Type locality: none designated.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Borneo, Indo-Pacific to Hawaii.
- Habitat: 10-50 m., fine sand.
- Original genus: *Pecten*.

B487 *A. lamberti* (SOVERBIE & MONTROUZIER, 1874 in 1862-79)

Nansode-kinchaku

- Type locality: near Loyalty islands, New Caledonia.
- Distribution: Okinawa and southwards, ECP2, P2, East

China Sea; Philippines, Indonesia, western Pacific, New Caledonia, Hawaii.

- Habitat: 10-60 m., sand.
- Original genus: *Pecten*.

Subfamily **HINNITINAE HABE, 1977-a**

**Note:** the position of Hinnitinae within this family is provisional.

□ Genus *Hinnites* **DE FRANCE, 1821**

Type species: *Hinnites corteysii* DEFRANCE, 1821 (s. d. GRAY, 1847; = *Ostrea crispa* BROCCCHI, 1814)

B488 *H. boninensis* (**DIJKSTRA & MATSUKUMA, 1993**)

(= *H. corallinus* SOWERBY *sensu* ŌYAMA, 1943-b *non* SOWERBY I, 1827; *H. coralinus* SOWERBY *sensu* HABE, 1951-a; HABE, 1977; OKUTANI & ŌSATO, 1988 *non* *H. corallinus* SOWERBY I, 1827)

Hinode-nishiki

- Type locality: Chichijima, Ogasawara islands: 27° N., 142° E.
- Distribution: Ogasawara islands: Chichijima (Miyano-hama beach, 10 m. OKUTANI & ŌSATO, 1988); Hahajima.
- Habitat: intertidal to 10 m., coral.
- Original genus: *Chlamys* ('*Hinnites*').

Subfamily **PEDUMINAE HABE, 1977-a**

**Note:** the position of Peduminae within this family is provisional.

□ Genus *Pedum* **BRUGUIÈRE, 1792 in 1789-1816**

Type species: *Ostrea spondyloidea* GMELIN, 1791 (s. d. SCHMIDT, 1818)

B489 *P. spondyloideum* (**GMELIN, 1791**)

(= *Ostrea pedum* RÖDING, 1798; *Pedum spondyloides* LAMARCK, 1810 *non* BOSC, 1801; *Pedum pedum intensum* IREDALE, 1939)

Umi-giku-modoki

- Type locality: 'in India'.
- Distribution: Tosa bay (southern Shikoku) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, South China Sea, southeast Asia, Australia, Palau.
- Habitat: intertidal to 20 m., attached by byssus among coral.
- Original genus: *Ostrea*.

Subfamily **HEMIPECTINAE HABE, 1977-a**

□ Genus *Hemipecten* **ADAMS & REEVE, 1849**

Type species: *Hemipecten forbesianus* ADAMS & REEVE, 1849 (mt.)

B490 *H. forbesianus* **ADAMS & REEVE, 1849**

Iwao-nishiki

- Type locality: Sooloo (Sulu) Archipelago (southern Philippines); 14 fms, coral and stones.

- Distribution: Kii peninsula (KURODA & HABE, 1981), P2; Taiwan, Philippines, South China Sea, Beibu gulf, Indonesia.

- Habitat: intertidal to 40 m., rocks and fine sand.

Subfamily **PECTININAE WILKES, 1810**

□ Genus *Pecten* **MÜLLER, 1776**

Type species: *Ostrea maxima* LINNAEUS, 1758 (s. d. SCHMIDT, 1818)

Subgenus *Oppenheimopecten* **TEPPNER, 1922**

Type species: *Pecten subbenedictus* FONTANNES, 1878 (o. d.)

B491 *P. (O.) sinensis sinensis* **SOWERBY II, 1842 in 1842-87**

Taiwan-hana-itaya

- Type locality: 'China'.
- Distribution: southern Okinawa prefecture and southwards, ECP2, P2; South China Sea.
- Habitat: 10-50 m., fine sand.

B492 *P. (O.) sinensis puncticulatus* **DUNKER, 1877**

Hana-itaya

- Type locality: 'Japan' (from article title).
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, East China Sea; southern Korea, Yellow Sea, Taiwan.
- Habitat: 10-80 m., sand.

Subgenus *Notovola* **FINLAY, 1926**

Type species: *Pecten novaezelandiae* REEVE, 1852 (o. d.) (= '*Notovola*' *sensu* CHEN, 1960 *err. pro* '-vola')

B493 *P. (N.) excavatus* **ANTON, 1838**

Shina-itaya

- Type locality: 'China'.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; South China Sea, Indonesia, western Pacific.
- Habitat: 10-125 m., sand.

B494 *P. (N.) albicans albicans* (**SCHRÖTER, 1802**)

(= *Pecten laqueatus* SOWERBY II, 1842)

Itaya-gai

- Type locality: Japan.
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4, East China Sea; Korea, Yellow Sea, South China Sea, Taiwan.
- Habitat: 10-100 m., sand.
- Original genus: *Ostrea*.

B495 *P. (N.) albicans naganumanus* **YOKOYAMA, 1920**

Kazu-une-itaya

- Type locality: Naganuma, Yokohama City (fossil).
- Distribution: Mie prefecture (off Cape Daiō, Shima peninsula), western Japan Sea (J2-J1), EC5, East China



Sea,

- Habitat: 50-100 m., sandy mud.

Subgenus ***Minnivola* IREDALE, 1939**

Type species: *Minnivola isomeres* IREDALE, 1939 (o. d.)

B496 ***P. (M.) pyxidatus* (BORN, 1778)**

(= *Pecten crebricostatus* PHILIPPI, 1844)

- Type locality: none designated.
- Distribution: P2; Taiwan and southwards, Philippines, South China Sea, Hainan, Hong Kong, Indonesia, tropical western Pacific.
- Habitat: subtidal to 100 m., sand.
- Original genus: *Ostrea*.

Subgenus ***Serratovola* HABE, 1951-a**

Type species: *Pecten tricarinatus* ANTON, 1839 (o. d.)

B497 ***P. (S.) tricarinatus* ANTON, 1839**

(= *Pecten rubidus* auct. non HINDS, 1844; *P. asper* SOWERBY II, 1842 non LAMARCK, 1819; *P. passerimus* HINDS, 1845)

Shizetsu-hotate (= Madara-shizetsu-hotate)

- Type locality: 'China'.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Borneo, Indo-western Pacific.
- Habitat: 10-100 m., sandy mud.

Subfamily **PATINOPECTINAE MASUDA, 1962**

□ Genus ***Patinopecten* DALL, 1898-a**

Type species: *Pecten caurinus* GOULD, 1850 (o. d.)

Subgenus ***Mizuhopecten* MASUDA, 1963**

Type species: *Pecten yessoensis* JAY, 1856 (o. d.)

B498 ***Patinopecten (Mizuhopecten) yessoensis* (JAY, 1856)**

(= *Pecten brandtii* SCHRENCK, 1861)

Hotate-gai (= Akita-gai)

- Type locality: Hakodate, Hokkaidō.
- Distribution: northeastern Honshū (Fukushima prefecture) and northwards, P8-P10, Japan Sea (Noto peninsula, J3-J5), OP, Kuril islands to British Columbia; Bo-hai, Korea, Primoriye region (Japan Sea coast of Russia ARZAMASTSEV, 1997).
- Habitat: 2-80 m., mud, coarse sand and stones.
- Original genus: *Pecten*.

Subfamily **AMUSIINAE RIDWOOD, 1903**

(Refs.: Ōyama, 1951-a; Dijkstra, 1995; Dijkstra & Kastoro, 1997)

□ Genus ***Amusium* RÖDING, 1798**

Type species: *Ostrea pleuronectes* LINNAEUS, 1758 (s. d. HERRMANNSEN, 1846)

B499 ***A. pleuronectes* (LINNAEUS, 1758)**

(= *Pleuronectia laevigata* SWAINSON, 1840)

Takasago-tsukihhi

- Type locality: 'in Indiis'.
- Distribution: southern Okinawa and southwards, ECP2, P2; Philippines, South China Sea, Hainan, Australia, Indian Ocean.
- Habitat: 10-80 m., sand & mud.
- Original genus: *Ostrea*.

B500 ***A. japonicum japonicum* (GMELIN, 1791)**

Tsukihhi-gai

- Type locality: 'ad Guineae et Japoniae littora' (shores of New Guinea and Japan).
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5; southern Korea.
- Habitat: 10-100 m., fine sand.
- Original genus: *Ostrea*.

G501 ***A. japonicum taiwanense* DIJKSTRA, 1990**

(= *A. japonicum formosum* HABE, 1964 non MELVILL & STANDEN, 1907; *A. taiwanicum* HABE, 1992-b)

- Type locality: Taiwan.
- Distribution: Okinawa and southwards; Taiwan.
- Habitat: 10-50 m., fine sand.

Subfamily **PALLIOLINAE KOROBYKOV, 1960**

(= CAMPTONECTINAE HABE, 1977)

□ Genus ***Delectopecten* STEWART, 1930**

Type species: *Pecten (Pseudamussium) vancouverensis* WHITEAVES, 1893 (o. d.)

B502 ***D. macrocheilicola* (HABE, 1951-a)**

(= *Pecten vitrea* auct. non. GMELIN, 1791)

Hari-nadeshiko-gai

- Type locality: off Minabe, Wakayama prefecture; on carapace of spider crab *Macrocheila kaempferi* DE HAAN.
- Distribution: Hokkaidō and southwards, P10-P5, Izu islands (Miyake island OKUTANI, 1962), Sagami bay (OKUTANI, 1966), Japan Sea (J5-J1), EC5 (off Kushikino, southwestern Kyūshū OKUTANI, 1962), East China Sea; China (Zhejiang), Sakhalin.
- Habitat: 50-1350 m, on mud or attached to crabs.
- Original genus: *Palliolum*.

B503 ***D. randolphi* (DALL, 1897-b)**

(= *Pecten whiteavesi* ORCUTT, 1915)

Ō-hari-nadeshiko

- Type locality: off Destruction island, Washington State, USA.
- Distribution: Izu islands (off Miyake island, 1080-1205 m. OKUTANI, 1968), Sagami bay (OKUTANI, 1968), Suruga bay, East China Sea, Hokkaidō to Kamchatka peninsula, northern Pacific, northwestern USA.
- Habitat: 20-3080 m., sand and mud.

- Original genus: *Pecten*.

B504 *D. alcocki* (E. A. SMITH, 1904-a)

Ginrin-hari-nadeshiko

- Type locality: 'Investigator' sta. 232, off southern India: 07° 17' 30" N., 76° 54' E., 430 fms.
- Distribution: Bōsō peninsula (TSUCHIDA & KUROZUMI, 1995-b), and westwards, Tosa bay (TSUCHIDA, 1994-b), western Japan to Indian Ocean.
- Habitat: 274-1010 m., silt (TSUCHIDA, 1994-b).
- Original genus: *Pecten*.

□ Genus *Hyalopecten* VERRILL, 1897

Type species: *Pecten undatus* VERRILL, 1885 (o. d.)

B505 *H. profundicola* (OKUTANI, 1962)

Naname-hari-nadeshiko (= Wadatsumi-nishiki)

- Type locality: 'Sōyō-Maru' sta. b., 56 miles off Aogashima, Izu islands, 3150-3350 m.
- Distribution: recorded only from type locality.
- Original genus: *Delectopecten*.

Family PROPEAMUSSIIDAE ABBOTT, 1954

□ Genus *Propeamussium* GREGORIO, 1884

Type species: *Pecten (Propeamussium) ceciliae* GREGORIO, 1884 (o. d.)

(= *Variamussium* SACCO, 1897; *Paramussium* VERRILL, 1897; *Occultamussium* KOROBKOV, 1937; *Glyptamussium* ŌYAMA, 1944; *Bathyamussium* ŌYAMA, 1951-a; *Pseudopalliorum* ŌYAMA, 1944; *Flavamussium* ŌYAMA, 1944; *Luteamussium* ŌYAMA, 1951-a; *Micramussium* ŌYAMA, 1951) (Refs.: Ōyama, 1944)

B506 *P. caducum* (E. A. SMITH, 1885-a)

(= *Amussium weberi* DAUTZENBERG & BAVAY, 1912; *Propeamussium nakazawai* KURODA, 1932 *nom. nud.*) Watazoko-tsukihi

- Type locality: 'Challenger' sta. 207, west of Luzon, Philippines: 12° 21' N., 122° 15' E., 700 fms.
- Distribution: Suruga bay and southwards, P6-P5, EC5, ECP4, P2, East China Sea; Philippines, Indonesia, New Caledonia, Bay of Bengal, Arabian Sea, Gulf of Aden, Tanzania (DIJKSTRA & KASTORO, 1997).
- Habitat: 200-1500 m., mud.
- Original genus: *Amussium*.

B507 *P. sibogai* (DAUTZENBERG & BAVAY, 1904)

Kurage-tsukihi

- Type locality: Bali Sea, Indonesia; 289 m.
- Distribution: Enshū-nada (KURODA & HABE, 1981) and southwards, western Kyūshū, P6-P5, EC5, ECP4-ECP2, P2, East China Sea; South China Sea, Indonesia, southeast Asia, New Caledonia, Loyalty islands, northwestern Australia, South Africa (DIJKSTRA & KASTORO, 1997).

- Habitat: 120-400 m., sandy mud.

- Original genus: *Amussium*.

B508 *P. rubrotinctum* (ŌYAMA, 1951-a)

Oboro-tsukihi

- Type locality: Tosa bay, southern Shikoku.
- Distribution: off Mie prefecture (off Owase MATSUMOTO, 1979) and southwards, P6-P5, EC5, ECP4, East China Sea; New Caledonia, Loyalty islands (DIJKSTRA, 1995), Indonesia (DIJKSTRA & KASTORO, 1997).
- Habitat: 200-300 m., mud.
- Original genus: *Parvamussium*.

B509 *P. scitulum* (E. A. SMITH, 1885-a)

(= *P. cmadoritinctum* (*sic*) KURODA, 1931)

Kumadori-tsukihi

- Type locality: 'Challenger' sta. 188, south of New Guinea: 9° 59' S., 139° 42' E., 28 fms.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, EC5, ECP4, East China Sea; New Caledonia, New Guinea.
- Habitat: 40-500 m., sand.
- Original genus: *Amussium*.

B510 *P. watsoni* (E. A. SMITH, 1885-b)

(= *P. watsoni bayonnaiense* OKUTANI, 1962)

Shintei-tsukihi

- Type locality: 'Challenger' sta. 218, northeast of New Guinea: 02° 23' S., 144° 4' E., 1070 fms.
- Distribution: Sagami bay and southwards, east off Izu islands (Bayonnaise rock OKUTANI, 1962; 1966), P6-P5, Tosa bay (TSUCHIDA, 1994-b), southwestern Shikoku (Hyūga hollow, 1950-1965 m. Tsuchida, 1993); Papua New Guinea, New Caledonia, Chesterfield islands, Loyalty islands.
- Habitat: 2000-2500 m.
- Original genus: *Amussium*.

B511 *P. jeffreysi* (E. A. SMITH, 1885-a)

Hanayaka-tsukihi

- Type locality: 'Challenger' sta. 210, off Philippines: 9° 26' N., 123° 45' E., 375 fms.
- Distribution: Enshū-nada and southwards, P6-P5, EC5, ECP4, East China Sea, P2; Philippines, South China Sea.
- Habitat: 100-600 m., sandy mud.
- Original genus: *Amussium*.

B512 *P. siratama* (ŌYAMA, 1951-a)

Shiratama-tsukihi

- Type locality: Cape Manazuru, western Sagami bay, central Honshū; 128-159 fms.
- Distribution: Bōsō peninsula and southwards, P6-P5 (Sagami bay OKUTANI, 1966), Tosa bay (TSUCHIDA, 1994-b), EC5; 'Japan to Indonesia' (DIJKSTRA &

KASTORO, 1997).

- Habitat: 100-600 m., mud.
- Original genus: *Ctenamussium* (*Micramussium*).

**B513 *P. sinensis* (WANG, 1980)**

Shinakai-watazoko-tsukihi

- Type locality: east China Sea: 26° 30' N., 124° 00' E.
- Distribution: recorded only from type locality.
- Original genus: *Ctenamussium*.

□ Genus *Parvamussium* SACCO, 1897

Type species: *Pecten* (*Pleuronectes*) *duodecimlamellatum* BRONN, 1831 (o. d.)

(= *Ctenamussium* IREDALE, 1929; *Polyneamussium* HABE, 1951-a)

**B514 *P. intuscostatus* (YOKOYAMA, 1920)**

(= *Pecten tenuicostatus* YOKOYAMA, 1922)

Motori-nishiki

- Type locality: Kami-Miyata, Miura City, eastern Sagami bay (fossil).
- Distribution: Tsugaru strait (northern Honshū) and southwards, P10-P5, Japan Sea (northern Niigata prefecture, J3-J1), EC5, ECP4.
- Habitat: 50-500 m., fine sand and mud.
- Original genus: *Pecten*.

**B515 *P. alaskensis* (DALL, 1872)**

(= *Pecten intuscostatus multicostata* YOKOYAMA, 1926 non NELSON, 1827; *P. intuscostatus sawanensis* HERTLEIN, 1931; *P. shimanense* KURODA, 1931)

Arasuka-nishiki (= Shimane-nishiki)

- Type locality: North harbour, Unga island (Alaska) and Port Etches, Chugach gulf (Alaska).
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, P9-P10, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J4), OP, Kuril islands; Primoriye region (Japan Sea coast of Russia), Sakhalin to Alaska, northwestern USA.
- Habitat: 50-560 m., sandy mud.
- Original genus: *Pecten* (*Pseudamussium*).

**B516 *P. davidsoni* (DALL, 1897-b)**

Shiro-nadeshiko

- Type locality: Davidson bank, Alaska and north of Unalashka, Bering Sea.
- Distribution: Okhotsk Sea and northwards; Bering Sea, Alaska.
- Habitat: 500-1270 m., sandy mud.
- Original genus: *Pecten*.

**B517 *P. vohakovi* SCARLATO, 1960**

Hokuyo-nadeshiko

- Type locality: Okhotsk Sea.
- Distribution: Kuril islands and northwards, Okhotsk Sea; Bering Sea.

- Habitat: 300-600 m., sandy mud.

**B518 *P. carbaseum* DIJKSTRA, 1991**

(= *P. crypticum* HAYAMI & KASE, 1993)

Kakure-tsukihi-gai

- Type locality: 'Snellius-II' sta. 4.031, Tukang Besi islands, Banda Sea, Indonesia: 05° 54' S., 123° 58.4' E., 390 m.
- Distribution: 'Shō-dōkutsu' (cave), Ie island, Okinawa (HAYAMI & KASE, 1993); eastern Indonesia (DIJKSTRA & KASTORO, 1997).

**B519 *P. decoratum* HAYAMI & KASE, 1993**

Mijin-tsukihi-gai

- Type locality: south off Ie island, Okinawa; ± 70 m., attached by byssus to algal balls.
- Distribution: Okinawa prefecture (Ie island; Shimoji and Irabu islands in caves; Miyako islands).

□ Genus *Cyclopecten* VERRILL, 1897

Type species: *Pecten pustulosus* VERRILL, 1893 (s. d. SYKES *et al.*, 1898)

(= *Cyclochlamys* FINLAY, 1926 *nom. null.*; *Arctinula* THIELE, 1934; *Catillopecten* IREDALE, 1939; *Aretinula* NEAVE, 1939 *nom. null.*)

**B520 *C. imbrifer* (LOVÉN, 1846)**

(= *Propeamussium* (*Polyneamussium*) *imbriferum* (LOVÉN) *sensu* SHIKAMA, 1964)

Dattan-nishiki

- Type locality: 'Finm.' (Finmark, western Scandinavia).
- Distribution: northern Japan Sea (SHIKAMA, 1964); 'Arctic Seas, northern Atlantic (in deep water)' (ROMBOUTS, 1991).
- Original genus: *Pecten*.

**B521 *C. bistriatus* (DALL, 1916-b)**

Kōshi-hari-nadeshiko

- Type locality: USFC sta. 2923, off San Diego, California.
- Distribution: Sagami bay (OKUTANI, 1962; 1966), Tosa bay (TSUCHIDA, 1994-b), Kii peninsula (TSUCHIDA, 1985-b); California.
- Habitat: 450-1385 m.
- Original genus: *Pseudamussium*.

**B522 *C. nakaii* OKUTANI, 1962**

Nakai-nishiki

- Type locality: 'Sōyō-Maru' sta. T29, Sagami bay, central Honshū: 35° 04.4' N., 139° 29.5' E., 580-790 m.
- Distribution: Izu islands (off Miyake island, 1080-1250 m. OKUTANI, 1968), Kii peninsula (off Cape Shio), Sagami bay, Bōsō peninsula (TSUCHIDA & KUROZUMI, 1995-b), off central Honshū.
- Habitat: 450-800 m.

**B523 *C. nipponensis* OKUTANI, 1962**

Nippon-hari-nadeshiko

- Type locality: 'Sōyō-Marū' sta. B2, 26 miles off Miyake island, Izu islands: 34° 10.0' N., 140° 05.0' E., 1230-1350 m.

- Distribution: Sagami bay (1480 m. OKUTANI, 1968), type locality (1080-1270 m. OKUTANI, 1968).

**B524 *C. ryukyuensis* HAYAMI & KASE, 1993**

Keshi-hari-nadeshiko

- Type locality: sediments in 'Cross Hole' (cave), Irabu island (Miyako group), Okinawa prefecture.

- Distribution: Ryūkyū islands (Ie; Shimoji; Irabu); Philippines ('Balicasag cave' off Panglao).

- Habitat: subtidal in caves.

□ Genus *Chlamydeila* IREDALE, 1929

Type species: *Cyclopecten favus* HEDLEY, 1902 (o. d.)

**B525 *Ch. incubata* HAYAMI & KASE, 1993**

Komochi-hari-nadeshiko

- Type locality: sediments in 'Cross Hole' (cave), Irabu island (Miyako group), Okinawa prefecture.

- Distribution: Ryūkyū islands (Ie; Shimoji; Irabu), Amami Ōshima (Tsuchi-hama), southern Shikoku, Kii peninsula (Ogokuda beach near Kushimoto), Izu peninsula (Kumomi, Gyuchaku-iwa; Heda).

- Habitat: subtidal in caves.

**B526 *Ch. tenuissima* HAYAMI & KASE, 1993**

Usu-hari-nadeshiko

- Type locality: sediments in 'Cross Hole' (cave), Irabu island (Miyako group), Okinawa prefecture.

- Distribution: Ryūkyū islands (Ie; Shimoji; Irabu).

- Habitat: subtidal in caves.

Family SPONDYLIDAE GRAY, 1826

□ Genus *Spondylus* LINNAEUS, 1758

(Refs.: Lamprell, 1986)

Type species: *Spondylus gaederopus* LINNAEUS, 1758 (s. d. SCHMIDT, 1818)

Subgenus *Spondylus s. str.*

**B527 *S. (S.) anacanthus* MAWE, 1823**

(= *S. nudus* SOWERBY II, 1847 non CHENU, 1845)

Ō-nadeshiko

- Type locality: 'Indian Seas'.

- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Indo-Pacific.

- Habitat: 30-300 m., coarse sand and stones; rocks.

**B528 *S. (S.) occidens* SOWERBY III, 1903-b**

Toge-ō-nadeshiko

- Type locality: Japan.

- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, East China Sea; South China Sea, Philippines.

- Habitat: intertidal to 50 m., in dead coral.

**B529 *S. (S.) varius* SOWERBY I, 1827**

(= *S. varians* SOWERBY, 1847; *S. delessertii* CHENU, 1845)

Mizu-iri-shōjō-gai

- Type locality: 'Islands of the Australasian and Polynesian groups' (Stutchbury collection).

- Distribution: Amami islands and southwards, ECP3-ECP2, P2, East China Sea; Philippines, South China Sea, southeast Asia, Micronesia.

- Habitat: subtidal to 20 m., rocks and dead coral.

**B530 *S. (S.) squamosus* SCHREIBERS, 1793**

(= *S. ducalis* SCHRÖTER, 1788; *S. spathulifera* LAMARCK, 1819; *S. fragilis* SOWERBY II, 1847)

Men-gai (= Omote-gai)

- Type locality: 'Ostindien' (East Indies).

- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hainan, Hong Kong, tropical Indo-Pacific.

- Habitat: intertidal to 20 m., rocks.

**B531 *S. (S.) nicobaricus* SCHREIBERS, 1793**

(= *S. pseudochama* SCHREIBERS, 1793; *S. hystrix* RÖDING, 1798; *S. radians* LAMARCK, 1819; *S. aculeatus* BRODERIP, 1833; *S. ciliatus* SOWERBY II, 1847; *S. coccineus* SOWERBY & REEVE, 1847; *S. ocellatus* REEVE, 1856; *S. serratissimus* DALL, BARTSCH & REHDER, 1938; *S. indea* IREDALE, 1939; *S. percea* IREDALE, 1939; *S. parocellatus* IREDALE, 1939)

Mikihari-men-gai (= Shōjō-kazura)

- Type locality: none designated.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hainan, Hong Kong, tropical Indo-Pacific.

- Habitat: intertidal to 20 m., rocks.

- Type locality: none designated.

- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hainan, Hong Kong, tropical Indo-Pacific.

- Habitat: intertidal to 20 m., rocks.

**B532 *S. (S.) zonalis* LAMARCK, 1819 in 1815-22**

(= *S. herinaceus* CHENU, 1845)

Nana-iro-umi-giku

- Type locality: 'l'Océan des grandes Indes'.

- Distribution: Okinawa (SHIMIZU, 1971); Philippines, Mauritius, northern Australia, Eilat (LAMPRELL, 1986).

**B533 *S. (S.) candidus* LAMARCK, 1819 in 1815-22**

Yasuri-men-gai

- Type locality: 'les mers de la nouvelle Hollande' (Australian seas).

- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Red Sea to Australia, tropical

Indo-Pacific.

- Habitat: intertidal to 20 m., rocks and dead coral.

**B534 *S. (S.) versicolor* SCHREIBERS, 1793**

(= *S. aurantius* LAMARCK, 1819)

Uni-men-gai

- Type locality: none designated.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Red Sea to Australia, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., rocks and dead coral.

**B535 *S. (S.) barbatus barbatus* REEVE, 1856 in 1843-65**

(= *S. sinensis* SOWERBY II, 1847 *non* SCHREIBERS, 1793; *S. japonicus* KURODA, 1932)

Umi-giku

- Type locality: 'Philippine Islands'.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hong Kong, southeast Asia, western Pacific.
- Habitat: intertidal to 100 m., rocks.

**B536 *S. (S.) barbatus cruentus* LISCHKE, 1868 in 1868-73**

Chiribotan

- Type locality: 'Nagasaki' (western Kyūshū).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2, East China Sea.
- Habitat: intertidal to 20 m., attached by right valve to rocks.

**B537 *S. (S.) longitudinalis* LAMARCK, 1819 in 1815-22**

(= *S. americanus* SCHREIBERS, 1793 *non* HERMANN, 1781; *S. butleri* REEVE, 1856)

Kaba-toge-umi-giku

- Type locality: 'les mers d'Amérique?' (American seas?).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, western Pacific.
- Habitat: intertidal to 20 m., rocks.

**B538 *S. (S.) castus* REEVE, 1856 in 1843-65**

Shiro-umi-giku

- Type locality: 'Philippine Islands'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2, East China Sea; Philippines, South China Sea, Red Sea to Australia, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., rocks.

**B539 *S. (S.) setiger* REEVE, 1856 in 1843-65**

Azuki-iro-men-gai

- Type locality: 'Philippine Islands'.
- Distribution: Kii peninsula (KURODA & HABE, 1981)

and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea.

- Habitat: intertidal to 20 m., on oysters and other shells.

**B540 *S. (S.) spinosus* SCHREIBERS, 1793**

(= *S. aculeatus* SCHREIBERS, 1793; *S. proboscideus* SCHREIBERS, 1793; *S. marisrubri* RÖDING, 1798; *S. dentatus* CHENU, 1845)

Shiro-toge-umi-giku

- Type locality: '...des rothen Meeres' (Red Sea).
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, South China Sea, Red Sea, Mauritius to Australia, western Pacific.
- Habitat: subtidal to 20 m., on dead coral, rocks and shells.

**B541 *S. (S.) albibarbatus* REEVE, 1856 in 1843-65**

Koshiro-toge-umi-giku

- Type locality: 'Philippine Islands'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2, East China Sea; Philippines, South China Sea, Australia, New Caledonia.
- Habitat: subtidal to 20 m., rocks and dead coral.

**B542 *S. (S.) flabellum* REEVE, 1856 in 1843-65**

Uchiwa-umi-giku (= Uchiwa-men-gai)

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2, East China Sea; Philippines, South China Sea, Indo-Pacific, Solomon islands.
- Habitat: subtidal to 50 m., rocks and dead coral.

**Notes:** Hoso-toge-umi-giku *S. tenuispinosus* SOWERBY II, 1847 in 1842-87 (type locality: 'Island of Zebu, Philippines') was cited from 'Japan?' (BERNARD *et al.*, 1993), as well as the Philippines, South China Sea and Hainan. The present authors have been unable to confirm distribution of this species in Japan.

**B543 *S. (S.) lamarcki* CHENU, 1845 in 1843-53**

Asahi-men-gai

- Type locality: 'l'Océan des Grandes-Indes'.
- Distribution: Nagasaki prefecture (Cape Nomozaki, 50 m.); Philippines, western Australia, southern Pacific.
- Habitat: subtidal to 50 m., dead coral.

**B544 *S. (?S.) multimuricatus* REEVE, 1856 in 1843-65**

Yabusuma-umi-giku

- Type locality: 'Philippine Islands'.
- Distribution: East China Sea; Philippines, South China Sea, Beibu gulf, Solomon islands (BERNARD *et al.*, 1993).
- Habitat: intertidal to 50 m., on oysters and shell debris.

**B545 *S. (?S.) punicus* BERNARD *et al.*, 1993**

(= *S. coccineus* LAMARCK, 1819 *non* SCHREIBERS,

1793)

Daidai-men-gai

- Type locality: Indian Ocean.
- Distribution: Okinawa to East China Sea; South China Sea, Philippines, Indian Ocean (BERNARD *et al.*, 1993).
- Habitat: 10-30 m., dead coral.

Subgenus *Eleutherospondylus* (*sic*) **DUNKER, 1882**

Type species: *Spondylus regius* LINNAEUS, 1758 (s. d. COX in MOORE, 1969)

B546 *S. (E.) regius* (LINNAEUS, 1758)

Shōjō-gai

- Type locality: 'in India'.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Indonesia, southeast Asia.
- Habitat: 5-50 m., among coral debris and rocks.

B547 *S. (E.) cumingi* SOWERBY II, 1847 in 1842-87

Sen'nin-shōjō-gai

- Type locality: 'the island of Java' (Indonesia).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, China, southeast Asia.
- Habitat: 5-50 m., coral debris.

B548 *S. (E.) imperialis* CHENU, 1845 in 1843-53

Misakae-shōjō-kazura (= Mikihari-shōjō)

- Type locality: 'les mers de l'Inde'.
- Distribution: Okinawa islands and southwards, ECP2, P2, East China Sea; Philippines, South China Sea, Hainan, Indian Ocean, tropical Pacific.
- Habitat: 5-80 m., coral debris.

B549 *S. (E.) serraticostatus* PRASHAD, 1932

Shōki-umi-giku (= Shiboga-men-gai)

- Type locality: 'Siboga' sta. 260, off Kei islands, Arafura Sea: 05° 36.5' S., 132° 55.2' E., 90 m.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hainan, Indian Ocean, Borneo, Indonesia.
- Habitat: 5-90 m., on coral and shells.

B550 *S. (E.) sinensis* SCHREIBERS, 1793

(= *S. foliaceus* SCHREIBERS, 1793; *S. marmoratus* SCHREIBERS, 1793; *S. pesasininus* RÖDING, 1798; *S. digitatus* PERRY, 1811; *S. costatus* LAMARCK, 1819; *S. multilamellatus* LAMARCK, 1819; *S. petroselinum* SOWERBY II, 1847; *S. pernus* IREDALE, 1939)

Dandoku-men-gai

- Type locality: none designated.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Indian Ocean, western

Pacific.

- Habitat: subtidal to 30 m., coral and shell debris.

B551 *S. (E.) erectospinosus* HABE, 1973-a

Hariyama-umi-giku

- Type locality: coral reefs in the South China Sea; ± 200 m.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, East China Sea, P2; South China Sea, Philippines.
- Habitat: 50-250 m., in dead coral.

Subgenus *Eltopera* IREDALE, 1939

Type species: *Spondylus (Eltopera) pacificus fortior* IREDALE, 1939 (o. d.; = *Spondylus sanguineus* DUNKER, 1852)

(= *Eltoperna auct.*)

B552 *S. (Eltopera) sanguineus* DUNKER, 1852 in 1852-53

(= *S. pacificus* REEVE, 1856 in 1843-65; *S. pacificus fortior* IREDALE, 1939)

Chi-iro-men-gai

- Type locality: 'ignota' (unknown).
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Indo-Pacific, northern Australia, Solomon islands.
- Habitat: subtidal to 30 m., rocks and dead coral.

Superfamily ANOMIOIDEA RAFINESQUE, 1815

Family ANOMIIDAE RAFINESQUE, 1815

Subfamily ANOMIINAE RAFINESQUE, 1815

(Refs.: Habe, 1953-c)

□ Genus *Anomia* LINNAEUS, 1758

Type species: *Anomia ehippium* LINNAEUS, 1758 (s. d. SCHMIDT, 1818)

B553 *A. chinensis* PHILIPPI, 1849-a

(= *A. cytaeum* GRAY, 1850, *A. lischkei* DAUTZENBERG & FISCHER, 1907; *A. nipponensis* YOKOYAMA, 1920; *A. nipponensis obsoletocostata* GRABAU & KING, 1928; *A. plana* GRABAU & KING, 1928)

Namima-gashiwa (= Shina-tasogare; Aranami-magashiwa)

- Type locality: 'China'.
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (J4-J1), EC5, ECP4-ECP2, P2, East China Sea; Korea, Yellow Sea, South China Sea, Hainan, Hong Kong, southern China, southeast Asia.
- Habitat: intertidal to 80 m., attached by byssus to rocks and timber.

Subfamily PLACUNANOMIINAE BEU, 1967

□ Genus *Monia* GRAY, 1850

Type species: *Anomia zelandica* GRAY in DIEFFENBACH, 1843 (s. d. KOBELT, 1881)

B554 *M. umbonata* (GOULD, 1861 in 1859-61)  
 (= *Anomia radulina* A. ADAMS, 1861-d; *A. pustulosa* A. ADAMS, 1861-d; *Placunanomia radiata* SOWERBY, 1914 non SCHRÖTER, 1803; *A. lunata* YOKOYAMA, 1922; *A. sematana* YOKOYAMA, 1922; *A. lunula* YOKOYAMA, 1922; *A. lunulata* KURODA *et al.*, 1971) Shima-namima-gashiwa-modoki (= Shizetsu-namima-gashiwa)

- Type locality: 'Kagosima Bay' (Kagoshima, southern Kyūshū).
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (J4-J1), EC5, East China Sea; Korea, Yellow Sea, China.
- Habitat: intertidal to 300 m., attached by byssus to rocks and stones.
- Original genus: *Placunanomia*.

B555 *M. macroschisma* (DESHAYES, 1839)

(= *Anomia densicostulata* YOKOYAMA, 1925; *Placunanomia ingens* YOKOYAMA, 1925) Namima-gashiwa-modoki

- Type locality: 'Kamtschatka' (Kamchatka peninsula, Russia).
- Distribution: northeastern Honshū (Miyagi prefecture) and northwards, P8-P10, Hokkaidō, northern Japan Sea (J4-J5), OP, Kuril islands, Okhotsk Sea; Aleutian islands, Bering Sea, western Canada.
- Habitat: intertidal to 60 m., attached by byssus to rocks and stones.

Family **PLACUNIDAE RAFINESQUE, 1815**

(Refs.: Habe, 1953-c)

□ Genus *Placuna* LIGHTFOOT, 1786

Type species: *Anomia placenta* LINNAEUS, 1758 (s. d. SCHMIDT, 1818)

B556 *P. placenta* (LINNAEUS, 1758)

Mado-gai

- Type locality: '*in Pelago*' (open sea).
- Distribution: East China Sea, P2; Taiwan and southwards, South China Sea, Hainan, Hong Kong, Philippines, Moluccas, Red Sea, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., sandy mud.
- Original genus: *Anomia*.

Subclass **HETERODONTA NEUMAYR, 1884**

Order **VENEROIDA H. & A. ADAMS, 1856 in 1853-58**

Superfamily **CHAMOIDEA LAMARCK, 1809**

Family **CHAMIDAE LAMARCK, 1809**

□ Genus *Chama* LINNAEUS, 1758

Type species: *Chama lazarus* LINNAEUS, 1758 (s. d. CHILDREN, 1823: ICZN op. 484)

(= *Maceris* MODEER, 1793; *Lacinea* HUMPHREY in SOWERBY II, 1842; *Macrophyllum* GRAY in GEVERS,

1847; *Macerophylla* MÖRCH, 1853)

B557 *C. lazarus* LINNAEUS, 1758

(= *C. damaecornis* LAMARCK, 1819)

Hire-inko

- Type locality: '*in M. Mediterraneo, Americano*' (Mediterranean and American seas; erroneous).
- Distribution: Kii peninsula and southwards, P5, southern Kyūshū, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Red Sea to Australia, Indo-Pacific.
- Habitat: intertidal to 25 m., cemented to rocks and coral.

B558 *C. ambigua* LISCHKE, 1870 in 1868-73

Hitoe-giku

- Type locality: 'Nagasaki' (western Kyūshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, East China Sea.
- Habitat: intertidal to 20 m., cemented to rocks.

B559 *C. plinthota* COX, 1927

(= *Chama savignyi* JOUSSEAUME *sensu* LAMY, 1921; *C. annarosae* SELLI, 1973)

Shishi-gashira-zaru

- Type locality: Zanzibar, east Africa.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, east Africa to northern Australia.
- Habitat: subtidal, cemented to rocks or coral.

B560 *C. dunkeri* LISCHKE, 1870 in 1868-73

Keitō-gai

- Type locality: 'Nagasaki' (western Kyūshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2, East China Sea; South China Sea, Hong Kong, Hainan, Beibu gulf.
- Habitat: intertidal to 100 m., cemented to rocks and coral.

B561 *C. linguafelis* REEVE, 1847 in 1843-65

Nekojita-zaru

- Type locality: 'Island of Guimaras, Philippines (attached to stones)'.
- Distribution: Ogasawara islands and southwards, P11, 'Pacific side, 11°-27° N.' (KURODA & HABE, 1952-a); Philippines.
- Habitat: subtidal to 20 m., on rocks.

B562 *C. brassica* REEVE, 1847 in 1843-65

(= *C. imbricata* BRODERIP, 1835 non LAMARCK, 1801) Shiro-zaru

- Type locality: 'Island of Cabul (*sic*; = Capul), Philippines (under stones at low water)'.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hainan, Beibu gulf, Malaysia, Vietnam, Red Sea,

tropical Indo-Pacific.

- Habitat: subtidal to 50 m., cemented to rocks and coral.

**B563 *C. japonica* LAMARCK, 1819 in 1815-22**

(= *C. aspersa* REEVE, 1846; *C. fibula* REEVE, 1846; *C. hendersoni* DALL, BARTSCH & REHDER, 1938)

Kiku-zaru-gai (= Hendāson-zaru)

- Type locality: 'les mers du Japon' (Japanese seas).
- Distribution: Mutsu bay (Aomori prefecture) and southwards, Tsugaru peninsula, P9-P5, Japan Sea (J4-J1), EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Korea, China, tropical Indo-Pacific, Australia, Hawaii.

- Habitat: intertidal to 100 m., right valve cemented to rocks.

**B564 *C. reflexa* REEVE, 1846 in 1843-65**

Mikaeri-kiku-zaru

- Type locality: 'North Australia'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hong Kong, Beibu gulf, Hainan, Red Sea to Australia, Indo-Pacific.
- Habitat: intertidal to 150 m., right valve cemented to rocks.

**B565 *C. fraga* REEVE, 1846 in 1843-65**

Ichigo-kiku-zaru (= Shikoro-zaru)

- Type locality: 'Island of Mindoro, Philippines (attached to coral)'.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2, East China Sea; South China Sea, Philippines, Hainan, Red Sea, Australia, Indo-Pacific.
- Habitat: intertidal to 60 m., attached to rocks.

**B566 *C. lobata* BRODERIP, 1835-b**

Hire-zaru-gai

- Type locality: '*ad insulam Nevis*' (West Indies; probably erroneous).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, South China Sea, Hainan, Vietnam, Indonesia, tropical Pacific.
- Habitat: subtidal to 20 m., attached to rocks.

**B567 *C. limbula* LAMARCK, 1819 in 1815-22**

(= *C. iostoma* CONRAD, 1837-a; *C. nivalis* REEVE, 1846; *C. buellowi* CLESSIN, 1889; *C. porosa* CLESSIN, 1889; *C. limbata* PAETEL, 1889)

Kanetsuke-zaru (= Hageitō-gai)

- Type locality: 'les mers de la Nouvelle Hollande' (Australian seas).
- Distribution: Izu islands and southwards, P11, northern Ogasawara islands, P6-P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Australia,

Hawaii, Indo-Pacific.

- Habitat: intertidal to 20 m., cemented to rocks and coral.

**B568 *C. pacifica* BRODERIP, 1835-b**

(= *C. foliacea* QUOY & GAIMARD, 1835; *C. divaricata* REEVE, 1846)

Shima-zaru (= Unabara-zaru)

- Type locality: '*in Oceano Pacifico* (Lord Hood's Island.-Pearl Islands)'. 3-7 fathoms, by diver (Lord Hood's island is probably Marutea, 21° 30' S., 135° 33' W.)

- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, Australia, Indo-Pacific.

- Habitat: intertidal to 20 m., attached to rocks and coral.

**B569 *C. asperella* LAMARCK, 1819 in 1815-22**

(= *C. spinosa* BRODERIP, 1835; *C. jukesi* REEVE, 1847; *C. pellisphocae* REEVE, 1847; *C. gryphoides* KRAUSS, 1848 non LINNAEUS, 1758)

Shiraga-zaru

- Type locality: 'les mers australes?' (southern seas?).
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, Hainan, Indonesia, Red Sea, Australia, Indo-Pacific.

- Habitat: intertidal to 20 m., cemented to rocks, coral or shells.

**B570 *C. semipurpurata* LISCHKE, 1870 in 1868-73**

Somewake-gashira

- Type locality: 'Nagasaki' (western Kyūshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2, East China Sea; South China Sea, Hainan.

- Habitat: intertidal to 30 m., on rocks.

□ Genus *Pseudochama* ODHNER, 1917

Type species: *Chama cristella* LAMARCK, 1819 (s. d. GARDNER, 1923)

**B571 *P. retroversa* (LISCHKE, 1870 in 1868-73)**

Saruno-kashira

- Type locality: 'Nagasaki' (western Kyūshū).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, P2, East China Sea; South China Sea.

- Habitat: intertidal to 20 m., right valve cemented to rocks.

- Original genus: *Chama*.

**B571 *P. aurantia* (KURODA & HABE in KURODA *et al.*, 1971)**

Kogane-zaru

- Type locality: Sagami bay, central Honshū.
- Distribution: Bōsō peninsula and westwards, P7-P5, EC5, East China Sea; China (Zhejiang BERNARD *et al.*, 1993).

- Habitat: 20-200 m., cemented to rocks.

- Original genus: *Chama* (*Pseudochama*).



**B573 *P. ruderalis* (LAMARCK, 1819 in 1815-22)**

(= *Chama fimbriata* REEVE, 1847)

Kanoko-gashira

- Type locality: 'les mers australes. La variete (b) vient du Port Jackson' ('southern seas; variety (b) is from Port Jackson' - Sydney, Australia).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Australia.
- Habitat: intertidal to 200 m., cemented to limestone and coral.
- Original genus: *Chama*.

**B574 *P. pulchella* (REEVE, 1846 in 1843-65)**

(= *P. similis* ODHNER, 1917)

Futa-obi-zaru-gai

- Type locality: 'Cape Upstart, New Holland (on coral reefs at low water)' (Queensland, Australia).
- Distribution: Okinawa (Miyako island, 88 m. KUBO 1993-b); northern Australia.
- Habitat: intertidal to 10 m., attached to shell debris.
- Original genus: *Chama*.

□ Genus *Amphichama* HABE in KURODA *et al.*, 1971

Type species: *Chama argentata* KURODA & HABE, 1958 (mt.)

**B575 *A. argentata* (KURODA & HABE in HABE, 1958-b)**

Unmo-zaru-gai

- Type locality: Tosa bay, southern Shikoku; 100-250 m.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, EC5, ECP4-ECP2, P2, East China Sea; South China Sea.
- Habitat: 100-300 m., cemented to rocks and coral.
- Original genus: *Chama*.

Superfamily LUCINOIDEA FLEMING, 1828

Family LUCINIDAE FLEMING, 1828

Subfamily LUCININAE FLEMING, 1828

□ Genus *Codakia* SCOPOLI, 1777

Type species: *Venus orbicularis* LINNAEUS, 1758 (mt.)

**B576 *C. punctata* (LINNAEUS, 1758)**

Kuchibeni-tsuki-gai

- Type locality: 'in *O. Indico*' (Indian Ocean).
- Distribution: Tosa bay (southern Shikoku) and southwards, P5, southern Kyūshū, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Australia, Indo-Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Venus*.

**B577 *C. tigrina* (LINNAEUS, 1758)**

(= *Lucina exasperata* REEVE, 1850)

Tsuki-gai

- Type locality: 'in *O. Indico*' (Indian Ocean).

- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hainan, Red Sea, Indo-Pacific.

- Habitat: intertidal to 20 m., sand.

- Original genus: *Venus*.

**B578 *C. paytenorum* (IREDALE, 1937-a)**

(= *Lucina interrupta* SOWERBY I, 1839 non *Cytherea interrupta* LAMARCK, 1818 in 1815-22)

Uraki-tsuki-gai

- Type locality: Lord Howe island, Queensland, Australia.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Indo-Pacific, Australia.
- Habitat: intertidal to 30 m., sand.
- Original genus: *Lentillaria*.

□ Genus *Epikodakia* IREDALE, 1930

Type species: *Epikodakia conssettiana* IREDALE, 1930 (o. d.)

**B579 *E. bella* (CONRAD, 1837-a)**

(= *Lucina divergens* PHILIPPI, 1850; *L. fibula* REEVE, 1852; *L. ramulosa* GOULD, 1850; *L. (Codakia) munda* A. ADAMS, 1856-b; *L. reevei* DESHAYES, 1863; *L. minuata* DESHAYES, 1863)

Hime-tsuki-gai

- Type locality: California, USA (fossil).
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Australia, Indo-Pacific, Hawaii.
- Habitat: intertidal to 20 m., sand and coral sand.
- Original genus: *Lucina*.

**B580 *E. delicatula* (PILSBRY, 1904-c)**

Umi-asa (= Kaiso-gai)

- Type locality: 'Riukiu' (Ryūkyū islands).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2; southeast Asia.
- Habitat: intertidal to 20 m., fine sand and coral sand.
- Original genus: *Codakia* (as ssp. of *C. bellula*).

**B581 *E. pygmaea* HAYAMI & KASE, 1993**

Kobito-umi-asa

- Type locality: sediments in 'Fool's Palace' cave, Shimoji island (Miyako group, Okinawa prefecture).
- Distribution: Ryūkyū islands (Ie; Shimoji; Irabu).
- Habitat: subtidal in caves.

□ Genus *Pillucina* PILSBRY, 1921-a

Type species: *Pillucina spaldingi* PILSBRY, 1921 (o. d.)

Subgenus *Pillucina s. str.*

**B582 *P. (P.) pisidium* (DUNKER, 1860)**

( = *Lucina parvula* GOULD, 1861)

Ume-no-hana-gai

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: southern Hokkaidō (KURODA & HABE, 1981) and southwards, Tsugaru peninsula, P10-P5, Japan Sea (J4-J1), EC5, ECP4-ECP2, P2, East China Sea.
- Habitat: intertidal to 30 m., sand and mud in bays.
- Original genus: *Lucina*.

B583 *P. (P.) neglecta* HABE, 1960-a

Kobore-ume

- Type locality: Tanabe bay, Kii peninsula (central Honshū).
- Distribution: Mie prefecture (off Yokkaichi; off Tsu, 10-30 m. MATSUMOTO, 1979) and westwards, Kii strait, Seto inland sea, Japan Sea (Nanao bay and westwards; off Tajima, Hyōgo prefecture K. ITŌ, 1967).
- Habitat: 10-30 m., sandy mud in bays.

Subgenus *Sydlorina* IREDALE, 1930

Type species: *Sydlorina symbolica* IREDALE, 1930 (o. d.)

B584 *P. (S.) yamakawai* (YOKOYAMA, 1920)

( = *Ctena transversa* DALL, BARTSCH & REHDER, 1938)

Ara-ume-no-hana

- Type locality: Shimo-miyata, Miura City, eastern Sagami bay (fossil).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (northern Niigata prefecture, J3-J1), EC5, ECP4-ECP2, East China Sea; China, tropical Pacific.
- Habitat: 5-150 m., sandy mud.
- Original genus: *Lucina*.

□ Genus *Wallucina* IREDALE, 1930

Type species: *Lucina jacksonensis* E. A. SMITH, 1885 (o. d.)

B585 *W. striata* (TOKUNAGA, 1906)

( = *Lucina contraria auct. non* DUNKER, 1846; *Loripes lamyi* CHAVAN, 1938)

Chijimi-ume

- Type locality: Ōji, Tōkyō City (fossil).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2, East China Sea; South China Sea.
- Habitat: intertidal to 300 m., fine sand and mud.
- Original genus: *Lasaea*.

B586 *W. izuensis* OKUTANI & MATSUKUMA, 1982

Utsugi-no-hana

- Type locality: 'Tsukuba' sta. 20, off Susaki, Izu peninsula, central Honshū: 34° 37.4' N., 138° 58.8' E. - 34° 37.2' N., 138° 58.9' E., 111-123 m.
- Distribution: southeastern Izu peninsula (60-120 m.),

Sagami bay (Hyōtan-se and Takase banks, 115-230 m. OKUTANI, 1972).

□ Genus *Loripes* POLI, 1791

Type species: *Tellina lactea* POLI, 1791 *non* LINNAEUS, 1758 (s. d. GRAY, 1847; = *Amphidesma lucinalis* LAMARCK, 1818)

B587 *L. rotata* GOULD, 1861 in 1859-61

- Type locality: 'Loo Choo' (Okinawa).
- Distribution: 'Pacific coast at 26° N.' (KURODA & HABE, 1952-a); Okinawa (KURODA, 1960).

□ Genus *Bellucina* DALL, 1901-a

Type species: *Parvilucina eucosmia* DALL, 1901 (o. d.; = *Lucina semperiana* ISSEL, 1869)

B588 *B. civica* (YOKOYAMA, 1927)

( = *Dentilucina hedleyi* PRASHAD, 1932; *Cardium civia* HABE, 1964 *nom. null.*)

Mutsuki-ume

- Type locality: Nagaya, Kosaka village, Ishikawa prefecture (fossil).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Sado island, J3-J1), EC5, ECP4-ECP2, P2, East China Sea; South China Sea, Indonesia.
- Habitat: 50-400 m., fine sand.
- Original genus: *Cardium*.

B589 *B. levukana* (E. A. SMITH, 1885)

- Type locality: off Levuka, Fiji islands, 12 fms.
- Distribution: 'Pacific coast at 31° N.' (KURODA & HABE, 1952-a).
- Original genus: *Lucina* (*Codakia*).

□ Genus *Mesolinga* CHAVAN, 1951

Type species: *Lucina plebeia* CONTEJEAN, 1859 *non* GIEBEL, 1856 (o. d.; = *Mesolinga typica* CHAVAN, 1952)

B590 *M. soliditesta* OKUTANI & HASHIMOTO, 1997

Fuku-suke-tsuki-gai

- Type locality: Kanesu-no-se Bank, southern Suruga bay, central Honshū: 34° 17.6' N., 138° 14.86' E., 363 m.
- Distribution: recorded only from type locality.

Subfamily MYRTEINAE CHAVAN, 1969

□ Genus *Myrtea* TURTON, 1822

Type species: *Venus spinifera* MONTAGU, 1803 (mt.) (= *Cyrachaea* LEACH, 1847; *Eulopia* DALL, 1901)

Subgenus *Myrtea s. str.*

B591 '*M. (M.) minima* OKUTANI, 1964-a

Keshi-tsubu-tsuki-gai

- Type locality: Enshū-nada (off Shizuoka prefecture, central Honshū): 34° 25.37' N., 137° 58.5' E., 620 m.
- Distribution: recorded only from type locality.

**B592 *M. (M.) circinata* A. ADAMS, 1862-b**

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: recorded only from type locality.

**B593 *M. (M.) decussata* A. ADAMS, 1862-b**

- Type locality: 'Tabu-Sima' (Tobishima, Japan Sea); 25 fms.
- Distribution: recorded only from type locality.

**B594 *M. (M.) delicatula* A. ADAMS, 1862-b**

- Type locality: Korea strait, 46 fms.
- Distribution: recorded only from type locality.

**B595 *M. (M.) fimbriatula* A. ADAMS, 1862-b**

- Type locality: 'Tabu-Sima' (Tobishima, Japan Sea); 25 fms.
- Distribution: recorded only from type locality.

**B596 *M. (M.) gibba* A. ADAMS, 1862-b**

- Type locality: Tsushima, western Japan Sea; 25 fms.
- Distribution: recorded only from type locality.

**B597 *M. (M.) lamellata* A. ADAMS, 1862-b**

- Type locality: Tsushima, western Japan Sea; 26 fms.
- Distribution: recorded only from type locality.

**B598 *M. (M.) obesula* A. ADAMS, 1862-b**

- Type locality: 'Tabu-Sima' (Tobishima, Japan Sea); 25 fms.
- Distribution: recorded only from type locality.

**B599 *M. (M.) plicatula* A. ADAMS, 1862-b**

- Type locality: Tsushima, western Japan Sea, 26 fms., and 'Mino-Sima' (Mishima, Japan Sea), 63 fms.
- Distribution: recorded only from type locality.

**B600 *M. (M.) reticulata* A. ADAMS, 1862-b**

- Type locality: Port Hamilton (Kyobunto island, near Gehaku lighthouse, southern Korea), 7 fms., and off Mishima (Japan Sea), 63 fms.
- Distribution: recorded only from type localities.

**Subgenus *Notomyrtea* IREDALE, 1930**

Type species: *Myrtea botanica* HEDLEY, 1918 (o. d.)

**B601 *M. (N.) soyoae* (HABE, 1953-d)**

Watazoko-tsuki-gai

- Type locality: 'Sōyō-Maru' sta. 504, off Oki islands (Japan Sea): 36° 14' 45" N., 133° 04' 45" E., 106 m., shell and gravel bottom.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Sado island, J3-J1), EC5, East China Sea.
- Habitat: 30-200 m., fine sand and mud.

□ Genus *Lucinoma* DALL, 1901-a

Type species: *Lucina filosa* STIMPSON, 1851 (o. d.) (Refs.: Okutani & Hashimoto, 1997)

**B602 *L. acutilineatum* (CONRAD, 1849-b)**

(= *Lucina annulatum* REEVE, 1850 in 1843-65; *Phacoides annulatus densiliratus* DALL, 1919; *Lucina borealis sensu* YOKOYAMA, 1920 *non* LINNAEUS, 1758; *Woodia concentrica* YOKOYAMA, 1920)

Tsuki-gai-modoki (= Okino-tsuki-gai-modoki)

- Type locality: Oregon, western USA (fossil).
- Distribution: southern Hokkaidō and southwards, Tsugaru peninsula, P10-P5, Japan Sea (J4-J1), EC5, East China Sea; Alaska to southern California.
- Habitat: 10-50 m., in bays; 100-200 m., sand, on continental shelf.
- Original genus: *Lucina*.

**B603 *L. spectabile* (YOKOYAMA, 1920)**

(= *Miltha (Lucinoma) annulata sensu* FUJITA, 1928 *non* REEVE, 1850)

Ō-tsuki-gai-modoki

- Type locality: Koshiha, Kanagawa-ku, Yokohama City (fossil).
- Distribution: northeastern Honshū (Ōtsuchi bay, Iwate prefecture TSUCHIDA & KUROZUMI, 1995-a), Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea.
- Habitat: 50-100 m., mud.
- Original genus: *Lucina*.

**B604 *L. yoshidai* HABE, 1958-b**

Yoshida-tsuki-gai-modoki

- Type locality: 'Sōyō-Maru' sta. 495, off Shimane prefecture, western Honshū (Japan Sea): 35° 17' 00" N., 132° 10' 20" E., 146 m., sand.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and northwards, Sagami bay (OKUTANI, 1962), northeastern Honshū (Ōtsuchi bay TSUCHIDA & KUROZUMI, 1995-a), Japan Sea (off Shimane prefecture, J2-J3).
- Habitat: 100-200 m., sand.

**B605 *L. adamsianum* HABE, 1958-b**

Adamuzu-tsuki-gai-modoki

- Type locality: 'Sōyō-Maru' sta. 484, off Yamaguchi prefecture, western Honshū (Japan Sea): 34° 29' 30" N., 131° 00' 20" E., 93 m., sand.
- Distribution: northeastern Honshū (Ōtsuchi bay TSUCHIDA & KUROZUMI, 1995-a), Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (off central Niigata prefecture, J3-J1), EC5.
- Habitat: 50-150 m., sandy mud.

□ Genus *Gonimyrtea* MARWICK, 1929

Type species: *Loripes concinnus* HUTTON, 1885 (o. d.); = *Loripes icterica* LAMY, 1920)

Subgenus *Gonimyrtea s. str.*

**B607 *G. japonicum* (HABE, 1958-b)**

Maru-tsuki-gai-modoki (= Shikishima-tsuki-gai-modoki)

- Type locality: 'Sōyō-Maru' sta. 481, off Yamaguchi prefecture, western Honshū (Japan Sea): 35° 16' 38" N., 130° 10' 00" E., 143 m., sand.
- Distribution: Japan Sea (Wakasa bay and southwards, J2-J1), East China Sea; Yellow Sea.
- Habitat: 20-200 m., sandy mud.
- Original genus: *Lucinoma*.

Subgenus *Alucinoma* **HABE, 1958-d**

Type species: *Alucinoma soyoae* HABE, 1958 (mt.)

B608 *G. (A.) soyoae* (**HABE, 1958-d**)

Kinuhada-tsuki-gai-modoki

- Type locality: 'Sōyō-Maru' sta. 498, between Oki islands and Shimane prefecture (Japan Sea): 35° 41' 45" N., 132° 46' 30" E.; 139 m., muddy sand.
- Distribution: Mie prefecture (off Owase, 200 m. MATSUMOTO, 1979) and westwards, P6-P5, Japan Sea (off Sado island, J3-J2).
- Habitat: 100-150 m., mud.
- Original genus: *Alucinoma* (*Gonimyrtea*).

B609 *G. (A.) crassiuscula* (**YOKOYAMA, 1927**)

- Type locality: upper Musashino formation, Tōkyō (fossil).
- Distribution: 'Japan Sea coast at 37° N.' (KURODA & HABE, 1952-a).

Subfamily **MILTHINAE CHAVAN, 1969**

□ Genus *Anodontia* **LINK, 1807**

Type species: *Anodontia alba* LINK, 1807 (o. d.; = *Venus edentula* LINNAEUS, 1758)

B610 *A. edentula* (**LINNAEUS, 1758**)

(= *A. alba* LINK, 1807; *Lucina ovum* REEVE, 1850)

Kabura-tsuki-gai

- Type locality: 'in Indiis'.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Australia, Indo-Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Venus*.

B611 *A. pila* (**REEVE, 1850 in 1843-65**)

Tama-kabura-tsuki-gai

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, Indo-Pacific.
- Habitat: littoral, among mangroves.
- Original genus: *Lucina*.

B612 *A. stearnsiana* (**ŌYAMA, 1954**)

(= *Loripes bialata* PILSBRY, 1895 non *Lucina bialata* BELLARDI, 1854; *L. philippiana* YOKOYAMA, 1927 non REEVE, 1850)

Ise-shira-gai

- Type locality: Takanawa, Shiba-kuruma-cho, Tōkyō City (fossil).

- Distribution: southern Hokkaidō and southwards, P10-P5, Seto inland sea (Mukaishima KOMATSU, 1986-a), Japan Sea (central Niigata prefecture, J3-J1), EC5, ECP4-ECP2, P2, East China Sea; China.

- Habitat: intertidal to 20 m., sandy mud among weed.
- Original genus: *Lucina*.

B613 *A. oblonga* (**HEDLEY, 1899**)

- Type locality: Funafuti, Tuvalu islands.
- Distribution: 'Pacific coast at 31° N.' (KURODA & HABE, 1952-a); Indo-Pacific.

□ Genus *Cavatidens* **IREDALE, 1930**

Type species: *Cavatidens omissa* IREDALE, 1930 (o. d.)

B614 *C. imajimai* **HABE in KURODA & HABE, 1981**

Ko-kabura-gai

- Type locality: Kushimoto, Wakayama prefecture (Kii peninsula); sand bottom.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, East China Sea.
- Habitat: 80-120 m., sandy mud.

□ Genus *Austriella* **TENISON-WOODS, 1881**

Type species: *Austriella sordida* TENISON-WOODS, 1881 (o. d.; = *Lucina corrugata* DESHAYES, 1843) (= *Pseudolucina* CHAVAN, 1947; *Eamesiella* CHAVAN, 1951)

B615 *A. corrugata* (**DESHAYES, 1843**)

(= *A. sordida* TENISON WOODS, 1881)

Shiwa-tsuki-gai

- Distribution: southern Okinawa (Iriomote island HABE, 1981-a) and southwards, P2, East China Sea; Philippines, South China Sea, northern Australia, Indonesia.
- Habitat: intertidal to 10 m., sandy mud.
- Original genus: *Lucina*.

Subfamily **DIVARICELLINAE GILBERT, 1967**

□ Genus *Divaricella* **MARTENS, 1880**

Type species: *Divaricella angulata* MARTENS, 1880 (o. d.)

(= *Davaricella sensu* WOODRING, 1925; *Divaricella sensu* ASLANIAN, 1981)

B616 *D. soyoae* (**HABE, 1951-a**)

Sewake-tsuki-gai

- Type locality: 'Sōyō-Maru' sta. 444, off Gotō islands, western Kyūshū: 32° 25' 45" N., 128° 37' 30" E., 194 m., shelly sand.
- Distribution: Bōsō peninsula and southwards, off Kii peninsula, Tosa bay, western Kyūshū.
- Habitat: 100-200 m., fine sand.
- Original genus: *Divalucina*.

Family **FIMBRIIDAE NICOL, 1950**

(Refs.: Iw. Taki & Habe, 1955-b)

□ Genus ***Fimbria* MÜHLFELD, 1811**

Type species: *Fimbria magna* MÜHLFELD, 1811 (o. d.; = *Venus fimbriata* LINNAEUS, 1758)

B617 ***F. fimbriata* (LINNAEUS, 1758)**

Chijimi-kago-gai

- Type locality: 'in *O. Indico*' (Indian Ocean).
- Distribution: Okinawa islands and southwards, ECP2, P2, East China Sea; Philippines, South China Sea, Australia, Indo-Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Venus*.

B618 ***F. soverhii* (REEVE, 1842-d)**

(= *Corbis elegans* DESHAYES, 1843)

Kago-gai

- Type locality: 'ad insulam Negros, Philippinarum (found in loose coral sand on the reefs at low water)'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Arafura Sea, Palau.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Corbis*.

Family **THYASIRIDAE DALL, 1900**

Subfamily **THYASIRINAE DALL, 1900**

□ Genus ***Conchocele* GABB, 1866**

Type species: *Conchocele disjuncta* GABB, 1866 (o. d.; = *Venus bisecta* CONRAD, 1849-b)

B619 ***C. bisecta* (CONRAD, 1849-b)**

(= *C. disjuncta* GABB, 1866; *Thyasira bisecta nipponica* YABE & NOMURA, 1925)

Ōna-gai

- Type locality: Oregon, USA (fossil).
- Distribution: Tosa bay (AZUMA, 1960) and northwards, P5-P10 (Sagami bay OKUTANI, 1962; 1966), Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J5), Hokkaidō (off Cape Erimo KURODA, 1938-b); Alaska to Oregon (USA).
- Habitat: 4-1400 m., mud.
- Original genus: *Venus*.

Notes: see KURODA (1938-b); KANNO (1971).

B620 ***C. compacta* (ISHIZAKI, 1942)**

(= *C. koyamai* HABE in KURODA & HABE, 1981)

- Type locality: 'Takao' (Kaohsiung), Taiwan (fossil).
- Distribution: Kii peninsula (off Cape Shio HABE in KURODA & HABE, 1981) and southwards; Taiwan.
- Habitat: deep water, sand.
- Original genus: *Thyasira*.

□ Genus ***Thyasira* LEACH in LAMARCK, 1818 in 1815-22**

Type species: *Amphidesma flexuosa* LAMARCK, 1818 (o.

d.; = *Tellina flexuosa* MONTAGU, 1803)

(= *Cryptodon* TURTON, 1822; *Prothyasira* IREDALE, 1930)

Subgenus ***Thyasira s. str.***

B621 ***T. (T.) tokunagai* KURODA & HABE, 1951-a**

(= *Cryptodon flexuosa* auct. non MONTAGU, 1803 in 1803-08; *T. gouldii* YABE & NOMURA, 1925 non PHILIPPI, 1845)

Hanashi-gai (= Tokunaga-hanashi)

- Type locality: Ōji, Tōkyō City (fossil).
- Distribution: southern Hokkaidō and southwards, northeastern Honshū (Ōtsuchi bay, Iwate prefecture TSUCHIDA & KUROSUMI, 1995-a), P10-P5 (Kii peninsula KURODA & HABE, 1981), Japan Sea (Awashima, J3-J1), East China Sea; Korea, Yellow Sea, Bo-hai.
- Habitat: 5-300 m., sandy mud.

B622 ***T. (T.) imamurai* OKUTANI, 1962**

Imamura-hanashi-gai

- Type locality: 'Sōyō-Maru' sta. 72, 50 miles off Kushikino, Kyūshū: 31° 31.0' N., 129° 21.0' E., 730-760 m.
- Distribution: Izu islands (off Miyake island, 1080-1205 m. OKUTANI, 1968), Tosa bay (TSUCHIDA, 1994-b), type locality.
- Habitat: 500-1010 m., sand.

B623 ***T. (T.) oblonga* (A. ADAMS, 1862-b)**

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Cryptodon*.

B624 ***T. (T.) japonica* (A. ADAMS, 1862-b)**

- Type locality: 'Okosiri' (Okushiri island, Hokkaidō), 35 fms.
- Distribution: 'Japan Sea coast at 42° N.' (KURODA & HABE, 1952-a).
- Original genus: *Cryptodon*.

B625 ***T. (T.) plicata* (A. ADAMS, 1862-b)**

- Type locality: 'Mino-Sima' (Mishima, Japan Sea); 63 fms.
- Distribution: 'Japan Sea coast at 35° N.' (KURODA & HABE, 1952-a).
- Original genus: *Cryptodon*.

B626 ***T. (T.) ozawai* YOKOYAMA, 1926**

- Type locality: Sado island, Japan Sea (fossil).
- Distribution: 'Japan Sea coast at 37° N.' (KURODA & HABE, 1952-a).

Subgenus ***Philis* FISCHER, 1861**

Type species: *Philis cumingi* FISCHER, 1861 (o. d.)

B627 ***T. (P.) cumingi* (FISCHER, 1861)**

(= *Thyasira kanamarui* HABE, 1951-a)

Otogi-no-hanashi-gai

- Type locality: 'Moluques' (Moluccas (Maluku), Indonesia).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Sado island, J3-J1), EC5, East China Sea; Taiwan, South China Sea, Indonesia.
- Habitat: 30-1220 m., sandy mud.
- Original genus: *Philis*.

□ Genus *Parathyasira* IREDALE, 1930-b

Type species: *Parathyasira resupina* IREDALE, 1930 (o. d.)

B628 *P. kawamura* (HABE, 1951-a)

Kawamura-hanashi-gai

- Type locality: Sagami bay central Honshū; 50-200 m.
- Distribution: Sagami bay and westwards, Suruga bay, Mie prefecture (off Owase MATSUMOTO, 1979), off Kii peninsula (KURODA & HABE, 1981).
- Habitat: 50-200 m., fine sand.
- Original genus: *Thyasira* (*Parathyasira*).

B629 *P. hexangulata* (OKUTANI, 1962)

Rokkaku-hanashi-gai

- Type locality: 'Sōyō-Maru' sta. T28, Sagami bay, central Honshū: 35° 00.8' N., 139° 21.8' E., 1360-1385 m.
- Distribution: Sagami bay (1330-1340 m. OKUTANI, 1966) and westwards, off Kii peninsula (KURODA & HABE, 1981), western Kyūshū.
- Habitat: 50-2000 m., sand.
- Original genus: *Thyasira* (*Parathyasira*).

□ Genus *Maorithyas* FLEMING, 1950

Type species: *Maorithyas marana* FLEMING, 1950 (o. d.)

B630 *M. miyadai* (HABE, 1951-a)

Usu-hanashi-gai

- Type locality: Tashikara bay, Mie prefecture, central Honshū.
- Distribution: Mie prefecture (off Owase MATSUMOTO, 1979) and southwards, P6-P5 (Kii peninsula KURODA & HABE, 1981), Japan Sea (Wakasa bay, J2-J1), EC5, ECP4-ECP2, P2, East China Sea; Indonesia.
- Habitat: 10-140 m., fine sand.
- Original genus: *Thyasira* (*Maorithyas*).

B631 *M. yamatotaiensis* OKUTANI & IZUMIDATE, 1992

Yamato-usu-hanashi-gai

- Type locality: Yamatotai seamount, Japan Sea: 39° 23.53' N., 135° 43.51' E., 375 m.
- Distribution: central Japan Sea.
- Habitat: 300-500 m., sand.

□ Genus *Leptaxinus* VERRILL & BUSH, 1898

Type species: *Leptaxinus minutus* VERRILL & BUSH,

1898 (o. d.)

B632 *L. oyamai* HABE, 1962-b

(= *Thyasira trigonata* YABE & NOMURA, 1925 non YOKOYAMA, 1922; *Leptaxinus rotundatus sensu* HABE, 1961-a non YOKOYAMA, 1926)

Maru-hanashi-gai

- Type locality: off Tomioka, Amakusa island, western Kyūshū; 20-30 m., fine sand.
- Distribution: off Fukushima prefecture and westwards, P8-P5 (Kii peninsula KURODA & HABE, 1981), Japan Sea (central Niigata prefecture, J3-J1), EC5.
- Habitat: 10-100 m., fine sand and mud.

B633 *L. elegans* OKUTANI, 1962

Fukami-maru-hanashi-gai

- Type locality: 'Sōyō-Maru' sta. T28, Sagami bay, central Honshū: 35° 00.8' N., 139° 21.8' E., 1360-1385 m.
- Distribution: Tosa bay (TSUCHIDA, 1994-b), Sagami bay.
- Habitat: 100-1801 m., sand.

Subfamily AXINOPSIDINAE BERNARD, 1983

□ Genus *Axinopsida* KEEN & CHAVAN in CHAVAN, 1951

Type species: *Axinopsis orbiculata* G. O. SARS, 1878 (o. d.)

(= *Axinopsis* G. O. SARS, 1878 non TATE, 1868)

B634 *A. subquadrata* (A. ADAMS, 1862-b)

Yuki-yanagi-gai

- Type locality: 'Coast of Manchuria' (China), 20 fms.
- Distribution: Bōsō peninsula and northwards, P7-P10, Japan Sea (off Mishima, J2-J5), Hokkaidō, Okhotsk Sea, OP; continental coast of Japan Sea.
- Habitat: 5-300 m., sandy mud.
- Original genus: *Cryptodon* (*Clausina*).

B635 *A. suborbicularis* (A. ADAMS, 1862-b)

- Type locality: 'Amiva bay' (Aniwa bay, Sakhalin), 17 fms.
- Distribution: 'Japan Sea coast at 46° N.' (KURODA & HABE, 1952-a); Sakhalin.

B636 *A. viridis* (DALL, 1901-c)

- Type locality: Iliuliuk, Alaska.
- Distribution: Japan Sea (Fukui prefecture FURUKAWA & KUBOTA, 1947); 'Japan Sea coast, 36° N-?' (KURODA & HABE, 1952-a); Alaska.
- Original genus: *Axinopsis*.

B637 *A. rubiginosa* OKUTANI & IZUMIDATE, 1992

Sabi-tsuki-hanashi-gai

- Type locality: Yamatotai seamount, Japan Sea: 39° 23.60' N., 135° 40.54' E., 363 m.
- Distribution: central Japan Sea.
- Habitat: 200-400 m., sand.

□ Genus *Axinulus* VERRILL & BUSH, 1898

Type species: *Axinulus brevis* VERRILL & BUSH, 1898 (o. d.)

B638 *A. simplex* (VERRILL & BUSH, 1897)

Yogore-hanashi-gai

- Type locality: USFC sta. 1093, North Atlantic.
- Distribution: Sagami bay (710-770 m. OKUTANI, 1962), Suruga bay; eastern USA.
- Original genus: *Axinopsis*.

B639 *A. kelliiformis* OKUTANI, 1962

Sagami-maru-hanashi-gai

- Type locality: 'Sōyō-Maru' sta. 2, Sagami bay, central Honshū: 35° 05.1' N., 139° 33.3' E., 700-750 m.
- Distribution: Sagami bay (855-865 m. OKUTANI, 1968; type locality).

B640 *A. obliqua* OKUTANI, 1968

Naname-hanashi-gai

- Type locality: 'Sōyō-Maru' sta. T6, Sagami bay, central Honshū: 35° 02.9' N., 139° 17.8' E., 1395 m.
- Distribution: Tosa bay (TSUCHIDA, 1994-b), Suruga bay (ŌTA, 1983), Sagami bay (1510 m. OKUTANI, 1968; type locality).

Family UNGULINIDAE H. & A. ADAMS, 1857 in 1853-58

(= DIPLODONTIDAE DALL, 1895)

□ Genus *Cycladicama* VALENCIENNES in ROUSSEAU, 1854

Type species: *Cycladicama luciniformis*

VALENCIENNES, 1854 (o. d.; = *Cyrenoida oblonga* HANLEY, 1856)

(= *Joannisia* DALL, 1895; *Joannisiella* DALL, 1895; *Toralimya* IREDALE, 1936; *Cycladichama sensu* HABE, 1964 err.; *Cyclachama sensu* HABE & KOSUGE, 1966 err.)

B641 *C. cumingii* (HANLEY, 1844-c)

(= *Joannisiella semiasperoides sensu* KIRA, 1959 non NOMURA, 1932)

Shiogama

- Type locality: 'Guacomayo, Central America; in coral sand'.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, China (Fujian), southeast Asia.
- Habitat: 10-175 m., sandy mud.
- Original genus: *Tellina*.

B642 *C. semiasperoides* (NOMURA, 1932)

Hira-shiogama (= Maru-shiogama)

- Type locality: Koshiba, Kanazawa-ku, Yokohama City (fossil).

- Distribution: southwestern Hokkaidō and southwards, P10-P5 (Mie prefecture MATSUMOTO, 1979; Kii peninsula KURODA & HABE, 1981), western Kyūshū.

- Habitat: 10-100 m., sand.

- Original genus: *Diplodonta*.

B643 *C. nomurai* (HABE, 1960-b)

(= *Diplodonta semiaspera* YOKOYAMA, 1920 non PHILIPPI, 1836)

- Type locality: Tomioka, Amakusa island, western Kyūshū.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5.
- Habitat: 10-70 m., coarse sand and stones.
- Original genus: *Joanisiella*.

B644 *C. abbreviata* (GOULD, 1861 in 1859-61)

Hime-shiogama

- Type locality: Hong Kong harbour.
- Distribution: western Seto inland sea, P5, EC5; South China Sea, Taiwan, Hong Kong.
- Habitat: 10-30 m., mud.
- Original genus: *Mysia*.

B645 *C. coreensis* (ADAMS & REEVE, 1850 in 1848-50) Ō-bai

- Type locality: Korea.
- Distribution: Bōsō peninsula and westwards, P7-P5, EC5; Korea.
- Habitat: 10-50 m., sandy mud.
- Original genus: *Cyrenoida*.

B646 *C. lunaris* (YOKOYAMA, 1927)

Mangetsu-shiogama

- Type locality: Shinagawa, Tōkyō City (fossil).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (northern Niigata prefecture, J2-J1), EC5; Korea, Yellow Sea.
- Habitat: 5-500 m., in bays.
- Original genus: *Diplodonta*.

B647 *C. tsuchii* (YAMAMOTO & HABE, 1959)

Atsu-shiogama

- Type locality: Yura bay, Wakayama prefecture, central Honshū.
- Distribution: Mutsu bay (Aomori prefecture) and southwards, P10-P5, Japan Sea (central Niigata prefecture, J3-J1), EC5, western Seto inland sea, East China Sea; China.
- Habitat: 10-150 m., sandy mud.
- Original genus: *Joanisiella*.

□ Genus *Felaniella* DALL, 1899-a

Type species: *Mysia (Felania) usta* GOULD, 1861 (o. d.)

Subgenus *Felaniella s. str.*

**B648 *F. (F.) usta* (GOULD, 1861 in 1859-61)**

(= *F. olivacea* BARTSCH, 1929)

Uso-shijimi

- Type locality: 'Hakodadi Bay (Hakodate, Hokkaidō), in sandy mud, 8 fathoms'.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and northwards, P8-P10, Japan Sea (Wakasa bay, J2-J4), OP, Kuril islands, Okhotsk Sea; Yellow Sea, China (Shandong).
- Habitat: 10-150 m., fine sand.
- Original genus: *Mysia* (*Felania*).

**B649 *F. (F.) sowerbyi* KURODA & HABE, 1951-a**

(= *Felania minor* SOWERBY III, 1903 non *Diplodonta minor* DALL, 1900)

Ume-no-hana-modoki

- Type locality: Japan.
- Distribution: western Kii peninsula (KURODA & HABE, 1981), Ōsaka bay, Seto inland sea, P5, EC5, East China Sea; Taiwan, South China Sea.
- Habitat: intertidal, sandy mud.

Subgenus *Zemysia* FINLAY, 1926

Type species: *Lucina zelandica* GRAY, 1835 (o. d.)

**B650 *F. (Z.) ohtai* KASE & MIYAUCHI in KASE, MIYAUCHI & AMANO, 1996**

Sudare-uso-shijimi

- Type locality: off Yuchi, Wakkanai City, Hokkaidō; 28 m.
- Distribution: Recent record only from type locality; fossil records from Akita and Niigata prefectures.

□ Genus *Diplodonta* BRONN, 1831

Type species: *Venus lupinus* BROCCCHI, 1814 non LINNAEUS, 1758 (s. d. HERRMANNSEN, 1846; = *Tellina rotundata* MONTAGU, 1803)

(= *Taras* RISSO, 1826 nom. dub.; *Mysia* LEACH in BRONN, 1827 non LAMARCK, 1816; *Glocomena* LEACH in GRAY, 1852; *Mittrea* GRAY, 1854)

**B651 *D. gouldi* YOKOYAMA, 1920**

Futaba-shira-gai

- Type locality: Kami-miyata, Miura City, Kanagawa prefecture (near Tōkyō) (fossil).
- Distribution: southern Hokkaidō and southwards, Tsugaru peninsula, P10-P5, Japan Sea (J4-J1), EC5.
- Habitat: 10-150 m., sand.

**B652 *D. figlina* (GOULD, 1861 in 1859-61)**

(= *D. figlina sensu* HABE, 1977 err.)

Hai-iro-futaba-shira-gai

- Type locality: 'dredged off east coast of Japan, lat. 37°, in coarse, black sand, 20 fathoms'.
- Distribution: northeastern Honshū (Miyagi prefecture) and northwards, P8-P10, J5; Sakhalin.

- Habitat: 10-30 m., sand.

- Original genus: *Mysia*.

**B653 *D. bullata* DUNKER, 1865 in 1858-70**

- Type locality: Kagoshima, southern Kyūshū.
- Distribution: 'Pacific coast, 0°-33° N.' (KURODA & HABE, 1952-a).

**B654 *D. obliqua* (GOULD, 1861 in 1859-61)**

- Type locality: 'Loo Choo' (Okinawa).
- Distribution: 'Pacific coast at 26° N.' (KURODA & HABE, 1952-a).
- Original genus: *Mysia*.

□ Genus *Phlyctiderma* DALL, 1889

Type species: *Diplodonta semiaspera* PHILIPPI, 1836 (o. d.)

**B655 *P. japonicum* (PILSBRY, 1895-a)**

Yae-ume

- Type locality: Japan.
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4; continental coast of Japan Sea.
- Habitat: intertidal to 20 m., boring in hard mud.
- Original genus: *Diplodonta*.

□ Genus *Minipisum* HABE, 1961-c

Type species: *Minipisum japonicum* HABE, 1961 (mt.)

**B656 *M. japonicum* HABE, 1961-c**

Miso-hagi-gai

- Type locality: entrance of Ago bay, Mie prefecture, central Honshū.
- Distribution: Mie prefecture (Shima peninsula), Kii peninsula (KURODA & HABE, 1981).
- Habitat: 30 m., sand.

Superfamily GALEOMMATOIDEA GRAY, 1840

Family GALEOMMATIDAE GRAY, 1840

□ Genus *Galeomma* SOWERBY in TURTON, 1825

Type species: *Galeomma turtoni* SOWERBY I, 1825 (s. d. GRAY, 1847)

(= *Hiatella* DA COSTA, 1828; *Parthenope* SCACCHI, 1823 non WEBER, 1795)

**B657 *G. purpurea* HABE in KURODA & HABE, 1981**

Usu-murasaki-kizami-uroko-gai

- Type locality: off Minabe, Kii peninsula, central Honshū; sandy mud, in lobster net.
- Distribution: recorded only from type locality.

□ Genus *Paralepida* DALL, 1899-b

Type species: *Galeomma formosum* DESHAYES, 1855 (o. d.)

(= *Lepirodes* FISCHER, 1887 non GUÉNÉE, 1854)

**B658 *P. takii* (KURODA, 1945 in 1943-45)**



(= *Ehippodonta murakamii sensu* HABE, 1961 non KURODA, 1945)

- Type locality: Tojima, Banshozaki (cape), Shirahama, western Kii peninsula, central Honshū.
- Distribution: Sagami bay and westwards, P6-P5, Seto inland sea, EC5, ECP4; Hong Kong.
- Habitat: intertidal to 200 m., under rocks; on sand and mud.
- Original genus: *Galeomma* (*Paralepida*).

□ Genus *Galeomella* HABE, 1958-e

Type species: *Galeomella utinomii* HABE, 1958 (mt.)

B659 *G. utinomii* HABE, 1958-e

Ōgi-uroko-gai

- Type locality: Tomioka, Amakusa island, western Kyūshū.
- Distribution: western Tōkyō bay, P7-P5, Seto inland sea, Japan Sea (Noto peninsula, J2-J1), EC5.
- Habitat: subtidal to 20 m., fine sand.

□ Genus *Ehippodonta* TATE, 1887

Type species: *Scintilla? lunata* TATE, 1887 (s. d. MITCHELL, 1890)

Subgenus *Ehippodonta s. str.*

B660 *E. (E.) gigas* KUBO, 1996-a

Ō-tsuya-uroko-gai

- Type locality: Yone, Tomigusuku district, southwestern Okinawa.
- Distribution: recorded only from type locality.

Subgenus *Ehippodontina* KURODA, 1945 in 1943-45

Type species: *Ehippodontina murakamii* KURODA, 1945

B661 *E. (Ehippodontina) murakamii* KURODA, 1945 in 1943-45

Usumono-uroko-gai

- Type locality: Ōtani, Takaoka district, Kōchi prefecture (Tosa bay, southern Shikoku); on coral.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and westwards, Tosa bay, northwestern Kyūshū.
- Habitat: 10-30 m., in fine sand among coral.

□ Genus *Pseudogaleomma* HABE, 1964-c

Type species: *Galeomma japonica* A. ADAMS, 1862-b (o. d.)

B662 *P. japonica* (A. ADAMS, 1862-b)

Nippon-mame-agemaki

- Type locality: 'Mino-Sima' (off Mishima, Japan Sea); 63 fms. (given as 'Tobishima in Japan Sea' in error by KURODA et al., 1971: 411).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), Seto inland sea, EC5, ECP4-ECP2; South China Sea, Hainan.

- Habitat: 5-50 m., mud.
- Original genus: *Galeomma*.

B663 *P. castanea* HABE, 1976-a

Kuri-iro-uroko-gai

- Type locality: Kubo-ura, Okinoshima (island), southwestern Shikoku.
- Distribution: recorded only from type locality.

B664 *P. flava* HABE, 1977-b

Ki-iro-uroko-gai

- Type locality: Shioya, Chiran district, Kagoshima prefecture, southern Kyūshū.
- Distribution: southern Kagoshima prefecture.
- Habitat: intertidal, in tide pools.

B665 *P. sakashitai* HABE, 1977-b

Meno-kawa-gai

- Type locality: Shioya, Chiran district, Kagoshima prefecture, southern Kyūshū.
- Distribution: southern Kagoshima prefecture.

□ Genus *Yamamotolepida* HABE, 1976-a

Type species: *Yamamotolepida semicircula* HABE, 1976 (o. d.)

B666 *Y. semicircula* HABE, 1976-a

Yamamoto-uroko-gai

- Type locality: (off) Sakai, Minabe, Kii peninsula, central Honshū.
- Distribution: Kii peninsula and westwards, Seto inland sea, Kyūshū (Ōita prefecture).
- Habitat: intertidal to 50 m., rubble.

□ Genus *Scintilla* DESHAYES, 1855-e

Type species: *Scintilla philippinensis* DESHAYES, 1855-e (s. d. STOLICZKA, 1871)

B667 *S. philippinensis* DESHAYES, 1855-e

Bekkō-mame-agemaki

- Type locality: '*Insula Zebuensis Philippinarum*' (Cebu island, Philippines).
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, South China Sea, Beibu gulf.
- Habitat: intertidal to 30 m., sand and mud.

B668 *S. violescens* KURODA & Iw. TAKI, 1961

(= *S. ione* KURODA & Iw. TAKI *sensu* KURODA et al., 1971)

Inazuma-mame-agemaki

- Type locality: Shirahama, Kii peninsula, central Honshū (Wakayama prefecture).
- Distribution: Sagami bay and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5.
- Habitat: subtidal to 100 m., sandy mud.

B669 *S. vitrea* DESHAYES, 1855-e

Mame-agemaki

- Type locality: '*Insula Burias Philippinarum*' (Burias island, Philippines).
- Distribution: Kii peninsula and southwards, P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, China (Fujian).
- Habitat: intertidal to 50 m., coarse sand and stones.

**B670 *S. timoriensis* DESHAYES, 1855-e**

(= *S. timorensis* auct., err.)

Iō-no-shitatarī

- Type locality: '*Insula Timoriensis*' (Timor island, Indonesia).
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Indonesia, western Pacific.
- Habitat: subtidal to 10 m., sand.

**B671 *S. solidula* DESHAYES, 1855-e**

Kata-mame-agemaki

- Type locality: '*Tamar, Insula Bohol Philippinarum*' (Tamar, Bohol, Philippines).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea.
- Habitat: subtidal to 60 m., sand.

**B672 *S. rosea* DESHAYES, 1855-e**

Bara-iro-mame-agemaki

- Type locality: '*Zambalis, in insula Luzonica Philippinarum*' (Zambalis, Luzon, Philippines).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, western Pacific.
- Habitat: intertidal, coarse sand and stones.

**B673 *S. semiclausula* SOWERBY II, 1865**

Chichi-iro-mame-agemaki (= Meno-mame-agemaki)

- Type locality: 'Borneo'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, tropical Pacific.
- Habitat: intertidal, coarse sand and stones.

**B674 *S. nitidella* HABE, 1961-a**

(= *S. vitrea* sensu HABE, 1961-a non DESHAYES, 1855-e)

Tsuya-mame-agemaki

- Type locality: Hosono, Tanabe bay, Kii peninsula, central Honshū (Wakayama prefecture).
- Distribution: Mutsu bay (Aomori prefecture) and southwards, P9-P5, Japan Sea (Noto peninsula, J2-J1), EC5; Hong Kong.
- Habitat: intertidal to 100 m., sand and mud.

**B675 *S. rugata* (KURODA & HABE in KURODA *et al.*, 1971)**

Shiwa-mame-agemaki

- Type locality: 2 km. west of Kamekisho, Sagami bay,

central Honshū; 60-80 m.

- Distribution: recorded only from type locality.
- Original genus: *Achasma*.

**B676 *S. thoracica* GOULD, 1861 in 1859-61**

- Type locality: 'Ousima' (Amami Ōshima).
- Distribution: Amami islands and southwards, ECP3-ECP2.

**Note:** Kohaku-mame-agemaki (= Bara-iro-mame-agemaki) has been cited in Japanese literature as *Scintilla ambigua* DESHAYES, 1855-e; the type of the latter is a French fossil, however, and the present authors doubt whether this name is applicable to Recent material from Japan.

□ Genus *Scintillona* FINLAY, 1926

Type species: *Spaniorinus zelandicus* ODHNER, 1924 (o. d.)

**B677 *Scintillona stigmatica* (PILSBRY, 1921-a)**

Ō-bunbuku-yadori-gai

- Type locality: Hilo, Hawaii.
- Distribution: Kii peninsula (YAMAMOTO & HABE, 1974) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines.
- Habitat: 10-50 m., coarse sand and stones; commensal on echinoid *Brissus latecarinatus* (LESKE).
- Original genus: *Solecardia*.

□ Genus *Sagamiscintilla* HABE, 1975

(= *Scintillorbis* KURODA & HABE in KURODA *et al.*, 1971 non DALL, 1889)

Type species: *Scintillorbis opalinus* KURODA & HABE, 1971 (o. d.)

**B678 *S. opalina* (KURODA & HABE in KURODA *et al.*, 1971)**

Maru-mame-agemaki

- Type locality: Amadaiba-Kannon-tsukadashi, Sagami bay, central Honshū; 75-85 m.
- Distribution: Sagami bay.
- Habitat: 70-100 m., coarse sand and stones.
- Original genus: *Scintillorbis*.

**Notes:** possibly also occurs in Hong Kong (BERNARD *et al.*, 1993: 60).

**B679 *S. thalassemicola* (HABE, 1962-c)**

Midori-yumushi-yadori-gai

- Type locality: Tomioka, Amakusa island, western Kyūshū.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and westwards, western Kyūshū.
- Habitat: intertidal among pebbles, on Echiurid *Thalassema mucosum* IKEDA.

□ Genus *Devonia* WINCKWORTH, 1930

Type species: *Synapticola perrieri* MALARD, 1904 (o. d.)

( = *Synapticola* MALARD, 1904 non VOIGT, 1892)

Subgenus *Ohshimaia* HABE, 1977-a

Type species: *Entovalva semperi* ŌSHIMA, 1930 (o. d.)

B680 *D. (O.) semperi* (ŌSHIMA, 1930)

Hinano-zukin

• Type locality: Tomoe bay, Tomioka, Amakusa island, western Kyūshū.

• Distribution: northwestern Kyūshū (Hakata bay; Amakusa); Yellow Sea, South China Sea, Hong Kong, China (Shandong).

• Habitat: intertidal to 10 m., mud, commensal with holothurian *Protankyra bidentata*.

• Original genus: *Entovalva*.

B681 *D. (O.) ohshimai* KAWAHARA, 1942

Hinomaru-zukin (= Hinomaru-hinano-zukin)

• Type locality: Ishigaki island (Okinawa prefecture), mouth of Nagura river.

• Distribution: Ishigaki island.

• Habitat: intertidal, mud; commensal with *Leptosynapta ooplax* (MARENZELLER).

Family LASAEIDAE GRAY, 1847

Subfamily LASAEINAE GRAY, 1847

□ Genus *Lasaea* LEACH in BROWN, 1827

Type species: *Cardium rubrum* MONTAGU, 1803 (mt.)

B682 *L. undulata* (GOULD, 1861 in 1859-61)

( = *L. nipponica* KEEN, 1938; *Kellia minutissima* HABE, 1960)

Chiri-hagi-gai

• Type locality: 'Kagosima' (Kagoshima, southern Kyūshū).

• Distribution: southwestern Hokkaidō and southwards, P10-P5, Seto inland sea, Japan Sea (Oga peninsula, J4-J1), EC5, ECP4-ECP2, P2, East China Sea; Yellow Sea, China (Shandong), Korea, Hawaii.

• Habitat: intertidal, attached to the byssus of *Septifer virgatus* (no. B101).

• Original genus: *Kellia*.

Subfamily ERYCININAE DESHAYES, 1850

□ Genus *Squillaconcha* KURODA & HABE in KURODA *et al.*, 1971

Type species: *Kellia subsinuata* LISCHKE, 1871 (o. d.)

B683 *S. subsinuata* (LISCHKE, 1871 in 1868-73)

Ko-fuji-gai

• Type locality: 'Nagasaki' (western Kyūshū).

• Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Sado island, J3-J1), EC5.

• Habitat: attached by byssus to abdominal plates of crustacean *Squilla oratoria* DE HAAN.

• Original genus: *Kellia*.

B684 *S. sagamiensis* (HABE, 1961-b)

Sagami-ko-fuji-gai

• Type locality: Zushi City, eastern Sagami bay, central Honshū.

• Distribution: Sagami bay and westwards, Kii peninsula (KURODA & HABE, 1981), Seto inland sea (Onomichi).

• Habitat: intertidal in sand on unknown host.

• Original genus: *Pseudopythina*.

B685 *S. compressa* (DALL, 1899-b)

Kita-no-ko-fuji-gai

• Type locality: south of Nunivak island to Sitka, Alaska.

• Distribution: north of Hokkaidō (HABE & ITŌ, 1965-a); Alaska.

• Original genus: *Erycina* (*Pseudopythina*).

□ Genus *Erycina* LAMARCK, 1805

Type species: *Erycina pellucida* LAMARCK, 1805 (s. d. STOLICZKA, 1871)

B686 *E.? nipponensis* NOMURA & HATAI, 1940

• Type locality: Kyurokushima (island), Japan Sea (off Aomori prefecture, northern Honshū).

• Distribution: 'Japan Sea coast at 41° N.' (KURODA & HABE, 1952-a).

Family KELLIIDAE FORBES & HANLEY, 1849

Subfamily KELLIINAE FORBES & HANLEY, 1849

□ Genus *Kellia* TURTON, 1822

Type species: *Mya suborbicularis* MONTAGU, 1803 (s. d. RÉCLUZ, 1844)

B687 *K. japonica* PILSBRY, 1895-a

Dobu-shijimi-modoki

• Type locality: Japan.

• Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Sado island, J3-J1), EC5; Korea, Yellow Sea.

• Habitat: intertidal to 50 m., attached by byssus to shells and stones.

B688 *K. subrotundata* (DUNKER, 1882)

Sumomo-hana-gai

• Type locality: '*prope Tokio*' ('from Tōkyō').

• Distribution: Bōsō peninsula and southwards, P7-P5, EC5.

• Habitat: 10-50 m., fine sand.

• Original genus: *Lepton*.

B689 *K. porculus* PILSBRY, 1904-c

Kohaku-no-tsuyu

• Type locality: Hirado island, Nagasaki prefecture, western Kyūshū.

• Distribution: northeastern Honshū (Ōtsuchi bay TSUCHIDA & KUROZUMI, 1995-a) and southwards, P9-P5, Japan Sea (Sado island, J3-J1), EC5, Seto inland sea; Yellow Sea, Korea, Hong Kong, China (Shandong).

- Habitat: intertidal to 125 m., attached by byssus to shells & stones.

**B690 *K. laperousii* (DESHAYES, 1839)**

Yokonaga-kohaku-no-tsuyu (= Kita-no-tsuyu-gai)

- Type locality: none designated.
- Distribution: Hokkaidō and northwards, P10, OP, Kuril islands, Okhotsk Sea; Bering Sea.
- Habitat: subtidal to 70 m., fine sand.
- Original genus: *Chironia*.

**B691 *K. tsujitai* HABE, 1959-a**

Tsujita-kohaku-no-tsuyu

- Type locality: Ariake inland sea, western Kyūshū.
- Distribution: Kii peninsula (Tanabe bay KURODA & HABE, 1981) and westwards, Seto inland sea, P5, western Kyūshū (Amakusa KURODA & HABE, 1981; Hakata bay; Ariake inland sea; Ōmura bay).
- Habitat: 10-30 m., sandy mud in bays.

**B692 *K. subelliptica* YOKOYAMA, 1924**

Koban-kohaku-no-tsuyu

- Type locality: Dokanyama, Tōkyō City (fossil).
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5.
- Habitat: intertidal to 20 m., sand.

□ Genus *Hyalokellia* HABE, 1960-a

Type species: *Hyalokellia polita* HABE, 1960 (mt.)

**B693 *H. polita* HABE, 1960-a**

Hiyowa-gai (= Sukeba-gai)

- Type locality: Tomioka, Amakusa island, western Kyūshū.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5.
- Habitat: 20-30 m., fine sand.

□ Genus *Cicatellia* LASERON, 1956-b

Type species: *Cicatellia indenta* LASERON, 1956 (o. d.)

**B694 *C. pelseneeri* (PRASHAD, 1932)**

- Type locality: 'Siboga' sta. 50, 'Bay of Badjo, west coast of Flores' (Indonesia).
- Distribution: Sagami bay (1470-1500 m. OKUTANI, 1966; 1510 m. OKUTANI, 1968); Indonesia.
- Original genus: *Montacuta*.

Subfamily **BORNIOLINAE IREDALE & MCMICHAEL, 1936**

□ Genus *Byssobornia* IREDALE, 1936

Type species: *Bornia filosa* HEDLEY, 1902 (o. d.)

**B695 *B. adamsi* (YOKOYAMA, 1924)**

(= *B. yamakawai* YOKOYAMA *sensu* KURODA *et al.*, 1971 *non* YOKOYAMA, 1922)

Sewake-gai

- Type locality: Awanuma coral bed, Chiba prefecture,

central Honshū (fossil).

- Distribution: Sagami bay and southwards, P6-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea; Taiwan, South China Sea.

- Habitat: 10-50 m., fine sand and mud.

- Original genus: *Galeomma*.

**B696 *B. deshayesiana* (HINDS, 1845 in 1844-45)**

Okino-sewake-gai (= Sewake-hachimitsu-gai)

- Type locality: Philippines.
- Distribution: Okinawa (Hisashi beach, Naha HABE & NAKAMINE, 1985); 'Pacific coast, 0°-26° N.' (KURODA & HABE, 1952-a), East China Sea; Taiwan, Philippines, Indonesia.
- Habitat: intertidal, sandy mud.
- Original genus: *Pythina*.

□ Genus *Borniola* IREDALE, 1924

Type species: *Bornia lepida* HEDLEY, 1906 (o. d.)

**B697 *B. yamakawai* (YOKOYAMA, 1922)**

(= *B. nipponica sensu* KURODA *et al.*, 1971; *Scintilla trigonalis* YOKOYAMA *sensu* KURODA *et al.*, 1971; *Byssobornia striatissima* (SOWERBY) *sensu* HABE, 1964)

Kebori-sewake-gai (= Yamato-koyama-gai)

- Type locality: Shisui, Inba district, Chiba prefecture, central Honshū (fossil).
- Distribution: Sagami bay and southwards, P6-P5, Japan Sea (Wakasa bay, J2-J1), EC5, East China Sea; Taiwan, South China Sea.
- Habitat: 10-50 m., fine sand.
- Original genus: *Montacuta*.

□ Genus *Paraborniola* HABE, 1958-d

Type species: *Paraborniola matsumotoi* HABE, 1958 (mt.)

**B698 *P. matsumotoi* HABE, 1958-d**

Matsumoto-uroko-gai

- Type locality: Ushimado, Okayama prefecture, central Seto inland sea.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5.
- Habitat: intertidal to 20 m., rocks and gravel.

□ Genus *Pseudopythina* FISCHER in MONTEROSATO, 1884

Type species: *Kellia macandrewi* FISCHER, 1867 (mt.; = *Coralliophaga setosa* DUNKER, 1864) (= *Borniosis* HABE, 1959-a)

**B699 *P. tsurumaru* (HABE, 1959-a)**

Tsurumaru-kebori-gai

- Type locality: Ariake inland sea, western Kyūshū.
- Distribution: Mikawa bay (Aichi prefecture) and

southwards, P6-P5, Ōsaka bay, Japan Sea (Noto peninsula (Nanao bay), J3-J1), EC5; Korea, Yellow Sea, Bo-hai, Hong Kong, South China Sea.

- Habitat: 5-50 m., mud & sand.
- Original genus: *Borniopsis*.

**B700 *P. ariakensis* (HABE, 1959-a)**

Ariake-kebori-gai

- Type locality: Ariake inland sea, western Kyūshū.
- Distribution: Japan Sea (Wakasa bay and westwards, J2-J1), western Kyūshū.
- Habitat: 5-20 m., sand and mud.
- Original genus: *Borniopsis*.

**B701 *P. macrophthalmensis* MORTON & SCOTT, 1989**

Osagami-yadori-gai

- Type locality: Hong Kong.
- Distribution: Okinawa prefecture (Iriomote island - Funaura; entrance to Nakama river KOSUGE & ITANI 1994); Hong Kong.
- Habitat: intertidal in mud; commensal with Decapod *Macrophthalmus latreille*.

□ Genus ***Radobornia* DALL, BARTSCH & REHDER, 1938**

Type species: *Radobornia arafia* DALL, BARTSCH & REHDER, 1938 (o. d.)

**B702 *R. bryani* (PILSBRY, 1921-a)**

(= *R. arafia* DALL, BARTSCH & REHDER, 1938; *Nesobornia lactea* KURODA, 1960)

Chichino-shitatarī

- Type locality: Paumalu, Oahu, Hawaii.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, Madagascar, Maldives to Hawaii.
- Habitat: subtidal to 80 m., sand and mud.
- Original genus: *Solecardia*.

□ Genus ***Nesobornia* DALL, BARTSCH & REHDER, 1938**

Type species: *Erycina* (*Poronia*) *ovata* GOULD, 1850 *non* GRAY, 1825 *nec* PHILIPPI, 1836 (o. d.); = *Nesobornia bartschi* CHAVAN in MOORE, 1969)

**B703 *N. bulla* (GOULD, 1861 in 1859-61)**

Migaki-shitatarī (= Maru-tsuyu-gai)

- Type locality: 'Loo Choo' (Okinawa).
- Distribution: Amami islands and southwards, ECP3-ECP2.
- Habitat: 50-100 m., sand and mud.
- Original genus: *Kellia*.

□ Genus ***Lionelita* JOUSSEAUME, 1888**

Type species: *Lionelita lionelita* JOUSSEAUME, 1888 (o. d.); = *Erycina denticulata* DESHAYES, 1856)

**B704 *L. denticulata* (DESHAYES, 1856-c)**

(= *L. lionelita* JOUSSEAUME, 1888)

- Type locality: 'Borneo'.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, ECP4-ECP2, P2; Philippines, South China Sea, Borneo; Red Sea, Indian Ocean.
- Habitat: 25-50 m., sandy mud.
- Original genus: *Erycina*.

□ Genus ***Sagamikellia* KURODA & HABE in KURODA *et al.*, 1971**

Type species: *Sagamikellia gibbosa* KURODA & HABE, 1971 (o. d.)

**B705 *S. gibbosa* KURODA & HABE in KURODA *et al.*, 1971**

Shira-tsuyu-gai

- Type locality: 1.5 km. west of Kamikisho, Sagami bay, central Honshū; 60 m.
- Distribution: recorded only from type locality.

□ Genus ***Thraciokellia* KURODA & HABE in KURODA *et al.*, 1971**

Type species: *Thraciokellia jogashima* KURODA & HABE, 1971 (o. d.)

**B706 *T. jogashima* KURODA & HABE in KURODA *et al.*, 1971**

Suemono-kohaku-gai

- Type locality: 5 km. west of Jōgashima, Sagami bay, central Honshū; 110-150 m.
- Distribution: Japan Sea (Wakasa bay), Sagami bay.
- Habitat: 50-150 m., fine sand.

□ Genus ***Kamekia* KURODA & HABE in KURODA *et al.*, 1971**

Type species: *Kamekia pisiformis* KURODA & HABE, 1971 (o. d.)

**B707 *K. pisiformis* KURODA & HABE in KURODA *et al.*, 1971**

Soba-no-mi-gai

- Type locality: 2 km. west of Kamekisho, Sagami bay, central Honshū; 60-80 m.
- Distribution: Sagami bay to Kii peninsula (KURODA & HABE, 1981).
- Habitat: 60-80 m., fine sand.

Family **LEPTONIDAE GRAY, 1847**

(Refs.: Laseron, 1956-b)

□ Genus ***Platomysia* HABE, 1951-a**

Type species: *Platomysia rugosa* HABE, 1951 (o. d.)

**B708 *P. rugata* HABE, 1951-a**

Okinano-egao

- Type locality: Nanao bay, eastern Noto peninsula, Japan Sea.

- Distribution: Sagami bay and westwards, P6-P5, Ōsaka bay, Seto inland sea, Japan Sea (Noto peninsula, J3-J1), western Kyūshū (Ariake inland sea).
- Habitat: 20-60 m., sandy mud in bays.

Family **MELLITERYCIDAE IREDALE & MCMICHAEL, 1962**

□ Genus *Melliteryx* **IREDALE, 1924**

Type species: *Erycina acupuncta* HEDLEY, 1909 (o. d.)

B708-1 *M. puncticulatus* (**YOKOYAMA, 1924**)

(= *M. puncticulatus flexussa* HABE, 1960)

Hachimitsu-gai (= Hidatori-hachimitsu-gai)

- Type locality: Numa, Tateyama City, Chiba prefecture, central Honshū (fossil).
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5; Korea, Yellow Sea, Bo-hai.
- Habitat: 5-80 m., sandy mud.
- Original genus: *Lepton*.

Family **MONTACUTIDAE CLARK, 1855**

Subfamily **MONTACUTINAE CLARK, 1855**

□ Genus *Montacuta* **TURTON, 1822**

Type species: *Ligula substriata* MONTAGU, 1808 (s. d. HERRMANNSEN, 1846)

B709 *M. echinocardiphila* **HABE, 1964-b**

Okame-bunbuku-yadori-gai

- Type locality: Chijiwa bay (east of Nagasaki City), Nagasaki prefecture, western Kyūshū.
- Distribution: central Seto inland sea (Mukaishima KOMATSU, 1986-a) and westwards, Japan Sea (J1), EC5; Yellow Sea.
- Habitat: 20-60 m., commensal among spines of urchins *Echinocardium cordatum* and *Lovenia elongata*.

B710 *M. divaricata* **GOULD, 1861 in 1859-61**

- Type locality: 'Hakodadi (Hakodate, Hokkaidō), on the spines of a Spatangus'.
- Distribution: Hokkaidō.
- Habitat: commensal with starfish *Schizaster lacunosus*.

□ Genus *Montacutona* **YAMAMOTO & HABE, 1959**

Type species: *Montacutona mutsuwanensis* YAMAMOTO & HABE, 1959 (o. d.)

B711 *M. mutsuwanensis* **YAMAMOTO & HABE, 1959**

(= *Montacuta ceriantha* PONDER, 1971)

Mutsu-wan-maru-yadori-gai

- Type locality: Mutsu bay, off Ushiro-gata and Asamushi (Aomori prefecture, northern Honshū).
- Distribution: Mutsu bay and southwards, P10-P5, EC5; South China Sea, Hong Kong, Australia.
- Habitat: subtidal to 85 m., sandy mud, commensal with Anthozoan *Cerianthus filiformis*.

B712 *M. tanakai* **HABE, 1959-a**

Tanaka-maru-yadori-gai

- Type locality: Ariake inland sea, western Kyūshū.
- Distribution: Kii peninsula (Tanabe bay KURODA & HABE, 1981), Seto inland sea (Bingo-nada off Okayama prefecture), Ariake inland sea.
- Habitat: 10-60 m., sand; host unknown.

B713 *M. olivacea* **HABE, 1959-a**

Murasaki-maru-yadori-gai

- Type locality: Maizuru bay, off Kyōto prefecture, central Japan Sea.
- Distribution: Mie prefecture (Shima peninsula KURODA & HABE, 1981), P6-P5, Japan Sea (Wakasa bay, J2-J1), EC5.
- Habitat: 10-100 m., mud; host unknown.

B714 *M. japonica* (**YOKOYAMA, 1922**)

Maru-yadori-gai (= Yamato-henoji-gai)

- Type locality: Ōtake, Narita City, Chiba prefecture, central Honshū (fossil).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5.
- Habitat: 5-70 m., fine sand and mud; host unknown.
- Original genus: *Montacuta*.

B715 *M. kurilensis* (**SCARLATO & IVANOVA, 1974**)

Chishima-futaba-gai

- Type locality: Kuril islands.
- Distribution: Hokkaidō (off Abashiri), Kuril islands.

□ Genus *Eolepton* **ŌYAMA, 1973**

Type species: *Montacuta? crassa* YOKOYAMA, 1927 (o. d.)

B716 *E. crassa* (**YOKOYAMA, 1927**)

Kodemari-gai (= Atsu-erikkusu-gai)

- Type locality: Takanawa, Minato-ku, Tōkyō City (fossil).
- Distribution: Kii peninsula (Tanabe bay KURODA & HABE, 1981) and southwards, P5, Seto inland sea, Japan Sea (off Niigata prefecture, J3-J1), western Kyūshū.
- Habitat: 5-140 m., sandy mud.
- Original genus: '*Montacuta?*'.

□ Genus *Fronsella* **LASERON, 1956-b**

Type species: *Fronsella adipata* LASERON, 1956 (o. d.)

B717 *F. ohshimai* **HABE, 1958-e**

Hanabira-gai

- Type locality: Tomioka, Amakusa island, western Kyūshū.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, Japan Sea (Oga peninsula, J3-J1), EC5.
- Habitat: intertidal to 20 m., coarse sand and stones;

commensal on *Sipunculus nudus* LINNAEUS.

**B718 *F. fujitaniana* (YOKOYAMA, 1927)**

Fujitani-kohaku-no-tsuyu

- Type locality: Ōji, Kita-ku, Tōkyō City (fossil).
- Distribution: Mutsu bay (Aomori prefecture) and southwards, P10-P5, Seto inland sea (Yanai bay KATŌ & FUKUDA, 1996) Japan Sea (J4-J1), EC5; Yellow Sea, China (Shandong).
- Habitat: 5-140 m., soft mud and fine sandy mud.
- Original genus: *Kellia*.

□ Genus *Tellimya* BROWN, 1827

Type species: *Mya ferruginosa* MONTAGU, 1808 (s. d. GRAY, 1847)

**B719 *T. torishimensis* nomen novum**

(= *T. japonica* OKUTANI, 1962 non A. ADAMS, 1862-b) Niyori-bunbuku-yadori-gai

- Type locality: 'Sōyō-Marū' sta. B5, 26 miles off Torishima, Izu islands: 35° 48.5' N., 140° 38.4' E., 2280 m.
- Distribution: Izu islands.
- Habitat: 2000-2500 m., commensal on *Lovenia*.

**B719-1 *T. japonica* A. ADAMS, 1862-b**

- Type locality: 'Mino-Sima' (Mishima, western Japan Sea), 63 fms.
- Distribution: known only from type locality.

□ Genus *Soyokellia* HABE, 1958-b

Type species: *Soyokellia compressa* HABE, 1958 (mt.)

**B720 *S. compressa* HABE, 1958-b**

Sōyō-hirata-gai

- Type locality: 'Sōyō-Marū' sta. 494, off Shimane prefecture (central Honshū, Japan Sea): 35° 02' N., 132° 05' 30" E., 110m, muddy sand.
- Distribution: recorded only from type locality.

□ Genus *Nipponomysella* YAMAMOTO & HABE, 1959

Type species: *Montacuta oblongata* YOKOYAMA, 1922 (o. d.)

**B721 *N. oblongata* (YOKOYAMA, 1922)**

Maru-henoji-gai

- Type locality: Ōji, Kita-ku, Tōkyō (fossil).
- Distribution: Mutsu bay (Aomori prefecture) and southwards, P10-P5, Seto inland sea, Japan Sea (Sado island, J3-J1), EC5; Yellow Sea, China (Shandong).
- Habitat: subtidal to 140 m., fine sandy mud, commensal on *Ophioplocus japonicus*.
- Original genus: *Montacuta*.

**B722 *N. subtruncata* (YOKOYAMA, 1927)**

Suji-hoshi-mushi-yadori-gai (= Suji-hoshi-mushi-modoki-yadori-gai

- Type locality: Ōji, Kita-ku, Tōkyō City (fossil).

- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, Seto inland sea, Japan Sea (J1), EC5.

• Habitat: intertidal to 10 m., sandy mud, commensal with *Sipunculus nudus* LINNAEUS and *Siphonosoma cumaense*.

• Original genus: *Montacuta*.

**B723 *N. obesa* HABE, 1960-b**

Fukure-maru-henoji-gai

- Type locality: Tanabe bay, Wakayama prefecture (Kii peninsula, central Honshū); sand bottom.
- Distribution: Kii peninsula (KURODA & HABE, 1981).

**B724 *N. tanabensis* HABE, 1960-b**

Tanabe-yadori-gai

- Type locality: Tanabe bay, Wakayama prefecture (Kii peninsula, central Honshū).
- Distribution: Kii peninsula, Japan Sea (Oga peninsula), Seto inland sea.
- Habitat: 10-20 m., sand.

□ Genus *Barrimysia* IREDALE, 1929

Type species: *Rochefortia excellens* HEDLEY, 1912 (o. d.)

**B725 *B. cumingii* (A. ADAMS, 1856-a)**

Akebono-gai

- Type locality: 'Gindulman, Bohol, Philippines; 8 fms., sandy mud' and 'Himmamailan, Negros, Philippines; 3 fms., sandy mud'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, South China Sea.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Pythina*.

□ Genus *Callomysia* HABE, 1951-a

Type species: *Callomysia matsuii* HABE, 1951 (o. d.)

**B726 *C. matsuii* HABE, 1951-a**

Matsui-gai

- Type locality: Ago bay, Mie prefecture, central Honshū.
- Distribution: Shima peninsula (KURODA & HABE, 1981) and westwards, Kii peninsula, western Seto inland sea, western Kyūshū.
- Habitat: 10-50 m., sand.

**B727 *C. sagamiensis* (KURODA & HABE in KURODA et al., 1971)**

Sagami-akebono-gai

- Type locality: 1 km SSW of Jōgashima, Sagami bay, central Honshū; 35 m.
- Distribution: Sagami bay and westwards, western Kyūshū, East China Sea.
- Habitat: intertidal to 35 m., sand.

□ Genus *Nipponomontacuta* YAMAMOTO & HABE, 1961

Type species: *Nipponomontacuta actinariophila*

YAMAMOTO & HABE, 1961 (mt.)

**B728 *N. actinariophila* YAMAMOTO & HABE, 1961**

Iso-ginchaku-yadori-gai

- Type locality: Shiso-jima, Shirahama, Kii peninsula (Wakayama prefecture, central Honshū).
- Distribution: Sagami bay (KURODA & HABE, 1981) and westwards, Kii peninsula, western Kyūshū.
- Habitat: 10-20 m., parasitic on sea anemone *Halcampella maxima* HERTWIG.

Subfamily **MYSELLINAE IREDALE & MCMICHAEL, 1962**

□ Genus *Mysella* ANGAS, 1877

Type species: *Mysella anomala* ANGAS, 1877 (o. d.)

**B729 *M. tanabensis* HABE, 1960-b**

Tanabe-gai

- Type locality: Tanabe bay, Kii peninsula (Wakayama prefecture, central Honshū).
- Distribution: Kii peninsula and westwards, P5, western Kyūshū (Tomiooka, Amakusa KURODA & HABE, 1981).
- Habitat: intertidal to 50 m., sand.

**B730 *M. nipponica* HABE in KURODA & HABE, 1981**

Nihon-tanabe-gai

- Type locality: (off) Sakai port, Minabe, Kii peninsula (Wakayama prefecture, central Honshū); among spines of *Spondylus barbatus* REEVE.
- Distribution: recorded only from type locality.

□ Genus *Curvemysella* HABE, 1959-a

Type species: *Pythina paula* A. ADAMS, 1856-a (o. d.)

**B731 *C. paula* (A. ADAMS, 1856-a)**

(= *Pythina peculiaris* A. ADAMS, 1856-a)

Henoji-gai

- Type locality: Raines island, Torres strait, northern Australia.
- Distribution: Mutsu bay (Aomori prefecture) and southwards, P10-P5, Seto inland sea, Japan Sea (Wakasa bay, J2-J1), EC5, East China Sea; Hong Kong, South China Sea, Red Sea, Indo-Pacific, Australia.
- Habitat: 10-50 m., commensal on crabs and gastropods.

Subfamily **THECODONTINAE BERNARD, 1983**

□ Genus *Thecodonta* A. ADAMS, 1864-d

Type species: *Thecodonta sieboldii* A. ADAMS, 1864-d (mt.)

(= *Kona* DALL, BARTSCH & REHDER, 1938)

**B732 *T. sieboldii* A. ADAMS, 1864-d**

(= *Kona oryzaeformis* KURODA & HABE in KURODA *et al.*, 1971)

Kome-gai

- Type locality: 'Gotto Islands' (Gotō islands, western Kyūshū); 71 fms.

- Distribution: Kashima-nada (KURODA & HABE, 1981) and southwards, P8-P5, EC5, East China Sea.
- Habitat: 50-100 m., sand and mud.

Subfamily **OROBITELLINAE BERNARD, 1983**

□ Genus *Pergrinamor* SHŌJI, 1938

Type species: *Peregrinamor ohshimai* SHŌJI, 1938 (mt.) (Refs.: Habe, 1952-d; Katō & Itani, 1995)

**B733 *P. ohshimai* SHŌJI, 1938**

Magokoro-gai

- Type locality: Hakata bay, northern Kyūshū.
- Distribution: Mie prefecture (Ise bay KIMURA & YAMAMOTO, 1990), Kii peninsula (KURODA & HABE, 1981) and southwards, Ōsaka bay, Seto inland sea (Suō-nada), northern and western Kyūshū (Hakata bay; Tomioka bay, Amakusa; Ariake inland sea); Yellow Sea, China (Shandong).
- Habitat: intertidal in mud, commensal with *Urogebia major* (DE HAAN) and *U. issaeffi* BALOS.

Superfamily **CYAMIOIDEA PHILIPPI, 1845**

Family **SPORTELLIDAE DALL, 1899**

□ Genus *Basterotia* MAYER in HÖRNES, 1859 in 1851-70

Type species: *Basterotia corbuloides* HÖRNES, 1859 (mt.) (= *Eucharis* RÉCLUZ, 1850 non LATREILLE, 1804)

**B734 *B. gouldi* (A. ADAMS, 1864-d)**

(= *Anisodonta (Fulcrella) gouldii sensu* HABE, 1961)

Iso-kaze-gai

- Type locality: 'Mososeki' (Moji, western Seto inland sea).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), Seto inland sea, East China Sea.
- Habitat: intertidal to 50 m., sandy mud.
- Original genus: *Eucharis*.

**B735 *B. stimpsoni* (A. ADAMS, 1864-d)**

Soyo-kaze-gai

- Type locality: 'Akasi' (Akashi, Hyōgo prefecture, Seto inland sea).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), Seto inland sea, EC5.
- Habitat: intertidal to 50 m., sandy mud.
- Original genus: *Eucharis*.

□ Genus *Anisodonta* DESHAYES, 1858 in 1856-65

Type species: *Anisodonta complanatum* DESHAYES, 1858 (mt.)

**B736 *A. angulata* (H. ADAMS, 1871-a)**

(= *A. angulata* DALL, BARTSCH & REHDER, 1938 *sensu* KAY, 1979)

Kezume-gai

- Type locality: Red Sea.



- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, EC5, ECP4-ECP2; Yellow Sea, Red Sea, western Pacific, Hawaii.
- Habitat: intertidal in tide pools; in burrows of polychaete worms.
- Original genus: *Eucharis*.

Superfamily **CARDITOIDEA FLEMING, 1828**

Family **CARDITIDAE FLEMING, 1828**

Subfamily **CARDITINAE FLEMING, 1828**

□ Genus *Cardita* **BRUGUIÈRE, 1792 in 1789-1816**

Type species: *Chama calyculata* LINNAEUS, 1758 (s. d. GRAY, 1847)

**B737 *C. variegata* BRUGUIÈRE, 1792 in 1789-1816**

(= *C. calyculata* HUDDERSFORD, 1770 *non* LINNAEUS, 1758; *C. subaspera* LAMARCK, 1819; *C. subasper* DUBOIS, 1824 *sensu* LAMPRELL & WHITEHEAD, 1992)

Kurofu-tomaya-gai

- Type locality: 'des Grandes-Indes' (East Indies).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Red Sea, Indonesia, Moluccas, South Africa, Mauritius, Hong Kong, Indo-Pacific.
- Habitat: intertidal to 100 m., attached by byssus to rocks and stones.

**B738 *C. leana* DUNKER, 1860**

(= *C. cumingiana* DUNKER, 1860)

Tomaya-gai

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).
- Distribution: Mutsu bay (Aomori prefecture) and southwards, Tsugaru peninsula, P10-P5, Japan Sea (J4-J1), East China Sea; Korea, Taiwan, South China Sea.
- Habitat: intertidal to 20m, attached by byssus to stones in gravel.

**B739 *C. nodulosa* LAMARCK, 1819 in 1815-22**

(= *C. rufescens* REEVE, 1843; *C. variegata* YOKOYAMA, 1920 *non* BRUGUIÈRE, 1792 in 1789-1816)

Momo-iro-tomaya (= Hana-tomaya; Nishiki-tomaya)

- Type locality: 'les mers de la Nouvelle Hollande, a la baie des Chiens-Marins' (Shark Bay, western Australia).
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5, Seto inland sea, East China Sea; tropical Pacific.
- Habitat: 5-450 m., attached to stones and shells.

**B740 *C. crassicosta* LAMARCK, 1819 in 1815-22**

(= *C. squamifera* SOWERBY, 1825; *C. cardioides* REEVE, 1843)

Futo-une-tomaya

- Type locality: none designated; 'Du voyage de Peron' in text, so probably based on material from Australia.
- Distribution: Okinawa, P2, East China Sea; Taiwan and southwards, South China Sea, northwestern Australia.
- Habitat: subtidal to 30 m., attached to rocks and stones.

**B741 *C. kyushuensis* (OKUTANI, 1963-a)**

Niku-iro-tomaya (= Toge-naga-fumi-gai)

- Type locality: off Izu islands: 35° 50' N., 130° 28.5' E., 210 m.
- Distribution: Izu islands and southwards, P6-P5, EC5, ECP4, P2, East China Sea; Philippines, South China Sea.
- Habitat: 20-300 m., attached to stones and shells.
- Original genus: *Glans*.

**B742 *C. uruma* HAYAMI & KASE, 1993**

Iga-tomaya-gai

- Type locality: sediments in 'Cross hole' cave, Irabu island, Okinawa prefecture.
- Distribution: Ryūkyū islands (Ie; Shimoji; Irabu).
- Habitat: subtidal in caves.

Subfamily **VENERICARDIINAE CHAVAN, 1969**

□ Genus *Megacardita* **SACCO, 1899**

Type species: *Venericardia jouanneti* BASTEROT, 1825 (o. d.)

**B743 *M. ferruginosa* (ADAMS & REEVE, 1850 in 1848-50)**

(= *Cardita kiiensis* SOWERBY, 1913; *Venericardia cipangoana* YOKOYAMA, 1920)

Fumi-gai (= Kii-fumi-gai)

- Type locality: 'Philippine Archipelago'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (Noto peninsula, J2-J1), EC5, East China Sea; southern Korea, South China Sea, Philippines, Indonesia, southeast Asia.
- Habitat: 10-120 m., coarse sand and stones.
- Original genus: *Cardita*.

**B744 *M. koreana* HABE & ITŌ, 1965-a**

Chōsen-fumi-gai

- Type locality: Japan Sea off Korea.
- Distribution: Japan Sea (Noto peninsula and westwards, J2-J1), western Kyūshū; southeastern Korea.
- Habitat: 10-100 m., coarse sand and stones.

**B745 *M. coreensis* (DESHAYES, 1854-a)**

Hata-une-fumi-gai (= Kōrai-mame-fumi-gai)

- Type locality: Korea.
- Distribution: northern Kyūshū and westwards, Tsushima strait, East China Sea; southern Korea, Yellow Sea.
- Habitat: 20-50 m.
- Original genus: *Cardita*.

□ Genus *Cyclocardia* **CONRAD, 1867-b**

Type species: *Cardita borealis* CONRAD, 1831 (s. d. STOLICZKA, 1871)

**B746 *C. paucicostata* (KRAUSE, 1885)**

Arasuji-maru-fumi-gai

- Type locality: 'Emmahafen, 15 fms.' (Plover bay, Bering strait, Chukchi (Chukotsk) peninsula, eastern Siberia).
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, P9-P10, Hokkaidō, Kuril islands, OP, Okhotsk Sea; Bering Sea.
- Habitat: 10-50 m., sandy mud.
- Original genus: *Cardita* (as var. of *C. borealis*).

**B747 *C. crebricostata* (KRAUSE, 1885)**

Ō-maru-fumi-gai

- Type locality: 'Saint Paul' (Pribilof islands, Alaska), 24 fms.
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, P9-P10, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J4), Okhotsk Sea, OP, Kuril islands, Okhotsk Sea; Bering Sea, Alaska, northwestern USA.
- Habitat: 10-200 m., coarse sand and stones; sandy mud.
- Original genus: *Venericardia*.

**B748 *C. ferruginea* (CLESSIN, 1888 in 1887-88)**

Kuro-maru-fumi-gai

- Type locality: 'Japan'.
- Distribution: southern Kuril islands and southwards, OP, P10-P5 (Ōtsuchi bay TSUCHIDA & KUROZUMI, 1995-a), Japan Sea (Oga peninsula, J4-J1), EC5.
- Habitat: 35-400 m., sand.
- Original genus: *Venericardia*.

**B749 *C. erimoensis* (CHIBA, 1972-a)**

Kuma-asari (= Erimo-maru-fumi-gai)

- Type locality: off Cape Erimo, southeastern Hokkaidō.
- Distribution: southern Hokkaidō and southwards, P10-P9, off Iwate prefecture.
- Habitat: 100-250 m., sandy mud.
- Original genus: *Venericardia*.

**B750 *C. isaotakii* (CHIBA, 1972-a)**

Isao-maru-fumi-gai

- Type locality: off Nemuro, Hokkaidō; ± 100 m.
- Distribution: southern Hokkaidō and northwards, P10, OP, Kuril islands, Okhotsk Sea; Bering Sea.
- Habitat: 10-100 m., sandy mud.
- Original genus: *Venericardia*.

**B751 *C. ventricosa* (GOULD, 1850 in 1846-50)**

Birōdo-maru-fumi-gai

- Type locality: Puget sound, Washington, USA.
- Distribution: Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967); northwestern USA.
- Habitat: 100 m.

- Original genus: *Cardita*.

**B752 *C. incissa* (DALL, 1903-a)**

- Type locality: Unalaska, Alaska.

• Distribution: Japan Sea coast, 41°-55° N' (KURODA & HABE, 1952-a); northwestern USA.

- Original genus: *Venericardia* (*Cyclocardia*).

**B753 *C. crassidens* (BRODERIP & SOWERBY, 1829)**

(= *Venericardia morsei* DALL, 1918)

Kagami-maru-fumi-gai

- Type locality: 'in Oceano Arctico...off Icy Cape' (near Wainwright, northwestern Alaska).

• Distribution: Hokkaidō (Cape Sōya; Kushiro; Hana-saki; Abashiri; Cape Erimo, 100-150 m. S. HABU, pers. comm.), Kuril islands, Okhotsk Sea; Bering Sea to Alaska.

- Habitat: 35-360 m., sandy mud.
- Original genus: *Astarte*.

□ Genus *Glans* MÜHLFELD, 1811

Type species: *Chama trapezia* LINNAEUS, 1767 (s. d. HERRMANNSEN, 1846)

**B754 *G. hirasei* (DALL, 1918-a)**

(= *Cardita pelseneeri* PRASHAD, 1932; *G. pseudocardita* POUTIERS, 1981)

Hirase-fumi-gai (= Zaru-fumi-gai)

- Type locality: 'Kii' (Kii peninsula, central Honshū).
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, P2; Philippines, South China Sea, Indonesia, southeast Asia.
- Habitat: 100-200 m., coarse sand and stones.
- Original genus: *Venericardia*.

**B755 *G. sagamiensis* KURODA & HABE in HABE, 1961-a**

Sagami-fumi-gai

- Type locality: Sagami bay, central Honshū.
- Distribution: west off Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986), off Izu islands, Sagami bay.
- Habitat: 30-200 m., coarse sand and stones.

□ Genus *Miodontiscus* DALL, 1903-c

Type species: *Miodon prolongatus* CARPENTER, 1863 (o. d.)

(= *Miodon* CARPENTER, 1863 non DUMÉRIL, 1859 nec SANDBERGER, 1870)

**B756 *M. prolongatus nakamurai* (YOKOYAMA, 1923-a)**

Mame-fumi-gai

- Type locality: southern Cheju island, southwestern Korea (fossil).
- Distribution: Hokkaidō (Nemuro), Japan Sea (off Togi, Noto peninsula); Cheju island (Korea).
- Habitat: 100-115 m., sandy mud.
- Original genus: *Venericardia*.

□ Genus *Pleuromeris* CONRAD, 1867-a

Type species: *Pleuromeris decemcostata* CONRAD, 1867 (o. d.; = *Venericardia tridentata* SAY, 1826) (= *Cylcloglans* GORODISKI & FRENEIX, 1959)

B757 *P. pygmaea* KURODA & HABE, 1951-a

(= *Cardita abbreviata* SOWERBY, 1903 non CONRAD, 1841)

- Type locality: Hirado island, Nagasaki prefecture, western Kyūshū.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Sado island, J3-J1), Seto inland sea, EC5.
- Habitat: intertidal to 100 m., rubble.
- Original genus: *Venericardia* (*Pleuromeris*).

B758 *P. soyoae* (HABE, 1958-b)

Sōyō-fumi-gai

- Type locality: 'Sōyō-Maru' sta. 494, off Shimane prefecture (central Honshū, Japan Sea): 35° 02' 00" N., 132° 05' 30" E., 110 m., muddy sand.
- Distribution: Japan Sea (central Niigata prefecture and westwards; Wakasa bay; off Shimane prefecture), western Kyūshū.
- Habitat: 50-300 m., coarse sand and stones.
- Original genus: *Venericardita* (*sic*) (*Megacardita*).

Subfamily CARDITELLINAE IREDALE & MCMICHAEL, 1962

(Refs.: Hayami & Kase, 1993)

□ Genus *Carditella* E. A. SMITH, 1881-b

Type species: *Carditella pallida* E. A. SMITH, 1881 (s. d. DALL, 1903)

Subgenus *Carditella s. str.*

B759 *C. (C.) iejimensis* HAYAMI & KASE, 1993

Iejima-keshi-zaru-gai

- Type locality: sediments in 'Shō-dōkutsu' cave, Ie island, Okinawa prefecture.
- Distribution: recorded only from type locality.

B760 *C. (C.) shimojiensis* HAYAMI & KASE, 1993

Shimoji-keshi-zaru-gai

- Type locality: sediments in 'Fool's Palace' cave, Shimoji island, Miyako group, Okinawa prefecture.
- Distribution: recorded only from type locality.

Subgenus *Carditellona* IREDALE, 1936

Type species: *Carditella angasi* E. A. SMITH, 1885 (o. d.) (Refs.: Habe, 1952-e)

B761 *C. (Carditellona) hanzawai* (NOMURA, 1933-a)

Keshi-zaru-gai

- Type locality: Hakushaton, Shinchiku district, Taiwan (fossil).
- Distribution: northeastern Honshū (Iwate prefecture) and

southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea; Taiwan, South China Sea.

- Habitat: 10-150 m., sand.
- Original genus: *Cardium*.

□ Genus *Carditellopsis* IREDALE, 1936

Type species: *Carditella elegantula* TATE & MAY, 1901 (o. d.)

B762 *Carditellopsis toneana* (YOKOYAMA, 1922)

Keshi-fumi-gai

- Type locality: Shitō, Ichihara City, Chiba prefecture, central Honshū (fossil).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (Sado island, J3-J1), EC5.
- Habitat: 20-150 m., fine sand.
- Original genus: *Venericardia*.

Family CONDYLOCARDIIDAE BERNARD, 1897

Subfamily CUNINAE CHAVAN, 1969

□ Genus *Cuna* HEDLEY, 1902

Type species: *Cuna concentrica* HEDLEY, 1902 (o. d.)

B763 *C. iriomotensis* HABE, 1992-d

Mijin-moshio-gai

- Type locality: Amitori bay, Iriomote island (Okinawa prefecture); ± 10 m., sandy mud.
- Distribution: recorded only from type locality.

Superfamily CRASSATELLOIDEA FÉRUSSAC, 1822

Family CRASSATELLIDAE FÉRUSSAC, 1822

(Refs.: Habe, 1952-g)

□ Genus *Eucrassatella* IREDALE, 1924

Type species: *Crassatella kingicola* LAMARCK, 1805 (o. d.)

Subgenus *Nipponocrassatella* KURODA & HABE in KURODA *et al.*, 1971

Type species: *Crassatella nana* ADAMS & REEVE, 1850 (o. d.)

B764 *E. (N.) nana* (ADAMS & REEVE, 1850 in 1848-50)

(= *Crassatella loebbeckei* KOBELT, 1866; *Crassatellites nanus sensu* KIRA, 1959)

Sudare-moshio-gai

- Type locality: 'Eastern Seas'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea, P2; South China Sea.
- Habitat: intertidal to 100 m., sand.
- Original genus: *Crassatella*.

B765 *E. (N.) japonica* (DUNKER, 1882)

(= *Crassatella donacia* LAMARCK *sensu* REEVE, 1843 non LAMARCK, 1805; *C. borneensis* MARTIN, 1889; *Crassatella japonica* SOWERBY, 1889 non DUNKER,

1882; *Crassatellites heteroglyptus* PILSBRY, 1895)

Moshio-gai

- Type locality: 'Japan'; restricted to 'Sagami bay' (KURODA *et al.*, 1971)
- Distribution: Sagami bay and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea, P2; Philippines.
- Habitat: intertidal to 200 m., sand.
- Original genus: *Crassatella*.

B766 *E. (N.) adamsi* (KOBELT, 1886)

(= *Crassatella compressa* ADAMS & REEVE, 1850 in 1848-50 *non* LAMARCK, 1808)

Usu-moshio-gai

- Type locality: 'Corean Archipelago' (Korea).
- Distribution: Japan Sea (central Niigata prefecture and southwards, J3-J1), EC5; southern Korea.
- Habitat: 50-150 m., sand and sandy mud.
- Original genus: *Crassatella*.

B767 *E. (N.) sagamiensis* KURODA & HABE in KURODA *et al.*, 1971

Sagami-moshio-gai

- Type locality: Sagami bay, central Honshū.
- Distribution: off Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986), Sagami bay and westwards, P6-P5, Kii peninsula (off Kushimoto KURODA & HABE, 1981), East China Sea.
- Habitat: 50-120 m., fine sand and mud.

□ Genus *Talabrica* IREDALE, 1924-b

Type species: *Crassatella aurora* ADAMS & ANGAS, 1863 (o. d.)

B768 *T. picta* (ADAMS & REEVE, 1850 in 1848-50)

Hanayaka-moshio-gai

- Type locality: 'Philippine Archipelago'.
- Distribution: Okinawa (off Onna point, 50 m. NAKAMINE & HABE, 1989); Philippines, Indonesia, Persian Gulf.
- Habitat: 10-50 m., sand.
- Original genus: *Crassatella*.

□ Genus *Bathytormus* STEWART, 1930

Type species: *Crassatella protexta* CONRAD, 1832 (o. d.) (= *Crenocrassatella* HABE, 1951-a)

B769 *B. foveolatus* (SOWERBY II, 1870)

(= *Crassatella sulcata* REEVE, 1842 *non* LAMARCK, 1801; *Crassatellites yagurai* MAKIYAMA, 1927; *Crassatellites oinouyei* YOKOYAMA, 1928; *Crassatellites kaneharai* YOKOYAMA, 1928)

Yagura-moshio

- Type locality: China.
- Distribution: East China Sea; Taiwan and southwards, China, southwestern Pacific.

- Habitat: intertidal to 25 m., mud and sand.

- Original genus: *Crassatella*.

□ Genus *Indocrassatella* CHAVAN, 1952

Type species: *Crassatella indica* E. A. SMITH, 1895 (o. d.)

B770 *I. oblongata* (YOKOYAMA, 1920)

Watazoko-moshio

- Type locality: Koshiba, Kanazawa-Ku, Yokohama City (fossil).
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5; Yellow Sea.
- Habitat: 50-300 m., sand and mud.
- Original genus: *Crassatella*.

□ Genus *Salaputium* IREDALE, 1924-b

Type species: *Crassatella fulvida* ANGAS, 1871 (o. d.)

B771 *S. unicum* HAYAMI & KASE, 1993

Chibi-moshio-gai

- Type locality: sediments in 'Fool's Palace' cave, Shimoji island, Miyako group, Okinawa prefecture.
- Distribution: Ryūkyū islands (Ie; Shimoji; Irabu).
- Habitat: subtidal in caves.

Family **ASTARTIDAE D'ORBIGNY, 1844**

□ Genus *Astarte* J. SOWERBY, 1816

Type species: *Venus scotica* MATON & RACKETT, 1807 (o. d.; = *Pectunculus sulcatus* DACOSTA, 1778)

B772 *A. hakodatensis* YOKOYAMA, 1920

Hakodate-shirao-gai

- Type locality: Hakodate, Hokkaidō (fossil).
- Distribution: off Gotō islands (western Kyūshū) and northwards, Sagami bay and northwards, P8-P10, Japan Sea (Sado island, J3-J5).
- Habitat: 50-150 m., sandy mud.

□ Genus *Tridonta* SCHUMACHER, 1817

Type species: *Tridonta borealis* SCHUMACHER, 1817 (mt.)

Subgenus *Tridonta s. str.*

B773 *T. (T.) borealis* SCHUMACHER, 1817

(= *Venus borealis* CHEMNITZ, 1784 *non*-binominal) Ezo-shirao-gai

- Type locality: none designated.
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, P9-P10, Japan Sea (Tsushima, J1-J5), Hokkaidō, OP, Kuril islands, Okhotsk Sea; Sakhalin, Bering Sea, Alaska.
- Habitat: 10-230 m., fine sandy mud.

B774 *T. (T.) bennetti* (DALL, 1903-b)

(= *Astarte aomoriensis* NOMURA & HATAI, 1935)

Ko-ezo-shirao-gai

- Type locality: Bennett island, Bering Sea.

- Distribution: off Gotō islands (Kyūshū) and northwards, (?Kii peninsula KURODA & HABE, 1981), P6-P10, Japan Sea (J1-J5), Hokkaidō, OP, Kuril islands, Okhotsk Sea; Bering Sea, Alaska.

- Habitat: 100-250 m., fine sand.

- Original genus: *Astarte*.

**B775 *T. (T.) alaskensis* (DALL, 1903-b)**

Arasuka-shirao-gai

- Type locality: northwest of Unimak island, Bering Sea.

- Distribution: off Iwate prefecture and northwards, P9-P10, Japan Sea (Oki islands, J2-J5), Hokkaidō, OP (100-500 m., fine sand); Kuril islands, Okhotsk Sea, Bering Sea (7-150 m.)

- Original genus: *Astarte*.

**B776 *T. (T.) filatovae* (HABE, 1964-c)**

(= *Astarte multicostata* FILATOVA, 1957 non SMITH & BROWN, 1838)

Sudare-shirao-gai

- Type locality: Kuril islands.

- Distribution: Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967), OP, Kuril islands; northern Okhotsk Sea, Bering Sea, Arctic.

- Habitat: 50-200 m., fine sandy mud.

- Original genus: *Astarte* (*Tridonta*).

**B777 *T. (T.) derjugini* (FILATOVA, 1957)**

- Type locality: Iturup, southern Kuril islands.

- Distribution: recorded only from type locality.

- Original genus: *Astarte*.

Superfamily **CARDIOIDEA LAMARCK, 1809**

Family **CARDIIDAE LAMARCK, 1809**

Subfamily **CARDIINAE LAMARCK, 1809**

□ Genus ***Maoricardium* MARWICK, 1944**

Type species: *Cardium spatiosum* HUTTON, 1873 (o. d.)

**B778 *M. setosum* (REDFIELD, 1846)**

(= *Cardium latum auct. non* BORN, 1778)

Tsugi-no-onaga-tori-gai

- Type locality: 'Seas of China'.

- Distribution: P2; Taiwan and southwards, Philippines, South China Sea, Hong Kong, northwestern Australia.

- Habitat: 10-50 m., sand and mud.

- Original genus: *Cardium*.

**Notes:** Onaga-tori-gai *M. pseudolatum* VOSKUIL & ONVERWAGT, 1991 (= *M. setosum* REDFIELD *sensu* HABE & KOSUGE, 1966; *Cardium latum* BORN *sensu* KIRSTINGHE, 1978; type locality: Padang, western Sumatra, Indonesia) is apparently not distributed in Japan.

□ Genus ***Vepricardium* IREDALE, 1929-c**

Type species: *Vepricardium pulchricostatum* IREDALE, 1929 (o. d.); = *Cardium multispinosum* SOWERBY II,

1841)

**B779 *V. multispinosum* (SOWERBY II, 1841-a)**

(= *V. pulchricostatum* IREDALE, 1929-c)

Ichigo-zaru-gai (= Ko-ichigo-zaru; Hime-ichigo-zaru)

- Type locality: 'ad insulam Mindanao, Philippinarum' (Mindanao, Philippines); 'Found in sandy mud, at 25 fathoms'.

- Distribution: P2, East China Sea; Taiwan and southwards, South China Sea, Hong Kong, Hainan, Thailand, Australia.

- Habitat: 10-100 m., sand and mud.

- Original genus: *Cardium*.

**B780 *V. asiaticum* (BRUGUIÈRE, 1789 in 1789-1816)**

(= *Cardium debile* DESHAYES, 1854)

Ajia-zaru-gai

- Type locality: 'dans l'Océan Asiatique, principalement sur les rivages des îles de Tranquebar' ('the Asian Ocean, principally on the reefs of the islands of Tranquebar', southern India)..

- Distribution: P2; Taiwan and southwards, Hainan, Philippines, Hong Kong, Beibu gulf, South China Sea, Thailand, Nicobar islands, Indo-Pacific.

- Habitat: 5-100 m., sand.

- Original genus: *Cardium*.

**B781 *V. coronatum* (SPENGLER, 1799)**

Hanawa-zaru-gai

- Type locality: none designated.

- Distribution: East China Sea; South China Sea, Hong Kong, Guangdong (BERNARD *et al.*, 1993).

- Habitat: intertidal, sand.

- Original genus: *Cardium*.

Subfamily **TRACHYCARDIINAE STEWART, 1930**

□ Genus ***Acrosterigma* DALL, 1900-d**

Type species: *Cardium dalli* HEILPRIN, 1887 (o. d.)

Subgenus ***Vasticardium* IREDALE, 1927**

Type species: *Vasticardium nebulosum* IREDALE, 1927 (o. d.)

**B782 *A. (V.) burchardi* (DUNKER, 1877)**

Zaru-gai

- Type locality: 'Japan' (from article title); given as 'Sagami Bay' in Kuroda, Habe & Ōyam, (1971), but without any note of designation.

- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5; South China Sea.

- Habitat: intertidal to 20 m., sand.

- Original genus: *Cardium*.

**B783 *A. (V.) enode* (SOWERBY II, 1841-a)**

(= *Cardium tumidum* DESHAYES, 1854; *C. gratiosum* DESHAYES, 1854)

Minami-naga-zaru

- Type locality: 'ad insulam Ceylon' (Sri Lanka).

- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, South China Sea, Indonesia, northern Australia.

- Habitat: intertidal to 50 m., sand.

- Original genus: *Cardium*.

**B784 A. (V.) *elongata cipangense* VIDAL, 1993**

Naga-zaru-gai

- Type locality: Japan.

- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4-ECP2, East China Sea.

- Habitat: intertidal to 50 m., sand.

**B785 A. (V.) *elongata okinawaense* (KURODA, 1960)**

Ko-naga-zaru-gai

- Type locality: Yaeyama islands, Okinawa prefecture.

- Distribution: Okinawa islands and southwards, ECP2-P2.

- Habitat: intertidal to 20 m., sand.

- Original genus: *Trachycardium*.

**B786 A. (V.) *elongata fidele* VIDAL, 1992**

- Type locality: Okinawa.

- Distribution: Okinawa; India, Malaysia, Burma, Kenya, Madagascar, Philippines.

**B787 A. (V.) *angulata* (LAMARCK, 1819 in 1815-22)**

(= *Cardium alternatum* SOWERBY II, 1841-a)

Asa-zaru-gai

- Type locality: 'les mers d'Amérique?' (American seas?).

- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, South China Sea, Indonesia, Australia.

- Habitat: intertidal to 50 m., sand and mud.

- Original genus: *Cardium*.

**B788 A. (V.) *arenicola* (REEVE, 1845 in 1843-65)**

- Type locality: 'Island of Ticao, Philippines (found among coral sand at the depth of about six fathoms)'.

- Distribution: Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986) and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Thailand, Red Sea, southeast Asia, tropical Pacific.

- Habitat: intertidal to 100 m., sand.

**B789 A. (V.) *foveolata* (SOWERBY II, 1841-a)**

Shibuki-zaru

- Type locality: '*ad oras Australiae* (Swan River)' (coast of Australia).

- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, South China Sea, Australia.

- Habitat: intertidal to 20 m., sand.

- Original genus: *Cardium*.

**B790 A. (V.) *pseudoangulata* (BÜLOW, 1905)**

Fuji-iro-zaru

- Type locality: none designated.

- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, South China Sea, China, Indonesia, Indo-Pacific.

- Habitat: subtidal to 20 m., sand.

**B791 A. (V.) *compuncta* (KIRA, 1959)**

Irezumi-zaru

- Type locality: Okinawa.

- Distribution: Amami islands and southwards, ECP3-ECP2, P2, East China Sea; Philippines, China (Fujian), tropical western Pacific.

- Habitat: subtidal to 20 m., sand.

- Original genus: *Vasticardium*.

**B792 A. (V.) *beauforti* (PRASHAD, 1932)**

Sobakasu-zaru

- Type locality: 'Siboga' sta. 133, 'at the Anchorage off Lirung, Salibabu Island' (Taland island group, eastern Celebes Sea, Indonesia).

- Distribution: Izu peninsula (KURODA & HABE, 1981) and southwards, P6-P5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Indonesia.

- Habitat: 20-150 m., sand and mud.

- Original genus: *Cardium* (*Trachycardium*).

**B793 A. (V.) *unicolor* (SOWERBY II, 1841-a)**

(= *Cardium nebulosum* REEVE, 1845)

- Type locality: '*ad ins. Ticao*' (Ticao island, Philippines); 'Found in sandy mud at five fathoms'.

- Distribution: Tosa bay (southern Shikoku) and southwards, P5, ECP4-ECP2, P2; Philippines, South China Sea, Micronesia, Indo-Pacific.

- Habitat: subtidal to 30 m., sand and mud.

- Original genus: *Cardium*.

**B794 A. (V.) *variegata* (SOWERBY II, 1841-a)**

Madara-zaru

- Type locality: '*ad insulam Leyte, Philippinarum*' (Leyte, Philippines).

- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, South China Sea, southeast Asia.

- Habitat: intertidal to 20 m., sand.

- Original genus: *Cardium*.

**B795 A. (V.) *transcendens* (MELVILL & STANDEN, 1899)**

(= *Cardium perstriatum* KURODA, 1928; *Laevicardium pulcherrimum* SAKURAI & HABE, 1966)

Higa-no-ko-zaru (= Tsuzure-zaru)

- Type locality: Torres strait, Australia.

- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, tropical Indo-Pacific, Australia.

- Habitat: intertidal to 50 m., sand and mud.
- Original genus: *Cardium*.

Subgenus **Regozara IREDALE, 1936-b**

Type species: *Regozara olivifer* IREDALE, 1936 (o. d.)

B796 **A. (R.) flava (LINNAEUS, 1758)**

(= *Cardium magnum* LINNAEUS, 1758; *C. pectiniforme* BORN, 1780; *C. regulare* BRUGUIÈRE, 1789 in 1789-1816; *C. angulatum* LAMARCK, 1819 non MÜNSTER in GOLDFUSS, 1837; *C. rugosum* LAMARCK, 1819 non MÜNSTER, 1835; *C. dupuchense* REEVE, 1845; *C. subalternatum* JENKINS, 1864; *Trachycardium peregrinum* JOUSSEAUME, 1888)

Ryūkyū-zaru-gai

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2, East China Sea; Philippines, South China Sea, China, Indonesia, Red Sea, southeast Asia, northern Australia, Indo-Pacific.
- Habitat: subtidal to 20 m., sand.
- Original genus: *Cardium*.

B797 **A. (R.) nigropunctatum (HABE & KOSUGE, 1966-b)**

Gomafu-zaru

- Type locality: Amami Ōshima.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2, East China Sea; Philippines, northern Australia.
- Habitat: subtidal to 20 m., sand.
- Original genus: *Vasticardium*.

B798 **A. (R.) subrugosum (SOWERBY II, 1841-a)**

(= *Cardium subfragum* SOWERBY II, 1841)

Nan'yō-zaru-gai

- Type locality: '*ad insulam Ceylon*' (Sri Lanka).
- Distribution: P2; Taiwan and southwards, Philippines, Indo-Pacific.
- Habitat: subtidal to 20 m., sand.
- Original genus: *Cardium*.

Subfamily **FRAGINAE STEWART, 1930**

□ Genus **Fragum RÖDING, 1798**

Type species: *Cardium fragum* LINNAEUS, 1758 (by tautonymy)

B799 **F. fragum (LINNAEUS, 1758)**

(= *Cardium imbricatum* BORN, 1778; *C. nexum* HUMPHREY, 1797; *Fragum fravum* RÖDING, 1798)

Ō-hishi-gai

- Type locality: '*in O. Asiatico, Americano*' (Asian and American seas).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, South China Sea, Red Sea.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Cardium*.

B800 **F. unedo (LINNAEUS, 1758)**

(= *Cardium cruentum* PERRY, 1811)

Kawara-gai (= Iraka-gai; Kikawara-gai)

- Type locality: none designated.
- Distribution: Tosa bay (southern Shikoku) and southwards, P5, ECP4-ECP2, P2; Philippines, South China Sea, Beibu gulf, Indonesia, Indo-Pacific.
- Habitat: intertidal to 60 m., sand and mud.
- Original genus: *Cardium*.

B801 **F. lochooanum KIRA, 1959**

Ryūkyū-hishi-gai (= Okinawa-hishi-gai)

- Type locality: Amami Ōshima, 5 fms.
- Distribution: Amami islands and southwards, ECP3-ECP2.
- Habitat: intertidal to 20 m., sand.

B802 **F. bannoi (ŌTSUKA, 1937-a)**

(= *Hemicardium (Fragum) carinata* LYNGE, 1909 non BRONN, 1831, *nec* DESHAYES, 1838)

Hishi-gai (= Taiwan-hishi-gai)

- Type locality: Boko island (Penghu Liedao), Taiwan; in shelly sand.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hainan, southeast Asia, western Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Cardium (Fragum)*.

B803 **F. mundum (REEVE, 1845 in 1843-65)**

(= *Cardium arcuatulum* SOWERBY *sensu* PILSBRY, 1921; *F. thurstoni* DALL, BARTSCH & REHDER, 1938) Kusabi-hishi-gai

- Type locality: 'Lord Hood's Island, Pacific Ocean (found among coral sand)' (probably Marutea, 21° 30' S., 135° 33' W.)
- Distribution: Amami islands and southwards, ECP3-ECP2, P2, East China Sea; South China Sea, southern Pacific, Hawaii.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Cardium*.

□ Genus **Lunulicardia GRAY, 1853**

Type species: *Cardium retusum* LINNAEUS, 1767 (mt.)

(= *Opisocardium* BAYLE, 1879)

B804 **L. retusa (LINNAEUS, 1767)**

(= *Cardium excavatum* HUMPHREY, 1797)

Mokuhachi-aoi

- Type locality: '*Asia*'.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hainan, Beibu gulf, southeast Asia, northern Australia, Indo-Pacific.

- Habitat: subtidal to 50 m., sand.
- Original genus: *Cardium*.

**B805 *L. hemicardium* (LINNAEUS, 1758)**

(= *Cardium subretusum* SOWERBY II, 1841)

Hāto-gai (= Suberi-hishi-gai)

- Type locality: 'in *O. Asiatico*' (*Asian seas*).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2, East China Sea; Philippines, South China Sea, Hainan, Thailand, Indo-Pacific.
- Habitat: intertidal to 60 m., sand and mud.
- Original genus: *Cardium*.

□ Genus ***Ctenocardia* H. & A. ADAMS, 1857 in 1853-58**

Type species: *Cardium hystrix* REEVE, 1844 non LIGHTFOOT, 1786 (= *Fragum symbolicum* IREDALE, 1929)

**B806 *C. victor* (ANGAS, 1872)**

(= *C. kinai* HABE & MURAKAMI, 1970)

Asano-yuki-zaru-gai

- Type locality: 'Mauritius'.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, southeast Asia, northern Australia.
- Habitat: 10-100 m., sand.

**B807 *C. virgo* (REEVE, 1845 in 1843-65)**

(= *Cardium hystrix* REEVE, 1844 non LIGHTFOOT, 1786; *C. umbricatum* SOWERBY II, 1841 non BORN, 1778; *Fragum symbolicum* IREDALE, 1929; *Ctenocardia perornata* IREDALE, 1929; *Fragum peronatum* IREDALE, 1929 *sensu* BERNARD *et al.*, 1993)

Iga-zaru-gai

- Type locality: none designated.
- Distribution: P2; Taiwan and southwards, Philippines, South China Sea, Beibu gulf, Hainan, Thailand, Australia.
- Habitat: 10-80 m., mud and sand.
- Original genus: *Cardium*.

□ Genus ***Afrocardium* TOMLIN, 1931**

Type species: *Fragum (Afrocardium) shepstonense* TOMLIN, 1931 (o. d.)

**B808 *A. carditaeforme* (REEVE, 1845 in 1843-65)**

(= *A. ebaranum* YOKOYAMA, 1927)

Beni-bato

- Type locality: none designated.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Red Sea, Indo-Pacific.
- Habitat: subtidal to 50 m., coarse sand.
- Original genus: *Cardium*.

**B809 *A. infantile* (NOMURA & JINBO, 1934)**

(= *Cardium radula* THIELE & JAECKEL, 1831 non BRODERIP & SOWERBY, 1829; *Laevicardium thielei* FISCHER-PIETTE, 1977)

Maru-beni-bato

- Type locality: Kikai island, off Amami Ōshima (fossil).
- Distribution: Izu islands (KURODA & HABE, 1981) and southwards, P6-P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hainan, Indo-Pacific.
- Habitat: 10-100 m., gravel and coarse sand.
- Original genus: *Cardium*.

□ Genus ***Microfragum* HABE, 1951-a**

Type species: *Cardium festivum* DESHAYES, 1855 (o. d.)

**B810 *M. festivum* (DESHAYES, 1855-c)**

Kinu-hishi-gai

- Type locality: 'New Ireland' (Bismarck Archipelago, Papua New Guinea).
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, China (Hainan, Fujian), Indonesia, Australia.
- Habitat: 5-20 m., sand.
- Original genus: *Cardium*.

□ Genus ***Trigonocardia* DALL, 1900-d**

Type species: *Cardium graniferum* BRODERIP & SOWERBY, 1829 (o. d.)

**B811 *T. fornicata* (SOWERBY II, 1841-a)**

(= *Cardium adamsii* ADAMS & REEVE, 1850 in 1848-50)

Hana-zaru (= Ō-hana-zaru)

- Type locality: none designated.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea.
- Habitat: 10-50 m., sand and mud.

□ Genus ***Corculum* RÖDING, 1798**

(= *Cardissa* MERGERLE, 1811; *Cardissa* SWAINSON, 1840; *Hemicardia* CUVIER in FLEMING, 1818; *Hemicardium* CUVIER in SCHWEIGGER, 1820)

Type species: *Cardium cardissa* LINNAEUS, 1758 (s. d. MARTENS, 1870)

**B812 *C. cardissum* (LINNAEUS, 1758)**

(= *Cardium denticulatum* HUMPHREY, 1797; *C. dionaeum* BRODERIP & SOWERBY, 1829; *C. unimaculatum* SOWERBY, 1833; *Corculum obesum* BARTSCH, 1947; *Cor. laevigatum* BARTSCH, 1947; *Cor. aselae* BARTSCH, 1947; *Cor. kirai* SHIKAMA, 1964)

Ryūkyū-aoi (= Fushi-ryūkyū-aoi; Koshitaka-ryūkyū-aoi; Toge-nashi-ryūkyū-aoi; Barafu-ryūkyū-aoi; Kabuto-aoi)

- Type locality: 'in *O. Asiatico*' (*Asian seas*).
- Distribution: southern Kyūshū and southwards, ECP4-



ECP2, P2, East China Sea; Philippines, South China Sea, Indonesia, tropical Indo-Pacific.

- Habitat: subtidal to 20 m., fine sand on coral reefs.
- Original genus: *Cardium*.

**B813 *C. monstrosum* (GMELIN, 1791)**

(= *Corculum dolorosum* RÖDING, 1798; *Cor. inflatum* RÖDING, 1798; *Cardium inversum* LAMARCK, 1819) Ryūkyū-aoi-modoki (= Tenjiku-aoi; Sakasa-ryūkyū-aoi)

- Type locality: 'ad insulas Nicobaricas' (Nicobar islands, Indian Ocean).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2, East China Sea; Philippines, South China Sea, tropical Indo-Pacific.
- Habitat: subtidal to 20 m., fine sand on coral reefs.
- Original genus: *Cardium*.

**B814 *C. impressum* (LIGHTFOOT, 1786)**

(= *Cardium roseum* GMELIN, 1791; *Corculum humanum* RÖDING, 1798; *Cardium junoniae* LAMARCK, 1819) Indo-aoi (= Maesori-ryūkyū-aoi)

- Type locality: 'China'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2, East China Sea; Philippines, South China Sea, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., fine sand on coral reefs.
- Original genus: *Cardium*.

**Subfamily PROTOCARDIINAE KEEN, 1951**

□ Genus *Frigidocardium* HABE, 1952

Type species: *Cardium eos* KURODA, 1929 (o. d.) (= *Erigidocardium sensu* HABE, 1952 err.)

**B815 *F. torresi* (E. A. SMITH, 1885-a)**

(= *Cardium (Fragum?) eos* KURODA, 1929-b) Asahi-zaru-gai

- Type locality: 'Challenger' sta. 188, south of New Guinea: 09° 59' S., 139° 42' E., 28 fms.
- Distribution: Bōsō peninsula (TSUCHIDA & KUROZUMI, 1986) and southwards, P7-P5, Japan Sea (off central Niigata prefecture, J3-J1), EC5, East China Sea; South China Sea, Australia, Persian Gulf, Indo-Pacific.
- Habitat: 30-200 m., sandy mud.
- Original genus: *Cardium (Fragum)*.

**B816 *F. exasperatum* (SOWERBY II, 1841-a)**

Shimo-oki-zaru

- Type locality: 'ad oras Australiae (Swan River)'.
- Distribution: Mie prefecture (off Owase MATSUMOTO, 1979), Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hainan, Australia, Red Sea, western Pacific.
- Habitat: 50-200 m., fine sand.
- Original genus: *Cardium*.

**B817 *F. kirana* SAKURAI & HABE, 1966**

Kira-asahi-zaru

- Type locality: Kakeroma island (Amami islands).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2, East China Sea.
- Habitat: subtidal to 50 m., fine sand.

□ Genus *Trifaricardium* KURODA & HABE in HABE, 1951-a

Type species: *Trifaricardium nomurai* KURODA & HABE, 1951 (o. d.)

**B818 *Tri. nomurai* KURODA & HABE in HABE, 1951-a**

(= *Cardium cancellatum* NOMURA, 1933 non GMELIN, 1791)

Otohime-zaru

- Type locality: Taiwan (fossil).
- Distribution: Mie prefecture (off Kii-Nagashima; off Owase MATSUMOTO, 1979) and southwards, Kii peninsula (KURODA & HABE, 1981), Tosa bay; South China Sea.
- Habitat: 100-200 m., mud and sand.

□ Genus *Microcardium* THIELE, 1934 in 1929-35

Type species: *Cardium (Fulvia) peramabile* DALL, 1881 (s. d. KEEN, 1937)

**B819 *M. sakuraii* (HABE, 1961-b)**

Sakurai-kingyo

- Type locality: Tosa bay.
- Distribution: Mie prefecture (off Kii-Nagashima; off Mikizaki MATSUMOTO, 1979) and westwards, Kii peninsula, Tosa bay, southwestern Kyūshū.
- Habitat: 100-200 m., fine sand.
- Original genus: *Nemocardium (Microcardium)*.

□ Genus *Nemocardium* MEEK, 1876

Type species: *Cardium semiasperum* DESHAYES, 1858 (s. d. SACCO, 1899)

Subgenus *Nemocardium s. str.*

**B820 *N. (N.) bechei* (REEVE, 1847-b)**

Kingyo-gai

- Type locality: Negros, Philippines.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Mishima, J1), EC5, East China Sea; southern Korea, South China Sea, Indo-western Pacific, Australia.
- Habitat: 10-145 m., sand.
- Original genus: *Cardium*.

Subgenus *Lyrocardium* MEEK, 1876

Type species: *Cardium lyratum* SOWERBY II, 1841 (s. d. DALL, 1900)

(= *Amphicardium* MARTENS, 1880)

**B821 *N. (L.) lyratum* (SOWERBY II, 1841-a)**

Gingyo-gai

- Type locality: '*Dumaguete, ins. Negroes (sic) Philippinarum*' (Negros island, Philippines).
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Australia, tropical Indo-Pacific.
- Habitat: 10-100 m., sand.
- Original genus: *Cardium*.

□ Genus ***Discors* DESHAYES, 1858 in 1856-65**

Type species: *Cardium discors* LAMARCK, 1805 non MONTAGU, 1803 (by tautonymy; = *Cardium parisiense* ORBIGNY, 1850)

**B822 *D. aurantiacum* (ADAMS & REEVE, 1850 in 1848-50)**

Misakae-gingyo

- Type locality: 'China Sea'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, South China Sea, tropical Indo-Pacific, Australia (Queensland to NSW LAMPRELL & HEALY, 1998).
- Habitat: 10-100 m., sand.
- Original genus: *Cardium*.

**B823 *D. multipunctatum* (SOWERBY I, 1833)**

Gomafu-gingyo

- Type locality: '*ad littora Chinae*' (coast of China).
- Distribution: Amami islands and southwards, ECP4-ECP2, P2; South China Sea, tropical Pacific.
- Habitat: intertidal to 50 m., sand.
- Original genus: *Cardium*.

**Notes:** often erroneously cited as *Cardium millepunctatum* SOWERBY II, 1841

□ Genus ***Keenaea* HABE, 1951-a**

Type species: *Cardium samarangae* MAKIYAMA, 1934 (o. d.)

**B824 *K. samarangae* (MAKIYAMA, 1934)**

(= *Cardium modestum* ADAMS & REEVE, 1850 in 1848-50 non PHILIPPI, 1848; *Cardium adamsii* TRYON, 1872 non ADAMS & REEVE, 1850 in 1848-50)

Shima-kingyo-gai

- Type locality: southern Korea (fossil).
- Distribution: northeastern Honshū (Ōtsuchi bay TSUCHIDA & KUROZUMI, 1995-a; Fukushima prefecture and southwards), P8-P5, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea; Yellow Sea, Korea.
- Habitat: 50-300 m., sandy mud.
- Original genus: *Cardium*.

Subfamily **LAEVICARDIINAE KEEN, 1936**

□ Genus ***Laevicardium* SWAINSON, 1840**

Type species: *Cardium oblongum* GMELIN, 1791 (s. d. STOLICZKA, 1871)  
(= *Exocardium* OLSSON, 1964)

**B825 *L. attenuatum* (SOWERBY II, 1841-a)**

Makura-zaru-gai

- Type locality: '*ad insulam Ceylon*' (Sri Lanka).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2, East China Sea; Philippines, South China Sea, Australia, Indo-Pacific, Indian Ocean.
- Habitat: subtidal to 40 m., sand and mud.
- Original genus: *Cardium*.

**B826 *L. biradiatum* (BRUGUIÈRE, 1789 in 1789-1816)**

(= *Cardium serratum* GMELIN, 1791 non LINNAEUS, 1758)

Suberi-zaru-gai

- Type locality: 'de l'île de Ceylan...sur les côtes sablonneuses' (Sri Lanka, on sandy shores).
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Australia, Indo-Pacific.
- Habitat: subtidal to 20 m., sand.
- Original genus: *Cardium*.

**B827 *L. rubropictum* HABE & KOSUGE, 1966-a**

(= *Cardium biradiatum* REEVE, 1845 non BRUGUIÈRE, 1789 in 1789-1816, nec BOSCH, 1801)

Akafu-zaru-gai

- Type locality: Zamboanga, Mindanao, Philippines.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, ECP4-ECP2, P2, East China Sea; South China Sea, Philippines, Indo-Pacific.
- Habitat: intertidal to 20 m., sand and mud.

**B828 *L. lobulatum* (DESHAYES, 1855-c)**

Shimitsuki-zaru-gai

- Type locality: 'Philippines'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2, East China Sea; South China Sea, Philippines, western Pacific.
- Habitat: subtidal to 20 m., sand and mud.
- Original genus: *Cardium*.

□ Genus ***Clinocardium* KEEN, 1936**

Type species: *Cardium nuttallii* CONRAD, 1837 (o. d.) (Refs.: Kafanov, 1974)

Subgenus ***Clinocardium s. str.***

**B829 *C. (C.) nuttallii* (CONRAD, 1837-a)**

(= *Cardium corbis* MARTYN *sensu* KEEN, 1957)

Ō-ishikage-gai

- Type locality: California.
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, P9-P10, OP, Hokkaidō, Okhotsk Sea; Bering Sea, Alaska, northwestern USA to California.

- Habitat: 10-50 m., sandy mud.
- Original genus: *Cardium*.

Subgenus ***Keenocardium* KAFANOV, 1974**

Type species: *Cardium californiense* DESHAYES, 1839 (o. d.)

B830 *C. (K.) californiense* (DESHAYES, 1839)

(= *C. uchidai* HABE, 1955-a)

Ezo-ishikage-gai

- Type locality: 'Cotes de Californie' (California, USA).
- Distribution: northeastern Honshū (Fukushima prefecture) and northwards, P8-P10, OP, northern East China Sea and northwards, Japan Sea (J1-J5), Kuril islands, Okhotsk Sea; Kamchatka, northwestern USA.
- Habitat: 10-200 m., sandy mud.
- Original genus: *Cardium*.

B831 *C. (K.) buellowi* (ROLLE, 1896)

(= *Cardium californiense* auct. non DESHAYES, 1839; *C. vulva* JOUSSEAUME, 1898)

Ishikage-gai

- Type locality: no specific locality given; title of paper is 'Von den *Cardium* der nordpazifischen Küsten' (*Cardium* of the coasts of the northern Pacific').
- Distribution: northeastern Honshū (Fukushima prefecture) and northwards, P8-P10, northern Kyūshū and northwards, Japan Sea (J1-J4), Hokkaidō; Korea, Yellow Sea.
- Habitat: 10-200 m., sandy mud.
- Original genus: *Cardium*.

Subgenus ***Ciliatocardium* KAFANOV, 1974**

Type species: *Cardium ciliatum* FABRICIUS, 1780 (o. d.)

B832 *C. (Ciliatocardium) ciliatum* (FABRICIUS, 1780)

(= *Cardium islandicum* BRUGUIÈRE, 1789 in 1789-1816)

Kokera-ishikage-gai

- Type locality: Greenland.
- Distribution: northeastern Honshū (Ōtsuchi bay TSUCHIDA & KUROZUMI, 1995-a) and northwards, P9-P10, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J4), Hokkaidō, OP, Kuril islands, Okhotsk Sea; Bering Sea, Alaska, Arctic, northern Atlantic Ocean.
- Habitat: 10-200 m., mud.
- Original genus: *Cardium*.

□ Genus ***Fuscocardium* ŌYAMA, 1973**

Type species: *Cardium braunsi* TOKUNAGA, 1906 (o. d.)

B833 *F. braunsi* (TOKUNAGA, 1906)

Buraunzu-ishikage-gai

- Type locality: Ōji, Tōkyō City (fossil).
- Distribution: Genkai-nada (Fukuoka prefecture, Kyūshū; in fishery spoil-heaps).

□ Genus ***Serripes* GOULD, 1841**

Type species: *Cardium groenlandicum* BRUGUIÈRE, 1789 in 1789-1816 (mt.)

(= *Aphrodite* LEA, 1834 non LINK, 1807; *Acardo* SWAINSON, 1840 non LAMARCK, 1788; *Yagudinella* KAFANOV, 1975)

B834 *S. groenlandicus* (BRUGUIÈRE, 1789 in 1789-1816)

(= *Cardium notabilis* SOWERBY, 1915)

Uba-tori-gai

- Type locality: 'sur les côtes du Groenland' (coasts of Greenland).
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, P8-P10, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J4), OP, Hokkaidō, Kuril islands, Okhotsk Sea; Alaska, northern Pacific, northern Atlantic Ocean.
- Habitat: 10-260 m., sandy mud.
- Original genus: *Cardium*.

B835 *S. laperousii* (DESHAYES, 1839)

(= *Mactra fujimensis* YOKOYAMA, 1932)

Naga-uba-tori-gai

- Type locality: 'Mers de Californie' (Californian seas).
- Distribution: southern Hokkaidō and northwards, P10, OP, Japan Sea (Oga peninsula, J4-J5), Kuril islands, Okhotsk Sea; Bering Sea.
- Habitat: 50-200 m., sandy mud.
- Original genus: *Cardium*.

□ Genus ***Fulvia* GRAY, 1853**

Type species: *Cardium apertum* BRUGUIÈRE, 1789 in 1789-1816 (mt.)

B836 *F. aperta* (BRUGUIÈRE, 1789 in 1789-1816)

(= *Cardium rugatum* REEVE, 1844 non DILLWYN, 1817)

Emai-botan (= Hoho-emi-botan)

- Type locality: none designated.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Seto inland sea, Japan Sea (off Yamagata prefecture, J3-J1), EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hainan, Indonesia, Malaysia, Australia.
- Habitat: 3-30 m., sand and mud.
- Original genus: *Cardium*.

B837 *F. mutica* (REEVE, 1844 in 1843-65)

(= *Cardium japonicum* DUNKER, 1859; *C. annae* PILSBRY, 1904)

Tori-gai

- Type locality: none designated.
- Distribution: Mutsu bay (Aomori prefecture) and southwards, P10-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea; Korea, China,

Yellow Sea, Hong Kong.

- Habitat: 10-60 m., sandy mud.
- Original genus: *Cardium*.

**B838 *F. australis* (SOWERBY II, 1841-a)**

(= *Cardium pulchrum* REEVE, 1845)

Botan-gai

- Type locality: 'ad Australiam, et ad mare Sinense' (Australia and China Sea).
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Australia, Indo-Pacific.
- Habitat: 10-30 m., sandy mud.
- Original genus: *Cardium*.

**B839 *F. hungerfordi* (SOWERBY III, 1901)**

Chigo-tori-gai

- Type locality: Hirado island, Nagasaki prefecture, western Kyūshū.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5; South China Sea, Hong Kong, China, Thailand, Indonesia, western Pacific.
- Habitat: subtidal to 45 m., sandy mud.
- Original genus: *Cardium*.

**B840 *F. undatopicta* (PILSBRY, 1904-c)**

(= *Cardium hungerfordi stigmaticum* PILSBRY, 1904)

Madara-chigo-tori-gai

- Type locality: 'Hirado, Hizen' (Hirado island, Nagasaki prefecture, western Kyūshū).
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2; Philippines, South China Sea, Indo-Pacific, Australia (Gulf of Carpentaria LAMPRELL & HEALY, 1998).
- Habitat: subtidal to 100 m., sandy mud.
- Original genus: *Cardium* (as ssp. of *hungerfordi*).

**B841 *F. papyracea* (BRUGUIÈRE, 1789 in 1789-1816)**

Papirusu-tori-gai

- Type locality: 'dans les mers des grandes Indes' ('seas of the East Indies'; Bruguière took this locality from Chemnitz in Martini & Chemnitz - he noted that he had never personally seen a specimen).
- Distribution: Amami Ōshima (KURODA, 1928-c; HABE, 1977-a); South China Sea, Taiwan (BERNARD *et al.*, 1993), Red Sea, Mediterranean.
- Original genus: *Cardium*.

**Family TRIDACNIDAE LAMARCK, 1819 in 1815-22**

(Refs.: Rosewater, 1965)

□ Genus *Hippopus* LAMARCK, 1799

Type species: *Chama hippopus* LINNAEUS, 1758 (mt.)

**B842 *H. hippopus* (LINNAEUS, 1758)**

(= *Chama striata* PETIVIER, 1767; *C. asininus* BARBUT, 1788; *Tridacna unguolata* RÖDING, 1796; *T. ursina* HUMPHREY, 1797; *Tridacnes ungula* RÖDING, 1798; *Hippopus maculatus* LAMARCK, 1801; *H. brassica* BOSC, 1802; *H. equinus* MÖRCH, 1853)

Shagō

- Type locality: 'in M. Asiatico' (Asian seas).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, South China Sea, Malaysia, northern Australia, western Pacific.
- Habitat: subtidal to 30 m., among coral; juveniles attached by byssus.
- Original genus: *Chama*.

□ Genus *Tridacna* BRUGUIÈRE, 1797 in 1791-1797

Type species: *Chama gigas* LINNAEUS, 1758 (s. m.

LAMARCK, 1799)

(= *Tridachnes* RÖDING, 1798; *Tridacnodites* KRÜGER, 1823; *Gataron* BERTHOLD in LATRIELLA, 1827; *Dinodacna* IREDALE, 1937-a; *Hippopus* MARTIN in GRAY, 1847 non LAMARCK, 1799)

Subgenus *Tridacna s. str.*

**B843 *T. (T.) gigas* (LINNAEUS, 1758)**

(= *Tridacne imbricata* LINK, 1807; *T. mutica* LAMARCK, 1819 (*pars*); *Tridacna lamarcki* HIDALGO, 1903; *Dinodacna cookiana* IREDALE, 1937-a)

Ō-shako-gai

- Type locality: 'in M. Asiatico' (Asian seas), restricted to 'Amboina, Indonesia' (ROSEWATER, 1965).
- Distribution: Okinawa prefecture (Miyako islands) and southwards, P2; Philippines, South China Sea, Australia, western Pacific.
- Habitat: intertidal to 20 m., on coral reefs.
- Original genus: *Chama*.

Subgenus *Chametrachea* MÖRCH, 1853

Type species: *Tridacna crocea* LAMARCK, 1819 (s. d. IREDALE, 1937-a)

**B844 *T. (C.) crocea* LAMARCK, 1819 in 1815-22**

(= *Chametrachea scapha* H. & A. ADAMS, 1857 in 1853-58; *Tridacna cumingii* REEVE, 1862 (*pars*); *T. ferruginea* REEVE, 1862; *T. mutica* QUOY & GAIMARD, 1834 non LAMARCK, 1819)

Hime-jako

- Type locality: 'l'Océan indien' (Indian Ocean).
- Distribution: southern Kyūshū and southwards, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Indonesia, Malaysia, Moluccas, Persian Gulf, northeastern Australia, Indo-western Pacific.
- Habitat: intertidal to 20 m., encased in coral.

Subgenus *Flodacna* IREDALE, 1937-a

Type species: *Tridacna squamosa* LAMARCK, 1819 (o. d.)

(= *Sepidacna*, *Vulgodacna* IREDALE, 1937-a)

B845 *T. (F.) squamosa* LAMARCK, 1819 in 1815-22  
(= *T. elongatissima* BIANCONI, 1856; *T. lamarcki* (pars) HIDALGO, 1903)

Hire-jako

- Type locality: 'l'Océan indien' (Indian Ocean).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, South China Sea, Thailand, Red Sea, Australia, Indo-Pacific.
- Habitat: intertidal, attached to or encased in coral.

B846 *T. (F.) maxima* (RÖDING, 1798)  
(= *Tridacnes noae* RÖDING, 1798; *Tridacna gigas* LAMARCK, 1801 non LINNAEUS, 1758; *T. elongata* LAMARCK, 1819; *T. mutica* LAMARCK, 1819 (pars); *T. rudis*, *compressa*, *cumingii* (pars), all REEVE, 1862; *T. lanceolata* SOWERBY III, 1884; *T. maxima* var. *fossor* HEDLEY, 1921; *T. troughtoni* IREDALE, 1927) Shiranami (= Hoso-suji-shiranami; Ō-shiranami)

- Type locality: none originally given; designated 'Mauritius' (ROSEWATER, 1965).
- Distribution: Kii peninsula and southwards, P5, western Japan Sea (northern Yamaguchi prefecture KAWAKAMI & ITŌ, 1997; J1), southern Kyūshū, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Red Sea, Australia, Indo-Pacific.
- Habitat: intertidal to 20 m., attached by byssus among coral.
- Original genus: *Tridacnes*.

Subgenus *Persikima* IREDALE, 1937-a

Type species: *Persikima whitleyi* IREDALE, 1937 (o. d.; = *Tridachnes derasa* RÖDING, 1798)

B847 *T. (P.) derasa* (RÖDING, 1798)  
(= *Tridacne glabra* LINK, 1807; *Tridacna serrifera* LAMARCK, 1819; *T. obessa* SOWERBY III, 1899; *Persikima whitleyi* IREDALE, 1937-a)

Hire-nashi-shako

- Type locality: none originally given; designated 'Amboina, Indonesia' (ROSEWATER, 1965).
- Distribution: southern Shikoku (Cape Muroto; Okinoshima) and southwards, P5, ECP4-ECP2, P2; South China Sea, Philippines, Australia, Indonesia, Cocos-Keeling islands to western Micronesia.
- Habitat: intertidal to 20 m., in atoll lagoons and on reefs; usually attached.
- Original genus: *Tridachnes*.

Superfamily MACTROIDEA LAMARCK, 1809

Family MACTRIDAE LAMARCK, 1809

Subfamily MACTRINAE LAMARCK, 1809

□ Genus *Mactra* LINNAEUS, 1767

Type species: *Cardium stultorum* LINNAEUS, 1758 (s. d. FLEMING, 1818)

(= *Trigonella* DA COSTA, 1778; *Deikaa* MAYER, 1872; *Colorimactra* IREDALE, 1929)

Subgenus *Mactra* s. str.

B848 *M. (M.) chinensis* PHILIPPI, 1846 in 1842-51  
(= *M. sulcataria* DESHAYES, 1853; *M. carneopicta* PILSBRY, 1904)

Baka-gai (= Ezo-baka-gai)

- Type locality: 'China'.
- Distribution: Ōtsuchi bay (Iwate prefecture TSUCHIDA & KUROZUMI, 1995-a), Hokkaidō, Okhotsk Sea, Kuril islands, OP, Japan Sea (J6-J1), EC5, East China Sea; Russia (southern Primoriye region ARZAMASTSEV, 1997), Sakhalin, Korea, China, Bo-hai, Yellow Sea, Taiwan.
- Habitat: intertidal to 20 m., sand and mud.

B849 *M. (M.) veneriformis* REEVE, 1854 in 1843-65  
(= *M. quadrangularis* REEVE, 1854 in 1843-65; *M. bonneaui* BERNARDI, 1858; *M. zonata* LISCHKE, 1871; *Trigonella quadrangularis ventricosa* GRABAU & KING, 1928)

Shio-fuki

- Type locality: 'China Sea and Japan'.
- Distribution: northeastern Honshū (Miyagi prefecture) and southwards, P8-P5, Seto inland sea, Japan Sea (Yamagata prefecture, J3-J1), EC5, East China Sea; southern Primoriye region (Japan Sea coast of Russia), Korea, Yellow Sea, China, South China Sea, Hainan.
- Habitat: intertidal to 20 m., sand and mud.

B850 *M. (M.) achatina* HOLTEN, 1802  
(= *M. maculosa* LAMARCK, 1819; *M. ornata* GRAY, 1837)

Beni-hamaguri

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, northwestern Kyūshū, Japan Sea (J1), EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, China (Guangdong), Australia, Indo-western Pacific.
- Habitat: 10-60 m., sand.

B851 *M. (M.) maculata* GMELIN, 1791  
(= *M. squalida* LAMARCK, 1818 in 1815-22; *M. setosa* QUOY & GAIMARD, 1835; *M. reevei* DESHAYES, 1853 non GRAY, 1837)

Ryūkyū-baka-gai

- Type locality: 'in Oceano indico' (Indian Ocean).
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Australia.

- Habitat: 10-30 m., sand.

**B852 *M. (M.) nipponica* KURODA & HABE in KURODA *et al.*, 1971**

Chigo-baka-gai

- Type locality: Sagami bay, central Honshū.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (northern Niigata prefecture, J3-J1), EC5.
- Habitat: 10-100 m., sandy mud.

**B853 *M. (M.) pulchella* PHILIPPI, 1846 in 1842-51**

Tōkai-tama-maki (= Chigo-minato-gai)

- Type locality: 'China'.
- Distribution: central East China Sea (100-115 m.), ECP3-ECP2 and southwards; China (intertidal to 5 m., sand).

**B854 *M. (M.) chemnitzii* GRAY, 1837**

(= *M. grandis auct. non* GMELIN, 1791; *M. mera* DESHAYES, 1853; *M. antiquata* SPENGLER *sensu* REEVE, 1854 *non* SPENGLER, 1802)

Ryūkyū-ariso-gai

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, East China Sea; Philippines, Yellow Sea, South China Sea, Hainan, Borneo, Indo-Pacific.
- Habitat: 10-30 m., sandy mud.

**B855 *M. (M.) artensis* MONTROUZIER in FISCHER, 1859 in 1859-63**

Yuyake-baka-gai

- Type locality: 'L'île Art, sur le rivage, apres les forts coups de vent' (Art island, New Caledonia; on reef after strong winds).
- Distribution: Okinawa (KURODA, 1960); Philippines, New Caledonia, Australia.
- Habitat: intertidal in coral sand.

Note: *M. (M.) radiata* DUNKER, 1871 - type locality: '*ad insulam Chinensem Taiwan vel Formosa dictam*' (said to be from the Chinese island of 'Taiwan' or 'Formosa') was recorded from 'Pacific coast at 25° N.' (KURODA & HABE, 1952-a); the present authors have been unable to confirm distribution of this species in Japan.

**Subgenus *Telemactra* IREDALE, 1929**

Type species: *Mactra obesa* REEVE, 1854 (o. d.)

**B856 *M. (T.) crossei* (DUNKER, 1877)**

Hime-baka-gai

- Type locality: Japan.
- Distribution: northeastern Honshū (Ōtsuchi bay TSUCHIDA & KUROSUMI, 1995-a) and southwards, P9-P5, Japan Sea (Yamagata prefecture, J3-J1), EC5, East China Sea.
- Habitat: subtidal to 20 m., sand.

- Original genus: *Trigonella*.

**B857 *M. (T.) iridescens* KURODA & HABE in HABE, 1958-b**

Niji-minato-gai

- Type locality: off Yakushima, south of Kagoshima, Kyūshū.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4, East China Sea; Australia (northern Western Australia LAMPRELL & HEALY, 1998).
- Habitat: 20-200 m., fine sand.

**B858 *M. (T.) cuneata* GMELIN, 1791**

(= *Colorimactra florens* IREDALE, 1929)

Tama-maki-gai (= Waka-murasaki)

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2, East China Sea; Philippines, South China Sea, Australia, Indo-Pacific.
- Habitat: subtidal to 20 m., sand.

**B859 *M. (T.) aphrodina* DESHAYES, 1854-e**

(= *M. luzonica* DESHAYES, 1854; *M. apicina* REEVE, 1854; *M. luzonica* REEVE, 1854 *non* DESHAYES, 1854) Naga-tama-maki

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Yellow Sea, Bo-hai, Australia.
- Habitat: subtidal to 60 m., mud and sand.

□ Genus *Coleomactra* DALL, 1895-b

Type species: *Mactra violacea* GMELIN, 1791 (o. d.)

**B860 *C. antiquata* (SPENGLER, 1802)**

(= *Mactra cornea* DESHAYES, 1854; *M. cornea* REEVE, 1854 *non* DESHAYES, 1854; *M. spectabilis* LISCHKE, 1871)

Ariso-gai

- Type locality: Australia.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea, P2; Yellow Sea, Bo-hai, Korea, South China Sea, Hong Kong, China (Fujian), southeast Asia, Australia.
- Habitat: subtidal to 50 m., fine sand.
- Original genus: *Mactra*.

□ Genus *Mactrinula* GRAY, 1853

Type species: *Mactra plicaria sensu* GRAY, 1853 (o. d.); = *Mactra plicataria* LINNAEUS, 1767)

(= *Mactrella* GRAY, 1853; *Papyrina* MÖRCH, 1853)

**B861 *Mactrinula dolabrata* (DESHAYES, 1854-e)**

(= *Mactra dolabrata* REEVE, 1854 in 1843-65 *non*

DESHAYES, 1854)

Sori-tama-maki (= Koke-minato-gai)

- Type locality: none designated.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Ōsaka bay (OKAMURA & KOJIMA, 1984), Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea; South China Sea, Yellow Sea, Taiwan, Indonesia, southeast Asia.
- Habitat: 30-250 m., fine sand.
- Original genus: *Maetra*.

□ Genus *Mactrotoma* DALL, 1894-c

Type species: *Maetra fragilis* GMELIN, 1791 (o. d.)

B862 *M. depressa* (SPENGLER, 1802)

Hina-miru-kui (= Miru-kui-modoki)

- Type locality: Australia.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5; South China Sea, Taiwan, Philippines, Indonesia, Australia.
- Habitat: 10-500 m., sandy mud.
- Original genus: *Maetra*.

□ Genus *Micromactra* DALL, 1894-b

Type species: *Maetra californica* CONRAD, 1837 (mt.)

B863 *Micromactra angulifera* (DESHAYES, 1854-e)

Waka-miru-gai

- Type locality: 'Ticao, Philippines'.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Seto inland sea, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5, East China Sea; South China Sea, Taiwan, southeast Asia.
- Habitat: 5-100 m., sandy mud.
- Original genus: *Maetra*.

□ Genus *Pseudocardium* GABB, 1866

Type species: *Cardium gabbi* RÉMOND, 1863 (mt.; = *Mulinia densata* CONRAD, 1857)

B864 *P. sybillae* (VALENCIENNES, 1858)

(= *Maetra sachalinensis* SCHRENCK, 1862; *M. luehdorfi* DUNKER, 1870; *M. dunkeri* YOKOYAMA, 1922; *M. sachalinensis imperialis* YOKOYAMA, 1922)

Uba-gai (= Hokki-gai)

- Type locality: Maritime province (Primoriye region, Japan Sea coast of Russia).
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and northwards, P8-P10, Japan Sea (Yamagata prefecture, J3-J5), OP, Kuril islands, Okhotsk Sea; northern Korea, Russia (southern Primoriye region ARZAMASTSEV, 1997), Sakhalin.
- Habitat: intertidal to 30 m., fine sand.

□ Genus *Mactromeris* CONRAD, 1868-a

Type species: *Maetra ovalis* GOULD, 1840 non SOWERBY, 1817 (s. d. STOLICZKA, 1871; = *Maetra polynema* STIMPSON, 1860) (= *Mactrodesma* CONRAD, 1869)

B865 *Mactromeris polynema* (STIMPSON, 1860)

(= *Maetra ovalis* GOULD, 1840 non SOWERBY, 1817; *Spisula polynema alaskana* DALL, 1894; *Spisula vladivostokensis* BARTSCH, 1929)

Naga-uba-gai

- Type locality: Massachusetts, northeastern USA.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and northwards, Iwate prefecture (Ōtsuchi bay TSUCHIDA & KUROZUMI, 1995-a), P8-P10, Japan Sea (Wakasa bay, J2-J5), Hokkaidō, OP, Kuril islands, Okhotsk Sea; northern Pacific, north America.
- Habitat: intertidal to 200 m., fine sand and mud.
- Original genus: *Maetra*.

□ Genus *Oxyperas* MÖRCH, 1853 in 1852-3

Type species: *Maetra triangularis* LAMARCK, 1818' (mt.; = *Maetra lentiginosa* GOULD, 1852)

Subgenus *Oxyperas* s. str.

B866 *O. (O.) lentiginosa* GOULD, 1852 in 1852-61

(= *Maetra triangularis* LAMARCK, 1818 non MONTAGU, 1803)

Sankaku-hokuro-gai

- Type locality: 'some of the specimens are marked Feejees (Fiji) and some New Zealand. The former is probably the true locality'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, South China Sea.
- Habitat: subtidal to 20 m., sand and shell fragments.
- Original genus: *Maetra*.

B867 *O. (O.) bernardi* (PILSBRY, 1904-c)

Hokuro-gai

- Type locality: 'Fukura' (now Tannan village), Awaji island, eastern Seto inland sea.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea; Taiwan, South China Sea.
- Habitat: 10-100 m., sandy mud and shell fragments.
- Original genus: *Spisula* (*Oxyperas*).

Subgenus *Pseudoxyperas* SACCO, 1901-a

Type species: *Pseudoxyperas proaspera* SACCO, 1901 (o. d.)

B868 *O. (P.) aspersa* (SOWERBY I, 1825)

(= *Maetra tenera* WOOD, 1828 in 1818-28; *M. egena* DESHAYES, 1854)

Ōshima-hokuro-gai

- Type locality: none designated.

- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, southern Kyūshū, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Australia, Indo-Pacific.

- Habitat: 10-30 m., fine sand.

- Original genus: *Mactra*.

Subfamily **LUTRARIINAE H. & A. ADAMS, 1856 in 1853-58**

□ Genus *Lutraria* **LAMARCK, 1799**

Type species: *Mya lutraria* LINNAEUS, 1758 (by tautonymy)

(= *Eustylodon* GISTL, 1848; *Cacophonia* GISTL, 1848)

Subgenus *Psammophila* **BROWN, 1827**

B869 *L. (P.) maxima* **JONAS, 1844**

Ōtori-gai

- Type locality: China.

- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea, P2; South China Sea, southeast Asia.

- Habitat: intertidal to 10 m., in sand.

B870 *L. (P.) sieboldii* **DESHAYES, 1854-e**

(= *L. radiata* YOKOYAMA, 1920)

Hira-kamoji-gai

- Type locality: 'Japan'.

- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea; southeast Asia.

- Habitat: subtidal to 100 m., sandy mud.

B871 *L. (P.) arcuata* **DESHAYES, 1854-e**

(= *L. arcuata* REEVE, 1854 in 1843-65 non DESHAYES, 1854-e; *L. lucida* GOULD, 1861)

Kamoji-gai

- Type locality: 'Luzon, Philippines'.

- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Seto inland sea, EC5, P2; Philippines, China, southeast Asia, Australia.

- Habitat: subtidal to 30 m., sandy mud.

B872 *L. (P.) impar* **DESHAYES, 1854-e**

(= *L. impar* REEVE, 1854 in 1843-65 non DESHAYES, 1854-e; *L. impar* DESHAYES, 1845 *sensu* BERNARD *et al.*, 1993)

- Type locality: 'Moreton Bay, Australia'.

- Distribution: East China Sea; South China Sea, Philippines, Thailand, Australia.

- Habitat: 10-50 m., sand.

□ Genus *Tresus* **GRAY, 1853**

Type species: *Lutraria maxima* MIDDENDORFF, 1849 non JONAS, 1844 (mt.; = *Lutraria nuttalli* CONRAD, 1837)

(= *Tresus* WALCKENEAR, 1833 *nom. nud.*;

*Schizothaerus* CONRAD, 1853; *Cryptodon* CONRAD, 1837 non TURTON, 1822)

B873 *T. keenae* **(KURODA & HABE, 1950-b)**

(= *T. nuttalli* CONRAD *sensu* YOKOYAMA, 1922;

*Schozothaerus* (*sic*) *nuttalli* CONRAD *sensu* S. HIRASE & KURODA, 1947)

Miru-kui

- Type locality: Tōkyō bay.

- Distribution: Hokkaidō and southwards, P10-P5 (Kii peninsula KURODA & HABE, 1981), Japan Sea (J5-J1); Korea, Sakhalin, Primoriye region (Japan Sea coast of Russia).

- Habitat: subtidal to 20 m., gravel and mud in bays.

- Original genus: *Schizothaerus*.

□ Genus *Meropesta* **IREDALE, 1929**

Type species: *Meropesta meridiana* IREDALE, 1929 (o. d.)

B874 *M. nicobarica* **(GMELIN, 1791)**

(= *Mactra aegyptiaca* DILLWYN, 1817)

Yuki-gai

- Type locality: '*ad insulas Nicobaricas*' (Nicobar islands, Indian Ocean).

- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Seto inland sea, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5, East China Sea; Taiwan, South China Sea, Hong Kong, Hainan, Indo-Pacific.

- Habitat: intertidal to 20 m., sand.

- Original genus: *Mactra*.

B875 *M. pellucida* **(GMELIN, 1791)**

Habutae-yuki-gai

- Type locality: '*ad Guineae littus*' (shores of New Guinea).

- Distribution: Seto inland sea (Kojima bay), western Kyūshū (Ariake inland sea), East China Sea; Taiwan, South China Sea.

- Habitat: intertidal in mud.

- Original genus: *Mactra*.

B876 *M. capillacea* **(DESHAYES, 1854-e)**

(= *Mactra capillacea* REEVE, 1854 in 1843-65 non DESHAYES, 1854-e)

Chirimen-yuki-gai

- Type locality: 'Philippines; mouth of the Indus'.

- Distribution: Seto inland sea, western Kyūshū (Ariake inland sea), East China Sea; Taiwan, South China Sea, Hainan, Philippines.

- Habitat: intertidal, mud in bays.

- Original genus: *Mactra*.

B877 *M. sinojaponica* **ZHUANG, 1983**

- Type locality: China.



- Distribution: Kyūshū to Bo-hai, East China Sea; Yellow Sea, South China Sea, Malaysia (BERNARD *et al.*, 1993).
- Habitat: intertidal in sand.

Subfamily **PTEROPSELLINAE KEEN, 1969**

□ Genus ***Raeta* GRAY, 1853 in 1853-57**

Type species: *Maetra campechensis* GRAY, 1825 (mt.; = *Lutraria plicatella* LAMARCK, 1818)  
(= *Lovellia* MAYER, 1887)

Subgenus ***Raetina* DALL, 1895-c**

Type species: *Labiosa (Raetina) indica* DALL, 1895 (o. d.; *nomen nudum*; = *L. (R.) indica* DALL, 1898)

B878 ***R. (R.) pellicula* (DESHAYES, 1854-e)**

(= *Maetra pellicula* REEVE, 1854 in 1843-65 *non* DESHAYES, 1854; *M. anatinoides* REEVE, 1854 in 1843-65; *Raeta grayi* H. ADAMS, 1872; *R. abercrombiei* MELVILL, 1893; *R. indica* DALL, 1898-a; *R. jickelii* STURANY, 1905; *R. magnifica* YOKOYAMA, 1922; *R. fragilis* GRABAU & KING, 1928)

Yachiyo-no-hana-gai

- Type locality: 'Japan'.
- Distribution: northeastern Honshū (Fukushima prefecture) and southwards, P8-P5, Seto inland sea, EC5, East China Sea; Yellow Sea, Bo-hai, Taiwan, Red Sea to southeast Asia, Indo-Pacific.
- Habitat: subtidal to 20 m., mud in bays.
- Original genus: *Maetra*.

□ Genus ***Raetella* DALL, 1895-c**

Type species: *Labiosa (Raetella) tenuis* DALL, 1895 (o. d.) (= *Raetellops* HABE, 1952)

B879 ***Raetella pulchella* (ADAMS & REEVE, 1850 in 1848-50)**

(= *Raeta yokohamaensis* PILSBRY, 1895; *Raeta elliptica* YOKOYAMA, 1922)

Chiyo-no-hana-gai (= Yokohama-chiyo-no-hana)

- Type locality: 'shores of Borneo'.
- Distribution: southern Hokkaidō and southwards, northeastern Honshū (Ōtsuchi bay TSUCHIDA & KUROZUMI, 1995-a), P10-P5, Seto inland sea, Japan Sea (J4-J1), EC5, East China Sea; Korea, Primoriye region (Japan Sea coast of Russia), Yellow Sea, Bo-hai, Taiwan, South China Sea, Australia.
- Habitat: subtidal to 100 m., sandy mud.
- Original genus: *Poromya*.

Family **MESODESMATIDAE GRAY, 1840**

(Refs: Habe, 1952-g; Beu, 1971; Sakurai & Habe, 1973-a)

Subfamily **MESODESMATINAE GRAY, 1840**

□ Genus ***Atactodea* DALL, 1895-c**

Type species: *Maetra glabrata* GMELIN, 1791 (o. d.; = *Maetra striata* GMELIN, 1791)

(= *Paphia* LAMARCK, 1799 *non* RÖDING, 1798)

B880 ***A. striata* (GMELIN, 1791)**

(= *Maetra glabrata* GMELIN, 1791; *Mesodesma trigona* DESHAYES, 1853)

Iso-hamaguri

- Type locality: none designated.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Seto inland sea, EC5, P2, East China Sea; Philippines, Hong Kong, South China Sea, Hainan, Thailand, Malaysia, Red Sea, Australia, Indo-Pacific.
- Habitat: intertidal, sand.
- Original genus: *Maetra*.

□ Genus ***Donacilla* PHILIPPI, 1836 in 1836-44**

Type species: *Donacilla lamarcki* PHILIPPI, 1836 (mt.; = *Maetra cornea* POLI, 1795)

(= *Donacilla* BLAINVILLE, 1819 invalid - ICZN op. 1141)

B881 ***D. picta* DUNKER, 1877**

Chidori-masuhō (= Chidori-gai)

- Type locality: Japan.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Seto inland sea, Japan Sea (Noto peninsula, J2-J1), East China Sea; P2, Philippines.
- Habitat: intertidal, sand.

□ Genus ***Coecella* GRAY, 1853**

Type species: *Coecella horsfieldii* GRAY, 1853 (o. d.) (= *Caecella auct.*, err.)

B882 ***C. horsfieldii horsfieldii* DESHAYES, 1855-c**

(= *C. turgida*, *cumingiana*, *transversalis*, *zelandica*, *tenuis*, all DESHAYES, 1855-c)

Suki-kuchiba-gai

- Type locality: 'Madras' (India).
- Distribution: East China Sea; Taiwan, Hong Kong, South China Sea, Philippines, Australia.
- Habitat: intertidal, coarse sand.

B883 ***C. horsfieldii formosa* ROOIJ-SCHUILING, 1972**

Maru-kuchiba-gai

- Type locality: Taiwan.
- Distribution: East China Sea; Taiwan, South China Sea.
- Habitat: intertidal, sand.

B884 ***C. chinensis* DESHAYES, 1855-c**

(= *C. zebuensis* DESHAYES, 1855; *C. oblonga* DESHAYES, 1855; *C. convexa* DESHAYES, 1855; *C. lata* DESHAYES, 1859; *Ervilia otsuensis* YOKOYAMA, 1920)  
Kuchiba-gai

- Type locality: 'Chinese Seas'.
- Distribution: southern Hokkaidō (KURODA & HABE, 1981) and southwards, P10-P5, EC5; Korea, China, Bo-hai, Yellow Sea, Philippines.
- Habitat: intertidal, coarse sand and stones.

Subfamily **DAVILINAE DALL, 1895**

□ Genus *Davila* GRAY, 1853 in 1853-57

Type species: *Davila polita* GRAY, 1853 (mt.; = *Mesodesma planum* REEVE, 1843)

B885 *D. plana* (REEVE, 1843 in 1843-65)

(= *D. polita* GRAY, 1843; *Mesodesma munda* GOULD, 1851; *D. picta* GRAY, 1843 *sensu* KURODA & HABE, 1981; *Mesodesma crassula* DESHAYES, 1854)

Naminoko-masuhō

- Type locality: 'Island of Ticao, Philippines'.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, EC5, ECP4-ECP2, P2; Philippines, South China Sea, Australia, Indo-Pacific.
- Habitat: intertidal, sand.
- Original genus: *Mesodesma*.

□ Genus *Monterosatus* BEU, 1971

Type species: *Nesis prima* LOCARD, 1899 (mt.) (= *Nesis* LOCARD, 1899 *non* MULSANT, 1850)

B886 *M. amamiensis* SAKURAI & HABE, 1973

Kohaze-gai

- Type locality: Amami Ōshima.
- Distribution: Amami Ōshima and southwards, ECP3-ECP2; South China Sea.
- Habitat: intertidal to 5 m., sand and rock crannies.

Family **ANATINELLIDAE GRAY, 1853**

(Refs: Habe, 1951-f)

□ Genus *Anatinella* SOWERBY I, 1833 in SOWERBY, J. C. & G. B. I, 1821-34

Type species: *Anatinella siboldii* SOWERBY I, 1833 (mt.; = *Mya nicobarica* GMELIN, 1791)

B887 *A. nicobarica* (GMELIN, 1791)

(= *A. ventricosa* A. ADAMS, 1850-d; *A. candida* DESHAYES, 1850; *A. siboldii* SOWERBY I, 1833; *A. dilatata* SOWERBY, 1873)

Chitose-no-hana-gai

- Type locality: 'ad insulas Nicobaricas' (Nicobar islands, Indian Ocean).
- Distribution: Tosa bay and southwards, P5, EC5, ECP4-ECP2, Okinawa (HABE, 1980-b), P2; Philippines, South China Sea, Indo-Pacific.
- Habitat: intertidal to 50 m., sand and mud.
- Original genus: *Mya*.

Family **CARDILIIDAE FISCHER, 1887**

(Refs: Habe, 1951-f)

□ Genus *Cardilia* DESHAYES in LAMARCK, 1835-45

Type species: *Isocardia semisulcata* LAMARCK, 1819 (s. d. HERRMANNSEN, 1846) (= *Leptina* PICTET, 1855 *non* MEIGEN, 1830)

B888 *C. semisulcata* (LAMARCK, 1819 in 1815-22)

Kisa-gai (= Zō-gai)

- Type locality: 'les mers de la Nouvelle Hollande, à l'île S.-Pierre-S.-François' (St. Francis islands, off Ceduna, South Australia).
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Seto inland sea, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2; Philippines, South China Sea, southeast Asia, northern Australia.
- Habitat: 5-100 m., sand and mud.
- Original genus: *Isocardia*.

**Notes:** *Cardilia gemmulata* GOULD, 1861 *nom. oblit.* is thought to have been based on a juvenile of this species.

Superfamily **SOLENOIDEA LAMARCK, 1809**

Family **PHARIDAE H. & A. ADAMS, 1858 in 1853-58**

(= **CULTELLIDAE** DAVIES, 1935; **PHARELLIDAE** HIGO & GOTŌ, 1993 *nom. nud.*)

□ Genus *Pharella* GRAY, 1854

Type species: *Solen javanicus* LAMARCK, 1818 (s. d. KOBELT, 1881)

B889 *P. javanica* (LAMARCK, 1818 in 1815-22)

Nata-mame-gai

- Type locality: 'l'île de Java' (Indonesia).
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, South China Sea, Indonesia, southeast Asia, Indian Ocean.
- Habitat: intertidal to 25 m., sand and mud.
- Original genus: *Solen*.

B890 *P. olivacea* (METCALFE, 1852)

Uzukino-ashita

- Type locality: Borneo.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, southeast Asia.
- Habitat: intertidal, mud.
- Original genus: *Novaculina*.

□ Genus *Siliqua* MÜHLFELD, 1811

Type species: *Solen radiatus* LINNAEUS, 1758 (mt.) (= *Aulus* OKEN, 1815 (Invalid: ICZN op. 417); *Leguminaria* SCHUMACHER, 1817; *Solecurtoides* DES MOULINS, 1832; *Machaera* GOULD, 1841 *non* CUVIER, 1832)

B891 *S. alta* (BRODERIP & SOWERBY, 1829)

(= *Solen costata* *auct. non* SAY, 1822; *Cultellus costatus* SOWERBY, 1874; *Siliqua intuspurpurea* PILSBRY, 1905) Ō-mizo-gai

- Type locality: Arctic Ocean.
- Distribution: northeastern Honshū (Fukushima prefecture) and northwards, P8-P10, Hokkaidō, OP, Kuril islands, Okhotsk Sea; Alaska, Atlantic seaboard of America (eastern Canada to North Carolina).

- Habitat: subtidal to 20 m., sand.
- Original genus: *Aulus*.

**B892 *S. pulchella* (DUNKER, 1852 in 1852-53)**

Mizo-gai

- Type locality: '*Japonia*' (Japan).
- Distribution: northeastern Honshū (Fukushima prefecture) and southwards, P8-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea, Yellow Sea, Bo-hai, Taiwan.
- Habitat: subtidal to 50 m., sand.
- Original genus: *Aulus*.

**B893 *S. japonica* (DUNKER, 1861-a)**

Shibori-mizo-gai

- Type locality: Dejima, Nagasaki City, western Kyūshū.
- Distribution: Sagami bay and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, East China Sea.
- Habitat: subtidal to 30 m., sand.
- Original genus: *Aulus*.

**B894 *S. fasciata* (SPENGLER, 1794)**

Mame-mizo-gai

- Type locality: 'Tunis' (erroneous).
- Distribution: P2; Taiwan and southwards, Philippines, South China Sea, China (Guangdong).
- Habitat: intertidal to 40 m., mud.
- Original genus: *Solen*.

**B895 *S. minima* (GMELIN, 1791)**

Momo-iro-mizo-gai

- Type locality: '*in sinu tranquebarico*' (Tranquebar coast, southern India).
- Distribution: 'Pacific coast, 0-33° N.' (KURODA & HABE, 1952-a); Kyūshū, East China Sea; Yellow Sea, Bo-hai, Korea.
- Habitat: intertidal to 30m, sand and mud.
- Original genus: *Solen*.

**B896 *S. albida* (ADAMS & REEVE, 1850 in 1848-50)**

(= *Cultellus hanleyi* DUNKER, 1861; *C. attenuatus auct. non* DUNKER, 1861; *C. scalpellum* SOWERBY II, 1874)  
Yuki-no-ashita (= Moegi-gai)

- Type locality: 'Corean Archipelago' (Korea).
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, EC5, ECP4-ECP2, P2, East China Sea; Yellow Sea, Philippines, South China Sea, China, southeast Asia.
- Habitat: 10-100 m., sandy mud.
- Original genus: *Solen*.

□ Genus *Ensiculus* **H. ADAMS, 1860-b**

Type species: *Solen cultellus* LINNAEUS, 1758 (o. d.)

**B897 *E. cultellus* (LINNAEUS, 1758)**

(= *Cultellus australis* DUNKER, 1861; *C. lividus* DUNKER, 1861; *C. marmoratus* DUNKER, 1861, *C. philippianus* DUNKER, 1877; *C. (Ensiculus) maculatus*

PRESTON, 1906; *Ensiculus hiliaris* IREDALE, 1936)

Taka-no-ha (= Naginata-gai)

- Type locality: '*in Amboinae littoribus arenosis*' (Ambon island, Indonesia; sand beaches).
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Seto inland sea, Japan Sea (Noto peninsula, J2-J1), EC5, P2; Korea, Philippines, Beibu gulf, South China Sea, Australia, Indian Ocean, Red Sea, Indo-Pacific.
- Habitat: intertidal to 30 m., in sand and mud.
- Original genus: *Solen*.

□ Genus *Sinonovacula* **PRASHAD, 1924**

Type species: *Solen constrictus* LAMARCK, 1818 (o. d.)

**B898 *S. constricta* (LAMARCK, 1818 in 1815-22)**

Agemaki

- Type locality: 'les mers de la Chine ou du Japon' (seas of China or Japan).
- Distribution: Seto inland sea, western Kyūshū (Ariake inland sea), East China Sea; coastal China, South China Sea, Hong Kong, Yellow Sea, Bo-hai.
- Habitat: intertidal in estuaries, mud and sand.
- Original genus: *Solen*.

Family **SOLENIIDAE LAMARCK, 1809**

(Refs.: Habe, 1964-d; 1965-c)

□ Genus *Solen* **LINNAEUS, 1758**

Type species: *Solen vagina* LINNAEUS, 1758 (s. d.)  
SCHUMACHER, 1817)

(= *Salen*, *Solenaria*, *Solenarius*, *Solenis*, *Solex auct.*; *Vagina* MÜHLFELD, 1811; *Listeria* LEACH in GRAY, 1852 *non* TURTON, 1822; *Fistula* MARTINI in MÖRCH, 1853)

Subgenus *Solen s. str.*

**B899 *S. strictus* GOULD, 1861 in 1859-61**

(= *S. corneus auct. non* LAMARCK, 1818 in 1815-22; *S. gracilis* GOULD, 1861 *non* J. de C. SOWERBY II, 1844, *nec* PHILIPPI, 1847; *S. incertus* CLESSIN, 1888; *S. corneus pechiliensis* GRABAU & KING, 1928)

Mate-gai

- Type locality: 'Hakokadi Bay' (Hakodate, Hokkaidō).
- Distribution: southern Hokkaidō and southwards, Tsugaru peninsula, P10-P5, Seto inland sea, Japan Sea (J4-J1), EC5, East China Sea; Korea, Yellow Sea, Bo-hai, China.
- Habitat: intertidal, sand, in bays.

**Notes:** incorrectly cited as *S. corneus* LAMARCK in almost all Japanese literature (COSEL, pers. comm.)

**B900 *S. (S.) gordonis* YOKOYAMA, 1920**

Aka-mate

- Type locality: Shimo-miyata, Miura City, eastern Sagami bay (fossil).
- Distribution: Bōsō peninsula (KURODA & HABE, 1981)

and southwards, P7-P5, Japan Sea (southern Niigata prefecture, J3-J1), EC5, East China Sea; Korea, northern Japan Sea, South China Sea, Taiwan.

- Habitat: 5-20 m., sandy mud.

**B901 *S. (S.) kurodai* HABE, 1964-d**

(= *S. intermedia* KIRA, 1962 non KOCH in PHILIPPI, 1843)

Dandara-mate

- Type locality: Tanabe bay, Kii peninsula, central Honshū (Wakayama prefecture).
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea; Taiwan, Australia.
- Habitat: intertidal to 20 m., fine sand.

**B902 *S. (S.) sloanii* GRAY in HANLEY, 1842 in 1842-43**

(= *S. versicolor* PHILIPPI, 1847)

Ryūkyū-mate

- Type locality: Philippines.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, East China Sea, ECP4-ECP2, P2; Philippines, South China Sea, Hainan, Australia, Indo-Pacific.
- Habitat: intertidal to 115 m., fine sand.

**B903 *S. (S.) grandis* DUNKER, 1861-a**

(= *S. beckii* GRABAU & KING, 1928 non PHILIPPI, 1847)

Ō-mate

- Type locality: Dejima, Nagasaki City, western Kyūshū.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea, P2; Korea, Yellow Sea, Bo-hai, China, Hainan, South China Sea.
- Habitat: intertidal to 75 m., sand.

**Notes:** Somewake-mate was cited as '*S. lamarckii* SOWERBY, 1874' (HABE & KOSUGE, 1966); this was probably intended to be *S. (S.) lamarckii* DESHAYES, 1839 in 1839-53. This is a species in *Solecurtus*; the species figured by Habe & Kosuge is possibly *Solen vagina* LINNAEUS (COSEL, pers. comm.) The status of the shell known as Somewake-mate is thus uncertain.

**B904 *S. (S.) roseomaculatus* PILSBRY, 1901-b**

Barafu-mate

- Type locality: 'Hirado, Hizen' (Hirado island, Nagasaki prefecture).
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, East China Sea; South China Sea, Taiwan, Beibu gulf, Indo-Pacific from east Africa to Australia.
- Habitat: subtidal to 100 m., sand and mud.

**B905 *S. (S.) dunkerianus* CLESSIN, 1888 in 1842-89**

Chigo-mate

- Type locality: 'wahrscheinlich die Südsee' (probably the Southern Ocean).
- Distribution: Kyūshū (Ariake inland sea HABE, 1983; northern Yatsushiro inland sea, intertidal to 20 m.), East China Sea; Yellow Sea, South China Sea, China, Bo-hai (BERNARD *et al.*, 1993).

**Notes:**

(1) Suji-mate is a shell often cited as *S. (S.) linearis* SPENGLER, 1794 (KURODA & HABE, 1952-a; BERNARD *et al.*, 1993). It is apparently an unnamed species (COSEL, pers. comm.)

(2) Hina-mate is a shell often cited as *Ensis luzonicus* DUNKER, 1861-a. *E. luzonicus* was based on a misidentified juvenile specimen of the Chilean *Ensis macha* MOLINA, and Hina-mate is an un-named species (COSEL, pers. comm.)

Subgenus ***Ensisolen* HABE, 1977-a**

Type species: *Solen krusensternii* SCHRENCK, 1867 (o. d.)

**B906 *S. (E.) krusensterni* SCHRENCK, 1867**

(= *S. bausensterni sensu* HABE, 1964 *err. pro* *kruzen-*)

Ezo-mate

- Type locality: Hakodate, Hokkaidō.
- Distribution: Seto inland sea, northeastern Honshū (Ōtsuchi bay TSUCHIDA & KUROZUMI, 1995-a) and northwards, Hokkaidō, P10, northern Kyūshū and northwards, Japan Sea (J1-J5); Korea, Primoriye region (Japan Sea coast of Russia), Sakhalin.
- Habitat: 5-30 m., sand.

**B907 *S. (E.) sicarius* GOULD, 1850 in 1846-50**

Zunguri-ezo-mate

- Type locality: straits of Juan de Fuca, Washington state, northwestern USA.
- Distribution: 'Hakodate?' (KURODA & HABE, 1952-a), 'Japan Sea side, ?N' (HABE, 1977-a); Canada to California.
- Habitat: intertidal to 50 m., sand.

Superfamily **TELLINOIDEA WILKES, 1810**

Family **TELLINIDAE WILKES, 1810**

Subfamily **TELLININAE WILKES, 1810**

□ Genus ***Tellina* LINNAEUS, 1758**

Type species: *Tellina radiata* LINNAEUS, 1758 (s. d. CHILDREN, 1823)

(= *Tellinarius* FRORIEP in DUMÉRIL, 1806; *Liotellina* FISCHER, 1887)

**B908 *T. saccularia* GOULD, 1861 in 1859-61**

- Type locality: 'Loo Choo' (Okinawa).
- Distribution: 'Pacific coast at 26° N.' (KURODA & HABE, 1952-a).

**Notes:** originally in subgenus *Arcopagia*.

B909 *T. emarginata* (SOWERBY I, 1825)

Hidatori-zakura

- Type locality: 'From Brazil' (erroneous).
- Distribution: Okinawa to South China Sea; Thailand, Malaysia, Indonesia, Indo-Pacific (BERNARD *et al.*, 1993).
- Habitat: 30-60 m., in shell fragments.
- Original genus: *Tellinides*.

□ Genus *Laciolina* IREDALE, 1937-a

Type species: *Tellina quoyi* SOWERBY II in REEVE, 1868 (o. d.; = *Tellina chloroleuca* LAMARCK, 1818) (= *Scrobiculina* DALL, 1900 non MONTEROSATO, 1889)

B910 *L. chloroleuca* (LAMARCK, 1818 in 1815-22)

(= *Tellina quoyi* SOWERBY, 1868; *T. wroblewskyi* BOCK, 1878)

Ryūkyū-sara-gai

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, South China Sea, Hainan, Australia.
- Habitat: subtidal to 40 m., sand and mud.
- Original genus: *Tellina*.

□ Genus *Tellinella* MÖRCH, 1853

Type species: *Tellina virgata* LINNAEUS, 1758 (s. d. STOLICZKA, 1870 in 1870-71) (= *Capsa* LAMARCK, 1799 non BRUGUIÈRE, 1797 in 1791-1797; *Eutellina* FISCHER, 1887; *Maoritellina* FINLAY, 1926)

B911 *Tellinella virgata* (LINNAEUS, 1758)

(= *Tellina subrubicunda* MARTYN, 1784 (invalid: ICZN op. 456); *Tellina marginalis* LIGHTFOOT, 1786; *Tellina lata* QUOY & GAIMARD, 1835; *Tellina jubar* HANLEY, 1844)

Nikkō-gai

- Type locality: 'in *O. Indico*' (Indian Ocean).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Hainan, South China Sea, Moluccas, Persian Gulf, Indo-Pacific.
- Habitat: subtidal to 30 m., sandy mud.
- Original genus: *Tellina*.

B912 *Tellinella radians* (DESHAYES, 1855-c)

(= *Tellina gibba* BERTIN, 1878; *Tellina parva* BERTIN, 1878)

Ko-nikkō-gai

- Type locality: none designated.
- Distribution: Mie prefecture, Kii peninsula and southwards, P6-P5, southern Kyūshū, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Australia.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Tellina*.

B913 *Tellinella staurella* (LAMARCK, 1818 in 1815-22)

(= *Tellina scalaris* LAMARCK, 1818 in 1815-22; *Tellina exculta hawaiiensis* PILSBRY, 1918; *Tellina tithonia* GOULD, 1850)

Hime-nikkō-gai

- Type locality: 'les mers de la Nouvelle-Hollande' (Australian seas).
- Distribution: Sagami bay and southwards, P7-P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, Red Sea, Australia, Indo-Pacific.
- Habitat: intertidal to 30 m., sand.
- Original genus: *Tellina*.

B914 *Tellinella incerta* (DESHAYES, 1855-c)

Maru-hime-nikkō-gai (= Inu-jita-zara)

- Type locality: 'Philippines'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2, East China Sea; Philippines, South China Sea.
- Habitat: intertidal to 25 m., sand.
- Original genus: *Tellina*.

B915 *Tellinella crucigera* (LAMARCK, 1818 in 1815-22)

(= *Tellina tithonia* GOULD, 1851; *Tellinella philippi sensu* KIRA, 1959 non *Tellina philippi* ANTON *sensu* PHILIPPI, 1844)

Hinode-gai

- Type locality: none designated.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Red Sea, tropical Indo-Pacific.
- Habitat: subtidal to 20 m., sand.
- Original genus: *Tellina*.

B916 *Tellinella asperrima* (HANLEY, 1844-c)

(= *Tellina squamulosa* A. ADAMS, 1850-g)

Uroko-hinode-gai

- Type locality: 'Sual, province of Pangasinan, isle of Luzon (sandy mud, six fathoms)' (Philippines).
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, South China Sea, Australia, tropical Pacific.
- Habitat: subtidal to 20 m., sand.
- Original genus: *Tellina*.

B917 *Tellinella verrucosa* (HANLEY, 1844-c)

Ko-daimyō-gai

- Type locality: 'Corregidor, bay of Manila' (Philippines).
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, South China Sea.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Tellina*.

B918 *Tellinella pulcherrima* (SOWERBY I, 1825)

Samehada-hinode-gai

- Type locality: none designated.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, South China Sea, Australia, tropical Pacific.
- Habitat: subtidal to 30 m., sand.
- Original genus: *Tellina*.

B919 *Tellinella rastella* (HANLEY, 1844-c)  
(= *Tellina philippi* ANTON *sensu* PHILIPPI, 1844)

Ō-samehada-hinode-gai

- Type locality: 'Zanzibar' (east Africa).
- Distribution: P2; Taiwan and southwards, South China Sea, Philippines, Thailand, Red Sea, Australia, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Tellina*.

B920 *Tellinella spengleri* (GMELIN, 1791)  
(= *Tellina deshayesii* HANLEY, 1844)

Nokogiri-daimyō

- Type locality: '*ad insulas Nicobaricas*' (Nicobar islands, Indian Ocean).
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, South China Sea, Vietnam, Thailand, Indonesia, western Pacific.
- Habitat: subtidal to 20 m., sand.
- Original genus: *Tellina*.

B921 *Tellinella patagiata* (PRASHAD, 1932)

Hina-zakura

- Type locality: 'Siboga' sta. 260, off Kei islands, Arafura Sea: 05° 36.5' S., 132° 55.2' E., 90 m.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, Okinawa islands, ECP2, P2, East China Sea; Philippines, South China Sea, Indonesia.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Tellina*.

□ Genus *Pharaonella* LAMY, 1918-b

Type species: *Tellina pharaonis* HANLEY, 1844 (s. d. SALISBURY, 1934)

B922 *P. rostrata* (LINNAEUS, 1758)

(= *Tellina aurea* PERRY, 1811; *T. vulsella* HANLEY, 1846)

Tongari-beni-gai

- Type locality: '*in O. Europaëo & Indico*' (European and Indian Oceans).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, South China Sea, Hainan, Beibu gulf, Australia, western Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Tellina*.

B923 *P. perna* (SPENGLER, 1798)

(= *Tellina pharaonis* HANLEY, 1844)

Iro-ase-beni-gai

- Type locality: 'Ostindien' (East Indies).
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hainan, Malaysia, Indonesia, Red Sea, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., fine sand.
- Original genus: *Tellina*.

B924 *P. sieboldii* (DESHAYES, 1855-c)

(= *Tellina perrieri* BARTIN, 1878; *T. consanguinea* SOWERBY, 1903)

Beni-gai

- Type locality: 'Japan'.
- Distribution: northern Honshū (Tsugaru peninsula) and southwards, P9-P5, Japan Sea (Shimokita peninsula and southwards, J4-J1), EC5, ECP4.
- Habitat: intertidal to 20 m., fine sand.
- Original genus: *Tellina*.

B925 *P. tongana* (QUOY & GAIMARD, 1835 in 1832-35)

Ōshima-daimyō-gai

- Type locality: 'habite l'île de Tonga-Tabou' (Tongatapu island, Tonga).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2, East China Sea; Philippines, South China Sea, tropical Pacific.
- Habitat: intertidal to 20 m., fine sand.
- Original genus: *Tellina*.

□ Genus *Tellinides* LAMARCK, 1818 in 1815-22

Type species: *Tellinides timorensis* LAMARCK, 1818 (mt.)

B926 *T. timorensis* LAMARCK, 1818 in 1815-22

Herasagi-gai

- Type locality: 'l'Océan des Grandes Indes ou Australes, près de Timor' (Timor Sea, Indonesia).
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, South China Sea, Hainan, western Pacific.
- Habitat: 5-20 m., sand.

B927 *T. ovalis* SOWERBY I, 1825

(= *Tellina gratiosa* RÖMER, 1871; *Angulus hawaiiensis* DALL, BARTSCH & REHDER, 1938)

Hira-zakura

- Type locality: none designated.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hainan, Indonesia, Indo-Pacific.
- Habitat: subtidal to 50 m., sand and mud.

□ Genus *Angulus* MÜHLFELD, 1811

Type species: *Tellina lanceolatus* GMELIN, 1791 (s. d.)

GRAY, 1847)

( = *Oudardia* MONTEROSATO, 1884; *Angelus* (*sic*) *sensu* ALDRICH, 1911; *Moerella* FISCHER in GARDNER, 1928 *non* FISCHER, 1887; *Anbulus* MÜHLFELD *sensu* MCLEAN, 1951)

**B928 *A. lanceolata* (GMELIN, 1791)**

( = *Psammotaea pellucida* LAMARCK, 1818 in 1815-22) Taiwan-zakura

- Type locality: 'in India'.
- Distribution: P2; Taiwan and southwards, Philippines, China (Guangdong), South China Sea, Indonesia.
- Habitat: intertidal to 50 m., sand and mud.
- Original genus: *Tellina*.

**B929 *A. vestalioides* (YOKOYAMA, 1920)**

( = *Tellina vestialis* RÖMER, 1871 *non* HANLEY, 1844) Kumori-zakura

- Type locality: Naganuma, Totsuka-ku, Yokohama City (fossil).
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Yellow Sea, China (Shandong; Hong Kong), southeast Asia.
- Habitat: 10-300 m., sandy mud.
- Original genus: *Tellina*.

□ Genus ***Megangulus* AFSHAR, 1969**

Type species: *Tellina venulosa* SCHRENCK, 1862 (o. d.) (Refs.: Matsukuma *et al.*, 1988)

**B930 *M. venulosus* (SCHRENCK, 1862 in 1862-63)**

( = *Tellina alternata chibana* YOKOYAMA, 1922; *T. jedoensis* LISCHKE *sensu* YOKOYAMA, 1922) Sara-gai

- Type locality: northern Japan.
- Distribution: Kashima-nada (off Ibaraki prefecture) and northwards, (Ōtsuchi bay TSUCHIDA & KUROZUMI, 1995-a), P8-P10, OP, Japan Sea (Wakasa bay, J2-J5), Okhotsk Sea; Korea, Primoriye region (Japan Sea coast of Russia ARZAMASTSEV, 1997)
- Habitat: intertidal to 120 m., sand.
- Original genus: *Tellina*.

**B931 *M. zyonoensis* (HATAI & NISHIYAMA, 1938)**

Arasuji-sara-gai

- Type locality: 'borderland of the Japan Sea'.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and northwards, P8-P10, OP, Japan Sea (Niigata prefecture, J3-J5); eastern Korea, Primoriye region (Japan Sea coast of Russia).
- Habitat: 10-60 m., fine sand.
- Original genus: *Tellina*.

**B932 *M. luteus* (WOOD, 1828 in 1818-28)**

( = *Tellina alternidentata* BRODERIP & SOWERBY,

1829; *T. guildfordiae* GRIFFITH & PIDGEON, 1834)

Beni-sara-gai

- Type locality: none designated.
- Distribution: 'northern Japan' (MACGINITIE, 1959), Hokkaidō and northwards, P10, OP, Kuril islands, Okhotsk Sea; Bering Sea, Alaska.
- Habitat: 10-50 m., fine sand.
- Original genus: *Tellina*.

□ Genus ***Omala* SCHUMACHER, 1817**

Type species: *Omala inaequivalvis* SCHUMACHER, 1817 (mt.; = *Tellina hyalina* GMELIN, 1791)

**B933 *O. hyalina* (GMELIN, 1791)**

( = *Tellina opalina* SOWERBY II, 1868 in 1865-78) Kusabi-zakura

- Type locality: 'ad Guineae littora, B) in India' (shores of New Guinea; var. 'B' from India).
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, Japan Sea (Wakasa bay, J2-J1), EC5, ECP4-ECP2, P2, East China Sea; Philippines, tropical Pacific.
- Habitat: intertidal to 130 m., sand.
- Original genus: *Tellina*.

□ Genus ***Hemimetis* THIELE, 1934**

Type species: *Tellina plicata* VALENCIENNES, 1846 (mt.)

**B934 *H. plicatus* (VALENCIENNES, 1846)**

Chirimen-jūrōjin

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, China.
- Habitat: subtidal to 20 m., sand.
- Original genus: *Tellina*.

□ Genus ***Phylloda* SCHUMACHER, 1817**

Type species: *Phylloda aurea* SCHUMACHER, 1817 (mt.; = *Tellina foliacea* LINNAEUS, 1758)

**B935 *P. foliacea* (LINNAEUS, 1758)**

( = *Tellina cinnamea* MARTYN, 1792 (invalid ICZN op. 456); *Phylloda aurea* SCHUMACHER, 1817) Konoha-zakura

- Type locality: 'in *O. Indico*' (Indian Ocean).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2, East China Sea; Philippines, South China Sea, Australia, Indo-Pacific.
- Habitat: 5-20 m., fine sand.
- Original genus: *Tellina*.

□ Genus ***Arcopella* THIELE, 1934**

Type species: *Tellina balaustina* LINNAEUS, 1758 (mt.)

**B936 *A. isseli* (H. ADAMS, 1871-a)**

Hatsuhi-zakura

- Type locality: Red Sea.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Wakasa bay, J2-J1), EC5, East China Sea, P2; Philippines, South China Sea, Thailand, Red Sea, Persian Gulf, western Pacific.
- Habitat: 5-100 m., fine sand.
- Original genus: *Tellina* (*Arcopagia*).

□ Genus ***Clathrotellina* THIELE, 1934**

Type species: *Tellina pretiosa* DESHAYES, 1855 non EICHWALD, 1830 (mt.; = *Tellina pretium* SALISBURY, 1934)

B937 ***C. pretium* (SALISBURY, 1934)**

(= *Tellina pretiosa* DESHAYES, 1854 non EICHWALD, 1830; *T. costata* SOWERBY II, 1867 non THUNBERG, 1815)

Amime-zakura

- Type locality: 'Philippines; Sumatra'.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, EC5, ECP4-ECP2, East China Sea; China, Australia.
- Habitat: 10-50 m., sand.
- Original genus: *Tellina*.

B938 ***C. carnicolor* (HANLEY, 1846-b)**

(= *Tellina incarnata* HANLEY, 1844-d non CIMEX, 1773; *Tellina strangei* DESHAYES, 1854; *T. corbis* SOWERBY II, 1867 non BRONN, 1831; *T. hirasei* PILSBRY, 1904)

Hirase-zakura

- Type locality: 'San Nicolas, Zebu' (Cebu, Philippines).
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, western Pacific, Australia to Red Sea.
- Habitat: intertidal to 20 m., coarse sand.
- Original genus: *Tellina*.

□ Genus ***Aenigmatellina* MATSUKUMA, 1989-b**

Type species: *Kermadysmea nishimurai* HABE, 1976 (o. d.)

B939 ***A. nishimurai* (HABE, 1976-a)**

Sudare-zakura (= Sudare-masuhō)

- Type locality: Onbase, off Kozushima, Izu islands.
- Distribution: Izu islands, Kii peninsula (KURODA & HABE, 1981).
- Habitat: 50 m., sand.
- Original genus: *Kermadysmea*.

Subfamily **ARCOPAGIINAE KURODA & HABE, 1981**

□ Genus ***Merisca* DALL, 1900-b**

(= *Lyratellina* OLSSON, 1961)

Subgenus ***Pistris* THIELE, 1934 in 1929-35**

Type species: *Tellina pristis* LAMARCK, 1818 (mt.; =

*Tellina capsoides* LAMARCK, 1818)

(= *Pristis* JOUSSEAUME in LAMY, 1918 non LATHAM, 1794 nec MÜLLER & HENLE, 1837; *Pristipagia* IREDALE, 1936)

B940 ***M. (P.) capsoides* (LAMARCK, 1818 in 1815-22)**

(= *Tellina pristis* LAMARCK, 1818 in 1815-22; *T. diaphana* DESHAYES, 1855; *T. siamensis* MARTENS, 1860; *T. pristiformis* PILSBRY, 1901)

Ichō-shiratori (= Nunome-ichō-shiratori)

- Type locality: 'à l'île Saint-Pierre-Saint-François' (St. Francis islands, off Ceduna, South Australia).
- Distribution: Mutsu bay (Aomori prefecture) and southwards, P9-P5, Seto inland sea, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5, ECP4-ECP2 (Ryūkyū islands YAMASHITA *et al.*, 1997), P2; Korea, China, Philippines, Hainan, South China Sea, Red Sea, Australia, Melanesia, Indo-Pacific.
- Habitat: intertidal, sandy mud.
- Original genus: *Tellina*.

**Note:** see YAMASHITA *et al.* (1997: Yuriyagai, vol. 5 (1-2): 101-115)..

B941 ***M. (P.) perplexa* (HANLEY, 1844-e)**

(= *M. monomera* HABE, 1961)

Une-ichō-shiratori

- Type locality: 'Bay of Manila; sandy mud, six fathoms' (Philippines).
- Distribution: western Kyūshū and southwards, ECP4-ECP2, P2; Philippines, Hainan, South China Sea, Indonesia.
- Habitat: 5-30 m., sand and mud.
- Original genus: *Tellina*.

B942 ***M. (P.) tokunagai* (IKEBE, 1936)**

Tokunaga-shiratori

- Type locality: Kami-miyata, Miura City, eastern Sagami bay (fossil).
- Distribution: Kashima-nada (KURODA & HABE, 1981) and southwards, P8-P5, Japan Sea (Wakasa bay, J2-J1), EC5.
- Habitat: 100-400 m., fine sand and mud.
- Original genus: *Arcopagia* (*Merisca*).

B943 ***M. (P.) margaritina* (LAMARCK, 1818 in 1815-22)**

(= *Tellina sericostata* TOKUNAGA, 1905)

Akoya-zakura (= Akoya-zara)

- Type locality: 'la Nouvelle Hollande, au port du Roi Georges' (King George sound, Western Australia).
- Distribution: Mutsu bay (Aomori prefecture) and southwards, P9-P5, Japan Sea (Niigata prefecture, J3-J1), EC5, East China Sea, P2; Philippines, China (Fujian), southeast Asia, northern Australia, Indo-Pacific.
- Habitat: 20-400 m., sandy mud.



- Original genus: *Tellina*.

B944 *M. (P.) subtruncata* (HANLEY, 1844-e)

(= *Tellina ojiensis* TOKUNAGA, 1906)

Yūhi-zakura

- Type locality: 'Isle of Bohol; on the reefs, low water' (Philippines).
- Distribution: Mutsu bay (Aomori prefecture) and southwards, P9-P5, Japan Sea (Tsugaru peninsula, J4-J1), EC5, East China Sea, P2; Philippines, western Pacific.
- Habitat: 10-300 m., sandy mud.
- Original genus: *Tellina*.

□ Genus *Quidnipagus* IREDALE, 1929-a

Type species: *Quidnipagus palatam* IREDALE, 1929 (= *Tellina rugosa* BORN, 1778 non PENNANT, 1777)

B945 *Q. palatam* IREDALE, 1929-a

(= *Tellina rugosa* BORN, 1778 non PENNANT, 1777; *T. rugosa obtusa* LAMY, 1918 non SOWERBY, 1868)

Ryūkyū-shiratori

- Type locality: none designated.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hainan, Red Sea, Australia, Indo-Pacific.
- Habitat: intertidal to 20 m., sand.

□ Genus *Scutarcopagia* PILSBRY, 1918

Type species: *Tellina scobinata* LINNAEUS, 1758 (o. d.)

B946 *S. scobinata* (LINNAEUS, 1758)

(= *Tellina cratitia* GOULD, 1861; *T. elizabethae* PILSBRY, 1918)

Same-zara (= Hime-same-zara)

- Type locality: 'in *O. Asiatico*' (Asian seas).
- Distribution: southern Kyūshū and southwards, ECP4-ECP2, P2; Philippines, Hainan, South China Sea, southeast Asia, Micronesia, Red Sea, Australia.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Tellina*.

B947 *S. linguafelis* (LINNAEUS, 1758)

Neko-jita-zara

- Type locality: 'in *O. Asiatico*' (Asian seas).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2, East China Sea; Philippines, Australia, western Pacific.
- Habitat: intertidal to 30 m., sand.
- Original genus: *Tellina*.

□ Genus *Cyclotellina* COSSMANN, 1886

Type species: *Donax lunulata* LAMARCK, 1805 (o. d.) (Refs: Matsukuma, 1990)

B948 *C. discus* (HANLEY, 1844-c)

Tsuki-zara

- Type locality: 'Isle of Mindanao; on reefs, in coarse sand' (Philippines).

- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, South China Sea, Indonesia, Indo-Pacific.

- Habitat: intertidal to 20 m., sand.

- Original genus: *Tellina*.

B949 *C. remies* (LINNAEUS, 1758)

(= *Tellina sulcata* LAMARCK, 1818 in 1815-22)

Mochi-zuki-zara

- Type locality: 'in *O. Europaeo & Indico*' (European and Indian Oceans).

- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Hainan, South China Sea, Indo-Pacific.

- Habitat: intertidal to 20 m., sand.

- Original genus: *Tellina*.

□ Genus *Arcopaginula* LAMY, 1918-b

Type species: *Tellina inflata* GMELIN, 1791 (mt.)

B950 *A. inflata* (GMELIN, 1791)

(= *Tellina hippoidea* JONAS in PHILIPPI, 1843; *T. striatula auct. non* LAMARCK, 1818 in 1815-22; *T. simplex* H. ADAMS, 1870; *T. ovata* RÖDING, 1798)

Goishi-zara

- Type locality: none designated.

- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Hainan, South China Sea, Malaysia, Thailand, Indonesia, Red Sea, Indo-Pacific.

- Habitat: subtidal to 20 m., sandy mud.

- Original genus: *Tellina*.

□ Genus *Cadella* DALL, BARTSCH & REHDER, 1938

Type species: *Tellina lechriogramma* MELVILL, 1893 (o. d.)

B951 *C. mauia* DALL, BARTSCH & REHDER, 1938

(= *Arcopagia hosiyamai* KURODA, 1960)

Hoshiyama-namino-zara

- Type locality: Maui, Hawaii.

- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Hawaii.

- Habitat: subtidal to 100 m., sand.

B952 *C. narutoensis* HABE, 1960-a

Maru-kusabi-zara (= Maru-kusabi-zakura)

- Type locality: Naruto strait, between Shikoku and Awaji island (eastern Seto inland sea).

- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4; Yellow Sea, China (Shandong), Australia (Queensland LAMPRELL & HEALY, 1998).

- Habitat: subtidal to 100 m., sand.

**B953 *C. delta* (YOKOYAMA, 1922)**

Kusabi-zara

- Type locality: Ōtake, Narita City, Chiba prefecture, central Honshū (fossil).
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), East China Sea; Taiwan.
- Habitat: 5-160 m., sand.
- Original genus: *Tellina*.

**B954 *C. semen* (HANLEY, 1845-a)**

(= *Tellina semitorta* SOWERBY II, 1867; *Cadella oahuana* DALL, BARTSCH & REHDER, 1938)

Naminoko-zara

- Type locality: 'Corregidor; sandy mud, twelve fathoms' (Philippines).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Hainan, South China Sea, Thailand, Malaysia, tropical Pacific.
- Habitat: 10-50 m., sand.
- Original genus: *Tellina*.

**B955 *C. lubrica* (GOULD, 1861 in 1859-61)**

(= *Tellina kesenensis* NOMURA & HATAI, 1935)

Toba-zakura

- Type locality: 'Hakodadi Bay (Hakodate, Hokkaidō), in sandy mud, 6 fathoms'.
- Distribution: Kashima-nada and southwards, Ōtsuchi bay (Iwate prefecture TSUCHIDA & KUROZUMI, 1995-a), P8-P10, Japan Sea (Wakasa bay, J2-J4), Hokkaidō, OP, Kuril islands, Okhotsk Sea; Yellow Sea.
- Habitat: subtidal to 130 m., sand.
- Original genus: *Tellina*.

□ Genus ***Quadrans* BERTIN, 1878**

Type species: *Tellina gargadia* LINNAEUS, 1758 (s. d. DALL, 1900)

**B956 *Q. gargadia* (LINNAEUS, 1758)**

(= *Tellina inaequalis* HANLEY, 1844)

Ō-toge-une-gai

- Type locality: 'in *O. Asiatico*' (Asian seas).
- Distribution: Amami islands, ECP3-ECP2, P2, East China Sea; Philippines, South China Sea, Australia, central and western Pacific.
- Habitat: 10-50 m., sand.
- Original genus: *Tellina*.

**B957 *Q. spinosa* (HANLEY, 1844-e)**

Toge-une-gai

- Type locality: 'Isle of Ticao, six fathoms' (Philippines).
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (Sado island, J3-J1), EC5, ECP4-ECP2, P2; Philippines, tropical Pacific.

- Habitat: intertidal to 100 m., sand.

- Original genus: *Tellina*.

□ Genus ***Pinguitellina* IREDALE, 1927**

Type species: *Tellina robusta* HANLEY, 1844 (o. d.)

**B958 *P. robusta* (HANLEY, 1844-c)**

Uraki-hime-zara

- Type locality: 'Isle of Annaa, South Seas, and isle of Burias, Philippines; sandy mud, low water'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, South China Sea.
- Habitat: subtidal to 30 m., sand.
- Original genus: *Tellina*.

**B959 *P. pinguis* (HANLEY, 1844-c)**

(= *P. nucella* DALL, BARTSCH & REHDER, 1938)

Migaki-hime-zara

- Type locality: 'St. Nicolas, Zebu' (Cebu, Philippines).
- Distribution: Kii peninsula and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines, Hainan, South China Sea, southeast Asia, tropical Pacific.
- Habitat: intertidal to 30 m., sand.
- Original genus: *Tellina*.

**B960 *P. nux* (HANLEY, 1844-c)**

Satsuma-hime-zara (= Satsuma-zakura)

- Type locality: 'St. Nicolas, Zebu; sandy mud, four fathoms' (Cebu, Philippines).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2; Philippines, tropical Indo-Pacific.
- Habitat: intertidal to 20 m., fine sand.
- Original genus: *Tellina*.

□ Genus ***Punipagia* IREDALE, 1930-b**

Type species: *Tellina subelliptica* SOWERBY II, 1868 *non* MEEK & HAYDEN, 1857 (o. d.; = *Tellina radiatolineata* YOKOYAMA, 1924)

**B961 *Punipagia radiatolineata* (YOKOYAMA, 1924)**

(= *Tellina subelliptica* SOWERBY, 1868 *non* MEEK & HAYDEN, 1856, *nec* MAYER in REISS & BRONN, 1862; *T. (Punipagia) hypelliptica* SALISBURY, 1934)

Goshiki-hime-zara

- Type locality: Numa, Tateyama City, Chiba prefecture, central Honshū (fossil).
- Distribution: Sagami bay (KURODA & HABE, 1981), P6-P5, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5, ECP4-ECP2, P2, East China Sea; tropical Pacific.
- Habitat: subtidal to 50 m., fine sand.
- Original genus: *Tellina*.

□ Genus ***Jactellina* IREDALE, 1929-a**

Type species: *Tellina bougei* SOWERBY III, 1909 (o. d.)

**B962 *J. obliquistriata* (SOWERBY II, 1868 in 1865-78)**

Goshiki-zakura

- Type locality: 'Kingsmill Island' (Gilbert islands, Polynesia).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Hainan, South China Sea.
- Habitat: intertidal to 30 m., fine sand.
- Original genus: *Tellina*.

□ Genus *Loxoglypta* DALL, BARTSCH & REHDER, 1939

Type species: *Tellina obliquilineata* CONRAD, 1837 (o. d.)

B963 *L. lauta* (GOULD, 1850 in 1846-50)

(= *Tellina rhomboides* auct. non GMELIN, 1791; *T. clathrata* auct. non REUSS, 1844, nec RÖMER, 1850; *T. silicua* DESHAYES, 1854; *T. texturata* SOWERBY II in REEVE, 1867; *T. pura* H. ADAMS, 1870 non GOULD, 1850; *T. erythraeensis* H. ADAMS, 1870)

Shibori-zakura

- Type locality: 'Loo Choo' (Okinawa).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2; Philippines, Hainan, Red Sea, Indo-Pacific.
- Habitat: intertidal to 50 m., fine sand.
- Original genus: *Tellina*.

B964 *L. compta* (GOULD, 1850 in 1846-50)

Mikuni-shibori-zakura

- Type locality: 'Loo Choo' (Okinawa).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2.
- Habitat: subtidal to 20 m., fine sand.
- Original genus: *Tellina*.

B965 *L. transculpta* (SOWERBY III, 1915)

Hasume-zakura

- Type locality: Hirado island, Nagasaki prefecture, western Kyūshū.
- Distribution: Tosa bay (southern Shikoku) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea.
- Habitat: 10-50 m., fine sand.
- Original genus: *Macoma*.

□ Genus *Elliptotellina* COSSMANN, 1886

Type species: *Donax tellinella* LAMARCK, 1805 (o. d.)

B966 *E. euglypta* (GOULD, 1861 in 1859-61)

(= *Tellina fabrefacta* PILSBRY, 1904)

Chijimi-hime-zara

- Type locality: none originally given; 'Hirado, Nagasaki Pref., Kyūshū' in KURODA *et al.* (1971) with no note of designation.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (off Mishima, J2-J1), EC5, P2, East China Sea; southeast Asia, northern Australia, western Pacific.

- Habitat: intertidal to 300 m., fine sand.
- Original genus: *Tellina*.

B967 *E. kikaizimana* (NOMURA & JINBO, 1934)

- Type locality: Kikai island, off Amami Ōshima (fossil).
- Distribution: Izu islands (dredged on Zenisu bank TSUCHIDA & IKEBE, 1991), Kii peninsula (off Cape Shio KANEKO, 1989).

□ Genus *Semelangulus* IREDALE, 1924-b

Type species: *Tellina tenuilirata* SOWERBY II, 1867 (o. d.)

B968 *S. tokubeii* HABE, 1961-a

Kome-zakura

- Type locality: off Tomioka, Amakusa island, western Kyūshū; 10-20 m., fine sand and mud.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Seto inland sea, Japan Sea (Sado island, J3-J1), EC5.
- Habitat: subtidal to 80 m., fine sand.

B969 *S. miyatensis* (YOKOYAMA, 1920)

Niku-iro-zakura

- Type locality: Kami-miyata, Miura City, Kanagawa prefecture (near Tōkyō) (fossil).
- Distribution: Tōkyō bay (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea.
- Habitat: 10-150 m., fine sand and mud.
- Original genus: *Tellina*.

□ Genus *Moerella* FISCHER, 1887 in 1880-87

Type species: *Tellina donacina* LINNAEUS, 1758 (mt.)

(= *Moera* H. & A. ADAMS, 1856 in 1853-58 non HÜBNER, 1819; *Donacilla* GRAY, 1851 non BLAINVILLE, 1819; *Ashjoernsenia* FRIELE, 1886)

B970 *M. jedoensis* (LISCHKE, 1872 in 1868-73)

Momo-no-hana (= Edo-zakura)

- Type locality: 'Bucht von Jedo und zwar von Jokohama bis hinaus zur Insel Eno-Sima' (Tōkyō bay, specifically from Yokohama to Enoshima).
- Distribution: northeastern Honshū (Ōtsuchi bay TSUCHIDA & KUROZUMI, 1995-a) and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea, Yellow Sea, China.
- Habitat: intertidal to 50 m., sandy mud.
- Original genus: *Tellina*.

B971 *M. rutila* (DUNKER, 1860)

(= *Tellinides planissima peitaihoensis* GRABAU & KING, 1928; *M. juvenilis* KIRA, 1962 non HANLEY, 1844)

Yūshio-gai

- Type locality: 'im Hafen von Decima' (Dejima, harbour of Nagasaki City, western Kyūshū).

- Distribution: Mutsu bay (Aomori prefecture KURODA & HABE, 1981) and southwards, P10-P5, Seto inland sea, Japan Sea (Tsugaru peninsula, J4-J1), EC5, East China Sea; Korea, Yellow Sea, South China Sea, China (Hainan; Shandong).

- Habitat: intertidal, sandy mud in bays.

- Original genus: *Tellina*.

**B972 *M. culter* (HANLEY, 1844-d)**

Togari-yūshio-gai

- Type locality: 'Cagayan, province of Misamis, Mindanao' (Philippines); 'twenty-five fathoms, sandy mud'.

- Distribution: Iriomote islands (Okinawa prefecture HABE, 1981-a), ECP2, P2; Philippines, South China Sea, China (Beibu gulf; Hainan).

- Habitat: intertidal to 10 m., sandy mud among mangroves.

- Original genus: *Tellina*.

**B973 *M. iridescens* (BENSON, 1842)**

(= *Tellina carnea* PHILIPPI, 1844)

Teri-zakura

- Type locality: 'Chusan' (Zhoushan, Qundao province, China).

- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Seto inland sea, Japan Sea (J1), western Kyūshū (Ariake inland sea, EC5), P2, East China Sea; Yellow Sea, China (Qundao; Shandong), southeast Asia, northern Australia.

- Habitat: intertidal to 20 m., fine sand and mud.

- Original genus: *Sanguinolaria*.

**B974 *M. nishimurai* KURODA & HABE in HABE, 1958-b**

Nishimura-zakura

- Type locality: Funakoshi, Oga peninsula, Akita prefecture (Japan Sea).

- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5.

- Habitat: intertidal to 300 m., fine sand.

**B975 *M. philippinarum* (HANLEY, 1844-d)**

(= *Moerella philippinensis* HANLEY *sensu* HABE, 1977; HABE, 1981-a)

Ryūkyū-zakura

- Type locality: St. Nicolas, isle of Zebu, and Jimmamailan, isle of Negros' (Philippines).

- Distribution: Amami islands and southwards, Okinawa (HABE, 1981-a), ECP3-ECP2, P2; Philippines, South China Sea, Hong Kong, Hainan.

- Habitat: intertidal in sand and mud.

- Original genus: *Tellina*.

□ Genus *Bathytellina* KURODA & HABE in HABE, 1958-b

Type species: *Bathytellina citrocarnea* KURODA & HABE, 1958 (mt.)

**B976 *B. citrocarnea* KURODA & HABE in HABE, 1958-b**

Wadatsumi-zakura

- Type locality: Tosa bay, southern Shikoku.

- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, western Kyūshū.

- Habitat: 50-300 m., fine sand.

**B977 *B. abyssicola* (HABE, 1958-b)**

Fugen-zakura

- Type locality: 'Sōyō-Maru' sta. 220, Tosa bay (southern Shikoku): 33° 7' 20" N., 134° 10' E. and 33° 15' 20" N., 134° 1' E., 234 m., shelly sand.

- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5.

- Habitat: 100-450 m., fine sand.

- Original genus: *Fabulina*.

□ Genus *Nitidotellina* SCARLATO, 1965

Type species: *Tellina nitidula* DUNKER, 1860 *non* DESHAYES, 1857 (o. d.; = *Fabulina hokkaidoensis* HABE, 1961)

**B978 *N. hokkaidoensis* (HABE, 1961-a)**

(= *Tellina nitidula* DUNKER, 1860 *non* DESHAYES, 1857; *Nitidotellina dunkeri* BERNARD *et al.*, 1993)

Sakura-gai (= Usu-iro-zakura)

- Type locality: Oshoro, Otaru City, southwestern Hokkaidō (Japan Sea); 10-20 m., fine sand.

- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (western Hokkaidō, Tsugaru peninsula, J4-J1), EC5, East China Sea; Korea, Yellow Sea, South China Sea, Taiwan, China, Indonesia.

- Habitat: intertidal to 80 m., sandy mud.

- Original genus: *Fabulina* (as ssp. of *F. nitidula*).

**B979 *N. soyoeae* (HABE, 1958-b)**

Sōyō-zakura (= Ki-zakura)

- Type locality: 'Sōyō-Maru' sta. 483, off Yamaguchi prefecture (western Honshū, Japan Sea): 34° 44' 50" N., 130° 47' 10" E., 130 m., sand.

- Distribution: Enshū-nada (KURODA & HABE, 1981) and westwards, P6-P5, Japan Sea (J1), EC5.

- Habitat: 100-250 m., fine sand.

- Original genus: *Fabulina*.

**B980 *N. minuta* (LISCHKE, 1872 in 1868-73)**

Uzu-zakura

- Type locality: 'Bucht von Jedo und zwar von Jokohama bis hinaus zur Insel Eno-Sima' (Tōkyō bay, specifically from Yokohama to Enoshima).

- Distribution: southern Hokkaidō (KURODA & HABE,

1981) and southwards, P10-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5; southern Korea, Yellow Sea, China (Bo-hai; Shandong; Hainan), South China Sea, Australia.

- Habitat: intertidal to 50 m., sandy mud.
- Original genus: *Tellina*.

**B981 *N. iridella* (MARTENS, 1865-a)**

Kaba-zakura

- Type locality: Japan.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, East China Sea, P2; Korea, Yellow Sea, Philippines, China (Shandong), South China Sea.

- Habitat: subtidal to 30 m., fine sand and mud.
- Original genus: *Tellina*.

**B982 *N. pallidula* (LISCHKE, 1871 in 1868-73)**

Hatsu-zakura (= Shiro-zakura)

- Type locality: 'Nagasaki' (western Kyūshū).
- Distribution: Mutsu bay (Aomori prefecture KURODA & HABE, 1981) and southwards, P9-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5, P2, East China Sea; Philippines, southeast Asia.
- Habitat: 10-80 m., fine sand.
- Original genus: *Tellina*.

**Subfamily STRIGILLINAE IREDALE & MCMICHAEL, 1962**

□ Genus *Aeretica* DALL, 1900-d

Type species: *Tellina senegalensis* HANLEY, 1844 non GMELIN, 1791 (o. d.); = *Strigilla polyaulax* TOMLIN & SHACKLEFORD, 1915)

**B983 *A. tomlini* (E. A. SMITH, 1915)**

(= *Tellina splendida* HANLEY, 1846 non ANTON, 1838) Ogata-zara (= Ogata-zakura)

- Type locality: Basay, Samar, Philippines.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hainan, Australia.
- Habitat: subtidal to 30 m., sand.
- Original genus: *Strigilla*.

**Subfamily MACOMINAE OLSSON, 1961**

□ Genus *Heteromacoma* HABE, 1952-c

Type species: *Tellina irus* HANLEY, 1845 (o. d.)

**B984 *H. irus* (HANLEY, 1845-a)**

(= *Fragilia yantaiensis* CROSSE & DESHAYES, 1863; *Heteromacoma oyamai* KIRA, 1959) Shiratori-modoki

- Type locality: none designated.
- Distribution: southern Hokkaidō (KURODA & HABE, 1981) and southwards, P10-P5, Japan Sea (Oga peninsula,

J3-J1), EC5; Korea, Yellow Sea, Bo-hai, China.

- Habitat: intertidal, gravel and mud.

**B985 *H. japonica* (MARTENS, 1872)**

- Type locality: Japan.
- Distribution: Pacific coast, 35°-39° N., Japan Sea coast, 38°-40° N.' (KURODA & HABE, 1952-a).

□ Genus *Macoma* LEACH, 1819

Type species: *Macoma tenera* LEACH, 1819 (mt.; = *Tellina calcarea* GMELIN, 1791)

(= *Limecola* LEACH in BROWN, 1844; *Macomopsis* SACCO, 1901)

Subgenus *Macoma s. str.*

**B986 *M. (M.) calcarea* (GMELIN, 1791)**

Kesho-shiratori (= Yōroppa-shiratori)

- Type locality: 'in mari Islandiam' (seas of Iceland).
- Distribution: Tosa bay (southern Shikoku) and northwards (Sagami bay OKUTANI, 1962; 1966), P5-P10, Japan Sea (J2-J5), Okhotsk Sea, OP, Kuril islands; Bering Sea, northern Pacific, Arctic Ocean, northern Atlantic.
- Habitat: 10-1030 m., fine sand and mud.
- Original genus: *Tellina*.

**B987 *M. (M.) scarlatoi* KAFANOV & LUTAENKO, 1997**

(= *M. orientalis* SCARLATO in GOLIKOV & SCARLATO, 1967 non DALL, 1890; *M. calcarea* GMELIN *sensu* HABE, 1955 (*pars*), HABE, 1964 (*pars*), YAMAMOTO & HABE, 1959 (*pars*), AKAMATSU & SUZUKI, 1992)

- Type locality: Posyet bay, Japan Sea coast of Russia (western Primoriye region).
- Distribution: northern Honshū (Mutsu bay), Hokkaidō (Akkeshi bay), southern Kuril islands, Okhotsk Sea (Aniwa and Terpeniya bays); coastal northwestern Japan Sea (Primoriye region).

**B988 *M. (M.) praetexta* (MARTENS, 1865-a)**

Ō-momo-no-hana

- Type locality: Yokohama.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), P2, East China Sea; Yellow Sea, Bo-hai.
- Habitat: intertidal to 50 m., fine sand.

**B989 *M. (M.) tokyoensis* MAKIYAMA, 1927**

(= *Tellina dissimilis* MARTENS, 1865 non DESHAYES, 1854)

Goisagi-gai

- Type locality: Yabu-mura, Inba district, Chiba prefecture, central Honshū (fossil).
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea.
- Habitat: intertidal to 100 m., mud in bays.

**B990 *M. (M.) balthica takahokoensis* YAMAMOTO & HABE, 1959**

Takahoko-shiratori

- Type locality: Takahoko marsh, Shimokita peninsula, Aomori prefecture, northern Honshū.
- Distribution: Aomori prefecture (Takahoko marsh; Obuchi marsh).
- Habitat: intertidal, mud in brackish waters.

**B991 *M. (M.) balthica inconspicua* (BRODERIP & SOWERBY, 1829)**

Bara-iro-shiratori (= Kita-no-momo-no-hana)

- Type locality: 'in *Oceano Arctico* ... from Icy Cape' (near Wainwright, northwestern Alaska).
- Distribution: Hokkaidō and northwards, P10, OP, Kuril islands, Okhotsk Sea; Bering Sea, Alaska, Canada, northern USA to California.
- Habitat: intertidal, sandy mud.
- Original genus: *Tellina*.

**B992 *M. (M.) incongrua* (MARTENS, 1865-a)**

(= *Tellina inquinata sensu* LISCHKE, 1871; *T. murrayi* GRABAU & MARTENS, 1928; *T. incongrua* MARTENS *sensu* KURODA *et al.*, 1971)

Hime-shiratori

- Type locality: Yokohama, central Honshū (Tōkyō bay).
- Distribution: all Japan (both sides) from western Kyūshū to Hokkaidō, OP, Okhotsk Sea, Kuril islands; Korea, Yellow Sea, China (Bo-hai; Shandong), Sakhalin, Bering Sea, Alaska, Canada.
- Habitat: intertidal to 50 m., mud.
- Original genus: *Tellina*.

**B993 *M. (M.) contabulata* (DESHAYES, 1855-c)**

(= *Tellina irus auct. non* HANLEY, 1844; *Lucina corrugata* DUNKER, 1882; *Macoma anser* ŌYAMA, 1950)

Sabi-shiratori

- Type locality: 'Chinese Seas'.
- Distribution: southern Hokkaidō and southwards, P10-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5; Yellow Sea, Korea, China (Shandong).
- Habitat: subtidal, sandy mud in bays.
- Original genus: *Tellina*.

**B994 *M. (M.) middendorffi* DALL, 1884**

Seitaka-shiratori

- Type locality: Bering island (Komandorskiye group), Bering Sea.
- Distribution: Hokkaidō and northwards, P10, OP, Kuril islands, Okhotsk Sea; Bering Sea, Alaska.
- Habitat: subtidal to 30 m., fine sand and mud.

**Notes:** originally ssp. of *M. edentula*.

**B995 *M. (M.) nasuta* (CONRAD, 1837-a)**

Shiratori-gai (= Shirifuri-shiratori)

- Type locality: California, USA.
- Distribution: Hokkaidō (Nemuro) and northwards, P10, OP, Kuril islands, Okhotsk Sea; Bering Sea, Alaska, western USA.
- Habitat: subtidal to 30 m., fine sand.
- Original genus: *Tellina*.

**B996 *M. (M.) praemitis* (RÖMER, 1872)**

- Type locality: Japan.
- Distribution: 'Pacific side?' (KURODA & HABE, 1952-a).
- Original genus: *Tellina*.

**B997 *M. (M.) brota* DALL, 1916-b**

(= *Tellina edentula* BRODERIP & SOWERBY, 1829 *non* SPENGLER, 1798)

Arasuka-shiratori

- Type locality: 'in *Oceano Boreali*, from Behring's Straits'.
- Distribution: Kuril islands and northwards, OP, Okhotsk Sea; Sakhalin, Bering Sea, Alaska (HABE, 1977-a).
- Habitat: intertidal.

**B998 *M. (M.) nipponica* (TOKUNAGA, 1906)**

Nippon-shiratori

- Type locality: Ōji, Kita-ku, Tōkyō City (fossil).
- Distribution: southern Hokkaidō and southwards, Iwate prefecture (Ōtsuchi bay TSUCHIDA & KUROSUMI, 1995-a), P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5.
- Habitat: 20-100 m., sandy mud.
- Original genus: *Tellina*.

**B999 *M. (M.) moesta* (DESHAYES, 1855-c)**

Soto-ori-shiratori

- Type locality: 'Northern Ocean'.
- Distribution: northeastern Honshū (Ōtsuchi bay TSUCHIDA & KUROSUMI, 1995-a) and northwards, P9-P10, OP, Kuril islands, Okhotsk Sea; Bering Sea, Arctic Ocean, Alaska.
- Habitat: subtidal to 200 m., sandy mud.
- Original genus: *Tellina*.

**B1000 *M. (M.) lama* BARTSCH, 1929**

- Type locality: west coast of Kamchatka, Russia.
- Distribution: Okhotsk Sea; northern Japan Sea (Vladivostok; Primoriye region) Kamchatka peninsula, Alaska.
- Habitat: intertidal to 183 m., fine sand.

**Subgenus *Psammacoma* DALL, 1900-b**

Type species: *Psammotaea candida* LAMARCK, 1818 (o. d.)

**B1001 *M. (P.) candida* (LAMARCK, 1818 in 1815-22)**

(= *Tellina arafurensis* E. A. SMITH, 1885; *Macoma awajiensis* SOWERBY III, 1914)

Awaji-chigai (= Migaki-shiratori)

- Type locality: 'les mers de la Nouvelle-Hollande, à l'île aux animaux' (Australia).
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Seto inland sea, Japan Sea (Noto peninsula, J2-J1), western Kyūshū (Ariake inland sea; Ōmura bay), East China Sea, P2; South China Sea, Hainan, Hong Kong, Philippines, Thailand, Indonesia.
- Habitat: subtidal to 50 m., sandy mud.
- Original genus: *Psammotaeta*.

□ Genus *Rexithaerus* TRYON, 1869

Type species: *Tellina secta* CONRAD, 1837 (s. d. DALL, 1900)

B1002 *R. sector* ŌYAMA, 1950

(= *Tellina japonica* DESHAYES, 1854 non THUNBERG, 1815)

Sagi-gai

- Type locality: Ōtake, Narita City, Chiba prefecture, central Honshū (fossil).
- Distribution: all Japan (both sides) from Okhotsk Sea to East China Sea, P2; China, Taiwan, Korea, Sakhalin.
- Habitat: 10-30 m., mud, in bays.

□ Genus *Macalia* H. ADAMS, 1860

Type species: *Tellina bruguieri* HANLEY, 1844 (mt.)

B1003 *M. bruguieri* (HANLEY, 1844-e)

Ama-sagi-gai

- Type locality: 'Ilo-Ilo, isle of Panay; hard sand' (Philippines).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, South China Sea, China (Hainan; Beibu gulf), Malaysia.
- Habitat: intertidal to 20 m., sand and mud.
- Original genus: *Tellina*.

□ Genus *Psammotreta* DALL, 1900-b

Type species: *Tellina aurora* HANLEY, 1844 (o. d.)

(= *Cydippina* DALL, 1900)

Subgenus *Pseudometis* LAMY, 1918-b

Type species: *Tellina truncata* PHILIPPI, 1843 non LINNAEUS, 1767 (s. d. SALISBURY, 1934; = *Tellina praerupta* SALISBURY, 1934)

B1004 *P. (P.) praerupta* (SALISBURY, 1934)

(= *Tellina truncata* PHILIPPI, 1843 non LINNAEUS, 1758; *Psammotreta papyracea keanae* HABE, 1964)

Ao-sagi-gai

- Type locality: 'Manila, Philippines'.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Seto inland sea, Japan Sea (Noto peninsula, J2-J1), EC5, P2; Philippines, Taiwan, South China Sea, Hong Kong, Red Sea, western Pacific.
- Habitat: 10-50 m., sandy mud.

- Original genus: *Tellina*.

**Notes:** Taiwan-shiratori *Tellina edentula* SPENGLER, 1798 has been 'doubtfully recorded' from the Kii peninsula (KURODA & HABE, 1981: 135). The present authors have been unable to confirm distribution of this species in Japan.

□ Genus *Apolymetis* SALISBURY, 1929

Type species: *Tellina meyeri* PHILIPPI, 1846 (mt.)

(= *Polymetyus* SALISBURY, 1929 non WALSINGHAM, 1908; *Metis* H. & A. ADAMS, 1856 in 1853-58 non PHILIPPI, 1843)

B1005 *A. meyeri* (PHILIPPI, 1846 in 1842-51)

Fuku-rokuju-gai (= Hotei-gai)

- Type locality: 'Indiae orientales' (East Indies).
- Distribution: P2; South China Sea, Hainan, southern China, Philippines, Indonesia.
- Habitat: intertidal to 20 m., mud.
- Original genus: *Tellina*.

□ Genus *Leporimetis* IREDALE, 1930-a

Type species: *Tellina spectabilis* HANLEY, 1844 (o. d.)

B1006 *L. spectabilis* (HANLEY, 1844-e)

(= *Tellina myeri* SOWERBY II, 1868 in 1865-78)

Jūrōjin-gai

- Type locality: 'Bay of Manila and island of Siquijor; on coral sand at low water' (Philippines).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2, East China Sea; Philippines, South China Sea, southeast Asia.
- Habitat: subtidal to 20 m., sand and mud.
- Original genus: *Tellina*.

Family SEMELIDAE STOLICZKA, 1870 in 1870-71

Subfamily SEMELINAE STOLICZKA, 1870 in 1870-71

□ Genus *Semele* SCHUMACHER, 1817

Type species: *Semele reticulata* SCHUMACHER, 1817

(mt.; = *Tellina proficua* PULTENEY, 1799)

(= *Amphidesma* LAMARCK, 1818 in 1815-22)

B1007 *S. zebuense* (METCALFE, 1844)

(= *Amphidesma zebuensis* HANLEY, 1844; *A. exarata* ADAMS & REEVE, 1850 in 1848-50; *A. duplicata sensu* REEVE, 1853; *Semele gouldii* TRYON, 1868)

Asaji-gai

- Type locality: Cebu island, Philippines.
- Distribution: northeastern Honshū (Fukushima prefecture) and southwards, P8-P5, Seto inland sea, Japan Sea (J1), northwestern Kyūshū, EC5, P2; China, Philippines, South China Sea, southeast Asia, Australia.
- Habitat: 10-50 m., fine sand.
- Original genus: *Amphidesma*.

B1008 *S. crenulata* (SOWERBY II, 1841 in 1832-41)

(= *Amphidesma scabra* METCALFE, 1844)

Chijimi-asaji-gai

- Type locality: South China Sea.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, South China Sea, Indonesia, Australia, western Pacific.
- Habitat: intertidal to 35 m., mud, in bays.
- Original genus: *Amphidesma*.

B1009 *S. carnicolor* (HANLEY, 1845-b)

(= *S. vestalis* A. ADAMS, 1854-e; *S. alveata* GOULD, 1861)

Same-zara-modoki

- Type locality: 'Philippines'.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, western Kyūshū, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Yellow Sea, Australia, tropical Indo-Pacific.
- Habitat: intertidal to 50 m., sand and mud.
- Original genus: *Amphidesma*.

B1010 *S. sinensis* A. ADAMS, 1854-e

(= *Amphidesma cordiforme* GRAY, 1825 non SOWERBY, 1825)

Furui-gai

- Type locality: China.
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (Noto peninsula, J2-J1), EC5, East China Sea; South China Sea, Hainan, Philippines, southeast Asia, southern China, Red Sea.
- Habitat: intertidal to 20 m., coarse sand and stones; mud.

B1011 *S. obscura* (DESHAYES, 1863)

(= *Amphidesma burbonia* DESHAYES, 1863; *S. tita* DALL, BARTSCH & REHDER, 1938)

Shiwa-same-zara

- Type locality: Bourbon island (Réunion, Indian Ocean).
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, ECP4-ECP2, P2, East China Sea; Philippines, Réunion, Hawaii.
- Habitat: subtidal to 20 m., sand and mud.
- Original genus: *Amphidesma*.

B1012 *S. australis* (SOWERBY I, 1832)

Shiwa-same-zara-modoki

- Type locality: 'Lord Hood's island' (probably Marutea, 21° 30' S., 135° 33' W.)
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Australia, Hawaii, Marshall islands, Tuamoto Archipelago.
- Habitat: subtidal to 20 m., coarse sand and stones.
- Original genus: *Amphidesma*.

B1013 *S. casta* A. ADAMS, 1854-e

Toge-asaji-gai

- Type locality: Moreton bay, Australia.

- Distribution: Okinawa and southwards, ECP2, P2; Philippines, South China Sea, Australia.
- Habitat: 2-30 m., fine sand.

B1014 *S. hanleyi* ANGAS, 1878-c

- Type locality: 'Japanese seas'.
- Distribution: 'Pacific side?' (KURODA & HABE, 1952-a).

**Notes:** Hosone-asaji-gai *Cuningia lamellosa* SOWERBY I, 1833 (type locality: 'prope littora Oceani Pacifici. Found at Payta in hard clay at low water; at Panama in deep water') was recorded from 'Pacific coast at 35° N.'

(KURODA & HABE, 1952-a); the present authors have been unable to confirm distribution of this species in Japan.

□ Genus *Montrouzieria* SOUVERBIE, 1863 in SOUVERBIE & MONTROUZIER, 1859-79

Type species: *Montrouziera clathrata* SOUVERBIE, 1863 (o. d.)

(= *Montrouziera* SOUVERBIE, 1863 non BIGOT, 1860; *Eumontrouziera* HEDLEY, 1915)

B1015 *M. clathrata* SOUVERBIE, 1863 in SOUVERBIE & MONTROUZIER, 1859-79

- Type locality: New Caledonia.
- Distribution: Okinawa and southwards, ECP2, P2; Philippines, New Caledonia.

□ Genus *Lonoa* DALL, BARTSCH & REHDER, 1938

Type species: *Lonoa hawaiiensis* DALL, BARTSCH & REHDER, 1938 (o. d.)

B1016 *L. katoi* HABE, 1976-a

Kakera-gai

- Type locality: Tsuchi-hama, Amami-Ōshima.
- Distribution: Amami islands and southwards, ECP3-ECP2.
- Habitat: intertidal to 20 m., coarse sand and stones.

□ Genus *Iacra* H. & A. ADAMS, 1856 in 1853-58

Type species: *Scrobicularia (Iacra) seychellarum* A. ADAMS, 1856-a (mt.)

(= *Strigillina* DUNKER, 1861)

B1017 *I. japonica* A. ADAMS, 1864-d

- Type locality: 'Kino-O-Sima' (Kii-Ōshima, Kii peninsula, central Honshū).
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, EC5, East China Sea; Taiwan.
- Habitat: intertidal to 10 m., sand.

□ Genus *Leptomya* A. ADAMS, 1864-c

Type species: *Neaera cochlearis* HINDS, 1844 (s. d. STOLICZKA, 1871)

B1018 *L. cochlearis* (HINDS, 1844-f)

Shakushi-gai-damashi



- Type locality: Japan.
- Distribution: Japan, Philippines (HABE, 1977-a); Taiwan, South China Sea, Red Sea (BERNARD *et al.*, 1993).
- Habitat: intertidal in sand.
- Original genus: *Neaera*.

B1019 *L. adunca* (GOULD, 1861 in 1859-61)

Na-no-hana-gai

- Type locality: 'Loo Choo' (Okinawa).
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2.
- Habitat: subtidal to 20 m., sandy mud.
- Original genus: *Scrobicularis* (*Capsa*).

B1020 *L. trigonalis* (ADAMS & REEVE, 1850 in 1848-50)

Shiro-na-no-hana-gai

- Type locality: 'Sooloo' (Sulu) Archipelago, Philippines.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines.
- Habitat: subtidal to 20 m., sandy mud.
- Original genus: *Thracia*.

B1021 *L. nitida* (ADAMS & REEVE, 1850 in 1848-50)

Tsume-shakushi

- Type locality: 'Shores of Borneo'.
- Distribution: P2; Taiwan and southwards, Philippines, Borneo, tropical western Pacific.
- Habitat: subtidal to 30 m., sandy mud.
- Original genus: *Poromya*.

B1022 *L. cuspidariaeformis* HABE, 1952-c

Kochō-shakushi

- Type locality: Sagami bay, central Honshū.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Seto inland sea, Japan Sea (Sado island, J3-J1), EC5.
- Habitat: 10-200 m., fine sand.

B1023 *L. minuta* HABE, 1960-b

Mijin-kochō-shakushi

- Type locality: Tanabe bay, Kii peninsula, central Honshū (Wakayama prefecture).
- Distribution: Kii peninsula and westwards, P5, EC5; Yellow Sea, China (Shandong).
- Habitat: 10-30 m., soft mud.

□ Genus *Leptomyaria* HABE, 1960-a

Type species: *Leptomyaria trigona* HABE, 1960 (o. d.)

B1024 *Leptomyaria trigona* HABE, 1960-a

Chibi-kochō-shakushi

- Type locality: Tomioka, Amakusa island, western Kyūshū.
- Distribution: Kii peninsula (Tanabe bay, Wakayama prefecture KURODA & HABE, 1981) and southwards, P5,

Japan Sea (northern Niigata prefecture, J3-J1), EC5.

- Habitat: intertidal to 150 m., sandy mud.

□ Genus *Theora* H. & A. ADAMS, 1856 in 1853-58

Type species: *Neaera lata* HINDS, 1843 (s. d. STOLICZKA, 1871)

(= *Endopleura* A. ADAMS, 1864-c)

B1025 *T. fragilis* A. ADAMS, 1856-b

(= *Theora lubrica* GOULD, 1861; *T. nitida* GOULD, 1861)

Shizuku-gai

- Type locality: Moreton bay, Australia.
- Distribution: all Japan (both sides) from Hokkaidō to southwestern Kyūshū; southern Korea, Yellow Sea, Bo-hai, southeast Asia, Australia.
- Habitat: intertidal to 90 m., mud.
- Original genus: *Neaera*.

□ Genus *Abra* LAMARCK, 1818 in 1815-22

Type species: *Mactra tenuis* MONTAGU, 1818; (s. d. HERRMANNSEN, 1846)

(= *Dorvillia* LEACH, 1852; *Habra* AGASSIZ, 1846 *nom. null.*; *Orixa* LEACH in GRAY, 1852; *Lutricularia* MONTEROSATO, 1884; *Syndesmyella* SACCO, 1901)

B1026 *A. fujitai* HABE, 1958-b

(= *A. kurodai* HABE, 1961)

Ryūgū-zakura (= Urashima-zakura)

- Type locality: Tosa bay, southern Shikoku.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Wakasa bay, J2-J1), EC5.
- Habitat: 40-300 m., sandy mud.

**Notes:** Urashima-zakura *A. kurodai* HABE, 1961-b (type locality: Tosa bay, southern Shikoku; 80-150 fms.) 'seems to be the fully grown specimens of *Abra fujitai* Habe' (KURODA & HABE, 1981).

B1027 *A. soyoae* HABE, 1958-b

Shiratori-ryūgū-zakura (= Sōyō-ryūgū-zakura)

- Type locality: 'Sōyō-Maru' sta. 452, off Gotō islands, western Kyūshū: 32° 43' 15" N., 127° 44' 30" E., 154 m., muddy sand.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5.
- Habitat: 60-500 m., fine sandy mud.

B1028 *A. kyurokusimana* (NOMURA & HATAI, 1940)

Tsubomi-ryūgū-zakura

- Type locality: Kyurokushima (island), Japan Sea off northwestern Honshū (Akita prefecture).
- Distribution: Sagami bay (KURODA & HABE, 1981) and southwards, P6-P5, Japan Sea (off Akita prefecture, J4-J1).

- Habitat: 40-200 m., sandy mud.
- Original genus: *Tellina*.

**B1029 *A. philippinensis* (E. A. SMITH, 1885-a)**

Tsuya-ryūgū-zakura-gai

- Type locality: 'Challenger' sta. 210, east of Panay, Philippines: 09° 26' N., 123° 45' E., 375 fms.
- Distribution: Kii peninsula (TSUCHIDA, 1985-b); Philippines.
- Original genus: *Semele* (*Abra*).

**B1030 *A. profundorum profundorum* (E. A. SMITH, 1885-a)**

- Type locality: five 'Challenger' stations from the Azores and Canary islands to mid-north Pacific.
- Distribution: Tosa bay (TSUCHIDA, 1994-b), Izu islands (off Bayonnaise rock, 1930-1940 m. OKUTANI, 1968), Izu-Bonin trench; Atlantic Ocean, west Africa, northern Pacific Ocean.
- Habitat: 1000-5800m, in mud.
- Original genus: *Semele* (*Abra*).

**B1031 *A. profundorum japonicum* OKUTANI, 1975-b**

Masari-ryūgū-zakura

- Type locality: off Izu islands: 31° 11.8' N., 141° 41.0' E., 5160 m.
- Distribution: Izu islands and southwards, Ogasawara islands, P6-P5, EC5; Taiwan, South China Sea.
- Habitat: 100-5600 m., fine sand and mud.

**B1032 *A. maxima* (SOWERBY III, 1894-c)**

Ō-ryūgū-zakura

- Type locality: 'Bay of Bengal, 677 fathoms'.
- Distribution: Sagami bay and southwards, Suruga bay; Taiwan, South China Sea, Indian Ocean.
- Habitat: 100-700 m., sandy mud.
- Original genus: *Syndesma*.

**B1033 *A. opalina* (HINDS, 1843-e)**

- Type locality: 'Bassey, island of Samar, Philippines; from four fathoms, among coarse sand and mud'.
- Distribution: 'Pacific side (?)' (KURODA & HABE, 1952-a); Philippines.
- Original genus: *Neaera*.

□ Genus *Abrina* HABE, 1952-c

Type species: *Abra kanamarui* KURODA, 1951 (o. d.; = *Macoma lunella* GOULD, 1861)

**B1034 *Abrina lunella* (GOULD, 1861 in 1859-61)**

(= *Macoma hakushatonensis* NOMURA, 1933; *Abra kanamarui* KURODA, 1951-a)  
Shirobato-gai (= Kobato-gai)

- Type locality: 'China Seas, lat. 24° N., 25 fms.'
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (Noto peninsula, J2-J1), EC5, East

China Sea; Yellow Sea, China (Shandong), Taiwan.

- Habitat: 10-210 m., fine sand and mud.
- Original genus: *Macoma*.

**B1035 *Abrina skinoshitai* KURODA & HABE in HABE, 1958-b**

Kinoshita-shirobato-gai (= Mamire-ryūgū-zakura)

- Type locality: 'Sōyō-Maru' sta. 371, off Miyazaki prefecture, southeastern Kyūshū: 34° 30' 15" N., 137° 21' 45" E., 84 m., mud.
- Distribution: northeastern Honshū (Ōtsuchi bay Tsuchida & Kurozumi, 1995-a) and southwards, P8-P5, Japan Sea (northern Niigata prefecture and southwards, J3-J1), EC5, East China Sea; Yellow Sea.
- Habitat: 50-500 m., sandy mud.
- Notes: originally named *s-kinoshitai*.

**B1036 *Abrina inanis* (PRASHAD, 1932)**

Ryūgū-maru-yama-zakura

- Type locality: 'Siboga' sta. 159, Halmahera Sea off western New Guinea: 0° 59.1' S., 129° 48.8' E., 411 m.
- Distribution: Tosa bay and southwards (HABE, 1977-a); Indonesia.
- Original genus: *Abra*.

**B1037 *Abrina sibogai* (PRASHAD, 1932)**

- Type locality: 'Siboga' sta. 45, Flores Sea north off Sumbawa, Indonesia: 07° 24' S., 118° 15.2' E., 794 m.
- Distribution: Tosa bay and southwards; Taiwan, South China Sea, Philippines, Celebes Sea.
- Habitat: intertidal, sand.
- Original genus: *Abra*.

□ Genus *Scrobicularia* SCHUMACHER, 1816

Type species: *Scrobicularia calcarea* SCHUMACHER, 1816 (s. d. BUCQUOY *et al.*, 1898; = *Trigonella plana* DA COSTA, 1778)

**B1038 *S. caduca* GOULD, 1861 in 1859-61**

- Type locality: 'Loo Choo' (Okinawa).
- Distribution: Okinawa (KURODA, 1960).

Subfamily **ERVILIINAE DALL, 1895**

(Morton & Scott, 1990)

□ Genus *Ervilia* TURTON, 1822

Type species: *Mya nitens* MONTAGU, 1806 (mt.) (= *Rochefortina* DALL, 1924; *Spondervilia* IREDALE, 1930)

**B1039 *E. bisculpta* GOULD, 1861 in 1859-61**

(= *E. livida* GOULD, 1861; *E. japonica* A. ADAMS, 1862-b; *E. australis* ANGAS, 1877; *E. ambla* DALL, BARTSCH & REHDER, 1938)

Hama-chidori-gai

- Type locality: 'Kagosima (Kagoshima, southern Kyūshū), in sand, 5 fathoms'.

- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Wakasa bay, J2-J1), EC5, East China Sea, P2; Taiwan, South China Sea, Philippines, southeast Asia, northern Australia, Hawaii.
- Habitat: intertidal to 20 m., sand.

B1040 *E. sandwichensis* E. A. SMITH, 1885-a

(= *Rochefortia semele* DALL, 1924; *S. rubra* LASERON, 1953; *Ervilia simplex* LASERON, 1953)

Hakobeno-hana

- Type locality: Honolulu, Hawaii; 'off the reefs in 40 fms'.
- Distribution: Ryūkyū islands (Ie; Irabu & Shimoji in subtidal caves HAYAMI & KASE, 1993), Hachijō island and southwards, P6-P5, EC5 (Gotō islands KURODA & HABE, 1981), ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hawaii (10-20 m., sand).

Family **PSAMMOBIIDAE FLEMING, 1818**

(Refs.: Willan, 1993)

Subfamily **PSAMMOBIINAE FLEMING, 1818**

□ Genus *Gari* SCHUMACHER, 1817

Type species: *Gari vulgaris* SCHUMACHER, 1817 (mt.; = *Solen amethystus* WOOD, 1815)

(= *Capsella* DESHAYES, 1855 non GRAY, 1851;

*Milligareta* IREDALE, 1936)

B1041 *G. truncata* (LINNAEUS, 1767)

(= *Tellina gari* LINNAEUS, 1758 nom. oblit.; *Psammobia bipartita* PHILIPPI, 1849; *P. caerulea* REEVE, 1857 non LAMARCK, 1818 in 1815-22)

Shio-sazanami

- Type locality: 'in Java' (Indonesia).
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, China, Indonesia, Red Sea, Indo-western Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Tellina*.

B1042 *G. maculosa* (LAMARCK, 1818 in 1815-22)

(= *Psammobia ornata* DESHAYES, 1854; *P. corrugata* DESHAYES, 1854; *P. marmorea* DESHAYES, 1854; *P. rubicunda* DESHAYES, 1854)

Ashi-gai (= Yoshi-gai; Okinawa-yoshi-gai)

- Type locality: 'les mers de l'Inde'.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Seto inland sea, Japan Sea (northern Yamaguchi prefecture, J1), EC5, East China Sea, P2; China (Hainan), South China Sea, Australia, tropical Indo-Pacific.
- Habitat: intertidal to 30 m., sand.
- Original genus: *Psammobia*.

B1043 *G. anomala* (DESHAYES, 1855-c)

(= *Psammobia tenuis* DESHAYES, 1855-c)

Usu-beni-masuhō

- Type locality: 'Philippine Islands, Zebu' (Cebu).
- Distribution: northeastern Honshū (Ōtsuchi bay TSUCHIDA & KUROZUMI, 1995-a), and southwards, P9-P5, Japan Sea (northern Niigata prefecture, J3-J1), EC5, East China Sea; South China Sea, Taiwan, southeast Asia, northern Australia.
- Habitat: 20-170 m., sand.
- Original genus: *Psammobia*.

B1044 *G. sibogai* PRASHAD, 1932

Hoso-ashi-gai (= Shiboga-ashi-gai)

- Type locality: 'Siboga' sta. 240, 'Banda Anchorage' (Banda Sea, south of Ceram island, Indonesia).
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, EC5, East China Sea; Taiwan, South China Sea, Indonesia, Australia (Queensland LAMPRELL & HEALY, 1998).
- Habitat: 20-120 m., sand.

B1045 *G. praestans* (DESHAYES, 1855-c)

Habutae-ashi-gai

- Type locality: 'Moluccas' (Maluku, Indonesia).
- Distribution: Okinawa (KURODA, 1960) and southwards, ECP2; Indonesia.
- Original genus: *Psammobia*.

B1046 *G. pallida* (DESHAYES, 1855-c)

(= *Psammobia maculosa* AUDOUIN, 1827 non LAMARCK, 1818 in 1815-22; *P. pulchella* REEVE, 1856 non LAMARCK, 1818 in 1815-22; *P. weinkauffi* CROSSE, 1864-b; *P. bertini* HIDALGO, 1903; *G. hosoyai* HABE, 1958-b)

Asahi-gai (= Hinode-ashi-gai)

- Type locality: 'Red Sea'.
- Distribution: northeastern Honshū (Kesen-numa district TOBA & CHIBA, 1939); 'tropical western Pacific (not east of New Caledonia) to the Indian Ocean and Red Sea' (WILLAN, 1993), Australia (Great Barrier Reef, Queensland; intertidal to 3 m., sand LAMPRELL & WHITEHEAD, 1992).
- Original genus: *Psammobia*.

□ Genus *Grammatomya* DALL, 1898-b

Type species: *Psammobia squamosa* LAMARCK, 1818 (mt.)

(Refs.: Matsukuma, 1989-b)

B1047 *G. squamosa* (LAMARCK, 1818 in 1815-22)

(= *Psammobia denticulata* ADAMS & REEVE, 1850 in 1848-50; *P. rugulosa* ADAMS & REEVE, 1850 in 1848-50; *P. palmula* DESHAYES, 1855-c)

Hasume-yoshi-gai

- Type locality: none designated.
- Distribution: Tosa bay and southwards, P5, ECP4-ECP2,

P2; Philippines, South China Sea, Indonesia, tropical western Pacific.

- Habitat: 10-30 m., sand.
- Original genus: *Psammobia*.

**B1048 *G. pulcherrima* (DESHAYES, 1855-c)**

(= *Castalia pazi* HIDALGO, 1868; *Psammobia abrupta* DESHAYES, 1855-c)

Sakurai-masuhō

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, South China Sea, tropical western Pacific.
- Habitat: subtidal to 20 m., sand.
- Original genus: *Psammobia*.

**B1049 *G. kurodai* HABE in KURODA & HABE, 1981**

Kuroda-yoshi-gai

- Type locality: Kōchi prefecture, southern Shikoku; sandy mud. Taken in lobster nets.
- Distribution: Enshū-nada and westwards to Tosa bay (KURODA & HABE, 1981).
- Habitat: 20-50 m., sandy mud.

□ Genus *Kermadysmea* POWELL, 1958

Type species: *Kermadysmea galathea* POWELL, 1858 (o. d.)

(Refs.: Matsukuma, 1989-b)

**B1050 *K. galathea* (POWELL, 1958)**

Sudare-yoshi-gai

- Type locality: Kermadec islands, northeast of New Zealand.
- Distribution: Okinawa islands and southwards; Philippines, Kermadec islands.
- Notes:** has also been recorded as a fossil from Kikai island, off Amami Ōshima.

□ Genus *Psammobia* LAMARCK, 1818 in 1815-22

Type species: *Tellina fervensis* GMELIN, 1791 (s. d. CHILDREN, 1822)

**B1051 *P. radiata* DUNKER in PHILIPPI, 1845 in 1842-51**

(= *P. amethystus* REEVE, 1856 in 1843-65)

Mikihari-masuhō

- Type locality: Indonesia (Java and Ambon island).
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (J1), EC5, East China Sea; South China Sea, China, Philippines, Thailand, Indonesia, southeast Asia, Nicobar islands (Indian Ocean), Indo-Pacific.
- Habitat: intertidal to 10 m., sand.

□ Genus *Gobraeus* BROWN, 1844

Type species: *Solen vespertinus* GMELIN, 1791 (mt.; =

*Tellina depressa* PENNANT, 1777)

(= *Psammocola* 'BLAINVILLE' auct. non BLAINVILLE, 1824)

**B1052 *G. katusensis* (YOKOYAMA, 1922)**

Ezo-masuhō

- Type locality: Kazusa and Shimosa (near Tōkyō) (fossil).
- Distribution: Kashima-nada (off Ibaraki prefecture, central Honshū ŌYAMA, 1973) and northwards, Iwate prefecture (Ōtsuchi bay TSUCHIDA & KUROZUMI, 1995-a), P9-P10, Hokkaidō, OP, Kuril islands, Okhotsk Sea; eastern Korea, Kamchatka, Yellow Sea, Bo-hai, Primoriye region (Japan Sea coast of Russia).
- Habitat: intertidal, coarse sand and stones; mud.
- Original genus: *Psammobia*.

□ Genus *Dysmea* DALL, BARTSCH & REHDER, 1938

Type species: *Solen occidens* GMELIN, 1791 (o. d.) (Refs.: Matsukuma, 1989-b)

**B1053 *D. occidens* (GMELIN, 1791)**

Yukizora-masuhō

- Type locality: none designated.
- Distribution: Okinawa islands and southwards, P2; Philippines, Australia, New Caledonia, Hawaii.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Solen*.

**B1054 *D. oriens* (DESHAYES, 1855-c)**

Hanayaka-masuhō

- Type locality: 'Sea of Japan'.
- Distribution: Okinoshima (southwestern Shikoku) and southwards; Philippines, Tonga, Australia, tropical Pacific.
- Habitat: intertidal to 30 m., sand.
- Original genus: *Psammobia*.

□ Genus *Psammotaea* LAMARCK, 1818 in 1815-22

Type species: *Psammotaea donacina* LAMARCK, 1818 (s. d. CHILDREN, 1823)

**B1055 *Psammotaea elongata* (LAMARCK, 1818 in 1815-22)**

(= *Psammobia violacea* LAMARCK, 1818 in 1815-22)

Masuhō-gai (= Asago-masuhō)

- Type locality: 'la mer Rouge' (Red Sea).
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hainan, Moluccas, Indonesia, Australia, Indo-Pacific.
- Habitat: intertidal, mud, in bays.
- Original genus: *Psammobia*.

**B1056 *Psammotaea virescens* (DESHAYES, 1855-c)**

(= *Capsa tenuis* DESHAYES, 1855-c; *Soletellina moesta* LISCHKE, 1872)

Ochiba-gai (= Ko-murasaki-gai)

- Type locality: none designated.
- Distribution: Tōkyō bay (KURODA & HABE, 1981) and southwards, P6-P5, Seto inland sea, Japan Sea (Noto peninsula, J2-J1), EC5, East China Sea; China, Taiwan, western Pacific.
- Habitat: intertidal, mud, in bays.
- Original genus: *Capsa* (*Capsella*).

B1057 *Psammotaea minor* (DESHAYES, 1855-c)

Hazakura-gai

- Type locality: 'Philippines, Manilla'.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Seto inland sea, Japan Sea (Noto peninsula, J2-J1), EC5, East China Sea; South China Sea, Philippines, Hainan, western Pacific.
- Habitat: intertidal, mud, in bays.
- Original genus: *Capsa* (*Capsella*).

□ Genus *Asaphis* MODEER, 1793

Type species: *Venus deflorata* LINNAEUS, 1758 (mt.) (= *Capsa* BRUGUIÈRE, 1797 in 1791-1797; *Corbula* RÖDING, 1798 non BRUGUIÈRE, 1797 in 1791-1797; *Capsula* SCHUMACHER, 1817; *Acaphis* PAETEL, 1875 nom. null.)

B1058 *A. violascens* (FORSKÅL, 1775)

(= *Venus deflorata* auct. non LINNAEUS, 1758, nec REEVE, 1856; *Tellina anomala* BORN, 1778; *Cochlea concinna* MARTYN, 1792; *Venus versicolor* GMELIN, 1791; *V. purpurata* GMELIN, 1791; *Capsa rugosa* LAMARCK, 1801)

Ryūkyū-masuhō

- Type locality: '*Littora Maris Rubri*' (shores of the Red Sea); 'Sués; Djiddae; Mocchae' (Suez, Jeddah and Mocha; from article title).
- Distribution: Sagami bay and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, South China Sea, Beibu gulf, Moluccas, Australia, Indo-western Pacific, Red Sea.
- Habitat: intertidal, coarse sand and stones.
- Original genus: *Venus*.

B1059 *A. dichotoma* (ANTON, 1838)

(= *Tellina anomala* SCHRÖTER, 1788 non BORN, 1778; *Venus deflorata* var. GMELIN, 1791; *V. sanguinolaria* var. LAMARCK, 1818 in 1815-22; *Capsa deflorata* REEVE, 1856 non LINNAEUS, 1758)

Nise-ryūkyū-masuhō

- Type locality: 'Ostindien' (East Indies).
- Distribution: Kii peninsula (KURODA & HABE, 1981) to Okinawa; Taiwan, Philippines, South China Sea, China (Hainan; Beibu gulf; Hong Kong), Malaysia, Thailand, Indonesia, Indian Ocean (BERNARD *et al.*, 1993).
- Habitat: intertidal, coarse sand.

- Original genus: *Sanguinolaria*.

□ Genus *Heteroglypta* MARTENS, 1880

Type species: *Psammobia contraria* DESHAYES, 1863 (mt.)

B1060 *H. contraria* (DESHAYES, 1863)

(= *H. nipponica* KURODA, 1934)

Uchi-tomi-gai

- Type locality: Réunion island, Indian Ocean.
- Distribution: Sagami bay (KURODA & HABE, 1981) and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, South China Sea, Indonesia, Indo-western Pacific.
- Habitat: intertidal to 10 m., boring in soft coral and sandstone.
- Original genus: *Psammobia*.

Subfamily SANGUINOLARIINAE GRANT & GALE, 1931

□ Genus *Soletellina* BLAINVILLE, 1824 in 1816-30

Type species: *Soletellina radiata* (mt.; = *Solen diphos* LINNAEUS, 1771)

B1061 *S. diphos* (LINNAEUS, 1771)

(= *Solen violaceus* LAMARCK, 1818 in 1815-22 non LIGHTFOOT, 1786; *Soletellina radiata* BLAINVILLE, 1824; *Solet. cumingiana* REEVE, 1857; *Solet. adamsii* DESHAYES in REEVE, 1857)

Murasaki-gai (= Asagao-masuhō)

- Type locality: '*in India*'.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), East China Sea; China (Hong Kong; Hainan; Beibu gulf), Taiwan, South China Sea, Philippines, Indonesia, Indo-western Pacific.
- Habitat: intertidal to 30 m., mud and sand.
- Original genus: *Solen*.

B1062 *S. atrata* DESHAYES in REEVE, 1857 in 1843-65

(= *Hiatula atrata* REEVE *sensu* HABE & KOSUGE, 1971)

Akebono-kinuta

- Type locality: Philippines.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Seto inland sea, Japan Sea (J1), EC5, East China Sea; South China Sea, China, Hainan, Philippines, Moluccas, Indonesia, Australia.
- Habitat: 30-100 m., fine sand and mud.

B1063 *S. boeddinghausi* LISCHKE, 1870 in 1868-73

Fuji-nami-gai

- Type locality: 'Nagasaki' (western Kyūshū).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea; China (Zhejiang).

- Habitat: intertidal to 50 m., fine sand.

**B1064 *S. chinensis* (DESHAYES, 1855-c)**

Taiwan-kinuta

- Type locality: 'Chinese Seas'.
- Distribution: P2; Taiwan and southwards, Philippines, southern China, Hainan, southeast Asia.
- Habitat: intertidal, sand.
- Original genus: *Capsa* (*Capsella*).

**B1065 *S. rostrata* (LIGHTFOOT, 1786)**

(= *Sanguinolaria acuminata* REEVE, 1857)

Fuji-murasaki

- Type locality: 'Asia'.
- Distribution: P2; Taiwan and southwards, Philippines, southeast Asia.
- Habitat: intertidal, sandy mud.
- Original genus: *Lobaria*.

□ Genus *Psammotellina* FISCHER, 1887

Type species: *Psammotella ambigua* REEVE, 1857 (mt.)

**B1066 *P. ambigua* (REEVE, 1857 in 1843-65)**

(= *Psammotella subradiata* DESHAYES in REEVE, 1857 in 1843-65)

Taiwan-masuhō

- Type locality: Philippines.
- Distribution: P2; Taiwan and southwards, Philippines, South China Sea, Hainan, southeast Asia.
- Habitat: intertidal, sandy mud.
- Original genus: *Psamatella*.

□ Genus *Nuttallia* DALL, 1898-b

Type species: *Sanguinolaria nuttalli* CONRAD, 1837 (o. d.)

(= *Nuttalina* CLARK, 1925 *err. pro -llia*).

**B1067 *N. japonica* (DESHAYES in REEVE, 1857 in 1843-65)**

(= *Soletellina olivacea* JAY *sensu* LISCHKE, 1874 *non Psammobia olivacea* JAY, 1856)

Iso-shijimi

- Type locality: Japan.
- Distribution: southern Hokkaidō and southwards, Tsugaru peninsula, P10-P5, J5-J1, EC5, southern Kuril islands; Sakhalin, Korea, China, Yellow Sea, Bo-hai.
- Habitat: intertidal to 10 m., sandy mud.
- Original genus: *Soletellina*.

**B1068 *N. olivacea* (JAY, 1856)**

(= *Soletellina obscurata* DESHAYES *sensu* REEVE, 1857 in 1843-65 *non* DESHAYES, 1853; *N. solida* KIRA, 1953)

Wasure-iso-shijimi (= Atsu-iso-shijimi)

- Type locality: Tōkyō bay.
- Distribution: Ōtsuchi bay (Iwate prefecture TSUCHIDA & KUROSUMI, 1995-a) and southwards, P7-P5, Seto

inland sea, EC5; Yellow Sea, Bo-hai.

- Habitat: intertidal to 10 m., sandy mud.
- Original genus: *Psammobia*.

**B1069 *N. ezonis* KURODA & HABA in HABA, 1955-a**  
(= *Soletellina (Nuttalia) nuttalli sensu* HABA, 1951-a *non* CONRAD, 1837-a)

Ezo-iso-shijimi

- Type locality: Nemuro, Hokkaidō; 5 m., mud.
- Distribution: Ōtsuchi bay (Iwate prefecture TSUCHIDA & KUROSUMI, 1995-a), and northwards, P10, OP, Japan Sea (Oga peninsula, J4-J5); Primoriye region (Japan Sea coast of Russia), Sakhalin, eastern Korea.
- Habitat: intertidal, sandy mud.

**B1070 *N. commoda* (YOKOYAMA, 1925)**

(= *Soletellina (Nuttalina) petri* BARTSCH, 1929)

Naga-iso-shijimi

- Type locality: Joban coal field, central Honshū (fossil).
- Distribution: Japan Sea, Hokkaidō and northwards, P10, OP, Kuril islands, Okhotsk Sea; Primoriye region (Japan Sea coast of Russia).
- Habitat: intertidal to 20 m., fine sand.
- Original genus: *Psammobia*.

Family SOLECURTIDAE D'ORBIGNY, 1846

□ Genus *Solecurtus* BLAINVILLE, 1824 in 1816-30

Type species: *Solen strigillatus* LINNAEUS, 1758 (s. d. DESHAYES, 1829)

(= *Psammosolen* RISSO, 1826; *Macha* OKEN, 1835; *Silex* QUOY & GAIMARD, 1835; *Adasius* LEACH in GRAY, 1852; *Solecurtellus* GHOSH, 1920; *Solenicurtus*, *Solencurtus*, *Solenocurtis* *auct.*)

**B1071 *S. divaricatus* (LISCHKE, 1869 in 1868-73)**

(= *S. leone* WOOLACOTT, 1954; *S. dunkeri* KIRA, 1959) Kinuta-agemaki (= Umamo-agemaki)

- Type locality: 'Nagasaki' (western Kyūshū).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Ōsaka bay (OKAMURA & KOJIMA, 1984), Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea; southern Yellow Sea, China (Shangdong), South China Sea, Taiwan, western Pacific.
- Habitat: subtidal to 135m, fine sand and mud.
- Original genus: *Macha*.

**B1072 *S. consimilis* KURODA & HABA in HABA, 1961-a**

Tsuya-kinuta-agemaki

Typelocality: Enshū-nada off Isshiki, Aichi prefecture, central Honshū; 20-50 m., fine sandy mud.

- Distribution: Bōsō peninsula (KURODA & HABA, 1981) and southwards, P7-P5, EC5, East China Sea; Taiwan.
- Habitat: 10-50 m., sand and mud.

**B1073 *S. wilsoni* (TRYON, 1870)**

Usu-kinuta-agemaki

- Type locality: 'China'.
- Distribution: Enshū-nada (KURODA & HABE, 1981) and southwards, P6-P5, western Kyūshū and southwards, East China Sea.
- Habitat: 5-30 m., sandy mud.
- Original genus: *Macha*.

B1074 *S. sagamiensis* KURODA & HABE in KURODA *et al.*, 1971

Yawara-kinuta-agemaki

- Type locality: Sagami bay, central Honshū.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and westwards, P7-P5, Japan Sea (Wakasa bay, J2-J1), EC5.
- Habitat: 50-300 m., sand.

B1075 *S. rhombus* (SPENGLER, 1794)

Shiro-kinuta-agemaki

- Distribution: Kii peninsula and southwards, Wakasa bay, P5, J2-J1, EC5, ECP4-ECP2, P2, East China Sea; South China Sea, Hainan, tropical western Pacific.
- Habitat: intertidal to 100 m., sand.
- Original genus: *Solen*.

B1076 *S. debilis* GOULD, 1861 in 1859-61

- Type locality: Port Lloyd (Futami harbour) Ogasawara islands, and 'Loo Choo' (Okinawa).
- Distribution: recorded only from type localities.

□ Genus *Azorinus* RÉCLUZ, 1869

Type species: *Solen coarctatus* GMELIN, 1791 (mt.; = *Solen chamasolen* DA COSTA, 1778) (= *Azor* LEACH in BROWN, 1844 non SOWERBY, 1824; *Zozia* WINCKWORTH, 1930)

B1077 *A. chamasolen* DA COSTA, 1778

(= *Solen coarctatus* GMELIN, 1791; *S. constrictus* BRUGUIÈRE, 1792 in 1789-1816; *S. emarginatus* SPENGLER, 1794; *Azor oblongus* DUNKER, 1861; *Macha minutus* DUNKER, 1862; *Azor solidus* DUNKER, 1861; *Solecurtus abbreviatus* GOULD, 1861; *Novaculina andamanensis* PRESTON, 1908)

Zunguri-agemaki (= Hoso-zunguri-agemaki)

- Distribution: Ōtsuchi bay (Iwate prefecture TSUCHIDA & KUROSUMI, 1995-a) and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea, China (Hong Kong; Beibu gulf; Hainan), South China Sea, Indo-Pacific.
- Habitat: 10-120 m., sandy mud.
- Original genus: *Solen*.

B1078 *A. scheepmakeri* (DUNKER, 1852 in 1852-53)

Ō-zunguri-agemaki

- Type locality: 'ignota' (unknown).
- Distribution: P2; Taiwan and southwards, South China Sea, Hainan, Philippines, Indonesia, southeast Asia.

- Habitat: intertidal to 20 m., soft mud.

- Original genus: *Macha*.

Family **DONACIDAE FLEMING, 1828**

(Refs: Habe, 1951-g)

□ Genus *Donax* LINNAEUS, 1758

Type species: *Donax rugosa* LINNAEUS, 1758 (s. d. SCHUMACHER, 1871)

(= *Donaciarius* DUMÉRIL, 1806; *Donactis* SCHLOTHEIM, 1813; *Donacina* FÉRUSAC, 1821 *nom. nud.*)

Subgenus *Chion* SCOPOLI, 1777

Type species: *Donax denticulata* LINNAEUS, 1758 (mt.)

B1079 *D. (C.) dysoni* DESHAYES, 1855-c

(= *Chion semigranosus tropicus* SCARLATO, 1965) Taiwan-fuji-no-hana

- Type locality: 'Indian Ocean'.
- Distribution: southern Kyūshū and southwards, ECP4, P2, East China Sea; Taiwan and southwards, Hainan, Hong Kong, southeast Asia.
- Habitat: intertidal in sand.

B1080 *D. (C.) semigranosus* DUNKER, 1877

(= *D. proximus* BERTIN, 1881; *D. introradiatus* YOKOYAMA, 1922)

Fuji-no-hana-gai

- Type locality: Japan.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Taiwan, Hainan, Hong Kong, southern China, Indian Ocean, western Pacific.
- Habitat: intertidal to 20 m., sand.

B1081 *D. (C.) ticaonicus* HANLEY, 1845-c

Kusabi-naminoko

- Type locality: 'Ticao, Philippines'.
- Distribution: East China Sea, P2; Taiwan and southwards, South China Sea, Philippines, western Pacific.
- Habitat: intertidal in sand.

Subgenus *Tentidonax* IREDALE, 1930-b

Type species: *Donax veruinus* HEDLEY, 1913 (o. d.)

B1082 *D. (T.) kiusiuensis* PILSBRY, 1901-a

(= *D. paululus* YOKOYAMA, 1927; *Tellina trigonoides* GRABAU & KING, 1928)

Kyūshū-naminoko

- Type locality: 'Hirado, Hizen' (Hirado island, Nagasaki prefecture, western Kyūshū).
- Distribution: southern Hokkaidō (KURODA & HABE, 1981) and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5, P2; Yellow Sea, Bo-hai, China.
- Habitat: intertidal to 10 m., sand.

Subgenus *Latona* SCHUMACHER, 1817

Type species: *Donax cuneatus* LINNAEUS, 1758 (mt.)

**B1083 *D. (L.) cuneatus* LINNAEUS, 1758**

(= *D. bicolor* GMELIN, 1791; *Ratona variabilis* SCHUMACHER, 1817; *D. granosa* LAMARCK, 1818 in 1815-22; *D. bicolor* LAMARCK, 1818 in 1815-22; *D. australis* LAMARCK, 1818 in 1815-22; *D. obscura* DESHAYES, 1831)

Naminoko-gai

- Type locality: none designated.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hong Kong, Hainan, Thailand, Indonesia, Indo-Pacific.
- Habitat: intertidal, sand.

**B1084 *D. (L.) faba* GMELIN, 1791**

(= *D. radiata* SCHRÖTER, 1786; *D. radians* LAMARCK, 1818 in 1815-22; *D. deshayesii* DUNKER, 1853)

Ryūkyū-naminoko

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2, East China Sea; Philippines, Hainan, Hong Kong, South China Sea, Thailand, Indonesia, Indo-Pacific.
- Habitat: intertidal in sand.

Superfamily **ARCTICOIDEA NEWTON, 1891**

Family **KELLIPELLIDAE FISCHER, 1887**

□ Genus ***Kelliella* M. SARS, 1870**

Type species: *Kelliella abyssicola* M. SARS, 1870 (mt.; = *Venus miliaris* PHILIPPI, 1844)

**B1085 *K. japonica* HAYAMI & KASE, 1993**

Maru-keshi-hamaguri

- Type locality: sediments in 'Shō-dōkutsu' cave, Ie island, Okinawa.
- Distribution: Ryūkyū islands (Ie; Shimoji).
- Habitat: subtidal, in caves.

□ Genus ***Alveinus* CONRAD, 1865**

Type species: *Alveinus minutus* CONRAD, 1865 (mt.)

**B1086 *A. ojanus* (YOKOYAMA, 1927)**

Keshi-tori-gai

- Type locality: Ōji, Kita-ku, Tōkyō City (fossil).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Seto inland sea, Japan Sea (Sado island, J3-J1), EC5; Yellow Sea, China (Shandong).
- Habitat: subtidal to 150 m., sandy mud.
- Original genus: *Kellia*.

Family **TRAPEZIIDAE LAMY, 1920**

□ Genus ***Trapezium* MÜHLFELD, 1811**

Type species: *Trapezium perfectum* MÜHLFELD, 1811 (s. d. STEWART, 1930; = *Chama oblonga* LINNAEUS,

1758)

(= *Libitina* SCHUMACHER, 1817; *Cypricardia* LAMARCK, 1819 in 1815-22)

Subgenus ***Trapezium* s. str.**

(Refs.: Ōyama, 1994)

**B1087 *T. (T.) oblongum* (LINNAEUS, 1758)**

(= *Cardita carinata* BRUGUIÈRE, 1792 in 1789-1816; *Cypricardia guinaica* LAMARCK, 1819 in 1815-22; *Trapezium perfectum* MÜHLFELD, 1811)

Suehiro-funa-gata-gai

- Type locality: none designated.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; South China Sea, Red Sea, Indo-Pacific.
- Habitat: intertidal to 20 m., rocks and sand.
- Original genus: *Chama*.

**B1088 *T. (T.) bicarinatum* (SCHUMACHER, 1817)**

(= *Cypricardia angulata* LAMARCK, 1818 in 1815-22; *C. rostrata* LAMARCK, 1819 in 1815-22; *Chama angulata* WOOD, 1828 in 1818-28 *non Cardium angulatum* LAMARCK, 1819 in 1815-22; *Cypricardia corrugata* MIGHELS, 1844; *C. dolosa* DESHAYES, 1863)

Funa-gata-gai

- Type locality: none designated.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, South China Sea, Australia, Red Sea, Indo-Pacific.
- Habitat: intertidal to 20 m., attached by byssus to rocks and stones.
- Original genus: *Libitina*.

**B1089 *T. (T.) sowerbyi* (HIDALGO, 1903)**

Kazari-funa-gata-gai

- Type locality: Philippines.
- Distribution: Ogasawara islands (Chichijima NISHIMURA, 1995), southern Kyūshū and southwards, ECP4-ECP2, P2; Philippines, South China Sea, Indo-western Pacific.
- Habitat: intertidal to 20 m., rocks.
- Original genus: *Cypricardia*.

Subgenus ***Neotrapezium* HABE, 1951-a**

Type species: *Cardita sublaevigata* LAMARCK, 1819 (o. d.)

**B1090 *T. (N.) sublaevigatum* (LAMARCK, 1819 in 1815-22)**

(= *Cypricardia vellicata* REEVE, 1843; *C. solenoides* REEVE, 1843; *Cardita sinuosa* POTIEZ & MICHAUD, 1844)

Tagasode-modoki

- Type locality: none designated.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981)



and southwards, P7-P5, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5, ECP4-ECP2, P2; Philippines, Hong Kong, South China Sea, Australia, Indo-Pacific.

- Habitat: intertidal, attached by byssus to rocks and stones.
- Original genus: *Cardita*.

B1091 *T. (N.) liratum* (REEVE, 1843 in 1843-65)  
(= *T. japonicum* PILSBRY, 1905; *T. japonicum delicatum* PILSBRY, 1905; *T. nipponicum* YOKOYAMA, 1922; *T. ventricosum* YOKOYAMA, 1922)

Une-nashi-tomaya-gai

- Type locality: none designated.
- Distribution: northern Honshū (Tsugaru peninsula) and southwards, P10-P5, Seto inland sea, Japan Sea (Shimokita peninsula, J4-J1), EC5, East China Sea, P2; Yellow Sea, Bo-hai, China, South China Sea, Indo-Pacific.
- Habitat: intertidal to 10 m., attached by byssus to rocks and stones.

□ Genus *Glossocardia* STOLICZKA, 1870 in 1870-71

Type species: *Cypricardia obesa* REEVE, 1843 (o. d.)  
(Refs.: Matsukuma & Habe, 1995)

B1092 *G. obesa* (REEVE, 1843 in 1843-65)

Tsuki-yomi-gai

- Type locality: none designated.
- Distribution: Okinawa islands (Irabujima and Ieshima, in cave sediments HAYAMI & KASE, 1993 and others) and southwards, ECP2, P2; Philippines, South China Sea, Indonesia, Australia, New Caledonia.
- Habitat: intertidal to 50 m., sand.
- Original genus: *Cypricardia*.

B1093 *G. stoliczkan* PRASHAD, 1932

Mikado-tsuki-yomi-gai

- Type locality: 'Siboga' sta. 97, southern Sulu Sea off Pangutaran Island, Philippines: 05° 48.7' N., 119° 49.6' E., 564 m.
- Distribution: southern Kyūshū (off Yakushima, 95-98 m.; Hira-se bank, 160-162 m.), Okinawa (between Itoman and Kerama islands, 70 m.) (TSUCHIDA & TANAKA, 1994); Philippines.

□ Genus *Coralliophaga* BLAINVILLE, 1824 in 1816-30

Type species: *Coralliophaga carditoidea* BLAINVILLE, 1824 (mt.; = *Chama coralliophaga* GMELIN, 1791)

B1094 *C. coralliophaga* (GMELIN, 1791)

(= *Cardita dactylus* BRUGUIÈRE, 1792 in 1789-1816; *Coralliophaga carditoidea* BLAINVILLE, 1824 in 1816-30; *Cypricardia laminata* REEVE, 1843 in 1843-65; *Cypricardia spatulata* SOUVERBIE, 1862; *Coralliophaga striolata* H. ADAMS, 1870)  
Tagasode-gai (= Sango-kui)

- Type locality: none designated.
- Distribution: northern Honshū (Mutsu bay KURODA & HABE, 1981) and southwards, P9-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea; South China Sea, Hong Kong, Hainan, Indo-western Pacific, 'North Carolina to Texas; West Indies, Bermuda, Brazil, Monterey, California to Peru' (ABBOTT, 1974).
- Habitat: intertidal to 20 m., boring in hard coral.
- Original genus: *Chama*.

B1095 *C. hyalina* HAYAMI & KASE, 1995

Garasu-matsukaze-gai

- Type locality: sediments in 'Devil's Palace' cave, Shimoji island, Miyako group (Okinawa prefecture).
- Distribution: Ryūkyū islands (Shimoji; Ie; Irabu); Philippines ('Balicasag cave', Panglao, Bohol), Palau ('Chandelier cave' near Kolor).
- Habitat: subtidal in caves.

Family VESICOMYIDAE DALL & SIMPSON, 1901

□ Genus *Vesicomya* DALL, 1886

Type species: *Callocardia atlantica* E. A. SMITH, 1885 (o. d.)  
(Refs.: Habe, 1952-d; Iw. Taki & Habe, 1955-a)

B1096 *V. sergeevi* FILATOVA, 1958

Serugei-ryūgū-hamaguri

- Type locality: taken by R. V. 'Vityaz', off eastern Honshū, 6090-9345 m.
- Distribution: recorded only from type locality.

B1097 *V. profund* FILATOVA, 1958

Shinkai-ryūgū-hamaguri

- Type locality: taken by R. V. 'Vityaz', off eastern Honshū, 7246-9050 m.
- Distribution: recorded only from type locality.

B1098 *V. indica* E. A. SMITH, 1904-a

Shintei-otohime-hamaguri

- Type locality: 'Off Travancore coast, 360 fms. (southern India); off Andamans (islands, Indian Ocean), 405 fms'.
- Distribution: southern Shikoku (off Kōchi prefecture, 1916-1948 m. TSUCHIDA, 1994-b); Indian Ocean
- Habitat: bathyal, in mud and silt.

□ Genus *Waisiuconcha* BEETS, 1942

Type species: *Waisiuconcha alberdinae* BEETS, 1942 (o. d.)

B1099 *W. katsuae* (KURODA, 1952-a)

Otohime-hamaguri

- Type locality: off Kannoura, Kōchi prefecture (Tosa bay, southern Shikoku), 100 fms.
- Distribution: Sagami bay (OKUTANI, 1962; 1966; 1968), Suruga bay and southwards, Kii peninsula (Kashima-nada OKUTANI, 1962), Tosa bay, southeastern Kyūshū (off

Toi-saki (cape) HABE, 1958-b).

- Habitat: 100-1400 m., sandy mud.
- Original genus: *Vesicomya*.

**B1100 *W. nakaii* (OKUTANI, 1962)**

Nakai-otohime-hamaguri

- Type locality: 'Sōyō-Maru' sta. 72, 50 miles off Kushikino, southwestern Kyūshū: 31° 31.0' N., 129° 21.0' E., 730-760 m.
- Distribution: Mie prefecture (off Owase, eastern Kii peninsula MATSUMOTO, 1979), type locality.
- Habitat: 200-400 m., sand.
- Original genus: *Vesicomya*.

**B1101 *W. surugensis* HABE, 1976-a**

Mame-otohime-hamaguri

- Type locality: Suruga bay, central Honshū; 290-480 m.
- Distribution: recorded only from type locality.

□ Genus *Callogonia* DALL, 1889

Type species: *Callocardia* (*Callogonia*) *leana* DALL, 1889 (o. d.)

**B1102 *C. hayashii* HABE, 1976-a**

Urashima-hamaguri

- Type locality: off Esuzaki (cape), Kii peninsula (Wakayama prefecture, central Honshū), ± 150 m.
- Distribution: Mie prefecture (off Owase, 200 m. MATSUMOTO, 1979), Kii peninsula.
- Habitat: 100-300 m., sand.

□ Genus *Calyptogena* DALL, 1891

Type species: *Calyptogena pacifica* DALL, 1891 (mt.)

**B1103 *C. pacifica* DALL, 1891**

Watazoko-uri-gai (= Wadatsumi-uri-gai)

- Type locality: 'Albatross' sta. 3077, off Dixon Entrance, Alaska; 322 fms.
- Distribution: Kuril islands and northwards, Okhotsk Sea; Bering Sea, Alaska.
- Habitat: 500-700 m., mud.

**Notes:** this species has been recorded as a fossil from northern Honshū and Hokkaidō (ŌTSUKA, 1937; OTATSUME, 1942).

**B1104 *C. solidissima* OKUTANI, HASHIMOTO & FUJIKURA, 1992**

Ensei-shiro-uri-gai

- Type locality: Minami-Ensei knoll, Okinawa trough: 28° 34.33' N., 127° 38.02' E., 670 m.
- Distribution: recorded only from type locality.

**B1105 *C. soyoae* OKUTANI, 1957-a**

Shiro-uri-gai

- Type locality: 'Sōyō-Maru' sta. 2, 6 miles wsw off Jōgashima, Sagami bay, central Honshū: 35° 05.1' N., 139° 33.3' E., 750 m.

- Distribution: Sagami bay (OKUTANI, 1966).

- Habitat: 700-1400 m., mud.

**B1106 *C. okutanii* KOJIMA & ŌTA, 1997**

Shimai-shiro-uri-gai

- Type locality: off Hatsushima island, Sagami bay, central Honshū: 35° 00' N., 139° 13.80' E., ± 1100 m.
- Distribution: off central Honshū (Okinoyama bank, Sagami bay; Nankai trough), off Okinawa (Iheya ridge; Okinawa trough).

**B1107 *C. nautiliei* OKUTANI & MÉTIVIER, 1986**

Nochiiru-shiro-uri-gai

- Type locality: Tenryu Canyon, off eastern Honshū: 33° 37.2' N., 137° 31.6' E., 3787-3835 m.
- Distribution: type locality and vicinity.

**B1108 *C. nankaiensis* OKUTANI, KOJIMA & ASHI, 1996**

Nankai-shiro-uri-gai

- Type locality: Ryuyo canyon, Nankai trough (south off Aichi prefecture, central Honshū): 34° 11.50' N., 137° 46.00' E., ± 1100 m.
- Distribution: recorded only from type locality.

**B1109 *C. similis* OKUTANI, KOJIMA & ASHI, 1997**

Niyori-shiro-uri-gai

- Type locality: Nankai trough (south off Aichi prefecture, central Honshū): 35° 05.6' - 35° 06.7' N., 138° 07.9' - 138° 06.8' E., 2084 m.
- Distribution: Nankai trough.
- Habitat: ± 2000 m.

**B1110 *C. laubieri* OKUTANI & MÉTIVIER, 1986**

Tenryū-shiro-uri-gai

- Type locality: Tenryu canyon, off eastern Honshū: 33° 37.2' N., 137° 31.6' E., 3787-3835 m.
- Distribution: type locality and vicinity.

**B1111 *C. kaikoi* OKUTANI & MÉTIVIER, 1986**

Kaiko-shiro-uri-gai

- Type locality: Tenryu canyon, off eastern Honshū: 33° 36.9' N., 137° 32.0' E., 3830 m.
- Distribution: type locality and vicinity.

**B1112 *C. phaseoliformis* MÉTIVIER, OKUTANI & ŌTA, 1986**

Naginata-shiro-uri-gai

- Type locality: Japan trench, off eastern Honshū: 35° 54.2' N., 142° 30.7' E., 5640-5695 m.
- Distribution: type locality and other sites in Japan and Kurile troughs.
- Habitat: 5497-5960 m.

**B1113 *C. fausta* OKUTANI, FUJIKURA & HASHIMOTO, 1993**

Suruga-shiro-uri-gai

- Type locality: Suruga bay (12 km west off Toi: 34° 55' N., 138° 39' E., 1489 m.)
- Distribution: recorded only from type locality.

□ Genus *Akebiconcha* KURODA, 1943-b

Type species: *Akebiconcha kawamurai* KURODA, 1943 (mt.)

B1114 *A. kawamurai* KURODA, 1943-b

Akebi-gai

- Type locality: off Odawara, Sagami bay, central Honshū; 180 m.
- Distribution: off Chōshi (Chiba prefecture, central Honshū) and westwards, Sagami bay (OKUTANI, 1962), Kii peninsula (off Kushimoto TSUCHIDA, 1985-a; off Tanabe).
- Habitat: 100-750 m., sandy mud.

Superfamily GLOSSOIDEA GRAY, 1847

Family GLOSSIDAE GRAY, 1847

□ Genus *Meiocardia* H. & A. ADAMS, 1857 in 1853-58

Type species: *Meiocardia 'moltkiana* SPENGLER' (s. d. STOLICZKA, 1870 in 1870-71; = *Chama moltkiana* GMELIN, 1791)

(= *Miocardia* FISCHER, 1887 *nom. null.*)

(Refs.: Matsukuma & Habe, 1995)

B1115 *M. moltkiana* (GMELIN, 1791)

(= *Isocardia lamarekii* REEVE, 1845; *Bucardia (Meiocardia) cumingii* A. ADAMS, 1864-d; *Meiocardia nishimurai* KOSUGE & KASE, 1994)

Tenjiku-kō-hone-gai

- Type locality: none designated.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P11, Ogasawara islands, P7-P5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, western Pacific.
- Habitat: 30-400 m., sand, mud gravel and shell bottoms.
- Original genus: *Chama*.

B1116 *M. sanguineomaculata* (DUNKER, 1882)

(= *Isocardia moltkiana 'variety' sensu* ADAMS & REEVE in 1848-50; *I. moltkiana sensu* REEVE, 1845 in 1843-65 *non* GMELIN, 1791)

Kanoko-shibori-kō-hone

- Type locality: 'at Corea' (ADAMS & REEVE).
- Distribution: Sagami bay and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines to Seychelles.
- Habitat: 30-400 m., sand and mud.
- Original genus: *Isocardia* (as *var. of moltkiana*).

B1117 *M. vulgaris* (REEVE, 1845 in 1843-65)

(= *Isocardia moltkiana* SOWERBY, 1822 *non* GMELIN, 1791; *M. delicata* KOSUGE & KASE, 1994)

Sekitori-kō-hone (= Taoyaka-kō-hone)

- Type locality: 'China'.
- Distribution: Okinawa and southwards, ECP2, P2; Philippines, South China Sea, Moluccas, Australia, Indo-western Pacific.
- Habitat: intertidal to 10 m., mud.
- Original genus: *Isocardia*.

B1118 *M. globosa* MATSUKUMA & HABE, 1995

Taiwan-kō-hone

- Type locality: Taiwan.
- Distribution: P2; Taiwan and southwards, Philippines.

B1119 *M. samarangiae* BERNARD *et al.*, 1995

(= *Isocardia tetragona* ADAMS & REEVE, 1850 in 1848-50 *non* KOCH & DUNKER, 1837)

Kō-hone-gai

- Type locality: 'Japanese Seas'.
- Distribution: Bōsō peninsula and southwards, southwestern Shikoku (Okino-se bank, off Okinoshima TSUCHIDA, 1989), P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, East China Sea, P2; Philippines, South China Sea, central and western Pacific.
- Habitat: 40-200 m., sand.

B1120 *M. hawaiiana* DALL, BARTSCH & REHDER, 1938

(= *M. lamarekii* KIRA, 1954 *non* REEVE, 1845)

Aroha-kō-hone

- Type locality: 'Albatross' sta. 4133, off Kauai, Hawaii, 41-312 fms.
- Distribution: Sagami bay and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, Hawaii.
- Habitat: 30-600 m., sand.

Superfamily VENEROIDEA RAFINESQUE, 1815

Family VENERIDAE RAFINESQUE, 1815

Subfamily VENERINAE RAFINESQUE, 1815

□ Genus *Venus* LINNAEUS, 1758

Type species: *Venus verrucosa* LINNAEUS, 1758 (s. d. GRAY, 1847)

(= *Venusarius* DUMÉRIL, 1805; *Clausina* BROWN, 1827; *Ventricola* RÖMER, 1867)

Subgenus *Venus s. str.*

B1121 *V. (V.) albina* SOWERBY II, 1853 in 1842-87

- Type locality: 'China'.
- Distribution: Honshū to Hainan, East China Sea, South China Sea (BERNARD *et al.*, 1993).
- Habitat: subtidal to 100 m., sand and mud.

Subgenus *Ventricoloidea* SACCO, 1900

Type species: *Cytherea multilamella* LAMARCK, 1818 (o. d.)

B1122 *V. (Ventricoloidea) cassinaeformis* (YOKOYAMA, 1926-f)

(= *V. foveolata* auct. non SOWERBY II, 1853; *Chione cassinaeformis tanta* YOKOYAMA, 1926)

Binosu-gai-modoki

- Type locality: Haibara district, Shizuoka prefecture, central Honshū (fossil).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea.
- Habitat: 30-200 m., sand and coarse sand.
- Original genus: *Chione*.

□ Genus *Globivenus* COEN, 1934

Type species: *Venus effossa* PHILIPPI, 1836 (mt.)

B1123 *G. toreuma* (GOULD, 1850 in 1846-50)

(= *Venus jukesii* DESHAYES, 1853; *V. crebrisulca* SOWERBY, 1853 in 1842-87 non LAMARCK, 1818 in 1815-22; *V. sculpta* DESHAYES, 1853; *V. hawaiiensis* DALL, BARTSCH & REHDER, 1938)

Maru-sudare-gai (= Shikoro-gai)

- Type locality: Mangsi island, Balabac strait, Philippines.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (southern Niigata prefecture, J3-J1), EC5, ECP4-ECP2, East China Sea, P2; South China Sea, Philippines, China (Beibu gulf; Hainan), tropical Pacific.
- Habitat: intertidal to 200 m., sand and gravel.
- Original genus: *Venus*.

□ Genus *Antigona* SCHUMACHER, 1817

Type species: *Antigona lamellaris* SCHUMACHER, 1817 (o. d.)

(= *Omphaloclathrum* MÖRCH, 1853)

B1124 *A. lamellaris* SCHUMACHER, 1817

(= *Venus cancellata* SCHRÖTER, 1788 non LINNAEUS, 1758; *Dosinia lamarckii* GRAY, 1838; *Venus subrostrata* REEVE, 1841 non LAMARCK, 1818 in 1815-22; *V. nodulosa* SOWERBY II, 1853)

Satsuma-asari

- Type locality: none designated.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Shimane prefecture, J2-J1), EC5, East China Sea, P2; South China Sea, China (Beibu gulf; Hainan), Philippines, Red Sea, Australia, Indo-Pacific.
- Habitat: 10-50 m., sand.

□ Genus *Periglypta* JUKES-BROWN, 1914-a

Type species: *Venus puerpera* LINNAEUS, 1771 (o. d.)

(= *Cytherea* RÖDING, 1798 non FABRICIUS, 1794; *Proxichione* IREDALE, 1929; *Tigammona* IREDALE, 1930)

B1125 *P. puerpera* (LINNAEUS, 1771)

(= *Venus reticulata* BORN, 1780 non LINNAEUS, 1758; *V. listeri* HANLEY, 1842; *V. aegrotata* REEVE, 1863)

Nunome-gai

- Type locality: 'in India orientali'.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hainan, Red Sea, Australia, Indo-Pacific.
- Habitat: subtidal to 20 m., sand.
- Original genus: *Venus*.

B1126 *P. lacerata* (HANLEY, 1845-b)

Isasa-megai

- Type locality: 'Moluccas?' (Maluku, Indonesia).
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, EC5; Hainan, South China Sea, tropical Pacific.
- Habitat: intertidal to 50 m., coarse sand.
- Original genus: *Venus*.

B1127 *P. clathrata* (DESHAYES, 1853-a)

Ō-nunome-gai

- Type locality: none designated.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Indo-Pacific.
- Habitat: subtidal to 20 m., sand.
- Original genus: *Venus*.

B1128 *P. reticulata* (LINNAEUS, 1758)

(= *Gafrarium tellina* RÖDING, 1798; *Venus fischeri* RÉCLUZ, 1852; *Periglypta edmondsoni* DALL, BARTSCH & REHDER, 1938)

Ara-nunome

- Type locality: 'in O. Indico' (Indian Ocean).
- Distribution: Izu islands (Hachijō island), P6-P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Red Sea, Indo-Pacific.
- Habitat: intertidal to 30 m., sand and mud.
- Original genus: *Venus*.

B1129 *P. chemnitzii* (HANLEY, 1845-b)

(= *Venus laqueata* SOWERBY, 1851; *V. crista* DESHAYES, 1853 *sensu* KURODA & HABE, 1951; *V. fischeri* auct. non RÉCLUZ, 1852; *Cytherea crispata amicata* PILSBRY, 1904; *Tigammona persimile* IREDALE, 1930; *Antigona langfordi* KURODA, 1945 in 1943-45)

Yoroi-gai (= Higa-no-ko-nunome)

- Type locality: 'San Nicolas, Philippines'.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, China (Hong Kong; Fujian), Indo-Pacific.
- Habitat: subtidal to 20 m., sand.
- Original genus: *Venus*.

B1130 *P. corbis* (LAMARCK, 1818 in 1815-22)

(= *Venus monilifera* SOWERBY II, 1853 in 1842-87)

Juzukake-nunome

- Type locality: 'l'Océan des Grandes-Indes'.
- Distribution: Okinawa island (Onna fishing port; Haebaru fishing port, Gushikawa City KUBO, 1993-a).
- Habitat: 5 m., sandy mud.
- Original genus: *Venus*.

Subfamily **CHIONINAE FRIZZELL, 1936**

□ Genus *Anomalocardia* SCHUMACHER, 1817

Type species: *Venus flexuosa* LINNAEUS, 1767 (o. d.)

(= *Triquetra* BLAINVILLE, 1828; *Cryptogramma* MÖRCH, 1853; *Murcia* RÖMER, 1857 non KOCH, 1835)

Subgenus *Cryptonema* JUKES-BROWN, 1914

(= *Cryptonemella* KURODA & HABE, 1951)

B1131 *A. (C.) producta* KURODA & HABE, 1951-a

(= *Venus impressa* ANTON, 1837 non DES SERRES, 1827)

Taiwan-omoiba

- Distribution: P2, East China Sea; Taiwan and southwards, South China Sea, China (Fujian), southeast Asia.
- Habitat: intertidal, mud, in bays.

Subgenus *Anomalodiscus* DALL, 1902-c

Type species: '*Cytherea squamosa* LAMARCK' (o. d.); = *Venus squamosa* LINNAEUS, 1758)

B1132 *A. (A.) squamosa* (LINNAEUS, 1758)

(= *Venus roemeri* DUNKER, 1860)

Shioya-gai (= Omoiba-gai)

- Type locality: '*in O. Indico*' (Indian Ocean).
- Distribution: Sagami bay and southwards, P6-P5, Seto inland sea, Japan Sea (Shimane prefecture, J2-J1), EC5, P2, East China Sea; Philippines, South China Sea, China (Hong Kong; Hainan; Beibu gulf), western Pacific.
- Habitat: intertidal, mud, in bays.
- Original genus: *Venus*.

□ Genus *Bassina* JUKES-BROWN, 1914

Type species: *Mercenaria paucilamellata* DUNKER, 1858 (o. d., as '*Venus paucilamellata* SOWERBY'; = *Venus pachyphylla* JONAS, 1839)

(Refs.: Matsukuma & Yoosukh, 1988)

B1133 *B. hiraseana* (KURODA, 1930 in 1929-31)

Yume-hamaguri

- Type locality: Yakushima island, off southern Kyūshū.
- Distribution: Kii peninsula and southwards, P5, western Japan Sea (off Tsunoshima and Mishima TSUCHIDA & HORI, 1996), EC5, ECP4, East China Sea.
- Habitat: 20-200 m., fine sand.
- Original genus: *Callanaitis*.

□ Genus *Placamen* IREDALE, 1925

Type species: *Venus placida* PHILIPPI, 1844 (o. d.)

(Refs.: Matsukuma & Yoosukh, 1988)

B1134 *P. isabellina* (PHILIPPI, 1849-b)

Ō-hana-gai

- Type locality: '*Mare Chinensi*' (China Sea).
- Distribution: Okinawa islands and southwards, ECP2, P2, East China Sea; Philippines, South China Sea, China (Hong Kong; Beibu gulf; Hainan), tropical Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Venus*.

**Notes:** name given as '*isabillina*' in article; corrected to '*isabellina*' in index.

B1135 *P. lamellata* (RÖDING, 1798)

(= *Venus tiara* DILLWYN, 1817; *thiara* nom. null. auct.; *V. foliacea* PHILIPPI, 1846; *V. alta* SOWERBY II in REEVE, 1853)

Hana-gai

- Type locality: Indonesia.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, East China Sea; South China Sea, Beibu gulf, Hainan, Indonesia, Red Sea, Indo-Pacific.
- Habitat: 10-120 m., fine sand.
- Original genus: *Venus*.

B1136 *P. calophylla* (PHILIPPI, 1836-a)

(= *Venus cancellata* BORN, 1780 non LINNAEUS, 1767; *V. thiara* auct. non *tiara* DILLWYN, 1817; *V. cumingii* SOWERBY II, 1853; *Bassina hayasakai* KOTAKA, 1977; *B. javana* KOTAKA, 1977)

Odori-hana-gai

- Type locality: '*in Mari Chinensi*' (China seas).
- Distribution: southern East China Sea, P2; Taiwan, South China Sea, China (Hong Kong; Beibu gulf; Hainan), Philippines, Malaysia, Indonesia, Red Sea.
- Habitat: intertidal to 100 m., in sand.
- Original genus: *Venus*.

□ Genus *Timoclea* BROWN, 1827

Type species: *Venus ovata* PENNANT, 1777 (mt.)

(= *Pasiphae* LEACH in GRAY, 1852 non LATREILLE, 1819; *Parvivenus* SACCO, 1900; *Vernolpa* IREDALE, 1930)

Subgenus *Glycodonta* COTTON, 1936

Type species: *Venus marica* LINNAEUS, 1758 (o. d.)

B1137 *T. (G.) marica* (LINNAEUS, 1758)

(= *Venus literata* LINNAEUS, 1758; *Leukoma japonica* KIRA, 1954)

Kanoko-asari (= Nishiki-asari; Chijimi-kanoko-asari)

- Type locality: '*in O. Americae*' (American seas; erroneous).
- Distribution: Bōsō peninsula (KURODA & HABE, 1981)

and southwards, P7-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, China, Australia, tropical Pacific.

- Habitat: intertidal to 20 m., sand.
- Original genus: *Venus*.

**B1138 *T. (G.) puellula* (GOULD, 1861 in 1869-61)**

- Type locality: 'Ousima' (Amami Ōshima).
- Distribution: Amami Ōshima (KURODA, 1928-c), 'Pacific coast at 29° N.' (KURODA & HABE, 1952-a).

**Subgenus *Chioneryx* IREDALE, 1924-b**

Type species: *Venus striatissima* SOWERBY, 1853 (mt.; = *Erycina cardioides* LAMARCK, 1818)

**B1139 *T. (C.) micra* (PILSBRY, 1904-c)**

(= *Chione siamensis* LYNGE, 1909)

Hime-kanoko-asari

- Type locality: Hirado island, Nagasaki prefecture, western Kyūshū.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2, East China Sea; South China Sea, Hong Kong, tropical Pacific.
- Habitat: intertidal to 20 m., sandy mud, in bays.
- Original genus: *Chione*.

**B1140 *T. (C.) scabra* (HANLEY, 1845-b)**

(= *Veremolpa ethica* IREDALE, 1930)

Taiwan-hime-kanoko-asari

- Type locality: 'Catbalonga, Philippines'.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, South China Sea, China (Guandong), Indo-Pacific.
- Habitat: 10-40 m., sand and mud.
- Original genus: *Venus*.

**B1141 *T. (C.) costellifera* (ADAMS & REEVE, 1850 in 1848-50)**

(= *Chione hizenensis* PILSBRY, 1904)

Chirimen-kanoko-asari (= Hizen-kanoko-asari)

- Type locality: 'Philippine Archipelago'.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Red Sea, tropical Pacific.
- Habitat: subtidal to 30 m., sand.
- Original genus: *Venus*.

**B1142 *T. (C.) mindanensis* (E. A. SMITH, 1885-a)**

(= *Chione minuta* YOKOYAMA, 1922)

Adeyaka-hime-kanoko-asari (= Watazoko-hime-kanoko-asari)

- Type locality: 'Challenger' sta. 201, west off Mindanao, Philippines: 7° 03' N., 121° 48' E., 82 fms.

- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (central Niigata prefecture, J3-J1), EC5, East China Sea; South China Sea, China (Guandong), Philippines, Indo-Pacific.

- Habitat: 10-350 m., fine sand.

- Original genus: *Venus* (*Chione*).

**B1143 *T. (C.) laevicostata* KURODA, 1960**

Ōgi-kanoko-asari (= Hire-nashi-kanoko-asari)

- Type locality: Amami Ōshima.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5, ECP4-ECP2.
- Habitat: subtidal to 20 m., sand.

□ Genus *Tawera* MARWICK, 1927

Type species: *Venus spissa* DESHAYES, 1835 (o. d.)

**B1144 *T. subnodulosa* (HANLEY, 1845-b)**

Hire-kotori-no-hana-gai

- Type locality: 'San Nicholas, Philippines' (Cebu).
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, South China Sea, China (Beibu gulf; Hainan), Australia.
- Habitat: intertidal to 50 m., sand.
- Original genus: *Venus*.

□ Genus *Mercenaria* SCHUMACHER, 1817

Type species: *Mercenaria violacea* SCHUMACHER, 1817 (by tautonymy; = *Venus mercenaria* LINNAEUS, 1758) (= *Crassivenus* PERKINS, 1869)

**B1145 *M. stimpsoni* (GOULD, 1861 in 1859-61)**

Biinasu-gai

- Type locality: Hakodate, Hokkaidō; 6 fms.
- Distribution: northeastern Honshū (Fukushima prefecture) and northwards, P8-P10, Japan Sea (Wakasa bay, J2-J5), OP, Kuril islands, Okhotsk Sea; Russia (southern Primoriye region ARZAMASTSEV, 1997).
- Habitat: subtidal to 150 m., fine sand.
- Original genus: *Venus* (*Mercenaria*).

□ Genus *Callithaca* DALL, 1902-c

Type species: *Tapes tenerrima* CARPENTER, 1857 (o. d.) (= *Protocallithaca* NOMURA, 1937; *Gallithaca* FISCHER-PIETTE & VUKADINOVIC, 1977 *err. pro Calli-*)

**B1146 *C. adamsi* (REEVE, 1863 in 1843-65)**

Ezo-nunome-asari

- Type locality: 'Japan'.
- Distribution: Kashima-nada (off Ibaraki prefecture) and northwards, P8-P9, Japan Sea (Wakasa bay, J2-J5), Hokkaidō; Sakhalin.
- Habitat: subtidal to 160 m., fine sand.
- Original genus: *Venus*.

□ Genus *Protothaca* DALL, 1902-c

Type species: *Chama thaca* MOLINA, 1782 (o. d.)

Subgenus *Notochione* HERTLEIN & STRONG, 1948

Type species: *Venus columbiensis* SOWERBY I, 1835 (o. d.)

B1147 *P. (Notochione) jedoensis* (LISCHKE, 1874)

(= *Venus hirasei* PILSBRY, 1901)

Oni-asari

- Type locality: 'prope Jedo' (near Tōkyō).
- Distribution: southern Hokkaidō (KURODA & HABE, 1981) and southwards, P6-P5, Japan Sea (Tsugaru peninsula, J4-J1), EC5; Korea, Yellow Sea, China (Shandong).
- Habitat: intertidal to 20 m., coarse sand and stones; mud.
- Original genus: *Venus*.

Subgenus *Novathaca* HABE, 1951-a

Type species: *Chione euglypta* SOWERBY III, 1914 (o. d.)

B1148 *P. (Novathaca) euglypta* (SOWERBY III, 1914)

(= *P. staminea* NOMURA & HATAI, 1935 non CONRAD, 1837-a)

Nunome-asari

- Type locality: Japan.
- Distribution: Suruga bay and northwards, P6-P10, Japan Sea (Noto peninsula, J2-J5), Hokkaidō; Primoriye region (Japan Sea coast of Russia), Sakhalin.
- Habitat: intertidal, sandy mud.
- Original genus: *Venus*.

B1149 *P. (Novathaca) schencki* NOMURA, 1937

Me-oni-asari

- Type locality: Onahama, Fukushima prefecture, northeastern Honshū.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, EC5.
- Habitat: intertidal, in sand and on sandstone.

Subfamily CIRCINAE DALL, 1898

□ Genus *Circe* SCHUMACHER, 1817

Type species: *Circe violacea* SCHUMACHER, 1817 (mt.; = *Venus scripta* LINNAEUS, 1758)

B1150 *C. scripta* (LINNAEUS, 1758)

(= *Cytherea undatina* LAMARCK, 1818 in 1815-22; *Venus stutzeri* DONOVAN, 1824; *Circe violacea* SCHUMACHER, 1817; *C. sugillata* REEVE, 1864 in 1843-65 non JONAS, 1846; *C. trigona* REEVE, 1864 in 1843-51; *C. fulgurata* REEVE, 1864 in 1843-51)  
Shirao-gai

- Type locality: 'in Indiis'.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Seto inland sea, Japan Sea (Noto peninsula, J2-J1), EC5, P2, East China Sea; Philippines, South China Sea, China (Hong Kong; Hainan), Red Sea,

Australia, Indo-Pacific.

- Habitat: intertidal to 20 m., coarse sand.
- Original genus: *Venus*.

B1151 *C. tumefacta* SOWERBY II, 1851 in 1842-87

Taiwan-shirao-gai

- Type locality: South China Sea.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, South China Sea, Hainan, Hong Kong, Australia.
- Habitat: intertidal to 20 m., sand and mud.

B1152 *C. intermedia* REEVE, 1863 in 1843-65

Atsu-shirao-gai

- Type locality: none designated.
- Distribution: Mie prefecture (MATSUMOTO, 1979) and southwards, P6-P5, EC5, East China Sea; Taiwan, Red Sea.
- Habitat: intertidal to 20 m., sand.

B1153 *C. sulcata* GRAY, 1838

(= *Cytherea plebeia* HANLEY, 1844; *C. erythraea* JONAS, 1845; *Circe metcalfei* DESHAYES, 1853; *Cytherea paeta* RÖMER, 1860).

Tomo-shirao-gai

- Type locality: none designated.
- Distribution: Suruga bay (KURODA & HABE, 1981) and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, South China Sea, Hainan, Red Sea, Australia, Indo-Pacific.
- Habitat: intertidal to 20 m., sand and mud.

□ Genus *Microcirce* HABE, 1951-a

Type species: *Meretrix gordonis* YOKOYAMA, 1927 (o. d.; = *Gouldia dilecta* GOULD, 1861)

B1154 *M. dilecta* (GOULD, 1861 in 1859-61)

(= *Meretrix gordonis* YOKOYAMA, 1927)

Mijin-shirao-gai

- Type locality: 'Kagosima' (Kagoshima, southern Kyūshū).
- Distribution: southern Hokkaidō (KURODA & HABE, 1981) and southwards, P10-P5, Japan Sea (north off Sado island, J3-J1), EC5, East China Sea.
- Habitat: 10-300 m., sandy mud.
- Original genus: *Gouldia*.

□ Genus *Laevicirce* HABE, 1951-a

Type species: *Laevicirce soyoae* HABE, 1951 (o. d.)

B1155 *L. soyoae* HABE, 1951-a

Usu-shirao-gai

- Type locality: 'Sōyō-Maru' sta. 475, Tsushima strait: 34° 37' 00" N., 129° 13' 00" E., 192 m., sandy mud, gravel and shell bottom.
- Distribution: Japan Sea (western Niigata prefecture, J3-J1), EC5, East China Sea.
- Habitat: 50-200 m., fine sand, gravel and shell bottoms.

□ Genus *Crenocirce* HABE, 1960-b

Type species: *Dorisca (Crenocirce) picta* HABE, 1960 (o. d.)

**B1156 *C. picta* (HABE, 1960-b)**

Ko-kizami-shirao-gai

- Type locality: Amami Ōshima.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, East China Sea, P2.
- Habitat: 5-20 m., fine sand.
- Original genus: *Dorisca (Crenocirce)*.

□ Genus ***Dorisca* DALL, BARTSCH & REHDER, 1938**

Type species: *Dorisca cookei* DALL, BARTSCH & REHDER, 1938 (o. d.)

**B1157 *D. nana* (MELVILL, 1898)**

(= *Circe salamensis* THIELE & JAECKEL, 1931; *Gafrarium hanzawai* NOMURA & JINBO, 1936

Chigo-shirao-gai

- Type locality: Indian Ocean: 26° 10' N., 52° 50' E., 33 fms.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Wakasa bay, J2-J1), EC5, East China Sea, P2; South China Sea, Indonesia, Thailand, Australia, Indian Ocean.
- Habitat: 20-450 m., sand and mud.
- Original genus: *Circe*.

□ Genus ***Gafrarium* RÖDING, 1798**

Type species: *Venus pectinata* LINNAEUS, 1758 (s. d. DALL, 1902)

(= *Crista* RÖMER, 1857)

**B1158 *G. pectinatum* (LINNAEUS, 1758)**

(= *G. depressum* RÖDING, 1798; *G. cardiodeum* RÖDING, 1798; *G. costatum* RÖDING, 1798; *Cytherea savignyi* JONAS, 1846; *C. menkei* JONAS, 1846)

Hoso-suji-inami-gai

- Type locality: 'in Indiis'.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, China (Hong Kong), South China Sea, Moluccas, Indonesia, Indo-Pacific.
- Habitat: intertidal to 30 m., sand.
- Original genus: *Venus*.

**B1159 *G. tumidum* RÖDING, 1798**

(= *Circe pectinata* auct. non. LINNAEUS, 1758; *G. angulatum* RÖDING, 1798; *Cytherea gibbia* LAMARCK, 1818 in 1815-22; *C. ranella* LAMARCK, 1818 in 1815-22)

Arasuji-keman-gai

- Type locality: 'India'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2, East China Sea; Philippines, South China Sea, Hong Kong, Hainan, Malaysia, Australia, Indo-Pacific.

- Habitat: intertidal to 20 m., coarse sand and stones.

**B1160 *G. dispar* (HOLTEN, 1802)**

(= *V. discors* DILLWYN, 1817; *Cytherea muscaria, pulicaris, mixta, cuneata*, all LAMARCK, 1818 in 1815-22; *Circe transversa* DESHAYES, 1853; *Circe marmorata* REEVE, 1863 in 1843-65)

Inami-gai

- Type locality: none designated.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, China (Beibu gulf; Hainan), Red Sea, Australia, Indo-Pacific.
- Habitat: intertidal to 20 m., coarse sand and gravel.
- Original genus: *Venus*.

**B1161 *G. equivocum* (HOLTEN, 1802)**

Shiwa-hime-inami-gai

- Type locality: none designated.
- Distribution: P2; Taiwan, Philippines, Australia, tropical Pacific.
- Habitat: intertidal to 20 m., coarse sand and gravel.
- Original genus: *Venus*.

**B1162 *G. divaricatum* (GMELIN, 1791)**

(= *Circe aequivoca sensu* SOWERBY, 1851 non DILLWYN, 1817, nec HOLTEN, 1802)

Keman-gai

- Type locality: none designated.
- Distribution: Mie prefecture (off Owase & others MATSUMOTO, 1979) and southwards, P6-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, China (Hong Kong; Beibu gulf; Hainan), Malaysia, Red Sea, tropical Pacific.
- Habitat: intertidal to 20 m., coarse sand and gravel.
- Original genus: *Venus*.

**B1163 *G. yukitai* HABE, 1977-b**

Chirimmen-keman-gai

- Type locality: Naze bay, Amami Ōshima.
- Distribution: Amami Ōshima.
- Habitat: intertidal to 20 m., coarse sand and stones.

Subfamily **PITARINAE STEWART, 1930**

(= LIOCONCHINAE IREDALE & MCMICHAEL, 1962; CALLISTINAE NORDSIECK, 1969)

□ Genus ***Pitar* RÖMER, 1857**

Type species: *Venus tumens* GMELIN, 1791 (mt.)

(= *Caryatis* RÖMER, 1862 non HÜBNER, 1819; *Pitaria* DALL, 1902)

Subgenus ***Pitarina* JUKES-BROWN, 1913**

Type species: *Cytherea citrina* LAMARCK, 1818 (o. d.)

**B1164 *P. (P.) citrinus* (LAMARCK, 1818 in 1815-22)**

(= *Chione striata* GRAY, 1838; *Dione ustulata* REEVE,



1863 in 1843-65)

Yūkage-hamaguri

• Type locality: 'les mers de la Nouvelle-Hollande' (Australia).

• Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, South China Sea, Hong Kong, Hainan, southern coastal China, southeast Asia, Australia.

• Habitat: intertidal to 20 m., sand.

• Original genus: *Cytherea*.

**B1165 *P. (P.) reeveanum* (HIDALGO, 1903)**

(= *Cytherea citrina* auct. non LAMARCK, 1818 in 1815-22)

Remon-hamaguri

• Type locality: Philippines.

• Distribution: Okinawa islands and southwards, ECP2, P2, East China Sea; Philippines, South China Sea, China (Zhejiang), southeast Asia, Australia.

• Habitat: intertidal to 20 m., sand and mud.

• Original genus: *Caryatis*.

**B1166 *P. (P.) subpellucidum* (SOWERBY II, 1851 in 1842-87)**

(= *Dione torresica* REEVE, 1863 in 1843-65)

Otoko-eschi-hamaguri

• Type locality: Philippines.

• Distribution: Amami islands and southwards, ECP3-ECP2, P2, East China Sea; Philippines, South China Sea, Australia.

• Habitat: subtidal to 40 m., sand and mud.

• Original genus: *Cytherea*.

**B1167 *P. (P.) pellucidum* (LAMARCK, 1818 in 1815-22)**

(= *Dione australica* REEVE, 1863 in 1843-65)

Omina-eschi-hamaguri

• Type locality: 'les mers de la Nouvelle Hollande' (Australia).

• Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Australia.

• Habitat: intertidal to 20 m., fine sand.

• Original genus: *Cytherea*.

**B1168 *P. (P.) affinis* (GMELIN, 1791)**

(= *Cytherea laeta* LAMARCK, 1818 in 1815-22; *C. inflata*

SOWERBY II, 1851 in 1842-87; *Pitar variegata*

KURODA & HABE in KURODA *et al.*, 1971)

Murakumo-hamaguri

• Type locality: 'in insula S. Mauriti' (Mauritius).

• Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hong Kong, southeast Asia,

Australia, Pacific.

• Habitat: 30-100 m., coarse sand and stones, shells.

• Original genus: *Venus*.

**B1169 *P. (P.) sulfureum* PILSBRY, 1904-c**

Iō-hamaguri

• Type locality: Fukura (now Tannan district), Awaji island, eastern Seto inland sea.

• Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2; Philippines, South China Sea, Hainan, Australia.

• Habitat: intertidal, mud, in bays.

**B1170 *P. (P.) lineolatum* (SOWERBY II, 1854 in 1842-87)**

Gangi-hamaguri

• Type locality: none designated.

• Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Seto inland sea, Japan Sea (Sado island, J3-J1), EC5, ECP4-ECP2, P2; Philippines, Australia, western Pacific.

• Habitat: intertidal to 70 m., sandy mud among weed.

• Original genus: *Cytherea*.

**B1171 *P. (P.) prora* (CONRAD, 1837-a)**

(= *Cytherea obliquata* HANLEY, 1844)

Kesho-omi-naeshi (= Daruma-hamaguri)

• Type locality: Philippines.

• Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, South China Sea, Australia, Indo-Pacific.

• Habitat: subtidal to 20 m., sand and gravel.

• Original genus: *Cytherea*.

**B1172 *P. (P.) noguchii* HABE, 1958-b**

Shiro-usu-hamaguri

• Type locality: off Hamamatsu, Shizuoka prefecture, central Honshū; 150-200 m.

• Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, EC5, East China Sea, Australia (Queensland LAMPRELL & HEALY, 1998)

• Habitat: 10-200 m., sand.

**Notes:** originally in subgenus *Agriopoma*.

**B1173 *P. (P.) japonicum* KURODA & KAWAMOTO in KAWAMOTO & TANABE, 1956**

Usu-hamaguri

• Type locality: near Yanai City, Yamaguchi prefecture (western Honshū, Seto inland sea).

• Distribution: northeastern Honshū (Fukushima prefecture) and southwards, P8-P5, Seto inland sea, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5, East China Sea.

• Habitat: 5-50 m., sand.

**Notes:** originally in subgenus *Agriopoma*.

**B1174 *P. (P.) nipponicum* KURODA & HABE in KURODA *et al.*, 1971**

Suna-kamuri-hamaguri

- Type locality: Sagami bay, central Honshū.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (central Niigata prefecture, J2-J1), EC5, East China Sea.
- Habitat: 40-200 m., sand.

**B1175 *P. (P.) spoori* LAMPRELL & WHITEHEAD, 1990**

Kurifu-hamaguri

- Type locality: northern Queensland, Australia; 3-17 m., on coral reef.
- Distribution: Okinawa (Onna district: 1.5 km. off Chatani, 8 m. and 1 km. off Kaneku, 6 m. KUBO, 1993-a); Australia.
- Habitat: 3-20 m., fine sand and sandy gravel.

□ Genus *Hyphantosoma* DALL, 1902-c

Type species: *Cytherea carbasea* GUPPY, 1866 (o. d.)

**B1176 *H. limatulum* (SOWERBY II, 1851 in 1842-87)**

Madara-iō-hamaguri

- Type locality: none designated.
- Distribution: Kii peninsula (Wakayama prefecture KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hainan, southeast Asia, Australia.
- Habitat: subtidal to 20 m., sand.
- Original genus: *Cytherea*.

□ Genus *Costellipitar* HABE, 1951-a

Type species: *Caryatis chordata* RÖMER, 1869 (o. d.)

**B1177 *C. chordatum* (RÖMER, 1869 in 1864-1872)**

(= *Pitar fukaurensis* HATAI & NOMURA, 1940)

Chijimi-mame-hamaguri

- Type locality: none designated.
- Distribution: northeastern Honshū (Iwate prefecture KURODA & HABE, 1981) and southwards, P9-P5, Seto inland sea, Japan Sea (northern Niigata prefecture, J3-J1), EC5, East China Sea; Taiwan.
- Habitat: 10-150 m., sand.
- Original genus: *Cytherea*.

**B1178 *C. indecoroides* (YOKOYAMA, 1928)**

Kagami-hamaguri

- Type locality: Taiwan, in oil-fields (fossil).
- Distribution: P2, East China Sea; Taiwan.
- Habitat: subtidal to 50 m., sand and mud.
- Original genus: *Meretrix*.

□ Genus *Lioconcha* MÖRCH, 1853 in 1852-53

Type species: *Venus castrensis* LINNAEUS, 1758 (s. d. STOLICZKA, 1870 in 1870-71)

Subgenus *Lioconcha* s. str.

**B1179 *L. (L.) castrensis* (LINNAEUS, 1758)**

(= *Venus fulminea* RÖDING, 1798; *Cytherea ornata* LAMARCK, 1818 in 1815-22 non *Venus ornata* DILLWYN, 1817)

Maru-omi-naeshi

- Type locality: 'in *O. utriusque Indiae*' (coastal seas of India).
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, South China Sea, Red Sea, Indonesia, Australia, Indo-Pacific.
- Habitat: subtidal to 20 m., coarse sand.
- Original genus: *Venus*.

**B1180 *L. (L.) fastigiata* (SOWERBY II, 1851 in 1842-67)**

Sarasa-gai

- Type locality: Philippines.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, Australia, Indo-Pacific.
- Habitat: subtidal to 20 m., sand.
- Original genus: *Cytherea*.

**B1181 *L. (L.) ornata* (DILLWYN, 1817)**

(= *Cytherea picta* LAMARCK, 1818 in 1815-22)

Murayama-sarasa-gai

- Type locality: 'the coasts of Tranquebar' (southern India, taken from Humphreys), 'Mauritius' (taken from Chemnitz).
- Distribution: Sagami bay (KURODA & HABE, 1981) and southwards, P6-P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hainan, Moluccas, Indonesia, Polynesia, Red Sea, western Pacific.
- Habitat: subtidal to 20 m., sand.
- Original genus: *Venus*.

**B1182 *L. (L.) hieroglyphica* (CONRAD, 1837-a)**

Katakana-omi-naeshi

- Type locality: California, USA.
- Distribution: Amami islands and southwards, ECP3-ECP2; central and western Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Cytherea*.

**B1183 *L. (L.) lorenziana* (DILLWYN, 1817)**

(= *Cytherea hebraea* auct. non LAMARCK, 1818 in 1815-22; *Circe sowerbyi* DESHAYES, 1853)

Cha-iro-sarasa-gai

- Type locality: 'the coasts of Ceylon' (taken from Chemnitz).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2, East China Sea; Philippines, South China Sea, Hainan, tropical western Pacific.

- Habitat: subtidal to 20 m., sandy mud.
- Original genus: *Venus*.

**B1184 *L. (L.) trimaculata* (LAMARCK, 1818 in 1815-22)**

Urajiro-cha-iro-sarasa-gai

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2, East China Sea; Philippines, South China Sea, Malaysia, Indo-western Pacific.
- Habitat: subtidal to 20 m., sand.
- Original genus: *Cytherea*.

Subgenus ***Sulcilioconcha* HABE, 1951-a**

Type species: *Cytherea philippinarum* HANLEY, 1844 (o. d.)

**B1185 *L. (S.) philippinarum* (HANLEY, 1844-b)**

(= *Cytherea mendanae* PHILIPPI, 1851; *Hystericoncha dautzenbergi* PRASHAD, 1932; *Cytherea molengraffi* TESCH, 1920)

Inazuma-sudare (= Narukami-sudare)

- Type locality: 'Philippines'.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2, Philippines, South China Sea, China (Guandong), Indonesia, tropical western Pacific.
- Habitat: subtidal to 40 m., sand.
- Original genus: *Cytherea*.

□ Genus ***Callocardia* A. ADAMS, 1864-d**

Type species: *Callocardia guttata* A. ADAMS, 1864-d (o. d.)

(= *Callocallista* WEAVER, 1916 *nom. null.*)

**B1186 *C. guttata* A. ADAMS, 1864-d**

(= *Cytherea hungerfordi* SOWERBY III, 1888)

Ofuku-hamaguri

- Type locality: 'off Quelpart' (Cheju island, southwestern Korea); 48 fms.
- Distribution: Suruga bay and southwards, P6-P5, Japan Sea (off Mishima, J2-J1), EC5, P2, central East China Sea; South China Sea, Yellow Sea, China (Jiangsu; Zhejiang; Hong Kong).
- Habitat: 100-300 m., fine sand and mud.

**B1187 *C. nipponica* OKUTANI, 1972-a**

Ko-ofuku-hamaguri

- Type locality: Zeni-su bank, Izu islands: 33° 53.0' N., 138° 51.0' E., 132 m.
- Distribution: off Izu islands.
- Habitat: 130-150 m., sand.

□ Genus ***Callista* POLI, 1791**

Type species: *Venus chione* LINNAEUS, 1758 (s. d. MEEK, 1876)

(= *Callistoderma* POLI, 1795; *Chione* GRAY, 1838 *non* MÜHLFELD, 1811; *Chione* LEACH, 1852 *non*

MÜHLFELD, 1811)

Subgenus ***Callista s. str.***

**B1188 *C. (C.) chinensis* (HOLTEN, 1803)**

(= *Venus pacifica* DILLWYN, 1817 *non* RÖDING, 1798; *Chione roscida* GOULD, 1861; *C. festiva* REEVE, 1864)

Matsuyama-wasure

- Type locality: none designated.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea, P2; Korea, South China Sea, Beibu gulf, coastal China.
- Habitat: intertidal to 150 m., sand.
- Original genus: *Venus*.

**B1189 *C. (C.) politissima* KURODA, 1945 in 1943-45**

Nuri-tsuya-hamaguri

- Type locality: off Itoman, southern Okinawa island; 20-50 fms.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, Seto inland sea, EC5, ECP4-ECP2, East China Sea.
- Habitat: 10-100 m., fine sand.

**B1190 *C. (C.) pilsbryi* HABE, 1960-a**

(= *C. pilsbryi amamiensis* HABE, 1960-a)

Ko-matsuyama-wasure (= Amami-ko-matsuyama-wasure)

- Type locality: Tomioka, Amakusa island, western Kyūshū.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Seto inland sea, Japan Sea (J1), EC5, ECP4-ECP2, P2, East China Sea; coastal China.
- Habitat: 10-100 m., fine sand.

**Note:** the shell known as Hana-iro-wasure has been cited as *Venus florida* LAMARCK, 1818 in 1815-22, with distribution given as 'Amami Ōshima' (KURODA, 1928-c) and 'Pacific coast, 0°-31° N'. (KURODA & HABE, 1952-a); the type locality of *V. florida* is 'la Mediteranee, dans le golfe de Tarente' (Gulf of Taranto, southern Italy), and the present authors do not consider this name applicable to material from Japan.

Subgenus ***Ezocallista* KAMADA, 1962**

Type species: *Saxidomus brevisiphonatus* CARPENTER, 1865 (o. d.)

**B1191 *C. (E.) brevisiphonata* (CARPENTER, 1864-a)**

(= *Macrocallista chisimana* PILSBRY, 1905)

Ezo-wasure

- Type locality: 'Vancouver Island' (British Columbia, Canada).
- Distribution: northeastern Honshū (Fukushima prefecture) and northwards, P8-P10, Hokkaidō, OP, Kuril islands, Okhotsk Sea; Primoriye region (Japan Sea coast of Russia), Sakhalin, Bering Sea, Alaska to northwestern USA.

- Habitat: subtidal to 30 m., sand.
- Original genus: *Saxidomus*.

Subgenus ***Costacallista* PALMER, 1927**

Type species: *Venus erycina* LINNAEUS, 1758 (o. d.)

B1192 *C. (C.) erycina* (LINNAEUS, 1758)

(= *Venus spuma* RÖDING, 1798; *V. lilacina* LAMARCK, 1818 in 1815-22; *Cytherea pectoralis* SOWERBY, 1851 non LAMARCK, 1818 in 1815-22; *Dione grata* DESHAYES, 1853)

Fuji-iro-hamaguri

- Type locality: 'in Europa' (erroneous).
- Distribution: Tanegashima & Yakushima and southwards, ECP4-ECP2, P2; Philippines, South China Sea, Hainan, Red Sea, southeast Asia.
- Habitat: subtidal to 20 m., sand.
- Original genus: *Venus*.

Subgenus ***Striacallista* MARWICK, 1938**

Type species: *Cytherea multistriata* SOWERBY II, 1852 (o. d.)

B1193 *C. (S.) phasianella* (DESHAYES, 1853-a)

Hanayaka-wasure

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2, East China Sea; Philippines, Australia, tropical Pacific.
- Habitat: subtidal to 20 m., sand.
- Original genus: *Dione*.

□ Genus ***Saxidomus* CONRAD, 1837-a**

Type species: *Saxidomus nuttalli* CONRAD, 1837 (mt.)

B1194 *S. purpurata* (SOWERBY II, 1852 in 1842-87)

Uchi-murasaki

- Type locality: 'Kurachee, mouth of the Indus' (Karachi, Pakistan).
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (J4-J1), EC5; Korea, Yellow Sea, Bo-hai, coastal China, Indian Ocean.
- Habitat: intertidal to 40 m., sandy mud and gravel.
- Original genus: *Tapes*.

Subfamily **SAMARANGIINAE KEEN, 1969**

□ Genus ***Samarangia* DALL, 1902-c**

Type species: *Venus quadrangularis* ADAMS & REEVE, 1850 (o. d.)

(= *Smarangia* COSSMANN, 1903 *err. pro Sama-*; *Petroderma* KURODA, 1945 in 1943-45)

B1195 *S. quadrangularis* (ADAMS & REEVE, 1850 in 1848-50)

(= *Petroderma thanumi* KURODA, 1945 in 1943-45) Kongō-hamaguri

- Type locality: 'Corean Archipelago' (Korea).

- Distribution: Kii peninsula (Wakayama prefecture KURODA & HABE, 1981) and southwards, P5, Japan Sea (Korea strait, J1), EC5, ECP4-ECP2, East China Sea, P2; South China Sea, Philippines, Hainan.

- Habitat: 10-30 m., in coral sand.
- Original genus: *Venus*.

Subfamily **DOSINIINAE DESHAYES, 1853**

□ Genus ***Dosinia* SCOPOLI, 1777**

Type species: *Chama dosin* ADANSON, 1757 (mt.; = *Venus concentrica* BORN, 1778)

(= *Dosinidia* DALL, 1902; *Fallartemis*, *Meridosinia*, *Semelartemis*, all IREDALE, 1930)

B1196 *D. caerulea* (REEVE, 1850 in 1843-65)

(= *Artemis serica* REEVE, 1850 in 1843-65; *D. coryne* A. ADAMS, 1856-b; *D. cydippe* A. ADAMS, 1856-a; *D. diana* A. ADAMS & ANGAS, 1864-a)

Hina-kagami-gai

- Type locality: Philippines.
- Distribution: Atsumi peninsula (Aichi prefecture) and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, South China Sea, Australia.
- Habitat: 10-30 m., sand and mud.
- Original genus: *Artemis*.

□ Genus ***Dosinorbis* DALL, 1902-c**

Type species: *Artemis bilunulata* GRAY, 1838 (o. d.)

B1197 *Dosinorbis bilunulatus* (GRAY, 1838)

Hina-gai

- Type locality: none designated.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (J1), EC5, East China Sea; China (Hong Kong; Jiangsu).
- Habitat: 10-50 m., sand.
- Original genus: *Arthemis*.

B1198 *Dosinorbis biscoctus* (REEVE, 1850 in 1843-65)

(= *Phacosoma biscoticum* REEVE, 1850 *sensu* HABE, 1977-a)

Bisuketto-kagami

- Type locality: Philippines.
- Distribution: Sagami bay and southwards, P7-P5, EC5, East China Sea, P2; Yellow Sea, Philippines, China (Shandong).
- Habitat: subtidal to 30 m., sand and mud.
- Original genus: *Artemis*.

B1199 *Dosinorbis hayashii* HABE, 1976-a

Mi-kagami-gai

- Type locality: off Atsumi peninsula, Aichi prefecture; ± 20 m.
- Distribution: central Honshū (off Aichi prefecture to Kii peninsula KURODA & HABE, 1981).
- Habitat: 10-30 m., sand.

□ Genus *Phacosoma* JUKES-BROWN, 1912

Type species: *Artemis japonica* REEVE, 1850 (o. d.)

B1200 *P. japonicus* (REEVE, 1850 in 1843-65)

(= *Cytherea tumida* auct. non GRAY, 1838; *Artemis duplicata* REEVE, 1850 in 1843-65; *A. tenuilamellata* SOWERBY II, 1852; *Dosinia specularis* RÖMER, 1860) Kagami-gai

- Type locality: 'Japan'.
- Distribution: southern Hokkaidō (KURODA & HABE, 1981) and southwards, P10-P5, Japan Sea (Tsugaru peninsula, J4-J1), EC5, East China Sea, P2; Korea, Yellow Sea, China (Bo-hai; Hong Kong; Hainan; southern coast).
- Habitat: subtidal to 60 m., fine sand.
- Original genus: *Artemis*.

B1201 *P. troscheli* (LISCHKE, 1873 in 1868-73)

Maru-hina-gai

- Type locality: '*litora Japoniae meridionalis*' (shores of central Japan).
- Distribution: southern Hokkaidō (KURODA & HABE, 1981) and southwards, P10-P5, Japan Sea (Tsugaru peninsula, J4-J1), EC5, East China Sea, P2; Korea, South China Sea, China.
- Habitat: 10-160 m., sand.
- Original genus: *Dosinia*.

B1202 *P. nipponica* OKUTANI in OKUTANI, TAGAWA & HORIKAWA, 1989

Yatano-kagami

- Type locality: off Atsumi peninsula, Aichi prefecture.
- Distribution: Enshū-nada and southwards, Kii peninsula, P2; South China Sea, Korea.
- Habitat: 10-30 m., sand.

B1203 *P. cumingii* (REEVE, 1850 in 1843-65)

Fuji-iro-kagami

- Type locality: 'San Nicolas, Island of Zebu (Cebu), Philippines (in sandy mud)'.
- Distribution: East China Sea, P2; Taiwan and southwards, Philippines, China (Guandong).
- Habitat: intertidal to 20 m., sand.
- Original genus: *Artemis*.

B1204 *P. abyssicola* (HABE, 1961-a)

(= *Dosinia benthicola* HABE, 1961 *nom. nud.*)

Fuka-kagami

- Type locality: 'Sōyō-Marui' sta. 481, off Yamaguchi prefecture (western Honshū, Japan Sea): 35° 16' 38" N., 130° 10' E., 143 m., sand.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (off Mishima TSUCHIDA & HORI, 1996, J2-J1), EC5, ECP4-ECP2, East China Sea.
- Habitat: 50-200 m., sandy mud.
- Original genus: *Dosinia* (*Phacosoma*).

B1205 *P. lamellata* (REEVE, 1850 in 1843-65)

Niku-iro-kagami

- Type locality: 'North Australia'.
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines.
- Habitat: subtidal to 20 m., sand.
- Original genus: *Artemis*.

B1206 *P. tumida* (GRAY, 1838)

(= *Cytherea scabriuscula* PHILIPPI, 1847; *Dosinia spaldingi* JOUSSEAUME, 1894)

Toge-kagami

- Type locality: none designated.
- Distribution: Suruga bay and southwards, P6-P5, Japan Sea (off Mishima, J1), EC5, ECP4-ECP2, P2; Philippines, Australia.
- Habitat: intertidal to 30 m., sand.
- Original genus: *Arthemis*.

B1207 *P. aspera* (REEVE, 1850 in 1843-65)

Tsuki-kagami

- Type locality: 'Manilla (in sandy mud at low water)' (Manila, Philippines).
- Distribution: Okinawa (Iriomote island HABE, 1981-a) and southwards, ECP2, P2; Philippines, South China Sea, China (Hainan; Beibu gulf).
- Habitat: intertidal, mud among mangroves.
- Original genus: *Artemis*.

B1208 *P. roemeri* (DUNKER, 1863 in 1858-1870)

(= *Dosinia (Asa) melecocta* FISCHER-PIETTE & DELMAS, 1967)

Atsu-kagami

- Type locality: Japan.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, Seto inland sea, EC5, ECP4-ECP2, P2; Philippines, Australia.
- Habitat: intertidal to 30 m., sand.
- Original genus: *Dosinia*.

B1209 *P. gruneri* (PHILIPPI, 1849-a)

Taiwan-kagami

- Type locality: '*ignota*' (unknown).
- Distribution: P2; Taiwan and southwards, Philippines, Beibu gulf, Hainan, Vietnam, Indian Ocean.
- Habitat: intertidal to 20 m., sandy mud.
- Original genus: *Artemis*.

B1210 *P. canaliculata* (SOWERBY II, 1852 in 1842-87)

- Type locality: 'Manilla, Island of Luzon' (Philippines).
- Distribution: P2, East China Sea; Taiwan, Philippines.
- Habitat: intertidal to 25 m., sand and mud.
- Original genus: *Artemis*.

B1211 *P. physema* (RÖMER, 1870-a)

(= *Dosinia zilchi* FISCHER-PIETTE & DELMAS, 1967)

- Type locality: 'Japan'.
- Distribution: Aichi prefecture and southwards, P6-P5, East China Sea.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Dosinia*.

B1212 *P. exasperata* (PHILIPPI, 1847 in 1842-51)

(= *Cytherea sieboldii* REEVE, 1850 in 1843-65)

Arasuji-kagami

- Type locality: none designated.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, P2; Philippines, Australia.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Cytherea* (*Artemis*).

□ Genus *Sinodia* JUKES-BROWN, 1908

Type species: *Artemis trigona* REEVE, 1850 (o. d.)

B1213 *S. gibba* (A. ADAMS, 1869-a)

Maru-kagami-hamaguri

- Type locality: 'Tatiyama' (Tateyama, Bōsō peninsula, central Honshū).
- Distribution: off Chiba prefecture, East China Sea; South China Sea, Yellow Sea, China (Hong Kong; Hainan; Bohai).
- Habitat: 5-20 m., sand and mud.
- Original genus: *Dosinia*.

□ Genus *Dosinella* DALL, 1902-c

Type species: *Cytherea angulosa* PHILIPPI, 1847 (o. d.)

B1214 *D. angulosa* (PHILIPPI, 1847 in 1842-51)

(= *Dosinia hanleyana* H. & A. ADAMS, 1857 in 1853-58)

Taiwan-ura-kagami

- Type locality: '*Mare inter Malaccam et Philippinas*' (Malacca Strait).
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, China (Guandong), southeast Asia, Red Sea, Indo-Pacific.
- Habitat: intertidal to 40 m., mud, in bays.
- Original genus: *Cytherea* (*Artemis*).

B1215 *D. corrugata* (REEVE, 1850 in 1843-65)

(= *Artemis penicillata* REEVE, 1850 in 1843-65; *Dosinia trailli* A. ADAMS, 1856-b; *D. angulosa auct. non* PHILIPPI, 1847)

Ura-kagami

- Type locality: none designated.
- Distribution: Mutsu bay (Aomori prefecture) and southwards, P9-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea, P2; Korea, South China Sea, China.
- Habitat: subtidal to 10 m., sandy mud.
- Original genus: *Artemis*.

B1216 *D. orbiculata* (DUNKER, 1877)

(= *Artemis plana auct. non Cytherea plana* BROGNIART in CUVIER, 1822, *nec* REEVE, 1850)

Otohime-kagami

- Type locality: Japan.
- Distribution: Sagami bay (KURODA & HABE, 1981) and southwards, P6-P5, Japan Sea (northern Niigata prefecture, J2-J1), EC5, East China Sea; South China Sea, Beibu gulf, Philippines.
- Habitat: 10-160 m., fine sand.
- Original genus: *Dosinia*.

B1217 *D. subalata* (E. A. SMITH, 1916)

Tama-kagami

- Type locality: Puerto Galera, northern Mindoro island, Philippines.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, EC5, East China Sea; South China Sea, China (Guandong), Philippines.
- Habitat: 10-90 m., fine sand.
- Original genus: *Dosinia*.

□ Genus *Pardosinia* IREDALE, 1929-a

Type species: *Pardosinia colorata* IREDALE, 1929 (o. d.; = *Artemis amphidesmoides* REEVE, 1850)

B1218 *P. amphidesmoides* (REEVE, 1850 in 1843-65)

(= *Artemis radiata* REEVE, 1850 in 1843-65; *Dosinia erythraea* RÖMER, 1860; *P. colorata* IREDALE, 1929-a) Usu-kagami (= Kuchibeni-kagami)

- Type locality: 'Island of Burias, Philippines (in coarse sand at the depth of six fathoms)'.
- Distribution: Mie prefecture (off Miura, 20 m. MATSUMOTO, 1979) and southwards, P6-P5, Seto inland sea, EC5, East China Sea, P2; South China Sea, Hainan, Indonesia, Australia.
- Habitat: subtidal to 20 m., mud.
- Original genus: *Artemis*.

B1219 *P. pubescens* (PHILIPPI, 1847 in 1842-51)

(= *Artemis caelata* REEVE, 1850 in 1843-65; *Dosinia eunice* A. ADAMS, 1856-b; *D. ovalis* RÖMER, 1860)

Hime-kagami

- Type locality: none designated.
- Distribution: Bōsō peninsula and southwards, P7-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea; South China Sea, Hainan, Philippines, Indo-Pacific.
- Habitat: intertidal to 25 m., sand and mud.
- Original genus: *Cytherea*.

□ Genus *Bonartemis* IREDALE, 1929-a

Type species: *Bonartemis stabilis* IREDALE, 1929 (o. d.; = *Venus juvenilis* GMELIN, 1791)

B1220 *B. juvenilis* (GMELIN, 1791)

(= *Cytherea ruta* LAMARCK, 1818 in 1815-22; *Artemis laminata* REEVE, 1850 in 1843-65; *Dosinia eburnea* RÖMER, 1860; *Bonartemis stabilis* IREDALE, 1929-a) Waka-kagami (= Cha-madara-kagami)

- Type locality: 'in India'.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, South China Sea, Celebes Sea, Australia, tropical Pacific.
- Habitat: subtidal to 30 m., fine sand.
- Original genus: *Venus*.

**B1221 *B. histrio histrio* (GMELIN, 1791)**

(= *Cytherea obsoleta* RÖDING, 1798; *Venus australis* QUOY & GAIMARD, 1835 non GMELIN, 1791; *Artemis variegata* GRAY, 1838; *Dosinia scabra* PHILIPPI, 1849; *D. vistoriae* GATLIFF & GABRIEL, 1914; *Pardosinia alma* IREDALE, 1929)

Oino-kagami

- Type locality: 'in India'.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5, ECP4-ECP2, P2; Philippines, Hainan, South China Sea, Indo-Pacific.
- Habitat: subtidal to 30 m., sand.
- Original genus: *Venus*.

**B1222 *B. histrio iwakawai* ŌYAMA & HABE in HABE, 1961-a**

Sazame-gai

- Type locality: Ibusuki City, Kagoshima prefecture, southern Kyūshū.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, EC5, ECP4-ECP2, P2; Philippines.
- Habitat: subtidal to 50 m., fine sand.

Subfamily **TAPETINAE GRAY, 1851**

□ Genus ***Tapes* MÜHLFELD, 1811**

Type species: *Venus literata* LINNAEUS, 1758 (mt.) (= *Parembola* RÖMER, 1857) (Refs.: Matsukuma, 1986)

**B1223 *T. literatus* (LINNAEUS, 1758)**

(= *Cochlea arborescens* MARTYN, 1792; *Paphia guttulata* RÖDING, 1798; *P. nocturna* RÖDING, 1798; *Venus compunctata* LINK, 1807; *V. punctifera* LAMARCK, 1818 in 1815-22; *V. sulphurea* PHILIPPI, 1848)

Ryūkyū-asari

- Type locality: 'in Europa australi & India' (southern Europe and India).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2, East China Sea; Philippines, South China Sea, Hainan, Australia, New Caledonia.
- Habitat: intertidal to 20 m., sand.

- Original genus: *Venus*.

**B1224 *T. dorsatus* (LAMARCK, 1818 in 1815-22)**

(= *Venus turgida* LAMARCK, 1818 in 1815-22; *V. ovulaea* LAMARCK, 1818 in 1815-22; *Tapes watlingi* IREDALE, 1958)

Sudare-surigahama

- Type locality: 'les mers de la Nouvelle-Hollande' (Australia).
- Distribution: Okinawa islands and southwards, ECP2, P2; Philippines, northern Australia.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Venus*.

**B1225 *T. platyptycha* PILSBRY, 1901-a**

Surigahama

- Type locality: Hirado island, Nagasaki prefecture, western Kyūshū.
- Distribution: Sagami bay (KURODA & HABE, 1981) and southwards, P6-P5, EC5, ECP4-ECP2, P2, East China Sea; southern China.
- Habitat: 5-20 m., fine sand.

**B1226 *T. sericeus* MATSUKUMA, 1986**

(= *T. araneosa* auct. non PHILIPPI, 1847; *Venus obscuratus* DESHAYES sensu KURODA, 1928-c) Kinume-surigahama

- Type locality: Ankyaba, Kakeroma island, Amami islands.
- Distribution: Amami islands and southwards, ECP3-ECP2, East China Sea; Palau.
- Habitat: intertidal to 20 m., sand.

**B1227 *T. belcheri* SOWERBY II, 1852 in 1842-87**

(= *T. obscurata* DESHAYES, 1853; *T. phenax* PILSBRY, 1901)

Hime-ryūkyū-asari (= Habutae-surigahama)

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, South China Sea, southeast Asia, Australia.
- Habitat: intertidal to 20 m., sand.

□ Genus ***Ruditapes* CHIAMENTI, 1900**

Type species: *Venus decussata* LINNAEUS, 1758 (s. d. DALL, 1902)

(= *Amygdala* RÖMER, 1857 non GRAY, 1825)

**B1228 *R. philippinarum* (ADAMS & REEVE, 1850 in 1848-50)**

(= *Tapes japonica* DESHAYES, 1853 non GMELIN, 1791; *T. violacea* DESHAYES, 1853; *T. semidecussata* REEVE, 1864; *T. ducalis* RÖMER, 1870; *T. defurcata* QUAYLE, 1938)

Asari

- Type locality: 'Philippine Archipelago' (possibly

erroneous; not known from Philippines).

- Distribution: Hokkaidō and southwards, P10-P5, Japan Sea (J5-J1), EC5, East China Sea; Russia (southern Primoriye region ARZAMASTSEV, 1997), Sakhalin, Korea, South China Sea, Yellow Sea, China (Bo-hai; Hong Kong; coastal China), introduced to USA.
- Habitat: intertidal to 10 m., coarse sand and stones, mud.
- Original genus: *Venus*.

**B1229 *R. bruguieri* (HANLEY, 1845-d)**

(= *Tapes variegata* HANLEY in SOWERBY, 1852 in 1842-87; *T. tessellata* ADAMS & REEVE, 1850 in 1848-50 non GRAY, 1827; *T. punicea* DESHAYES, 1853; *T. violascens* DESHAYES, 1853; *T. cinerea* DESHAYES, 1853)

Hime-asari

- Type locality: none designated.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2, East China Sea; Korea, South China Sea, China, southeast Asia, Australia, Indo-Pacific.
- Habitat: intertidal, coarse sand and stones, mud.
- Original genus: *Venus*.

□ Genus ***Paphia* RÖDING, 1798**

Type species: *Paphia alapapilionis* RÖDING, 1798 (s. d. DALL, 1902; = *Venus rotundata* LINNAEUS, 1758) (= *Paratapes* STOLICZKA, 1870 in 1870-71; *Textrix* RÖMER, 1857 non SUNDEVALL, 1883; *Eutapes* CHIAMENTI, 1900)

Subgenus ***Paphia* s. str.**

**B1230 *P. (P.) euglypta* (PHILIPPI, 1847-c)**

(= *P. lischkei* FISCHER-PIETTE & MÉTIVIER, 1971)

Sudare-gai

- Type locality: 'ignoro' (unknown).
- Distribution: southwestern Hokkaidō and southwards, P10-P5, Japan Sea (J4-J1), East China Sea; South China Sea, Korea, China, Hong Kong.
- Habitat: 10-40 m., fine sand.
- Original genus: *Venus*.

**B1231 *P. (P.) schnelli* (DUNKER, 1865 in 1858-70)**

Ō-sudare-gai

- Type locality: Nagasaki, western Kyūshū.
- Distribution: northeastern Honshū (Fukushima prefecture) and southwards, P8-P5, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea.
- Habitat: 10-160 m., fine sand.
- Original genus: *Tapes*.

**B1232 *P. (P.) amabilis* (PHILIPPI, 1847-c)**

Satsuma-akagai

- Type locality: none designated.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981)

and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea, P2; South China Sea, China.

- Habitat: 10-70 m., sand.
- Original genus: *Venus*.

**B1233 *P. (P.) vernicosa* (GOULD, 1861 in 1859-61)**

(= *Tapes greeffei* DUNKER, 1877)

Ake-gai (= Awa-sudare)

- Type locality: 'Kagosima Bay (Kagoshima, southern Kyūshū) and off Hakodadi Cape (Hakodate, Hokkaidō), in coarse sand, 20 fathoms'.
- Distribution: southern Hokkaidō (KURODA & HABE, 1981) and southwards, P10-P5, Ōsaka bay (OKAMURA & KOJIMA, 1984), Japan Sea (J4-J1), EC5, East China Sea; Korea, Yellow Sea, coastal China.
- Habitat: intertidal to 50 m., fine sand.
- Original genus: *Tapes*.

**B1234 *P. (P.) exarata* (PHILIPPI, 1846 in 1842-51)**

Hime-sudare

- Type locality: '*Mare Rubrum?*' (Red Sea?).
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, EC5, East China Sea, P2; South China Sea, Hainan, Thailand, Red Sea, Australia (Gulf of Carpentaria LAMPRELL & HEALY, 1998).
- Habitat: 10-150 m., fine sand.
- Original genus: *Venus*.

**B1235 *P. (P.) lirata* (PHILIPPI, 1848 in 1842-51)**

- Type locality: none designated.
- Distribution: Okinawa and southwards, ECP2, P2, East China Sea; Taiwan.
- Habitat: 20-100 m., fine sand.
- Original genus: *Venus*.

Subgenus ***Neotapes* KURODA & HABE in KURODA et al., 1971**

Type species: *Venus undulata* BORN, 1778 (o. d.)

**B1236 *P. (N.) undulata* (BORN, 1778)**

(= *Venus rimosa* PHILIPPI, 1847; *Tapes vernicosa* REEVE, 1864 non GOULD, 1861; *Paratapes scordalus* IREDALE, 1936)

Iyo-sudare

- Type locality: none designated.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea; Korea, Taiwan, South China Sea, Beibu gulf, Philippines, Australia, Indo-Pacific.
- Habitat: subtidal to 20 m. mud, in bays.
- Original genus: *Venus*.

□ Genus ***Marcia* H. & A. ADAMS, 1857 in 1853-58**

Type species: '*Venus pinguis* CHEMNITZ' (s. d. KOBELT, 1881; non-binominal; = *Venus opima* GMELIN, 1791)



( = *Hemitapes* RÖMER, 1864; *Laevimarcia* COX, 1927; *Nipponomarcia* IKEBE, 1941; *Nipponomarucia* HABE, 1977 *err. pro -marcia*)

**B1237 *M. virginea* (LINNAEUS, 1767)**

Takasago-sudare

- Type locality: 'in Indiis'
- Distribution: P2; Taiwan and southwards, Philippines, Indo-Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Venus*.

**B1238 *M. hiantina* (LAMARCK, 1818 in 1815-22)**

( = *Venus rimularis*, *vermiculosa*, *flammiculata*, all LAMARCK, 1818 in 1815-22; *Tapes luzonica* SOWERBY, 1852)

Yaeyama-sudare

- Type locality: 'les mers australes' (southern seas).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, South China Sea, China (Hainan; Hong Kong; Beibu gulf), Australia, Indo-Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Venus*.

**B1239 *M. japonica* (GMELIN, 1791)**

( = *Venus striata* GMELIN, 1791; *V. porcata* RÖDING, 1798; *V. vulvina*, *tristis*, *elegantina*, *adpersa*, all LAMARCK, 1818 in 1815-22; *V. labuana* ADAMS & REEVE, 1850 in 1848-50; *Chione philippi* DESHAYES, 1853; *C. regularis* PHILIPPI, 1853; *Venus aurisiaca* HANLEY, 1856; *Tapes caledonica* BERNARDI, 1856; *Chione chemnitzii* DUNKER, 1882)

Sudare-hamaguri

- Type locality: none designated.
- Distribution: southern Kyūshū and southwards, ECP4-ECP2, P2; Philippines, South China Sea, Hong Kong, Indo-Pacific.
- Habitat: subtidal to 30 m., sand.
- Original genus: *Venus*.

**B1240 *M. marmorata* (LAMARCK, 1818 in 1815-22)**

( = *Venus recens* WOOD, 1828 in 1818-28; *V. variabilis* PHILIPPI, 1844 *non* SOWERBY, 1835; *Chione ustulata* DESHAYES, 1853; *Tapes sinensis* REEVE, 1864; *T. orientalis* REEVE, 1864; *T. exserta* RÖMER, 1872)

Taiwan-sudare

- Distribution: P2; Taiwan and southwards, South China Sea, Philippines, China (Hong Kong; Hainan; Beibu gulf), Indo-Pacific.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Venus*.

□ Genus ***Gomphina* MÖRCH, 1853**

Type species: *Venus undulosa* LAMARCK, 1818 (mt.)

Subgenus ***Gomphina s. str.***

**B1241 *G. (G.) undulosa* (LAMARCK, 1818 in 1815-22)**

( = *Venus variabilis* SOWERBY I in BRODERIP & SOWERBY, 1835)

Fuki-age-asari

- Type locality: 'les mers de la Nouvelle-Hollande, a la baie des Chiens marins, et au port du Roi Georges' (Shark Bay, Western Australia and King George sound, Western Australia).
- Distribution: Izu islands (Hachijō island) and southwards, P6-P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Australia, Indo-Pacific.
- Habitat: subtidal to 20 m., sand.
- Original genus: *Venus*.

**B1242 *G. (G.) neastartoides* (YOKOYAMA, 1922)**

Kita-no-fuki-age-asari

- Type locality: Kioroshi, Inzai village, Chiba prefecture, central Honshū (fossil).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, East China Sea.
- Habitat: subtidal, sand.
- Original genus: *Venus*.

Subgenus ***Macridiscus* DALL, 1902-c**

Type species: *Donax aequilatera* SOWERBY I, 1825 (o. d.); = *Donax veneriformis* LAMARCK, 1818)

**B1243 *G. (M.) veneriformis* (LAMARCK, 1818 in 1815-22)**

( = *Donax aequilatera* SOWERBY I, 1825; *Venus semicancellata* PHILIPPI, 1843; *V. donacina* SOWERBY II, 1853 *non* GMELIN, 1791; *Gomphina melanaegis* RÖMER, 1861)

Oki-asari (= Ko-tama-gai)

- Type locality: 'les mers d'Asie?' (Asian seas?).
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (J4-J1), EC5, P2; Korea, China (Shandong; Hainan), South China Sea, Yellow Sea, southeast Asia.
- Habitat: subtidal to 60 m., sand.
- Original genus: *Donax*.

□ Genus ***Liocyma* DALL, 1870-a**

Type species: *Venus fluctuosa* GOULD, 1841 (o. d.)

( = *Lyozyomia* NORDSIECK, 1969; *Lyocima*, *Lyacima auct.*)

**B1244 *L. fluctuosa* (GOULD, 1841)**

( = *Venus astartoides* MIDDENDORFF, 1843; *Liocyma scammoni* DALL, 1871; *L. viridis* DALL, 1871; *L. schefferi* BARTSCH & REHDER, 1939; *L. hokkaidoensis* HABE, 1951-a)

Ezo-hamaguri (= Hoso-suji-hamaguri)

- Type locality: Grand Banks, off Nova Scotia, northeastern USA (Atlantic Ocean).

- Distribution: northeastern Honshū (Iwate prefecture) and northwards, P9-P10, Japan Sea (off Mishima, J2-J5), Hokkaidō, OP, Kuril islands, Okhotsk Sea; Bering Sea, Alaska, Canada (west and east), northern Atlantic Ocean.
- Habitat: subtidal to 1400 m., sandy mud.
- Original genus: *Venus*.

B1245 *L. aniwana* DALL, 1907-c

Aniwa-hamaguri

- Type locality: USFC sta. 5013, Aniwa bay, Sakhalin.
- Distribution: northern Hokkaidō, J5, Okhotsk Sea; Sakhalin.
- Habitat: 10-1500 m., sandy mud.

B1246 *L. beckii* DALL, 1870-a

Hai-iro-ezo-hamaguri (= Kogata-ezo-hamaguri)

- Type locality: Plover bay (Bering strait, Chukchi (Chukotsk) peninsula, eastern Siberia) and Ounga island (Alaska).
- Distribution: northern Honshū (Aomori prefecture) and northwards, P10, J4-J5, OP, Kuril islands, Okhotsk Sea; Bering Sea, Alaska.
- Habitat: 200-400 m., sandy mud.

□ Genus *Irus* SCHMIDT, 1818

Type species: *Donax irus* LINNAEUS, 1758 (by tautonymy)

(= *Irus* OKEN, 1815 - invalid, ICZN op. 417)

Subgenus *Irus s. str.*

B1247 *I. (I.) irus* (LINNAEUS, 1758)

(= *Venerupis macrophyllus* DESHAYES, 1853)

Hane-matsu-kaze

- Type locality: 'in *M. Mediterraneo*' (Mediterranean Sea).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Seto inland sea, Japan Sea (Sado island, J3-J1), EC5, East China Sea, P2; South China Sea, Korea, Yellow Sea, Hong Kong, Philippines, tropical Indo-Pacific.
- Habitat: intertidal, boring in soft rocks.
- Original genus: *Donax*.

B1248 *I. (I.) mitis* (DESHAYES, 1853-a)

(= *Venerupis semipurpurea* DUNKER, 1882)

Matsu-kaze-gai

- Type locality: none designated.
- Distribution: Mutsu bay (Aomori prefecture) and southwards, P10-P5, Japan Sea (Tsugaru peninsula, J4-J1), EC5, East China Sea, P2; Korea, Yellow Sea, China (Shandong), South China Sea, tropical Pacific.
- Habitat: intertidal, boring in soft rocks.
- Original genus: *Venerupis*.

B1249 *I. (I.) ishibashianus* KIRA, 1959

(= *I. ishibashianus* KURODA & HABE, 1952-a *nom. nud.*)

Okina-matsu-kaze

- Type locality: Numa, Tateyama City, Chiba prefecture, central Honshū.

- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (central Niigata prefecture, J3-J1), Seto inland sea, EC5.

- Habitat: intertidal, boring in soft rocks.

Subfamily SUNETTINAE STOLICZKA, 1870 in 1870-71

□ Genus *Cyclosunetta* FISCHER-PIETTE, 1939

Type species: *Sunettina sunettina* JOUSSEAUME, (Sept.) 1891 (o. d.; = *Sunettina contempta* E. A. SMITH, (June) 1891)

(= *Sunettina* JOUSSEAUME, 1891 *non* PFEIFFER, 1869)

B1250 *C. contempta* (E. A. SMITH, 1891-a)

(= *Meroe menstrualis* MENKE, 1843 *sensu* REEVE, 1864 in 1843-65; *Sunetta cumingii* E. A. SMITH, 1891; *Sunettina sunettina* JOUSSEAUME, 1891)

Mi-wasure-gai

- Type locality: 'New Holland?' (Australia).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2, East China Sea; Red Sea, southeast Asia, Australia.
- Habitat: 5-20 m., sand.

B1251 *C. menstrualis* (MENKE, 1843)

(= *Cytherea excavata* HANLEY, 1843 *non* MORTON, 1833; *Meroe magnifica* REEVE, 1864 in 1843-65)

Wasure-gai

- Type locality: '*ad litus occidentali*' ('the western shore', of Australia).
- Distribution: northeastern Honshū (Fukushima prefecture) and southwards, P8-P5, Japan Sea (J1), EC5, East China Sea, P2; southern Korea, Yellow Sea, northern Australia, tropical Pacific.
- Habitat: subtidal to 50 m., sand and mud.
- Original genus: *Cytherea*.

B1252 *C. truncata* (DESHAYES, 1853-a)

(= *Sunetta concinna* DUNKER, 1865)

Shima-wasure (= Iso-wasure)

- Type locality: 'Philippines'.
- Distribution: Izu islands (Hachijō island) and southwards, P11, Kii peninsula, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, southeast Asia, Australia.
- Habitat: 5-10 m., sand.
- Original genus: *Cuneus*.

□ Genus *Sunettina* PFEIFFER, 1869 in 1841-72

Type species: *Cytherea solanderii* GRAY, 1825 (mt.)

(= *Solanderina* DALL, 1902)

B1253 *S. solanderii* (GRAY, 1825)

Beni-wasure

- Type locality: none designated.
- Distribution: Sagami bay (KURODA & HABE, 1981) and southwards, P6-P5, EC5, ECP4-ECP2, P2, East China Sea; Hainan, South China Sea, Indo-western Pacific.
- Habitat: 10-50 m., sand.
- Original genus: *Cytherea*.

B1254 *S. langfordi* HABE, 1953-d

Okinawa-wasure (= Ranfōdo-wasure)

- Type locality: Itoman, Okinawa.
- Distribution: Okinawa islands, ECP2, P2; South China Sea.
- Habitat: subtidal to 40 m., sand and mud.

Subfamily **MERETRICINAE GRAY, 1847**

□ Genus *Meretrix* LAMARCK, 1799

Type species: *Venus meretrix* LINNAEUS, 1758 (by tautonymy)

(= *Cytherea* LAMARCK, 1806 non FABRICIUS, 1794; *Cythererites* KRÜGER, 1823; *Nympha* MÖRCH, 1853 non FITZINGER, 1826)

B1255 *M. meretrix* (LINNAEUS, 1758)

(= *Cochlea nimbata*, *inscripta*, *virgulata*, all MARTYN, 1784 (invalid: ICZN op. 456); *Meretrix labiosa* LAMARCK, 1801; *Cytherea ponderosa* SCHUMACHER, 1817 non KOCH in PHILIPPI, 1844; *C. impudica*, *castanea*, *graphica*, *morphina*, all LAMARCK, 1818 in 1815-22)

Taiwan-hamaguri

- Type locality: 'in *O. Indico*' (Indian Ocean).
- Distribution: Okinawa islands and southwards, ECP2, P2, East China Sea; Philippines, South China Sea, coastal China, Hong Kong, Indonesia, Moluccas, Indo-Pacific.
- Habitat: intertidal to 20 m., sand and mud.
- Original genus: *Venus*.

B1256 *M. lusoria* (RÖDING, 1798)

(= *M. formosa* LAMARCK, 1817; *Cytherea zonaria sensu* REEVE, 1864)

Hamaguri

- Type locality: Japan.
- Distribution: southern Hokkaidō (KURODA & HABE, 1981) and southwards, P10-P5, Seto inland sea, Japan Sea (Oga peninsula, J4-J1), EC5; Korea, coastal China.
- Habitat: intertidal to 20 m., sandy mud, in bays.

B1257 *M. lamarckii* GRAY, 1853

Chōsen-hamaguri

- Type locality: 'Mare Chinense' (China Sea).
- Distribution: northeastern Honshū (Fukushima prefecture) and southwards, P8-P5, Japan Sea (Oga peninsula, J3-J1), EC5, P2, East China Sea; Korea, China, South China Sea.
- Habitat: subtidal to 20 m., offshore; in sand.

B1258 *M. petechialis* (LAMARCK, 1818 in 1815-22)

Shina-hamaguri

- Type locality: 'l'Océan des Grandes Indes'.
- Distribution: central Honshū (Mie prefecture), western Kyūshū (Ariake inland sea); western Korea to coastal China.
- Habitat: intertidal to 20 m., sandy mud; cultivated for food.
- Original genus: *Cytherea*.

B1259 *M. lyrata* (SOWERBY II, 1851 in 1842-87)

Misu-hamaguri

- Type locality: Hong Kong.
- Distribution: P2, East China Sea; Taiwan and southwards, southern China, South China Sea, southeast Asia.
- Habitat: intertidal to 20 m., sandy mud.
- Original genus: *Cytherea*.

Subfamily **CYCLININAE FRIZZELL, 1936**

□ Genus *Cyclina* DESHAYES, 1850 in 1839-53

Type species: *Venus sinensis* GMELIN, 1791 (s. d. DALL, 1902)

(= *Eocyclina* DALL, 1908)

B1260 *C. sinensis* (GMELIN, 1791)

(= *Artemis chinensis* REEVE, 1850; *A. orientalis* SOWERBY II, 1855; *Cyclina flavida* DESHAYES, 1850 in 1839-53)

Oki-shijimi (= Taiwan-oki-shijimi; Date-oki-shijimi; Nunome-oki-shijimi; Kuro-oki-shijimi)

- Type locality: 'in mari Sinam' (China seas).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (Oga peninsula, J3-J1), EC5, P2, East China Sea; Korea, Philippines, South China Sea, coastal China, Red Sea, southeast Asia.
- Habitat: intertidal to 20 m., sandy mud.
- Original genus: *Venus*.

Subfamily **CLEMENTINAE FRIZZELL, 1936**

□ Genus *Clementia* GRAY, 1840

Type species: *Venus papyracea* GRAY, 1825 (s. d. GRAY, 1847)

(= *Blainvillia* HUPÉ, 1854 non ROBINEAU-DESVOIDY, 1830)

B1261 *C. papyracea* (GRAY, 1825)

Kami-busuma-gai

- Type locality: none designated.
- Distribution: Amami islands and southwards, ECP3-ECP2, P2, central East China Sea; Philippines, South China Sea, Hainan, Beibu gulf, Red Sea, southeast Asia.
- Habitat: intertidal to 150 m., sand and mud.
- Original genus: *Venus*.

B1262 *C. vatheleti* MABILLE, 1901

(= *Clementia papyracea sensu* HABE, 1964; *C. speciosa* YOKOYAMA, 1923)

Fusuma-gai

- Type locality: Japan.
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea, Yellow Sea, Bo-hai, southeast Asia.
- Habitat: intertidal to 20 m., sandy mud.

B1263 *C. similis* SOWERBY II, 1852 in 1842-87

- Type locality: 'San Nicolas, island of Zebu (Cebu), Philippines'.
- Distribution: 'Pacific coast, 14°-35° N'. (KURODA & HABE, 1952-a); Philippines.

Subfamily GEMMINAE DALL, 1902

□ Genus *Gemma* DESHAYES in GRAY, 1853

Type species: *Venus gemma* TOTTEN, 1834 (by tautonymy)

B1264 *G. gemma* (TOTTEN, 1834)

- Type locality: Provincetown, Cape Cod, Massachusetts, eastern USA; on beach.
- Distribution: 'Japan Sea side, 46° (?) N'. (KURODA & HABE, 1952-a); northeastern USA.
- Original genus: *Venus*.

Family PETRICOLIDAE D'ORBIGNY, 1840

(Refs.: Habe, 1951-f)

□ Genus *Petricola* LAMARCK, 1801

Type species: *Petricola costata* LAMARCK, 1801 (s. d. SCHMIDT, 1818; = *Venus lapcida* GMELIN, 1791) (= *Narancio* GRAY, 1853)

B1265 *P. lapcida* (GMELIN, 1791)

(= *Venus divergens* GMELIN, 1791; *V. divaricata* GMELIN, 1791; *Petricola costata* LAMARCK, 1801; *P. lucinalis* LAMARCK, 1818 in 1815-22; *Narancio radiata* GRAY, 1853; *Petricola divaricata sensu* SOWERBY, 1854)

Iwa-hori-gai

- Type locality: '*ad insulas Americae*' ('islands of America'; erroneous).
- Distribution: Kii peninsula and southwards, P5, Japan Sea (Wakasa bay, J2-J1), EC5, ECP4-ECP2, P2; Philippines, Australia, Red Sea, Indo-Pacific.
- Habitat: intertidal to 10 m., boring in soft rocks.
- Original genus: *Venus*.

□ Genus *Claudiconcha* FISCHER, 1887 in 1880-87

Type species: *Venus monstrosa* GMELIN, 1791 (mt.)

B1266 *C. monstrosa* (GMELIN, 1791)

Nunome-semi-asari

- Type locality: '*ad insulas Nicobaricas*' (Nicobar islands, Indian Ocean).
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea;

Philippines, South China Sea, southern Africa, Indo-Pacific.

- Habitat: intertidal to 10 m., in rock crevices.
- Original genus: *Venus*.

B1267 *C. japonica* (DUNKER, 1882)

(= *Petricola japonica circumdata* LAMY, 1923)

Semi-asari

- Type locality: '*in litore prope Kisenuma Oceani pacifici lapides calcareos crystallinos penetrans*' (From the coast of Kesen-numa, Miyagi prefecture, boring in calcitic stones').
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (Noto peninsula, J2-J1), EC5, P2, East China Sea; South China Sea, Hong Kong, Hainan, Indo-Pacific.
- Habitat: intertidal to 10 m., in rock crevices.
- Original genus: *Petricola*.

□ Genus *Petricolirus* HABE, 1951-a

Type species: *Petricola aequistriata* SOWERBY II, 1874 (o. d.)

B1268 *P. aequistriatus* (SOWERBY II, 1874)

Shiotsu-gai

- Type locality: none designated.
- Distribution: northeastern Honshū (Fukushima prefecture) and southwards, P8-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5.
- Habitat: intertidal, boring in soft rocks and hard mud.
- Original genus: *Petricola*.

□ Genus *Pseudouris* HABE, 1951-a

Type species: *Petricola mirabilis* DESHAYES, 1853 (o. d.)

B1269 *P. mirabilis* DESHAYES, 1853-b

Chijimi-iwa-hori-gai

- Distribution: southern Hokkaidō and southwards, Oga peninsula, P10-P5, J3-J1, Seto inland sea, EC5; Korea, Yellow Sea.
- Habitat: intertidal to 20 m., in rock crevices.
- Original genus: *Petricola*.

□ Genus *Rupellaria* FLEURIAU de BELLEVUE, 1802

Type species: *Venus lithophaga* RETZIUS, 1786 (mt.)

B1270 *R. fabagella* (LAMARCK, 1818 in 1815-22)

(= *Petricola chinensis* DESHAYES, 1853; *P. cyclas* PILSBRY, 1901; *P. cyclas sculpturata* PILSBRY, 1901; *Rupellaria pechiliensis* GRABAU & KING, 1928) Kushike-gai (= Kodaki-kushike-gai)

- Type locality: 'la Nouvelle Hollande, dans les madrépores' (Australia, in corals).
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, EC5, P2; South China Sea, Indo-Pacific, Australia.

- Habitat: intertidal to 10 m., boring in soft rocks.
- Original genus: *Petricola*.

□ Genus *Lajonkaira* DESHAYES, 1854-f

Type species: *Venerupis decussata* DESHAYES, 1854 (by tautonymy; = *Venerupis lajonkairii* PAYRAUDEAU, 1826)

B1271 *L. divaricata* (LISCHKE, 1872 in 1868-73)

- Type locality: 'Bucht von Jedo und zwar von Jokohama bis hinaus zur Insel Eno-Sima' (Tōkyō bay, specifically from Yokohama to Enoshima).
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Seto inland sea, EC5.
- Habitat: 5-30 m., fine sand and mud.
- Original genus: *Lucinopsis*.

Family GLAUCONOMIDAE GRAY, 1853

(Refs.: Iw. Taki & Habe, 1955-b)

□ Genus *Glaucanome* GRAY, 1828-a

Type species: *Glaucanome chinensis* GRAY, 1828-a (mt.) (= *Tanysiphon* BENSON, 1858; *Glauconometta* IREDALE, 1936)

B1272 *G. chinensis* GRAY, 1828-a

(= *G. angulata* REEVE, 1844)

Hana-gumori

- Type locality: 'China'.
- Distribution: Tōkyō bay and southwards, P7-P5, Seto inland sea, western Kyūshū (Ariake inland sea), East China Sea, P2; Korea, China (Hong Kong; Shandong), Yellow Sea.
- Habitat: intertidal, mud, in bays.

B1273 *G. corrugata* REEVE, 1844 in 1843-65

Matsu-kaze-hana-gumori

- Type locality: 'Mouths of rivers running into the Bay of Manila (found in the mud at low water)' (Philippines).
- Distribution: Okinawa islands and southwards, ECP2, P2, East China Sea; Philippines, South China Sea.
- Habitat: intertidal, in mud.

B1274 *G. cerea* REEVE, 1844 in 1843-65

Rō-iro-hana-gumori

- Type locality: 'The river Ganges' (India).
- Distribution: P2; Taiwan and southwards, Philippines, South China Sea.
- Habitat: intertidal, mud.

Family TURTONIIDAE CLARK, 1855

□ Genus *Turtonia* ALDER, 1848

Type species: *Venus minutus* FABRICIUS, 1780 (o. d.)

B1275 *T. minuta* (FABRICIUS, 1780)

(= *T. occidentalis* DALL, 1871)

Nomi-hamaguri

- Type locality: Greenland.

- Distribution: northeastern Honshū (Iwate prefecture) and northwards, P9-P10, Hokkaidō, Kuril islands, Okhotsk Sea; Bering Sea, northern Pacific, northern Atlantic.

- Habitat: intertidal on weed.

- Original genus: *Venus*.

Order MYOIDA GOLDFUSS, 1820

Superfamily MYOIDEA LAMARCK, 1809

Family MYIDAE LAMARCK, 1809

(Refs.: Habe, 1951-g)

Subfamily MYINAE GOLDFUSS, 1820

□ Genus *Mya* LINNAEUS, 1758

Type species: *Mya truncata* LINNAEUS, 1758 (s. d.

CHILDREN, 1822 - ICZN op. 94, dir. 72)

(= *Hiatula* MODEER, 1793; *Myarius* DUMÉRIL, 1806)

Subgenus *Mya* s. str.

B1276 *M. (M.) truncata* LINNAEUS, 1758

(= *M. uddevallensis* FORBES, 1846)

Ezo-ōno-gai

- Type locality: 'in *O. Europaeo*' (European seas).
- Distribution: Hokkaidō and northwards, P10, OP, Kuril islands, Okhotsk Sea; Sakhalin to Arctic Ocean, circumpolar, northern Atlantic.
- Habitat: 1-10 m., mud.

Subgenus *Arenomya* WINCKWORTH, 1930

Type species: *Mya arenaria* LINNAEUS, 1758 (o. d.)

B1277 *M. (A.) arenaria oonogai* MAKIYAMA, 1935

Ōno-gai

- Type locality: Japan.
- Distribution: central Kyūshū and northwards, EC5, P5-P10, Japan Sea (J1-J5); Korea, China, Yellow Sea, Bo-hai.
- Habitat: intertidal to 10 m., in bays; mud.

B1278 *M. (A.) japonica* JAY, 1856

Kita-no-ōno-gai

- Type locality: 'Funka bay', (Volcano bay; now Uchiura bay, southeastern Hokkaidō).
- Distribution: northeastern Honshū (Miyagi prefecture) and northwards, P8-P10, Japan Sea (western Hokkaidō, J4-J5); Sakhalin.
- Habitat: intertidal to 10 m., sandy mud.

B1279 *M. (A.) pseudarenaria* SCHLESCH, 1931

(= *M. ovata* JENSEN, 1900 non DONOVAN, 1802)

• Type locality: 'Hunafloi, N. Island' (Iceland).

- Distribution: Japan and Beaufort Sea to Kachemak bay, Alaska.
- Habitat: boring in mud and soft rock.

□ Genus *Tugonia* GRAY, 1842

Type species: *Mya anatina* GMELIN, 1791 (s. d. GRAY, 1847)

B1280 *T. sinensis* XU, 1987

- Type locality: China.
- Distribution: East China Sea; China (Fujian) (BERNARD *et al.*, 1993).

Subfamily **CRYPTOMYINAE HABE, 1977-a**

□ Genus ***Cryptomya* CONRAD, 1848**

Type species: *Sphaenia californica* CONRAD, 1837 (mt.)

B1281 ***C. elliptica* (A. ADAMS, 1851-a)**

(= *C. busoensis* YOKOYAMA, 1922)

Hime-masuhō

- Type locality: Sydney, Australia; 4 fms., mud.
- Distribution: Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Yellow Sea, Red Sea, Indo-Pacific, Australia.
- Habitat: intertidal to 170 m., soft mud.
- Original genus: *Sphaenia*.

B1282 ***C. mindorensis* (ADAMS & REEVE, 1850 in 1848-50)**

- Type locality: Mindoro Sea, Philippines.
- Distribution: 'Pacific coast, 13°-34° N.' (KURODA & HABE, 1952-a); Philippines.
- Original genus: *Mya*.

B1283 ***C. californica* CONRAD, 1848**

Hon-hime-masuhō

- Type locality: California, USA.
- Distribution: northern Japan; 'Gulf of Alaska to northern Peru' (MCLEAN, 1978).
- Habitat: intertidal to 80 m., mud.

□ Genus ***Venatomya* IREDALE, 1930-b**

Type species: *Sphaenia elliptica* A. ADAMS, 1851 (o. d.)

B1284 ***V. truncata* (GOULD, 1861 in 1859-61)**

(= *Cryptomya elliptica* DUNKER, 1882 *non* A. ADAMS, 1868-b; *C. tachibanensis* YOKOYAMA, 1927)

Kushike-masuhō

- Type locality: 'China Sea, lat. 24° N'.
- Distribution: central Honshū (Ise bay) and southwards, P6-P5, Seto inland sea, EC5, East China Sea; Yellow Sea, China (Shandong).
- Habitat: intertidal in bays; mud.
- Original genus: *Cryptomya*.

□ Genus ***Distugonia* IREDALE, 1936-b**

Type species: *Distugonia inopinata* IREDALE, 1936 (o. d.)

B1285 ***D. decurtata* (A. ADAMS, 1851-a)**

(= '*D. decurvata*' *sensu* HABE, 1951-a, 1977-a)

Ofuku-masuhō

- Type locality: Catanuan, Tayabas province, Luzon, Philippines; low water, in sand.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP2, P2, East China Sea; Philippines, western Pacific.

- Habitat: intertidal to 50 m., sandy mud.

- Original genus: *Sphaenia*.

□ Genus ***Sphenia* TURTON, 1822**

Type species: *Sphenia binghami* TURTON, 1822 (s. d. GRAY, 1847)

(= *Shaena*, *Spaeria*, *Spania*, *Sphaenia*, *Sphena*, *Sphenica*, *Syphonia auct.*; *Tyleria* H. & A. ADAMS, 1854)

B1286 ***S. coreanica* HABE, 1951-a**

Ijike-gai

- Type locality: Ulsan, southern Korea (Japan Sea).
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Seto inland sea, Japan Sea (J1), EC5; southern Korea, Yellow Sea.
- Habitat: intertidal to 20 m., among roots of weed on rocks.

□ Genus ***Paramya* CONRAD, 1861**

Type species: *Myalina subovata* CONRAD, 1845 (mt.)

(= *Myalina* CONRAD, 1845 *non* DE KONINCK, 1842)

B1287 ***P. recluzi* (A. ADAMS, 1864-d)**

(= *Basterotia trapezia* YOKOYAMA, 1920)

Hama-kaze-gai

- Type locality: Yobuko, Saga prefecture, northern Kyūshū.
- Distribution: Tōkyō bay (KURODA & HABE, 1981) and westwards, P6-P5, Seto inland sea, Japan Sea (Shimane prefecture, J2-J1), EC5.
- Habitat: 5-50 m., sandy mud in bays.
- Original genus: *Eucharis*.

Family **CORBULIDAE LAMARCK, 1818 in 1815-22**

Subfamily **CORBULINAE LAMARCK, 1818 in 1815-22**

□ Genus ***Corbula* BRUGUIÈRE, 1797 in 1791-1797**

Type species: *Corbula sulcata* LAMARCK, 1801 (s. d. SCHMIDT, 1818)

B1288 ***C. fortisulcata* E. A. SMITH, 1879-a**

(= *C. sulcata* KURODA, 1941; *Aloides formosensis* HABE, 1949)

Shikoro-kuchibeni

- Type locality: 'a few fathoms off Port Blair, Andaman Islands' and others; see TREW, 1993.
- Distribution: P2; Taiwan and southwards, Philippines, China (Beibu gulf; Guangdong), South China Sea, southeast Asia.
- Habitat: subtidal to 20 m., sandy mud.

B1289 ***C. taitensis* LAMARCK, 1818 in 1815-22**

Meoto-gai

- Type locality: 'l'île de Taiti' (Tahiti).
- Distribution: Sagami bay (central Honshū), 'Pacific side, 0°-35° N' (KURODA & HABE, 1952-a).

B1290 ***C. crassa* REEVE, 1843 in 1843-65**

Atsu-kuchibeni

- Type locality: 'Straits of Macassar, Malacca; Bais, Island of Negros, Philippines (found on a floor of coarse sand and gravel at the depth of from three to seven fathoms)'.
- Distribution: East China Sea, P2; Taiwan and southwards, Hong Kong, South China Sea, Australia, Malaysia, Indian Ocean, Indo-Pacific.
- Habitat: intertidal to 20 m., sand.

B1291 *C. sinensis* BERNARD *et al.*, 1993  
(= *Corbula cuneata* HINDS, 1843-d *non* SAY, 1824)  
Kusabi-kuchi-beni

- Type locality: 'Catbalonga, Philippine Islands; from ten fathoms, soft mud. Lagulhas Bank, Cape of Good Hope; from seventy fathoms' (Agulhas bank, South Africa).
- Distribution: 'Pacific coast, 6°-34° N.' (KURODA & HABE, 1952-a); East China Sea, South China Sea, Philippines, intertidal to 200 m. (BERNARD *et al.*, 1993).

B1292 *C. solidula* REEVE, 1843 in 1843-65  
(= *Corbula taiwanensis* NOMURA, 1933)

- Type locality: 'Bais, island of Negros, Philippines; Straits of Macassar'.
- Distribution: East China Sea to Honshū (BERNARD *et al.*, 1993).
- Habitat: intertidal to 10 m., sand and mud.

□ Genus *Anisocorbula* IREDALE, 1930  
Type species: *Corbula macgillivrayi* E. A. SMITH, 1885  
(o. d.)

B1293 *A. scaphoides* (REEVE, 1843 in 1843-65)  
(= *Corbula tosana* YOKOYAMA, 1929)  
Tsuma-beni-gai (= Kumori-kuchibeni)

- Type locality: 'Singapore and Bais, island of Negros, Philippines (found in sandy mud at the depth of seven fathoms)'.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Sado island, J3-J1), EC5, ECP4-ECP2, East China Sea, P2; Philippines, South China Sea, Beibu gulf, Malaysia, Australia, Indo-Pacific.
- Habitat: subtidal to 160 m., sand and mud.
- Original genus: *Corbula*.

B1294 *A. modesta* REEVE, 1843 in 1843-65  
Hina-kuchibeni

- Type locality: 'Island of Ticao, Philippines (dredged from sandy mud at the depth of eight fathoms)'.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, Japan Sea (Wakasa bay, J2-J1), EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Indo-western Pacific.
- Habitat: intertidal to 100 m., sand.
- Original genus: *Corbula*.

B1295 *A. nipponica* HABE, 1961-a  
Inaka-kuchibeni

- Type locality: Tomioka, Amakusa island, western Kyūshū; 30-40 m., fine sand.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Sado island, J3-J1), EC5.
- Habitat: 10-300 m., sand.

B1296 *A. venusta* (GOULD, 1861 in 1859-61)  
Kuchi-benide

- Type locality: 'Hakodadi Bay (Hakodate, Hokkaidō), in shelly sand, 5-8 fathoms'.
- Distribution: southern Hokkaidō (KURODA & HABE, 1981) and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5; Korea, Yellow Sea, Bo-hai, western Pacific.
- Habitat: intertidal to 200 m., sand.
- Original genus: *Corbula*.

□ Genus *Minicorbula* HABE, 1977-a  
Type species: *Anisocorbula minutissima* HABE, 1949 (o. d.)

B1287 *M. minutissima* (HABE, 1949-a)  
Chibi-kuchibeni

- Type locality: Tanabe bay, Kii peninsula (Wakayama prefecture, central Honshū).
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Wakasa bay, J2-J1), EC5.
- Habitat: 10-100 m., sand.
- Original genus: *Anisocorbula*.

□ Genus *Varicorbula* GRANT & GALE, 1931  
Type species: *Tellina gibba* OLIVI, 1792 (o. d.)

B1298 *V. rotalis* (REEVE, 1843 in 1843-65)  
(= *Corbula bifrons* A. ADAMS, 1860-c; *C. substriata* YOKOYAMA, 1922)  
Kodaki-gai (= Suji-kodaki-gai)

- Type locality: 'Calapan, island of Mindoro, Philippine Islands (found in coarse sand at the depth of about fifteen fathoms)'.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Seto inland sea, Japan Sea (southern Niigata prefecture, J3-J1), EC5, East China Sea, P2; South China Sea.
- Habitat: 20-400 m., sand.
- Original genus: *Corbula*.

B1299 *V. yokoyamai* HABE, 1949-a  
(= *Corbula pygmaea* YOKOYAMA, 1922 *non* HANLEY, 1856)  
Mame-kuchibeni

- Type locality: Ōtake, Narita City, Chiba prefecture, central Honshū (fossil).
- Distribution: Tōkyō bay, Seto inland sea.
- Habitat: 5-60 m., sandy mud.

□ Genus *Solidocorbula* **HABE, 1949-a**

Type species: *Corbula erythrodon* LAMARCK, 1818 (o. d.)

B1300 *S. erythrodon* (LAMARCK, 1818 in 1815-22)

Kuchibeni-gai

- Type locality: 'des mers de la Chine et du Japon' (Chinese and Japanese seas).
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea, P2; Korea, coastal China, western Pacific.
- Habitat: intertidal to 50 m., sand and mud.
- Original genus: *Corbula*.

Subfamily **POTAMOCORBULINAE HABE, 1977-a**

□ Genus *Potamocorbula* **HABE, 1955-b**

Type species: *Corbula amurensis* SCHRENCK, 1867 (o. d.; = *Corbula ustulata* REEVE, 1844)

**Note:** Hirata-numa-kodaki is a species cited as *P. cf. laevis* HINDS (HORIKOSHI & OKAMOTO, 1994: Chiribotan vol. 24 (3-4): 77-84).

B1301 *P. ustulata ustulata* (REEVE, 1844 in 1843-65)

(= *Corbula labiata* GRAY *sensu* REEVE, 1844 *non* GRAY, 1825; *C. amurensis* SCHRENCK, 1862; *C. amplexa* A. ADAMS, 1862-b; *C. frequens, pustulosa, sematensis*, all YOKOYAMA, 1922; *C. vladivostokensis* BARTSCH, 1929)

Numa-kodaki-gai

- Type locality: 'Singapore'.
- Distribution: northeastern Honshū (Ibaraki prefecture TSUTSUMI *et al.*, 1997) and northwards, P8-P10, Hokkaidō East China Sea; Korea, China.
- Habitat: 2-20 m., river mouths and marshes; taken in South China Sea, East China Sea and Japan sea as dead shells only.
- Original genus: *Corbula*.

B1303 *P. ustulata takatukayamaensis* ANDŌ, 1965

Kogata-numa-kodaki

- Type locality: foot of Takatsukayama (mountain), Kobe City (fossil).
- Distribution: Seto inland sea (Akashi; Shikanose; Kurushima; Yamaguchi prefecture), Nagasaki prefecture (Nomozaki).

B1304 *P. fasciata* (REEVE, 1843 in 1843-65)

(= *Corbula faba* REEVE, 1843 in 1843-65 *non* DESHAYES, 1824)

Hinode-kodaki-gai

- Type locality: 'Philippine Islands'.
- Distribution: P2, East China Sea; Taiwan and southwards, Philippines, Yellow Sea, China (Shandong), South China Sea, Thailand.

- Habitat: subtidal to 30 m., sand and mud.
- Original genus: *Corbula*.

Superfamily **GASTROCHAENOIDEA GRAY, 1840**

Family **GASTROCHAENIDAE GRAY, 1840**

(Refs.: Iw. Taki & Habe, 1955-a)

□ Genus *Gastrochaena* **SPENGLER, 1783**

Type species: *Gastrochaena cuneiformis* SPENGLER, 1783 (s. d. CHILDREN, 1822)

(= *Chaena* RETZIUS in PHILIPSSON, 1788; *Gastrochoena* BROWN, 1827 *err. pro -chaena*; *Rocellaria* BLAINVILLE, 1828; *Gastrochaenolites* LEYMERIE, 1842; *Gastrochaenoecium, Gastrochaenites* BRONN, 1848 *nom. van.*; *Roxania* PAETEL, 1875 *non* GRAY, 1847; *Dufoichaena* JOUSSEAUME in LAMY, 1925)

Subgenus *Gastrochaena s. str.*

B1305 *G. (G.) cuneiformis* **SPENGLER, 1783**

(= *Fistula gigantea* DESHAYES, 1830; *G. grandis* DUNKER, 1882 *non* *Chaena grandis* DESHAYES, 1854; *Rocellaria lamellosa* EDMONSON, 1924; *R. hawaiiensis* DALL, BARTSCH & REHDER, 1938; *R. hians* TRYON, 1862)

Tsukue-gai

- Type locality: none designated.
- Distribution: Izu peninsula (KURODA & HABE, 1981) and southwards, P6-P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, China, Hawaii, Indo-Pacific.
- Habitat: intertidal to 120 m., boring in coral and shells.

B1306 *G. (G.) ovata* **SOWERBY I, 1834**

• Type locality: '*in Sinu Panamense* (Isle of Perico) *et ad Insulam Platae*. Found in Spondyli at the Isle of Perico, and in coral rocks at a depth of seventeen fathoms at the Island of Plata'.

- Distribution: Honshū to Taiwan; South China Sea, Hong Kong, Philippines, Australia (BERNARD *et al.*, 1993).
- Habitat: intertidal in rocks, shells and dead coral.

□ Genus *Spengleria* **TRYON, 1861**

Type species: *Gastrochaena mytiloides* LAMARCK, 1818 (s. d. STOLICZKA, 1871)

B1307 *S. mytiloides* (LAMARCK, 1818 in 1815-22)

(= *Gastrochaena retzi* DESHAYES, 1862; *G. rostrata* SOWERBY, 1878)

Saya-gai

- Type locality: 'Île de France' (Mauritius).
- Distribution: Mie prefecture (MATSUMOTO, 1979) and southwards, P6-P5, EC5, ECP4-ECP2, P2; Philippines, South China Sea, Thailand, Indo-western Pacific.
- Habitat: 10-50 m., boring in shells.
- Original genus: *Gastrochaena*.

□ Genus *Eufistulana* **EAMES, 1951**



Type species: *Gastrochaena mumia* SPENGLER, 1783 (o. d.)

(= *Fistulana* BRUGUIÈRE, 1789 in 1789-1816 non MÜLLER, 1776; *Fistularia auct.*)

**B1308 *E. grandis* (DESHAYES, 1855-c)**

(= *Vermetus ebaranus* YOKOYAMA, 1927)

Kozutsu-gai

- Type locality: 'Philippines, Zebu' (Cebu).
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Noto peninsula), EC5, East China Sea, P2; South China Sea, Philippines, Hong Kong, southeast Asia, New Caledonia.
- Habitat: 10-100 m., sand.
- Original genus: *Chaena*.

Superfamily **HIATELLOIDEA GRAY, 1824**

Family **HIATELLIDAE GRAY, 1824**

□ Genus ***Hiatella* BOSCH, 1801**

Type species: *Hiatella monoaperta* BOSCH, 1801 (s. d. WINCKWORTH, 1932; = *Mya arctica* LINNAEUS, 1767) (= *Saxicava* DE BELLEVUE, 1802; *Byssonia* BLAINVILLE, 1816; *Didonta* SCHUMACHER, 1817; *Byssomya* OKEN, 1817; *Biapholus* LEACH in LAMARCK, 181; *Biapholus*, *Biaphleus* LEACH, 1847 nom. null.; *Pholeobia* LEACH, 1819; *Agina* TURTON, 1822; *Rhomboides* BLAINVILLE, 1824 non GOLDFUSS, 1820; *Coromya* BROWN, 1844; *Laxicava* CONRAD, 1855 nom. null.; *Spongyophylla* NARDO in BRUSINA, 1866; *Haicana* SACCO, 1901 nom. null.; *Hiicana* SACCO, 1901 err. pro *Hai*-)

**B1309 *H. arctica* (LINNAEUS, 1767)**

(= *Solen minutus* LINNAEUS, 1767; *Mya pholadis* LINNAEUS, 1767; *Hiatella monoptera* BOSCH, 1801; *Saxicava hawaiiensis* DALL, BARTSCH & REHDER, 1938)

Hanashi-kinu-matoi-gai

- Type locality: '*in Oceano Norvegico*' (Norwegian seas)
- Distribution: Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J5, southwestern Hokkaidō), P10, OP, Kuril islands, Okhotsk Sea; Bering Sea to western USA, Arctic Ocean.
- Habitat: intertidal to 1400 m., in crevices or on weed roots; often in abandoned boreholes.
- Original genus: *Mya*.

**B1310 *H. orientalis* (YOKOYAMA, 1920)**

(= *Petricola awana* YOKOYAMA, 1924; *Saxicava flaccida auct. non* GOULD, 1861)

Kinu-matoi-gai (= Ryūgū-kinu-matoi-gai)

- Type locality: Otsu, Yokosuka City, Kanagawa prefecture (near Tōkyō) (fossil).
- Distribution: Hokkaidō and southwards, P10-P5, Japan

Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, East China Sea, P2; Korea, Yellow Sea, China.

- Habitat: intertidal to 30 m., in crevices or on weed roots.
- Original genus: *Saxicava*.

□ Genus ***Cyrtodaria* REUSS, 1801**

Type species: *Mya siliqua* SPENGLER, 1793 (s. d. VOKES & COX, 1961)

(= *Sertodaria* OKEN, 1817 err. pro *Certo*-; *Cyrtodera* BLAINVILLE, 1825 nom. null.; *Glycimeris* LAMARCK, 1801 non LAMARCK, 1799)

**B1311 *C. kurriana* DUNKER, 1862-c**

Kinu-katsugi-mate

- Type locality: Kuril islands.
- Distribution: OP, Okhotsk Sea, Kuril islands and northwards; Sakhalin, Bering Sea, Alaska, Arctic Ocean.
- Habitat: intertidal to 50 m., fine sand and mud.

□ Genus ***Panomya* M. E. GRAY, 1857 in 1842-57**

Type species: *Mya norvegica* SPENGLER, 1793 (mt.) (= *Chaenopea* MAYER, 1884)

**B1312 *P. arctica* (LAMARCK, 1819 in 1815-22)**

Chishima-gai

- Type locality: 'les mers du Nord, dans le sable' (northern seas, in sand).
- Distribution: northeastern Honshū (Fukushima prefecture NEMOTO & AKIMOTO, 1990), Hokkaidō and northwards, P10, OP, Kuril islands, Okhotsk Sea; Bering Sea to Alaska, Arctic Ocean.
- Habitat: intertidal to 80 m., sandy mud.
- Original genus: *Hiatella*.

**B1313 *P. priapus* (TILESIUS, 1820)**

(= *P. beringiana* DALL, 1916; *P. gigantea* KANNO, 1957)

Yatsushima-chishima-gai (= Okina-chishima-gai)

- Type locality: none designated.
- Distribution: Hokkaidō and northwards, P10, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J5), OP, Kuril islands, Okhotsk Sea; Bering Sea.
- Habitat: 50-300 m., mud.
- Original genus: *Mya*.

**B1314 *P. ampla* DALL, 1898-a**

Akubi-chishima-gai

(= *Panopaea norvegica* MIDDENDORFF, 1849 (*pars*) non SPENGLER, 1793)

- Type locality: 'Das Eismeer and den Küsten des Russischen Laplandes (Baer, Midd.); das Weisse Meer (Lamarck); das Ochotskische Meer (Midd.)' (Barents Sea off Lapland; White Sea (southern Barents Sea); Okhotsk Sea).
- Distribution: Hokkaidō and northwards, P10, OP, Kuril islands, Okhotsk Sea; Bering Sea, Arctic Ocean to northern

Europe.

- Habitat: 10-300 m., sandy mud.

**B1315 *P. turgida* DALL, 1916-b**

Harabuto-chishima-gai

- Type locality: Popoff Strait, Shumagin islands, Alaska.
- Distribution: Hokkaidō and northwards, J5, P10, OP, Kuril islands; Sakhalin, Alaska.
- Habitat: 10-50 m., sandy mud.

**Notes:** originally ssp. of *P. arctica*.

**B1316 *P. nipponica* NOMURA & HATAI, 1935**

Shirikire-chishima-gai

- Type locality: Kesen district, Miyagi prefecture, northeastern Honshū.
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, P9-P10, Japan Sea (Oga peninsula, J3-J5).
- Habitat: 50-100 m., mud.

□ Genus ***Panopea* MENARD, 1807**

Type species: *Panopea faujasi* MENARD, 1807 (s. d. FLEMING, 1818; = *Mya glycimereis* BORN, 1778) (= *Glycimereis* LAMARCK, 1799 non DACOSTA, 1778; *Panope* MENARD, 1807 nom. null.; *Panodea* OKEN, 1817 nom. null.; *Panopaea* LAMARCK, 1818 nom. null.; *Myopsis* AGASSIZ, 1840; *Heteromya* MAYER, 1884)

**B1317 *P. japonica* (A. ADAMS, 1850-g)**

(= *P. fragilis* GOULD, 1861; *P. solida* DALL, 1898; *P. tyosiensis* OZAKI, 1952)

Nami-gai (= Okinano-men-gai)

- Type locality: Japan.
- Distribution: Kuril islands, Okhotsk Sea, Hokkaidō, OP, P10-P5, Japan Sea (J5-J1), western Kyūshū; Primoriye region (Japan Sea coast of Russia), Yellow Sea, Bo-hai.
- Habitat: subtidal to 30m, sandy mud.
- Original genus: *Panopaea*.

Superfamily **PHOLADOIDEA LAMARCK, 1809**

Family **PHOLADIDAE LAMARCK, 1809**

Subfamily **PHOLADINAE LAMARCK, 1809**

(Refs.: Iw. Taki & Habe, 1955-b)

□ Genus ***Barnea* LEACH in RISSO, 1826**

Type species: *Barnea spinosa* RISSO, 1826 (o. d.; = *Pholas candida* LINNAEUS, 1758)

(= *Barnia* GRAY, 1840 nom. null.; *Barnia* LEACH, 1852 err. pro -ea)

Subgenus ***Barnea* s. str.**

**B1318 *B. (B.) candida* (LINNAEUS, 1758)**

(= *Pholas papyracea* SPENGLER, 1793; *Barnea spinosa* RISSO, 1826; *Pholas subovata* JEFFREYS, 1865)

Yōroppa-nio-gai

- Type locality: 'in Europae & Americae scopulis marinis' (Europe and America, sea cliffs).
- Distribution: East China Sea; South China Sea, Hainan,

worldwide in warm seas (BERNARD *et al.*, 1993).

- Habitat: intertidal, boring in firm substrates.
- Original genus: *Pholas*.

Subgenus ***Anchomasa* LEACH, 1852**

Type species: *Anchomasa pennantiana* LEACH, 1852 (o. d.; = *Pholas parva* PENNANT, 1777) (= *Anchomosa* LAMY, 1925 nom. null.)

**B1319 *B. (A.) manilensis* (PHILIPPI, 1847-c)**

(= *Pholas fragilis* SOWERBY II, 1849; *P. manilensis inornata* PILSBRY, 1895)

Nio-gai

- Type locality: 'Manila' (Philippines).
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4-ECP2, P2, East China Sea; Yellow Sea, Bo-hai, South China Sea, China (Guangdong; Hong Kong), western Pacific.
- Habitat: intertidal to 20 m., boring in hard mud.
- Original genus: *Pholas*.

**B1320 *B. (A.) davidi* (DESHAYES, 1874)**

Arabori-nio-gai

- Type locality: 'China'.
- Distribution: East China Sea; Taiwan, Yellow Sea, Bo-hai.
- Habitat: intertidal, boring in soft rock.
- Original genus: *Pholas*.

Subgenus ***Umitakea* HABE, 1952-c**

Type species: *Pholadomya japonica* YOKOYAMA, 1920 (o. d.; = *Pholas dilatata* SOULEYET, 1843)

(= *Barnea sensu* HABE, 1952-c non LEACH in RISSO, 1826)

**B1321 *B. (U.) dilatata* (SOULEYET, 1843)**

(= *Pholas latissima* SOWERBY II, 1849; *Pholadomya japonica* YOKOYAMA, 1920)

Umi-take (= Taiwan-umi-take)

- Type locality: 'La baie de Manille' (Manila bay, Philippines).
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5, P2; Yellow Sea, Bo-hai, South China Sea, China, southeast Asia.
- Habitat: 5-20 m., sandy mud.
- Original genus: *Pholas*.

□ Genus ***Nipponopholas* OKAMOTO & HABE, 1987**

Type species: *Nipponopholas satoi* OKAMOTO & HABE, 1987 (mt.)

**B1322 *N. satoi* OKAMOTO & HABE, 1987**

Satō-nio-gai (= Chibi-nio-gai)

- Type locality: off Fukuyoshi port, Itoshima district, Fukuoka prefecture, northern Kyūshū; 40-50 m., boring in

mudstone.

- Distribution: western Kyūshū (Tomioka, Amakusa island); type locality.
- Habitat: 15-50 m., boring in soft rocks.

□ Genus *Zirfaea* LEACH in GRAY, 1842

Type species: *Pholas crispata* LINNAEUS, 1776 (s. d. GRAY, 1847)

(= *Zirphaea*, *Zyrphaea* auct.; *Thurlosia* LEACH in CATLOW & REEVE, 1845)

B1323 *Z. subconstricta* (YOKOYAMA, 1924)

(= *Pholas crispata* auct. non LINNAEUS, 1758; *P. constricta* SOWERBY II, 1849 non PHILIPPI, 1829; *Jouannetia yabei* YOKOYAMA, 1924; *Zirfaea subconstricta kotorai* ŌTSUKA, 1934; *Z. minor* TCHANG, TSI & LI, 1960)

Nio-gai-modoki

- Type locality: Numa, Tateyama City, Chiba prefecture, central Honshū (fossil).
- Distribution: Hokkaidō (KURODA & HABE, 1981) and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5, P2, East China Sea; South China Sea, southeast Asia.
- Habitat: intertidal, boring in soft rock.
- Original genus: *Pholas*.

Subfamily MARTESIINAE GRANT & GALE, 1931

(Refs.: Iw. Taki & Habe, 1955-b)

□ Genus *Martesia* SOWERBY I, 1824 in 1821-34

Type species: *Pholas clavata* LAMARCK, 1818 (o. d.; = *Pholas striata* LINNAEUS, 1758)

B1324 *M. striata* (LINNAEUS, 1758)

(= *Pholas pusillus* LINNAEUS, 1758; *P. falcata* WOOD, 1815; *P. clavata* LAMARCK, 1818 in 1815-22; *P. tenuistriata* BLAINVILLE, 1826; *P. hornbeckii* D'ORBIGNY, 1842; *P. beuiana* RÉCLUZ, 1853; *Martesia teredinaeformis* SOWERBY II, 1849; *Pholas rosea* C. B. ADAMS, 1853; *P. cupula* YOKOYAMA, 1924; *Martesia striata tokyoensis* YOKOYAMA, 1927; *M. pulchella* YOKOYAMA, 1932; *Hiata infelix* ZETEK & MCLEAN, 1936; *Martesia hawaiiensis* DALL, BARTSCH & REHDER, 1938; *Mesopholas nucicola* Iw. TAKI & HABE, 1945-a; *Mesopholas intusgranosa* Iw. TAKI & HABE, 1945-a)

Kamome-gai-modoki (= Chibi-kamome-gai-modoki; Mijin-kamome-gai-modoki)

- Type locality: 'intra scopulos maritimos Europae australis' (in sea cliffs of southern Europe).
- Distribution: northeastern Honshū (Fukushima prefecture) and southwards, P8-P5, EC5, ECP4-ECP2, East China Sea, P2; South China Sea, China (Hong Kong; Hainan; Beibu gulf), Indo-Pacific, worldwide in warm seas.
- Habitat: intertidal and shallow water, in timbers.

- Original genus: *Pholas*.

B1325 *M. ova* (WOOD, 1828 in 1818-28)

- Type locality: 'West Indies' (erroneous).
- Distribution: East China Sea; China (Guangdong; Zhejiang), South China Sea (BERNARD *et al.*, 1993).
- Habitat: intertidal and shallow water, in timber.
- Original genus: *Pholas*.

□ Genus *Aspidopholas* FISCHER, 1887 in 1880-87

Type species: *Pholas scutata* DESHAYES, 1824 (o. d.) (= *Scutigera* COSSMANN, 1886 non LAMARCK, 1801; *Calyptopholas* LAMY, 1927)

B1326 *A. oblecta* (SOWERBY II, 1849 in 1842-87)

(= *Pholadidea cheveyi* LAMY, 1927)

Sango-koromo

- Type locality: 'coral rock, low water, at Turtle's Island, North Coast Australia'.
- Distribution: P2; Taiwan and southwards, South China Sea, Hong Kong, Philippines, Australia.
- Habitat: intertidal and shallow water, boring in shells and limestone.
- Original genus: *Pholas*.

B1327 *A. yoshimurai* KURODA & TERAMACHI, 1930

Ishi-goromo

- Type locality: Nanao bay, Noto peninsula, central Honshū (Japan Sea).
- Distribution: Japan Sea (Nanao bay); Seto inland sea (Kojima bay), western Kyūshū (Chijiwa bay), East China Sea; Yellow Sea, China (Bo-hai; Guangdong), South China Sea.
- Habitat: intertidal, soft rocks, in tubes; in abandoned shipworm tubes.

□ Genus *Penitella* VALENCIENNES, 1846

Type species: *Penitella conradi* VALENCIENNES, 1846 (s. d. HABE, 1952)

(= *Penicilla* CONRAD, 1854 *nom. null.*; *Navea* GRAY, 1851)

B1328 *P. kamakurensis* (YOKOYAMA, 1922)

(= *Parapholas penita* DUNKER, 1882 non CONRAD, 1837-a; *Pholadidea dolichothyra* TCHANG, TSI & LI, 1960; *P. acutiithyra* TCHANG, TSI & LI, 1960; *Navea subglobosa* HAMADA & OKUTANI, 1967 non GRAY, 1851)

Kamome-gai (= Awabi-kui)

- Type locality: Kesho-zaka, Kamakura City, eastern Sagami bay (fossil).
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea; Bo-hai.
- Habitat: intertidal, boring in hard mud, limestone and shells.

- Original genus: *Jouannetia*.

**B1329 *P. chishimana* (HABE, 1955-a)**

(= *Pholadidea* (*Penitella*) *penita sensu* KINOSHITA, 1937 *non* CONRAD, 1837-a)

Chishima-kamome-gai

- Type locality: Paramushir, Kuril islands.
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, Hokkaidō, P9-P10, OP, Kuril islands.
- Habitat: intertidal, boring in hard mud.
- Original genus: *Pholadidea*

□ Genus ***Parapholas* CONRAD, 1848**

Type species: *Pholas californica* CONRAD, 1837 (o. d.)

(= *Paraphola* PAETEL, 1875 *nom. null.*)

**B1330 *P. quadrizonata* (SPENGLER, 1792)**

(= *Pholas incii* SOWERBY II, 1849; *P. piriformis* DUNKER, 1882)

Momo-gai

- Type locality: 'Ostindien' (East Indies).
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2, P2, East China Sea; South China Sea, Beibu gulf, Hainan, Red Sea, Indo-Pacific.
- Habitat: intertidal, boring in coral and hard mud.
- Original genus: *Pholas*.

Subfamily **JOUANNETIINAE TRYON, 1862**

(Refs.: Iw. Taki & Habe, 1955-b)

□ Genus ***Netastomella* CARPENTER, 1865**

Type species: *Netastoma darwinii* SOWERBY in CARPENTER, 1865 (o. d.)

(= *Netastoma* CARPENTER, 1865 *non* *Netastoma* RAFINESQUE, 1810; *Netastomella* PAETEL, 1875 *nom. null.*)

**B1331 *N. japonica* (YOKOYAMA, 1920)**

Yokoyama-suzu-gai

- Type locality: Otsu, Yokosuka, Kanagawa prefecture (near Tōkyō) (fossil).
- Distribution: Hokkaidō (KURODA & HABE, 1981) and southwards, P10-P5, EC5, ECP4.
- Habitat: subtidal to 300 m., boring in hard mud.
- Original genus: *Jouannetia*.

□ Genus ***Jouannetia* DES MOULINS in RANG & DES MOULINS, 1828**

Type species: *Jouannetia semicaudata* DES MOULINS, 1828 (o. d.)

(= *Iouanntia* GRAY, 1840 *nom. van.*; *Juantia* D'ORBIGNY, 1846 *nom. null.*)

**B1332 *J. (J.) cumingii* (SOWERBY II, 1849 in 1842-87)**

Suzu-gai

- Type locality: 'Zebu' (Cebu), island, Philippines.

- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Hainan, Indo-Pacific.

- Habitat: shallow water, boring in coral and limestone.

- Original genus: *Triumphalia*.

Subgenus ***Pholadopsis* CONRAD, 1849-a**

Type species: *Pholadopsis pectinata* CONRAD, 1849 (o. d.)

**B1333 *J. (P.) globulosa* (QUOY & GAIMARD, 1835 in 1832-35)**

(= *Triumphala globosa* SOWERBY II, 1849 in 1842-87)

Toge-suzu-gai (= Maru-suzu-gai)

- Type locality: 'Amboine, à peu près la ville Malaise' (Ambon island, Ceram, Indonesia).
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Sado island, J3-J1), EC5, ECP4-ECP2, P2; South China Sea, Indo-Pacific.
- Habitat: subtidal to 200 m., boring in coral and hard mud.
- Original genus: *Pholas*.

Subfamily **XYLOPHAGAINAE PURCHON, 1941**

(Refs.: Iw. Taki & Habe, 1950)

□ Genus ***Xylophaga* TURTON, 1822**

Type species: *Teredo dorsalis* TURTON, 1819 (o. d.)

(= *Xilophaga* GEINITZ, 1845 *nom. null.*; *Xylotomea* DALL, 1898; *Xilotoma* DALL in GIGOUX, 1934 *nom. null.*; *Protoxylophaga* Iw. TAKI & HABE, 1945-a)

**B1334 *X. indica* E. A. SMITH, 1904-a**

(= *X. japonica* Iw. TAKI & HABE, 1950)

Chōchō-kikui-gai

- Type locality: 'Investigator' sta. 233, off Andaman islands: 13° 17' 15" N., 93 10' E., 185 fms.
- Distribution: Suruga bay and southwards, P6-P5, EC5, East China Sea; Taiwan, South China Sea, Indian Ocean.
- Habitat: 100-200 m., boring in timber.

□ Genus ***Neoxylophaga* Iw. TAKI & HABE, 1950**

Type species: *Xylophaga rikuzenica* Iw. TAKI & HABE, 1945 (o. d.)

**B1335 *N. rikuzenica* (Iw. TAKI & HABE, 1945-a)**

Kikui-gai

- Type locality: off Rikuzen district (Iwate prefecture, northeastern Honshū), ± 100 fms.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5 (Sagami bay OKUTANI, 1962; 1966), Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), East China Sea, ECP2, P2; China (Zhejiang).
- Habitat: 200-1400 m., boring in timber.
- Original genus: *Xylophaga*.

**B1336 *N. lobata* (KNUDSEN, 1961)**

Konoha-kikui-gai

- Type locality: 'Galathea' sta. 444, Sulu Sea: 07° 54' N., 121° 30' E., 5050 m.
- Distribution: Suruga bay and southwards, Mie prefecture (off Owase, 200 m. MATSUMOTO, 1979); Taiwan, South China Sea, Philippines, Sulu Sea.
- Habitat: 200-500 m., boring in timber.
- Original genus: *Xylophaga*.

**B1337 *N. knudseni* OKUTANI, 1975-b**

Kunudosen-kikui-gai

- Type locality: off Izu islands: 30° 46.5' N., 141° 24.4' E., 3100 m.
- Distribution: recorded only from type locality.

□ Genus ***Mesoxylophaga* HABE, 1977-a**

Type species: *Neoxylophaga teramachii* Iw. TAKI & HABE, 1950 (o. d.)

**B1338 *M. teramachii* (Iw. TAKI & HABE, 1950)**

Teramachi-kikui-gai

- Type locality: Tosa bay, southern Shikoku.
- Distribution: Sagami bay (OKUTANI, 1968) and westwards, P6-P5, Tosa bay.
- Habitat: 100-200 m., boring in timber.
- Original genus: *Neoxylophaga*.

□ Genus ***Metaxylophaga* Iw. TAKI & HABE, 1950**

Type species: *Metaxylophaga supplicata* Iw. TAKI & HABE, 1950 (o. d.)

**B1339 *M. supplicata* Iw. TAKI & HABE, 1950**

(= *Xylophaga wolffi* KNUDSEN, 1961)

Inori-kikui-gai (= Gassho-kikui-gai)

- Type locality: Tosa bay, southern Shikoku; 100 fms.
- Distribution: Suruga bay and southwards, P6-P5 (Sagami bay OKUTANI, 1962; 1968), EC5, East China Sea; Taiwan, South China Sea.
- Habitat: 200-5050 m., boring in timber.

Family **TEREDINIDAE RAFINESQUE, 1815**

Subfamily **TEREDININAE RAFINESQUE, 1815**

□ Genus ***Teredo* LINNAEUS, 1758**

Type species: *Teredo navalis* LINNAEUS, 1758 (s. d. ICZN op. 94)

(= *Teredo* MAY, 1929 *nom. null.*; *Terebro auct. err. pro do*; *Teredarius auct.*; *Rochia* MUNARI, 1975 *non* GRAY, 1857)

**B1340 *T. navalis* LINNAEUS, 1758**

(= *T. batava* SPENGLER, 1793; *T. vulgaris* LAMARCK, 1801; *T. japonica* CLESSIN, 1893; *T. sinensis* ROCH, 1929)

Funa-kui-mushi

- Type locality: 'intra Naves & palos marinos, Calamitas Navium, ex indiis propagata' ('in ships and marine piers, wrecks, introduced from the Indies' *trans. auct.*)

- Distribution: all areas of Japan; worldwide in temperate seas.
- Habitat: boring in submerged timbers.

□ Genus ***Lyrodus* BINNEY in GOULD, 1870**

Type species: *Teredo chlorotica* GOULD, 1870 (o. d.) (= *Teredops* BARTSCH, 1921; *Corusteredo* DALL, BARTSCH & REHDER, 1938)

**B1341 *L. pedicellatus* (QUATREFAGES, 1849)**

(= *Teredo siamensis* BARTSCH, 1927; *T. yatsui* MOLL, 1929; *T. bibicola* KURONUMA, 1931; *T. tateyamensis* KURONUMA, 1931; *T. taiwanensis* Iw. TAKI & HABE, 1945)

Yatsu-funa-kui-mushi (= Tateyama-funa-kui-mushi)

- Type locality: 'baie des Passages (Guipuscoa)'
- Distribution: all Japan south of Hokkaidō; worldwide in tropical and temperate zones.
- Habitat: intertidal and shallow water, in timber.
- Original genus: *Teredo*.

**B1342 *L. takanoshimensis* ROCH in ROCH & MOLL, 1929**

(= *Teredo dichroa* ROCH, 1929)

Takanoshima-funa-kui-mushi

- Type locality: Takanoshima, Tateyama bay, southern Bōsō peninsula.
- Distribution: recorded only from type locality.

**B1343 *L. samoensis* (MILLER, 1924)**

- Type locality: Samoa.
- Distribution: East China Sea; Yellow Sea, Bo-hai, Indo-Pacific (BERNARD *et al.*, 1993).
- Habitat: intertidal and shallow water, in timber.

□ Genus ***Nototeredo* BARTSCH, 1923-a**

Type species: *Teredo edax* HEDLEY, 1895 (o. d.) (= *Phylloteredo* MOLL & ROCH, 1937)

**B1344 *N. edax* (HEDLEY, 1894)**

(= *Teredo hydei* SIVICKIS, 1928; *T. appendiculata* SIVICKIS, 1928; *Psiloteredo septa* MAWATARI & KITAMURA, 1960; *P. pentagonalis* Iw. TAKI & HABE, 1945-a)

Ōshima-funa-kui-mushi (= Uchiwa-funa-kui-mushi)

- Type locality: 'Port Adelaide, South Australia'.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), ECP5, ECP4-ECP2, P2; Philippines, South China Sea, Australia, western Pacific.
- Habitat: Shallow water, in timber.
- Original genus: *Teredo*.

**B1345 *N. kirai* (Iw. TAKI & HABE, 1945-a)**

Kira-funa-kui-mushi

- Type locality: Tosa bay, southern Shikoku; 200 fms.

- Distribution: Kii peninsula (KURODA & HABE, 1981) to Tosa bay.
- Habitat: 100-400 m., in timber.
- Original genus: *Psiloteredo* (*Phylloterodo*).

□ Genus ***Teredothyra* BARTSCH, 1921**

Type species: *Teredo (Teredothyra) dominicensis* BARTSCH, 1921 (o. d.)

(= *Ungoterodo* BARTSCH, 1927-b; *Idioterodo* Iw. TAKI & HABE, 1945-a)

B1346 ***T. smithi* (BARTSCH, 1927-b)**

(= *Teredo radcliffei* BARTSCH, 1927-b; *Kuphus (Idioterodo) kiiensis* Iw. TAKI & HABE, 1945-a)

Gunbai-funa-kui-mushi (= Kii-gunbai-funa-kui-mushi)

- Type locality: 'Albatross' sta. 5266, off Matocot Point, Luzon, Philippines.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, tropical Pacific.
- Habitat: 100-200 m., in timber.
- Original genus: *Teredo* (*Teredothyra*).

B1347 ***T. matocotana* (BARTSCH, 1927-b)**

Hizume-funa-kui-mushi

- Type locality: 'Albatross' sta. 5366, Matocot Point, Luzon, Philippines.
- Distribution: Tosa bay (southern Shikoku) and southwards, P2; Taiwan, Philippines, South China Sea, Hainan.
- Habitat: shallow water in floating timber.
- Original genus: *Teredo*.

□ Genus ***Zopoterodo* BARTSCH, 1923-a**

Type species: *Teredo (Zopoterodo) clappi* BARTSCH, 1923 (o. d.)

B1348 ***Z. triangularis* (EDMONSON, 1942)**

(= *Kuphus (Coeloterodo) teredoides* Iw. TAKI & HABE, 1945-a)

Niyori-funa-kui-mushi

- Type locality: Hawaii.
- Distribution: Tosa bay (southern Shikoku); Hawaii.
- Habitat: in timber.
- Original genus: *Teredo*.

□ Genus ***Coleoterodo* BARTSCH, 1923-a**

Type species: *Teredo (Coleoterodo) mindanensis* BARTSCH, 1923 (o. d.)

B1349 ***C. mindanensis* (BARTSCH, 1923-a)**

(= *Teredo bayeri* ROCH, 1955)

Katabira-funa-kui-mushi

- Type locality: 'Albatross' sta. 5252, off Linao Point, Mindanao, Philippines.
- Distribution: Tosa bay (southern Shikoku), P2; Taiwan

and southwards, South China Sea, Philippines, Indian Ocean.

- Habitat: shallow water, in timber.
- Original genus: *Teredo* (*Coleoterodo*).

□ Genus ***Austroteredo* HABE, 1952-c**

Type species: *Teredo parksi* BARTSCH, 1921 (o. d.)

B1350 ***A. parksi* (BARTSCH, 1921)**

Minami-funa-kui-mushi

- Type locality: Pearl Harbour, Oahu, Hawaii.
- Distribution: Tosa bay (southern Shikoku) and southwards, P5, ECP4-ECP2, P2; Philippines, South China Sea, Hawaii.
- Habitat: in floating timber.
- Original genus: *Teredo*.

□ Genus ***Teredora* BARTSCH, 1921**

Type species: *Teredo malleolus* TURTON, 1822 (o. d.) (= *Malleolus* GRAY, 1847 non EHRENBERG, 1838)

B1351 ***T. princesae* (SIVICKIS, 1928)**

(= *Teredo diderichseni* ROCH, 1929; *Teredo sparki* ROCH, 1931; *Teredo gregoryi* DALL, BARTSCH & REHDER, 1938)

Kochō-funa-kui-mushi

- Type locality: Indian Ocean.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, ECP4-ECP2, P2; Philippines, South China Sea, Indo-Pacific, Hawaii.
- Habitat: subtidal to 150 m., in timber and coconuts.
- Original genus: *Teredo*.

□ Genus ***Uperotus* GUETTARD, 1770 in 1768-70**

Type species: *Teredo clava* GMELIN, 1791 (s. d. LAMY, 1927)

(= *Fistulana* LAMARCK, 1799 non MÜLLER, 1778; *Fistulanigenus* RENIER, 1807; *Guetera* GRAY, 1847; *Hyperotus* HERRMANNSEN, 1849 nom. van.; *Hyperotis* PAETEL, 1875 nom. null.; *Guettera* H. & A. ADAMS nom. null.; *Glumebra* IREDALE, 1938)

B1352 ***U. clavus* (GMELIN, 1791)**

(= *Glumebra elegans* IREDALE, 1936; *G. shionomisakiensis* HABE, 1953-d)

Boro-uchiwa-funa-kui-mushi (= Shibu-uchiwa-funa-kui-mushi)

- Type locality: 'in *Xylocarpi granati pericarpiis*' (in hard corals); no locality designated.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, ECP4-ECP2, P2; Philippines, South China Sea, Australia, Thailand, Indo-Pacific.
- Habitat: shallow water in timber and coconuts.
- Original genus: *Teredo*.

Subfamily **BANKIINAE TURNER, 1966**

□ Genus *Bankia* GRAY, 1842

Type species: *Teredo bipalmulata* LAMARCK, 1801 (s. d. GRAY, 1847)

(= *Xyotrypa* LEACH in GRAY, 1847 non MENKE, 1830; *Xylotyra*, *Xylotria*, *Xylotyra*, *Hylotrypa auct. nom. null.*; *Spathoteredo* MOLL & ROCH, 1937 non MOLL, 1928; *Bankiura* MOLL, 1952)

Subgenus *Bankia* s. str.

B1353 *B. (B.) bipalmulata* (LAMARCK, 1801)

(= *B. rubra* SIVICKIS, 1928)

Ō-funa-kui-mushi

- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, EC5, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, Indo-Pacific.
- Habitat: shallow water, in timber.
- Original genus: *Teredo*.

B1354 *B. (B.) kingyokuensis* ROCH, 1929

Kingyoku-ō-funa-kui-mushi

- Type locality: Takashima, Tateyama bay, southern Bōsō peninsula.
- Distribution: Bōsō peninsula and southwards, P7-P5.
- Habitat: subtidal in timber.

B1355 *B. (B.) rochi* MOLL in MOLL & ROCH, 1931

(= *B. (B.) komaii* Iw. TAKI & HABE, 1945-a)

Komai-ō-funa-kui-mushi

- Type locality: 'Christmas Island, south of Java' (southeastern Indian Ocean).
- Distribution: Tosa bay (southern Shikoku) and southwards, P5, ECP4; Indo-Pacific.
- Habitat: subtidal, in timber.

B1356 *B. (B.) setacea* (TRYON, 1863)

(= *B. inoi* HABE, 1952 *nom. nud.*; *B. (Neobankia) osumiensis* MAWATARI & KITAMURA, 1960)

Kita-ō-funa-kui-mushi

- Type locality: Bay of San Francisco, California.
- Distribution: Hokkaidō and northwards, J5-J6, P10, OP, Okhotsk Sea; Sakhalin, Bering Sea, Alaska, western USA.
- Habitat: intertidal to 100 m., in timber.
- Original genus: *Xylotrypa*.

Subgenus *Neobankia* BARTSCH, 1921

Type species: *Banki (Neobankia) zeteki* BARTSCH, 1921 (o. d.)

(= *Deviobankia* IREDALE, 1932)

B1357 *B. (N.) philippinensis* BARTSCH, 1927

(= *B. tenuis* SIVICKIS, 1928)

Kushi-ō-funa-kui-mushi

- Type locality: 'Albatross' sta. 5243, Pujada Bay, Mindanao, Philippines.
- Distribution: southern Kyūshū and southwards, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea,

China (Hainan; Beibu gulf).

- Habitat: shallow water, in floating timber.

Subgenus *Lyrodobankia* MOLL, 1941

Type species: *Nausitora kamiyai* ROCH, 1929 (o. d.; = *Teredo carinata* GRAY, 1827)

(= *Bankiopsis* CLENCH & TURNER, 1946)

B1358 *B. (L.) carinata* (GRAY, 1827)

(= *B. oryzaeformis* SIVICKIS, 1928; *Nausitora orientalis* ROCH, 1929; *N. kamiyai* ROCH, 1929; *Bankia kuronuma* ROCH, 1929; *B. nakazawai* KURONUMA, 1931)

Yase-ō-funa-kui-mushi (= Kuronuma-ō-funa-kui-mushi)

- Type locality: 'Sumatra' (Indonesia).
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, EC5, ECP4-ECP2, P2, East China Sea; South China Sea, China (Hong Kong), Indo-Pacific.
- Habitat: 17-80 m., in timber.
- Original genus: *Teredo*.

Subgenus *Plumulella* CLENCH & TURNER, 1946

Type species: *Bankia fimbriatula* MOLL & ROCH, 1931 (o. d.)

B1359 *B. (Plumulella) fimbriatula* MOLL & ROCH, 1931

(= *Teredo fimbriata* JEFFREYS, 1860 non DEFRANCE, 1828; *Bankia inoi* HABE, 1952 *nom. nud.*)

Kanzashi-ō-funa-kui-mushi

- Type locality: Leith, Scotland; in driftwood.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, East China Sea, P2; South China Sea to western India, worldwide in floating timber.

Subfamily ZACHSIINAE HABE, 1977-a

□ Genus *Zachsia* BULATOV & RYABTSCHIKOV, 1933

Type species: *Zachsia zenkewitschi* BULATOV & RYABTSCHIKOV, 1933

(= *Zachia* TURNER, 1966 *err. pro -sia*)

B1360 *Z. zenkewitschi* BULATOV & RYABTSCHIKOV, 1933

(= *Z. lignau* BULATOV & RYABTSCHIKOV, 1933)

Nemuguri-gai

- Type locality: Japan.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and northwards, EC5, Japan Sea (J1-J5); Primoriye region (Japan Sea coast of Russia), Siberia.
- Habitat: subtidal, boring in stems of weeds *Zostera marina* and *Phyllospadix scouleri*.

Subfamily KUPHINAE TRYON, 1862

□ Genus *Kuphus* GUETTARD, 1770 in 1768-70

Type species: *Serpula polythalamia* LINNAEUS, 1758 (s. d. GRAY, 1847)

( = *Furcella* LAMARCK, 1801; *Septaria* LAMARCK, 1818 in 1815-22 *non* FÉRUSAC, 1807; *Clossommaria* FÉRUSAC, 1821; *Claussaria* MENKE, 1828; *Bicornia*, *Microvexillum*, *Proteredo*, all MAY, 1929 (invalid).

**B1361 *K. polythalamia* (LINNAEUS, 1767)**

( = *Teredo gigantea* HOME, 1806; *Septaria arenaria* LAMARCK, 1818 in 1815-22; *Teredo dubia* SIVICKIS, 1928)

Entotsu-gai

- Type locality: 'in Indiis'.
- Distribution: P2; Taiwan and southwards, Philippines, South China Sea, Indo-Pacific.
- Habitat: intertidal, mud among mangroves.
- Original genus: *Serpula*.

Subclass **ANOMALODESMATA DALL, 1889**

Order **PHOLADOMYOIDA NEWELL, 1965**

Superfamily **PHOLADOMYOIDEA GRAY, 1847**

Family **PHOLADOMYIDAE GRAY, 1847**

(Refs.: Habe, 1952-e)

□ Genus *Pholadomya* SOWERBY I, 1823 in 1821-34

Type species: *Pholadomya candida* SOWERBY I, 1823 (s. d. GRAY, 1847)

( = *Pholadomyaea*, *Pholadomia*, *Phaladomya*, *Pholdomya*, *Pholadonya auct. nom. null.*; *Flabellomya* ROLLIER, 1911)

**B1362 *P. pacifica* DALL, 1907-c**

Umi-take-modoki

- Type locality: 'Albatross' sta. 4807, off Hakodate, Hokkaidō (81 m.), and sta. 4904, near Nagasaki.
- Distribution: southern Hokkaidō (KURODA & HABE, 1981) and southwards, P10-P5, Japan Sea (Tsugaru peninsula, J4-J1), EC5, East China Sea.
- Habitat: 50-200 m., sandy mud.

Family **PARILIMYIDAE MORTON, 1982**

□ Genus *Nipponopanacca* HABE, 1977-a

Type species: *Pholadomya (Panacca) sakuraii* HABE, 1958 (mt.)

**B1363 *N. sakuraii* (HABE, 1958-e)**

Tsugi-no-umi-take-modoki

- Type locality: 'Wakayama prefecture, Honshū'.
- Distribution: Kii peninsula (KURODA & HABE, 1981) to Tosa bay (southern Shikoku).
- Habitat: 200 m., sandy mud.
- Original genus: *Pholadomya (Panacca)*.

**B1364 *N. laevicaudata* (MATSUKUMA, 1989-a)**

Mosuso-umi-take-modoki

- Type locality: 'off Cape Noshap' (Noshappu), Wakkanai, northwestern Hokkaidō; 50-60 m.
- Distribution: central Honshū (Enshū-nada) and northwards, P6-P10, Japan Sea (southern Oki islands and

northwards, J2-J6).

- Habitat: 40-150 m., mud.
- Original genus: *Pholadomya (Nipponopanacca)*.

Superfamily **THRACIOIDEA STOLICZKA, 1870 in 1870-71**

Family **PERIPLOMATIDAE DALL, 1895**

(Refs.: Bernard, 1989)

□ Genus *Halistrepta* DALL, 1904-b

Type species: *Periploma sulcata* DALL, 1904 (mt.)

**B1365 *H. pacifica* (OKUTANI, 1962)**

Izu-no-hagoromo

- Type locality: 'Sōyō-Maru' sta. B2, 26 miles off Miyake island, Izu islands: 34° 10.0' N., 140° 02.3' E., 1230-1350 m.
- Distribution: recorded only from type locality.
- Original genus: '*Periploma (Halistrepta?)*'

□ Genus *Offadesma* IREDALE, 1930-b

Type species: *Periploma angasi* CROSSE & FISCHER, 1864 (o. d.)

**B1366 *O. nakamigawai* KURODA & HORIKOSHI, 1952-a**

Onaga-ryūgū-hagoromo

- Type locality: off Zushi, Sagami bay, central Honshū.
- Distribution: central Honshū (western Sagami bay; Suruga bay; Ise bay).
- Habitat: 10-50 m., fine sand.

□ Genus *Takashia* BERNARD, 1989

Type species: *Periploma plane* OZAKI, 1958 (o. d.)

**B1367 *T. plane* (OZAKI, 1958)**

( = *Periploma ovata* KURODA & HORIKOSHI, 1958-a *non* D'ORBIGNY, 1846; *P. japonicum* BERNARD, 1989) Ryūgū-hagoromo

- Type locality: Chōshi City, Chiba prefecture, central Honshū (fossil).
- Distribution: off Chōshi and southwards, P7-P5, Japan Sea (Niigata prefecture and southwards, J3-J1), EC5, East China Sea; Korea, Yellow Sea.
- Habitat: 100-1220 m., sand.
- Original genus: *Periploma*.

**B1368 *T. otohimeae* (HABE, 1952-c)**

Otohime-hagoromo

- Type locality: Tosa bay (southern Shikoku).
- Distribution: Sagami bay (OKUTANI, 1962), Tosa bay and southwards, P5, EC5, East China Sea; Yellow Sea.
- Habitat: 150-1250 m., mud.
- Original genus: *Periploma (Aperiploma)*.

Family **LATERNULIDAE HEDLEY, 1918**

(Refs.: Habe, 1952-g)

□ Genus *Laternula* RÖDING, 1798



Type species: *Laternula anatina* RÖDING, 1798 (s. d. GRAY, 1847; = *Solen anatinus* LINNAEUS, 1758) (= *Auriscalpium* MÜHLFELD, 1811; *Butorella* STRAND, 1928; *Butor* GISTL, 1848 non FORESTER, 1827; *Anantina* LAMARCK, 1818 in 1815-22 non SCHUMACHER, 1817)

Subgenus *Laternula s. str.*

**B1369 *L. (L.) anatina* (LINNAEUS, 1758)**

(= *Anatina subrostrata* LAMARCK, 1818 in 1815-22; *A. cumingii*, *bullata*, *blainvillei*, all VALENCIENNES in REEVE, 1860 in 1843-65; *A. flexuosa*, *valenciennesii*, *amphora*, *eximia*, all REEVE, 1863 in 1843-65; *A. japonica* LISCHKE, 1872)

Okina-gai (= Yose-okina-gai)

- Type locality: 'in *O. Asiatici fundo arenoso*' (Asian seas, sand bottom).
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea, P2; Korea, Yellow Sea, Bo-hai, South China Sea, Philippines, Thailand, Red Sea, Indo-Pacific.
- Habitat: intertidal to 60 m., sandy mud.
- Original genus: *Solen*.

**B1370 *L. (L.) boschasina* (VALENCIENNES in REEVE, 1860 in 1843-65)**

(= *Anatina impura* PILSBRY, 1901)

Ko-okina-gai

- Type locality: Japan.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, EC5, East China Sea, P2; Yellow Sea, China (Shandong), South China Sea, Indo-western Pacific.
- Habitat: intertidal, sandy mud.
- Original genus: *Anatina*.

**B1371 *L. (L.) siphonata* (REEVE, 1863 in 1843-65)**

- Type locality: 'Borneo'.
- Distribution: 'Pacific side, 0°-26° N.' (KURODA & HABE, 1952-a); South China Sea, Taiwan (BERNARD *et al.*, 1993).
- Habitat: intertidal, mud.
- Original genus: *Anatina*.

Subgenus *Exolaternula* HABE, 1977-a

Type species: *Anatina truncata* LAMARCK, 1818 (mt.)

**B1372 *L. (E.) truncata* (LAMARCK, 1818 in 1815-22)**

(= *Anatina rostrata* SOWERBY II in REEVE, 1842)

Hiro-kuchi-sotori-gai

- Type locality: 'Nouvelle Hollande' (Australia).
- Distribution: southern Kyūshū and southwards, ECP4-ECP2, P2, East China Sea; Philippines, South China Sea, southeast Asia, northern Australia.

- Habitat: intertidal, sandy mud.
- Original genus: *Anatina*.

**B1373 *L. (E.) marilina* (REEVE, 1860 in 1843-65)**

(= *Anatina cistella*, *navicula*, *limicola*, all REEVE, 1863 in 1843-65; *A. kamakurana* PILSBRY, 1895; *A. pechiliensis* GRABAU & KING, 1928)

Sotori-gai (= Usu-ginu-gai)

- Type locality: 'Australia'.
- Distribution: all areas of Japan; Okhotsk Sea, Sakhalin, Yellow Sea, South China Sea, Philippines, Malaysia, southeast Asia, Indo-Pacific.
- Habitat: intertidal to 20 m., sandy mud.
- Original genus: *Anatina*.

Family **THRACIIDAE STOLICZKA, 1870 in 1870-71**

□ Genus *Thracia* LEACH in BLAINVILLE, 1824 in 1816-30

Type species: '*Thracia pubescens* LAMARCK' (s. d. ANTON, 1839; = *Mya pubescens* PULTENEY, 1799) (= *Thracia* LEACH in SOWERBY, 1823 *nom. nud.*; *Throna* CARPENTER, 1859 *nom. null.*; *Osteodesma* DESHAYES in BLAINVILLE, 1825; *Odoncineta* DACOSTA, 1829; *Coromya* AGASSIZ, 1843 non DONOVAN, 1802; *Homeodossa* FISCHER, 1887; *Catothrax* IREDALE, 1949)

**B1374 *T. kakumana* YOKOYAMA, 1927**

(= *T. pubescens sensu* YOKOYAMA, 1923 non PULTENEY, 1799)

Suemono-gai

- Type locality: 'Kaga province' (now Ishikawa prefecture, central Honshū; fossil).
- Distribution: northeastern Honshū (Iwate prefecture) and northwards, P9-P10, Japan Sea (Sado island, J3-J6), Hokkaidō, OP; Primoriye region (Japan Sea coast of Russia).
- Habitat: 4-300 m., sandy mud.

**B1375 *T. itoi* HABE, 1961-a**

Fukure-suemono-gai

- Type locality: Onagawa bay, Miyagi prefecture, northeastern Honshū.
- Distribution: Miyagi prefecture and northwards, P8-P9, P10; Primoriye region (Japan Sea coast of Russia).
- Habitat: 10-50 m., sandy mud.

□ Genus *Cyathodonta* CONRAD, 1849-a

Type species: *Cyathodonta undulata* CONRAD, 1849 (mt.)

**B1376 *C. granulosa* (ADAMS & REEVE, 1850 in 1848-50)**

Sunago-suemono-gai

- Type locality: 'China Sea'.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Seto inland sea, Japan Sea (Noto

peninsula, J2-J1), EC5, East China Sea.

• Habitat: 10-100 m., sandy mud.

□ Genus *Eximiothracia* IREDALE, 1924-b

Type species: *Thracia speciosa* ANGAS, 1869 (o. d.)

B1377 *E. concinna* (GOULD, 1861 in 1859-61)

(= *Thracia papyracea* YOKOYAMA, 1922 non POLI, 1777)

Shinayaka-suemono-gai

- Type locality: 'Kagosima Bay' (Kagoshima, southern Kyūshū).
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Seto inland sea, Japan Sea (Sado island, J3-J1), EC5.
- Habitat: 10-150 m., sand.
- Original genus: *Thracia*.

B1378 *E. koyamai* HABE in KURODA & HABE, 1981

Koyama-suemono-gai

- Type locality: off Kushimoto, southern Kii peninsula, central Honshū; ± 50 m.
- Distribution: Kii peninsula to Sagami bay (KURODA & HABE, 1981).
- Habitat: in sand; taken in lobster nets.

□ Genus *Trigonothracia* YAMAMOTO & HABE, 1959

Type species: *Thracia (Trigonothracia) nomurai* YAMAMOTO & HABE, 1959 (o. d.; = *Thracia pusilla* GOULD, 1861)

B1379 *T. pusilla* (GOULD, 1861 in 1859-61)

(= *Thracia nomurai* YAMAMOTO & HABE, 1959)

Nomura-suemono-gai

- Type locality: 'Simoda' (Shimoda, Izu peninsula, central Honshū).
- Distribution: southern Hokkaidō and southwards, P10-P5, Seto inland sea, EC5; Yellow Sea, China (Shandong).
- Habitat: 10-40 m., sandy mud in bays.
- Original genus: *Thracia*.

B1380 *T. jinxiingae* XU, 1980

Chūka-suemono-gai

- Type locality: east China Sea: 30° 15' N., 122° 30' E., 25 m., mud.
- Distribution: East China Sea; Yellow Sea, China (Shandong; Bo-hai) (BERNARD *et al.*, 1993).
- Habitat: 5-40 m., soft mud.

□ Genus *Ixartia* LEACH, 1852

Type species: *Mya disorta* MONTAGU, 1803 (mt.)

B1381 *I. cuneolus* (REEVE, 1859 in 1843-65)

Matsukaze-suemono-gai

- Type locality: Philippines.
- Distribution: Kii peninsula (KURODA & HABE, 1981)

and southwards, Seto inland sea, P5, ECP4-ECP2, P2, East China Sea; Philippines.

- Habitat: 10-150 m., sand.
- Original genus: *Thracia*.

□ Genus *Asthenothaerus* CARPENTER, 1864-c

Type species: *Asthenothaerus villosior* CARPENTER, 1864 (mt.)

B1382 *A. sematana* (YOKOYAMA, 1922)

Semata-suemono-gai (= Semata-ko-suemono-gai)

- Type locality: Semata, Ichihara City, Chiba prefecture, central Honshū (fossil).
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oga peninsula, J3-J1), EC5.
- Habitat: 20-300 m., fine sand.
- Original genus: *Thracia*.

B1383 *A. isaotakii* OKUTANI, 1964-a

Taki-suemono-gai

- Type locality: Sagami bay, central Honshū: 35° 05.35' N., 139° 18.65' E., 550 m.
- Distribution: Sagami bay.00
- Habitat: 550-700 m.

□ Genus *Thracidora* IREDALE, 1924-b

Type species: *Thraciopsis arenosa* HEDLEY, 1904 (o. d.)

B1384 *T. japonica* HABE, 1952-c

Watazoko-suemono-gai

- Type locality: Tosa bay, southern Shikoku; ± 200 m.
- Distribution: Sagami bay (KURODA & HABE, 1981) and westwards, P6-P5, Tosa bay.
- Habitat: 100-200 m., sand.

Superfamily CLAVAGELLOIDEA D'ORBIGNY, 1844

Family CLAVAGELLIDAE D'ORBIGNY, 1844

(Refs.: Habe, 1952-e; Smith, 1976)

□ Genus *Clavagella* LAMARCK, 1818 in 1815-22

Type species: *Clavagella echinata* LAMARCK, 1818 (s. d. CHILDREN, 1823)

(= *Bacilia VALENCIENNES* in GRAY, 1858)

Subgenus *Bryopa* GRAY, 1847

Type species: *Clavagella aperta* SOWERBY I, 1823 (o. d.)

B1385 *C. (B.) lata* BRODERIP, 1835-a

(= *C. elongata* BRODERIP, 1835-a)

Sango-tsutsu-gaki

- Type locality: 'Pacific'.
- Distribution: Kii peninsula and southwards, P5, ECP4-ECP2, Okinawa (NAKAMINE & HABE, 1980), P2, East China Sea; Philippines, South China Sea, Indo-western Pacific.
- Habitat: 10-50 m., sandy mud.

Subgenus *Dacosta* GRAY, 1858-b

Type species: *Clavagella australis* SOWERBY I, 1827

(mt.)

B1386 *C. (D.) australis* SOWERBY I, 1827  
(= *C. japonica* HABE in KURODA & HABE, 1981)

Kubitate-tsutsu-gaki (= Indo-tsutsu-gaki)

- Type locality: 'Port Jackson' (Sydney, Australia).
- Distribution: Kii peninsula and southwards, P5, Okinawa (Miyako islands); Australia, Thailand, South Africa.
- Habitat: 40-100 m., sandy mud.

Subgenus *Stirpulinola* KURODA & HABE in  
KURODA *et al.*, 1971

Type species: *Clavagella ramosa* DUNKER, 1882

B1387 *C. (S.) ramosa* DUNKER, 1882

Hama-yū-gai

- Type locality: 'Apud Japanos, 'Hama Kōrohama mo-men' *apellatur*' (from the place known among the Japanese as 'Hama Kōrohama mo-men' *trans. auct.*; probably a misspelling of *hō-men*. Kōrohama is on the Japan Sea coast of central Honshū.). Type locality given as 'Wakayama, Honshū' by KURODA *et al.* (1971).
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Toyama bay, J3-J1), EC5, P2; Yellow Sea.
- Habitat: 50-200 m., coarse sand and stones.

Subgenus *Nipponoclava* SMITH, 1976

Type species: *Aspergillum giganteum* SOWERBY III, 1888 (o. d.)

B1388 *C. (N.) gigantea* (SOWERBY III, 1888)

(= *Brechites yokoyamai* SHIKAMA, 1954)

Tsutsu-gaki

- Type locality: Japan.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, ECP4.
- Habitat: 5-40 m., coarse sand and stones.
- Original genus: *Aspergillum*.

□ Genus *Penicillus* BRUGUIÈRE, 1789 in 1789-1816

Type species: *Penicillus javanus* BRUGUIÈRE, 1789 in 1789-1816 (s. d. HABE, 1952; = *Serpula penis* LINNAEUS, 1758)

Subgenus *Warnea* GRAY, 1858

Type species: *Aspergillum australe* CHENU, 1843 (s. d. STOLICZKA, 1871)

B1389 *P. (P.) nagahamai* KOSUGE, 1979-b

Nagahama-tsutsu-gaki

- Type locality: Manzamo (beach), Okinawa; ± 30 m.
- Distribution: Izu peninsula and southwards, southern Kyūshū (Kagoshima), Okinawa islands.
- Habitat: 10-50 m., coarse sand and stones.

Subgenus *Foegia* GRAY, 1842

Type species: *Penicillus novaezelandiae* BRUGUIÈRE,

1789 in 1789-1816 (o. d.)

B1390 *P. (F.) novaezelandiae* (BRUGUIÈRE, 1789 in 1789-1816)

Yorime-tsutsu-gaki

- Type locality: 'de la nouvelle Zélande' (New Zealand).
- Distribution: Okinawa (Nago City NAKAMINE & HABE, 1980); western Australia to Queensland.
- Original genus: *Penicillus*.

Superfamily PANDOROIDEA RAFINESQUE, 1815

Family LYONSIIDAE FISCHER, 1887

(Refs.: Habe, 1952-d)

□ Genus *Lyonsia* TURTON, 1822

Type species: *Mya striata* MONTAGU, 1815 (mt.; = *Mya norwegica* GMELIN, 1791)

(= *Hiatella* BROWN, 1827 non BOSC, 1801; *Magdala* LEACH in BROWN, 1827; *Osteodesma* DESHAYES, 1830 non BLAINVILLE, 1825; *Myatella* BROWN, 1833; *Pandorina* SCACCHI, 1833 non BORY, 1827; *Tetragonostea* DESHAYES in HERRMANNSEN, 1849)

B1391 *L. ventricosa* GOULD, 1861 in 1859-61

(= *L. rostrata* LISCHKE, 1874; *L. praetenuis* DUNKER, 1882; *L. kawamurai* HABE, 1952-d)

Sazanami-gai (= Kawamura-sazanami-gai)

- Type locality: 'Hakodadi Bay (Hakodate, Hokkaidō), 2-6 fathoms, sandy mud'.
- Distribution: southern Hokkaidō (KURODA & HABE, 1981) and southwards, P10-P5, Japan Sea (Sado island, J3-J1), EC5, East China Sea; Primoriye region (Japan Sea coast of Russia), Yellow Sea, China (Shandong), Taiwan.
- Habitat: 5-200 m., sand and mud.

B1392 *L. tanakai* HABE in KURODA & HABE, 1981

Shintei-sazanami-gai

- Type locality: off Minabe, Kii peninsula (Wakayama prefecture), central Honshū; ± 200 m.
- Distribution: Enshū-nada to Kii peninsula (KURODA & HABE, 1981).

□ Genus *Allogramma* DALL, 1903-c

Type species: *Lyonsia formosa* JEFFREYS, 1881 (o. d.)

B1393 *A. oahuensis* (DALL, 1913-a)

Ryūgū-obikui (= Oafu-gokoro-gai)

- Type locality: 'Albatross' sta. 3883, Pailolo channel, south off Oahu, Hawaii, 277-284 fms.
- Distribution: Izu islands (off Miyake island, 1230-1350 m. OKUTANI, 1962; off Izu-Ōshima, 620-720 m. OKUTANI, 1966) and southwards, P6-P5, off Kii peninsula (KURODA & HABE, 1981); Hawaii.
- Habitat: 20-200 m., fine sand.
- Original genus: *Lyonsia* (*Allogramma*).

□ Genus *Bentholyonsia* HABE, 1952-c

Type species: *Allogramma (Bentholyonsia) teramachii* HABE, 1952 (o. d.)

**B1394 *B. teramachii* (HABE, 1952-c)**

Watazoko-obikui

- Type locality: Tosa bay, southern Shikoku; 100-200 m.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and westwards, P7-P5, EC5, ECP4.
- Habitat: 20-200 m., fine sand.
- Original genus: *Allogramma (Bentholyonsia)*.

□ Genus *Agriodesma* DALL, 1909-c

Type species: *Lyonsia saxicola* BAIRD, 1863 (mt.) (= *Entodesma* CARPENTER non PHILIPPI, 1845)

**B1395 *A. navicula* (ADAMS & REEVE, 1850 in 1848-50)**

(= *Entodesma truncatissima* PILSBRY, 1895; *E. naviculoides* YOKOYAMA, 1922)

Obikui (= Futo-obikui)

- Type locality: 'Shores of Borneo', 11 fms.
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea; South China Sea, Philippines, Indonesia, southeast Asia, Indo-Pacific.
- Habitat: intertidal to 50 m., among roots of large seaweeds *Zostera marina*, *Phyllospadix scouleri* etc.

Family **PANDORIDAE RAFINESQUE, 1815**

(Refs.: Habe, 1952-e)

□ Genus *Pandora* BRUGUIÈRE, 1797 in 1791-1797

Type species: *Solen inaequalis* LINNAEUS, 1758 (s. m. LAMARCK, 1799)

(= *Pandora* HWASS in CHEMNITZ, 1795 invalid; *Calopodium* RÖDING, 1798; *Irus* OKEN, 1821 non OKEN, 1815; *Trutina* BROWN, 1827; *Pandorina* SCACCHI, 1836 non SCACCHI, 1833)

**B1396 *P. otukai* HABE, 1952-e**

(= '*Pandora (Kennerleyia) bicarinata?*' sensu S. HIRASE, 1934; '*Pandora radiata?*' sensu Is. TAKI, 1951; *P. otukaki* sensu KURODA & HABE, 1981 err.)

Neri-gai (= Chidori-neri-gai)

- Type locality: Sagami bay, central Honshū.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, East China Sea; Yellow Sea.
- Habitat: 10-300 m., sand.

**B1397 *P. wardiana* A. ADAMS, 1859**

(= *P. (Kennerleyia)* cf. *wardiana* sensu FUJITA, 1929; *P. (K.) japonensis* NOMURA & HATAI, 1940 (*pars*).

Hira-neri-gai (= Ō-neri-gai)

- Type locality: 'Coast of Manchuria, 20 fms; Sunday Island'.
- Distribution: Suruga bay and northwards, P6-P10, Japan

Sea (off Oki islands, J2-J5), OP, Kuril islands, Okhotsk Sea; Yellow Sea, Sakhalin, Alaska, northwestern USA.

- Habitat: 10-300 m., sandy mud.

**B1398 *P. ceylonica* HANLEY, 1842**

(= *P. cumingi* HANLEY, 1861; *P. delicatula* CARPENTER, 1864)

- Type locality: Ceylon (Sri Lanka).
- Distribution: Okinawa to Hong Kong, South China Sea, Philippines, Red Sea (BERNARD *et al.*, 1993)
- Habitat: 20-150 m., sand and mud.

□ Genus *Pandorella* CONRAD, 1863

Type species: *Pandora arenosa* CONRAD, 1834 (mt.)

(= *Kennerlia* CARPENTER, 1864; *Kennerleya*, *Kennerleyis*, *Kennerlia*, *Kennerlyia* auct.)

**B1399 *Pandorella carinata* (PRASHAD, 1932)**

(= *Pandora (Kennerlia) nipponica* HABE, 1952)

Watazoko-neri-gai (= Nippon-neri-gai)

- Type locality: 'Siboga' sta. 159, Halmaheira Sea west off New Guinea: 0° 59.1' S., 129° 48.8' E., 411 m.
- Distribution: Izu islands and southwards, P6-P5, Japan Sea (Wakasa bay, J2-J1), EC5, East China Sea, P2; South China Sea, Indonesia.
- Habitat: 30-150 m., mud and sand.
- Original genus: *Calopodium (Kennerlia)*.

**B1400 *P. pseudobilirata* (NOMURA & HATAI, 1940)**

(= *Pandora delicatula* SOWERBY II, 1874 non CARPENTER, 1864; *P. (Kennerlyia) japonensis* NOMURA & HATAI, 1940 (*pars*).

Usu-neri-gai (= Katabira-gai)

- Type locality: Kyuroku island, Japan Sea off Aomori prefecture, northwestern Honshū.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (off Yamagata prefecture, J3-J1), EC5, East China Sea; Yellow Sea, Bohai.
- Habitat: 20-100 m., sand.
- Original genus: *Pandora*.

□ Genus *Heteroclidus* DALL, 1903-c

Type species: *Pandora punctata* CONRAD, 1837 (o. d.)

**B1401 *H. pulchellus* (YOKOYAMA, 1926)**

Oshidori-neri-gai

- Type locality: Anden, Akita prefecture, northern Honshū (fossil).
- Distribution: Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J6), Okhotsk Sea; Primoriye region (Japan Sea coast of Russia).
- Habitat: 100-200 m., sandy mud.
- Original genus: *Pandora*.

Family **MYOCHAMIDAE BRONN, 1862**

(Refs.: Habe, 1950-c)

□ Genus *Myadora* GRAY, 1840

Type species: *Pandora brevis* SOWERBY I, 1829 (mt.)  
(= *Myadora sensu* GRAY, 1840 err.)

B1402 *M. fluctuosa* GOULD, 1861 in 1859-61

(= *M. proxima* E. A. SMITH, 1880; *M. triangularis* DUNKER, 1882; *M. japonica* HABE, 1950)

Mitsu-kado-katabira-gai (= Hiro-katabira-gai)

- Type locality: 'Kagosima Bay' (Kagoshima, southern Kyūshū).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5 (Sagami bay OKUTANI, 1968), Japan Sea (northern Niigata prefecture, J3-J1), southern Kyūshū (off Kushikino, 730-760 m. OKUTANI, 1962), EC5, East China Sea; Korea, Yellow Sea, China (Shandong).
- Habitat: 10-990 m., fine sand and mud.

B1403 *M. quadrata* E. A. SMITH, 1899-a

(= *M. valdiviae* THIELE & JAECKEL, 1931; *M. weberi* PRASHAD, 1932; *M. teramachii* HABE, 1950)

Teramachi-katabira-gai

- Type locality: 'Investigator' sta. 229, off Travancore (India), Bay of Bengal), 360 fms.; and sta. 233, off Andaman islands, 185 fms.
- Distribution: Suruga bay and southwards, P6-P5, EC5, ECP4-ECP2, P2, East China Sea; PIL, South China Sea, Indo-Pacific, Indian Ocean.
- Habitat: 200-500 m., sand.

B1404 *M. soyoae* HABE, 1950-c

Watazoko-katabira

- Type locality: 'Sōyō-Maru' sta. 325, Bungo strait between Shikoku and Kyūshū; 210 m.
- Distribution: western Shikoku (Kōchi prefecture; Ehime prefecture), northeastern Kyūshū, Tsushima strait.
- Habitat: 50-300 m., coarse sand and stones.

B1405 *M. yokoyamai* HABE, 1950-c

(= *M. triangularis* YOKOYAMA, 1920 non DUNKER, 1882)

Togari-katabira

- Type locality: Naganuma, Kanagawa prefecture, near Tōkyō (fossil).
- Distribution: western Kyūshū (off Tsushima; off Gotō islands; off Nagasaki).
- Habitat: 100-150 m., sand.

B1406 *M. reeveana* (E. A. SMITH, 1880-b)

Ko-katabira-gai

- Type locality: 'China'.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (Sado island, J3-J1), EC5, East China Sea; Korea, coastal China.
- Habitat: 5-300 m., sand.

• Original genus: *Myodora*.

□ Genus *Myodoropsis* HABE, 1960-b

Type species: *Thracia transmontana* YOKOYAMA, 1922 (o. d.)

B1407 *M. transmontana* (YOKOYAMA, 1922)

Yamazaki-suemono-gai

- Type locality: Shitō, Ichihara City, Chiba prefecture, central Honshū (fossil).
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Sado island), EC5.
- Habitat: 10-300 m., sand.
- Original genus: *Thracia*.

B1408 *M. dissimilis* HABE, 1960-b

Hiro-yamazaki-suemono-gai

- Type locality: Tomioka, Amakusa island, western Kyūshū.
- Distribution: Kii peninsula to Kyūshū (KURODA & HABE, 1981), EC5, ECP4.
- Habitat: 10-30 m., fine sand.

B1409 *M. brevispinosa* HABE, 1962-b

Toge-yamazaki-suemono-gai

- Type locality: Tomioka, Amakusa island, western Kyūshū.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Oki islands, J2-J1), EC5.
- Habitat: 10-300 m., fine sand.

Superfamily VERTICORDIOIDEA STOLICZKA, 1871 in 1870-71

Family VERTICORDIIDAE STOLICZKA, 1871 in 1870-71

(Refs.: Kuroda, 1952-b)

□ Genus *Verticordia* SOWERBY II, 1844

Type species: '*Hippagus? cardiiformis* SOWERBY II, 1844 (mt.)

(= *Trigonulina* D'ORBIGNY, 1846; *Iphigenia* DACOSTA, 1850 non SCHUMACHER, 1817; *Hippella auct. non* MÖRCH, 1861; *Hippagus* PHILIPPI, 1844 non LEA, 1833)

Subgenus *Spinospella* IREDALE, 1930-b

Type species: *Verticordia ericia* HEDLEY, 1911 (o. d.)

B1410 *V. (S.) deshayesiana* (FISCHER, 1862-a)

(= *V. japonica* A. ADAMS, 1862-b)

Uzumaki-gokoro-gai (= Tō-goma-gai)

- Type locality: 'China Sea'.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (off Yamaguchi prefecture, J1), EC5, ECP4-ECP2, P2, East China Sea; South China Sea, southeast Asia, east Africa, Hawaii.
- Habitat: 40-700 m., sand and shell bottom.

□ Genus *Haliris* DALL, 1886-b

Type species: *Verticordia fischeriana* DALL, 1881 (o. d.)  
Subgenus *Haliris* s. str.

B1411 *H. (H.) multicostata* (A. ADAMS, 1862-b)

(= *H. moeshimensis* HABE, 1953)  
Une-shige-gokoro-gai (= Moeshima-otohime-gokoro-gai)  
• Type locality: Gotō islands, western Kyūshū; 71 fms.  
• Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (northern Yamaguchi prefecture, J1), EC5; western Pacific.  
• Habitat: 50-450 m., sand and shell bottom.  
• Original genus: *Verticordia*.

Subgenus *Setaliris* IREDALE, 1930-b

Type species: *Verticordia setosa* HEDLEY, 1907 (o. d.)

B1412 *H. (S.) makiyamai* (HABE in KURODA, 1952-b)

Hishi-otohime-gokoro-gai  
• Type locality: Hoza bay, Mie prefecture, central Honshū; 34 m.  
• Distribution: western Izu islands, Kumano-nada (off eastern Kii peninsula), western Kyūshū (off Gotō islands).  
• Habitat: 30-200 m., coarse sand and stones.  
• Original genus: *Verticordia* (*Haliris*).

B1413 *H. (S.) pygmaea* (KURODA, 1952-b)

Hinano-otohime-gokoro-gai  
• Type locality: Tosa bay, southern Shikoku; ± 100 fms.  
• Distribution: western Kii peninsula, Tosa bay, western Kyūshū.  
• Habitat: 100-200 m., sand.  
• Original genus: *Verticordia* (*Haliris*).

□ Genus *Halicardia* DALL, 1895-a

Type species: *Mytilimeria flexuosa* VERRILL, 1881 (o. d.)

B1414 *H. nipponensis* OKUTANI, 1957-a

Nippon-otohime-gokoro-gai  
• Type locality: 'Sōyō-Maru' sta. 2, off Jōgashima, eastern Sagami bay: 35° 05.1' N., 139° 33.3' E., 750 m.  
• Distribution: northeastern Honshū (Iwate prefecture) and southwards, Kashima-nada (off Chiba prefecture OKUTANI, 1962), Sagami bay (655-675 m. OKUTANI, 1966; 600-1140 m. OKUTANI, 1968), Kumano-nada (off eastern Kii peninsula).  
• Habitat: 400-1500 m., mud.

□ Genus *Vertambitus* IREDALE, 1930-b

Type species: *Verticordia vadosa* HEDLEY, 1907 (o. d.)

B1415 *V. cuneatus* (KURODA, 1952-b)

Kusabi-otohime-gokoro-gai  
• Type locality: Tosa bay, southern Shikoku; ± 100 fms.  
• Distribution: Tosa bay.  
• Habitat: 200 m., mud.

□ Genus *Simplicordia* KURODA & HABE in

KURODA *et al.*, 1971

Type species: *Thyasira trigonata* YOKOYAMA, 1922 (o. d.)

B1416 *S. trigonata* (YOKOYAMA, 1922)

Mitsukado-hanashi-gai  
• Type locality: Shitō, Ichihara City, Chiba prefecture, central Honshū (fossil).  
• Distribution: Sagami bay (various localities KURODA *et al.*, 1971).  
• Habitat: 50-150 m., sand and shells.  
• Original genus: *Thyasira*.

□ Genus *Euciroa* DALL, 1881

Type species: *Verticordia elegantissima* DALL, 1881 (mt.) (= *Euciroa sensu* KOBELT, 1896 *err. pro -ciroa*)

B1417 *E. crassa* THIELE & JAECKEL, 1931

(= *E. cistagemma* KURODA, 1952)  
Gin-sunago-gai  
• Type locality: 'Valdivia' sta. 246, 'Pemba-Kanal' (Pemba strait, off Tanga, Tanzania, east Africa): 05° 24' S., 39° 19.8' E., 818 m.  
• Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P5, EC5, East China Sea, P2; South China Sea, Taiwan, Philippines to Maldives, east Africa.  
• Habitat: 150-1500 m., sand.

□ Genus *Acreuciroa* THIELE & JAECKEL, 1931

Type species: *Euciroa (Acreuciroa) rostrata* THIELE & JAECKEL, 1931 (mt.)

B1418 *A. rostrata* (THIELE & JAECKEL, 1931)

(= *Euciroa teramachii* KURODA, 1952)  
Onaga-gin-sunago-gai  
• Type locality: 'Valdivia' sta. 199, off western Sumatra, Indonesia: 00° 15.5' N., 98° 04' E., 470 m.  
• Distribution: Kii peninsula (off Esuzaki TSUCHIDA, 1986; KURODA & HABE, 1981) and southwards, P5, EC5, ECP4, East China Sea; South China Sea, Taiwan, Indonesia.  
• Habitat: 200-550 m., sand.  
• Original genus: *Euciroa* (*Acreuciroa*).

B1419 *A. millegemata* (KURODA & HABE in KURODA, 1952-b)

Chirimen-gin-sunago  
• Type locality: Tosa bay, southern Shikoku; ± 200 fms.  
• Distribution: Tosa bay and southwards, P5, ECP4-ECP2; South China Sea.  
• Habitat: 100-400 m., fine sand.  
• Original genus: *Euciroa*.

□ Genus *Lyonsiella* G. SARS, 1872

Type species: *Pecchiolia abyssicola* G. SARS, 1872 (mt.) (= *Lyonsiella* G. SARS, 1868 *nom. nud.*)

B1420 *L. parva* OKUTANI, 1962

Mijin-kigokoro-gai

- Type locality: 'Sōyō-Maru' sta. B2, 26 miles off Miyake island, Izu islands: 34° 10.0' N., 140° 02.3' E., 1230-1350 m.
- Distribution: Izu islands (off Izu-Ōshima OKUTANI, 1966; off Miyake island OKUTANI, 1968), Sagami bay (OKUTANI, 1962; 1966; 1968), Tosa bay (off Kōchi prefecture TSUCHIDA, 1994-b); Yellow Sea.
- Habitat: 500-1200 m., mud.

□ Genus *Policordia* DALL, BARTSCH & REHDER, 1938

Type species: *Policordia diomedea* DALL, BARTSCH & REHDER, 1938 (o. d.)

(= *Laevicordia auct. non* SEGUENZA, 1876)

B1421 *P. pilula* (PRASHAD, 1932)

(= *Lyonsiella japonica* HABE, 1952; *L. media* OKUTANI, 1962)

Musume-gokoro-gai (= Mame-kigokoro-gai; Chibi-kigokoro-gai)

- Type locality: 'Siboga' sta. 88, Macassar strait: 0° 34.6' N., 119° 8.5' E., 1301 m.
- Distribution: Izu islands (Izu-Ōshima, 1560-1640 m.; off Miyake island, 1230-1350 m. OKUTANI, 1962; 1968) and southwards, P6-P5 (Sagami bay OKUTANI, 1962), Tosa bay, P2; South China Sea, Philippines to Indonesia.
- Habitat: 100-1640 m., sand.
- Original genus: *Lyonsiella*.

Superfamily **POROMYOIDEA DALL, 1886-b**

Family **POROMYIDAE DALL, 1886-b**

(Refs.: Habe, 1952-d)

□ Genus *Poromya* FORBES, 1844

Type species: *Poromya anatinoides* FORBES, 1844 (mt.; = *Corbula granulata* NYST & WESTENDORP, 1839)

(= *Embla* LOVÉN, 1847; *Thetis* H. & A. ADAMS, 1856 non SOWERBY, 1826; *Ectorisma* TATE, 1892; *Questimia* IREDALE, 1930; *Poromia*, *Proomya auct.*)

B1422 *P. flexuosa* YOKOYAMA, 1922

Sunname-gai

- Type locality: Shitō, Ichihara City, Chiba prefecture, central Honshū (fossil).
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (northern Niigata prefecture, J3-J1), EC5, ECP4.
- Habitat: 30-350 m., fine sand and mud.

B1423 *P. castanea* HABE, 1952-d

Kuri-iro-sunname-gai

- Type locality: 'Sōyō-Maru' sta. 499, off Oki islands, Japan Sea: 35° 55' 15" N., 132° 33' 45" E., 307 m., muddy sand.
- Distribution: Japan Sea (Sado island and southwards, J3-J1), western Kyūshū, East China Sea; Yellow Sea.

- Habitat: 30-350 m., sandy mud.

B1424 *P. hayashii* HABE, 1958-e

Yokonaga-sunname

- Type locality: off Shima peninsula, Mie prefecture, central Honshū; 100 fms.
- Distribution: Enshū-nada (KURODA & HABE, 1981) and westwards, off Kii peninsula, Tosa bay, western Kyūshū.
- Habitat: 50-200 m., sand.

□ Genus *Dermatomya* DALL, 1889

Type species: *Poromya (Dermatomya) mactroides* DALL, 1889 (mt.)

B1425 *D. tenuiconcha* (DALL, 1913-a)

(= *Poromya soyoae* HABE, 1952; *D. tenuiconcha sagamiensis* OKUTANI, 1962)

Biwa-no-tane-gai (= Sōyō-sunname-gai; Sagami-biwa-no-tane-gai)

- Type locality: off Monterey bay, California, USA.
- Distribution: Sagami bay (OKUTANI, 1962; 1966; 1968) and northwards, P6-P10, Hokkaidō, OP, Kuril islands, Okhotsk Sea; Bering Sea, northwestern USA to California.
- Habitat: 100-1000 m., sandy mud.
- Original genus: *Poromya (Dermatomya)*.

□ Genus *Cetoconcha* DALL, 1886-b

Type species: *Lyonsia bulla* DALL, 1878 (o. d.)

(= *Silenia* E. A. SMITH, 1885 non MULSANT, 1873)

B1426 *C. eximia* (PRASHAD, 1932)

(= *Poromya eximia* PELSENEER, 1911 *nom. nud.*; *C. eximia intermedia* HABE, 1952)

Biidoro-sunname-gai

- Type locality: 'Siboga' sta. 314, Flores Sea north off Sumbawa, Indonesia: 07° 36' S., 117° 30.8' E., 694 m.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, EC5, East China Sea, P2; South China Sea, Philippines, Flores Sea, east Africa.
- Habitat: 50-500 m., sand and mud.
- Original genus: *Poromya (Cetoconcha)*.

B1427 *C. japonica* HABE, 1952-d

Daiō-sunname-gai

- Type locality: 'Sōyō-Maru' sta. 32, off Kinkazan, Miyagi prefecture, northern Honshū: 38° 00' 00" N., 141° 43' 10" E., 611 m., muddy sand.
- Distribution: Hokkaidō and southwards, P10-P5; New Caledonia.
- Habitat: 150-200 m., sandy mud.

B1428 *C. tenuissima* OKUTANI, 1966

Yowa-biidoro-sunname-gai

- Type locality: 'Sōyō-Maru' sta. B3, off Hachijō island, Izu islands: 33° 11.0' N., 140° 02.7' E., 510 m.

- Distribution: recorded only from type locality.
- Habitat: 500-1000 m., fine sand.

Superfamily **CUSPIDARIOIDEA DALL, 1886-b**

Family **CUSPIDARIIDAE DALL, 1886-b**

□ Genus ***Cuspidaria* NARDO, 1840**

Type species: *Cuspidaria typus* NARDO, 1840 (mt.; = *Tellina cuspidata* OLIVI, 1792)

(= *Neaera* GRAY in GRIFFITH & PIDGEON, 1834 non ROBINEAU-DESVOIDY, 1830; *Aulacophora* JEFFREYS, 1882 non CHEVROLAT, 1842; *Vulcanomya* DALL, 1886)

Subgenus ***Cuspidaria s. str.***

**B1429 *C. (C.) elegans* (HINDS, 1843-e)**

(= *Neaera moluccana* ADAMS & REEVE, 1850 in 1848-50)

- Type locality: 'New Guinea, China Sea and Singapore'.
- Distribution: off Mishima (Japan Sea A. ADAMS, 1864-c), 'Pacific side, 0-?, Japan Sea side 35° N.?' (KURODA & HABE, 1952-a), P2; South China Sea, China, Indonesia.
- Habitat: 100-200 m., sand and mud.
- Original genus: *Neaera*.

**B1430 *C. (C.) nobilis* (A. ADAMS, 1864-c)**

(= *C. (C.) consimilis* HABE, 1961-a)

Ō-shakushi-gai (= Kiba-shakushi-gai)

- Type locality: 'Mino-Sima (Mishima, Japan Sea), 63 fms; Quelpart (Cheju is, Korea), 52 fms.'
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (Sado island, J3-J1), EC5, ECP4; Australia (NSW to Queensland LAMPRELL & HEALY, 1998).
- Habitat: 50-300 m., sandy mud.
- Original genus: *Neaera*.

**B1431 *C. (C.) chinensis* (GRAY in GRIFFITH & PIDGEON, 1834)**

Sazanami-shakushi

- Type locality: 'China Sea'.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, EC5, East China Sea.
- Habitat: 100-250 m., mud.
- Original genus: '*Neroea*'.

**B1432 *C. (C.) hindsiana* (A. ADAMS, 1864-c)**

(= *C. hindsiana kagoshimensis* HABE, 1961)

Tsugi-no-shakushi-gai (= Kagoshima-shakushi-gai)

- Type locality: 'Gotto' (Gotō islands, Nagasaki prefecture); 48 fms.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, P7-P5, Japan Sea (northern Niigata prefecture, J3-J1), EC5; northwestern Australia (LAMPRELL & HEALY, 1998).
- Habitat: 50-200 m., sandy mud, coarse sand and stones.

- Original genus: *Neaera*.

**B1433 *C. (C.) okezoko* OKUTANI, 1985-a**

Okezoko-shakushi-gai

- Type locality: fishing area 'Tosa-okezoko', southwestern Tosa bay, southern Shikoku; 400 m.
- Distribution: Tosa bay.
- Habitat: 300-500 m., sand.

**B1434 *C. (C.) steindachneri* STURANY, 1899**

(= *C. hirasei* KURODA, 1948)

Shakushi-gai

- Type locality: Red Sea.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and southwards, P6, EC5, P2, East China Sea; Philippines, Indo-Pacific, Red Sea.
- Habitat: 100-1300 m., sandy mud.

**B1435 *C. (C.) saganumai* NOMURA, 1940**

Enaga-shakushi-gai

- Type locality: off Ubara, eastern Bōsō peninsula, Chiba prefecture, central Honshū; 130-177 m.
- Distribution: northeastern Honshū (off Miyagi prefecture) and southwards, P8-P5, Japan Sea (off Yamagata prefecture, J4-J1), EC5.
- Habitat: 50-1000 m., sandy mud.

**B1436 *C. (C.) macrorhynchus* E. A. SMITH, 1895-c**

• Type locality: off western India: 13° 47' 49" N., 73° 7' E., 636 fms.

- Distribution: East China Sea; Taiwan, Philippines, Indonesia, Indo-Pacific to east Africa.
- Habitat: 200-1100 m., sand and mud.

**B1437 *C. (C.) nasuta* (A. ADAMS, 1864-c)**

Hoso-e-jakushi-gai (= Tengu-shakushi)

- Type locality: 'Satanomisaki' (Cape Sata, southern Kagoshima prefecture, Kyūshū); 55 fms.
- Distribution: Kii peninsula (KURODA & HABE, 1981), Tosa bay, off southern Kyūshū.
- Habitat: 100-150 m., sandy mud.
- Original genus: *Neaera*.

**B1438 *C. (C.) japonica* KURODA, 1948-a**

Tama-jakushi-gai

- Type locality: Tosa bay off Kōchi prefecture, southern Shikoku; 150 fms.
- Distribution: Kii peninsula (KURODA & HABE, 1981) and westwards, Tosa bay.
- Habitat: 100-300 m., sandy mud.

**B1439 *C. (C.) teramachii* KURODA, 1948-a**

Teramachi-shakushi-gai

- Type locality: Tosa bay off Kōchi prefecture, southern Shikoku.
- Distribution: Kii peninsula (KURODA & HABE, 1981)



and westwards, Tosa bay.

- Habitat: ± 100 m., sandy mud.

**B1440 *C. (C.) kawamurai* KURODA, 1948-a**  
(= *C. gigantea* PRASHAD, 1932 non VERRILL, 1884)  
Kawamura-shakushi-gai

- Type locality: Tosa bay off Kōchi prefecture, southern Shikoku.
- Distribution: Enshū-nada (off Shizuoka prefecture) and southwards, P6-P5 (Sagami bay OKUTANI, 1962; 1968), EC5, ECP4, East China Sea, P2; South China Sea, Indonesia, Australia (northern Western Australia LAMPRELL & HEALY, 1998).
- Habitat: 100-640 m., sandy mud.

**Notes:** *C. (C.) ascolidica* SCARLATO, 1972 (Type locality: 'continental coast of Japan Sea: 44° 30' N., 373-494 m., sandy mud') was cited from 'Japan Sea' (HABE, 1977-a); the present authors have been unable to determine its exact distribution.

**B1441 *C. (C.) obtusirostris* OKUTANI, 1962**  
Watazoko-shakushi-gai

- Type locality: 'Sōyō-Maru' sta. T29, Sagami bay, central Honshū: 35° 04.8' N., 139° 30.2' E., 620-780 m.
- Distribution: Izu islands (Izu-Ōshima; Miyake island OKUTANI, 1962; 1968) and northwards, Sagami bay (655-1500 m. OKUTANI, 1966; 1968), P6-P7, off Chōshi (Chiba prefecture, central Honshū).
- Habitat: 600-1350 m.

**B1442 *C. (C.) mitis* PRASHAD, 1932**  
Yowa-shakushi-gai

- Type locality: 'Siboga' sta. 18, between Bali and Kangean islands, Java Sea, Indonesia: 07° 28.2' S., 115° 24.6' E., 1018 m.
- Distribution: Kashima-nada (OKUTANI, 1962) and southwards, P8-P6, Izu islands (off Miyake island OKUTANI, 1968), Sagami bay (OKUTANI, 1962; 1966; 1968), Tosa bay (TSUCHIDA, 1994-b), P2; Taiwan, South China Sea, Indonesia, Indo-Pacific.
- Habitat: 500-1400 m., sand and mud.

**B1443 *C. (C.) kyushuensis* OKUTANI, 1962**  
Kyūshū-shakushi-gai

- Type locality: 'Sōyō-Maru' sta. 72, off Kushikino, Kagoshima prefecture, southwestern Kyūshū: 31° 31' N., 129° 21.0' E., 730-760 m.
- Distribution: recorded only from type locality.

**B1444 *C. (C.) kurodai* OKUTANI, 1975-a**  
Seno-shakushi-gai

- Type locality: Kurose bank, off Izu islands: 33° 21.5' N., 139° 40.0' E., 158 m.
- Distribution: off Izu islands.
- Habitat: 150-200 m., sand.

**B1445 *C. (C.) abyssopacifica* OKUTANI, 1975-b**  
Okino-shakushi-gai

- Type locality: off Izu islands: 32° 08.5' N., 141° 05.4' E., 3420 m.
- Distribution: Izu islands (Hachijō island to Torishima).
- Habitat: 3420-5620 m.

**B1446 *C. (C.) dubia* PRASHAD, 1932**  
(= *Myoneria dubium* PELSENEER, 1911 nom. nud.)  
Kōmori-shakushi-gai

- Type locality: 'Siboga' sta. 211, southern Celebes (Sulawesi), off Kabia island: 05° 40.7' S., 120° 45' E., 1158 m., and sta. 221, Banda Sea east off Tukangbesi islands: 06° 24' S., 124° 39' E., 2798 m.
- Distribution: Izu islands (Izu-Ōshima; Miyake island OKUTANI, 1962; 1968) and southwards, Sagami bay, P6-P5, EC5, P2; Philippines, South China Sea, Indian Ocean.
- Habitat: 200-2798 m., sand.

Subgenus *Nordoneaera* OKUTANI, 1985-a  
Type species: *Cuspidaria trosaeetes* DALL, 1925 (o. d.)

**B1447 *C. (N.) trosaeetes* DALL, 1925-a**  
Atsu-shakushi-gai

- Type locality: 'Albatross' sta. 4992, Japan Sea; 325 fms., muddy bottom.
- Distribution: Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J4); Hokkaidō and northwards, P10, OP; Kuril islands.
- Habitat: 50-650 m., sandy mud.

Subgenus *Soyomya* OKUTANI, 1985-a  
Type species: *Cuspidaria kurohijii* OKUTANI, 1972 (o. d.)

**B1448 *C. (S.) kurohijii* OKUTANI, 1972-a**  
Yosenami-shakushi-gai

- Type locality: Hyōtan-se bank, Izu islands: 34° 21.1' N., 139° 04.6' E., 130 m.
- Distribution: Izu islands (off Kuro-se; Hyōtan-se bank).
- Habitat: 100-200 m.

**B1449 *C. (S.) sadoensis* OKUTANI & ITŌ, 1983**  
Mijin-shakushi-gai

- Type locality: Sado strait, between Sado island and Niigata prefecture, Japan Sea.
- Distribution: Japan Sea (off Noto peninsula; off Ryotsu; Sado island to Niigata prefecture).
- Habitat: 150-300 m.

□ Genus *Leiomya* A. ADAMS, 1864-c  
Type species: *Neaera adunca* GOULD, 1861 (mt.)

**B1450 *L. adunca* (GOULD, 1861 in 1859-61)**  
Tanabe-shakushi-gai-damashi

- Type locality: 'Kagosima Bay (Kagoshima, southern Kyūshū), sandy mud, 12-15 fathoms'.
- Distribution: Hokkaidō (Hakodate bay), Kii peninsula

(Tanabe bay) and southwards, Seto inland sea, western Kyūshū (Ariake inland sea; Tomioka, Amakusa island; Kagoshima bay); Yellow Sea.

- Habitat: 100-600 m., sandy mud in bays.
- Original genus: *Neaera*.

□ Genus *Pseudoneaera* STURANY, 1899

Type species: *Pseudoneaera thauasia* STURANY, 1899 (mt.)

(= *Bendoneera* COSSMANN, 1904 *nom. van.*)

B1451 *P. semipellucida* (KURODA, 1948-a)

(= *Cuspidaria (Pseudoneaera) iridella* KURODA, 1948-a) Shakushi-gai-modoki

- Type locality: Sagami bay, central Honshū.
- Distribution: Izu islands (off Miyake island OKUTANI, 1968), Bōsō peninsula (TSUCHIDA & KUROZUMI, 1995-b) and southwards, P7-P5 (Sagami bay OKUTANI, 1962), EC5, East China Sea; Yellow Sea.
- Habitat: 100-250 m., sandy mud.
- Original genus: *Cuspidaria (Plectodon?)*.

□ Genus *Rhinoclama* DALL & SMITH in DALL, 1886-b

Type species: *Neaera philippinensis* HINDS, 1843 (s. d. STOLICZKA, 1871)

Type species: *Cuspidaria (Rhinoclama) adamsi* MORGAN & HEPPELL in ALLEN & MORGAN, 1981 (ICZN op. 1376)

(= *Rhinomya* A. ADAMS, 1864-c *non* ROBINEAU-DESVOIDY, 1830; *Luzonia* DALL & SMITH in DALL, 1890; *Austronaera* POWELL, 1937)

B1452 *R. rugata* (A. ADAMS, 1864-c)

- Type locality: 'Tabu-sima' (Tobishima, off Yamagata prefecture, Japan Sea), 25 fms.
- Distribution: Japan Sea (off Yamagata prefecture); 'East China Sea, Taiwan' (BERNARD *et al.*, 1993).
- Habitat: 150-300 m., sand and mud.

□ Genus *Cardiomya* A. ADAMS, 1864-c

Type species: *Neaera gouldiana* HINDS, 1843 (mt.)

(= *Spathophora* JEFFREYS, 1882 *non* AMYOT & SERVILLE, 1843)

(Refs.: Okutani & Sakurai, 1964-a)

Subgenus *Cardiomya s. str.*

B1453 *C. (C.) gouldiana* (HINDS, 1843-e)

(= *Neaera gouldiana septentrionalis* KURODA, 1948; *Cardiomya lindbergi* SCARLATO, 1972; *C. lindbergi batialis* SCARLATO, 1972)

Hime-shakushi-gai

- Type locality: 'New Guinea; Cagayan, island of Mindanao; and Bay of Manila, Philippines; in from seven to thirty fathoms, sandy mud'.
- Distribution: northeastern Honshū (Iwate prefecture) and

southwards, P9-P5 (Sagami bay OKUTANI, 1962), Japan Sea (northern Niigata prefecture, J3-J1), EC5, East China Sea, P2; Yellow Sea, Bo-hai, South China Sea, Philippines, southeast Asia.

- Habitat: 10-1030 m., sandy mud.
- Original genus: *Neaera*.

B1454 *C. (C.) tosaensis* (KURODA, 1948-a)

Tosa-hime-shakushi

- Type locality: Tosa bay off Kōchi prefecture, southern Shikoku.
- Distribution: Kii peninsula and westwards to Tosa bay, western Kyūshū, East China Sea; Yellow Sea.
- Habitat: 10-100 m., sandy mud.

B1455 *C. (C.) sagamiana* OKUTANI & SAKURAI, 1964

(= *C. sagamiensis sensu* KURODA & HABE, 1981 *err.*)

Sagami-hime-shakushi

- Type locality: off Zushi, eastern Sagami bay, central Honshū; 15-30 fms.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P6, off Mie prefecture.
- Habitat: 10-100 m., sandy mud.

B1456 *C. (C.) reticulata* (KURODA, 1948-a)

(= *Cuspidaria (Cardiomya) abyssicola nipponica*

OKUTANI, 1962)

Chirimen-hime-shakushi

- Type locality: Tosa bay, off Kōchi prefecture, southern Shikoku.
- Distribution: Bōsō peninsula and southwards, P7-P5 (Sagami bay; Kashima-nada OKUTANI, 1962; 1966; 1968), EC5, ECP4-ECP2, East China Sea.
- Habitat: 100-800 m., sandy mud.
- Original genus: *Cuspidaria*.

B1457 *C. (C.) fujitai* (KURODA, 1948-a)

Fujita-hime-shakushi

- Type locality: off Okinoshima (Oki islands), Japan Sea.
- Distribution: Japan Sea (Oki islands; Toyama bay).
- Habitat: 100-300 m., sand.
- Original genus: *Cuspidaria*.

B1458 *C. (C.) behringensis behringensis* (LECHE, 1883)

Tengu-shakushi

- Type locality: Bering Sea, 65 fms., sand.
- Distribution: Hokkaidō and northwards, P10, OP, Kuril islands, Okhotsk Sea; Bering Sea to Alaska, Canada.
- Habitat: 50-2900 m., sandy mud.
- Original genus: *Neaera*.

B1459 *C. (C.) behringensis okutanii* SCARLATO, 1972

• Type locality: off Fukui prefecture, Japan Sea.

- Distribution: Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J4).
- Habitat: 40-500 m., sandy mud.

**B1460 *C. (C.) robiginosa* OKUTANI & SAKURAI, 1964-a**

Sabi-hime-shakushi

- Type locality: Sagami bay, central Honshū: 35° 03.5' N., 139° 24.5' E., 1190-1220 m.
- Distribution: Sagami bay.
- Habitat: 1000-1250m, mud.

**B1461 *C. (C.) kashimana* OKUTANI & SAKURAI, 1964-a**

Ara-hime-shakushi

- Type locality: Kashima-nada, off Ibaraki prefecture, central Honshū: 36° 17.6' N., 140° 58.5' E., 360 m.
- Distribution: Kashima-nada and northwards, Bōsō peninsula (TSUCHIDA & KUROZUMI, 1995-b), P8-P10, southern Hokkaidō.
- Habitat: 100-200 m., sandy mud.

**B1462 *C. (C.) sinica* XU, 1980**

- Type locality: east China Sea: 28° 30' N., 125° 00' E., 104 m., fine sand.
- Distribution: East China Sea (BERNARD *et al.*, 1993)
- Habitat: 100-220 m., sand.

**Subgenus *Kurodomya* OKUTANI & SAKURAI, 1964-a**

Type species: *Cuspidaria (Cardiomya?) fortisculpta* KURODA, 1948 (mt.)

**B1463 *C. (K.) fortisculpta* (KURODA, 1948-a)**

Kai-shakushi

- Type locality: Tosa bay, southern Shikoku; 100 fms.
- Distribution: Kii peninsula and southwards, western Kyūshū, P5, EC5, ECP4-ECP2.
- Habitat: 100-200 m., sandy mud.
- Original genus: '*Cuspidaria (Cardiomya?)*'.

**B1464 *C. (K.) alcocki* (E. A. SMITH, 1894-b)**

- (= *Cuspidaria potti* STURANY, 1899; *C. persculpta* PRASHAD, 1932; *C. multicarinata* PRASHAD, 1932)
- Type locality: Bay of Bengal: 11° 26' 30" N., 92° 34' E., 597 fms.
  - Distribution: East China Sea; Taiwan, South China Sea, Philippines, Indonesia, Indian Ocean.
  - Habitat: 50-200 m., sand.
  - Original genus: *Cuspidaria (Cardiomya)*.

**B1465 *C. (K.) semicostata* (PRASHAD, 1932)**

- Type locality: 'Siboga' sta. 159, Halmaheira Sea off western New Guinea: 0° 59.1' S., 129° 48.8' E., 411 m.
- Distribution: P2; Taiwan and southwards, Philippines, South China Sea, Indonesia.
- Habitat: 50-1100 m., sandy mud.
- Original genus: *Cuspidaria*.

□ Genus *Myonera* DALL & SMITH in DALL, 1886-b

Type species: *Neaera paucistriata* DALL, 1885 (o. d.)

**B1466 *M. dispar* (DALL, BARTSCH & REHDER, 1938)**

Tate-hida-shakushi-gai

- Type locality: 'Albatross' sta. 3842, off Molokai, Hawaii; 500 fms.
- Distribution: southwestern Kyūshū (off Kushikino 730-760 m. OKUTANI, 1962); Indonesia, Hawaii.
- Habitat: 400-1000 m., sand.
- Original genus: *Cuspidaria*.

**B1467 *M. lischkei* (E. A. SMITH, 1891-b)**

- Type locality: 'Challenger' sta. 237, south of Japan; 1875 fms.
- Distribution: type locality (± 60 km. south of Katsu'ura, Chiba prefecture, central Honshū).
- Original genus: *Cuspidaria (Myonera)*.

**B1468 *M. dautzenbergi* PRASHAD, 1932**

Hato-mune-shakushi

- Type locality: 'Siboga' sta. 52, Savu Sea between Flores and Sumba islands, Indonesia: 09° 34' S., 119° 56.7' E., 959 m.
- Distribution: Sagami bay (OKUTANI, 1968) and southwards, Tosa bay, East China Sea, P2; Taiwan, South China Sea, Philippines, Indonesia, Australia (New South Wales LAMPRELL & HEALY, 1998).
- Habitat: 500-1000 m., sand.

□ Genus *Rengea* KURODA & HABE in KURODA *et al.*, 1971

Type species: *Myonera fluctuosa* KURODA, 1948 (o. d.); = *Cuspidaria (Myonera) caduca* E. A. SMITH, 1894

**B1469 *R. caduca* (E. A. SMITH, 1894-b)**

(= *Myonera fluctuosa* KURODA, 1948-a)

Renge-shakushi-gai

- Type locality: Andaman Sea, 188-220 fms.
- Distribution: Bōsō peninsula (KURODA & HABE, 1981) and southwards, off Kii peninsula, Tosa bay, P2; Taiwan, South China Sea, Indonesia to southeastern Africa, Australia (northern Western Australia LAMPRELL & HEALY, 1998).
- Habitat: 50-1200 m., sand.
- Original genus: *Cuspidaria (Myonera)*.

□ Genus *Plectodon* CARPENTER, 1864

Type species: *Plectodon scaber* CARPENTER, 1864 (o. d.)

**B1470 *P. ligulus* (YOKOYAMA, 1922)**

Hinano-shakushi-gai

- Type locality: Shitō, Ichihara City, Chiba prefecture, central Honshū (fossil).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (northern Niigata prefecture, J3-J1), EC5, ECP4.
- Habitat: 10-300 m., sandy mud.

- Original genus: *Cuspidaria*.

□ Genus *Jeffreysomya* **NORDSIECK, 1969**

Type species: *Neaera truncata* JEFFREYS, 1882 (o. d.)

B1471 *J. periplomoidea* (SAKURAI & HABA in HABA, 1961-a)

Chijiwa-shakushi-gai

- Type locality: off Cape Ashizuri, southwestern Shikoku; 200 m.
- Distribution: southern Shikoku.
- Habitat: 100-200 m., fine sand.
- Original genus: *Cuspidaria*.

□ Genus *Halonympha* **DALL & SMITH in DALL, 1886-a**

Type species: *Neaera claviculata* DALL, 1881 (o. d.)

B1472 *H. asiatica* HAYAMI & KASE, 1993

Dōkutsu-shakushi-gai

- Type locality: sediments in 'Shō-dōkutsu' cave, Ie island, Okinawa.
- Distribution: Ie island.
- Habitat: subtidal, in caves.

Class **SCAPHOPODA BRONN, 1862**

(= CIRRHOBRANCHIATA BLAINVILLE, 1825;

LATERIBRANCHIATA CLARK, 1851;

SOLENOCONCHIA LACAZE-DUTHIERS, 1857;

PROSOPOCEPHALA BRONN, 1862)

(Refs.: Habe, 1953-a; 1963-a; 1964-a; 1977-a; Scarabino, 1995)

Order **DENTALIIDA DACOSTA, 1776**

Family **DENTALIIDAE GRAY, 1847**

(= ANTALIDAE STOLICZKA, 1858)

(Refs.: Iwakawa, 1905)

□ Genus *Dentalium* **LINNAEUS, 1758**

Type species: *Dentalium elephantium* LINNAEUS, 1758

(s. d. MONTFORT, 1810)

(= *Dentalia* PERRY, 1811; *Dentalites* SCHLOTHEIM, 1813)

Subgenus *Dentalium s. str.*

S1 *D. (D.) aprinum* **LINNAEUS, 1758**

(= *D. aprinum taiwanum* KURODA, 1941-c)

Mizu-iro-tsuno-gai (= Yakado-mizu-iro-tsuno-gai)

- Type locality: 'in Asia'. ('Indian Ocean' given with lectotype designation in SCARABINO, 1995).
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Indonesia, western Pacific to New Caledonia.
- Habitat: 5-40 m., fine sand.

S2 *D. (D.) bisexangulatum* **SOWERBY II, 1860 in 1842-87**

- Type locality: 'Java'.

- Distribution: 'Japan, Singapore, Java, Torres Strait, Gulf of Suez, Mozambique (14-55m) (LUDBROOK, 1954); Philippines, Persian Gulf, Zanzibar (SCARABINO, 1995).

Subgenus *Paradentalium* **COTTON & GODFREY, 1933**

Type species: *Dentalium intercalatum* GOULD, 1859 (mt.)

S3 *D. (P.) octangulatum* **DONOVAN, 1804 in 1799-1804**

(= *D. octogonum* LAMARCK, 1818 in 1815-22; *D.*

*hexagonum* GOULD, 1859; *D. sexcostatum* SOWERBY,

1860; *D. japonicum* DUNKER, 1877; *D. yokohamense*

WATSON, 1879)

Yakado-tsuno-gai (= Mukado-tsuno-gai; Yokohama-tsuno-gai)

- Type locality: 'China Seas', restricted to 'Japan' (LUDBROOK, 1954).
- Distribution: southern Hokkaidō and southwards, P10-P5, Japan Sea (Sado island, J3-J1), EC5; east Africa, Indo-Pacific.
- Habitat: subtidal to 100 m., fine sand and mud.

S4 *D. (P.) buccinulum* **GOULD, 1859 in 1859-61**

(= *D. motidukii* ŌTSUKA, 1935)

Hime-naga-tsuno-gai

- Type locality: 'Kagosima' (Kagoshima, southern Kyūshū).
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Japan Sea (Sado island, J3-J1), EC5, ECP4-ECP2, P2; China.
- Habitat: intertidal to 150 m., sand.

□ Genus *Fissidentalium* **FISCHER, 1885**

Type species: *Dentalium ergasticum* FISCHER, 1885 (mt.)

(= *Schizodentalium* SOWERBY, 1894)

Subgenus *Fissidentalium s. str.*

S5 *F. (F.) yokoyamai* (MAKIYAMA, 1931)

(= *Dentalium complexum* YOKOYAMA, 1920 non DALL, 1895)

Yasuri-tsuno-gai

- Type locality: Koshiba, Kanagawa district, Yokohama (fossil).
- Distribution: Kii peninsula and westwards, Tosa bay, EC5, ECP4.
- Habitat: 100-400 m., sandy mud.
- Original genus: *Dentalium*.

S6 *F. (F.) laterischismum* **SHIKAMA & HABA, 1963**

Ohōtsuku-tsuno-gai

- Type locality: Okhotsk Sea off Monbetsu, Hokkaidō; ± 150 m.
- Distribution: Okhotsk Sea.
- Habitat: 100-200 m., sandy mud.

S7 *F. (F.) lima* **KURODA & HABA in HABA, 1963**

(= *F. profundorum* HABA, 1964 non E. A. SMITH, 1894)

Tokusa-tsuno-gai (= Hosō-tokusa-tsuno-gai)

- Type locality: 'Tosa-okinoshima' (Okinoshima, southwestern Shikoku); 40 m., in coral sand.
- Distribution: western Suruga bay, P6-P5, southwestern Kyūshū (off Makurazaki).
- Habitat: 100-200 m., coral sand.

**S8 *F. (F.) kawamurai* KURODA & HABE in HABE, 1961-a**

Kawamura-tsuno-gai

- Type locality: off Cape Ashizuri, southwestern Shikoku; 100-200 m.
- Distribution: Bōsō peninsula and southwards, P7-P5, off southwestern Kyūshū.
- Habitat: 100-400 m., sand.

**S9 *F. (F.) horikoshii* OKUTANI, 1982-a**

Shinkai-futo-tsuno-gai

- Type locality: 'Sōyō-Maru' sta. R3, off Kinkazan (Miyagi prefecture, northeastern Honshū); 38° 21.7' N., 143° 25.6' E., 2930-3020 m.
- Distribution: northeastern Honshū (off Iwate prefecture to Miyagi prefecture).
- Habitat: 2000-3000 m., sand.

**Subgenus *Pictodentalium* HABE, 1963-a**

Type species: *Dentalium (Pictodentalium) formosum hirasei* KIRA, 1959 (o. d.; = *Dentalium formosum* ADAMS & REEVE, 1850) (= *Pictodentalium* KIRA, 1959 *nom. nud.* See BIELER & PETIT, 1996-a: 34)

**S10 *F. (P.) formosum formosum* (ADAMS & REEVE, 1850 in 1848-50)**

(= *Dentalium festivum* SOWERBY, 1913; *D. (P.) formosum hirasei* KIRA, 1959)

Nishiki-tsuno-gai

- Type locality: Sulu archipelago, Philippines; off Sulu City, 16-20 fms., sandy mud.
- Distribution: Kii peninsula and southwards, P5, EC5, ECP4-ECP2, P2; Philippines, Indonesia to New Caledonia.
- Habitat: intertidal to 20 m., sand.
- Original genus: *Dentalium*.

**S11 *F. (P.) formosum harrisoni* HABE, 1970-a**

Hanayaka-tsuno-gai

- Type locality: South China Sea (landed at Kaohsiung, Taiwan).
- Distribution: P2; Taiwan and southwards, South China Sea.
- Habitat: intertidal to 20 m., sandy mud.

**S12 *F. (P.) vernedei* (SOWERBY II, 1860 in 1842-87)**

Maru-tsuno-gai

- Type locality: Japan.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, East China Sea, P2; South China Sea, China.

- Habitat: 20-1000 m., sandy mud.
- Original genus: *Dentalium*.

**Subgenus *Compressidentalium* HABE, 1963**

Type species: *Dentalium hungerfordi* PILSBRY & SHARP, 1897 (o. d.)

**S13 *F. (C.) hungerfordi* (PILSBRY & SHARP, 1897)**

(= *Dentalium compressum* SOWERBY, 1888 *non* WATSON, 1879)

Hira-tsuno-gai

- Type locality: Hong Kong.
- Distribution: Bōsō peninsula and southwards, P7-P5, EC5, East China Sea; China, Indonesia.
- Habitat: 50-1570 m., sandy mud.
- Original genus: *Dentalium*.

**S14 *F. (C.) sibogae* (BOISSEVAIN, 1906)**

Suehiro-hira-tsuno-gai

- Type locality: 'Siboga' sta. 159, Halmaheira Sea, Indonesia: 00° 59' S., 129° 49' E., 411 m.
- Distribution: Tosa bay (southern Shikoku HABE, 1964-a) to Indonesia.
- Habitat: 200-400 m., fine sand.

**□ Genus *Lentigodentalium* HABE, 1963**

Type species: *Dentalium variabile* DESHAYES, 1826 (o. d.)

**S15 *L. variabilis* (DESHAYES, 1826)**

(= *Dentalium belcheri* SOWERBY, 1860 in 1842-87) Kasuri-tsuno-gai (= Futamata-tsuno-gai)

- Type locality: 'Inde?'
- Distribution: Suruga bay and southwards, P6-P5; Philippines, India.
- Habitat: 5-20 m., fine sand.
- Original genus: *Dentalium*.

**□ Genus *Antalis* H. & A. ADAMS, 1854 in 1853-58**

Type species: *Dentalium entalis* LINNAEUS, 1758 (s. d. PILSBRY & SHARP, 1897)

(= *Dentale* DACOSTA, 1778 *supp.* ICZN; *Antalis* HERRMANNSEN, 1846 *supp.* ICZN; *Entalopsis* NEWTON & HARRIS, 1894; *Entalis* GRAY, 1847 *non* SOWERBY, 1839; *Antale* SACCO, 1896)

**S16 *A. tibanum* NOMURA, 1940**

(= *Dentalium entalis* var. *indicum* BOISSEVAIN, 1906; *D. boissevaini* PALMER, 1974)

Migaki-maru-tsuno (= Migaki-tsuno)

- Type locality: off Bōsō Peninsula, central Honshū.
- Distribution: Bōsō peninsula and southwards, P7-P5, Japan Sea (Noto peninsula, J2-J1), EC5, ECP4-ECP2; Indonesia, Indo-Pacific, New Hebrides.
- Habitat: 10-200 m., sand.

**S17 *A. weinkauffi* (DUNKER, 1877)**

(= *A. septentrionalis* KURODA & HABE in HABE, 1963)

Tsuno-gai (= Kita-no-tsunogai)

- Type locality: Japan.
- Distribution: northern Honshū (Shimokita peninsula) and southwards, P9-P5, Japan Sea (Tsugaru peninsula, J4-J1), EC5, East China Sea; Indo-western Pacific.
- Habitat: 15-550 m., sandy mud.
- Original genus: *Dentalium*.

**S18 *A. marukawai* ŌTSUKA, 1933**

Marukawa-tsunogai

- Type locality: off Koshiki islands, southwestern Kyūshū; 200 m.
- Distribution: Tosa bay (HABE, 1964-a), western Kyūshū.
- Habitat: 100-400 m., sandy mud.

**S19 *A. tosaensis* HABE, 1963**

Tosa-tsunogai

- Type locality: Tosa bay, southern Shikoku; 200 m.
- Distribution: 'Shikoku and Honshū' (HABE, 1964-a).
- Habitat: 200-620 m., mud.

□ Genus *Striodentalium* HABE, 1964-a

Type species: *Dentalium rhabdotum* PILSBRY, 1905 (o. d.)

**S20 *S. rhabdotum* (PILSBRY, 1905)**

Muchi-tsunogai

- Type locality: Heda, Izu peninsula, Shizuoka prefecture, central Honshū.
- Distribution: southwestern Hokkaidō and southwards, P10-P5 (Suruga bay; Izu-Ōshima; Miyake island OKUTANI, 1966; 1968), Kii peninsula (TSUCHIDA, 1985-b), Japan Sea (Oga peninsula, J3-J1), EC5, East China Sea; western Pacific.
- Habitat: 20-620 m., mud.
- Original genus: *Dentalium*.

**S21 *S. hosoi* (HABE, 1963)**

Yase-tsunogai

- Type locality: Tosa bay, southern Shikoku; 200-760 m.
- Distribution: Tosa bay, off western and southern Kyūshū, EC5, ECP4, East China Sea.
- Habitat: 200-800 m., fine sand and mud.

□ Genus *Graptacme* PILSBRY & SHARP, 1897

Type species: *Dentalium eboreum* CONRAD, 1846 (s. d. WOODRING, 1925)

**S22 *G. acicula* (GOULD, 1859 in 1859-61)**

(= *Dentalium luchuanum* DALL, 1926)

Ryūkyū-tsunogai (= Hosoi-tsunogai)

- Type locality: 'Coast of China, 23° 50' N., in sand, 25 fathoms'.
- Distribution: Kii peninsula (HABE, 1977-a), Amami islands and southwards, ECP3-ECP2, P2; Philippines,

Indonesia, western Pacific.

- Habitat: intertidal to 100 m., fine sand.
- Original genus: *Dentalium*.

**Notes:** Mashira-hime-naga-tsunogai refers to the paralectotype of *Dentalium acutissima* WATSON, 1879 ('Challenger' sta. 246, mid-Pacific east of Japan: 36° 10' N., 178° 0' E., 2050 fms., grey ooze. BMNH 1887.2.9.33) which does not belong to that species (SCARABINO, 1995). *D. acutissima* is not distributed in Japan.

Family **LAEVIDENTALIIDAE PALMER, 1974**

□ Genus *Laevidentalium* COSSMANN, 1888

Type species: *Dentalium incertum* DESHAYES, 1826 (o. d.)

**S23 *L. eburneum* (LINNAEUS, 1767)**

(= *Dentalium philippinarum* SOWERBY, 1860 in 1842-87)

Meno-tsunogai

- Type locality: 'India'.
- Distribution: P2; Taiwan and southwards, Philippines, South China Sea.
- Habitat: 20-50 m., sand.
- Original genus: *Dentalium*.

**S24 *L. longitrorsum* (REEVE, 1843-d)**

Migaki-tsunogai (= Itoman-tsunogai)

- Type locality: 'Zanzibar'
- Distribution: Amami islands and southwards, ECP3-ECP2, P2; Philippines, Persian Gulf, New Guinea, India, Red Sea, southeastern Africa.
- Habitat: 50-200 m., sandy mud.
- Original genus: *Dentalium*.

**S25 *L. toyamaense* (KURODA & KIKUCHI, 1933)**

Toyama-tsunogai

- Type locality: Toyama bay, eastern Noto peninsula, central Honshū (Japan Sea); 200-400 m.
- Distribution: Izu islands (off Miyake island, 1080-1205 m. OKUTANI, 1968), Sagami bay (685-1520 m. OKUTANI, 1966; 1968) and southwards, Suruga bay, Kii peninsula (TSUCHIDA, 1985-b), Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; off Niigata prefecture; J3-J2).
- Habitat: 200-1400 m., mud.
- Original genus: *Dentalium*.

**S26 *L. sominium* OKUTANI, 1964-a**

Maboroshi-tsunogai

- Type locality: Sagami bay, central Honshū, 1320-1400 m.
- Distribution: western Kashima-nada, Izu islands (off Miyake island OKUTANI, 1968), Sagami bay (OKUTANI, 1964-a; 1966; 1968), Suruga bay, Kii peninsula (TSUCHIDA, 1985-b).
- Habitat: 600-1400 m., mud.

Family **FUSTIARIIDAE STEINER, 1991**

□ Genus ***Fustiaria* STOLICZKA, 1868 in 1868-69**

Type species: *Dentalium circinatum* SOWERBY I, 1823 (s. d. PILSBRY & SHARP, 1897)

(= *Pseudantalis* MONTEROSATO, 1884)

S27 ***F. nipponica* (YOKOYAMA, 1922)**

(= *Dentalium nagoense* DALL, 1927; *D. (Fustiaria) numatai* S. HIRASE, 1931)

Sake-tsuno-gai (= Nago-tsuno-gai; Mizo-naga-tsuno-gai; Yamato-tsuno-gai)

- Type locality: Shitō, Ichihara City, Chiba prefecture, central Honshū (fossil).
- Distribution: Kashima-nada and southwards, P8-P5, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J1), EC5, ECP4-ECP2, P2; Philippines, China, Indonesia, Indian Ocean, New Caledonia.
- Habitat: subtidal to 100 m., sand.
- Original genus: *Dentalium*.

S28 ***F. langfordi* (HABE, 1963)**

Kohaku-tsuno-gai

- Type locality: Itoman, southern Okinawa island.
- Distribution: off Chōshi (Chiba prefecture HABE, 1964-a) and southwards, P7-P5, EC5, ECP4-ECP2, P2; Malaysia, Indonesia, New Caledonia.
- Habitat: 50-200 m., sandy mud.
- Original genus: *Laevidentalium*.

Family **CALLIODONTALIIDAE CHISTIKOV, 1975**

□ Genus ***Calliodentalium* HABE, 1964-a**

Type species: *Dentalium crocinum* DALL, 1907 (o. d.)

S29 ***C. crocinum* (DALL, 1907-c)**

Safuran-tsuno-gai

- Type locality: USFC sta. 5094, Tōkyō bay: 35° 05' 34" N., 139° 38' 36" E., 188 fms.
- Distribution: off Chōshi (Chiba prefecture HABE, 1964-a) and southwards, P7-P5, Japan Sea (Toyama bay, J3-J1), EC5, East China Sea; China, Philippines.
- Habitat: 80-300 m., sandy mud.
- Original genus: *Dentalium*.

Family **GADILINIDAE CHISTIKOV, 1975**

Subfamily **GADILININAE CHISTIKOV, 1975**

□ Genus ***Gadilina* FORESTI, 1895**

Type species: *Dentalium triquetrum* BROCCCHI, 1814 (mt.)

S30 ***G. coruscum* PILSBRY, 1905**

(= *D. pachypleurum* BOISSEVAIN, 1906; *D. stapes* BOISSEVAIN, 1906)

Shirasaya-tsuno-gai (= Setomono-tsuno-gai; Makura-tsuno-gai)

- Type locality: 'Heda, Izu' (Izu peninsula, central Honshū); 167 fms.
- Distribution: Bōsō peninsula and southwards, P7-P5,

Japan Sea (Toyama bay, J3-J1), EC5; Indonesia, Indo-western Pacific.

- Habitat: 200-1134 m., mud.
- Original genus: *Dentalium*.

Subfamily **EPISIPHONINAE CHISTIKOV, 1975**

□ Genus ***Episiphon* PILSBRY & SHARP, 1897**

Type species: *Dentalium sowerbyi* GUILDING, 1834 (s. d. SUTER, 1913)

S31 ***E. yamakawai* (YOKOYAMA, 1927)**

(= *Dentalium subrectum* JEFFREYS, 1882 non COCCONI, 1873; *D. makiyamai* KURODA & KIKUCHI, 1933; *E. carneum* HABE & KOSUGE, 1964)

Yamakawa-tsuno-gai (= Roosoku-tsuno-gai)

- Type locality: Shinagawa, Tōkyō City (fossil).
- Distribution: Mutsu bay (Aomori prefecture) and southwards, P9-P5, Japan Sea (northern Niigata prefecture, J3-J1), EC5, ECP4-ECP2; Philippines, Indonesia, Indo-western Pacific.
- Habitat: 5-300 m., sandy mud.
- Original genus: *Dentalium*.

S32 ***E. candelatum* (KIRA, 1959)**

Wa-roosoku-tsuno-gai

- Type locality: Tosa bay off Kōchi prefecture, southern Shikoku; 80-100 fms.
- Distribution: northeastern Honshū (Iwate prefecture) and southwards, P9-P5, Tosa bay.
- Habitat: 100-200 m., sandy mud.
- Original genus: *Dentalium (Episiphon)*.

Family **OMNIGLYPTIDAE CHISTIKOV, 1975**

□ Genus ***Omniglypta* KURODA & HABE in HABE, 1953-a**

Type species: *Dentalium cerinum* PILSBRY, 1905 (o. d.)

S33 ***O. cerina* (PILSBRY, 1905)**

(= *Dentalium tracheatum sensu* PLATE, 1908)

Hari-tsuno-gai (= Chimaki-tsuno-gai)

- Type locality: off Shimizu, Suruga bay, central Honshū.
- Distribution: southwestern Hokkaidō and southwards, P10-P5, EC5; Indonesia.
- Habitat: 800-3295 m.
- Original genus: *Dentalium (Rhabdus)*.

Order **GADILIDA STAROBOGATOV, 1974**

Suborder **ENTALIMORPHA STEINER, 1992**

Family **ENTALINIDAE CHISTIKOV, 1979**

Subfamily **ENTALININAE CHISTIKOV, 1979**

□ Genus ***Entalina* MONTEROSATO, 1872**

Type species: *Dentalium tetragonum* BROCCCHI, 1814 (o. d.)

(= *Eudentalium* COTTON & GODFREY, 1933)

S34 ***E. mirifica* (E. A. SMITH, 1895-c)**

(= *E. quadriangularis* BOISSEVAIN, 1906; *E. majestica* KIRA, 1959)

Mikado-tsuno-gai

- Type locality: 'Investigator' sta. 172, off Trincomalee (Sri Lanka); 200-350 fms.
- Distribution: Sagami bay (OKUTANI, 1966) and southwards, Suruga bay, Enshū-nada, Kii peninsula (TSUCHIDA, 1985-b), Tosa bay to Indonesia, Indo-western Pacific, India.
- Habitat: 200-1300 m., sand and sandy mud.
- Original genus: *Dentalium*.

Subfamily **HETEROSCHISMOIDINAE CHISTIKOV, 1982**

□ Genus *Spadentalia* **HABE, 1963**

Type species: *Dentalium tubiforme* BOISSEVAIN, 1906 (o. d.)

S35 *S. tubiformis* (BOISSEVAIN, 1906)

Tsume-tsuno-gai

- Type locality: 'Siboga' sta. 212, Indonesia: 05° 56' S., 120° 19' E., 462 m.
- Distribution: Kii peninsula and southwards, P5 (southern Shikoku HABE, 1964-a), EC5 to Indonesia.
- Habitat: 200-500 m., sand.
- Original genus: *Dentalium*.

□ Genus *Entalinopsis* **HABE, 1957-a**

Type species: *Dentalium nivosum* KURODA & KIKUCHI, 1933 (o. d.; = *Dentalium intercostatum* BOISSEVAIN, 1906)

S36 *E. intercostata* (BOISSEVAIN, 1906)

(= *Dentalium nivosum* KURODA & KIKUCHI, 1933; *D. tugaruense* NOMURA & HATAI, 1940)

Yuki-tsuno-gai (= Tsugaru-tsuno-gai)

- Type locality: 'Siboga' sta. 178, Ceram Sea, Indonesia: 02° 40' S., 128° 37' E., 835 m.
- Distribution: Tsugaru strait and southwards, P10-P5, Japan Sea (Kyuroku island, J4-J1), EC5, East China Sea, P2; Philippines, Indonesia.
- Habitat: 40-850 m., fine sand.
- Original genus: *Dentalium*.

S37 *E. habutae* (KURODA & KIKUCHI, 1933)

Habutae-tsuno-gai

- Type locality: Toyama bay, eastern Noto peninsula, Japan Sea; 150-300 m.
- Distribution: Tsugaru strait and southwards, P9-P5, Japan Sea (off Niigata prefecture, J3-J1), EC5, East China Sea.
- Habitat: 50-500 m., sandy mud.
- Original genus: *Dentalium*.

□ Genus *Costentalina* **CHISTIKOV, 1982**

Type species: *Costentalina elegans* CHISTIKOV, 1982 (o. d.)

S38 *C. tuscarorae* **CHISTIKOV, 1982**

Nise-yakado-tsuno-gai

- Type locality: 'Vityaz' sta. 3575: 38 02' 01", 146 33' 01" E., 5475 m.
- Distribution: 'East of Japan and the Philippines' (SCARABINO, 1995).
- Habitat: 2050-5475 m.

□ Genus *Megaentalina* **HABE, 1963**

Type species: *Megaentalina teramachii* HABE, 1963 (o. d.; = *Entalina mediocarinata* BOISSEVAIN, 1906)

**Note:** this genus is provisionally positioned in this family following SCARABINO (1995).

S39 *M. mediocarinata* (BOISSEVAIN, 1906)

(= *M. teramachii* KURODA & HABE in HABE, 1963)

Okina-mikado-tsuno-gai

- Type locality: 'Siboga' sta. 5, Bali Sea, Indonesia: 07° 46' S., 114° 30' E., 330 m.
- Distribution: Mie prefecture (off Owase, 300 m. MATSUMOTO, 1979) and southwards, Kii peninsula, Tosa bay (HABE, 1964-a); Indonesia.
- Habitat: 200-400 m., sand.
- Original genus: *Entalina*.

S40 *M. cornucopiae* (BOISSEVAIN, 1906)

Odayaka-mikado-tsuno-gai

- Type locality: 'Siboga' sta. 52, Sunda Sea, Indonesia: 09° 03' S., 119° 57' E., 959 m.
- Distribution: Izu islands and southwards, P6, P11, northern Ogasawara islands to Indonesia, Indo-western Pacific.
- Habitat: 900-3250 m.
- Original genus: *Entalina*.

Subfamily **BATHOXIPHINAE CHISTIKOV, 1983**

□ Genus *Rhomboxiphus* **CHISTIKOV, 1983**

Type species: *Dentalium tricarinatum* BOISSEVAIN, 1906 (o. d.)

S41 *R. tricarinatus* (BOISSEVAIN, 1906)

(= *Dentalium (Compressidens) capensis* TOMLIN, 1931)

Hishi-tsuno-gai

- Type locality: 'Siboga' sta. 178, Ceram Sea, Indonesia: 02° 40' S., 128° 37' E., 835 m.
- Distribution: Sagami bay and southwards, Izu islands (off Miyake island OKUTANI, 1964-a; 1968), P11, northern Ogasawara islands to Indonesia, Indo-Pacific.
- Habitat: 495-4830 m., sand.
- Original genus: *Entalina*.

□ Genus *Bathoxiphus* **PILSBRY & SHARP, 1897**

Type species: *Dentalium ensiculum* JEFFREYS, 1877 (s. d. BOISSEVAIN, 1906)

S42 *B. soyomaruae* **OKUTANI, 1964-a**



Sōyō-tsunogai

- Type locality: 56 miles off Aogashima, Izu islands: 32° 20.0' N., 140° 55.5' E., 3150-3350 m.
- Distribution: off eastern Honshū; New Caledonia, Indian Ocean.
- Habitat: 2500-5000 m.

Suborder **GADILIMORPHA STEINER, 1992**

Family **PULSELLIDAE SCARABINO in BOSS, 1982**

□ Genus ***Pusellum* STOLICZKA, 1868 in 1868-69**

Type species: *Siphonodentalium lofotense* SARS, 1865 (s. d. COSSMANN, 1888)

(= *Siphonentalis* G. O. SARS, 1875; *Siphonodentalis* CLESSIN, 1896 *err. pro -nentalis*)

S43 ***P. hige* HABE, 1963**

(= *P. ozawai* auct. non YOKOYAMA, 1926)

Hige-tsunogai (= Toge-tsunogai)

- Type locality: Sagami bay, central Honshū ('Zushi, Kanagawa prefecture' is erroneous).
- Distribution: southern Hokkaidō (HABE, 1977-a) and southwards, P10-P5, Seto inland sea, Japan Sea (Oga peninsula, J3-J1), EC5, ECP4.
- Habitat: subtidal, sandy mud.

S44 ***P. kurogenge* HABE & KOSUGE, 1964**

Kuro-geenge-hige-tsunogai

- Type locality: off Chōshi (Chiba prefecture, central Honshū), ± 350 m.
- Distribution: recorded only from type locality.
- Habitat: 300-400 m., found in stomach of 'Kuro-geenge' (fish - *Furcimanus diaptera* GILBERT).

□ Genus ***Compressidens* PILSBRY & SHARP, 1897**

Type species: *Dentalium pressum* PILSBRY & SHARP, 1897 (o. d.)

S45 ***C. kikuchii* (KURODA & HABE, 1952-a)**

(= *Dentalium (Compressidens) stearnsii* sensu KURODA & KIKUCHI, 1933 non PILSBRY & SHARP, 1897)

Hina-tsunogai

- Type locality: Toyama bay, eastern Noto peninsula, Japan Sea; 200-300 m.
- Distribution: northeastern Honshū (off Iwate prefecture HABE, 1964-a), P8-P10, Japan Sea (off Tajima, Hyōgo prefecture K. ITŌ, 1967; J2-J4), OP, Kuril islands; Sakhalin.
- Habitat: 100-500 m., mud.
- Original genus: *Dentalium (Compressidens)*.

Family **GADILIDAE STOLICZKA, 1868 in 1868-69**

Subfamily **GADILINAE STOLICZKA, 1868 in 1868-69**

□ Genus ***Gadila* GRAY, 1847**

Type species: *Dentalium gadus* MONTAGU, 1803 (o. d.)

S46 ***G. anguidens* (MELVILL & STANDEN, 1898)**

Biidoro-harabuto-tsunogai (= Hari-harabuto-tsunogai)

- Type locality: Madras, India.
- Distribution: Amami islands (HABE, 1964-a) and southwards, ECP3-ECP2, P2; Philippines, Indonesia, India.
- Habitat: 2-30 m., sand.
- Original genus: *Cadulus*.

S47 ***G. colubridens* WATSON, 1879 in 1879-83**

- Type locality: 'Challenger' sta. 1886, 'N. E. point of New Zealand': 37° 34' S., 179° 22' E., 700 fms.
- Distribution: central Honshū (Izu islands, 620-1205 m.; Sagami bay, 1330-1520 m. OKUTANI, 1966; 1968); Indonesia, southwestern Pacific.

S48 ***G. sagamiensis* KURODA & HABE in KURODA et al., 1971**

(= *G. sagamiensis* KURODA, MS *sensu* HABE, 1953; OKUTANI, 1968 *nom. nud.*)

Sagami-harabuto-tsunogai

- Type locality: Sagami bay, central Honshū.
- Distribution: Sagami bay (565-600 m. OKUTANI, 1968), Suruga bay.
- Habitat: 400-780 m., fine sand and mud.

Subfamily **SIPHONODONTALIINAE SIMROTH, 1894**

□ Genus ***Siphonodentalium* M. SARS, 1859**

Type species: *Siphonodentalium vitreum* M. SARS, 1859 (o. d.)

(= *Siphonodontum* LOCARD, 1887 *err. pro -dentalium*; *Tubidentalium* LOCARD, 1887; *Pulchellum* MORELET, 1887)

S49 ***S. japonicum* HABE, 1960-b**

Nippon-kuchikire-tsunogai

- Type locality: Tomioka, Amakusa island, western Kyūshū.
- Distribution: northeastern Honshū (Iwate prefecture HABE, 1964-a) and southwards, P9-P5, Japan Sea (Oki islands HABE, 1964-a, J2-J1), EC5.
- Habitat: 30-300 m., sand.

S50 ***S. isaotakii* HABE, 1953-a**

Kuchikire-tsunogai

- Type locality: Tōkyō bay.
- Distribution: southern Hokkaidō (Hakodate HABE, 1964-a) and southwards, P10-P5, Japan Sea (Wakasa bay, J2-J1), EC5.
- Habitat: 5-400 m., mud in bays.

S51 ***S. okudai* HABE, 1953-a**

Kita-no-kuchikire-tsunogai

- Type locality: Akkeshi bay, Hokkaidō, ± 20 m.
- Distribution: southeastern Hokkaidō, northeastern Honshū (Ōtsuchi bay, 52-100 m., TSUCHIDA & HORI, 1992).

□ Genus ***Dischides* JEFFREYS, 1867**

Type species: *Dentalium bifissum* WOOD, 1842 (mt.)  
( = *Dicides* SACCO, 1897 err.)

**S52 *D. belcheri* (PILSBRY & SHARP, 1897)**

Futamata-tsuno-gai

- Type locality: 'North Pacific'.
- Distribution: Bōsō peninsula (HABE, 1964-a) and southwards, P7-P5, Japan Sea (off Tajima, J2-J1), EC5, ECP4-ECP2, P2.
- Habitat: intertidal to 50 m., sand.
- Original genus: *Cadulus*.

□ Genus *Polyschides* PILSBRY & SHARP, 1897

Type species: *Cadulus tetraschistus* WATSON, 1879 (o. d.)

Subgenus *Polyschides s. str.*

**S53 *P. (P.) sakuraii* (KURODA & HABE in HABE, 1961-a)**

Sakurai-harabuto-tsuno-gai

- Type locality: off Chōshi (Chiba prefecture, central Honshū); ± 200 m.
- Distribution: Sagami bay (OKUTANI, 1966; 1968) and northwards, Kashima-nada, Iwate prefecture (HABE, 1964-a), off southern Hokkaidō.
- Habitat: 100-1400 m., mud.
- Original genus: *Platyschides* (*Polyschides*).

**S54 *P. (P.) magnus* (BOISSEVAIN, 1906)**

( = *Cadulus summa* KURODA, MS auct., nom. nud.)

Daiō-harabuto-tsuno-gai

- Type locality: 'Siboga' sta. 88, Celebes Sea: 00° 35' S., 119° 08' E., 1301 m.
- Distribution: Sagami bay (OKUTANI, 1966; 1968) and southwards, Suruga bay, Tosa bay (HABE, 1964-a) to Indonesia, western Pacific.
- Habitat: 300-2350 m., sandy mud.
- Original genus: *Cadulus*.

**S55 *P. (P.) faustus* KURODA & HABE in KURODA et al., 1971**

( = *P. fausta* KURODA, MS auct., nom. nud.)

Kahō-harabuto-tsuno-gai

- Type locality: Sagami bay, central Honshū.
- Distribution: Sagami bay (685 m. OKUTANI, 1968), Suruga bay.
- Habitat: 50-100 m., fine sand.

**S56 *P. (P.) kayomaruuae* OKUTANI, 1975-b**

- Type locality: east of Izu-Ogasawara islands: 29° 49.0' N., 147° 09.9' E. to 28° 48.3' N., 147 09.0' E., 6200 m.
- Distribution: off eastern Honshū.
- Habitat: 5500-6000 m.

Subgenus *Platyschides* HENDERSON, 1920

Type species: *Cadulus grandis* VERRILL, 1885 (o. d.)

**S57 *P. (Platyschides) opportunus* (KURODA & HABE in HABE, 1961-a)**

Harabuto-tsuno-gai

- Type locality: off Zushi, eastern Sagami bay, central Honshū; 100-200 m.
- Distribution: Kashima-nada (off Ibaraki prefecture) and westwards, Sagami bay (OKUTANI, 1966), Suruga bay.
- Habitat: 200-780 m., mud.
- Original genus: *Gadila* (*Platyschides*).

**S58 *P. (Platyschides) viriginalis* (BOISSEVAIN, 1906)**

( = *Gadila novilunata* KIRA, 1959)

Yumi-hari-harabuto-tsuno-gai

- Type locality: 'Siboga' sta. 52, Savu Sea, Indonesia: 09° 03' S., 119° 57' E., 959 m.
- Distribution: Kii peninsula and southwards, Tosa bay (HABE, 1964-a); Philippines, Indonesia, New Caledonia.
- Habitat: 200-3010 m., sand.
- Original genus: *Cadulus*.

□ Genus *Sagamicadulus* SAKURAI & SHIMAZU, 1963

Type species: *Striocadulus* (*Sagamicadulus*) *elegantissimus* SAKURAI & SHIMAZU, 1963 (mt.)

**S59 *S. elegantissimus* SAKURAI & SHIMAZU, 1963**

Yūbi-harabuto-tsuno-gai

- Type locality: off Hayama, Sagami bay, Honshū; 30-70 fms.
- Distribution: Suruga bay, Sagami bay.
- Habitat: 50-150 m., fine sand. In stomachs of starfish 'Toge-mimizu-hitode' (*Astropecten polyacanthus* MÜLLER & TROSCHER).

• Species and genus group names treated as full entries in the text are given here in bold.

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Objective synonyms are given with their authors' names.

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**abbas**, *Conus* G3970  
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*abbatis*, *Voluta* DILLWYN = G3199  
*abbreviata*, *Cardita* SOWERBY = B757  
*abbreviata*, *Columbella* = G3612  
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*abbreviatum*, *Cirsotrema* G1818  
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*abbreviatus*, *Planaxis* = G619  
*abbreviatus*, *Pyrula* = G2388  
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*abercrombei*, *Raeta* = B878  
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**abyssicola**, *Bathytellina* B977  
**abyssicola**, *Benthomodiolus* B134  
**abyssicola**, *Limatula* B378  
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**abyssicola**, *Nassa* = G2965  
**abyssicola**, *Phacosoma* B1204  
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**abyssicola**, *Sarepta* B22  
**abyssicola**, *Solutosveltia* G3408  
**abyssicola**, *Subcancilla* G3260  
**abyssicola**, *Tibia* = G1026  
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**achatinella**, *Odostomia* G4259  
**acicula**, *Creseis* G4966  
**acicula**, *Graptacme* S22  
**acicula**, *Inella* G1677  
**acicula**, *Melanella* G2002  
**acicula**, *Zebina* G965  
**acicularis**, *Eulima* = G2002  
**aciculata**, *Cossmannica* G4206  
**aciculata**, *Melanella* G2014  
*Aciculina* from G2978  
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*Acinopsis* = *Alvania*  
*acinosa*, *Nassa* = G2933  
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**aculeatus**, *Strombus* = G1062  
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**aculeiformis**, *Conus* G4004  
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**acuminata**, *Cancilla* = G3266  
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**acuminata**, *Mitra* G3240  
**acuminata**, *Nassaria* G2663  
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**acuminatus**, *Microfusus* G2666  
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**acuta**, *Mitra* = G3258  
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*striatulum*, *Naucum* = G4913  
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# DISTRIBUTION MAPS

• The maps on the following pages divide the area covered by the present work into three sectors, represented by individual locality maps : northern (n), central (c) and southern (s). The coded zones (ECP4, J3 etc.) allow the distribution of individual species to be mapped from their text entries. A map of the entire area covered is also printed on the inside back cover for easy reference.

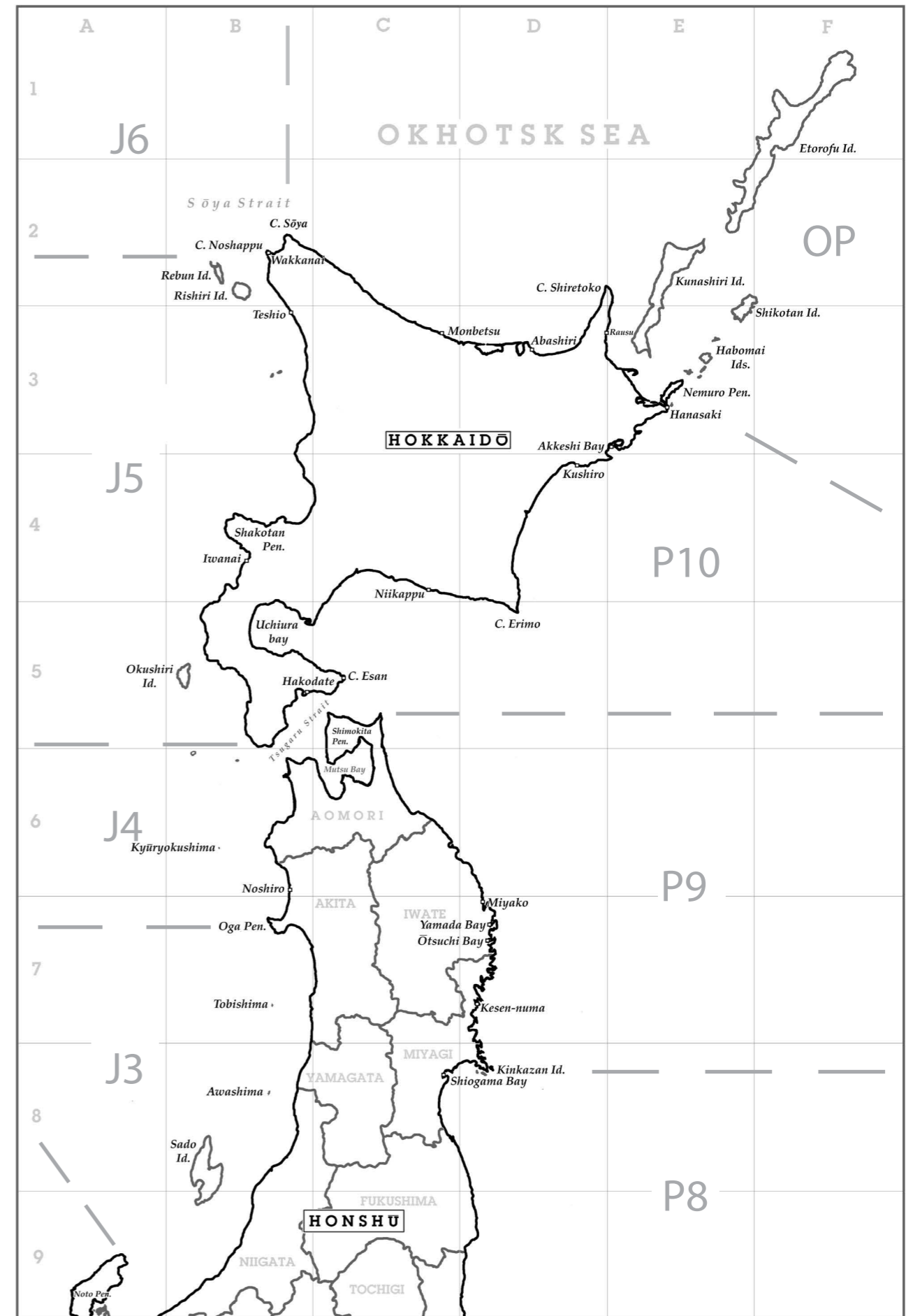
#### Key to localities

Only localities specifically mentioned in the main text are shown here and on the following maps.

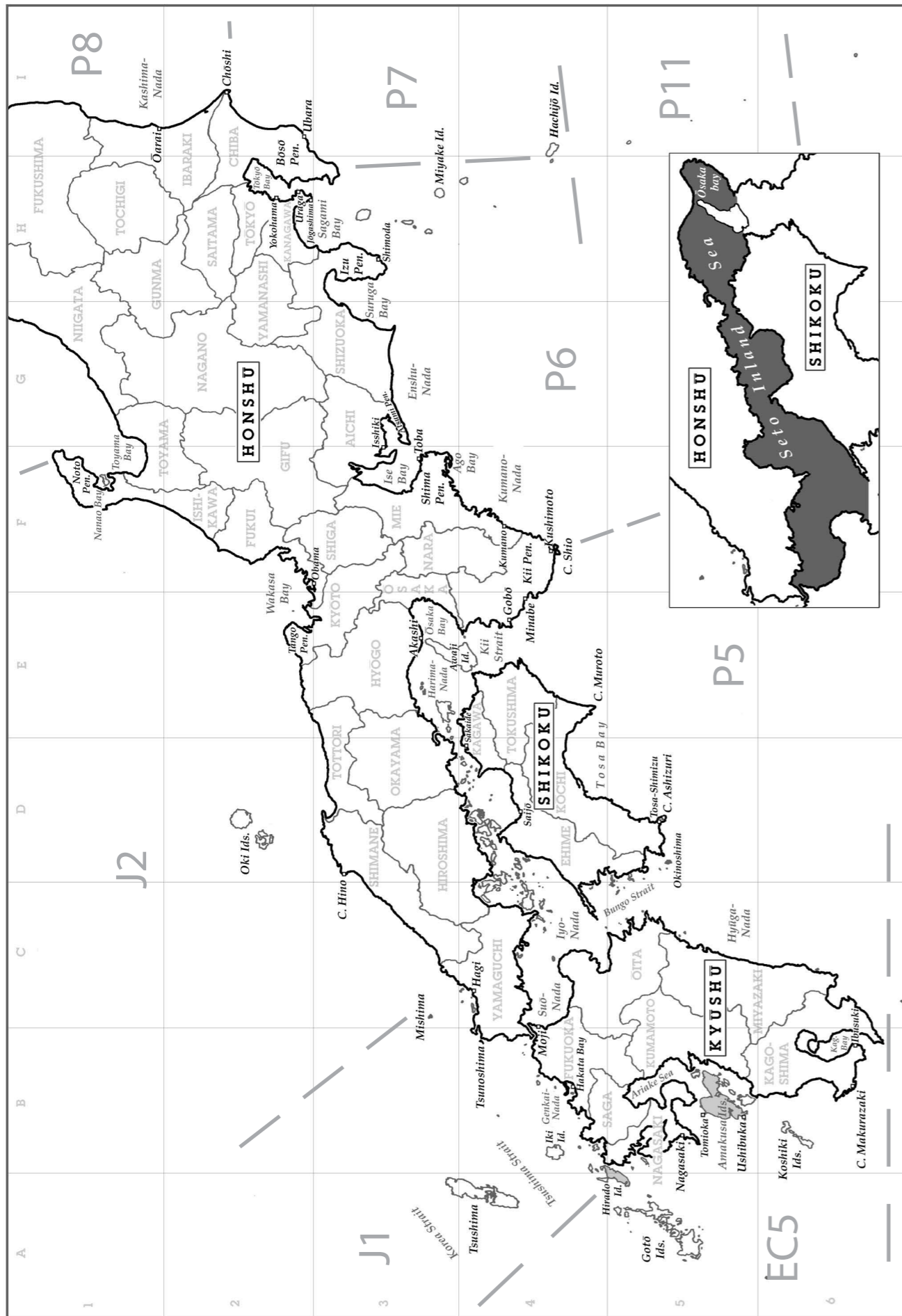
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Ago Bay cF3  
Akashi cE4  
Amakusa islands cB5  
Amami islands sE3  
Amami-Oshima sE3  
Ariake inland sea cB5  
Ashizuri, Cape cD5  
Atsumi peninsula cG3  
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Awashima nB8  
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Etorofu (island) nF1  
Genkai-Nada cB4  
Gobō cE4  
Gotō islands cA5  
Habomai islands nE3  
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Miyako island cC7  
Miyako islands sC6  
Miyako nD7  
Moji cB4  
Monbetsu nC3  
Muroto, Cape cE4  
Mutsu Bay nC6  
Nagasaki cB5  
Nanao Bay cF1  
Nemuro peninsula nE3  
Nikappu nC4  
Noshappu, Cape nB2  
Noshiro nB6  
Noto peninsula cF1  
Ōarai cI1  
Oga peninsula nB7  
Oki islands cD2  
Okinawa island sD5  
Okino-Erabu (island) sE4  
Okinoshima cD5  
Okushiri (island) nB5  
Ōsaka Bay cE3  
Otsuchi Bay nD7  
Rausu nD3  
Rebun (island) nB2  
Rishiri (island) nB2  
Sado (island) nB8  
Sagami Bay cH3  
Saijō cD4  
Sakaide cD4  
Senkaku islands sA6  
Shakotan peninsula nB4  
Shikotan (island) nE3  
Shima peninsula cF3  
Shimoda cH3  
Shimokita peninsula nC5  
Shiogama Bay nD8  
Shiono, Cape cF4  
Shiretoko, Cape nD2  
Sōya, Cape nB2  
Sōya Strait nB2  
Suō-Nada cC4  
Suruga Bay cH3  
Tanegashima (island) sF1  
Tango peninsula cE2  
Teshio nB2  
Toba cF3  
Tobishima nB7  
Tokara islands sE2  
Tokunoshima (island) sE4  
Tōkyō Bay cH2

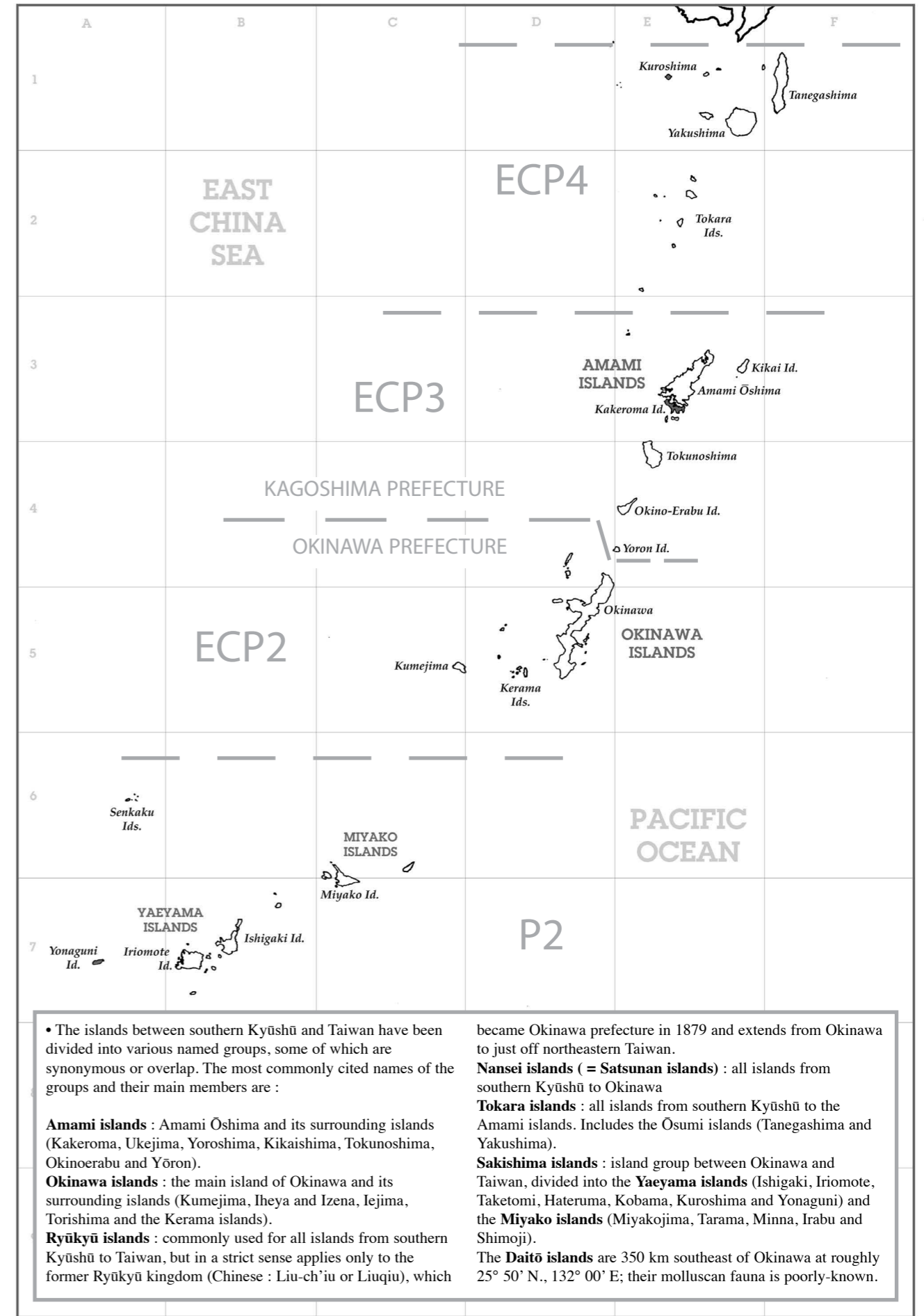
Tomioka cB5  
Tosa Bay cD4  
Tosa-Shimizu cD5  
Toyama Bay cF1  
Tsugaru, Strait nB5  
Tsunoshima cB4  
Tsushima cA4  
Tsushima Strait cA4  
Ubara cI2  
Uraga cH2  
Ushibuka cB5  
Wakasa Bay cE2  
Wakkanai nB2  
Yaeyama islands sB7  
Yakushima (island) sE1  
Yamada Bay nD7  
Yokohama cH2  
Yonaguni island sA7  
Yoron (island) sE4



CENTRAL SECTOR MAP



SOUTHERN SECTOR MAP



• The islands between southern Kyūshū and Taiwan have been divided into various named groups, some of which are synonymous or overlap. The most commonly cited names of the groups and their main members are :

**Amami islands** : Amami Ōshima and its surrounding islands (Kakeroma, Ukejima, Yoroshima, Kikaishima, Tokunoshima, Okinoerabu and Yōron).

**Okinawa islands** : the main island of Okinawa and its surrounding islands (Kumejima, Iheya and Izena, Iejima, Torishima and the Kerama islands).

**Ryūkyū islands** : commonly used for all islands from southern Kyūshū to Taiwan, but in a strict sense applies only to the former Ryūkyū kingdom (Chinese : Liu-ch'iu or Liuqiu), which

became Okinawa prefecture in 1879 and extends from Okinawa to just off northeastern Taiwan.

**Nansei islands ( = Satsunan islands )** : all islands from southern Kyūshū to Okinawa

**Tokara islands** : all islands from southern Kyūshū to the Amami islands. Includes the Ōsumi islands (Tanegashima and Yakushima).

**Sakishima islands** : island group between Okinawa and Taiwan, divided into the **Yaeyama islands** (Ishigaki, Iriomote, Taketomi, Hateruma, Kobama, Kuroshima and Yonaguni) and the **Miyako islands** (Miyakojima, Tarama, Minna, Irabu and Shimoji).

The **Daitō islands** are 350 km southeast of Okinawa at roughly 25° 50' N., 132° 00' E; their molluscan fauna is poorly-known.