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**REVISION OF MATAJIRO YOKOYAMA'S  
TYPE MOLLUSCA FROM  
THE TERTIARY AND QUATERNARY  
OF THE KANTO AREA**

By

Katura OYAMA

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# REVISION OF MATAJIRO YOKOYAMA'S TYPE- MOLLUSCA FROM THE TERTIARY AND QUATERNARY OF THE KANTO AREA

By

Katura OYAMA

Geological Survey of Japan

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## INTRODUCTION

It is not too much to say that the systematic studies of Tertiary and Quaternary molluscan faunae of Japan began from the late Dr. Matajiro YOKOYAMA's contributions, although there were a few preceding reports by BRAUNS, TOKUNAGA and others. Of YOKOYAMA's numerous papers those dealing with the molluscan faunae from the late Tertiary and Quaternary of the Kantô [=Kwanto] area make a foundation for the late Caenozoic stratigraphy and palaeontology of Japan. More than fifty years have passed since the publication of the first monograph of YOKOYAMA, 1920, and about twenty years since the revision of YOKOYAMA's works (1920-1927) by TAKI and OYAMA, 1954. The late Tertiary and Quaternary molluscan faunae of the Kantô area may be understandable through YOKOYAMA's monographs and our previous revision, but these papers are now out of print. Therefore a revised edition of them is keenly requested by various scientists including not only palaeontologists and geologists but also specialists and non-professional collectors of living Mollusca.

In this paper I present an up-to-date revision of YOKOYAMA's works (1920, 1922, 1924 and 1927 a, b) in a different way from that of TAKI and OYAMA, 1954, although Brachiopoda and corals are excluded. In our last revision YOKOYAMA's plates were reproduced in accordance to the original date of publication, and consequently fossils of the same taxonomical groups were often separated in two or more plates. Here I attempt to rearrange the illustrations to show taxonomically closest forms within the same plate for the convenience of readers' comparison.



The late Professor Matajiro  
YOKOYAMA (1860-1941)

It is my pleasure, if this work may serve for further advances in the study of the late Caenozoic Mollusca from the Kantô area and relevant regions.

Before going further, I am deeply indebted to Professor Tatsuro MATSUMOTO of Kyushu University for his advice and great care to publish this revision. Thanks are due to Professor Tetsuro HANAI, Dr. Kiyotaka CHINZEI and Dr. Itaru HAYAMI of the University of Tokyo who have given every facility to accomplish this study. I also wish to express sincere thanks to Dr. Masuoki HORIKOSHI of the Ocean Research Institute who has kindly assisted me to complete this work.

#### GENERAL REMARKS

The illustrations in this paper are rearranged from the plates of the following papers by the late Professor Matajiro YOKOYAMA.

1. Fossils from the Miura Peninsula and its immediate north. 1920
2. Fossils from the Upper Musashino of Kazusa and Shimosa. 1922
3. Mollusca from the Coral-Bed of Awa. 1924
4. Mollusca from the Upper Musashino of Tokyo and its suburbs. 1927
5. Mollusca from the Upper Musashino of western Shimosa and southern Musashi, 1927

In the revision by TAKI and OYAMA, 1954, still one more report of M. YOKOYAMA (1911) entitled "Climatic change in Japan since the Pliocene Epoch" was included. This is, however, excluded from the present revision. The specimens other than Mollusca were also illustrated in the report of the Coral-Bed (no. 3 of the above list), but the necessity for reproduction is not maintained in this paper.

The chapter of the Systematics occupies the main part of the text of this paper. It consists of the specific names of the YOKOYAMA's illustrated forms, followed by indication of plate and figure numbers (of this paper), selected synonymy, fossil occurrence, ecological data (geographical distribution, depth, bottom condition, etc. of the living species), and remarks, if necessary.

The ecological data are indicated by horizontal and vertical ranges and bottom material. The abbreviation of these data are as follows:

Horizontal range (latitude by degree). P: Pacific side of Japan, J: Japan Sea side of Japan, K: west side of Korean Peninsula, KJ: Japan Sea side of Korea, Ch: Chinese coast. (P -0 indicates the extension of habitat into southern hemisphere).

Vertical distribution. N<sub>0</sub>: tidal (intertidal) zone, N<sub>1</sub>: euneritic zone, from low tide mark to 20-30 m deep, N<sub>2</sub>: mesoneritic zone, from 20-30 to 50-60 m, N<sub>3</sub>: sub-

neritic zone, from 50-60 to 100-120 m, N<sub>4</sub>: bathyneritic zone, from 100-120 to 200-250 m, B: bathyal zone, from 200 to 1000 m.

Bottom characters. Al: alga, C: coral, G: gravel, pebble or stone bottom, Go: gorgonian, M: mud (sM: sandy mud), R: rock (sR: in sand deposited on rock), S: sand (cS: coarse sand, gS: sand containing gravels, pebbles or stones, mS: muddy sand, shS: shell sand), Sh: shell, Wd: wood.

[ ]: presumed from the allied living taxon, (?): data doubtful.

In the synonymy the references to YOKOYAMA's original description and illustration are indicated. In the case that YOKOYAMA's name [i. e. a name that YOKOYAMA used, either he proposed newly or he identified with the previously known form] is a junior synonym, the original descriptions of both valid and YOKOYAMA's names are referred to. In the other case that YOKOYAMA's name is a junior homonym, the reference to the substitute name is also indicated. The synonyms without any relationship with YOKOYAMA's name are omitted.

For the usage of the scientific name and its author I follow the provisions and recommendation of "The International Code of Zoological Nomenclature", and especially I endeavour to make the style be similar to the Official Lists. I use, however, a new style for the explanation of plates. In the case that I disagree with YOKOYAMA's identification, "sensu YOKOYAMA" is added to YOKOYAMA's name. If YOKOYAMA's name is a synonym of the revised name, I put colon. For example, "*Lucina borealis* LINNÉ sensu YOKOYAMA" is the case that YOKOYAMA's identification is disagreed with, but "*Arca fusca* BRUGUIÈRE: YOKOYAMA" means that it is a synonym of the name that I use [*Barbatia bicolorata* (DILLWYN)].

YOKOYAMA did not designate the type-specimen. Subsequent designation was made for many species by TAKI and OYAMA, 1954. We misused "holotype" for "lectotype" of the modern Code and their "monotype" should be corrected "holotype". While such a correction is made in this paper, I designate the type-specimen in the explanation of plates for a few species which have remained unfixed without previous designation. The repository of YOKOYAMA's original specimens is the University Museum of the University of Tokyo. Their register numbers are indicated in the explanation of plate, unless otherwise stated.

Almost all the figured specimens of YOKOYAMA belonging to Mollusca and Annelida are reillustrated in this paper, but the following two are not reproduced.

*Tonna luteostoma* (KÜSTER). *Dolium luteostomum* KÜSTER: YOKOYAMA, 1920, pl. IV, figs. 2 (Reg. no. CM 20179).

*Anadara (Scapharca) broughtonii* (SCHRENCK). *Arca inflata* REEVE: YOKOYAMA, 1920, pl. XVII, fig. 9 (Reg. no. CM 20617).

The two figures are considered as unnecessary, because there are similar and better figures for the same species.

I have rearranged the figures so that taxonomically allied species may be included within the same plate, but there are a few exceptions. For instance, figures of both valves of *Pecten (Notovola)* are too large to be included in a plate; they are separated into two plates—right valves in one plate and left valves in the other. *Glycymeris* consists of so many figures that they are separated into three plates—small forms in the first plate, external side of larger ones in the second, and the

internal side of the same larger ones in the third. Normally the plates are arranged in the systematic order, but in a few cases forms which show apparently similar features may be included within the same plate. For example, *Dentalium* and *Ditrupa* are included within a plate, as they show a similar form. Likewise *Trapezium*, *Notirus* and *Hiatella* are grouped within another plate. It may be convenient to show the species with similar features in one and the same plates, although they are not necessarily close to each other (or to one another) in the systematic position.

Annelida are not omitted from the illustration, because some of their tubes are apparently similar to Vermetidae and some others are so to *Dentalium*, although the systematic revision of them may not be sufficient.

### LOCALITY RECORDS

Localities and horizons of YOKOYAMA's type-specimens reillustrated in this paper are listed below. Some of the old place names have changed recently. In such a case the name in the present administration is written in square brackets. The location is indicated in Fig. 1 with a number which corresponds with that in parentheses in the list. In a few cases YOKOYAMA's place name is hardly allocated in the map because of insufficient record. The names of the formations from which YOKOYAMA's specimens were obtained are determined in the light of current knowledge of stratigraphy. If there is a debatable point, I depend on my own view. A table of correlation (Table 1) is shown for the convenience of readers, although I omit the discussion about the questionable points of correlation. For instance, the Pliocene-Pleistocene boundary in the table may be approximate or debatable.

#### I. Localities (in alphabetic order)

- Dôkanyama**, a hill at Yanaka, Taitô-ku, Tokyo. Tokyo Formation. 東京都台東区谷中道観山, 東京層 (11)
- Ichikawa**, Higashi-Katsushika-gun [now in Ichikawa City], Chiba Prefecture. Holocene, "Raised Beach Deposits" by Nomura, 1932. 千葉県市川市, 隆起海浜堆積物 (8)
- Kamakura** [at Kewaizaka in Kamakura City], Kanagawa Prefecture. Urago Formation. 神奈川県鎌倉市化粧坂, 浦郷層 (24)
- Kamenari**, Ômori-mura [now in Inzai-chô], Imba-gun, Chiba Prefecture. Imba Group. 千葉県印旛郡印西町 (旧大社村) 亀成, 印旛層群 (5)
- Kami-Miyata** [now in Miura City], Kanagawa Prefecture. "Miyata Formation." 神奈川県三浦市上宮田, "宮田層" (31)
- Kanazawa**, (Kuraki-gun), [now in Kanazawa-ku, Yokohama City]. Ôfuno Formation. 横浜市金沢区金沢 (旧久良岐郡), 大船層 (22)
- Kikkozan**. Uncertain. Presumably this may be Kamenokoyama, the Chinese characters of which were erroneously read "Kikkozan" by YOKOYAMA, 1920. As the locality is uncertain, the horizon is naturally uncertain. It could, however, possibly be either the Nakazato Formation or the Shimosueyoshi Formation. 亀甲山, 中里層または下末吉層 (?) (18)
- Kioroshi**, Imba-gun, Chiba Prefecture. Imba Group. 千葉県印旛郡木下, 印旛層群 (4)



Fig. 1. Map of southern Kantô area, showing localities of Yokoyama's type-specimens with circles. Solid circle: location precisely known; white circle: location approximate. Numbers correspond to those indicated in the list of localities in the text.

- |               |                  |                 |
|---------------|------------------|-----------------|
| 1 Shitô       | 13 Kuruma-chô    | 24 Kamakura     |
| 2 Shisui      | 14 Shinagawa     | (at Kewaizaka)  |
| 3 Ôtake       | 15 Shimosueyoshi | 25 Matsune      |
| 4 Kioroshi    | 16 Koyasu        | 26 Zushi        |
| 5 Kamenari    | 17 Namamugi      | 27 Yokosuka     |
| 6 Tega        | 18 "Kikkozan"    | 28 Ôtsu         |
| 7 Matsudo     | [Kamenoko-yama]  | 29 Ôkine        |
| 8 Ichikawa    | 19 Naganuma      | 30 Motowada     |
| 9 Ôji         | 20 Koshiba       | 31 Kami-Miyata  |
| 10 Takinogawa | 21 Teramae       | 32 Shimo-Miyata |
| 11 Dôkanyama  | 22 Kanazawa      | 33 Kô-yatsu     |
| 12 Sendagaya  | 23 Nojima        | 34 Numa         |



- Koshiba** (Shiba-machi, Kuraki-gun) [now in Kanazawa-Shiba-machi, Kanazawa-ku, Yokohama City]. Koshiba Formation, Kazusa Group. 横浜市神奈川区金沢柴町小柴 (旧久良岐郡柴町), 上総層群小柴層 (20)
- Koyasu**, Tachibana-gun [now in Kôhoku-ku, Yokohama City]. Shimosueyoshi Formation. 横浜市港北区小安, 下末吉層 (16)
- Kô-yatsu** [now Kô in Tateyama City], Chiba Prefecture. Holocene, "Raised Beach Deposits" of NOMURA, 1932. 館山市香谷 (香), 隆起海浜堆積物 (33)
- Kuruma-cho**, Shiba [now Takanawa 2-chome, Minato-ku]. Tokyo. Tokyo Formation. 東京都港区高縄二丁目 (芝車町), 東京層 (13)
- Matsudo**, Higashi-Katsushika-gun [now Matsudo City], Chiba Prefecture. 千葉県松戸市 (旧東葛飾郡) (7)
- Matsune** near Ninomiya [Naka-gun], Kanagawa Prefecture. Horizon uncertain, although it could be the Sagami Group. 神奈川県中郡松根 (二ノ宮の近く) (25)
- Motowada**, Miura-gun [now in Miura City], Kanagawa Prefecture. "Miyata Formation." 神奈川県三浦市 (旧三浦郡) 元和田, "宮田層" (30)
- Naganuma** [now in Totsuka-ku, Yokohama City]. The majority of fossils of Naganuma in this report came from the Naganuma Formation, but exceptionally a few forms from the underlying Nakazato Formation. 横浜市戸塚区長沼, 長沼層 (例外的に中里層) (19)
- Namamugi**, Tachibana-gun [now in Tsurumi-ku, Yokohama City]. Shimosueyoshi Formation. 横浜市鶴見区 (旧橋郡) 生麦, 下末吉層 (17)
- Nojima**, Kuraki-gun [now in Kanazawa-ku, Yokohama City]. Nojima Formation. 横浜市金沢区 (旧久良岐郡) 野島, 野島層 (23)
- Numa** [now in Tateyama City], Chiba Prefecture. Holocene, "Coral Bed," i. e. "Raised Beach Deposits" of NOMURA, 1932. 千葉県館山市沼, サング層 (隆起海浜堆積物) (34)
- Ôji** [now in Kita-ku], Tokyo. Tokyo Formation. 東京都北区王子, 東京層 (9)
- Ôkine**, Hatsuse-machi, Miura-gun [now in Yokosuka City], Kanagawa Prefecture. "Miyata Formation." 神奈川県横須賀市 (旧三浦郡) 初声町大木根, "宮田層" (29)
- Ôtake**, Yabu-mura, Imba-gun [now in Narita City], Chiba Prefecture. Imba Group. 千葉県成田市 (旧印旛郡) 八生村大竹, 印旛層群 (3)
- Ôtsu**, [now in Yokosuka City], Kanagawa Prefecture. Ôtsu Formation. 神奈川県横須賀市大津, 大津層 (28)
- Sendagaya**, (Toyotama-gun), [now 5-chome, Jingûmae, Shibuya-ku, Tokyo]. Fossils were collected from the bottom of a well by G. YAMAKAWA, as mentioned by YOKOYAMA, 1927, p. 391, foot-note 4. Tokyo Formation. 東京都渋谷区神宮前5丁目 (旧豊多摩郡千駄ヶ谷), 東京層 (12)
- Shimo-Miyata**, (Miura-gun) [now in Miura City], Kanagawa Prefecture. "Miyata Formation." 神奈川県三浦市 (旧三浦郡) 下宮田, "宮田層" (32)
- Shimosueyoshi**, Tachibana-gun [now in Tsurumi-ku, Yokohama City]. Shimosueyoshi Formation. 横浜市鶴見区 (旧橋郡) 下末吉, 下末吉層 (15)
- Shinagawa** [now in Minato-ku], Tokyo. Tokyo Formation. 東京都港区品川, 東京層 (14)
- Shisui**, Imba-gun, Chiba Prefecture. Imba Group. 千葉県印旛郡酒々井, 印旛層群 (2)
- Shitô**, (Ichihara-gun) [now in Ichihara City], Chiba Prefecture. This fossil locality has been well known as the Semata Shell Bed rather than Shitô. An outcrop

at Ochi-Shimoshinden yields fossils at two horizons. The bed of the upper horizon belongs to the Imba Group and contains shallow, cold water elements. That of the lower horizon belongs to the Ichihara Group and its fossils consist of elements of warm water at moderate (60 to 120 m.) depth. The fossiliferous beds of the two separate horizons have been both called the "Semata Shell Bed." 千葉県市原市市東 (越智下新田) "瀬又貝化石層" 印旛層と市原層 (1)

**Tabata** [Tabata-machi, Kita-ku], Tokyo. Tokyo Formation. 東京都北区田端町, 東京層 (10)

**Tega**, [now in Shōnan-chō], Higashi-katsushika-gun, Chiba Prefecture. Imba Formation. 千葉県東葛飾郡沼南町手賀, 印旛層 (6)

**Teramae**, (Kuraki-gun) [now in Kanazawa-ku, Yokohama City]. Ōfuna Formation. 横浜市金沢区寺前, 大船層 (21)

**Yokosuka** [Yokosuka City]. This is somewhere in Yokosuka City, but the record is not precise enough to be allocated with solid circle in the map of Fig. 1. The stratigraphic horizon is accordingly uncertain. There are at least three fossil localities in Yokosuka. 横須賀 (27)

**Zushi** [Zushi City], Kanagawa Prefecture. Fossils occur abundantly from the Ta-koegawa Conglomerate, Zushi Formation. 神奈川県逗子, 逗子層田越川礫岩 (26)

## II. Stratigraphic Horizons

**Coral Bed.** See "Raised Beach Deposits" (Holocene).

**Ichihara Group** (here proposed). Lower part of the Narita Group, containing many warm water elements. Upper Pleistocene.

**Imba Group** (here proposed). Upper part of the Narita Group, containing many cold water elements. Upper Pleistocene.

**Kazusa Group.** Upper part of the so-called Miura Group. It comprises the following fossil-bearing beds in ascending order: the Nojima, the Ōfuna, the Koshiha, and the Nakazato Formation. The Koshiha is, however, a wedge shaped unit, decreasing its thickness to the west. It has been made clear that the upper part of the Ōfuna Formation and the lower part of the Nakazato Formation are of the same age as the lower and upper parts of the Koshiha Formation, respectively. Kazusa Group is Pliocene to lowest Pleistocene.

**Koshiha Formation.** A unit of sand facies rich in fossil shells, occurring in the middle part of the Kazusa Group (*q. v.*). Pliocene.

"**Miyata Formation**". This has been generally considered as representing a single stratigraphic unit. Actually two or more, previously neglected unconformities have recently been recognized. Middle to Upper Pleistocene.

**Naganuma Formation.** Lower Pleistocene.

**Nakazato Formation.** Upper part of the Kazusa Group (*q. v.*). Lowest Pleistocene, partially Pliocene (?)

**Narita Group.** This consists of two parts, the Ichihara Group (*q. v.*) in the lower and the Imba Group (*q. v.*) in the upper.

**Nojima Formation.** Lower part of the Kazusa Group (*q. v.*), Pliocene.

**Ōfuna Formation.** Lower to Middle part of the Kazusa Group (*q. v.*). Pliocene.

Table 1. Correlation Table showing Upper Caenozoic Formations in southern Kanto area

	Miura Peninsula (South) (North)	Yokohama	Tokyo	Chiba Prefecture
Holocene	"Raised Beach Deposits"	"Raised Beach Deposits"		"Raised Beach Deposits" (Coral Bed)*
Pleistocene	"Miyata F."* (To be divided with unconformities)	Shimosueyoshi F.*	Tokyo F.*	Imba G.*
	Otsu F.*	Byôbugaura F.	↑ ?	Ichihara G.*
	↓ ?	Naganuma F.*		↓ ?
Pliocene		Hama F.		"Narita G."
		Nakazato F.*		
		Koshiha F.*		
		Ôfuna F.*		
		Nojima F.*		Kazusa G.
		Kazusa G.		
	Uragô F.*			
	Ikego F.			
Upper Miocene	Zushi F.*			
	(Takoegawa Conglomerate)			

F.=Formation, G.=Group. \* The formation or group from which YOKOYAMA's illustrated type-specimens came. ~ Unconformity.

**Ôtsu Formation.** Pleistocene.

**Raised Beach Deposits.** NOMURA, 1932, used this name for the Holocene [Recent] deposits around the Kantô area.

**Semata "Formation."** This is the stratigraphic unit which comprises YOKOYAMA'S locality "Shito." Although there are several outcrops of fossiliferous beds scattering in the village called Shitô in YOKOYAMA'S date, they have been comprehensively called the Semata Formation. At one of the outcrops near Ochi-Shimoshinden, are exposed two fossiliferous beds separated by an unconformity, of which the lower one belongs to the Ichihara Group and the upper one to the Imba Group. Upper Pleistocene.

**Shimosueyoshi Formation.** Upper Pleistocene.

**Takoegawa Conglomerate.** See Zushi Formation.

**Tokyo Formation.** Upper Pleistocene deposits in Tokyo have been comprehensively called the Tokyo Formation, but one or more unconformity (-ies) may exist within the sequence. The fossiliferous bed of YOKOYAMA'S localities Shinagawa and Kuruma-cho may be an extension of the Shimosueyoshi Formation, while that of Ôji must be the deposits of the same sea bottom as that of certain localities of the Imba Group such as Kioroshi and Shisui, or the upper horizon of the Semata "Formation."

**Zushi Formation.** Fossils occur abundantly in the Takoegawa Conglomerate. Although this formation was considered as Pliocene, micropalaeontologists have recently concluded that it is Miocene.

## SYSTEMATICS

Phylum Mollusca

Classis Gastropoda

Subclassis Streptoneura (Prosobranchia)

Ordo Archaeogastropoda

Subordo Docoglossa

Familia Acmaeidae

Genus *Collisella* DALL, 1871

Subgenus *Conoidacmea* HABE, 1944

*Collisella (Conoidacmea) heroldi* (DUNKER) コガモガイ .....Pl. 1. Figs. 3, 8.

1861. *Patella heroldi* DUNKER, Moll. Japon., p. 24, pl. III, fig. 13.—1920. *Acmaea heroldi* DUNKER: YOKOYAMA, Foss. Miura [etc.], pp. 99-100, pl. VI, figs. 12a-b.—1927. *Helcioniscus toreuma* (REEVE): YOKOYAMA, Moll. Tokyo [etc.], p. 429, pl. XLVIII, fig. 4.

Fossil occurrence.—Ôtsu and Tabata. Ecology.—P 23-39, J -43.  $N_0^+$ ,  $N_0$ . R. On rocks of spray to tidal surface ( $N_0^+$ ,  $N_0$ ).

Genus *Acmaea* ESCHSCHOLTZ, 1833

*Acmaea pallida* (GOULD) ユキノカサ .....Pl. 1. Figs. 1, 5

1859. *Patella pallida* GOULD, Proc. Boston Soc. nat. Hist., vol. VII, p. 162.—1862. *Patella*

*pallida* GOULD: GOULD, Otia conch., p. 115.—1920. *Helcioniscus pallidus* (GOULD).  
YOKOYAMA, Foss. Miura [etc.], p. 101, pl. VI, figs. 16a, 16b, 17a, 17b.  
Fossil occurrence.—Koshiba. Ecology.—P 35-42, J 32-46. N<sub>1-3</sub>. R, cS.

Subordo Rhipidoglossa  
Superfamilia Haliotiacea  
Familia Scissurellidae  
Genus *Scissurella* D'ORBIGNY, 1823

*Scissurella staminea* (ADAMS (A.)) クチキレエビス .....Pl. 1. Fig. 26

1862. *Anatomus stamineus* ADAMS (A.), Ann. Mag. nat. Hist., ser. 3, vol. X, no. 59, p. 348.—  
1924. *Scissurella turbinata* (A. ADAMS): YOKOYAMA, Moll. Coral-Bed, pp. 35-36, pl. V,  
fig. 21.

Fossil occurrence.—Numa. Ecology.—P 31-35, J -36. N<sub>1</sub>.

Familia Fissurellidae  
Genus *Emarginula* LAMARCK, 1801

*Emarginula fragilis* YOKOYAMA ハブタエスソキレガイ .....Pl. 1. Fig. 13

1920. *Emarginula fragilils* YOKOYAMA, Foss. Miura [etc.], p. 98, pl. VI, fig. 7a, 7b.  
Fossil occurrence.—Shimo-Miyata. Ecology.—P 33-35, J -41. N<sub>3</sub>. S.

Genus *Tugali* GRAY, 1843 (*Tugalia*)

*Tugali vadososinuata* (YOKOYAMA) コシタカサルアワビ .....Pl. 1. Figs. 2, 6

1920. *Emarginula* sp.: YOKOYAMA, Foss. Miura [etc.], p. 99, pl. VI, figs. 15a, 15b.—1922.  
*Emarginua vadososinuata* YOKOYAMA, Foss. Kazusa Shimosa, p. 117, pl. VI, fig. 5.

Fossil occurrence.—Koshiba, Shitô (Semata Formation). Ecology.—P 39, J 39.

Genus *Clypidina* GRAY, 1847

Subgenus *Montfortula* IREDALE, 1915

*Clypidina* (*Montfortula*) *picta* (DUNKER) スソカケガイ .....Pl. 1. Fig. 4

1860. *Emarginula picta* DUNKER, Malacoz. Bl., Bd. VI (1859), p. 226.—1861. *Emarginula picta*  
DKR.: DUNKER, Moll. Japon., pp. 23-24, pl. III, fig. 15.—1924. *Subemarginula cratitioides*  
YOKOYAMA, Moll. Coral-Bed, pp. 36-37, pl. II, fig. 10.

Fossil occurrence.—Numa. Ecology.—P 14-35, J -37. N<sub>0</sub>. R. (Upper part of rock surface of tidal zone. Also, tide pool in spray zone).

Genus *Puncturella* LOWE, 1827

Subgenus *Puncturella* s. str.

*Puncturella* (*Puncturella*) *nobilis* (ADAMS (A.)) コウダカスカシガイ .....Pl. 1. Fig. 12

1860. *Cemoria nobilis* ADAMS (A.), Ann. Mag. nat. Hist., ser. 3, vol. VI, no. 36, p. 422.—  
1863. *Cemoria nobilis* A. ADAMS: ADAMS (A.) in SOWERBY (G. B. II), Thes. Conch., vol.  
III, pt. 22, p. 208, pl. 245, *Cemoria*, figs. 6-9.—1922. *Puncturella nobilis* (A. ADAMS):

YOKOYAMA, Foss. Kazusa Shimosa, pp. 116-117. pl. VI, fig. 4.  
Fossil occurrence.—Shitô (Semata Formation). Ecology.—P 39-46, J 36-46. N<sub>1</sub>.

*Puncturella (Puncturella) fastigiata* ADAMS (A.) エンスイスカシガイ ....Pl. 1. Fig. 11

[1853]. *Puncturella fastigiata* ADAMS (A.), Proc. Zool. Soc. London, pt. XIX (1851), no. CCXXXIII, p. 228.—1920. *Puncturella subconica* YOKOYAMA, Foss. Miura [etc.], pp. 97-98, pl. VI, fig. 7a, 7b.

Fossil occurrence.—Koshiha. Ecology.—P 35-41, J -41.

#### Genus *Diodora* GRAY, 1821

*Diodora yokoyamai kosibensis* OTUKA コシバテンガイ .....Pl. 1. Fig. 10

1920. *Fissuridea* cf. *tanneri* (VERRILL): YOKOYAMA, Foss. Miura [etc.], pp. 96-97, pl. VI, fig. 18a-b.—1937. *Diodora yokoyamai kosibensis* OTUKA, Jour. Geol. Soc. Japan, vol. XLIV, no. 529, p. 944, pl. 30, figs. 5a, b.

Fossil occurrence.—Koshiha. Ecology.—P 33-35.

*Diodora quadriradiata* (REEVE) var. テンガイ .....Pl. 1. Fig. 15

1850. *Fissurella quadriradiata* REEVE, Conch. Icon., vol. VI, *Fissurella*, sp. 108, pl. XIV, fig. 108.  
—1924. *Fissuridea rueppellii* (SOWERBY): YOKOYAMA, Moll. Coral-Bed, p. 36, pl. II, fig. 9.

Fossil occurrence.—Numa. Ecology.—P 9-35, J -37. N<sub>0-1</sub>. gR, gS.

#### Genus *Macroschisma* GRAY in SOWERBY (G. B. II), 1839

*Macroschisma sinense* ADAMS (A.) スカシガイ .....Pl. 1, Fig. 17

1855. *Macroschisma sinensis* [-e] ADAMS (A.), Proc. Zool. Soc. London, pt. XXIII (1855), no. CCXCII, p. 122.—1920. *Macroschisma sinensis* [-e] A. ADAMS: YOKOYAMA, Foss. Miura [etc.], p. 96, pl. VI, fig. 3.

Fossil occurrence.—Ôtsu. Ecology.—P 0-39, J -40. N<sub>0-1</sub>. gR.

*Macroschisma dilataum* ADAMS (A.) ヒラスカシガイ .....Pl. 1, Fig. 14

[1851]. *Macroschisma dilatata* [-um] ADAMS (A.), Proc. Zool. Soc. London, pt. XVIII (1850), no. CCXIII, p. 202.—1922. *Macroschisma sinensis* [-e] AD. var. *brevis* [-e] YOKOYAMA, Foss. Kazusa Shimosa, pp. 115-116, pl. VI, fig. 3.

Fossil occurrence.—Ôtake. Ecology.—P 31-39, J -40. N<sub>0-1</sub>. R, gR.

#### Superfamilia Trochacea

##### Familia Trochidae

##### Subfamilia Solariellidae

#### Genus *Ethaliopsis* SCHEPMAN, 1908

*Ethaliopsis* sp. ....Pl. 1, Fig. 20

1920. *Margarita umbilicalis* BRODERIP et SOWERBY: YOKOYAMA, Foss. Miura [etc.], p. 91, pl. V, fig. 29.—1954. *Solariella* sp.: TAKI & OYAMA, Plioc. [etc.] Kwanto Reg., p. 4, pl. 6, fig. 29.

Fossil occurrence.—Kamakura. Ecology.—Unknown.

Genus *Minolia* ADAMS (A.), 1860Subgenus *Minolia* s. str.

*Minolia (Minolia) subangulata* KURODA & HABE カドコシタカシタダミ ..Pl. 2, Fig. 5

1922. *Solariella angulata* TOKUNAGA: YOKOYAMA, Foss. Kazusa Shimosa, p. 111, pl. V, fig. 20.  
—1952. *Minolia subangulata* KURODA & HABE, Check List [etc.] Mar. Moll. Japan, pp. 12, 66, new name for *Solariella angulata* [sensu] YOKOYAMA, not TOKUNAGA  
Fossil occurrence.—Shitô. Ecology.—P 34-39, J -36. N<sub>3</sub>. mS.

Remark.—*Solariella angulata* TOKUNAGA is a junior synonym of *Conotalopia ornata* (SOWERBY) which belongs to the subfamily Umboniinae. YOKOYAMA'S "*Solariella angulata*" was often called "*Minolia punctata* ADAMS (A.)", but both names are not to be used for the present species.

Subgenus *Machaeroplax* FRIELE, 1877

*Minolia (Machaeroplax) delicata* (DALL) ウバシタダミ .....Pl. 2, Fig. 13

1919. *Solariella delicata* DALL, Proc. U.S. Nat. Mus., vol. 56, no. 2295, p. 362.—1920. *Margarita cinerea* COUTHOUY: YOKOYAMA, Foss. Miura [etc.], pp. 91-92, pl. V, fig. 30.  
Fossil occurrence.—Kami-Miyata. Ecology.—P 35-38. N<sub>3-4</sub>. B. M.

Genus *Turcica* ADAMS (H.) & ADAMS (A.), 1854

*Turcica coreensis* PEASE マキアゲエビス .....Pl. 2, Fig. 12, 16

1860. *Turcica coreensis* PEASE, Proc. Zool. Soc. London, 1860, pt. 428, p. 189; pt. 425, pl. Ll, fig. 2.—1864. *Turcica imperialis* A. ADAMS, Proc. Zool. Soc. London, 1863, no. XXXII, p. 507.—1920. *Turcica imperialis* A. ADAMS: YOKOYAMA, Foss. Miura [etc.], pp. 92-93, pl. V, fig. 31.—1922. *Turcica imperialis* A. ADAMS: YOKOYAMA, Foss. Kazusa Shimosa, pp. 111-112, pl. V, fig. 23.

Fossil occurrence.—Shimo-Miyata, Shitô. Ecology.—P 31-42, J -45. N<sub>3-4</sub>. S.

Remark.—*Turcica imperialis* ADAMS (A.) is a junior synonym of *Turcica coreensis* PEASE.

Genus *Bathybembix* CROSSE, 1893

*Bathybembix crumphi yokoyamai* (OTUKA) ヨコヤマギンエビス .....Pl. 1, Fig. 21, 22

1920. *Bembix crumphi* (PILSBRY): YOKOYAMA, Foss. Miura [etc.], p. 90, pl. V, figs. 27, 28.—  
1943. *Turcicula crumphi yokoyamai* OTUKA, Conch. Asiat., vol. 1, p. 103, text-figs. 5a, b.  
Fossil occurrence.—Kamakura and Teramae. Ecology.—[P 31-42, J -42. N<sub>4</sub>. R.]

*Bathybembix argenteonitens* (LISCHKE) (forma *convexiusculus* YOKOYAMA)

ギンエビス (フクレギンエビス型) .....Pl. 1, Fig. 24

1872. *Trochus argenteo-nitens* LISCHKE, Malacoz. Bl., Bd. XIX, p. 104.—1874. *Trochus argenteonitens* LISCHKE: LISCHKE, Japan. Meer.-Conch., Bd. III, pp. 66-67, pl. IV, fig. 1.

—1920. *Bembix convexiusculum* YOKOYAMA, Foss. Miura [etc.], p. 90, pl. V, figs. 32a-b.  
Fossil occurrence.—Kamakura. Ecology.—P 33. B.

Genus *Euchelus* PHILIPPI, 1847

- Euchelus pauperculus* (LISCHKE) イボサンシヨウガイモドキ .....Pl. 1, Fig. 19
1872. *Trochus pauperculus* LISCHKE, Malacoz. Bl., Bd. XIX, p. 105. —1874. *Trochus pauperculus* LISCHKE: LISCHKE, Japan. Meer.-Conch., Bd. III, p. 69, pl. IV, figs. 9-11. —1920. *Euchelus fenestratus* YOKOYAMA, Foss. Miura [etc.], p. 94, pl. VI, figs. 2a-b.
- Fossil occurrence.—Yokosuka. Ecology.—P 31-35, J -36. N<sub>0-1</sub>. gR. Under stones which rest on rock floor.

Genus *Granata* COTTON, 1957

- Granata lyrata* (PILSBRY) アシヤガイ .....Pl. 2, Fig. 14
1890. *Stomatella lyrata* (A. AD) PILSBRY in TRYON and PILSBRY, Man. Conch., vol. XII, pt. 45, pp. 12-13, pl. 2, figs. 3-5. —1922. *Stomatella lyrata* PILSBRY: YOKOYAMA, Foss. Kazusa Shimosa, p. 115, pl. VI, fig. 2.
- Fossil occurrence.—Ôtake. Ecology.—P 31-41, J -41. N<sub>0-1</sub>. gR. Under stones lying on rock surface of lower tidal zone to euneritic bottom.

## Subfamilia Calliostomatinae

Genus *Calliostoma* SWAINSON, 1840Subgenus *Tristichotrochus* IKEBE, 1942

- Calliostoma (Tristichotrochus) consors* (LISCHKE) コシタカエビス .....Pl. 2, Figs. 1, 8
1872. *Trochus consors* LISCHKE, Malacoz. Bl., Bd. XIX, pp. 105-106. —1874. *Trochus consors* LISCHKE: LISCHKE, Japan. Meer.-Conch., Bd. III, pp. 65-66, pl. IV, figs. 2, 3. —1920. *Calliostoma sagamianum* YOKOYAMA, Foss. Miura [etc.], pp. 93-94, pl. VI, figs. 1a, 1b. —1922. *Calliostoma unicum* (DUNKER) var. *shinagawensis* [-e] TOKUNAGA: YOKOYAMA, Foss. Kazusa Shimosa, pp. 112-113, pl. V, fig. 25.
- Fossil occurrence.—Naganuma and Ôtake. Ecology.—P 22-41, J -42. N<sub>1-2</sub>. mS.
- Calliostoma (Tristichotrochus) shinagawaense cipangoanum* YOKOYAMA...Pl. 2, Fig. 9
1920. *Calliostoma cipangoanum* YOKOYAMA, Foss. Miura [etc.], p. 93, pl. V, figs. 23a, b.
- Fossil occurrence.—Yokosuka. Ecology.—[P 26-35, J -37. N<sub>2-3</sub>. fS].

- Calliostoma (Tristichotrochus) aculeatum* SOWERBY (G. B. III) トゲエビス..Pl. 2, Fig. 3
1912. *Calliostoma aculeatum* SOWERBY (G.B. III), Ann. Mag. nat. Hist., ser. 8, vol. IX, no. 52, p. 473, text-fig. 3. —1922. *Trochus spinigera* [-ger] YOKOYAMA, Foss. Kazusa [etc.], p. 109, pl. V, fig. 18.
- Fossil occurrence.—Shitô. Ecology.—P 32-35, J -37. N<sub>4</sub>. S.

## Subfamilia Gibbulinae

Genus *Enida* ADAMS (A.), 1860

- Enida japonica* ADAMS (A.) ハゲルマシタダミ .....Pl. 2, Figs. 2, 6
1860. *Enida japonica* ADAMS (A.), Ann. Mag. nat. Hist., ser. 3, vol. V, no. 29, pp. 408-409. —1920. *Chlorostoma miyatense* YOKOYAMA, Foss. Miura [etc.], pp. 87-88, pl. V, figs. 33a-c.



—1927. *Enida japonica* A. ADAMS: YOKOYAMA, Moll. Tokyo [etc.], p. 426, pl. XLVIII, fig. 1.

Fossil occurrence.—Shimo-Miyata and Shinagawa. Ecology.—P 33-35, J-37. N<sub>3-4</sub>. S.

### Subfamilia Monodontinae

#### Genus *Monodonta* LAMARCK, 1799

##### Subgenus *Monodonta* s. str.

*Monodonta (Monodonta) (labio* LINNAEUS subsp.?) *trochiformis* GRABAU & KING

イシダタミ .....Pl. 1, Fig. 23

[? 1861. *Monodonta glabratum* [-a] GOULD, Proc. Boston Soc. nat. Hist., vol. VIII, p. 20].—  
[?1862. *Monodonta glabratum* [-a] GOULD: GOULD, Otia Conch., p. 159].—1924. *Monodonta labio* (LINNÉ): YOKOYAMA, Moll. Coral-Bed, p. 34, pl. II, fig. 8.—1928. *Monodonta trochiformis* GRABAU and KING, Shells of Peitaiho, p. 238, pl. XI, fig. 119.

Fossil occurrence.—Kô-yatsu. Ecology.—P 0?-41, J -41. N<sub>0</sub>. R, gR.

#### Genus *Cantharidus* MONTFORT, 1810

##### Subgenus *Cantharidus* s. str.

*Cantharidus (Cantharidus) callichrous* (PHILIPPI) ハナチグサ .....Pl. 1, Fig. 18

1849. *Trochus callichrous* PHILIPPI, Zeitschr. f. Malakoz., Jahrg. 1849, Nr. 10, pp. 149-150.—  
1855. *Trochus callichrous* PHILIPPI: PHILIPPI in MARTINI *et al.*, Syst. Conch.-Cab., N.F.,  
Bd. II, Abt. 3, p. 298, pl. 43, fig. 15.—1920. *Cantharidus japonicus* A. ADAMS: YOKO-  
YAMA, Foss. Miura [etc.], p. 89, pl. V, figs. 26a, b.

Fossil occurrence.—Ôtsu. Ecology.—P 33-35, J -41. N<sub>0-1</sub>. R.

*Tegula (Chlorostoma) rustica* (GMELIN) コシタカガンガラ .....Pl. 3, Fig. 1

1791. *Trochus rusticus* GMELIN, Syst. Nat., ed. XIII, Tom. I, pars VI, p. 3572.—1920. *Chloro-  
stoma tokunagai* YOKOYAMA, Foss. Miura [etc.], pp. 88-89, pl. V, figs. 25a-d.

Fossil occurrence.—Yokosuka. Ecology.—P 24-51, J -43. N<sub>0-1</sub>. R, gR.

#### Genus *Tegula* LESSON, 1832

##### Subgenus *Chlorostoma* SWAINSON, 1840

*Tegula (Chlorostoma) pfeifferi* (PHILIPPI) バテイラ .....Pl. 3, Fig. 3

1846. *Trochus Pfeifferi* PHILIPPI, Zeitschr. f. Malakoz., 1846 (Jul.), p. 104.—1851. *Trochus Pfeifferi* PH.: PHILIPPI in MARTINI *et al.*, Syst. Conch.-Cab., N.F., Bd. II, Abt. 3, pp. 152-153, pl. 25, fig. 2.—1920. *Chlorostoma quantoanum* YOKOYAMA, Foss. Miura [etc.], p. 88, pl. V, figs. 24a-d.

Fossil occurrence.—Yokosuka. Ecology.—P 31-42. N<sub>0-1</sub>. R.

### Subfamilia Trochinae

#### Genus *Clanculus* MONTFORT, 1810

##### Subgenus *Clanculus* s. str.

*Clanculus (Clanculus) margaritarius* (PHILIPPI) ナツモモ .....Pl. 2, Fig. 7

1846. *Monodonta margaritaria* PHILIPPI, Zeitschr. f. Malakoz., Jahrg. 1846, Juli, pp. 100-101.  
 —1849. *Trochus margaritarius* PHILIPPI: PHILIPPI in MARTINI *et al.*, Syst. Conch.-Cab.,  
 N.F., Bd. II, Abt. 3, pp. 73-74, pl. 14, figs. 4, 4a.—1924. *Trochus (Clanculus) gordonis*  
 YOKOYAMA, Moll. Coral-Bed, pp. 33-34, pl. II, figs. 4, 4a.  
 Fossil occurrence.—Numa. Ecology.—P 22-35. N<sub>1</sub>. R.

Subgenus *Euclanculus* PHILIPPI, 1847

*Clanculus (Euclanculus) microdon ater* PILSBRY

クロナツモモ (クロマキアゲエビス) .....Pl. 3, Fig. i5

1901. *Clanculus microdon* var. *ater* PILSBRY, Proc. Acad. nat. Sci. Philadelphia, 1901, pt. of  
 March, pp. 200-201.—1924. *Trochus (Clanculus) atropurpureus* (GOULD): YOKOYAMA,  
 Moll. Coral-Bed, p. 33, pl. II, fig. 5.  
 Fossil occurrence.—Numa. Ecology.—P 33-35, J -37. N<sub>0-1</sub>. gR.

Subfamilia Umboniinae

Genus *Microgaza* DALL, 1881

*Microgaza planorboides* (YOKOYAMA) ヒラマキシタタミ .....Pl. 3, Fig. 11

1922. *Skenea planorboides* YOKOYAMA, Foss. Kazusa Shimosa, pp. 81-82, pl. IV, fig. 8.  
 Fossil occurrence.—Shitô (Takata).

Genus *Lirularia* DALL, 1909

Subgenus *Conotalopia* IREDALE, 1929

*Lirularia (Conotalopia) sematensis* (OYAMA) トウダカシタタミ .....Pl. 2, Fig. 4

1922. *Solariella philippensis* WATSON: YOKOYAMA, Foss. Kazusa Shimosa, pp. 110-111, pl. V,  
 fig. 21.—1943. *Minolia (Conotalopia) sematensis* OYAMA, Japan. Jour. Malac. [Venus],  
 vol. 13, nos. 1-4, p. 122, new name for *Solariella philippensis* WATSON sensu YOKOYAMA.  
 Fossil occurrence.—Ôtake. Ecology.—Uncertain.  
 Remark.—A manuscript in which I was going to propose this species was destroyed in the  
 war time. When my later paper (1943) on *Solariella* was published, the name of this species  
 became valid and the type-locality became Ôtake instead of Semata, a part of Shitô by  
 YOKOYAMA.

Subgenus *Lirularia* s. str.

*Lirularia (Lirularia) pygmaea* (YOKOYAMA) ヒノデシタタミ .....Pl. 2, Fig. 11

1922. *Leptothyra pygmaea* YOKOYAMA, Foss. Kazusa Shimosa, p. 108, pl. V, fig. 17.  
 Fossil occurrence.—Tega. Ecology.—P 34-38. N<sub>1</sub>. R.

Genus *Suchium* MAKIYAMA, 1924

*Suchium giganteum* (LESSON) ダンベイキサゴ .....Pl. 3, Fig. 16

1833. *Rotella gigantea* LESSON, Illustr. de Zool., (6) pl. 17, (fide SHERBORN, 1926).—1838.  
*Rotella gigantea* LESSON: KIENER, Icon. Coq. viv., Tom. X, Roulette (*Rotella*), p. 6, pl.  
 3, fig. 7.—1920. *Umbonium giganteum* LESSON: YOKOYAMA, Foss. Miura [etc.], pp.  
 94-95, pl. VI, fig. 5.—1930. *Umbonium giganteum naganumanum* OTUKA, Jour. Geol.

Soc. Tokyo, vol. XXXVII, no. 444, pp. 25-26, text-figs. 1a-c.

Fossil occurrence.—Naganuma. Ecology.—P 31-36, J -41. N<sub>1</sub>. S. Open sea coasts.

*Suchium costatum* (KIENER) キサゴ .....Pl. 3, Figs. 18, ?19

1838-39. *Rotella costata* VALENCIENNES: KIENER, Icon. Coq. viv., vol. X, Roulette (*Rotella*), p. 10, pl. II, fig. 5.—1920. *Umbonium costatum* VALENCIENNES: YOKOYAMA, Foss. Miura [etc.], p. 95, pl. VI, fig. 6.—? 1927. *Monilea ojiensis* YOKOYAMA, Moll. Tokyo [etc.], p. 426, pl. XLVII, fig. 27.

Fossil occurrence.—Naganuma, (?) Ôji. Ecology.—P 31-35, J -37. N<sub>1</sub>. S.

Remark.—*Monilea ojiensis* YOKOYAMA is probably a young specimen of *Suchium costatum*, because very young specimens of *Suchium* has widely opened umbilicus. As callous pads develop with age, the umbilicus becomes narrower and is perfectly filled up in the adult stage.

### Familia Skeneidae

Genus *Lissotesta* LASERON, 1954

*Lissotesta sobrina* (ADAMS (A.)) イトコシダタミ .....Pl. 3, Figs. 4, 5

1861. *Ethalia sobrina* ADAMS (A.), Ann. Mag. nat. Hist., ser. 3, vol. VIII, no. 46, p. 306.—1920. *Skenea nipponica* YOKOYAMA, Foss. Miura [etc.], p. 75, pl. V, figs. 1a-c.—1922. *Skenea nipponica* YOKOYAMA, Foss. Kazusa Shimosa, p. 81, pl. IV, fig. 7.—1954. *Starkeyna sobrina* (A. ADAMS): TAKI & OYAMA, Plioc. & later Faunas, p. 5, pl. 6, fig. 1: pl. 24, fig. 7.—1961. *Lissotesta sobrina* (A. ADAMS): HABA, Prof. MAKIYAMA Mem. Vol., p. 195, pl. 2, figs. 1, 2.

Fossil occurrence.—Ôtsu and Tega. Ecology.—P 33-35, J -36.

### Familia Turbinidae

Subfamilia Liotiinae

Genus *Homalopoma* CARPENTER, 1864

*Homalopoma sangarensis* (SCHRENCK) ヤマザンショウ .....Pl. 3, Fig. 8

1861. *Turbo sangarensis* SCHRENCK, Bull. Acad. Imp. Sci. St.-Petersburg. Tom. IV, p. 409 (fide SCHRENCK, 1867).—1867. *Turbo sangarensis* SCHRENCK: SCHRENCK, Reis. u. Forsch. Amur. Lande, Bd. II, pp. 363-365, pl. XVI, figs. 6-11.—1920. *Leptothyra amussitata* GOULD: YOKOYAMA, Foss. Miura [etc.], pp. 85-86, pl. V, figs. 21a-b.

Fossil occurrence.—Shimo-Miyata. Ecology.—P 38-42, J 35-43.

*Homalopoma amussitatum* (GOULD) エゾサンショウガヒ .....Pl. 3, Fig. 6

1861. *Turbo amussitatus* GOULD, Proc. Boston Soc. nat. Hist., vol. VIII, p. 22.—1862. *Turbo amussitatus* GOULD: GOULD, Otia conch., p. 160.—1920. *Leptothyra purpurascens* DUNKER: YOKOYAMA, Foss. Miura [etc.], p. 86, pl. V, figs. 22a-b.—1964. *Turbo amussitatus* GOULD: JOHNSON, U.S. nat. Mus., Bull. 239, p. 40, pl. 17, fig. 3 (lectotype).

Fossil occurrence.—Shimo-Miyata. Ecology.—P 38-51, J 36-46.

### Subfamily Bothropomatinae

Genus *Neocollonia* KURODA & HABA, 1954

*Neocollonia pilula* (DUNKER) サンショウウスガヒ .....Pl. 2, Fig. 15

1860. *Liotia pilula* DUNKER, Malacoz. Bl., Bd. VI (1859), p. 227.—1861. *Liotia pilula* DKR.: DUNKER, Moll. Japon, p. 19, pl. III, fig. 7.—1924. *Leptothyra pilula* (DUNKER): YOKOYAMA, Moll. Coral-Bed, pp. 32-33, pl. V, fig. 20.  
Fossil occurrence.—Numa. Ecology.—P -?0, 29-38, J -37. N<sub>1</sub>. R.

## Subfamilia Turbininae

Genus *Lunella* RÖDING, 1798

*Lunella coronata coreensis* (RÉCLUZ) スガイ .....Pl. 3. Figs. 10, 12, 13

1853. *Turbo Coreensis* RÉCLUZ, Jour. Conchyliol., Tom. IV, pp. 245-246, pl. VIII, fig. 2.—1920. *Turbo* (*Marmorostoma*) *coreensis* RÉCLUZ: YOKOYAMA, Foss. Miura [etc.], pp. 84-85, pl. V, figs. 19a, b, 20a-c.—1922. *Turbo* (*Marmorostoma*) *granulatus* GMELIN: YOKOYAMA, Foss. Kazusa Shimosa, p. 107, pl. V, fig. 10.  
Fossil occurrence.—Yokosuka and Shitô. Ecology.—P 31-41, J -41. N<sub>0</sub>. R.

Genus *Turbo* LINNAEUS, 1758Subgenus *Batillus* SCHUMACHER, 1817

*Turbo* (*Batillus*) *cornutus* (SOLANDER in LIGHTFOOT) サザエ .....Pl. 1. Fig. 25

1786. *Turbo cornutus* SOLANDER in LIGHTFOOT, Catal. Portland Mus., p. 147 (fide SCHERBORN, 1925).—1924. *Turbo* (*Batillus*) *cornutus* GMELIN: YOKOYAMA, Moll. Coral-Bed, p. 31, pl. I, fig. 22.  
Fossil occurrence.—Numa. Ecology.—P 26-35, J -41. N<sub>0-2</sub>. R.

*Turbo* "*crassiliratus* (YOKOYAMA)" .....Pl. 3, Fig. 7

1922. *Leptothyra crassilirata* YOKOYAMA, Foss. Kazusa Shimosa, pp. 108-109, pl. V, fig. 22.  
Fossil occurrence.—Tega. Ecology.—Unknown.  
Remark.—The lectotype, the illustrated specimen, was lost. A paralectotype specimen is a young specimen belonging to *Turbo* and has fresh appearance like a remain on sea shores. It is not impossible that the true locality of the paralectotype is not Tega, but somewhere on sea shore of southern Kantô area. Also the illustration of the lectotype indicates coloration, and the occurrence from this locality is similarly doubtful.

## Subfamilia Astraeinae

Genus *Astrarium* LINK, 1807

*Astrarium haematragum* (MENKE) ウラウズガヒ .....Pl. 2. Fig. 10

1829. *Trochus haematragus* MENKE, Conch.-Samml. Malsburg, p. 18.—1924. *Astrarium* (*Cyclo-cantha*) *haematragus* (MENKE): YOKOYAMA, Moll. Coral-Bed, p. 32, pl. II, fig. 7.  
Fossil occurrence.—Kôyatsu. Ecology.—P 23-35, J -40. N<sub>0-1</sub>. R.

## Superfamilia Neritacea

## Familia Neritidae

Genus *Nerita* LINNAEUS, 1758Subgenus *Theliostyla* MÖRCH, 1852

*Nerita* (*Theliostyla*) *albicilla* LINNAEUS アマオブネ .....Pl. 8, Fig. 1

1758. *Nerita albicilla* LINNAEUS, Syst. nat., ed. 10, Tom. I, p. 778.—1924. *Nerita albicilla* LINNÉ: YOKOYAMA, Moll. Coral-Bed, p. 31, pl. II, fig. 6.

Fossil occurrence.—Kôyatsu. Ecology.—P -0-35. N<sub>0</sub>. R. On rock surface of lower tidal zone.

Superfamilia Cocculinacea

Familia Cocculinidae

Genus *Cocculina* DALL. 1881

*Cocculina kuragiensis* (YOKOYAMA).....Pl. 1, Fig. 9

1920. *Acmaea kuragiensis* YOKOYAMA, Foss. Miura [etc.], p. 100, pl. VI, figs. 9a, b.  
Fossil occurrence.—Koshihira.

*Cocculina? nojimensis* (YOKOYAMA).....Pl. 1, Fig. 7

1920. *Acmaea nojimensis* YOKOYAMA, Foss. Miura [etc.], p. 100, pl. VI, figs. 11a, b.  
Fossil occurrence.—Nojima.

Ordo Caenogastropoda

Superfamilia Cyclophoracea

Familia Cyclophoridae

Genus *Chamalycaeus* KOBELT & MÖLLENDORFF, 1897

*Chamalycaeus melanopoma* (PILSBRY) ムシオイガイ .....Pl. 7, Fig. 8

1900. *Alycaeus melanopoma* PILSBRY, Proc. Acad. Nat. Sci. Philadelphia, 1900, p. 382.—1927.  
*Cyclostrema lamellata* [-um] YOKOYAMA, Moll. Tokyo [etc.], p. 426, pl. XLVIII, fig. 5.  
Occurrence.—Ôji.

Remark.—This is a land shell. YOKOYAMA's specimen must not be a fossil, but is merely a remain of living snail which is to be omitted from a fauna of "the Upper Musashino Formation".

Familia Viviparidae

Genus *Viviparus* MONTFORT, 1810

Subgenus *Cipangopaludina* HANNIBAL. 1912

*Viviparus (Cipangopaludina) japonicus* (v. MARTENS) オオタニシ .....Pl. 7, Fig. 3

1860. *Paludina japonica* v. MARTENS, Malacoz. Bl., Bd. VII, pp. 44-45.—1906. *Vivipara japonica* MARTENS: KOBELT in MARTINI *et al.*, Syst. Conch.-Cab., N. F., Bd. I, Abt. 21, pp. 99-100, pl. XV, figs. 1-4.—1922. *Basilissa? laeviuscula* YOKOYAMA, Foss. Kazusa Shimosa, p. 113, pl. V, fig. 24.

Occurrence.—Shitô.

Remark.—YOKOYAMA's specimen is a larval shell of Japanese pond shell. It may not be a Pleistocene fossil, but a remain from a stream near that locality.

Superfamilia Littorinacea

Familia Littorinidae

Genus *Littorina* FÉRUSAC. 1822

*Littorina brevicula* (PHILIPPI) タマキビ .....Pl. 1, Fig. 16

1844. *Turbo (Litorina) breviculus* PHILIPPI, Zeitschr. f. Malakoz., Jahrg. 1844 (Nov.), p. 166.  
 —1847. *Litorina brevicula* PH.: PHILIPPI, Abb. u. Besch. Conchyl., Bd. II, H. VI, pp. 161-162, pl. III, fig. 10.—1920. *Leptothyra* cf. *paucicostata* DALL: YOKOYAMA, Foss. Miura [etc.], pp. 86-87, pl. V, figs. 15a-b.  
 Fossil occurrence.—Ôtsu. Ecology.—P 26-42, J -42, K 30-40. N<sub>0+</sub>. R. Rock surface of spray zone.

Genus *Littorinopsis* MÖRCH, 1876  
 (?*Littoraria* GRIFFITH & PIDGON, 1834)

- Littorinopsis strigata* (LISCHKE) マルウズラタマキビ.....Pl. 4, Fig. 1  
 1871. *Litorina strigata* LISCHKE, Mal. Bl., Bd. XVIII (Aug.), pp. 148-149.—1972. *Litorina strigata* LISCHKE, Japan. Meer.-Conchyl., T. 2, p. 73, pl. V, fig. 22.—1927. *Littorina adonis* YOKOYAMA, Moll. westn. Shimosu [etc.], p. 451, pl. LI, fig. 8.  
 Fossil occurrence.—Koyasu. Ecology.—P 33.

Superfamilia Rissoacea  
 Familia Hydrobiidae  
 Genus *Sinusicola* KURODA & HABE, 1950

- Sinusicola yendoi* (YOKOYAMA) .....Pl. 4, Fig. 6  
 1927. *Rissoina yendoi* YOKOYAMA, Moll. Tokyo [etc.], p. 415, pl. XLVI, fig. 27.  
 Fossil occurrence.—Kuruma-chô. Ecology.—P 34.  
*Sinusicola fliola* (YOKOYAMA) .....Pl. 4, Fig. 5  
 1927. *Turbonilla (Caleriopsis) fliola* YOKOYAMA, Moll. westn. Shimosu [etc.], pp. 453-454, pl. LI, fig. 16.  
 Fossil occurrence.—Koyasu. Ecology.—P 34-, J -37.

Familia Stenothyridae  
 Genus *Stenothyra* BENSON, 1856

- Stenothyra edogawaensis* (YOKOYAMA) ミズゴマツボ .....Pl. 4, Fig. 4  
 1927. *Rissoa (Amphithalamus) edogawaensis* YOKOYAMA, Moll. westn. Shimosu [etc.], p. 452, pl. LI, fig. 13.  
 Occurrence.—Ichikawa. Ecology.—P 34-38. J -36.  
 Remark.—I doubt if this species was actually found from the "Ichikawa Shell Bed", because it is not impossible to consider that this species lived in a brackish-water facies on an outcrop of the Ichikawa Shell Bed.

Familia Rissoidae  
 Genus *Putilla* ADAMS (A.), 1867

- Putilla paludinoides* (YOKOYAMA) タニシツボ.....Pl. 4, Fig. 2  
 1927. *Rissoa (Cingula) paludinoides* YOKOYAMA, Moll. Tokyo [etc.], p. 415, pl. XLVI, fig. 23.  
 Fossil occurrence.—Dôkanyama. Ecology.—P 33.

Genus *Rissoalaba* OYAMA in TAKI & OYAMA, 1954

*Rissoalaba plebeja* (YOKOYAMA) リソウネツボ .....Pl. 4, Fig. 21

1922. *Rissoa* (*Cingula*) *plebeja* YOKOYAMA, Foss. Kazusa Shimosa, p. 79, pl. IV, fig. 3.  
Fossil occurrence.—Shitô. Ecology.—Unknown.

Genus *Alvania* RISSO, 1826

*Alvania concinna* ADAMS (A.) タマツボ .....Pl. 4, Fig. 13

1861. *Alvania concinna* ADAMS (A.), Ann. Mag. nat. Hist., ser. 3, vol. VIII, no. 44, p. 138.—  
1924. *Rissoa* (*Alvania*) *concinna* A. ADAMS: YOKOYAMA, Moll. Coral-Bed, pp. 25-26, pl.  
V, fig. 11.

Fossil occurrence.—Numa. Ecology.—P 6?-42, J -37.

Genus *Merelina* IREDALE, 1915

*Merelina tokunagai* (YOKOYAMA) トクナガツボ .....Pl. 4, Fig. 15

1927. *Fenella tokunagai* YOKOYAMA, Moll. Tokyo [etc.], p. 416, pl. XLVI, fig. 25.

Fossil occurrence.—Tabata. Ecology.—Unknown.

Genus *Rissoina* ORBIGNY, 1840Subgenus *Phosinella* MÖRCH, 1876

*Rissoina* (*Phosinella*) *pura* (GOULD) ヌノメチ ヨウジガヒ .....Pl. 4, Fig. 14

1861. *Alvania pura* GOULD, Proc. Boston Soc. Nat. Hist., vol. VII, p. 402.—1962. *Alvania pura* GOULD, Otia conch., p. 146.—1915. *Rissoina* (*Phosinella*) *pura* GOULD: BARTSCH, U.S. Nat. Mus., Bull. 91, pp. 131-132, pl. 5, fig. 10.—1924. *Rissoina* (*Phosinella*) *cancellata* PHILIPPI var. *awana* YOKOYAMA, Moll. Coral-Bed, pp. 26-27, pl. V, fig. 10.

Fossil occurrence.—Numa. Ecology.—P 0-35, J -37. N<sub>1</sub>. R.

Subgenus *Rissolina* GOULD, 1861

*Rissoina* (*Rissolina*) *laevicostulata* PILSBRY スジウネリチ ヨウジガイ .....Pl. 4, Fig. 7

[? 1860. *Rissoina costulata* DUNKER, Malakoz. Bl., Bd. VI, pp. 235-236.]—[? 1861. *Rissoina costulata* DKR.: DUNKER, Moll. Japon., p. 12, pl. II, fig. 11.]—1904. *Rissoina* (*Rissolina*) *laevicostulata* PILSBRY, Proc. Acad. Nat. Sci. Philadelphia, 1904, [pt. of Jan.], pp. 27-28, pl. V, figs. 44, 44a.—1920. *Rissoina submerculialis* YOKOYAMA, Foss. Miura [etc.], p. 73, pl. IV, figs. 15a, b.

Fossil occurrence.—Yokosuka. Ecology.—P 23-35, J -41. N<sub>1</sub>. R.

Subgenus *Rissoinella* OYAMA in TAKI & OYAMA, 1954

*Rissoina* (*Rissoinella*) *zeltenerioides* YOKOYAMA ハスメチ ヨウジガイ .....Pl. 4, Fig. 12

[? 1881. *Rissoina Adamsiana* WEINKAUFF in MARTINI *et al.*, Syst. Conch.-Cab., p. 67, pl. 15a, fig. 4.]—1920. *Rissoina zeltenerioides* YOKOYAMA, Foss. Miura [etc.], pp. 73-74, pl. IV, figs. 20a, b.

Fossil occurrence.—Yokosuka. Ecology.—P 33-35. N<sub>1</sub>. R.

Remark.—This species has often been considered to be junior synonym of *R. adamsiana* WEINKAUFF.

Familia Assimineidae

Genus *Assiminea* FLEMING, 1828

Subgenus *Assiminea* s. str.

*Assiminea* (*Assiminea*) *japonica* v. MARTENS カワザンシヨウガイ .....Pl. 4, Fig. 3

1877. *Assiminea japonica* v. MARTENS, SB. Ges. nat. Fr. Berlin, 1877, p. 116.—1927. *Littorina lucida* YOKOYAMA, Moll. westn. Shimosa [etc.], p. 451, pl. LI, fig. 9.

Fossil occurrence.—Koyasu. Ecology.—P 31-39, J -37. N<sub>0</sub>. S, mS, sM. On muddy sand or mud surface of upper tidal zone of brackish water area.

Familia Tornidae

Genus *Moerchinella* THIELE, 1925

*Moerchinella stilicidiata* (YOKOYAMA) .....Pl. 3, Fig. 14

1922. *Cyclostrema stilicidiatum* YOKOYAMA, Foss. Kazusa Shimosa, pp. 114-115, pl. V, fig. 26. Fossil occurrence.—Shitô. Ecology.—Unknown.

Genus *Pygmaerota* KURODA & HABE, 1954

*Pygmaerota duplicata* (LISCHKE) ウズマキガイ .....Pl. 3, Fig. 9

1872. *Cyclostrema duplicatum* LISCHKE, Malacoz. Bl., Bd. XIX, pp. 101-102.—1874. *Cyclostrema duplicatum* LISCHKE: LISCHKE, Japan. Meer.-Conch., Bd. III, pp. 61-62, pl. III, figs. 9, 10. —1920. *Cyclostrema duplicatum* LISCHKE: YOKOYAMA, Foss. Miura [etc.], pp. 95-96, pl. VI, figs. 8a-c.

Fossil occurrence.—Naganuma. Ecology.—P 33-39, J -41. N<sub>0</sub>. R.

Genus *Daronia* ADAMS (A.), 1861

*Daronia yokoyamai* nom. nov. ....Pl. 3, Fig. 2

1922. *Minolia tasmanica* TENISON-WOODS: YOKOYAMA, Foss. Kazusa Shimosa, pp. 109-110, pl. V, fig. 19.

Fossil occurrence.—Ôtake. Ecology.—Unknown.

Superfamilia Cerithiacea

Familia Turritellidae

Genus *Turritella* LAMARCK, 1799

Subgenus *Neohaustator* IDA, 1952

*Turritella* (*Neohaustator*) *nipponica nipponica* YOKOYAMA

ホソエゾキリガイダマシ .....Pl. 4, Fig. 8

1920. *Turritella nipponica* YOKOYAMA (ex parte), Foss. Miura [etc.], pp. 71-72, pl. IV, fig. 16 (not figs. 17-19).

Fossil occurrence.—Koshiba. Ecology.—P 39, J -41. N<sub>4</sub>.



*Turritella (Neohaustator) nipponica nojimaensis* IDA .....Pl. 4, Figs. 9, 10

1920. *Turritella nipponica* YOKOYAMA (ex parte), Foss. Miura (etc.), pp. 70-71, pl. IV, figs. 17, 18 (not figs. 16, 19).—1952. *Turritella (Neohaustator) nipponica nojimensis* IDA, Geol. Surv. Japan, Rep. 150, p. 48, pl. 5, figs. 12, 13.

Fossil occurrence.—Nojima and Kanazawa. Ecology.—Unknown.

*Turritella (Neohaustator) nipponica miyata* IDA

ミヤタホソキリガイダマシ.....Pl. 4, Fig. 11

1920. *Turritella nipponica* YOKOYAMA (ex parte), Foss. Miura [etc.], pp. 70-71, pl. IV, fig. 19 (not 16-18).—1952. *Turritella (Neohaustator) nipponica miyata* IDA, Geol. Surv. Japan, Rep. 150, p. 49, pl. 2, fig. 1; pl. 3, fig. 1; pl. 5, fig. 5.

Fossil occurrence.—Kami-Miyata. Ecology.—Unknown.

#### Familia Vermetidae

Genus *Petaloconchus* LEA, 1843

Subgenus *Macrophragma* CARPENTER, 1857

*Petaloconchus (Macrophragma?) annulatus* (YOKOYAMA) .....Pl. 4, Fig. 17

1924. *Vermetus annulatus* YOKOYAMA, Moll. Coral-Bed, p. 25, pl. II, fig. 2.

Fossil occurrence.—Numa. Ecology.—P 34. N<sub>1</sub>. R.

Remark.—KURODA and HABE, 1952, Check List, p. 96, and KURODA, 1954, Venus, vol. 18, no. 2, p. 42, placed this species under "*Spiroglyphus* DAUDIN, 1800", auct. [= *Dendropoma* MÖRCH, 1861], but it belongs to a group of *P. (M.?) renisectus* (CARPENTER). Living specimens are rarely found from shallow seas around Izu Peninsula.

#### Genus *Serpulorbis* SASSO, 1827

*Serpulorbis medusae* (PILSBRY) リュウオウヘビガイ .....Pl. 4, Fig. 19

1892. *Thylacodes medusae* PILSBRY, Proc. Acad. Nat. Sci. Philadelphia, 1891, pp. 471-472, pls. XVII, XVIII.—1895. *Thylacodes medusae* PILSBRY: PILSBRY, Catal. Mar. Moll. Japan, pp. 59-60, pls. IV, V.—1920. *Thylacodes medusae* PILSBRY, YOKOYAMA, Foss. Miura [etc.], p. 71, pl. IV, fig. 7.

Fossil occurrence.—Shimo-Miyata. Ecology.—P 35. N<sub>3</sub>. R, cS.

*Serpulorbis imbricatus* (DUNKER) オオヘビガイ .....Pl. 4, Fig. 26

1860. *Vermetus imbricatus* DUNKER, Malacoz. Bl., Bd. VI (1859), p. 240.—1861. *Vermetus imbricatus* DKR.: DUNKER, Moll. Japon., pp. 17-18, pl. II, fig. 18.—1922. *Thylacodes medusae* PILSBRY: YOKOYAMA, Foss. Kazusa Shimosa, pp. 74-75, pl. III, fig. 17.

Fossil occurrence.—Ôtake. Ecology.—P 30-39, J -43. N<sub>0-1</sub>. R, gR.

#### Familia Caecidae

Genus *Caecum* FLEMING, 1817

Subgenus *Brochina* GRAY, 1857

*Caecum (Brochina) glabellum* (ADAMS (A.)) ミジンツツガイ .....Pl. 20, Fig. 20

1868. *Brochina* (? var.) *glabella* ADAMS (A.), Ann. Mag. nat. Hist., ser. 4, vol. II, no. 11, p. 365.—1922. *Caecum vitreum* CARPENTER: YOKOYAMA, Foss. Kazusa Shimosa, p. 76, pl. III, fig. 18.

Fossil occurrence.—Shitô. Ecology.—P 33-34, J -36.

### Familia Thiaridae

#### Genus *Semisulcospira* BÖTTGER, 1866

- Semisulcospira libertina hidachiensis* (PILSBRY) ヒダチチリメンカワニナ...Pl. 4, Fig. 16

1902. *Melania reiniana* var. *hidachiensis* PILSBRY, Proc. Acad. Nat. Sci. Philadelphia, 1902, pp. 119-120, pl. IX, fig. 2.—1922. *Melania niponica* SMITH: YOKOYAMA, Foss. Kazusa Shimosa, pp. 76-77, pl. IV, fig. 1.

Fossil occurrence.—Ôtake.

### Familia Potamididae

#### Genus *Cerithideopsis* THIELE, 1929

##### Subgenus *Cerithideopsilla* THIELE, 1929

- Cerithideopsis* (*Cerithideopsilla*) *djadjariensis* (MARTIN (K.)) カワアイ....Pl. 5, Fig. 24

1899. *Potamides* (*Cerithidea*) *djadjariensis* MARTIN (K.), Foss. v. Java, Bd. 1, pp. 216-217, pl. XXXIII, figs. 502, 502a.—1920. *Potamides* (*Tympanotonos*) *fluviatilis* POTIEZ et MICHAUD: YOKOYAMA, Foss. Miura [etc.], pp. 68-69, pl. IV, figs. 14a, b.

Fossil occurrence.—Ôtsu. Ecology.—P -0-39, J -37. N<sub>0</sub>. sG, mS. Tidal zone of interior of bay or mouth of stream indicating strong embayment degree.

#### Genus *Batillaria* BENSON, 1842

- Batillaria multiformis* (LISCHKE) ウミニナ.....Pl. 5, Fig. 20

1869. *Lampania multiformis* LISCHKE, Japan. Meer.-Conch., Bd. 1, pp. 74-75, pl. VI, figs. 1-10. —1868. *Lampania multiformis* LKE.: LISCHKE, Malacoz. Bl., Bd. XVI, IV, p. 106.—1920. *Potamides* (*Batillaria*) *multiformis* LISCHKE: YOKOYAMA, Foss. Miura [etc.], p. 69, pl. IV, figs. 9a, b.

Fossil occurrence.—Ôtsu. Ecology.—P 14-46, J -46. N<sub>0</sub>. R, S, mS.

- Batillaria zonalis* (BRUGUIÈRE) イボウミニナ.....Pl. 5, Fig. 16

1792. *Cerithium zonale* BRUGUIÈRE, Ency. Mèth. (Vers) (2) p. 497 (fide SHERBORN, 1902)—1924. *Potamides* (*Batillaria*) *zonalis* BRUGUIÈRE: YOKOYAMA, Moll. Coral-Bed, pp. 20-21, pl. V, fig. 18.

Fossil occurrence.—Kôyatsu. Ecology.—P -0-41, J -37. N<sub>0</sub>. R, S, mS.

### Familia Diastomatidae

#### Genus *Eufenella* KURODA & HABE, 1954

- Eufenella pupoides* ADAMS (A.) モツボ.....Pl. 5, Figs. 2, 3

1860. *Fenella pupoides* ADAMS (A.), Ann. Mag. nat. Hist., ser. 3, vol. VI, no. 35, p. 336.—1927. *Fenella perpupoides* YOKOYAMA, Moll. westn. Shimosa [etc.], p. 452, pl. LI, figs. 11, 12.

Fossil occurrence.—Koyasu and Shimo-Sueyoshi. Ecology.—P -0?-36, J -37. N<sub>1</sub>. A1.

Remark.—MAKIYAMA, 1929, in his revision of A. ADAMS' type specimens, pointed out the fact that *Fenella perupoides* YOKOYAMA agrees with type specimens of *F. pupoides* A. AD.

*Eufenella pupoides* (ADAMS (A.)) var. サナギモツボ.....Pl. 5, Fig. 4

1924. *Fenella pupoides* ADAMS (A.), YOKOYAMA, Moll. Coral-Bed, p. 27, pl. V, fig. 9.

Fossil occurrence.—Numa. Ecology.—Unknown.

*Eufenella ichikawensis* (YOKOYAMA) イチカワモツボ .....Pl. 5, Fig. 1

1927. *Rissor ichikawensis* YOKOYAMA, Moll. westn. Shimosa [etc.], p. 451, pl. L1, fig. 5.

Fossil occurrence.—Ichikawa. Ecology.—P 34.

*Eufenella rufocincta* (ADAMS (A.)) シマモツボ .....Pl. 5, Figs. 5, 6

1861. *Dunkeria rufocincta* ADAMS (A.), Ann. Mag. nat. Hist., ser. 3, vol. VIII, no. 46, pp. 300-301.—1906. *Rissoa septentrionalis* TOKUNAGA, Foss. Env. Tokyo, p. 26, pl. I, fig. 55.—1922. *Fenella septentrionalis* TOKUNAGA: YOKOYAMA, Foss. Kazusa Shimosa, pp. 80-81, pl. IV, figs. 5, 6.

Fossil occurrence.—Ôtake and Tega. Ecology.—P 31-35, J -37. N<sub>1</sub>.

#### Genus *Clathrofenella* KURODA & HABE, 1954

*Clathrofenella reticulata* (ADAMS (A.)) オガサワラモツボ .....Pl. 5, Fig. 11

[? 1860. *Dunkeria asperulata* ADAMS (A.), Ann. Mag. nat. Hist., ser. 3, vol. VI, no. 32, pp. 119-120].—1860. *Dunkeria reticulata* ADAMS (A.), Ann. Mag. nat. Hist., ser. 3, vol. VI, no. 36, p. 422.—1920. *Fenella orientalis* YOKOYAMA, Foss. Miura [etc.], pp. 74-75, pl. IV, figs. 12a, b.—1961. *Clathrofenella reticulata* (A. ADAMS): HABE, Prof. MAKIYAMA, Mem. Vol., p. 197.

Fossil occurrence.—Yokosuka. Ecology.—P 27?-35, J -38.

*Clathrofenella reticulata longa* OYAMA ナガオガサワラモツボ .....Pl. 5, Fig. 7

1924. *Fenella orientalis* YOKOYAMA, Moll. Coral-Bed, p. 28, pl. I, fig. 26.—1954. *Clathrofenella reticulata longa* OYAMA in TAKI & OYAMA, Plioc. & later Faunas, p. 10, pl. 38, fig. 26, new name for *Fenella orientalis* YOKOYAMA, 1920, sensu YOKOYAMA, 1924.

Fossil occurrence.—Numa. Ecology.—P 35.

*Clathrofenella shinonis* (YOKOYAMA) シノモツボ .....Pl. 5, Fig. 8

[? 1860. *Dunkeria scabra* A. ADAMS, Ann. Mag. nat. Hist., ser. 3, vol. VI, no. 36, p. 42].—1924. *Fenella shinonis* YOKOYAMA, Moll. Coral-Bed, p. 28, pl. I, fig. 25.

Fossil occurrence.—Numa. Ecology.—[P33-34].

*Clathrofenella kenonis* (YOKOYAMA) ケノモツボ .....Pl. 5, Fig. 10

1924. *Fenella kenonis* YOKOYAMA, Moll. Coral-Bed, p. 29, pl. I, fig. 27.

Fossil occurrence.—Numa. Ecology.—P 35.

*Clathrofenella yamakawai* (YOKOYAMA) ヤマカワモツボ.....Pl. 5, Fig. 9

1924. *Fenella yamakawai* YOKOYAMA, Moll. Coral-Bed, pp. 27-28, pl. 1, fig. 24.

Fossil occurrence.—Numa. Ecology.—P 35.

#### Familia Cerithiidae

##### Genus *Diala* ADAMS (A.), 1861

*Diala varia* ADAMS (A.) スズメハマツボ .....Pl. 5, Figs. 12, 13

1861. *Diala varia* ADAMS (A.), Ann. Mag. nat. Hist., ser. 3, vol. VIII, no. XLV, p. 243.—  
1913. *Diala varia* A. ADAMS: HEDLEY, Proc. Linn. Soc. New South Wales, vol. XXXVIII,  
pt. 2, p. 286, pl. XVIII, fig. 56.—1924. *Litiopa (Diala) semistriata* PHILIPPI: YOKOYAMA,  
Moll. Coral-Bed, p. 25, pl. I, fig. 20.—1927. *Diala semistriata* PHILIPPI: YOKOYAMA,  
Moll. Tokyo [etc.], pp. 414-415, pl. XLVI, fig. 24.—1961. *Diala varia* A. ADAMS: HABE,  
Prof. MAKIYAMA, Mem. Vol., p. 198, pl. 3, fig. 15.

Fossil occurrence.—Numa (Holocene) and Dôkanyama. Ecology.—P 22-34, J -37. N<sub>1</sub>. R.

##### Genus *Difalaba* IREDALE, 1936

*Difalaba vitrea* (SOWERBY G. B. III) ハリハマツボ .....Pl. 5, Fig. 17

1915. *Diala vitrea* SOWERBY (B.G. III), Ann. Mag. nat. Hist., ser. 8, vol. XVI, no. 93, p. 167,  
pl. 10, fig. 8.—1927. *Litiopa simplex* YOKOYAMA, Moll. Tokyo [etc.], p. 414, pl. XLVI,  
fig. 26.

Fossil occurrence.—Dôkanyama. Ecology.—P 33-38, J -37. N<sub>1</sub>. sA1.

##### Genus *Bittium* GRAY, 1847

##### Subgenus *Stylidium* DALL & BARTSCH, 1907

*Bittium (Stylidium) yokosukense* OYAMA イトマキノミカニモリ .....Pl. 5, Fig. 15

1920. *Bittium perpusillum* TRYON: YOKOYAMA, Foss. Miura [etc.], pp. 67-68, pl. IV, figs. 13a-b.  
—1954. *Bittium yokosukense* OYAMA in TAKI & OYAMA, Plioc. & later Faunas, pp. 10,  
52, pl. 5, figs. 13a, b.

Fossil occurrence.—Yokosuka. Ecology.—P 35. N<sub>1-2</sub>. R.

##### Subgenus *Bittium* s. str.

*Bittium (Bittium) glareosum* GOULD ノミカニモリ .....Pl. 5, Fig. 23

1861. *Bittium glareosum* GOULD, Proc. Boston Soc. nat. Hist., vol. VII, p. 387.—1862. *Bittium glareosum* GOULD: GOULD, Otia conch., p. 142.—1860. *Cerithium pusillum* DUNKER, Malakoz. Bl., 1859 [Bd. 6], p. 224, non PFEIFFER, 1840, nec GOULD, 1849, nec JEFFREYS, 1856.—1861. *Bittium pusillum* DKR.: DUNKER, Moll. Japon., p. 11, pl. II, fig. 6.—1887. *Bittium perpusillum* TRYON, Man. Conch., vol. IX, pt. 35, p. 154, pl. 30, fig. 17, new name for *Cerithium pusillum* DUNKER, 1860, non PFEIFFER, 1840.—1924. *Cerithiopsis satomii* YOKOYAMA, Moll. Coral-Bed, p. 22, pl. I, fig. 23.—1944. *Bittium glareosum* GOULD: YEN, Proc. Calif. Acad. Sci., Ser. 4, vol. XXIII, no. 38, p. 569, pl. 59, fig. 5.—1962. *Bittium glareosum* GOULD: JOHNSON, U.S. nat. Mus., Bull. 239, p. 84, pl. 12, fig. 15.

Fossil occurrence.—Numa. Ecology.—P -0-34, J -37. N<sub>1</sub>. [R].

*Bittium (Bittium) binodulosum* YOKOYAMA ククリノミカニモリ .....Pl. 5, Fig. 19

1920. *Bittium binodulosum* YOKOYAMA, Foss. Miura [etc], p. 68, pl. IV, fig. 8. [Not *Bittium binodulosum* YOKOYAMA, sensu YOKOYAMA, 1926 & 1927]

Fossil occurrence.—Shimo-Miyata. Ecology.—Unknown.

*Bittium (Bittium) alutaceum numamuranum* YOKOYAMA

ダンダラノミカニモリ .....Pl. 5, Figs. 14, 18

[1861. *Bittium alutaceum* GOULD, Proc. Boston Soc. nat. Hist., vol. VII, p. 387].—[1862. *Bittium alutaceum* GOULD: GOULD, Otia conch., p. 142].—1925. *Bittium numamuranum* YOKOYAMA, Moll. Coral-Bed, p. 20, pl. I, fig. 13.—1924. *Cerithiopsis hilaris* YOKOYAMA, Id., p. 21, pl. I, fig. 8.

Fossil occurrence.—Numa. Ecology.—P -0-34, J -36 (?). N<sub>1</sub>. R.

#### Subgenus *Plesiotrochus* FISCHER (P.), 1878

*Bittium (Plesiotrochus) acutangulum* YOKOYAMA チグサカニモリ .....Pl. 5, Fig. 21

1924. *Bittium acutangulum* YOKOYAMA, Moll. Coral-Bed, pp. 19-20, pl. I, fig. 7.

Fossil occurrence.—Numa. Ecology.—P 26-34, J -36. N<sub>1</sub>. R.

#### Genus *Thericium* MONTEROSATO, 1890

*Thericium kobelti* (DUNKER) コオロギカニモリ .....Pl. 5, Fig. 22

1877. *Cerithium Kobelti* DUNKER, Malakoz. Bl., Bd. XXIV, p. 67.—1882. *Cerithium Kobelti* DKR.: DUNKER, Index Moll. Mar. Japon., pp. 106-107, pl. IV, figs. 8, 9.—1920. *Cerithium kobelti* DUNKER: YOKOYAMA, Foss. Miura [etc.], pp. 66-67, pl. IV, figs. 10a-b.

Fossil occurrence.—Ôtsu. Ecology.—P 26-35, J -41. N<sub>0</sub>. G, R, (S).

#### Genus *Rhinoclavis* SWAINSON, 1840

##### Subgenus *Ochetoclava* WOODRING, 1928

*Rhinoclavis (Ochetoclava) kochi* (PHILIPPI) カニモリガイ .....Pl. 5, Figs. 26, 27

1848. *Cerithium Kochi* PHILIPPI, Zeitschr. f. Malakoz., 1848, [pt. of Feb.], p. 21.—1849. *Cerithium Kochi* PH.: PHILIPPI, Abb. u. Besch. Conchyl., Bd. III, Heft IV, p. 14 [*Cerithium*, p. 2], pl. XX-4 [*Cerithium*, pl. I], fig. 3.—1922. *Cerithium (Clava) kochi* PHILIPPI: Foss. Kazusa Shimosa, p. 71, pl. III, fig. 13.—1927. *Cerithiopsis pontilis* YOKOYAMA, Moll. westn. Shimosa [etc.], p. 450, pl. LI, fig. 7.

Fossil occurrence.—Ôtake and Ichikawa. Ecology.—P -0-41, J -41. N<sub>1</sub>. S.

#### Familia Cerithiopsidae

##### Genus *Cyrbasia* HARRIS & BURROWS, 1891

##### Subgenus *Joculator* HEDLEY, 1909

*Cyrbasia (Joculator) pulviformis* (YOKOYAMA) .....Pl. 5, Fig. 28

1924. *Cerithiopsis pulviformis* YOKOYAMA, Moll. Coral-Bed, pp. 21-22, pl. I, fig. 12.

Fossil occurrence.—Numa. Ecology.—Unknown.

Genus *Seila* ADAMS (A.), 1861 ケシカニモリ属

- Seila yokoyamai* COSSMANN .....Pl. 5, Fig. 25  
 1922. *Cerithiopsis trisulcatus* YOKOYAMA, Foss. Kazusa Shimosa, pp. 73-74, pl. III, fig. 15.—  
 1923. [*Seila*] *Yokoyamai* COSSMANN, Rev. Crit. Pal., Année 1923, no. 3, p. 116.  
 Fossil occurrence.—Shitô. Ecology.—P 35-39, J -37.

## Familia Triphoridae

Genus *Triphora* BLAINVILLE, 1828

*Triphora multigyrate* (YOKOYAMA) カズマキキリオレ .....Pl. 6, Fig. 1

1922. *Triforis multigyrate* YOKOYAMA, Foss. Kazusa Shimosa, pp. 74-75, pl. V, fig. 5.  
 Fossil occurrence.—Shitô. Ecology.—P 35, J 35.

*Triphora conspersa* (SMITH (E. A.)) サフランキリオレ .....Pl. 6, Figs. 3, 4

1875. *Triphoris conspersus* SMITH (E.A.), Ann. Mag. nat. Hist., ser. 4, vol. XVI, no. 92, pp. 106-107.—1922. *Triforis otsuensis* YOKOYAMA: YOKOYAMA, Foss. Kazusa Shimosa, p. 74, pl. III, fig. 16.—1924. *Triforis exilis* DUNKER: YOKOYAMA, Moll. Coral-Bed, p. 23, pl. V, fig. 14.—1954. *Triphora sematensis* OYAMA in TAKI & OYAMA, Plioc. & later Faunas, p. 11, pl. 23, fig. 16, new name for *Triforis otsuensis* YOKOYAMA, 1920, sensu YOKOYAMA, 1922.  
 Fossil occurrence.—Shitô and Numa. Ecology.—P 31-35, J -36. N<sub>1-2</sub>. R, G.

*Triphora otsuensis* (YOKOYAMA) ホソアラレキリオレ .....Pl. 6, Fig. 2

1920. *Triforis otsuensis* YOKOYAMA, Foss. Miura [etc.], pp. 69-70, pl. IV, fig. 11.—not 1922.  
*Triforis otsuensis* YOKOYAMA, Foss. Kazusa Shimosa, p. 74, pl. III, fig. 16. (= *Triphora conspersa* SMITH (E.A.))  
 Fossil occurrence.—Ôtsu. Ecology.—P 31-35. N<sub>1-3</sub>. G, gS.

## Superfamilia Epitoniacea

## Familia Epitoniidae

Genus *Nodiscala* DE BOURY, 1890

*Nodiscala matajiroi* KURODA コフシイトカケ .....Pl. 6, Fig. 26

1927. *Scala rissoinaeformis* YOKOYAMA, Moll. Tokyo [etc.], p. 418, pl. XLVII, fig. 4, non *Scala rissoinaeformis* MELVILL & STANDEN, 1903.—1934. *Nodiscala matajiroi* KURODA, Venus, vol. 18, no. 2, p. 142.  
 Fossil occurrence.—Ôji. Ecology.—P 33-34, J -37. N<sub>1</sub>. R.

Genus *Cirsotrema* MÖRCH, 1952

*Cirsotrema turriculoides* (YOKOYAMA) .....Pl. 6, Fig. 28

1920. *Scalaria turriculoides* YOKOYAMA, Foss. Miura [etc.], p. 78, pl. V, fig. 12.  
 Fossil occurrence.—Koshiha. Ecology.—Unknown.

Genus *Amaea* ADAMS (H.) & ADAMS (A.), 1853

*Amaea densicostata* (YOKOYAMA) カズイトカケガイ .....Pl. 6, Figs. 29, 30

1920. *Scalaria (Acrilla) densicostata* YOKOYAMA, Foss. Miura [etc.], p. 79, pl. V, figs. 14a-c. Fossil occurrence.—Koshiha.

*Amaea ojiensis* (YOKOYAMA) オオジイトカケ .....Pl. 6, Fig. 31

1927. *Scala (Acrilla) ojiensis* YOKOYAMA, Moll. Tokyo [etc.], p. 417, pl. XLVII, fig. 3. Fossil occurrence.—Ôji.

Genus *Constantia* ADAMS (A.), 1860

*Constantia picturata* (YOKOYAMA) .....Pl. 6, Fig. 13

1922. *Scalaria picturata* YOKOYAMA, Foss. Kazusa Shimosa, p. 89, pl. IV, fig. 20. Fossil occurrence.—Shitô.

Genus *Epitonium* RÖDING, 1798Subgenus *Turbiniscala* DE BOURY, 1909

*Epitonium (Turbiniscala) replicatum* (SOWERBY) ハスイトカケ .....Pl. 6, Fig. 25

1844. *Scalaria replicata* SOWERBY (G.B. II), Thes. Conch., vol. II, pt. 4, pp. 84-85, pl. XXXII, figs. 23, 24.—1844. *Scalaria replicata* SOWERBY (G.B. II), Proc. Zool. Soc. London, pt. XII (1844), no. CXXXII, p. 11.—1927. *Scala replicata* SOWERBY: YOKOYAMA, Moll. Tokyo [etc.], p. 417, pl. XLVII, fig. 1.

Fossil occurrence.—Kuruma-chô. Ecology.—P -0-34, J -37. N<sub>1</sub>.

Subgenus *Acutiscala* DE BOURY, 1909

*Epitonium (Acutiscala) conjunctum* (YOKOYAMA) ツヅリシノブガイ .....Pl. 6, Fig. 27

1922. *Scalaria conjuncta* YOKOYAMA, Foss. Kazusa Shimosa, p. 88, pl. IV, fig. 18. Fossil occurrence.—Tega. Ecology.—J 40.

Subgenus *Glabriscala* DE BOURY, 1909

*Epitonium (Glabriscala) stigmaticum* (PILSBRY) チャマダライトカケ .....Pl. 6, Fig. 22

1911. *Scala stigmatica* PILSBRY, Nautilus, vol. XXV, no. 3, p. 34.—1922. *Scala maculosa* ADAMS: YOKOYAMA, Foss. Kazusa Shimosa, p. 86, pl. IV, fig. 14.

Fossil occurrence.—Ôtake. Ecology.—P 33-34, J -36. N<sub>1</sub>. S.

Subgenus *Depressiscala* DE BOURY, 1909

*Epitonium (Depressiscala) auritum* (SOWERBY) オダマキ .....Pl. 6, Fig. 17

1844. *Scalaria aurita* SOWERBY (G.B. II), Thes. Conch., vol. I, pt. 4, p. 92<sup>bis</sup>, pl. XXXIII, fig. 62.—1844. *Scalaria aurita* SOWERBY (G.B. II), Proc. Zool. Soc. London, pt. XII (1844), no. CXXXII, p. 26.—1922. *Scalaria aurita* SOWERBY: YOKOYAMA, Foss. Kazusa Shimosa, pp. 85-86, pl. IV, fig. 13.

Fossil occurrence.—Ôtake. Ecology.—P -0-35, J -41. N<sub>1</sub>. S.

Subgenus *Cinctiscala* DE BOURY, 1909

*Epitonium (Cinctiscala) sagamiense azumanum* (YOKOYAMA)

アヅマイトカケ.....Pl. 6, Fig. 21

1922. *Scalaria azumana* YOKOYAMA, Foss. Kazusa Shimosa, pp. 86-87, pl. IV, fig. 15.

Fossil occurrence.—Shitô. Ecology.—P 35. N<sub>3</sub>.

*Epitonium (Cinctiscala) kazusense* (YOKOYAMA) .....Pl. 6, Fig. 20

1922. *Scalaria kazusensis* YOKOYAMA, Foss. Kazusa Shimosa, p. 87, pl. IV, fig. 16,

Fossil occurrence.—Shitô. Ecology.—P 35, J 40.

*Epitonium (Cinctiscala) yamakawai* (YOKOYAMA).....Pl. 6, Fig. 18

1922. *Scalaria yamakawai* YOKOYAMA, Foss. Kazusa Shimosa, pp. 87-88, pl. IV, fig. 17.

Fossil occurrence.—Ôtake. Ecology.—P 34. N<sub>1</sub>.

Subgenus *Mazescala* IREDALE, 1936

*Epitonium (Mazescala) subfrondiculum* (YOKOYAMA) コヒメネジガイ ....Pl. 6, Fig. 19

1922. *Scalaria subfrondicula* YOKOYAMA, Foss. Kazusa Shimosa, pp. 88-89, pl. IV, fig. 19.

Fossil occurrence.—Shitô.

*Epitonium (Mazescala) sp.* .....Pl. 6, Fig. 24

1927. *Scala pulcherrima* (SOWERBY): Moll. Tokyo [etc.], p. 416, pl. XLVII, fig. 5.

Fossil occurrence.—Ôji. Ecology.—Unknown.

Subgenus *Papyriscala* DE BOURY, 1909

*Epitonium (Papyriscala) yokoyamai* SUZUKI et ICHIMURA ヤキモリ .....Pl. 6, Fig. 23

1927. *Scala lyra* SOWERBY: YOKOYAMA, Moll. Tokyo [etc.], p. 417, pl. XLVII, fig. 2.—1936.

*Epitonium (Lineoscala?) yokoyamai* SUZUKI et ICHIMURA, Jour. Geol. Soc. Japan. vol. XLIII, no. 516, p. 719, new name for *Scala lyra* SOWERBY sensu YAKOYAMA.

Fossil occurrence.—Kuruma-chô. Ecology.—P 32-35. N<sub>1</sub>. fS, mS.

Superfamilia Eulimacea

Familia Aclidæ

Genus *Aclis* LOVÈN, 1846

*Aclis (?) angulifera* (YOKOYAMA) センマイドウシ .....Pl. 6, Fig. 14

1922. *Turbonilla (Careliopsis) angulifera* YOKOYAMA, Foss. Kazusa Shimosa, p. 106, pl. V, fig. 16.

Fossil occurrence.—Shitô. Ecology.—P 35. N<sub>3-4</sub>. S.



## Familia Eulimidae

Genus *Eulima* RISSO, 1826

*Eulima ozawai* YOKOYAMA ハナゴウナ .....Pl. 6, Fig. 6

1927. *Eulima (Subularia) ozawai* YOKOYAMA, Moll. westn. Shimosa [etc.], pp. 452-453, pl. LI, fig. 15.

Fossil occurrence.—Ichikawa. Ecology.—P 35-34, J -40. N<sub>1</sub>. S.

*Eulima hojoensis* YOKOYAMA .....Pl. 6, Fig. 5

1924. *Eulima (Leiostraca) hojoensis* YOKOYAMA, Moll. Coral-Bed, pp. 29-30, pl. I, fig. 21.

Fossil occurrence.—Numa. Ecology.—Unknown.

*Eulima uncinata* YOKOYAMA .....Pl. 6, Fig. 16

1922. *Eulima (Leiostraca) uncinata* YOKOYAMA, Foss. Kazusa Shimosa, pp. 89-90, pl. IV, fig. 21.

Fossil occurrence.—Ôtake. Ecology.—J 36.

Genus *Balcis* LEACH, 1852

*Balcis sagamiana* (YOKOYAMA) サガミセトモノガイ .....Pl. 6, Fig. 8

1920. *Eulima (Leiostraca) sagamiana* YOKOYAMA, Foss. Miura [etc.], p. 80, pl. V, figs. 8a-b.

Fossil occurrence.—Naganuma.

*Balcis shibana* (YOKOYAMA).....Pl. 6, Fig. 12

1927. *Eulima (Leiostraca) shibana* YOKOYAMA, Moll. Tokyo [etc.], p. 418, pl. XLVII, fig. 8.

Fossil occurrence.—Kuruma-chô. Ecology.—P 39.

*Balcis tokunagai* (YOKOYAMA) .....Pl. 6, Fig. 7

1922. *Eulima (Leiostraca) tokunagai* YOKOYAMA, Foss. Kazusa Shimosa, p. 90, pl. IV, fig. 22.

Fossil occurrence.—Ôtake. Ecology.—Unknown.

*Balcis yokosukensis* (YOKOYAMA) .....Pl. 6, Fig. 10

1920. *Eulima (Leiostraca) yokosukensis* YOKOYAMA, Foss. Miura [etc.], pp. 79-80, pl. V, fig. 7.

Fossil occurrence.—Yokosuka. Ecology.—Unknown.

*Balcis glabroides* (YOKOYAMA) .....Pl. 6, Fig. 9

1922. *Eulima (Leiostraca) glabroides* YOKOYAMA, Foss. Kazusa Shimosa, pp. 90-91, pl. IV, fig. 23.

Fossil occurrence.—Shitô. Ecology.—P 39.

*Balcis krishna* (YOKOYAMA).....Pl. 6, Fig. 11

1922. *Eulima (Leiostraca) krishna* YOKOYAMA, Foss. Kazusa Shimosa, p. 91, pl. IV, fig. 24.

Fossil occurrence.—Shitô. Ecology.—Unknown.

## Superfamilia Architectonicacea

## Familia Architectonicidae

Genus *Torinista* IREDALE, 1936

*Torinista elegantula* (YOKOYAMA) .....Pl. 3, Fig. 21

1922. *Torinia elegantula* YOKOYAMA, Foss. Kazusa Shimosa, pp. 78-79, pl. IV, fig. 2.  
Fossil occurrence.—Shitô. Ecology.—P 35.

Genus *Philippia* GRAY, 1847

*Philippia radiata* (RÖDING) コゲルマ.....Pl. 3, Fig. 17

1798. *Architectonica radiata* [RÖDING], Mus. Bolten., pars 2, p. 79.—1838-39. *Solarium cingulum* KIENER, Icon. Coq. viv., vol. X, Cadran (*Solarium*), pp. 6-7, pl. 3, figs. 6, 6a.—1922. *Solarium (Philippia) cingulum* KIENER: YOKOYAMA, Foss. Kazusa Shimosa, p. 77, pl. III, fig. 19.

Fossil occurrence.—Shitô. Ecology.—P -0-35. N<sub>1</sub>. S.

Genus *Architectonica* [RÖDING], 1798 クルマガイ属Subgenus *Architectonica* s. str.

*Architectonica (Architectonica) yokoyamai* OYAMA .....Pl. 3, Fig. 22

1922. *Solarium (Philippia) pseudoperspectivum* BROCCHI: YOKOYAMA, Foss. Kazusa Shimosa, pp. 77-78, pl. III, fig. 20.—1954. *Architectonica yokoyamai* OYAMA in TAKI & OYAMA, Plioc. & later Faunas, p. 9, pl. 23, fig. 20, new name for *Solarium pseudoperspectivum* BROCCHI sensu YOKOYAMA.

Fossil occurrence.—Shitô. Ecology.—[N<sub>4</sub>]. [fS].

Subgenus *Solariaxis* DALL, 1892

*Architectonica (Solariaxis) lenticulata* (YOKOYAMA).....Pl. 3, Fig. 20

1920. *Solarium lenticulatum* YOKOYAMA, Foss. Miura [etc.], pp. 72-73, pl. IV, figs. 21a-b.  
Fossil occurrence.—Koshiba.

## Superfamilia Naticacea

## Familia Naticidae

Genus *Uberella* FINLAY, 1928

*Uberella yokoyamai* (KURODA et HABE) ヨコヤマオリイレンシラタマ.....Pl. 7, Fig. 11

1920. *Polinices pallidus* BRODERIP & SOWERBY: YOKOYAMA, Foss. Miura [etc.], p. 77, pl. IV, figs. 1a, b.—1952. *Gennaosnum* (?) *yokoyamai* KURODA and HABE, Check List [etc.] Mar. Moll. Japan, pp. 12, 59, new name for *Polinices pallidus* [sensu] YOKOYAMA, not BRODERIP and SOWERBY.

Fossil occurrence.—Koshiba. Ecology.—P 33-35. N<sub>4</sub>B<sub>2</sub>. mS.

Genus *Polinices* MONTFORT, 1810

*Polinices sagamiensis* (PILSBRY) ウチャマタマツバキ .....Pl. 7, Fig. 7

1904. *Polinices sagamiensis* PILSBRY, Proc. Acad. Nat. Sci. Philadelphia, 1904, [pt. of Jan.], pp. 23-24, pl. IV, figs. 37, 37a.—1922. *Polinices powisianus* RECLUZ: YOKOYAMA, Foss. Kazusa Shimosa, pp. 83-84, pl. IV, fig. 12.  
Fossil occurrence.—Ôtake. Ecology.—P 31-35, J -38. N<sub>1-2</sub>. S.

Genus *Neverita* RISSO, 1826

Subgenus *Glossaulax* PILSBRY, 1929

*Neverita (Glossaulax) reiniana* (DUNKER) ハナツメタ .....Pl. 7, Fig. 2

1877. *Neverita Reiniana* DUNKER, Malakoz. Bl., Bd. XXIV, p. 71.—1882. *Neverita Reiniana* DKR.: DUNKER, Index Moll. Mar. Japan., p. 62, pl. IV, figs. 15, 16.—1920. *Polinices ampla* PHILIPPI (part): YOKOYAMA, Foss. Miura [etc.], pp. 77-78, pl. V, figs. 6a-b (not fig. 5).

Fossil occurrence.—Naganuma. Ecology.—P 26+35, J -37. N<sub>1-3</sub>. sM. From the occurrence in western Okinawa Islands (P 26) the range should be extended southward.

*Neverita (Glossaulax) didyma* (RÖDING) var. ツメタガイ .....Pl. 7, Fig. 1

1798. *Albula Didyma* [RÖDING], Mus. Bolten., pars 2, p. 20.—1920. *Polinices ampla* PHILIPPI (pars): YOKOYAMA, Foss. Miura [etc.], pp. 77-78, pl. V, figs. 5a-b. (not fig. 6).

Fossil occurrence.—Naganuma. Ecology.—P -0-42, J -45. N<sub>1</sub>. S, (mS).

Genus *Mammilla* SCHUMACHER, 1817

*Mammilla* sp. (nov. ?)  $\alpha$ . ヨコヤマリスガイ .....Pl. 7, Fig. 9

1922. *Sigaretus (Eunaticina) oblongus* REEVE: YOKOYAMA (pars), Foss. Kazusa Shimosa, p. 85, pl. V, fig. 9 [non pl. IV, fig. 11].

Fossil occurrence.—Shisui. Ecology.—P 34. N<sub>1</sub>.

*Mammilla* sp. (nov. ?)  $\beta$ . オオツカリスガイ .....Pl. 7, Fig. 10

1922. *Sigaretus (Eunaticina) oblongus* REEVE (pars): YOKOYAMA, Foss. Kazusa Shimosa, p. 85, pl. IV, fig. 11.

Fossil occurrence.—Shitô. Ecology.—P 34. N<sub>2</sub>.

Genus *Eunaticina* FISCHER (P.), 1885

*Eunaticina papilla* (GMELIN) ネコガイ .....Pl. 7, Fig. 5

1791. *Nerita Papilla* GMELIN in LINNAEUS, Syst. Nat., ed. 13, Tom. I, Pars VI, p. 3675.—1922. *Sigaretus (Eunaticina) papilla* GMELIN: YOKOYAMA, Foss. Kazusa Shimosa, pp. 84-85, pl. V, fig. 8.

Fossil occurrence.—Shitô. Ecology.—P -0-39, J -41. N<sub>1</sub>. S.

Genus *Cryptonatica* DALL, 1892

*Cryptonatica janthostomoides* (KURODA & HABE) エゾタマガイ .....Pl. 7, Figs. 12, 13

1920. *Natica janthostoma* DESHAYES: YOKOYAMA, Foss. Miura [etc.], pp. 76-77, pl. V, figs. 3, 4.—1949. *Tectonatica janthostomoides* KURODA & HABE, Japan. Jour. Malac. (Venus),

vol. 15, nos. 5-8, pp. 71-72, text-figs. 1c, d.

Fossil occurrence.—Koshihara and Naganuma. Ecology.—P 31-42, J -43. N<sub>1-2</sub>. S, mS.

Superfamilia Calyptraeacea

Familia Trichotropidae

Genus *Trichotropis* BRODERIP & SOWERBY, 1829

Subgenus *Iphinoe* ADAMS (H.) & ADAMS (A.), 1854

*Trichotropis (Iphinoe) unicarinata* SOWERBY ネジヌキ.....Pl. 7, Fig. 6

1834. *Trichotropis unicarinata* SOWERBY (G.B. II), Gen. Shells, (42), (fide SHERBORN, 1931).

—1922. *Trichotropis unicarinata* BRODERIP et SOWERBY: YOKOYAMA, Foss. Kazusa Shimosa, p. 75, pl. XIII, fig. 11.

Fossil occurrence.—Shitô. Ecology.—P 33+41, J 32+41. N<sub>2-3</sub>. sM, mS. The occurrence from Tosa (P 33) and Amakusa Islands extends the southern limits.

Remark.—Confusion of author name has occurred in the literature, since TRYON, 1887, referred BRODERIP and SOWERBY for the author name of this species. The name, *Trichotropis unicarinata*, has not been found in page 376 of Zoological Journal, vol. IV, to which TRYON referred. When BRODERIP and SOWERBY, 1829, introduced the generic name, *Trichotropis* (Zool. Jour., vol. IV, pp. 373-374, *T. bicarinata* (pp. 374-375) and *T. borealis* (p. 375) were included, and also "*Fusus 4-costatus [quadricostatus]*" of SAY" with some hesitation (p. 375). TRYON must have confused *unicarinata* with *bicarinata*, and the author name of the present species should be "SOWERBY (G.B. II)" instead of "BRODERIP and SOWERBY (G.B. I)".

Subgenus *Trichosirius* FINLAY, 1926

*Trichotropis (Trichosirius) planicostata* YOKOYAMA ヒラスジヒゲマキボラ..Pl. 7, Fig. 4

1420. *Trichotropis planicostata* YOKOYAMA, Foss. Miura [etc.], p. 70, pl. IV, fig. 6.

Fossil occurrence.—Koshihara. Ecology.—Unknown.

Familia Capulidae

Genus *Capulus* MONTFORT, 1810

*Capulus yokoyamai* OYAMA .....Pl. 8, Fig. 9

1922. *Capulus badius* DUNKER: YOKOYAMA, Foss. Kazusa Shimosa, p. 82, pl. IV, fig. 9.—

1954. *Capulus yokoyamai* OYAMA in TAKI & OYAMA, Plioc. & later Faunas, p. 16, pl. 24, fig. 9.

Fossil occurrence.—Kamenari. Ecology.—Unknown.

Familia Calyptraeidae

Genus *Calyptraea* LAMARCK, 1799

Subgenus *Calyptraea* s. str.

*Calyptraea (Calyptraea) yokoyamai* KURODA カリバガサ.....Pl. 8, Fig. 3

1920. *Calyptraea mamilaris* BRODERIP: YOKOYAMA, Foss. Miura [etc.], pp. 75-76, pl. IV, figs. 5a-c.—1929. *Calyptraea yokoyamai* KURODA in FUJITA, Venus, vol. I, no. 3, p. 94.

Fossil occurrence.—Kami-Miyata. Ecology.—P 32-35. N<sub>3</sub>. S, shS. On shell remains (especially bivalves) of the subneritic to shell sand bottom.

Genus *Syphopatella* LESSON, 1831

*Syphopatella walshi* (REEVE) ヒラフネガイ .....Pl. 8, Figs. 5, 6

1859. *Crepidula Walshi* REEVE, Conch. Icon., vol. XI, *Crepidula*, sp. 17, pl. III, tgs. 17a-b.—  
1920. *Crepidula orbella* YOKOYAMA, Foss. Miura [etc.], p. 76, pl. IV, figs. 22a-b, 23a-b.  
Fossil occurrence.—Naganuma. Ecology.—P -0-35, J -36. N<sub>1-2</sub>. Sh. This species lives in  
the aperture of gastropod remains occupied by hermit crab on euneritic to mesoneritic rock  
or sand bottoms. The shell which is found from surface of shell remains differs in its shape,  
and this fossil belong to a type from a shell surface.

Genus *Crepidula* LAMARCK, 1799Subgenus *Crepidula* s. str.

*Crepidula* (*Crepidula*) *grandis* MIDDENDORFF var. エゾフネガイ .....Pl. 8, Fig. 7

1849. *Crepidula garndis* MIDDENDORFF, Bull. Phys. Math. Acad. Imp. Sci. St. Pétersburg, vol.  
VIII, pt. 1-2, p. 18 (fide SHERBORN, 1926).—1849. *Crepidula grandis* MIDD.: MIDDEN-  
DORFF, Beitr. Malac. Ross. II, pp. 429-431, pl. XI, figs. 8-10.—1922. *Crepidula grandis*  
MIDDENDORFF: YOKOYAMA, Foss. Kazusa Shimosa, pp. 82-83, pl. IV, fig. 10.  
Fossil occurrence.—Shitô. Ecology.—P (34+-) 36-50+, J -50. N<sub>1-2</sub>. Sh. On the surface of  
*Pecten*, *Neptunea*, operculum of *Fusitriton*, in the aperture of a gastropods occupied by hermit  
crab. This species was collected from Enshû-Nada (34+), but such an occurrence must be  
considered an occasional appearance. It, also, has been reported from the North Kuril Islands  
(P 50) which occurrence was neglected in the Check List.

Subgenus *Bostrycapulus* OLSSON & HARBISON, 1953

*Crepidula* (*Bostrycapulus*) *gravispinosa* KURODA & HABE

クルスガイ (アワフネ) .....Pl. 8, Fig. 11

1924. *Crepidula aculeata* GMELIN: YOKOYAMA, Moll. Coral-Bed, p. 29, pl. I, figs. 12a, b.—  
1950. *Crepidula gravispinosa* KURODA & HABE, Illustr. Catal. Japan. Moll., [ser. 1], no.  
4, p. 30, new name for *C. aculeata* (GMELIN) sensu HIRASE (S.) and KURODA, Illustr.  
Encycl. Fauna Japan, p. 1140, fig. 3239.  
Fossil occurrence.—Numa. Ecology.—P 6? 26+-35, J -38. N<sub>0-1</sub>. R (Sh).

## Superfamilia Strombacea

## Familia Strombidae

Genus *Canarium* SCHUMACHER, 1817Subgenus *Doxander* IREDALE, 1931

*Canarium* (*Doxander*) *japonicum* (REEVE) シドロ .....Pl. 10, Fig. 4

1851. *Strombus Japonicus* REEVE, Conch. Icon., vol. VI, *Strombus*, sp. 42, pl. XVII, fig. 42.—  
1922. *Strombus japonicus* REEVE: YOKOYAMA, Foss. Kazusa Shimosa, p. 70, pl. III, fig. 12.  
Fossil occurrence.—Ôtake. Ecology.—P 26-35, J -41. N<sub>1</sub>. fs.

## Superfamilia Lamellariacea

## Familia Lamellariidae

Genus *Velutina* FLEMING, 1822Subgenus *Velutella* GRAY, 1847*Velutina (Velutella) takatensis* (YOKOYAMA) ハナヅトガイ .....Pl. 8, Fig. 2[? 1860. *Velutina Pusio* ADAMS (A.), Ann. Mag. nat. Hist., ser. 3, vol. V, no. 29, p. 411].—  
1922. *Philine takatensis* YOKOYAMA, Foss. Kazusa Shimosa, p. 28, pl. V, fig. 4.

Fossil occurrence.—Shitô. Ecology.—P 34-39, J 32+-37. N. This species has been reported from Amakusa Islands (J 32) which is the southernmost record.

## Familia Eratoidae

## Subfamilia Eratoinae

Genus *Proterato* SCHILDER, 1927Subgenus *Sulcerato* FINLAY, 1930*Proterato (Sulcerato) callosa* (ADAMS & REEVE) ザクロガイ .....Pl. 8, Fig. 101850. *Erato callosa* ADAMS & REEVE, Zool. Voy. "Samarang", Moll., p. 25, pl. X, figs. 32a, b.  
—1922. *Erato callosa* ADAMS et REEVE: YOKOYAMA, Foss. Kazusa Shimosa, pp. 69-70,  
pl. III, figs. 11, 11a.Fossil occurrence.—Ôtake. Ecology.—P 26-35, J -41. N<sub>0-1</sub>. R, gR.

## Subfamilia Triviinae

Genus *Trivirostra* JOUSSEAUME, 1884*Trivirostra edgari* (SHAW) ハダカムギガイ .....Pl. 8, Fig. 81849. *Cypraea grando* GASKOIN, Proc. Zool. Soc. London, pt. XVI, no. CLXXXVI, pp. 96-97.  
—1909. *Trivia Edgari* SHAW, Proc. Malac. Soc. London, vol. VIII, no. 5, p. 310, new  
name for *T. grando* GASKOIN, 1849, non DUCLOS in POTIEZ & MICHAUD, 1838.—1927.  
*Cypraea (Trivia) oryza* PEASE: YOKOYAMA, Moll. Tokyo [etc.], p. 413, pl. XLVI, fig. 22.Fossil occurrence.—Ôji. Ecology.—P -0-29. N<sub>1</sub>.

## Familia Cypraeidae

Genus *Erronea* TROSCHEL, 1863Subgenus *Palmadusta* IREDALE, 1930*Erronea (Palmadusta) gracilis japonica* SCHILDER メダカラガイ .....Pl. 8, Fig. 131924. *Cypraea candida* PEASE: YOKOYAMA, Moll. Coral-Bed, p. 18, pl. II, fig. 1.—1931. *Erronea japonica* SCHILDER, Zool. Anz., Bd. 96, Nr. 314, pp. 67, 68.Fossil occurrence.—Ko-yatsu. Ecology.—P 23-35, J -40. N<sub>0-1</sub>. R.Genus *Cypraea* LINNAEUS, 1758Subgenus *Lyncina* TROSCHEL, 1863*Cypraea (Lyncina) vitellus vitellus* LINNAEUS ホシキヌタ .....Pl. 8, Fig. 12

1758. *Cypraea Vitellus* LINNAEUS, Syst. Nat., ed. 10, Tom. I, p. 721.—1911. *Cypraea carneola* LINNÉ: YOKOYAMA, Climat. Change, p. 8, pl. I, fig. 5.—1924. *Cypraea carneola* LINNÉ: YOKOYAMA, Moll. Coral-Bed, p. 18, pl. I, fig. 11.—1941. *Lyncina carneola yokoyamai* SCHILDER, Arch. f. Moll., Bd. 73, nr. 2-3, p. 87, new name for *Cypraea vitellus* LINNÉ sensu YOKOYAMA.

Fossil occurrence.—Numa. Ecology.—P -0-35, J -33+. N<sub>1</sub>. R.

### Superfamilia Tonnacea

#### Familia Cassididae

#### Genus *Phalium* LINK, 1807

#### Subgenus *Bezoardicella* HABE, "1961"

*Phalium (Bezoardicella) variegatum* (PERRY) カズラガイ .....Pl. 8, Fig. 4

1811. *Cassis variegatum* PERRY, Conchology, pl. 33, fig. 3.—1922. *Cassis strigata* GMELIN: YOKOYAMA, Foss. Kazusa Shimosa, p. 68, pl. III, fig. 9.

Fossil occurrence.—Ôtake. Ecology.—P 32-35, J 33. N<sub>1-2</sub>. S. The record of the occurrence may be altered by future revision, because this form has been confused with *P. flammiferum* (RÖDING).

Remark.—This species had long been called *Cassis* [or *Phalium*] *strigata* (GMELIN), but *Buccinum strigatum* GMELIN, 1791, had already been preoccupied by MÜLLER, 1774. *Phalium strigatum* auct. contains two forms, *P. flammiferum* ([RÖDING], 1798) [= *Buccinum strigatum* GMELIN, non MÜLLER] and *P. variegatum* (PERRY). It is not yet worked out whether both forms differs specifically or not.

#### Familia Cymatiidae

#### Genus *Ranella* LAMARCK, 1816

#### Subgenus *Fusitriton* COSSMANN, 1903

*Ranella (Fusitriton) galea* (KURODA & HABE) カブトアヤボラ.....Pl. 10, Figs. 2, 3

1920. *Triton (Priene) oregonensis* REDFIELD: YOKOYAMA, Foss. Miura [etc.], pp. 64-65, pl. III, figs. 19, 20a-b.—1961. *Fusitriton galea* KURODA & HABE in HABE, Color. Illustr. Shells Japan (II), p. 46, App. p. 18, pl. 23, fig. 11.

Fossil occurrence.—Koshiba. Ecology.—P 33+-35+. N<sub>4</sub>. S. This species range from Kôchi Prefecture to Chôshi (P 35).

#### Genus *Cymatium* [RÖDING], 1798

#### Subgenus *Monoplex* PERRY, 1811

*Cymatium (Monoplex) echo* KURODA & HABE カコボラ .....Pl. 9, Fig. 3

1911. *Triton costatus* BORN: YOKOYAMA, Clim. Changes, p. 8, pl. 1, fig. 9.—1924. *Triton (Simpulum) costatus* (BORN) YOKOYAMA, Moll. Coral-Bed, p. 17, pl. 1, fig. 16.—1950. *Cymatium echo* KURODA & HABE, Illustr. Catal. Japan. Shells, [ser. 1], no. 4, p. 30, new name for *Cymatium parthenopeum* SALIS sensu HIRASE (S.), 1947, Illustr. Encycl. Fauna Japan, (rev. ed.), p. 1125, fig. 3194.

Fossil occurrence.—Numa. Ecology.—P 31-35, J -41. N<sub>(0)1</sub>. R.

#### Subgenus *Reticutriton* HABE & KOSUGE, 1966

*Cymatium (Reticutriton) tenuiliratum* (LISCHKE) ナガスズカケ .....Pl. 9, Fig. 7

1872. *Triton tenuiliratus* LISCHKE, Malacoz. Bl., Bd. XXI, p. 20.—1874. *Triton tenuiliratus* LISCHKE: LISCHKE, Japan. Meer.-Conch., Bd. III, pp. 30-31, pl. II, figs. 18, 19.—1922. *Triton tenuiliratus* LISCHKE: YOKOYAMA, Foss. Kazusa Shimosa, p. 67, pl. III, fig. 8.  
Fossil occurrence.—Shitô. Ecology.—P 31-35, J -36. N<sub>(0)1-3</sub>. On coarse sand or rock of euneritic to subneritic bottom, rarely on tidal surface.

#### Subgenus *Ranularia* SCHUMACHER, 1817

*Cymatium (Ranularia) subpyrum* (YOKOYAMA).....Pl. 9. Figs. 1, 5

1920. *Triton subpyrum* YOKOYAMA, Foss. Miura [etc.], pp. 65-66, pl. IV, figs. 3, 4.  
Fossil occurrence.—Ninomiya and Naganuma. Ecology.—Unknown.

#### Genus *Charonia* GISTEL, 1848

*Charonia sauliae* (REEVE) トウカイボラ .....Pl. 9. Figs. 2, 6

1844. *Triton Sauliae* REEVE, Conch. Icon., vol. II, *Triton*, sp. 17, pl. V, figs. 17a, b.—1844. *Triton Sauliae* REEVE: REEVE, Proc. Zool. Soc. London, Pt. XII (1844), no. CXXXVII, pp. 112-113.—1922. *Siphonalia kelleltii* FORBES: YOKOYAMA, Foss. Kazusa Shimosa, pp. 56-57, pl. V, fig. 1.—1927. *Triton nodiferus* LAMARCK: YOKOYAMA, Moll. Tokyo [etc.], p. 413, pl. XLVII, fig. 25.

Fossil occurrence.—Shitô and Shinagawa. Ecology.—P 14?-36, J -36. N<sub>2-3</sub>. R, S. This ecological form has been caught from subneritic sand or rock bottom while a varietal form comes from euneritic rock.

#### Familia Colubrariidae

##### Genus *Colubraria* SCHUMACHER, 1817

*Colubraria castanea* KURODA & HABE セコバイ .....Pl. 9. Fig. 4

1911. *Triton obscurus* REEVE: YOKOYAMA, Climat. Change, p. 8, pl. I, fig. 7.—1924. *Triton (Epidromus) obscurus* REEVE: YOKOYAMA, Moll. Coral-Bed, p. 17, pl. I, fig. 9.—1952. *Colubraria castanea* KURODA and HABE, Check List [etc.] Mar. Moll. Japan, pp. 12, 48, new name for *Triton (Epidromus) comptus* SOWERBY, 1874, not A. ADAMS, 1854.  
Fossil occurrence.—Numa. Ecology.—P 22-35. N<sub>2</sub>. R.

#### Familia Tonnidae

##### Genus *Tonna* BRÜNNICH, 1772

*Tonna luteostoma* (KÜSTER) ヤツシロガイ .....Pl. 10. Figs. 1, 5

1857. *Dolium luteostomum* KÜSTER in MARTINI *et al.*, Syst. Conch.-Cab., N.F., Bd. III, Abt. 1b, pp. 66-67, pl. 58.—1920. *Dolium luteostoma* KÜSTER: YOKOYAMA, Foss. Miura [etc.], p. 66, pl. IV, figs. 2a-b.—1922. *Dolium luteostoma* KÜSTER: YOKOYAMA, Foss. Kazusa Shimosa, p. 69, pl. III, fig. 10.

Fossil occurrence.—Motowada (Miyata Group): Tega. Ecology.—P -0? 22-39, J -43. N<sub>1-3</sub>. G, S, mS, sM.



Subordo Neogastropoda  
Superfamilia Muricacea  
Familia Muricacea  
Genus *Rapana* SCHMACHER, 1817

*Rapana venosa* (VALENCIENNES) アカニシ .....Pl. 10, Fig. 6

1846. *Purpura venosa* VALENCIENNES, Voy. "Venus", Zool., Moll., pl. VII, fig. 1.—1861. *Rapana thomasiana* CROSSE, Jour. Conchylol., vol. IX [3<sup>e</sup> sér., tom. 1], [part of April], p. 176.—1861. *Rapana Thomasiana* CROSSE: CROSSE, Id., vol. IX, [part of July], pp. 268-270, pls. IX et X.—1922. *Rapana bezoar* LINNÉ var. *thomasiana* CROSSE: YOKOYAMA, Foss. Kazusa Shimosa, p. 66, pl. III, fig. 6.

Fossil occurrence.—Ôtake. Ecology.—P 22<sup>+</sup>-42, J -42. N<sub>1</sub>. sM, (R). Coastal water element. The southernmost occurrence is due to the record from Anping (P 22), Tainan City.

Genus *Thais* [RÖDING], 1798  
Subgenus *Reishia* KURODA & HABE, 1971

*Thais (Reishia) bronni* (DUNKER) レイシ .....Pl. 11, Fig. 21

1860. *Purpura Bronni* DUNKER, Malakoz. Bl., Bd. VI (1859), p. 235.—1861. *Purpura bronni* DKR.: DUNKER, Moll. Japon., p. 5, pl. I, fig. 23.—1920. *Purpura luteostoma* CHEMNITZ: YOKOYAMA, Foss. Miura [etc.], pp. 63-64, pl. III, figs. 27a-b.

Fossil occurrence.—Ôtsu. Ecology.—P 25-42<sup>+</sup>. J -42<sup>+</sup> N<sub>0-1</sub>. R. The northern ranges are extended by the record from Muroran (P 42) and Isoya (J 42) by SASAMORI.

*Thais (Reishia) clavigera* (KÜSTER) イボニシ .....Pl. 11, Fig. 2

1860. *Purpura clavigera* KÜSTER in MARTINI *et al.*, Syst. Conch.-Cab., N.F., Bd. III, Abt. 1a, pp. 186-187, pl. 31a, fig. 1.—1920. *Purpura alveolata* REEVE: YOKOYAMA, Foss. Miura [etc.], p. 64, pl. III, figs. 16a-b.

Fossil occurrence.—Naganuma. Ecology.—P 25-41, J -41. N<sub>0</sub>. R.

Genus *Mancinella* LINK, 1807

*Mancinella siro* (KURODA) シロレイシ .....Pl. 11, Fig. 1

1924. *Purpura (Thalessa) bitubercularis* LAMARCK: YOKOYAMA, Moll. Coral-Bed, p. 15, pl. 1, fig. 4.—1930. *Thais siro* KURODA, Venus, vol. 2, no. 1, pl. I, figs. 10, 11.—1931. *Thais (Mancinella) siro* KURODA, Venus, vol. 2, no. 6, pp. 315-316.

Fossil occurrence.—Numa. Ecology.—P 31-35, J -32<sup>+</sup>. N<sub>1</sub>. R. This species has been reported from Amakusa (J 32) by HABE *et al.*

Genus *Nucella* [RÖDING], 1798

*Nucella heyseana* (DUNKER) チヂミボラ.....Pl. 11, Fig. 14

1882. *Purpura Heyseana* DUNKER, Index Moll. Mar. Japon., p. 40, pl. XIII, figs. 10, 11.—1922. *Purpura heyseana* DUNKER: YOKOYAMA, Foss. Kazusa Shimosa, pp. 66-67, pl. III, fig. 7.

Fossil occurrence.—Shitô. Ecology.—P 35-.

Genus *Drupa* RÖDING, 1798Subgenus *Morula* SCHUMACHER, 1817

- Drupa (Morula) spinosa* (ADAMS (H.) & ADAMS (A.)) .....Pl. 11, Fig. 5
1846. *Ricinula chrysostoma* REEVE (pars), Conch. Icon., vol. III, *Ricinula*, pl. II, fig. 12b (non 12a), non *Purpura chrysostoma* DESHAYES, 1844.—1853. *Pentadactylus (Sistrum) spinosa* [-us] ADAMS (H.) & ADAMS (A.), Genera Rec. Moll., vol. I, pt. 130 (new name for *Ricinula chrysostoma* REEVE [non DESHAYES, 1844]).—1924. *Purpura (Cuma) rugosa* (BORN): YOKOYAMA, Moll. Coral-Bed, p. 16, pl. I, fig. 10—*Drupa (Morula) biconica* (BLAINVILLE): TAKI & OYAMA, 1954, Plioc. & later Faunas, p. 20, pl. 38, fig. 10.
- Fossil occurrence.—Numa. Ecology.—P -0-34. N<sub>1</sub>. R.

Genus *Ceratostoma* HERRMANNSEN, 1846Subgenus *Ocenebra* GRAY, 1847

- Ceratostoma (Ocenebra) aduncum* (SOWERBY) イセヨウラク .....Pl. 11, Figs. 9, 13
1834. *Murex aduncus* SOWERBY (G.B. I), Conch. Illustr., part 62, [pl. 5], fig. 35, (fide SHERBORN, 1922).—1922. *Ocenebra falcata* SOWERBY: YOKOYAMA, Foss. Kazusa Shimosa, p. 65, pl. III, fig. 4.—1922. *Ocenebra spectata* YOKOYAMA, Id., pp. 65-66, pl. III, fig. 5.
- Fossil occurrence.—Shitô. Ecology.—P 25-39, J -42. N<sub>3</sub>. gS.

Genus *Bedevina* HABE, 1946

- Bedevina birileffi* (LISCHKE) カゴメガイ .....Pl. 11, Fig. 4
1871. *Trophon Birileffi* LISCHKE, Malakoz. Bl., Bd. XVIII, p. 39.—1871. *Trophon Birileffi* LISCHKE: LISCHKE, Japan. Meer.-Conch., Bd. II, pp. 32-33.—1922. *Trophon pachyrhaphe* SMITH: YOKOYAMA, Foss. Kazusa Shimosa, p. 63, pl. III, fig. 1.
- Fossil occurrence.—Tega. Ecology.—P 21-36, J -37. N<sub>1</sub>. S, mS.

Genus *Ergalatax* IREDALE, 1931

- Ergalatax contractus* (REEVE) ヒメヨウラク .....Pl. 11, Fig. 3
1846. *Buccinum contractum* REEVE, Conch. Icon., vol. III, *Buccinum*, sp. 53, pl. VIII, fig. 53.—1924. *Ocenebra contracta* (REEVE): YOKOYAMA, Moll. Coral-Bed, p. 15, pl. I, fig. 2.
- Fossil occurrence.—Numa. Ecology.—P -0-35, J -43\*. N<sub>0-1</sub>. R. Takashima (J 43) near Otaru is the northernmost record of this species.

Genus *Trophon* MONTFORT, 1810Subgenus *Boreotrophon* FISCHER (P.), 1884

- Trophon (Boreotrophon) candelabrum* (REEVE) ツノオリイレ....Pl. 11, Fig. 6. 8. 11, 12
1848. *Fusus candelabrum* ADAMS & REEVE: REEVE, Conch. Icon., vol. IV, *Fusus*, sp. 79, pl. XIX, fig. 79.—1920. *Trophon subclavatus* YOKOYAMA, Foss. Miura [etc.], p. 60, pl. III, figs. 2a, b; pl. VI, figs. 13, 14.—1922. *Trophon subclavatus* YOKOYAMA: YOKOYAMA, Foss. Kazusa Shimosa, p. 64, pl. III, fig. 2.
- Fossil occurrence.—Shimo-Miyata and Shitô. Ecology.—P 34-39, J 33\*-46(?). This species has been reported from Suô-Nada. (J 33).

- Trophon (Boreotrophon) xestra nipponicus* YOKOYAMA .....Pl. 11, Figs. 7, 10  
 [1918. *Boreotrophon xestra* DALL, Proc. U.S. Nat. Mus., vol. 54, no. 2134, p. 232].—1920.  
*Trophon nipponicus* YOKOYAMA, Foss. Miura [etc.], pl. 61, pl. III, figs. 13a-b, 14.  
 Fossil occurrence.—Koshiha and Teramae. Ecology.—[P 35-44, J 36-38]. [B<sub>(2)</sub>]. [M].

Subgenus *Nipponotrophon* KURODA & HABE, 1971

- Trophon (Nipponotrophon) echinus* (DALL) コンゴウツノオリイレ..Pl. 11, Fig. 15-19, 22  
 1907. *Boreotrophon echinus* DALL, Proc. U.S. Nat. Mus., vol. 54, no. 2134, pp. 232-233.—1920.  
*Trophon inermis* SOWERBY: YOKOYAMA, Foss. Miura [etc.], pp. 62-63, pl. III, figs. 21,  
 22a, b, 23-26.  
 Fossil occurrence.—Koshiha. Ecology.—P 33-35. B<sub>2</sub>. mfs.

Genus *Siphonochelus* JOUSSEAUME, 1880

- Siphonochelus japonicus* (ADAMS (A.)) エントツヨウラク .....Pl. 11, Fig. 20  
 1863. *Typhis japonica* A. ADAMS, Proc. Zool. Soc. London, 1862, no. XXIV, p. 374.—1922.  
*Typhis arcuatus* HINDS: YOKOYAMA, Foss. Kazusa Shimosa, p. 64, pl. III, fig. 3.  
 Fossil occurrence.—Shitô. Ecology.—P 33-35, J -41. N<sub>3</sub>. mS.

Familia Coralliophilidae

Genus *Leptoconchus* RÜPPEL, 1834

- Leptoconchus striatus* (RÜPPEL) ムロガイ .....Pl. 10, Fig. 7  
 1834. *Magilus striatus* RÜPPEL, Trans. Zool. Soc. London, vol. 1, pp. 259-260, pl. XXXV, figs.  
 9, 10.—1880. *Magilus antiquus* LAM. (pars): TRYON, Man. Conch., vol. II, pt. 8, p.  
 216, pl. 68, figs. 402-408, 410, ?409, 411 (not 400, 401).—1924. *Leptoconchus rostratus* A.  
 ADAMS: YOKOYAMA, Moll. Coral-Bed, p. 16, pl. I, fig. 5.  
 Fossil occurrence.—Numa. Ecology.—P 26-33. N<sub>1</sub>. C.

Superfamilia Buccinacea

Familia Columbelloidea

Genus *Mitrella* RISSO, 1826

Subgenus *Mitrella* s. str.

- Mitrella (Mitrella) bicincta* (GOULD) ムギガイ .....Pl. 14, Figs. 1, 2, 12  
 1860. *Columbella bicincta* GOULD, Proc. Boston Soc. Nat. Hist., vol. VII, p. 335.—1860. *Nassa  
 varians* DUNKER, Malakoz. Bl., Bd. VI (1859), p. 231.—1861. *Amycla varians* DKR.:  
 DUNKER, Moll. Japon., p. 6, pl. I, fig. 17.—1862. *Columbella bicincta* GOULD: Otia  
 conch., p. 132.—1883. *Columbella Dunkeri* TRYON, Man. Conch., vol. V, pt. 19, p. 129,  
 pl. 49, fig. 15, new name for *C. varians* DUNKER, 1860, non SOWERBY (G.B. II), 1832.  
 —1920. *Columbella (Mitrella) dunkeri* TRYON: YOKOYAMA, Foss. Miura [etc.], p. 59,  
 pl. III, figs. 15a, b.—1922. *Columbella (Atilia) masakadoi* YOKOYAMA, Foss. Kazusa  
 Shimosa, p. 62, pl. II, fig. 23.—1922. *Columbella (Mitrella) dunkeri* TRYON: YOKOYAMA,  
 Id., pp. 62-63, pl. II, fig. 26.—1944. *Pyrene bicincta* (GOULD): YEN, 1944, Proc. Calif.  
 Acad. Sci., ser. 4, vol. XXIII, no. 38, pp. 571-572, pl. 51, fig. 4.—1905. *Columbella  
 bicincta* GOULD: JOHNSON, U.S. Nat. Mus., Bull. 239, p. 46, pl. 8, fig. 10 (lectotype).

Fossil occurrence.—Yokosuka, Shitô and Ôtake. Ecology.—P -0-41, J -43. N<sub>0-1</sub>. R, S.

*Mitrella (Mitrella) burchardi* (DUNKER) コウダカマツムシ .....Pl. 14, Fig. 5

[? 1852. *Columbella tenuis* GASKOIN, Proc. Zool. Soc. London, pt. XIX (1851), no. CCXIX, pp. 2-3].—1877. *Amycla Burchardti* DUNKER, Malakoz. Bl., Bd. XXIV, p. 67.—1882. *Amycla Burchardi* DKR.: DUNKER, Index Moll. Mar. Japon., pp. 55-56, pl. IV, figs. 3, 4.—1920. *Columbella (Atilia) burchardi* DUNKER: YOKOYAMA, Foss. Miura [etc.], pp. 59-60, pl. III, figs. 7a, b.

Fossil occurrence.—Yokosuka. Ecology.—P 31-51, J -46. N<sub>1</sub>. S.

#### Subgenus *Indomitrella* OOSTINGH, 1940

*Mitrella (Indomitrella) lischkei* (SMITH) シラゲガイ .....Pl. 14, Fig. 4

1879. *Columbella (Atilia) lischkei* SMITH (E.A.), Proc. Zool. Soc. London, 1879, no. XIII, pp. 207-208, pl. XX, fig. 41.—1922. *Columbella (Atilia) praecursor* YOKOYAMA, Foss. Kazusa Shimosa, pp. 61-62, pl. II, fig. 25.

Fossil occurrence.—Shitô. Ecology.—P 24-39, J -41. N<sub>1-3</sub>. R, S.

*Mitrella (Indomitrella) yabei* (NOMURA) スミスシラゲガイ .....Pl. 14, Fig. 3

1922. *Columbella (Atilia) smithi* YOKOYAMA, Foss. Kazusa Shimosa, p. 60, pl. II, fig. 24, non *Columella* [sic] (*Anachis*) *smithi* ANGAS, 1877.—1935. *Pyrene (Mitrella) yabei* NOMURA, Sci. Rep. Tohoku Imp. Univ., ser. 2, vol. XVIII, no. 2, pp. 157-158 (105-106), pl. VII (II), figs. 28a, b.—1954. [*Columbella*] *tokyoensis* HABE in KURODA, Venus, vol. 18, no. 2, p. 142, new name for *C. smithi* YOKOYAMA, non ANGAS.

Fossil occurrence.—Ôtake. Ecology.—P 26<sup>+</sup>-35. N<sub>2</sub>. [S]. The occurrence in western Okinawa Islands (P 26) is a new record.

*Mitrella (Indomitrella) turriculata* (YOKOYAMA) .....Pl. 14, Fig. 11

1922. *Columbella (Atilia) turriculata* YOKOYAMA, Foss. Kazusa Shimosa, p. 61, pl. II, fig. 2.

Fossil occurrence.—Ôtake.

Remark.—It is not impossible to consider that this form is merely an abnormally toward type of *M. (I.) lischkei* (SMITH) as seen in a malformation in some species of this family.

#### Genus *Zefra* ADAMS (A.), 1860

*Zefra sinensis* (SOWERBY (G. B. III)) ケシマツムシ .....Pl. 14, Fig. 9

1894. *Columbella (Anachis) sinensis* SOWERBY (G.B. III), Proc. Malac. Soc. London, vol. 1, no. 4, p. 154, pl. XII, fig. 5.—1924. *Columbella (Anachis) awana* YOKOYAMA, Moll. Coral-Beid, pp. 13-14, pl. I, fig. 1.

Fossil occurrence.—Numa. Ecology.—P 22-35<sup>+</sup>, J 37. Sagami Bay (P 35) is an northern extension of the Pacific side.

*Zefra pumila* (DUNKER) ノミニナ .....Pl. 14, Fig. 7

1860. *Columbella pumila* DUNKER, Malacoz. Bl., Bd. VI, (1859), pp. 224-225.—1861. *Columbella pumila* DKR.: DUNKER, Moll. Japon., p. 6, pl. I, fig. 4.—1927. *Columbella (Atilia) pumila* DUNKER: YOKOYAMA, Moll. Tokyo [etc.], p. 412, pl. XLVI, fig. 10.

Fossil occurrence.—Tabata. Ecology.—P 22-39, J -40<sub>+</sub>. N<sub>0-1</sub>. R, gS. Shôriuki (P 22) is the southern record and Asamushi (J 40) is the northern extension of this species.

Genus *Aesopus* GOULD, 1860

*Aesopus japonicus* GOULD コハナマツムシ .....Pl. 14, Fig. 6

1860. *Aesopus japonicus* GOULD, Proc. Boston Soc. Nat. Hist., vol. VII, p. 383.—1862. *Aesopus japonicus* GOULD: GOULD, Otia conch., p. 138.—1922. *Parviterebra raritans* YOKOYAMA, Foss. Kazusa Shimosa, p. 36, pl. I, fig. 25.—1964. *Aesopus japonicus* GOULD: JOHNSON, U.S. Nat. Mus., Bull. 239, p. 95, pl. 12, fig. 9 (holotype).

Fossil occurrence.—Ôtake. Ecology.—P 26-34.

Familia Buccinidae

Genus *Beringius* DALL, 1879

Subgenus *Japelion* DALL, 1918

*Beringius (Japelion) adelphicus* (DALL) ツムガタネジボラ .....Pl. 12, Figs. 8, 13

1907. *Chrysodomus adelphicus* DALL, Smiths. Misc. Coll., vol. 50, no. 2, p. 155, unfigd.—1920. *Chrysodomus schrencki* YOKOYAMA, Foss. Miura [etc.], pp. 51-52, pl. III, figs. 1a-k.—1922. *Chrysodomus schrencki* YOKOYAMA, Foss. Kazusa Shimosa, p. 54, pl. II, fig. 13.—1925. *Chrysodomus (Sulcosipho?) adelphicus* DALL: DALL, Proc. U.S. Nat. Mus., vol. 66, art. 17, p. 9, pl. 35, fig. 8.

Fossil occurrence.—Koshiha and Shitô. Ecology.—P 33-35. N<sub>1</sub>. mfS.

Remark.—This species is characterized by more or less strongly striated sculpture especially on the younger whorls and by the shallowest nitche of this genus.

Genus *Neptunea* [RÖDING], 1798

Subgenus *Barbitonia* DALL, 1916

*Neptunea (Barbitonia) arthritica* (BERNARDI) ヒメエゾボラ .....Pl. 13, Figs. 9, 12

1857. *Fusns arthriticus* BERNARDI: Jour. Conchyliol., Tom. VI [Sér. 2, Tom. II], pp. 386-387, pl. XII, figs. 3, 3a.—1920. *Siphonalia dilatata* (QUOY [& GAIMARD]): YOKOYAMA, Foss. Miura [etc.], pp. 52-53, pl. II, fig. 12.—1922. *Chrysodomus arthriticus* [-a] (VALENCIENNES) BERNARDI: YOKOYAMA, Foss. Kazusa Shimosa, pp. 53-54, pl. II, fig. 12.

Fossil occurrence.—Shimo-Miyata and Ôtake. Ecology.—P 35-45, J 40-46. N<sub>1</sub>. R.

Subgenus *Neptunea* s. str.

*Neptunea (Neptunea) yokoyamai* OYAMA ヨコヤマエゾボラ .....Pl. 13, Figs. 2, 4, 7

1920. *Chrysodomus phoeniceus* [-a] DALL: YOKOYAMA, Foss. Miura [etc.], pp. 50-51, pl. II, figs. 8-10.—1954. *Neptunea yokoyamai* OYAMA in TAKI & OYAMA, Plioc. & later Faunas, p. 21, pl. II, figs. 8-10.

Fossil occurrence.—Koshiha. Ecology.—Unknown.

Remark.—This species seems to be allied to *Neptunea kuroshio* OYAMA (syn. *Chrysodomus intersculpta* var. *minor* HIRASE (non *Neptunea minor* LINK, 1807)), but the former has subequal spiral cords only, while the latter is provided with strong distant cords alternated with several finer ones.

Genus *Siphonalia* ADAMS (A.), 1863

*Siphonalia trochulus tokaiensis* KIRA アラボリミオツクシ .....Pl. 12, Fig. 1

[1846. *Buccinum trochulus* REEVE, Conch. Icon., vol. III, *Buccinum* sp. 7, pl. II, fig. 7].—  
1920. *Siphonalia stearnsii* PILSBRY (pars): YOKOYAMA, Foss. Miura [etc.], pp. 54-55, pl.  
III, figs. 4a-b (non fig. 3).—1959. *Siphonalia trochulus tokaiensis* KIRA, Venus, vol. 20,  
no. 4, pp. 339-340, text-fig. 2.

Fossil occurrence.—Naganuma. Ecology.—P 34. N<sub>1</sub>. S. This subspecies has been reported  
from Enshû-nada to Kawasaki in Gulf of Suruga.

*Siphonalia fusoides* (REEVE) トウイト .....Pl. 12, Figs. 2, 3, 10, 12, 14

1846. *Buccinum Fusoides* REEVE, Conch. Icon., vol. III, *Buccinum*, sp. 9, pl. II, fig. 9 (non sp.  
64, pl. IX, fig. 64).—1920. *Siphonalia trochulus* REEVE: YOKOYAMA, Foss. Miura [etc.],  
p. 54, pl. II, fig. 14.—1920. *Siphonalia stearnsii* PILSBRY (pars): YOKOYAMA, Id., pp.  
54-55, pl. III, fig. 3 (non fig. 4).—1922. *Siphonalia trochulus* REEVE (pars): YOKOYAMA,  
Foss. Kazusa Shimosa, p. 56, pl. II, figs. 15, 16, 18 (not 17).

Fossil occurrence.—Naganuma, Shitô and Ôtake. Ecology.—P 26+41, J 32-38. N<sub>1-2</sub>. mS, sM.

*Siphonalia cassidariaeformis* (REEVE) ミクリガイ .....Pl. 12, Fig. 5

1846. *Buccinum cassidariaeforme* REEVE, Conch. Icon., vol. III, *Buccinum*, sp. 11, pl. II, fig. 11.  
—1922. *Siphonalia trochulus* REEVE: YOKOYAMA, Foss. Kazusa Shimosa, p. 56, pl. II,  
fig. 17 (not 15, 16, 18).

Fossil occurrence.—Shitô. Ecology.—P 31-35, J -41. N<sub>1-2</sub>. S, mS.

*Siphonalia spadicea* (REEVE) マユツクリ .....Pl. 12, Figs. 4, 6, 11

1846. *Buccinum Fusoides* REEVE, Conch. Icon., vol. III, *Buccinum*, sp. 64, pl. IX, fig. 64 (non  
sp. 9, pl. II, fig. 9).—1847. *Buccinum spadiceum* REEVE, Id., Index & Errata, new name  
for *B. Fusoides* (sp. 64) non *B. Fusoides* (sp. 9).—1920. *Siphonalia spadicea* (REEVE)  
(pars): YOKOYAMA, Foss. Miura [etc.], p. 53, pl. III, figs. 9, 10 (not figs. 8, 11).—  
1920. *Siphonalia fuscolineata* PEASE: YOKOYAMA, Foss. Miura [etc.], p. 54, pl. II, fig. 15.

Fossil occurrence.—Shimo-Miyata, Ôtsu and Naganuma. Ecology.—P 33-39, J 33+43+. N<sub>4</sub>  
S, mS, sM, M.

*Siphonalia modificata* (REEVE) セコボラ .....Pl. 12, Fig. 9

1846. *Buccinum modificata* REEVE, Conch. Icon., vol. III, *Buccinum*, sp. 67, pl. IX, fig. 67.—  
1920. *Siphonalia spadicea* (REEVE) (pars): YOKOYAMA, Foss. Miura [etc.], p. 53, pl. III,  
fig. 11 (not figs. 8-10).

Fossil occurrence.—Motowada. Ecology.—P 33-35, J 33+36. N<sub>3</sub>. fs, mS.

*Siphonalia mikado* MELVILL ミカドミクリ .....Pl. 12, Fig. 7

1888. *Siphonalia mikado* MELVILL, Jour. Conch., vol. V, p. 348, text-fig.—1920. *Siphonalia*  
*spadicea* (REEVE) (pars): YOKOYAMA, Foss. Miura [etc.], p. 53, pl. III, fig. 8 (not figs.  
9-11).

Fossil occurrence.—Shimo-Miyata. Ecology.—P 33-35. N<sub>3</sub>. fs.

Genus *Hindsia* ADAMS (A.), [1851]Subgenus *Microfusus* DALL, 1916

*Hindsia (Microfusus) obesiformis* (YOKOYAMA) ムサシノヒメニシ .....Pl. 14, Fig. 22

1920. *Sipho obesiformis* YOKOYAMA, Foss. Miura [etc.], p. 52, pl. II, figs. 13a-b.  
Fossil occurrence.—Naganuma.

Genus *Enzinopsis* IREDALE, 1940

*Enzinopsis menkeana* (DUNKER) ゴマフホラダマシ .....Pl. 13, Fig. 3

1860. *Cantharus (Pollia) Menkeanus* DUNKER, Malacoz. Bl., Bd. VI (1859), pp. 222-223.—

1861. *Cantharus menkeanus* DKR.: DUNKER, Moll. Japon., pp. 7-8, pl. I, fig. 7.—1924.

*Engina acnumiata* (REEVE): YOKOYAMA, Moll. Coral-Bed, p. 14, pl. I, fig. 3.

Fossil occurrence.—Numa. Ecology.—P -0-35, J -41+. N<sub>1</sub>. R. The northernmost record is Tsugaru Strait (J 41) by my own material.

Genus *Searlesia* HARMER, 1915

*Searlesia fuscolabiata* (SMITH (E. A.)) トバイソニナ .....Pl. 13, Fig. 5

1860. *Fusus modestus* GOULD, Proc. Boston Soc. Nat. Hist., vol. VII, p. 327, non *Fusus modestus* ANTON in PHILIPPI, 1844.—1862. *Fusus modestus* GOULD: GOULD, Otia conch., p. 124.

—1875. *Euthria fuscolabiata* SMITH (E.A.), Am. Mag. Nat. Hist., ser. 4, vol. XV, no. 90, pp. 421-422.—1922. *Fusus coreanicus* SMITH: YOKOYAMA, Foss. Kazusa Shimosa, p. 52, pl. II, fig. 10.—1964. *Fusus modestus* GOULD: JOHNSON, U.S. Nat. Mus., Bull. 239, p. 111, pl. 6, fig. 5 (lectotype).

Fossil occurrence.—Shitô. Ecology.—P 38-42, J 35?-41.

Remark.—The name *Searlesia modesta* GOULD has been used for replaced fairly widely applied name *S. fuscolabiata* SMITH. Since *Fusus modestus* GOULD is a junior homonym of *F. modestus* ANTON, *S. fuscolabiata* should be used again for this species.

Genus *Babylonia* SCHLÜTER, 1838

*Babylonia japonica* (REEVE) バイ .....Pl. 13, Fig. 8

1843. *Eburna japonica* REEVE, Proc. Zool. Soc. London, Pt. X (1842), p. CXIX, p. 200.—

1849. *Eburna japonica* REEVE: REEVE, Conch. Icon., vol. V, *Eburna*, sp. 3, pl. I, fig. 3.

—1922. *Eburna japonica* REEVE: YOKOYAMA, Foss. Kazusa Shimosa, pp. 57-58, pl. II, fig. 20.

Fossil occurrence.—Ôtake. Ecology.—P 25-35, J -42. N<sub>1</sub>. S, mS.

Genus *Pisania* BIVONA, 1832Subgenus *Japeuthria* IREDALE, 1918

*Pisania (Japeuthria) ferrea* (REEVE) イソニナ .....Pl. 14, Fig. 14

1847. *Buccinum ferreum* REEVE, Conch. Icon., vol. III, *Buccinum*, sp. 102, pl. XIII, fig. 102.—

1924. *Euthria ferrea* (REEVE): YOKOYAMA, Moll. Coral-Bed, p. 12, pl. V, fig. 17.

Fossil occurrence.—Numa. Ecology.—P 30-35, J -36. N<sub>0</sub>. R. Lower tidal surface of rocky shore.

Genus *Buccinum* LINNAEUS, 1758

*Buccinum leucostoma* LISCHKE スルガバイ .....Pl. 13, Fig. 1

1872. *Buccinum leucostoma* LISCHKE, Malacoz. Bl., Bd. XIX, p. 101.—1874. *Buccinum leucostoma* LISCHKE: LISCHKE, Japan. Meer.-Conch., Bd. III, pp. 38-39, pl. I, figs. 7, 8.—  
1920. *Buccinum leucostoma* LISCHKE: YOKOYAMA, Foss. Miura [etc.], p. 55, pl. II, fig. 11.

Fossil occurrence.—Nojima. Ecology.—P 33-35. B<sub>2</sub>. S, mfS.

Remark.—The name *B. leucostoma* was incorrectly applied for *B. isaotakii* KIRA by previous authors.

Genus *Volutharpa* FISCHER (P.), 1856

*Volutharpa perryi* (JAY) モスソガイ .....Pl. 13, Figs. 6, 10

1857. *Bulla perryi* JAY, Narr. Exped. China Sea and Japan, vol. II, p. 295, pl. V, figs. 13-15.  
—1920. *Volutharpa perryi* JAY: YOKOYAMA, Foss. Miura [etc.], pp. 55-57, pl. III, fig. 12.—  
*Volutharpa perryi* JAY: YOKOYAMA, Foss. Kazusa Shimosa, p. 57, pl. II, fig. 19.

Fossil occurrence.—Shimo-Miyata and Shitô. Ecology.—P 33-35, J -57. N<sub>1</sub>. mS, sM.

## Familis Nassariidae

Genus *Tritia* RISSO, 1826Subgenus *Reticunassa* IREDALE, 1936

*Tritia (Reticunassa) japonica* (ADAMS (A.)) var. キヌボラ .....Pl. 14, Fig. 17

- [1852. *Nassa japonica* ADAMS (A.), Proc. Zool. Soc. London, vol. XVIII, 1850, no. CCXXV, p. 110].—1920. *Nassa (Hima) japonica* A. ADAMS: YOKOYAMA, Foss. Miura [etc.], pp. 56-57, pl. III, figs. 5a-b.

Fossil occurrence.—Yokosuka. Ecology.—P 25-39, J -40. N<sub>1</sub>. S.

Subgenus *Tritonella* ADAMS (H.) & ADAMS (A.), 1853

*Tritia (Tritonella) fuscolineata* (SMITH (E. A.)) フカボリヒメムシロ ....Pl. 14, Fig. 18

1875. *Nassa fuscolineata* SMITH (E.A.), Ann. Mag. Nat. Hist., ser. 4, vol. XV, no. 90, pp. 423-424.—1922. *Nassa (Hima) fraterculus* DUNKER: YOKOYAMA, Foss. Kazusa Shimosa, p. 59, pl. II, fig. 21.

Fossil occurrence.—Ôtake. Ecology.—P 35. N<sub>1</sub>.

*Tritia (Tritonella)* sp. ....Pl. 14, Fig. 13

1920. *Nassa (Hima) festiva* POWIS: YOKOYAMA, Foss. Miura [etc.], pp. 57-58, pl. III, figs. 6a-b.

Fossil occurrence.—Kami-Miyata. Ecology.—Unknown.

Remark.—This species resembles *T. (Tritonella) luteola* (SMITH (E.A.)) in general features, but is distinguished by a quite dissimilar sculpture.

Genus *Nassarius* DUMÉRIL, 1806Subgenus *Zeuxis* ADAMS (H.) & ADAMS (A.), 1853

*Nassarius (Zeuxis) caelatus* (ADAMS (A.)) ハナムシロ .....Pl. 14, Fig. 21



1852. *Nassa caelata* ADAMS (A.), Proc. Zool. Soc. London, pt. XIX (1851), no. CCXXV, p. 97.  
 —1853. *Nassa caelata* A. ADAMS: REEVE, Conch. Icon., vol. VIII, *Nassa*, sp. 133, pl.  
 20, fig. 133.—1920. *Nassa* (*Niotha*) *livescens* PHILIPPI: YOKOYAMA, Foss. Miura [etc.],  
 pp. 58-59, pl. III, figs. 18a, b.  
 Fossil occurrence.—Shimo-Miyata. Ecology.—P -0-35, J -41. N<sub>1-4</sub>. mS, sM.

Familia Fasciolaridae

Genus *Fusinus* RAFINESQUE, 1815

*Fusinus perplexus* (ADAMS (A.)) ナガニシ .....Pl. 14. Figs. 26, 28

1864. *Fusus perplexus* ADAMS (A.), Jour. Linn. Soc., Zool., vol. VII, p. 106.—1920. *Fusus perplexus* REEVE: YOKOYAMA, Foss. Miura [etc.], p. 50, pl. II, fig. 17.—1927. *Fusus nodosoplicatus* DUNKER: YOKOYAMA, Moll. Tokyo [etc.], p. 412, pl. XLVI, fig. 14.  
 Fossil occurrence.—Naganuma and Shinagawa. Ecology.—P 31-42, J -42. N<sub>(0)1-2</sub>. S, fS.

*Fusinus* [*tuberosus* subsp.?] *nigrirostratus* (SMITH (E. A.))

ツノマタガイ .....Pl. 14, Fig. 30

- [? 1847. *Fusus tuberosus* REEVE, Conch. Icon., vol. IV, *Fusus*, sp. 7, pl. II, fig. 7].—1879.  
*Fusus nigrirostratus* SMITH (E.A.), Proc. Zool. Soc. London, 1879, no. XIII, pl. XX, fig.  
 33.—1927. *Fusus nigrirostratus* SMITH: YOKOYAMA, Moll. Tokyo [etc.], p. 412, pl. XLVI,  
 fig. 21.

Fossil occurrence.—Shinagawa. Ecology.—P 33-35, J 33+ -37. N<sub>0-1</sub>. R, S.

Subgenus *Trophonofusus* KURODA & HABE, 1971

*Fusinus* (*Trophonofusus*) *muricatoides* (YOKOYAMA) フツツカナガニシ..Pl. 14. Fig. 25

1920. *Trophon muricatoides* YOKOYAMA, Foss. Miura [etc.], pp. 61-62, pl. III, figs. 17a-b.  
 Fossil occurrence.—Kami-Miyata. Ecology.—P 35+. N<sub>3</sub>. S. This species has been collected  
 from Sagami Bay (P 35).

Genus *Granulifusus* KURODA & HABE, 1954

*Granulifusus musasiensis* (MAKIYAMA) ムサシノアラレナガニシ .....Pl. 14. Fig. 29

1922. *Fusus niponicus* SMITH: YOKOYAMA, Foss. Kazusa Shimosa, pp. 52-53, pl. II, figs. 11,  
 11a.—1922. *Fusinus niponicus musasiensis* MAKIYAMA, Jour. Geol. Soc. Tokyo, vol.  
 XXIX, no. 343, p. 168 (164-168).  
 Fossil occurrence.—Shitô. Ecology.—[N<sub>3-4</sub>]. [S].

*Granulifusus makiyamai* (OTUKA) マキヤマアラレナガニシ .....Pl. 14. Fig. 27

1920. *Fusus niponicus* SMITH: YOKOYAMA, Foss. Miura [etc.], pp. 49-50, pl. II, fig. 7.—1937.  
*Fusinus makiyamai* OTUKA, Bull. Earthquake Res. Inst., Tokyo Imp. Univ., vol. XV, pt.  
 4, p. 1021, new name for *Fusus niponicus* SMITH sensu YOKOYAMA, 1920.  
 Fossil occurrence.—Shimo-Miyata. Ecology.—[N<sub>3-4</sub>]. [S].

## Superfamilia Volutacea

## Familia Olividae

Genus *Ancilla* LAMARCK, 1799Subgenus *Baryspira* FISCHER (P.), 1883

*Ancilla (Baryspira) hinomotoensis* YOKOYAMA ヒノモトボタル .....Pl. 14, Fig. 15

1922. *Ancilla hinomotoensis* YOKOYAMA, Foss. Kazusa Shimosa, p. 48, pl. II, fig. 5.  
Fossil occurrence.—Shitô.

Genus *Olivella* SWAINSON, 1831

*Olivella japonica* (STEARNS) PILSBRY ホタルガイ .....Pl. 14, Fig. 16

1895. [*Olivella fortunei* (AD.) MARRATT] var. *japonica* STEARNS: PILSBRY, Cat. Mar. Moll. Japan, p. 23, pl. II, fig. 11.—1922. *Olivella fortunei* ADAMS: YOKOYAMA, Foss. Kazusa Shimosa, p. 47, pl. II, figs. 3, 3a.

Fossil occurrence.—Shisui. Ecology.—P 31-39, J -40. N<sub>1</sub>. S.

*Olivella spretooides* YOKOYAMA ワタゾコボタル .....Pl. 14, Fig. 10

1922. *Olivella spretooides* YOKOYAMA, Foss. Kazusa Shimosa, pp. 47-48, pl. II, fig. 4.  
Fossil occurrence.—Shitô. Ecology.—P 26+-35, J -42+. N<sub>3</sub>. S. This species is determined to range from western Okinawa Islands (P 26) to Sagami Bay (P 35) and Kumaishi (J 42) by my material.

## Familia Mitridae

? Genus *Microvoluta* ANGAS, 1877

*Microvoluta hondana* (YOKOYAMA) コビトオトメ .....Pl. 14, Figs. 19, 20

1922. *Mitra hondana* YOKOYAMA, Foss. Kazusa Shimosa, pp. 50-51, pl. II, fig. 8.—1922. *Mitra pirula* YOKOYAMA, Id., p. 51, pl. II, fig. 9.

Fossil occurrence.—Shitô. Ecology.—P 35. N<sub>3</sub>. S.

Genus *Pusia* SWAINSON, 1831

*Pusia emmae* (YOKOYAMA) エマオトメフデ .....Pl. 14, Fig. 8

1920. *Mitra (Costellaria) emmae* YOKOYAMA, Foss. Miura [etc.], p. 49, pl. VI, figs. 4a, b.  
Fossil occurrence.—Shimo-Miyata. Ecology.—Unknown.

Genus *Mitra* LAMARCK, 1798Subgenus *Vicimitra* IREDALE, 1929

*Mitra (Vicimitra) cosibensis* OTUKA コンバフデ .....Pl. 14, Fig. 23

1920. *Mitra ebenus* LAMARCK: YOKOYAMA, Foss. Miura [etc.], p. 47, pl. II, figs. 4a-b.—1937. *Mitra cosibensis* OTUKA, Bull. Earthquake Res. Inst., Tokyo Imp. Univ., vol. XV, pt. 4, p. 1020, new name for *Mitra ebenus* LAMARCK sensu YOKOYAMA.

Fossil occurrence.—Koshiba. Ecology.—Unknown.

- Mitra (Vicimitra) kurakiensis* HATAI & NISIYAMA クラキフデ .....Pl. 14. Fig. 24  
 1920. *Mitra fusiformis* BROCCHI: YOKOYAMA, Foss. Miura [etc.], pp. 47-48, pl. 11, figs. 6a-b.  
 —1952. *Mitra kurakiensis* HATAI & NISIYAMA, Sci. Rep. Tôhoku Univ., ser. 2, spec.  
 vol. 3, p. 215, new name for *Mitra fusiformis* BROCCHI sensu YOKOYAMA.  
 Fossil occurrence.—Koshiha. Ecology.—P 35.

#### Familia Volutidae

Genus *Fulgoraria* SCHUMACHER, 1817

Subgenus *Psephaea* CROSSE, 1871

- Fulgoraria (Psephaea) kamakurensis* OTUKA .....Pl. 13. Fig. 11  
 1920. *Voluta megaspira* SOWERBY: YOKOYAMA, Foss. Miura [etc.], p. 46, pl. 11, figs. 18a, b.  
 —1949. *Fulgoraria (Psephaea) kamakurensis* OTUKA, Japan. Jour. Geol. Geogr., vol.  
 XXI, nos. 1-4, p. 304, pl. XIII, fig. 7.  
 Fossil occurrence.—Koshiha. Ecology.—Unknown.  
 Remark.—The classification of SHIKAMA, 1967, is not accepted in this paper.

#### Familia Turbinellidae

Genus *Benthovoluta* KURODA & HABE, 1950

- Benthovoluta hilgendorfi* (V. MARTENS) ツノキフデ .....Pl. 13. Fig. 13  
 1897. *Voluta Hilgendorfi* V. MARTENS, Arch. f. Naturgesch., Jahrg. 1897, Bd. 1, H. 2, p. 176,  
 pl. XVII, fig. 1.—1920. *Mitra plicifera* YOKOYAMA, Foss. Miura [etc.], pp. 48-49, pl.  
 II, figs. 16a, b.  
 Fossil occurrence.—Koshiha. Ecology.—P 33-35. B<sub>2</sub>.

#### Familia Cancellariidae

Genus *Cancellaria* LAMARCK, 1799

Subgenus *Sydaphera* IREDALE, 1929

- Cancellaria (Sydaphera) spengleriana* DESHAYES コロモガイ .....Pl. 15. Figs. 18-20  
 1830. *Cancellaria spengleriana* DESHAYES, Ency. Méth. (Vers), Tom. II (1), p. 185 (fide SHER-  
 BORN, 1900).—1920. *Cancellaria spengleriana* DESHAYES: YOKOYAMA, Foss. Miura [etc.],  
 p. 44, pl. II, figs. 2a-b, 3a-b.—1922. *Cancellaria asprella* LAMARCK var. *reeveana* CROSSE:  
 YOKOYAMA, Foss. Kazusa Shimosa, p. 46, pl. II, fig. 2.  
 Fossil occurrence.—Naganuma, Ôtsu and Ôtake. Ecology.—P -0-39, J -40. N<sub>1-2</sub>. S, mS.

Subgenus *Habesolatia* KURODA, 1965

- Cancellaria (Habesolatia) nodulifera* SOWERBY トカシオリイレ .....Pl. 15. Fig. 15  
 1825. *Cancellaria nodulifera* SOWERBY (G.B. I), Catal. Shells Tankerville, app. pp. xv-xvi.—  
 1849. *Cancellaria nodulifera* SOWERBY: SOWERBY (G.B. II), Thes. Conch., vol. II, pts.  
 9-10, p. 440, pl. XCIV, fig. 57.—1922. *Cancellaria nodulifera* SOWERBY: YOKOYAMA,  
 Foss. Kazusa Shimosa, pp. 45-46, pl. II, fig. 1.  
 Fossil occurrence.—Shitô. Ecology.—P 31-39, J -40. N<sub>1</sub>. S.

Genus *Admete* KRÖYER, 1842

*Admete cancellata* (OTUKA) .....Pl. 15, Fig. 17

1920. *Admete viridula* FABRICIUS: YOKOYAMA, Foss. Miura [etc.], pp. 45-46, pl. II, fig. 5.—  
1937. *Lora cancellata* OTUKA, Bull. Earthquake Res. Inst., Tokyo Imp. Univ., vol. XV,  
pt. 4, p. 1020, new name for *Admete viridula* FABRICIUS sensu YOKOYAMA (non *Pleuro-*  
*toma cancellata* MIGHELS).—1954. *Admete yokoyamai* OYAMA in TAKI & OYAMA, Plioc.  
& later Faunas, p. 24, pl. 3, fig. 5.

Fossil occurrence.—Koshiha. Ecology.—Unknown.

Remark.—When we revised original specimens of Prof. YOKOYAMA, I introduced a new specific name *Admete yokoyamai* for this species. There was an earlier name *Lora cancellata* OTUKA for the same species, but I believed that OTUKA's name was preoccupied by "*Lora cancellata*" (MIGHELS and ADAMS, 1884). According to the modern Code of the zoological nomenclature, OTUKA's name is available for this species.

## Familia Marginellidae

Genus *Crithe* GOULD, 1860

*Crithe cotamago* (YOKOYAMA) コタマゴコゴメガイ .....Pl. 16, Figs. 18, 19

1922. *Marginella cotamago* YOKOYAMA, Foss. Kazusa Shimosa, p. 49, pl. II, figs. 6, 6a.—  
1922. *Marginella perovulum* YOKOYAMA, Id., p. 49, pl. II, figs. 7, 7a.

Fossil occurrence.—Shitô. Ecology.—P 27-35, J 34+36+. This species ranges from Yamaguchi Prefecture (J 34) to Fukui Prefecture (J 36) along Tsushima Current according to HABE.

## Superfamilia Conacea

## Familia Turridae

## Subfamilia Turrinae

Genus *Elaeocyma* DALL, 1919Subgenus *Splendrillia* HEDLEY, 1922

*Elaeocyma (Splendrillia) braunsi* (YOKOYAMA)

リンドウクダマキ (ブラウンスツノクダマキ) .....Pl. 15, Fig. 16

1920. *Pleurotoma (Drillia) braunsi* YOKOYAMA, Foss. Miura [etc.], pp. 40-41, pl. I, figs. 25a-c.  
Fossil occurrence.—Koshiha. Ecology.—P 34-35. N<sub>3</sub>. S.

Subgenus *Elaeocyma* s. str.

*Elaeocyma (Elaeocyma) benten* (YOKOYAMA) ベンテンモミジボラ .....Pl. 15, Fig. 3

1920. *Pleurotoma (Drillia) benten* YOKOYAMA, Foss. Miura [etc.], p. 40, pl. I, figs. 23a-b.

Fossil occurrence.—Naganuma. Ecology.—P 34-35. N<sub>3</sub>. mS.

Remark.—TAKI & OYAMA, 1954, made a mistake in their explanation of Plate 2: figure 22 should be read as figure 23.

*Elaeocyma (Elaeocyma) glabriuscula* (YOKOYAMA) ミガキヒメモミジボラ ..Pl. 15, Fig. 4

1922. *Drillia glabriuscula* YOKOYAMA, Foss. Kazusa Shimosa, pp. 40-41, pl. I, figs. 31, 31a.

Fossil occurrence.—Shitô. Ecology.—J 36.

(forma *brevis* YOKOYAMA).....Pl. 15, Fig. 2

1922. *Drillia glabriuscula* var. *brevis* YOKOYAMA, Foss. Kazusa Shimosa, p. 41, pl. 1, figs. 32, 32a.

Fossil occurrence.—Shitô. Ecology.—Unknown.

#### Genus *Paradrillia* MAKIYAMA, 1940

*Paradrillia nivalioides* (YOKOYAMA) ニバヒメシャジク .....Pl. 15, Fig. 5

1920. *Pleurotoma (Drillia) nivalioides* YOKOYAMA, Foss. Miura [etc.], pp. 39-40, pl. 1, figs. 27a-b.—1936. *Clavatula consimilis* (SMITH) (pars): SUZUKI & ICHIMURA, Jour. Geol. Soc. Japan, vol. XLIII, no. 516, pp. 721-722, pl. 40, fig. 12 (not fig. 6-11).

Fossil occurrence.—Koshihira. Ecology.—P 38-41, J -41.

Remark.—*Paradrillia inconstans* (SMITH (E.A.)) is very close to, but shorter than the present form, and the relationship between the two forms is to be worked out.

#### Genus *Pseudoetrema* OYAMA, 1953

*Pseudoetrema fortilirata* (SMITH (E. A.)) ホソシャジク .....Pl. 15, Fig. 1

1879. *Drillia fortilirata* SMITH (E.A.), Proc. Zool. Soc. London, 1879, no. XIII, p. 194, pl. XIX, fig. 22.—1927. *Drillia fortilirata* SMITH: YOKOYAMA, Moll. Tokyo [etc.], p. 410, pl. XLVI, fig. 20.

Fossil occurrence.—Ôji. Ecology.—P 31-38, J -42. N<sub>1-2</sub>. S, fS, mS.

#### Genus *Haedropleura* BUCQUOY, DAUTZENBERG & DOLLFUS, 1883

*Haedropleura fukuchiana* (YOKOYAMA) フクチチビシャジク .....Pl. 15, Fig. 6

1922. *Mangilia fukuchiana* YOKOYAMA, Foss. Kazusa Shimosa, p. 42, pl. 1, figs. 34, 34a.

Fossil occurrence.—Ôtake.

#### Genus *Horaiclavus* OYAMA, 1954

*Horaiclavus shitoensis* OYAMA シトウイグチ.....Pl. 15, Fig. 7

1922. *Mangilia ojiensis* TOKUNAGA: YOKOYAMA, Foss. Kazusa Shimosa, pp. 41-42, pl. 1, figs. 33, 33a.—1954. *Horaiclavus shitoensis* OYAMA in TAKI & OYAMA, Plioc. & later Faunas, p. 25, pl. 21, figs. 33, 33a, new name for *Mangilia ojiensis* TOKUNAGA sensu YOKOYAMA.

Fossil occurrence.—Shitô. Ecology.—P 35+. N<sub>3</sub>. S.

#### Genus *Inquisitor* HEDLEY, 1918

*Inquisitor jeffreysii* (SMITH (E. A.)) モミジボラ.....Pl. 15, Fig. 8

1875. *Drillia jeffreysii* SMITH (E.A.), Ann. Mag. Nat. Hist., ser. 4, vol. XV, no. 90, p. 413.—1895. *Drillia principalis* PILSBRY, Catal. Mar. Moll. Japan, p. 17, pl. II, fig. 9, 10.

—1920. *Pleurotoma (Drillia) principalis* PILSBRY: YOKOYAMA, Foss. Miura [etc.], pp. 36-37, pl. 1, figs. 20a-b.

Fossil occurrence.—Naganuma. Ecology.—P 33-42, J 32+-41. The occurrence from Amakusa Island (P 32) is the known southernmost record.

*Inquisitor cosibensis* (YOKOYAMA).....Pl. 15, Fig. 14

1920. *Pleurotoma (Drillia) cosibensis* YOKOYAMA, Foss. Miura [etc.], pp. 38-39, pl. 1, figs. 26a-b.

Fossil occurrence.—Koshihira. Ecology.—[P 35].

Remark.—Lectotype is missing. Paralectotype (Reg. no. CM 20074) belong to a group of *Inquisitor takeokaensis* (OTUKA), although the original illustration seems to suggest either *Clathurella* CARPENTER, 1857, (see p. 54), or *Mammillaedrillia* KURODA et OYAMA, 1971, in its outline.

#### Genus *Crassispira* SWAINSON, 1840

*Crassispira pseudoprincipalis* (YOKOYAMA) ホソウネモミジボラ .....Pl. 15, Fig. 12

1920. *Pleurotoma (Drillia) pseudoprincipalis* YOKOYAMA, Foss. Miura [etc.], p. 37, pl. 1, figs. 21a-c.

Fossil occurrence.—Naganuma. Ecology.—Unknown.

#### Genus *Comitas* FINLAY, 1926

"*Comitas*" *yokoyamai* (OYAMA) ヨコヤマチビクダマキ .....Pl. 15, Fig. 9

1920. *Pleurotoma kamakurana* PILSBRY: YOKOYAMA, Foss. Miura [etc.], pp. 35-36, pl. 1, figs. 17a-b.—1954. "*Cryptogemma*" *yokoyamai* OYAMA in TAKI & OYAMA, Plioc. & later Faunas, p. 24, pl. 2, figs. 17a-b [new name for *Pleurotoma kamakurana* PILSBRY sensu YOKOYAMA].

Fossil occurrence.—Koshihira. Ecology.—Unknown.

#### Genus *Belaturricula* POWELL, 1951

Syn. *Benthodaphne* OYAMA, 1962

*Belaturricula glabra* (YOKOYAMA) モチハダイグチ .....Pl. 15, Fig. 13

1920. *Pleurotoma (Bela ?) glabra* YOKOYAMA, Foss. Miura [etc.], p. 43, pl. 11, figs. 1a-c.

Fossil occurrence.—Koshihira. Ecology.—Known living species comes from 500 fathoms off Philippines and 160 meters off South Georgia. *Belaturricula turricula* (STREBEL), an Antarctic form, is similar *Belaturricula dissimilis* (WATSON) from off the Philippines, but it has broader anterior part. The fossil from Koshihira is close to *B. dissimilis*, and those who would attempt to separate the forms of Antarctic and Philippines, may use the name *Benthodaphne* for *B. dissimilis* and *B. glabra*.

#### Genus *Aforia* DALL, 1889

*Aforia nojimensis* (YOKOYAMA).....Pl. 15, Fig. 11

1920. *Pleurotoma (Surcula ?) nojimensis* YOKOYAMA, Foss. Miura [etc.], pp. 42-43, pl. 1, figs. 19a-b.

Fossil occurrence.—Nojima. Ecology.—Unknown.

Genus *Lophiotoma* CASEY, 1904Subgenus *Lophioturris* POWELL, 1964

*Lophiotoma (Lophioturris) leucotropis* (ADAMS & REEVE) クダマキガイ..Pl. 15. Fig. 10

1850. *Pleurotoma leucotropis* ADAMS & REEVE, Zool. Voy. "Samarang", (6) Moll., p. 40, pl. X, fig. 7.—1927. *Pleurotoma oxytropis* SOWERBY: YOKOYAMA, Moll. Tokyo [etc.], pp. 409-410, pl. XLVI, fig. 7.

Fossil occurrence.—Shinagawa. Ecology.—P 22-35, J -38. fS, mS. N<sub>1-2</sub>.

Genus *Riuguhdrillia* OYAMA, 1951

*Riuguhdrillia (engonia* subsp.?) *mediocarinata* (YOKOYAMA)

ナガカドクダマキ .....Pl. 16, Fig. 2

[1881. *Pleurotoma (Genota) engonia* WATSON, Jour. Linn. Soc. London, Zool., vol. XV, p. 450].—  
[1886. *Pleurotoma (Genota) engonia* WATSON: Challenger Rep., Zool., vol. XV, pp. 300-301, pl. XX, fig. 7].—1920. *Pleurotoma medicarinata* YOKOYAMA, Foss. Miura [etc.], p. 36, pl. I, figs. 18a-b.

Fossil occurrence.—Nojima. Ecology.—Supported to be a bathyal element from a closest form, *R. engonia* (WATSON).

Genus *Suavodrillia* DALL, 1918

*Suavodrillia declivis* (v. MARTENS) トガリクダマキ.....Pl. 16. Fig. 1

1880. *Pleurotoma declivis* v. MARTENS, Conch. Mitth., Bd. I, H. 3, pp. 39-41, pl. IX, figs. 2a, b.—1922. *Pleurotoma vertebrata* SMITH: YOKOYAMA, Foss. Kazusa Shimosa, p. 37, pl. I, figs. 26, 26a.

Fossil occurrence.—Shitô. Ecology.—P 38-46, J 36-46. The occurrence from Kii Channel (P 34) is excluded, and Miyagi Prefecture (P 38) is considered as the southernmost element, because I separate *Pleurotoma difficilis* SMITH from this species.

Genus *Tomopleura* CASEY, 1904

*Tomopleura quantoana* (YOKOYAMA).....Pl. 16. Fig. 3

1920. *Pleurotoma (Drillia) quantoana* YOKOYAMA, Foss. Miura [etc.], p. 38, pl. I, fig. 22.

Fossil occurrence.—Naganuma.

Remark.—Type specimen is lost. The relationship between this species and *T. nvea* (PHILIPPI) should be carefully revised by topotype.

## Subfamilia Mangeliinae

Genus *Ophiodermella* BARTSCH, 1844

*Ophiodermella miyatensis* (YOKOYAMA) ミヤタクチナワマンシ .....Pl. 16. Figs. 6, 14

1920. *Pleurotoma (Mangilia) miyatensis* YOKOYAMA, Foss. Miura [etc.], p. 42, pl. V, figs. 2a, b.—1922. *Genotia pseudopannus* var. *sematensis* YOKOYAMA, Foss. Kazusa Shimosa, p. (37-)38, pl. I, fig. 28.

Fossil occurrence.—Shimo-Miyata and Shitô. Ecology.—P 39-46, J 35-46.

*Ophiidermella* [*miyatensis* YOKOYAMA var.?] *pseudopannus* (YOKOYAMA)

ボロクチナワマンジ .....Pl. 16, Fig. 5

[1920. *Pleurotoma* (*Mangilia*) *miyatensis* YOKOYAMA, loc. cit. (preceeding species)].—1922. *Genotia pseudopannus* YOKOYAMA, Foss. Kazusa Shimosa, pp. 37-38, pl. I, fig. 27.

Fossil occurrence.—Ôtake. Ecology.—Unknown.

Remark.—This form differs from the preceeding one by lacking distinct spiral cords, though the shell is fairly eroded.

*Ophiidermella ogurana* (YOKOYAMA) オグラクチナワマンジ .....Pl. 16, Fig. 101922. *Genotia ogurana* YOKOYAMA, Foss. Kazusa Shimosa, pp. 38-39, pl. I, figs. 29, 29a.

Fossil occurrence.—Ôtake. Ecology.—Unknown.

Genus *Oenopota* MÖRCH, 1852“*Oenopota*” *nipponica* (YOKOYAMA) .....Pl. 16, Fig. 171922. *Sipho* (*Parasipho*) *nipponicus* YOKOYAMA, Foss. Kazusa Shimosa, p. 55, pl. II, fig. 14.

Fossil occurrence.—Ôtake. Ecology.—Unknown.

Genus *Propebela* IREDALE, 1918*Propebela yokoyamai* (ONOYAMA) ヨコヤマニヨリマンジ .....Pl. 16, Fig. 71922. *Bela rugulata* TROSCHEL var. *schneideri* HARMER: YOKOYAMA, Foss. Kazusa Shimosa, p. 44, pl. I, fig. 37.—1933. *Lora yokoyamai* ONOYAMA, Chikyu (The Globe), vol. XIX, no. 4, pp. 253(9), 271(27), 274(30), new name for *Bela rugulata schneideri* HARMER sensu YOKOYAMA.

Fossil occurrence.—Ôtake. Ecology.—P 42+–45?, J 36-45.

Genus *Mangilia* RISSO, 1826Subgenus *Guraleus* HEDLEY, 1918*Mangilia* (*Guraleus*) *tabatensis* (TOKUNAGA)

タバタマンジ (タバタイトカケマンジ) .....Pl. 16, Fig. 8

1906. *Pleurotoma* (*Drillia*) *tabatensis* TOKUNAGA, Foss. Env. Tokyo, p. 15, pl. I, fig. 27.—1927. *Mangilia tabatensis* (TOKUNAGA): YOKOYAMA, Moll. Tokyo [etc.], p. 410, pl. XLVI, fig. 11.

Fossil occurrence.—Dôkanyama. Ecology.—P 34-35, J -37.

*Mangilia* (*Guraleus*) *tokunagae* (FINLAY)

ヤセマンジ (ヒメイトカケマンジ) .....Pl. 16, Fig. 9

1906. *Pleurotoma* (*Mangilia*) *parva* TOKUNAGA, Foss. Env. Tokyo, p. 16. [Non *Pleurotoma parva* CONRAD, 1830, nor *P. (Drillia) parva* SMITH (E.A.), 1888].—1927. *Mangilia parva* (TOKUNAGA): YOKOYAMA, Moll. Tokyo [etc.], p. 411, pl. XLVI, fig. 12.—1927. *Inquisitor* (?) *tokunagae* FINLAY, Trans. Proc. New Zealand Inst., vol. 57, p. 517, new name for *Pleurotoma (Drillia) parva* TOKUNAGA, 1906, non *Pleurotoma (Drillia) parva* SMITH, 1888.

Fossil occurrence.—Ôji.



Genus *Paraclathurella* BÖTTGER, 1895

*Paraclathurella gracilenta* (REEVE) ヌノメツブ .....Pl. 16, Fig. 11

1843. *Pleurotoma gracilenta* REEVE, Conch. Icon., vol. I, *Pleurotoma*, sp. 114, pl. XIV, fig. 114.  
—1927. *Mangilia gracilenta* (REEVE): YOKOYAMA, Moll. Tokyo, p. 411, pl. XLVI, fig. 13.

Fossil occurrence.—Ôji. Ecology.—P -0-35, J -40+. N<sub>1-3</sub>. S, mS. ISHIYAMA collected this species from Asamushi (J 40) which is to be considered as its northern limit.

Genus *Lyromangelia* MONTEROSATO, 1917

*Lyromangelia semicarinata* (PILSBRY) カタカドマンジ .....Pl. 16, Fig. 4

1904. *Mangilia semicarinata* PILSBRY, Proc. Acad. Nat. Sci. Philadelphia, 1904, [pt. of Jan.], p. 9, pl. II, figs. 16, 16a.—1920. *Pleurotoma (Mangilia) deshayesii* DUNKER: YOKOYAMA, Foss. Miura [etc.], pp. 41-42, pl. I, figs. 24a-c.

Fossil occurrence.—Koshiha. Ecology.—P 26-35, J -33+. N<sub>1</sub>. [R]. The occurrence in Hakata Bay (J 33) is included herein.

Genus *Clathurella* CARPENTER, 1857Subgenus *Etremopa* OYAMA, 1955

*Clathurella (Etremopa) subauriformis* (SMITH (E. A.)) ヌノメシャジク ..Pl. 16, Fig. 15

1879. *Drillia subauriformis* SMITH (E.A.), Proc. Zool. Soc. London, 1879, no. XIII, p. 195, pl. XIX, fig. 23.—1922. *Drillia subauriformis* SMITH: YOKOYAMA, Foss. Kazusa Shimosa, p. 40, pl. I, figs. 30, 30a.

Fossil occurrence.—Kamenari. Ecology.—P 31-39, J -41. N<sub>1</sub>. S.

Genus *Rubellatoma* BARTSCH & REHDER, 1939

*Rubellatoma longispira* (SMITH (E. A.))

モリシマコトツブ (ヤセシャジク) .....Pl. 16, Fig. 16

1879. *Drillia longispira* SMITH (E.A.), Proc. Zool. Soc. London, 1879, no. XII, pp. 190-191, pl. XIX, fig. 14.—1922. *Mangilia (Cythara) rugoso-labiata* YOKOYAMA, Foss. Kazusa Shimosa, pp. 42-43, pl. I, figs. 35, 35a.

Fossil occurrence.—Ôtake. Ecology.—P 33-39, J 32+-36. N<sub>1</sub>. [S]. The occurrence from Amakusa Islands (J 32) is the southernmost record of this species.

Genus *Ithycythara* WOODRING, 1928

*Ithycythara oywana* (YOKOYAMA) キバコトツブ .....Pl. 16, Fig. 12

1922. *Mangilia (Cythara) oywana* YOKOYAMA, Foss. Kazusa Shimosa, pp. 43-44, pl. I, fig. 36.

Fossil occurrence.—Shisui. Ecology.—P 33-35+, J 33+-37. N<sub>1</sub>. [S]. This species occurs in Sagami Bay (P 35) and Genkai-Nada (J 33), which are included in the range.

Genus *Asperdaphne* HEDLEY, 1922

*Asperdaphne reticostulata* (YOKOYAMA) シマククリコトツブ .....Pl. 16, Fig. 13

1922. *Bela reticostulata* YOKOYAMA, Foss. Kazusa Shimosa, pp. 44-45, pl. I, figs. 38, 38a.  
Fossil occurrence.—Shitô. Ecology.—Unknown.

### Genus *Clathromangelia* MONTEROSATO, 1884

*Clathromangelia leuckarti* (DUNKER) クレイロマンジ .....Pl. 16, Fig. 23

1860. *Mangilia Leuckarti* DUNKER, Malacoz. Bl., Bd. VI (1859), p. 228.—1861. *Mangilia Leuckarti* DKR.: DUNKER, Moll. Japon., p. 2, pl. I, fig. 1.—1924. *Clathurella centrosa* PILSBRY: YOKOYAMA, Moll. Coral-Bed, pp. 11-12, pl. V, fig. 15.

Fossil occurrence.—Numa. Ecology.—P 31-39, J -40. N<sub>1</sub>. R.

### Familia Conidae

#### Genus *Conus* LINNAEUS, 1758

##### Subgenus *Endemoconus* REDALE, 1931

*Conus (Endemoconus) sieboldi* REEVE アコメガイ .....Pl. 16, Fig. 20

1848. *Conus sieboldii* REEVE, Conch. Icon., vol. XVI, *Conus*, sp. 269, suppl. pl. I, fig. 269.—  
1920. *Conus sieboldi* REEVE: YOKOYAMA, Foss. Miura [etc.], p. 34, pl. I, fig. 14.

Fossil occurrence.—Koshiha. Ecology.—P 31-35.

##### Subgenus *Parviconus* COTTON & GODFREY, 1932

*Conus (Parviconus) tuberculatus* TOMLIN ミウライモガイ .....Pl. 16, Figs. 21, 22

1920. *Conus tuberculatus* YOKOYAMA, Foss. Miura [etc.], pp. 34-35, pl. I, figs. 15a-b, 16a-c  
(non *Conus tuberculatus* DUJARDIN, 1837).—1937. *Conus tuberculatus* TOMLIN, Proc.  
Malac. Soc. London, vol. XXII, pt. IV, p. 206, new name for *Conus tuberculatus* YOKO-  
YAMA, non DUJARDIN.

Fossil occurrence.—Koshiha. Ecology.—P 32-35. N<sub>3</sub>. S.

### Familia Terebridae

#### Genus *Hastulopsis* OYAMA, 1961

*Hastulopsis melanacme* (SMITH (E. A.)) シラネタケ .....Pl. 17, Fig. 7

1875. *Terebra melanacme* SMITH (E.A.), Ann. Mag. Nat. Hist., ser. 4, vol. XV, no. 90, p. 415.  
—1922. *Terebra gotoensis* SMITH: YOKOYAMA, Foss. Kazusa Shimosa, p. 31, pl. I, figs.  
18, 18a.—1954. *Myurella* sp. TAKI & OYAMA, Plioc. & later Faunas, p. 27, pl. 21, fig. 18.

Fossil occurrence.—Ôtake. Ecology.—P 31-35<sup>+</sup>, J -33. N<sub>1</sub>. S. The occurrence in Choshi (P 35) is correct, but the record from Yamagata Prefecture is not accepted, as it is derived from misidentification.

#### Genus *Noditerebra* COSSMANN, 1896

##### Subgenus *Noditerebra* s. str.

*Noditerebra (Noditerebra) recticostata* (YOKOYAMA) スグウネトクサ.....Pl. 17, Fig. 2

1920. *Terebra recticostata* YOKOYAMA, Foss. Miura [etc.], p. 32, pl. I, figs. 11a, b.

Fossil occurrence.—Naganuma. Ecology.—P 34<sup>+</sup>-35, J 34<sup>+</sup>. N<sub>2-3</sub>. mS. This species occurs in Enshû-Nada (P 34) and off Yamaguchi Prefecture (J 34), but the range seems to become

wider by the revision of so-called "*Terebra evoluta* DESAAYES".

Remark.—The present species differs from *N. (N.) evoluta* by having shorter whorls and lacking a groove on the adapical margin of the subsutural band. It is also similar to *N. (N.) kirai* OYAMA in general appearance, but in that species the axial ribs have granules at the intersection of delicate spiral threads.

*Noditerebra (Noditerebra) evoluta latisulcata* (YOKOYAMA)

ヒロウネトクサ .....Pl. 17, Figs. 4, 8

1922. *Terebra latisulcata* YOKOYAMA, Foss. Kazusa Shimosa, p. 34, pl. 1, figs. 23, 23a.—1922.

*Cerithiopsis nodosocostatus* [-a] YOKOYAMA, Id., p. 73, pl. III, fig. 14.

Fossil occurrence.—Shitô. Ecology.—P 34<sup>+</sup>-35<sup>+</sup>. N<sub>2</sub>. gS. This subspecies comes from Enshû-Nada (P 34) to Sagami Bay (P 35), but the range may become wider by the revision of so-called *Terebra evoluta* DESHAYES.

Subgenus *Pristiterebra* OYAMA, 1961

*Noditerebra (Pristiterebra) tsuboiana* (YOKOYAMA) コゲチャタケ....Pl. 17, Figs. 13-15

1922. *Terebra smithi* YOKOYAMA, Foss. Kazusa Shimosa, p. 33, pl. 1, fig. 21, (non *Terebra*

*smithi* MARTIN (K.), 1884).—1922. *Terebra tsuboiana* YOKOYAMA, Id., pp. 35-36, pl.

XIII, figs. 12, 13.—1954. *Myurella (Pristiterebra) bifrons* (HINDS): TAKI & OYAMA, Plioc. & later Faunas, p. 28, pl. 21, fig. 21; pl. 33, figs. 12, 13.

Fossil occurrence.—Kioroshi and Ôtake. Ecology.—P 35<sup>+</sup>-37<sup>+</sup>. N<sub>1</sub> [S]. This species has been collected from Sagami Bay (P 35) to Shiogama (P 37).

Remark.—This species had been considered as a synonym of "*Terebra*" *bifrons* HINDS, but OYAMA, 1971, separated it in his revisions of the family Terebridae.

*Noditerebra (Pristiterebra) suavidica* (YOKOYAMA).....Pl. 17, Fig. 10

1922. *Terebra suavidica* YOKOYAMA, Foss. Kazusa Shimosa, p. 35, pl. 1, fig. 24.

Fossil occurrence.—Shisui. Ecology.—P 34<sup>+</sup>-35. This species comes also from Izu Peninsula (P 34).

Genus *Laeviacus* OYAMA, 1961

*Laeviacus pustulosa* (SMITH (E. A.))

ホソコゲチャタケ (ヒメコゲチャタケ) .....Pl. 17, Fig. 16

1973. *Terebra granulosa* SMITH (E. A.), Ann. Mag. Nat. Hist., ser. 4, vol. XI, no. 64, p. 268,

non *T. granulosa* LAMARCK, 1822.—1879. *Terebra pustulosa* SMITH (E. A.), Proc. Zool.

Soc. London, 1879, no. XII, pp. (185-)186, new name for *T. granulosa* SMITH (E. A.).—

*Terebra chibana* YOKOYAMA, Foss. Kazusa Shimosa, pp. 32-33, pl. 1, fig. 20.

Fossil occurrence.—Ôtake. Ecology.—P 33-39. N<sub>2</sub>. mS.

Genus *Strioterebrum* SACCO, 1891

Subgenus *Strioterebrum* s. str.

*Strioterebrum (Strioterebrum) subtextile* (SMITH (E. A.)) シラタケ .....Pl. 17, Fig. 11

1879. *Terebra subtextilis* SMITH (E. A.), Proc. Zool. Soc. London, 1879, no. XII, p. 185, pl. XIX, fig. 3.—1927. *Terebra textilis* HINDS: YOKOYAMA, Moll. Tokyo [etc], p. 409, pl. XLVI,

fig. 9.

Fossil occurrence.—Shinagawa. Ecology.—P -0-35, J -33+. N<sub>1-2</sub>. S. This species has been reported from Fukuoka Prefecture (J 33), which is the northern record along Tsushima Current.

Subgenus *Cinguloterebra* OYAMA, 1961

*Strioterebra (Cinguloterebra) hedleyanum* (PILSBRY) シロコニクタケ . . . Pl. 17, Fig. 9

1904. *Terebra hedleyi* PILSBRY, Proc. Acad. Nat. Sci. Philadelphia, 1904, [pt. of Jan.], p. 3, pl. 1, figs. 1, 1a.—1905. *Terebra hedleyana* PILSBRY, Proc. Acad. Nat. Sci. Philadelphia, 1905, p. 101. (new name for *Terebra hedleyi* PILSBRY, 1904, non TATE, 1901).—1922. *Terebra hedleyi* PILSBRY: YOKOYAMA, Foss. Kazusa Shimosa, pp. 31-32, pl. 1, figs. 19, 19a, 19b.

Fossil occurrence.—Ôtake. Ecology.—P 31-35, J -38+. N<sub>2</sub>. fS. Yamagata Prefecture (J 38) is the northern limit along Tsushima Current.

*Strioterebra (Cinguloterebra) hedleyanum quadriaratum* (YOKOYAMA).. Pl. 17, Fig. 6

1922. *Terebra quadriarata* YOKOYAMA, Foss. Kazusa Shimosa, p. 34, pl. 1, figs. 22, 22a.  
Fossil occurrence.—Shitô. Ecology.—P 34+, J 32+. N<sub>2</sub>. mfS.

*Strioterebra (Cinguloterebra) naumanni* (YOKOYAMA)

ナウマンヒメキリガイ . . . . . Pl. 17, Fig. 5

1920. *Terebra naumanni* YOKOYAMA, Foss. Miura [etc.], pp. 32-33, pl. 1, fig. 12.

Fossil occurrence.—Naganuma. Ecology.—[P -0-35, J -36].

Remark.—The relationship between this form and *S. (C.) serotina* (ADAMS & REEVE) is to be worked out.

Genus *Punctoterebra* BARTSCH, 1923Subgenus *Brevimyurella* OYAMA, 1961

*Punctoterebra (Brevimyurella) lischkeana* (DUNKER) var. ヒメトクサ . . . Pl. 17, Fig. 3

1877. *Terebra Lischkeana* DUNKER, Malacoz. Bl., Bd. XXIV, p. 74.—1882. *Terebra Lischkeana* DKR.: DUNKER, Index Moll. Mar. Japon., pp. 71-72, pl. V, figs. 13-16.—1920. *Terebra lischkeana* DUNKER: YOKOYAMA, Foss. Miura [etc.], pp. 31-32, pl. 1, figs. 10a-c.

Fossil occurrence.—Kami-Miyata. Ecology.—P 30<sup>+</sup>-39, J -39<sup>+</sup>. N<sub>1</sub>. fS.

Remark.—The illustrated fossil specimen is not typical in its feature of the body whorl, but in other characters such as colouration and sculpture it is indistinguishable from the indicated species.

Subgenus *Granuliterebra* OYAMA, 1961

*Punctoterebra (Granuliterebra) bathyrhaphe* (SMITH (E. A.))

イボヒメトクサ . . . . . Pl. 17, Fig. 12

1875. *Terebra (Myurella) bathyrhaphe* SMITH (E. A.), Ann. Mag. Nat. Hist., ser. 4, vol. XV, no. 90, p. 415.—1886. *Terebra bathyrhaphe* E. A. SMITH: WATSON, Challenger Rep., Zool., vol. XV, pt. XLII, p. 377, pl. XIV, fig. 9.—1927. *Terebra edoensis* YOKOYAMA, Moll. Tokyo [etc.], p. 409, pl. XLVI, fig. 8.

Fossil occurrence.—Kuruma-chô. Ecology.—P 22+–36, J -41. N<sub>1-2</sub>. fS. Kaohsiung (P 22) is the southernmost record of this species.

*Punctoterebra (Granuliterebra) tokunagai* (YOKOYAMA).....Pl. 17, Fig. 1

1970. *Terebra tokunagai* YOKOYAMA, Foss. Miura [etc.], pp. 33–34, pl. I, fig. 13a, 13b.

Fossil occurrence.—Naganuma. Ecology.—P 35\*. This species has been collected from Choshi fish market (P 35), but its ecology is uncertain.

Subclassis Euthyneura

Ordo Entomotaenia

Superfamilia Pyramidellacea

Familia Pyramidellidae

Genus *Chrysallida* CARPENTER, 1857

Subgenus *Besla* DALL & BARTSCH, 1904

*Chrysallida (Besla) bicinctella* (YOKOYAMA) フタスジクチキレ .....Pl. 18, Fig. 12

1927. *Odostomia (Besla) bicinctella* YOKOYAMA, Moll. Tokyo [etc.], p. 422, pl. XLVII, fig. 17.  
Fossil occurrence.—Dôkanyama.

Subgenus *Chrysallida* s. str.

*Chrysallida (Chrysallida) shibana* (YOKOYAMA) シバヨロイクチキレ ....Pl. 18, Fig. 18

1927. *Odostomia (Besla) shibana* YOKOYAMA, Moll. Tokyo [etc.], p. 422, pl. XLVII, fig. 13.  
Fossil occurrence.—Kuruma-chô. Ecology.—Unknown.

Subgenus *Salassiella* DALL & BARTSCH, 1909

*Chrysallida (Salassiella)* sp. ....Pl. 18, Fig. 19

1920. *Odostomia (Parthenia) takinogawensis* TOKUNAGA: YOKOYAMA, Foss. Miura [etc.], p. 82,  
pl. V, figs. 10a, b.  
Fossil occurrence.—Naganuma.

Subgenus *Salassia* FOLIN, 1870

*Chrysallida (Salassia) manzakiana* (YOKOYAMA) オリイレクチキレ .....Pl. 18, Fig. 6

1922. *Rissoina (Moerchiella) manzakiana* YOKOYAMA, Foss. Kazusa Shimosa, pp. 79–80, pl. IV,  
fig. 4.

Fossil occurrence.—Ôtake. Ecology.—Unknown.

Subgenus *Partulida* SCHAUFUSS, 1869

*Chrysallida (Partulida) marielloides* (YOKOYAMA) サキヒダクチキレ ....Pl. 18, Fig. 1

1922. *Odostomia (Egilina) marielloides* YOKOYAMA, Foss. Kazusa Shimosa, p. 100, pl. IV, fig. 34.  
Fossil occurrence.—Shisui. Ecology.—P 35.

Genus *Miralda* A. ADAMS, 1864Subgenus *Miralda* s. str.

- Miralda (Miralda) gemma* (ADAMS (A.)) ホソアラレクチキレ .....Pl. 18, Fig. 13
1861. *Chrysalida gemma* ADAMS (A.), Ann. Mag. Nat. Hist., ser. 3, vol. VIII, no. 46, pp. 302-303.—1906. *Odostomia (Miralda) gemma* A. ADAMS: DALL & BARTSCH, Proc. U. S. Nat. Mus., vol. XXX, no. 1452, pp. 356-357, pl. XXII, fig. 1.—1924. *Odostomia (Miralda) gemma* (A. ADAMS): YOKOYAMA, Moll. Coral-Bed, p. 30, pl. V, fig. 16.
- Fossil occurrence.—Numa. Ecology.—P 33-35.

Subgenus *Evalina* DALL & BARTSCH, 1904

- Miralda (Evalina) nishiana* (YOKOYAMA) ホソスジクチキレ.....Pl. 18, Fig. 2
1927. *Odostomia (Menestho) nishiana* YOKOYAMA, Moll. Tokyo [etc.], pp. 421-422, pl. XLVII, fig. 14.
- Fossil occurrence.—Ôji. Ecology.—Unknown.

Genus *Kleinella* ADAMS (A.), 1860

- Kleinella neofelix* (YOKOYAMA) メグミクチキレ.....Pl. 18, Fig. 11
1922. *Odostomia (Odetta) neofelix* YOKOYAMA, Foss. Kazusa Shimosa, p. 99, pl. IV, fig. 33.
- Fossil occurrence.—Tega. Ecology.—P ?

- Kleinella amicalis* (YOKOYAMA) ハオリクチキレ.....Pl. 17, Fig. 29
1927. *Odostomia (Iolaea) amicalis* YOKOYAMA, Moll. Tokyo [etc.], p. 421, pl. XLVII, fig. 18.
- Fossil occurrence.—Ôji. Ecology.—P 35-39, J 32<sup>+</sup>-37. N<sub>1</sub>. [S]. Amakusa Islands (J 32) is the southernmost record of this species.

Genus *Leucotina* ADAMS (A.), 1860

- Leucotina gigantea* (DUNKER) マキギヌ.....Pl. 17, Fig. 20
1877. *Odostomia gigantea* DUNKER, Malacoz. Bl., Bd. XXIV, p. 71.—1882. *Actaeon giganteus* DKR.: DUNKER, Index Moll. Mar. Japon., pp. 160, 260, pl. II, figs. 8, 9, [corrected A. *Dianae* A. ADAMS in p. 260].—1922. *Leucotina gigantea* DUNKER: YOKOYAMA, Foss. Kazusa Shimosa, pp. 23-24, pl. I, fig. 3.
- Fossil occurrence.—Ôtake. Ecology.—P 32<sup>+</sup>-39, J 32<sup>+</sup>-36. N<sub>1-2</sub>. S. The southern limits are Kashiwajima (P 32) and Ariake Bay (J 32).

Genus *Actaeopyramis* FISCHER (P.), 1885

- Actaeopyramis eximia* (LISCHKE) ハナシクチキレ .....Pl. 17, Fig. 27
1872. *Monoptygma eximium* LISCHKE, Malacoz. Bl., Bd. XIX, p. 103.—1874. *Monoptygma eximia* LISCHKE: LISCHKE, Japan. Meer.-Conch., Bd. III, pp. 59-60, pl. III, figs. 4-6.—1922. *Pyramidella (Actaeopyramis) eximia* LISCHKE: YOKOYAMA, Foss. Kazusa Shimosa, pp. 94-95, pl. VI, fig. 1.
- Fossil occurrence.—Ôtake. Ecology.—P -0-35, J -39. N<sub>1-2</sub>. S.

*Actaeopyramis lectissimoides* (YOKOYAMA) .....Pl. 17, Fig. 33

1927. *Odostomia* (*Odetta*) *lectissimoides* YOKOYAMA, Moll. Tokyo [etc.], p. 421, pl. XLVII, fig. 12.

Fossil occurrence.—Kuruma-chô. Ecology.—Unknown.

Genus *Odostomia* FLEMING, 1813

Subgenus *Odostomia* s. str.

*Odostomia* (*Odostomia*) *fujitanu* YOKOYAMA フジタニクチキレモドキ.....Pl. 18, Fig. 16

1927. *Odostomia* (*Odostomia*) *fujitanii* YOKOYAMA, Moll. Tokyo [etc.], pp. 419-420, pl. XLVII, fig. 15.

Fossil occurrence.—Ôji. Ecology.—Unknown.

*Odostomia* (*Odostomia*) *limpida* DALL & BARTSCH .....Pl. 18, Fig. 8

1906. *Odostomia* (*Odostomia*) *limpida* DALL & BARTSCH, Proc. U.S. Nat. Mus., vol. XXX, no. 1452, pp. 364-365, pl. XXVI, fig. 7.—1922. *Odostomia limpida* DALL & BARTSCH: YOKOYAMA, Foss. Kazusa Shimosa, p. 96, pl. XIV, fig. 1.

Fossil occurrence.—Ôtake. Ecology.—P 35-41.

*Odostomia* (*Odostomia*) *hilgendorfi* CLESSIN オリイレクチキレモドキ.....Pl. 18, Fig. 4

1902. *Odostomia Hilgendorfi* CLESSIN in MARTINI *et al.*, Syst. Conch.-Cab., Bd. 1, Abt. 28, p. 119, pl. 28, fig. 5.—1906. *Odostomia* (*Odostomia*) *hilgendorfi* CLESSIN: DALL & BARTSCH, Proc. U.S. Nat. Mus., vol. XXX, no. 1452, p. 364, pl. XXIV, fig. 5.—1920. *Odostomia* (s. s.) *hilgendorfi* CLESSIN: YOKOYAMA, Foss. Miura [etc.], p. 81, pl. V, figs. 9a, b.

Fossil occurrence.—Naganuma. Ecology.—P 34-42, J 32<sup>+</sup>. N<sub>1</sub>. [S]. Amakusa (J 32) is a new record along Tsushima Current.

*Odostomia* (*Odostomia*) *sublimpida* YOKOYAMA .....Pl. 18, Fig. 14

1920. *Odostomia* (*Odostomia*) *sublimpida* YOKOYAMA, Foss. Miura [etc.], pp. 82-83, pl. V, fig. 13.

Fossil occurrence.—Ôkine. Ecology.—P 35-41.

*Odostomia* (*Odostomia*) *kizakiensis* YOKOYAMA .....Pl. 18, Fig. 21

1922. *Odostomia* (*Odostomia*) *kizakiensis* YOKOYAMA, Foss. Kazusa Shimosa, p. 97, pl. IV, fig. 29.

Fossil occurrence.—Tega. Ecology.—Unknown.

*Odostomia* (*Odostomia*) *suboxia* YOKOYAMA スズメクチキレモドキ.....Pl. 18, Fig. 10

1922. *Odostomia* (*Odostomia*) *suboxia* YOKOYAMA, Foss. Kazusa Shimosa, pp. 98-99, pl. IV, fig. 32.

Fossil occurrence.—Ôtake. Ecology.—Unknown.

*Odostomia* (*Odostomia*) *shimosensis* YOKOYAMA .....Pl. 18, Fig. 9

1922. *Odostomia* (*Odostomia*) *shimosensis* YOKOYAMA, Foss. Kazusa Shimosa, p. 96, pl. IV, fig. 32.

Fossil occurrence.—Ôtake. Ecology.—P 38. N<sub>1</sub>. [S].

*Odostomia (Odostomia) optata* YOKOYAMA ネガイクチキレモドキ .....Pl. 18, Fig. 7  
1927. *Odostomia (Odostomia) optata* YOKOYAMA, Moll. Tokyo [etc.], p. 420, pl. XLVII, fig. 11.  
Fossil occurrence.—Ôji. Ecology.—Unknown.

Subgenus *Evalea* ADAMS (A.), 1860

*Odostomia (Evalea) gordonis* YOKOYAMA ゴルドンクチキレモドキ.....Pl. 18, Fig. 5  
1922. *Odostomia (Odostomia) gordonis* YOKOYAMA, Foss. Kazusa Shimosa, p. 95, pl. IV, fig. 27.  
Fossil occurrence.—Ôtake. Ecology.—P ?

*Odostomia (Evalea) toneana* YOKOYAMA トネイオウクチキレモドキ ....Pl. 18, Fig. 15  
1922. *Odostomia (Odostomia) toneana* YOKOYAMA, Foss. Kazusa Shimosa, p. 98, pl. IV, fig. 31.  
Fossil occurrence.—Ôtake. Ecology.—Unknown.

*Odostomia (Evalea) sp.* .....Pl. 18, Fig. 22  
1922. *Odostomia desimana* DALL et BARTSCH: YOKOYAMA, Foss. Kazusa Shimosa, pp. 96-97,  
pl. V, fig. 7.  
Fossil occurrence.—Ôtake. Ecology.—Unknown.

Subgenus *Megastomia* MONTEROSATO, 1884

*Odostomia (Megastomia) rusticella* YOKOYAMA ヒロクチキレモドキ .....Pl. 18, Fig. 3  
1927. *Odostomia (Heida) rusticella* YOKOYAMA, Moll. western Shimosa [etc.], p. 453, pl. LI,  
fig. 10.  
Fossil occurrence.—Ichikawa. Ecology.—Unknown.

Genus *Agatha* ADAMS (A.), 1860

*Agatha brevis* (YOKOYAMA) ホソミガキクチキレ .....Pl. 17, Figs. 17, 31  
1922. *Pyramidella (Agatha) virgo* (ADAMS) var. *brevis* YOKOYAMA, Foss. Kazusa Shimosa, p.  
92, pl. V, fig. 3.—1922. *Odostomia (Odostomia) venusta* YOKOYAMA, Id., pp. 97-98, pl.  
IV, fig. 30.  
Fossil occurrence.—Ôtake and Shitô. Ecology.—P 35-38. N<sub>1</sub>. [S].

Genus *Syrnola* ADAMS (A.), 1860

Subgenus *Hoonsyrnola* NOMURA, 1938

*Syrnola (Hoonsyrnola) inturbida* (YOKOYAMA) ウチマキクチキレ.....Pl. 17, Fig. 30  
1927. *Pyramidella (Syrnola ?) inturbida* YOKOYAMA, Moll. Tokyo [etc.], p. 419, pl. XLVII,  
fig. 7.  
Fossil occurrence.—Ôji. Ecology.—P 34. N<sub>1</sub>. [S].



Subgenus *Syrnola* s. str.

*Syrnola* (*Syrnola*?) *cinnamomea* ADAMS (A.) var.

コゲチャチビクチキレ .....Pl. 17. Fig. 19

1863. *Elusa cinnamomea* ADAMS (A.), Proc. Zool. Soc. London, 1862, no. XV, pp. 237-238.—  
1922. *Pyramidella* (*Syrnola*) *cinnamomea* ADAMS: YOKOYAMA, Foss. Kazusa Shimosa, p.  
93, pl. V, fig. 2.

Fossil occurrence.—Ôtake. Ecology.—P 27-35, J -39. N<sub>1</sub>. S.

Subgenus *Colsyrnola* IREDALE, 1929

*Syrnola* (*Colsyrnola*) *toshimana* (YOKOYAMA) トシマホソクチキレ .....Pl. 17. Fig. 34

1927. *Pyramidella* (*Syrnola*) *toshimana* YOKOYAMA, Moll. Tokyo [etc.], p. 419, pl. XLVII,  
fig. 9.

Fossil occurrence.—Ôji. Ecology.—Unknown.

*Syrnola* (*Colsyrnola*?) *kurumana* (YOKOYAMA)

クルマチヨウホソクチキレ .....Pl. 17. Fig. 18

1927. *Turbanilla* (*Ptycheulimella*?) *kurumana* YOKOYAMA, Moll. Tokyo [etc.], p. 424, pl.  
XLVII, fig. 16.

Fossil occurrence.—Kuruma-chô. Ecology.—P 35. N<sub>1</sub>. [S].

Subgenus *Iphiana* DALL & BARTSCH, 1904

*Syrnola* (*Iphiana*) *mira* (YOKOYAMA) ミラヌノメクチキレ .....Pl. 17. Fig. 23

1922. *Pyramidella* (*Iphiana*) *mira* YOKOYAMA, Foss. Kazusa Shimosa, pp. 93-94, pl. IV, fig. 25.  
Fossil occurrence.—Shitô. Ecology.—P 35.

*Syrnola* (*Iphiana*) *siva* (YOKOYAMA) シバヌノメクチキレ .....Pl. 17, Fig. 21

1922. *Pyramidella* (*Iphiana*) *siva* YOKOYAMA, Foss. Kazusa Shimosa, p. 94, pl. IV, fig. 26.  
Fossil occurrence.—Shitô. Ecology.—Unknown.

Genus *Tiberia* MONTEROSATO, 1875Subgenus *Orinella* DALL & BARTSCH, 1904

*Tiberia* (*Orinella*) *ebarana* (YOKOYAMA) エバラクチキレ .....Pl. 17. Fig. 28

1927. *Pyramidella* (*Tiberia*) *ebarana* YOKOYAMA, Moll. Tokyo [etc.], pp. 418-419, pl. XLVII,  
fig. 6.

Fossil occurrence.—Shinagawa. Ecology.—P 33-35, J -36. N<sub>1-2</sub>. S.

*Tiberia* (*Orinella*) *pulchella* (ADAMS (A.)), クチキレガイ .....Pl. 17. Fig. 26

1854. *Obeliscus pulchellus* ADAMS (A.) in SOWERBY (G. B. II), Thes. Conch., vol. II, part 15  
p. 808, pl. CLXXI, fig. 20.—1922. *Pyramidella* (*Tiberia*) *pulchella* ADAMS: YOKORAMA,  
Foss. Kazusa Shimosa, pp. 91-92, pl. V, fig. 6.

Fossil occurrence.—Shitô. Ecology.—P 31-40, J -41. N<sub>1</sub>. S.

*Tiberia (Orinella) pseudopulchella* (YOKOYAMA)

ニヨリクチキレ (クチキレガイモドキ).....Pl. 17, Fig. 22

1920. *Pyramidella (Tiberia) pseudopulchella* YOKOYAMA, Foss. Miura [etc.], pp. 80-81, pl. V, fig. 11.

Fossil occurrence.—Naganuma. Ecology.—Unknown.

Genus *Ebala* LEACH, 1847Subgenus *Ebala* s. str.*Ebala (Ebala) obscura* (YOKOYAMA) ウスセトモノクチキレ.....Pl. 18, Fig. 201922. *Turbonilla (Careliopsis) obscura* YOKOYAMA, Foss. Kazusa Shimosa, p. 106, pl. V, figs. 15, 15a.

Fossil occurrence.—Shitô. Ecology.—Unknown.

*Ebala (Ebala) pagodula* (YOKOYAMA) ナガセトモノクチキレ.....Pl. 18, Fig. 271927. *Rissoina (?) pagodula* YOKOYAMA, Moll. Tokyo [etc.], p. 415, pl. XLVI, fig. 28.

Fossil occurrence.—Dôkanyama. P 34, J. 37.

Genus *Cingulina* ADAMS (A.), 1860Subgenus *Polyspirella* (CARPENTER) GOULD, 1861

Remarks.—When NOMURA, 1936\*, introduced a subgeneric name *Paracingulina* (or *Pseudocingulina*) with *C. triarata* PILSBRY as type, he regarded *Cingulina cingulata* (DUNKER) as the type-species of the genus *Cingulina* ADAMS (A.), 1860. NOMURA (1937) corrected the type-species as *Cingulina circinata* ADAMS (A.), accepting an advice from Dr. KURODA. In spite of the fact that the type-species of the genus *Cingulina* belongs to the same group as *Cingulina triarata*, the subgeneric name *Paracingulina* (or *Pseudocingulina*) has been applied for a group of *C. triarata*. Thus the group of *C. cingulata* or subgenus *Cingulina* s. str. sensu NOMURA, 1936, should be called *Polyspirella*.

*Cingulina (Polyspirella) cingulata* (DUNKER) ヨコイトカケギリ.....Pl. 17, Fig. 321860. *Turbonilla cingulata* DUNKER, Malacoz. Bl., Bd. VI (1859), p. 239.—1861. *Turbonilla cingulata* DKR.: DUNKER, Moll. Japon., p. 16, pl. I, fig. 10.—1927. *Turbonilla (Cingulina) cingulata* DUNKER: YOKOYAMA, Moll. Musashi [etc.], p. 453, pl. LI, fig. 6.Fossil occurrence.—Ichikawa. Ecology.—P 25-41, J -41. N<sub>1</sub>. S.Subgenus *Cingulina* s. str.(Syn. *Paracingulina* NOMURA, 1936; *Pseudocingulina* NOMURA, 1936)*Cingulina (Cingulina) triarata* PILSBRY ミスジヨコイトカケギリ.....Pl. 17, Fig. 251904. *Turbonilla (Cingulina) triarata* PILSBRY, Proc. Acad. Nat. Sci. Philadelphia, 1904, [pt. of Jap.], p. 31, pl. V, fig. 48.—1922. *Turbonilla (Cingulina) triarata* PILSBRY: YOKOYAMA, Foss. Kazusa Shimosa, pp. 105-106, pl. V, fig. 14.Fossil occurrence.—Shisui. Ecology.—P 33-39, J 32<sup>+</sup>-37. N<sub>1</sub>. S. Amakusa Islands (J 32) is southernmost record of this species.\* 1936. *Cingulina* (s. str.) sensu NOMURA, Saito Hô-on Kai Mus., Res. Bull., no. 5, p. 45.

- Cingulina (Cingulina) circinata* ADAMS (A.) イトマキシロギリ.....Pl. 17, Fig. 24  
 1860. *Cingulina circinata* ADAMS (A.), Ann. Mag. Nat. Hist., ser. 3, vol. VI, no. 36, p. 414.  
 —1920. *Turbonilla (Cingulina) adamsi* YOKOYAMA, Foss. Miura [etc.], p. 83, pl. V,  
 figs. 17a, b.  
 Fossil occurrence.—Naganuma. Ecology.—P 34-38, J -38. N<sub>1</sub>.

Genus *Turbonilla* RISSO, 1826

Subgenus *Chemnitzia* D'ORBIGNY, 1839

- Turbonilla (Chemnitzia) sematana* YOKOYAMA セマタイトカケギリ ....Pl. 18, Fig. 30  
 1922. *Turbonilla (Chemnitzia) sematana* YOKOYAMA, Foss. Kazusa Shimosa, pp. 103-104, pl.  
 IV, fig. 41.  
 Fossil occurrence.—Shitô. Ecology.—Unknown.
- Turbonilla (Chemnitzia) kidoensis* YOKOYAMA.....Pl. 18, Fig. 35  
 1922. *Turbonilla (Chemnitzia) kidoensis* YOKOYAMA, Foss. Kazusa Shimosa, p. 103, pl. IV, fig.  
 39.  
 Fossil occurrence.—Tega. Ecology.—P 35\*. Known only from Sagami Bay.
- Turbonilla (Chemnitzia) multigyrata* DUNKER シロイトカケギリ .....Pl. 18, Fig. 36  
 1882. *Turbonilla multigyrata* DUNKER, Index Moll. Mar. Japon., p. 79, pl. XIII, figs. 18-20.  
 —1927. *Turbonilla (Chemnitzia) multigyrata* DUNKER: YOKOYAMA, Moll. Tokyo [etc.],  
 p. 423, pl. XLVII, fig. 20.  
 Fossil occurrence.—Kuruma-chô. Ecology.—P 32+-40, J 32+-39. N<sub>1</sub>, S.
- Turbonilla (Chemnitzia) keiskeana* YOKOYAMA ケイスケイトカケギリ ..Pl. 18, Fig. 31  
 1927. *Turbonilla (Chemnitzia) keiskeana* YOKOYAMA, Moll. Tokyo [etc.], p. 423, pl. XLVII,  
 yg. 19.  
 Fossil occurrence.—Ôji. Ecology.—Unknown.
- Turbonilla (Chemnitzia) pseudocura* NOMURA .....Pl. 18, Fig. 26  
 1927. *Turbonilla (Chemnitzia) dunkeri* CLESSIN: YOKOYAMA, Moll. Tokyo [etc.], p. 423, pl.  
 XLVII, fig. 21.—1938. *Turbonilla* (s. s.) *pseudocura* NOMURA, Saito Hô-on Kai Mus.  
 Res. Bull. 16, pp. 28-29, pl. IV, figs. 32a, b.  
 Fossil occurrence.—Shinagawa. Ecology.—P 38. N<sub>1</sub>.
- Turbonilla (Chemnitzia) humilis* YOKOYAMA スジボソイトカケギリ ....Pl. 18, Fig. 39  
 1924. *Turbonilla humilis* YOKOYAMA, Moll. Coral-bed, pp. 30-31, pl. II, fig. 3.  
 Fossil occurrence.—Numa. Ecology.—Unknown.
- Turbonilla (Chemnitzia) subapproximata* YOKOYAMA  
 トモイトカケギリ (ニヨリイトカケギリモドキ).....Pl. 18, Fig. 25  
 1920. *Turbonilla (Chemnitzia) subapproximata* YOKOYAMA, Foss. Miura [etc.], pp. 83-84, pl. V,  
 figs. 16a, b.  
 Fossil occurrence.—Naganuma. Ecology.—Unknown.

Subgenus *Turbonilla* s. str.

*Turbonilla* (*Turbonilla*) *imbana* YOKOYAMA インバイトカケギリ .....Pl. 18, Fig. 34

1922. *Turbonilla* (*Chemnitzia*) *imbana* YOKOYAMA, Foss. Kazusa Shimosa, p. 101, pl. IV, fig. 35.  
Fossil occurrence.—Ôtake. Ecology.—P 35-38. [N<sub>1</sub>].

*Turbonilla* (*Turbonilla*) *edoensis* YOKOYAMA エドイトカケギリ .....Pl. 18, Fig. 32

1927. *Turbonilla* (*Chemnitzia*) *edoensis* YOKOYAMA, Moll. Tokyo [etc.], p. 424, pl. XLVII, fig. 24.

Fossil occurrence.—Kuruma-chô. Ecology.—P 34-38, J 33. N<sub>1</sub>. Funakoshi at Genkai-Nada (J 33) is a new record along Tsushima Current.

*Turbonilla* (*Turbonilla*) *teganumana* YOKOYAMA テガヌマイトカケギリ..Pl. 18, Fig. 17

1922. *Turbonilla* (*Chemnitzia*) *teganumana* YOKOYAMA, Foss. Kazusa Shimosa, p. 103, pl. IV, fig. 40.

Fossil occurrence.—Tega. Ecology.—P 35. N<sub>1</sub>.

Subgenus *Asmunda* DALL & BARTSCH, 1904

*Turbonilla* (*Asmunda*) *affectuosa* (YOKOYAMA) ヨコスジギリ .....Pl. 18, Fig. 24

1927. *Odostomia* (*Egilina*) *affectuosa* YOKOYAMA, Moll. Tokyo [etc.], p. 420, pl. XLVII, fig. 10.

Fossil occurrence.—Kuruma-chô. Ecology.—P 33-38, N<sub>1</sub>.

Subgenus *Ptycheulimella* SACCO, 1892

*Turbonilla* (*Ptycheulimella*?) *misella* YOKOYAMA ミカヅキイトカケギリ ..Pl. 6, Fig. 15

1922. *Turbonilla* (*Ptycheulimella*) *misella* YOKOYAMA, Foss. Kazusa Shimosa, p. 100, pl. IV, fig. 36.

Fossil occurrence.—Ôtake. Ecology.—P 35.

Subgenus *Strioturbonilla* SACCO, 1892

*Turbonilla* (*Strioturbonilla*) *pacifica* YOKOYAMA

タイヘイヨウイトカケギリ .....Pl. 18, Fig. 37

1922. *Turbonilla* (*Strioturbonilla*) *pacifica* YOKOYAMA, Foss. Kazusa Shimosa, p. 105, pl. V, fig. 13.

Fossil occurrence.—Shitô. Ecology.—P 35-41, J 40-41. N<sub>1</sub>.

Subgenus *Pyrgolampros* SACCO, 1892

*Turbonilla* (*Pyrgolampros*) *planicostata* YOKOYAMA .....Pl. 18, Fig. 28

1922. *Turbonilla* (*Pyrgolampros*) *planicostata* YOKOYAMA, Foss. Kazusa Shimosa, p. 104, pl. V, fig. 11.

Fossil occurrence.—Shisui. Ecology.—Unknown.

- Turbonilla (Pyrgolampros) subplanicostata* YOKOYAMA .....Pl. 18. Fig. 40  
 1927. *Turbonilla (Pyrgolampros) subplanicostata* YOKOYAMA, Moll. Tokyo [etc.], p. 425, pl. XLVII, fig. 23.  
 Fossil occurrence.—Ôji. Ecology.—Unknown.

Subgenus *Paramormula* NOMURA. 1939

- Turbonilla (Paramormula) paucicostulata* TOKUMAGA  
 フトスジイトカケギリ .....Pl. 18. Fig. 29  
 1906 *Turbonilla paucicostulata* TOKUNAGA, Foss. Env. Tokyo, p. 22.—1922. *Turbonilla (Mormula) paucicostulata* TOKUNAGA: YOKOYAMA, Foss. Kazusa Shimosa, pp. 101-102, pl. IV, fig. 37.  
 Fossil occurrence.—Shitô. Ecology.—P 38. N<sub>1</sub>.

- Turbonilla (Paramormula) scrobiculata* YOKOYAMA .....Pl. 18, Fig. 33  
 1922. *Turbonilla (Mormula?) scrobiculata* YOKOYAMA, Foss. Kazusa Shimosa, p. 102, pl. IV, fig. 38.  
 Fossil occurrence.—Ôtake. Ecology.—P 32+-35, J 33+-37. N<sub>1</sub>. Kashiwajima (P 32) and Hakata Bay (J 32) are the southernmost records of this species.

- Turbonilla (Paramormula) semicolorata* YOKOYAMA  
 ソメワケイトカケギリ .....Pl. 18, Fig. 38  
 1927. *Turbonilla (Mormula) semicolorata* YOKOYAMA, Moll. Tokyo [etc.], p. 424, pl. XLVII, fig. 22.  
 Fossil occurrence.—Kuruma-chô. Ecology.—Unknown.

- Turbonilla (Paramormula) tokunagai* YOKOYAMA  
 トクナガイトカケギリ .....Pl. 18. Fig. 23  
 1920 *Turbonilla (Mormula) tokunagai* YOKOYAMA, Foss. Miura [etc.], p. 84, pl. V, ngs. 18a, b.  
 Fossil occurrence.—Otsu. Ecology.—Unknown.

Subgenus *Pselliogyra* DALL & BARTSCH. 1909

- Turbonilla (Pselliogyra) sagamiana* YOKOYAMA  
 サガミマキミゾイトカケギリ (サガミタテヒダギリ).....Pl. 18, Fig. 42  
 1922. *Turbonilla (Strioturbonilla) sagamiana* YOKOYAMA, Foss. Kazusa Shimosa, pp. 104-105, pl. V, fig. 12.  
 Fossil occurrence.—Ôtake. Ecology.—P 35, J 32+. N<sub>1</sub>. sM, mS. This form has been reported from Amakusa (J 32) beside Sagami Bay.

Subgenus *Dunkeria* CARPENTER. 1857

- Turbonilla (Dunkeria) shigeyasui* YOKOYAMA カゴメイトカケギリ .....Pl. 18, Fig. 41  
 1927. *Turbonilla (Pyrgisculus) shigeyasui* YOKOYAMA, Moll. Tokyo [etc.], p. 425, pl. XLVII, fig. 26.

Fossil occurrence.—Dôkanyama. Ecology.—P 34-35, J 33+34+. [N<sub>0-1</sub>]. [mS]. The ranges along Tsushima Current are “J 33-34” by the occurrence off the north coast of Fukuoka Prefecture (Hakata Bay, Genkai-Nada and Hibiki-Nada) (J 33) and Onoda (J 34) in the western part of Seto-Naikai.

## Ordo Cephalaspidea

## Superfamilia Bullacea

## Familia Acteonidae

Genus *Acteon* MONTFORT, 1810Subgenus *Japanacteon* TAKI (Is.), 1956

*Acteon (Japanacteon) nipponensis* YAMAKAWA ムラクモキジビキガイ . . . Pl. 19, Fig. 1

1911. *Acteon tornatilis* LINNÉ, var. *nipponensis* YAMAKAWA, Jour. Geol. Soc. Tokyo, vol. XVIII, no, 211, pp. 39-40, pl. X, figs. 1-3.—1927. *Acteon tornatilis* (LINNÉ) var. *nipponensis* YAMAKAWA: YOKOYAMA, Moll. Tokyo [etc.], p. 406, pl. XLVI, fig. 1.—1954. *Acteon nipponensis* (YOKOYAMA) [sic. (YAMAKAWA)]: TAKI & OYAMA, Plioc. & later Faunas, p. 28, pl. 43, fig. 1.

Fossil occurrence.—Ôji. Ecology.—P 32-38, J 32+34. N<sub>1</sub>. sM. Amakusa (J 32) is the southern limit of this species along the Tsushima Current.

Genus *Solidula* FISCHER VON WALDHEIM, 1807Subgenus *Strigopupa* HABE, 1958

*Solidula (Strigopupa) strigosa* (GOULD) コシイノミガイ . . . . . Pl. 19, Fig. 5

1859. *Buccinulus strigosus* GOULD, Proc. Boston Soc. Nat. Hist., vol. VII, p. 141.—1862. *Buccinulus strigosus* GOULD: GOULD, Otia conch., p. 114.—1922. *Solidula strigosa* GOULD: YOKOYAMA, Foss. Kazusa Shimosa, p. 22, pl. I, figs. 1, 1a.—1964. *Buccinulus strigosus* GOULD: JOHNSON, U.S. Nat. Mus., Bull. 239, p. 154, pl. 20, fig. 1 (lectotype).

Fossil occurrence.—Ôtake. Ecology.—P 25-38, J -37. N<sub>1</sub>. S.

Subgenus *Solidula* s. str.

*Solidula (Solidula) clathrata* YOKOYAMA ヌノメカヤノミガイ . . . . . Pl. 19, Fig. 2

1922. *Solidula clathrata* YOKOYAMA, Foss. Kazusa Shimosa, p. 23, pl. I, fig. 2.

Fossil occurrence.—Shitô. Ecology.—Unknown.

## Familia Ringiculidae

Genus *Ringicula* DESHAYES in LAMARCK, 1838

*Ringicula doliaris* GOULD マメウラシマ . . . . . Pl. 19, Figs. 6-9

1860. *Ringicula doliaris* GOULD, Proc. Boston Soc. Nat. Hist., vol. VII, p. 325.—1862. *Ringicula doliaris* GOULD: GOULD, Otia conch., pp. 121-122.—1920. *Ringicula musashinoensis* YOKOYAMA, Foss. Miura [etc.], pp. 30-31, pl. I, figs. 3a, 3b, 8a, 8b.—1922. *Ringicula musashinoensis* YOKOYAMA: YOKOYAMA, Foss. Kazusa Shimosa, p. 30, pl. I, figs. 16, 17.—1944. *Ringicula doliaris* GOULD: YEN, Proc. Calif. Acad. Sci., ser. 4, vol. XXII, no. 38, p. 578, pl. 51, figs. 33, 36.—1964. *Ringicula doliaris* GOULD: JOHNSON, U.S. Nat. Mus., Bull. 239, p. 69, pl. 15, fig. 7 (holotype).

Fossil occurrence.—Naganuma, Shitô and Ôtake. Ecology.—P 31-42, J -42. N<sub>1-3</sub>. S, mS, sM.

### Familia Atyisidae

#### Genus *Cylichnatys* KURODA & HABE in HABE, 1954

##### *Cylichnatys angusta* (GOULD)

カミスジカイコガイ (カミスジカイコガイダマシ).....Pl. 19, Fig. 24

1859. *Haminea angusta* GOULD, Proc. Boston Soc. Nat. Hist., vol. VII, p. 139.—1862. *Haminea angusta* GOULD: GOULD, Otia conch., p. 111.—1911. *Bullinella striata* YAMAKAWA, Jour. Geol. Soc. Tokyo, vol. XVIII, no. 212, p. 51, pl. XI, figs. 37, 38.—1920. *Cylichna yamakawai* YOKOYAMA, Foss. Miura [etc.], p. 29, pl. I, figs. 7a-d.—1964. *Haminea angusta* GOULD: JOHNSON, U.S. Nat. Mus., Bull. 239, p. 41, pl. 5, fig. 1.

Fossil occurrence.—Yokosuka.

#### Genus *Haloa* PILSBRY, 1921

*Haloa rotundata* (ADAMS (A.)) ブドウガイ.....Pl. 19, Fig. 4

1850. *Bulla (Haminea) rotundata* ADAMS (A.) in SOWERBY (G. B. II), Thes. Conch., vol. II, pt. 11, pp. 583-584, pl. CXXIV, fig. 105.—1922. *Bulla ovula* SOWERBY: YOKOYAMA, Foss. Kazusa Shimosa, p. 29, pl. I, fig. 15.

Fossil occurrence.—Shisui. Ecology.—P 14-38, J -41+. N<sub>1</sub>. R. The northernmost record of this species is Shirikishinai (J 41) reported by HABE.

### Familia Retusidae

#### Genus *Retusa* BROWN (T.), 1827

##### Subgenus *Coleophysis* FISCHER (P.), 1883

*Retusa (Coleophysis) succincta* (ADAMS (A.)) ヘコミツララガイ.....Pl. 19, Fig. 25

1862. *Tornatina succincta* ADAMS (A.), Ann. Mag. Nat. Hist., ser. 3, vol. IX, no. 50, p. 154.—1927. *Retusa cucurbitina* YOKOYAMA, Moll. westn. Shimosa [etc.], pp. 449-450, pl. LI, fig. 4.

Fossil occurrence.—Koyasu. Ecology.—P 33+-41, J 32+-41, KJ -35. N<sub>1</sub>. mS, sM. The range of this species is extended by the records from Tosa Bay (P 33), Amakusa Islands (J 32) and Sôyô Station 477 (KJ 35).

*Retusa (Coleophysis) minima* YAMAKAWA ヒメコメツブガイ.....Pl. 19, Fig. 26

1911. *Retusa minima* YAMAKAWA, Jour. Geol. Soc. Tokyo, vol. XVIII, no. 212, p. 47, pl. XI, figs. 21-24.—1920. *Retusa minima* YAMAKAWA: YOKOYAMA, Foss. Miura [etc.], p. 26, pl. I, figs. 1a-c.

Fossil occurrence.—Naganuma. Ecology.—P 32+-39, J 32+-37. N<sub>1-3</sub>. S. The range is extended by the records from Sôyô Station 326 (P 32) and Amakusa Islands (J 32) by HABE.

*Retusa (Coleophysis) lineolata* YOKOYAMA ヨコスジヘコミツララ.....Pl. 19, Fig. 23

1924. *Retusa lineolata* YOKOYAMA, Moll. Coral-Bed, p. 11, pl. I, fig. 6.

Fossil occurrence.—Numa. Ecology.—Unknown.

Genus *Pyrunculus* PILSBRY, 1895

*Pyrunculus phialus* (ADAMS (A.)) シリプトカイコガイ .....Pl. 19, Fig. 3

1862. *Soa phiala* A. ADAMS, Ann. Mag. Nat. Hist., ser. 3, vol. IX, no. 50, p. 150.—1911. *Cylichna sibaensis* YAMAKAWA, Jour. Geol. Soc. Tokyo, vol. XVIII, no. 212, pp. 48-49, pl. XI, figs. 25-29.—1930. *Cylichna sibaensis* YAMAKAWA: YOKOYAMA, Foss. Miura [etc.], pp. 28-29, pl. 1, figs. 6a, 6b.—1961. *Pyrunculus phialus* (A. ADAMS): HABE, Prof. MAKIYAMA's mem. Vol., p. 202, pl. 4, figs. 5-7.

Fossil occurrence.—Kami-Miyata. Ecology.—P 31+43, J -40. N<sub>1-4</sub>, B. sM, mS. The southern limit (P 31) was recorded by Sōyō Stations by HABE.

Genus *Rhizorus* MONTFORT, 1810

*Rhizorus radiola* ADAMS (A.) アオモリマメヒガイ .....Pl. 19, Fig. 14

1862. *Volvula radiola* ADAMS (A.), Ann. Mag. Nat. Hist., ser. 3, vol. IX, no. 50, p. 155.—1954. *Volvulella radiola* (A. ADAMS): KURODA & HABE, Japan. Jour. Mal. [Venus], vol. 18, no. 1, pp. 9, 14, pl. 2, figs. 3, 4.—1920. *Volvula acuminata* BRUGUIÈRE: YOKOYAMA, Foss. Miura [etc.], pp. 26-27, pl. 1, figs. 2a-c.

Fossil occurrence.—Yokosuka. Ecology.—P 34-41, J -41.

*Rhizorus acutaeformis* (YOKOYAMA) タマゴマメヒガイ .....Pl. 19, Fig. 19

1922. *Volvula acutaeformis* YOKOYAMA, Foss. Kazusa Shimosa, pp. 26-27, pl. 1, fig. 9.

Fossil occurrence.—Shitō. Ecology.—P 31-42.

*Rhizorus cylindrellus* (ADAMS (A.)) .....Pl. 19, Fig. 13

1862. *Volvula cylindrella* ADAMS (A.), Ann. Mag. Nat. Hist., ser. 3, vol. IX, no. 50, p. 155.—1922. *Volvula angustata* (A. ADAMS) var.: YOKOYAMA, Foss. Kazusa Shimosa, p. 26, pl. 1, figs. 8, 8a.

Fossil occurrence.—Ōtake. Ecology.—J 35.

Genus *Phenacovolvula* OYAMA in TAKI & OYAMA, 1954

*Phenacovolvula* [*eburnea* subsp.?] *artiaperta* (YAMAKAWA)

ツムマメヒガイ .....Pl. 19, Fig. 20

[1850. *Bulla eburnea* ADAMS (A.) in SOWERBY (G. B. II), Thes. Conch., vol. II, pt. 11, p. 597, pl. CXXV, fig. 155].—1911. *Volvular* [sic] *artiaperta* YAMAKAWA, Jour. Geol. Soc. Tokyo, vol. XVIII, no. 212, pp. 50-51, pl. XI, figs. 33-36.—1927. *Volvula artiaperta* YAMAKAWA: YOKOYAMA, Moll. Tokyo [etc.], p. 407-408, pl. XLVI, fig. 4.

Fossil occurrence.—Kuruma-chō. Ecology.—P 33-35+, J 32+37. N<sub>1</sub>. The range extends to Sagami Bay (P 35) and to Amakusa Islands (J 32).

## Familia Acteocinidae

Genus *Acteocina* GRAY, 1847Subgenus *Tornatina* ADAMS (A.), 1850

*Acteocina* (*Tornatina*) *exilis* (DUNKER) ヨワコメツブガイ .....Pl. 19, Fig. 15



1860. *Bulla exilis* DUNKER, Malacoz. Bl., Bd. VI (1859), p. 222.—1861. *Tornatina exilis* DKR.: DUNKER, Moll. Japon., p. 25, pl. II, fig. 14.—1922. *Tornatina exilis* DUNKER: YOKOYAMA, Foss. Kazusa Shimosa, p. 24, pl. I, figs. 4, 4a.  
Fossil occurrence.—Ôtake. Ecology.—P 32+–35, J 32+–37. N<sub>1-1</sub>. S. The extension of the range depends on the records from Kashiwajima (P 32) and Amakusa Islands (J 32).

*Acteocina (Tornatina) gordonis* (YOKOYAMA) ゴルドンコメツブガイ ....Pl. 19, Fig. 17

1927. *Retusa gordonis* YOKOYAMA, Moll. westn. Shimosa [etc.], p. 449, pl. LI, fig. 3.  
Fossil occurrence.—Matsudo. Ecology.—P 32–35, J 32+–36. N<sub>1</sub>. mS, sM. This species has been reported from Amakusa Islands (J 32).

#### Subgenus *Didontoglossa* ANNANDALE, 1924

*Acteocina (Didontoglossa) koyasensis* (YOKOYAMA)

コヤスツヅラガイ .....Pl. 19, Figs. 11, 16

1927. *Tornatina koyasensis* YOKOYAMA, Moll. westn. Shimosa [etc.], p. 448, p. LI, fig. 1.—  
1927. *Tornatina dulcis* YOKOYAMA, Id., p. 449, pl. LI, fig. 2.  
Fossil occurrence.—Koyasu and Shimo-Sueyoshi. Ecology.—J 34+. The record from Onoda is the only available occurrence.

#### Subgenus *Decorifer* IREDALE, 1937

*Acteocina (Decorifer) insignis* (PILSBRY) コメツブガイ .....Pl. 19, Fig. 12

1904. *Tornatina insignis* PILSBRY, Proc. Acad. Nat. Sci. Philadelphia, 1904, [pt. of Jan.], pp. 36–37, pl. V, figs. 49, 49a.—1927. *Tornatina fontinalis* YOKOYAMA, Moll. Tokyo [etc.], p. 407, pl. XLVI, fig. 3.  
Fossil occurrence.—Sendagaya [Jingûmae 5-chôme]. Ecology.—P 33–38, J 32+–33+. N<sub>1</sub>. S. The occurrence from Amakusa (J 32) to Genkai-Nada (J 33) and Yanai (J 33) is the range along the Tsushima Current.

*Acteocina (Decorifer) globosa* (YAMAKAWA) マルコメツブガイ ....Pl. 19, Figs. 18, 21

1911. *Retusa globosa* YAMAKAWA, Jour. Geol. Soc. Tokyo, vol. XVIII, no. 211, pp. 43–44, pl. X, figs. 14–16.—1922. *Retusa globosa* YAMAKAWA: YOKOYAMA, Foss. Kazusa Shimosa, p. 25, pl. I, figs. 6, 6a.—1927. *Tornatina simplex* ADAMS: YOKOYAMA, Moll. Tokyo [etc.], pp. 206–207, pl. XLVI, fig. 2.  
Fossil occurrence.—Ôtake and Kuruma-chô. Ecology.—P 32–39.

*Acteocina (Decorifer) longispirata* (YAMAKAWA)

クビマキコメツブガイ .....Pl. 19, Fig. 10

1911. *Tornatina longispirata* YAMAKAWA, Jour. Geol. Soc. Tokyo, vol. XVIII, no. 211, pp. 41–42, pl. X, figs. 8–10,—1922. *Tornatina longispirata* YAMAKAWA: YOKOYAMA, Foss. Kazusa Shimosa, p. 24, pl. I, fig. 5.  
Fossil occurrence.—Shitô. Ecology.—P 35–39, J 36–40. N<sub>1</sub>. [S].

*Acteocina (Decorifer) delicatula* (ADAMS (A.)) ヒラマキコメツブガイ ....Pl. 19, Fig. 27

1862. *Tornatina delicatula* ADAMS (A.), Ann. Mag. Nat. Hist., ser. 3, vol. IX, no. 50, pp. 153–

- 154.—1922. *Retusa truncata* YAMAKAWA: YOKOYAMA, Foss. Kazusa Shimosa, p. 25, pl. I, figs. 7, a.  
Fossil occurrence.—Ôtake. Ecology.—P 34-35, J -37.

## Familia Scaphanderidae

Genus *Abderospira* DALL, 1896

*Abderospira punctulata* (ADAMS (A.)) キザミコダマガイ .....Pl. 19, Fig. 22

1862. *Roxania punctulata* ADAMS (A.), Ann. Mag. Nat. Hist., ser. 3, vol. IX, no. 50, pp. 158-159.—1922. *Bulla multiarata* YOKOYAMA, Foss. Kazusa Shimosa, p. 29, pl. I, figs. 14, 14a.

Fossil occurrence.—Shitô. Ecology.—P 33<sup>+</sup>-39, J 34<sup>+</sup>-37. N<sub>3-4</sub>. S. The ranges are extended to Kôchi Prefecture (P 33) and Mishima (J 34) instead of "J 35".

Genus *Adamnestia* IREDALE, 1936

*Adamnestia japonica* (ADAMS (A.)) クダタマガイ .....Pl. 19, Figs. 29-31

1871. *Cylichna japonica* ADAMS (A.), Ann. Mag. Nat. Hist., ser. 3, vol. IX, no. 50, pp. 150-151.  
—1920. *Cylichna musashiensis* TOKUNAGA: YOKOYAMA, Foss. Miura [etc.], pp. 27-28, pl. I, figs. 4a, 4b.—1920. *Cylichna orientalis* YOKOYAMA, Id., p. 30, pl. I, figs. 9a-c.  
—1922. *Cylichna musashiensis* TOKUNAGA: YOKOYAMA, Foss. Kazusa Shimosa, p. 27, pl. I, fig. 10.

Fossil occurrence.—Koshiha and Ôtake. Ecology.—P 29-35, J -35. N<sub>1-4</sub>, B<sub>2-3</sub>. S.

Genus *Eocylichna* KURODA et HABE, 1954

*Eocylichna braunsi* (YOKOYAMA) ツマベニカイコガイダマシ .....Pl. 19, Fig. 28

1920. *Cylichna braunsi* YOKOYAMA, Foss. Miura [etc], p. 28, pl. I, figs. 5a, b.

Fossil occurrence.—Naganuma. Ecology.—P -0-35, J -37. N<sub>1</sub>.

## Familia Philinidae

Genus *Philine* ASCANIUS, 1772

*Philine argentata* GOULD キセワタ .....Pl. 20, Fig. 3

1859. *Philine argentata* GOULD, Proc. Boston Soc. Nat. Hist., vol. VII, p. 139.—1862. *Philine argentata* GOULD: GOULD, Otia conch., pp. 111-112.—1872. *Philine japonica* LISCHKE, Malacoz. Bl., Bd. XIX, pp. 105-106.—1874. *Philine japonica* LISCHKE: LISCHKE, Japan. Meer.-Conch., Bd. II, p. 77, pl. V, figs. 13, 14.—1927. *Philine japonica* LISCHKE: YOKOYAMA, Moll. Tokyo [etc.], p. 408, pl. XLVI, fig. 5.

Fossil occurrence.—Ôtake and Ôji. Ecology.—P 33<sup>+</sup>-38, J 32<sup>+</sup>-40. N<sub>1-3</sub>. sM. The southern limits are extended by the records from Tosa (P 33) and Amakusa Islands (J 32).

*Philine vitrea* GOULD ウスキセワタ .....Pl. 20, Figs. 1, 2

1859. *Philine vitrea* GOULD, Proc. Boston Soc. Nat. Hist., vol. VII, p. 139.—1862. *Philine vitrea* GOULD: GOULD, Otia conch., p. 111.—1862. *Philine scalpta* ADAMS (A.), Ann. Mag. Nat. Hist., ser. 3, vol. IX, no. 50, p. 160.—1922. *Philine scalpta* A. ADAMS: YOKOYAMA, Foss. Kazusa Shimosa, pp. 27-28, pl. I, figs. 11, (?)12.—1964. *Philine vitrea*

GOULD: JOHNSON, U.S. Nat. Mus., Bull. 239, p. 169, pl. 35, fig. 2 (holotype).  
Fossil occurrence.—Shisui and (?) Kioroshi. Ecology.—P 33+–35, J 34+. The occurrence from Kōchi Prefecture (P 33) is a new record from the Pacific side, and the record from Mishima is indicated as (J 34) instead of (P 35).

Genus *Yokoyamaia* HABE, 1950

Subgenus *Yokoyamaia* s. str.

*Yokoyamaia (Yokoyamaia) ornatissima* (YOKOYAMA) ヨコヤマキセワタ ..Pl. 20, Fig. 4

1927. *Philine ornatissima* YOKOYAMA, Moll. Tokyo [etc.], p. 408, pl. XLVI, fig. 6.

Fossil occurrence.—Kuruma-chō. Ecology.—P 34–42, J -42. N<sub>1</sub>. M.

Subgenus *Choshiphiline* HABE, 1958

*Yokoyamaia (Choshiphiline) pygmaea* (YOKOYAMA).....Pl. 20, Fig. 5

1922. *Philine pygmaea* YOKOYAMA, Foss. Kazusa Shimosa, p. 28, pl. 1, fig. 13.

Fossil occurrence.—Ōtake. Ecology.—P 35.

Classis Scaphopoda

Familia Dentaliidae

Genus *Dentalium* LINNAEUS, 1758

Subgenus *Paradentalium* COTTON & GODFREY, 1933

*Dentalium (Paradentalium) octangulatum hexagonum* GOULD

ムカドツノガイ .....Pl. 20, Figs. 22–24

1859. *Dentalium hexagonum* GOULD, Proc. Boston Soc. nat. Hist., vol. VII, p. 166.—1862.

*Dentalium hexagonum* GOULD, Otia Conch., p. 119.—1920. *Dentalium octogonum* LAMARCK:

YOKOYAMA, Foss. Mimura [etc.], p. 103, pl. VI, figs. 22–24.—1964. *Dentalium*

*hexagonum* GOULD: JOHNSON, U.S. nat. Mus., Bull. 239, p. 88, pl. 22, fig. 4 (holotype).

Fossil occurrence.—Naganuma. Ecology.—P -0–42, J -42.

Subgenus *Antalis* HERRMANNSEN, 1846

*Dentalium (Antalis) septentrionale* KURODA キタノツノガイ ..Pl. 20, Figs. 7, 11, 13, 14

1920. *Dentalium weinkauffii* DUNKER: YOKOYAMA, Foss. Miura [etc.], p. 102, pl. VI, figs. 19–

21.—1922. *Dentalium weinkauffii* DUNKER: YOKOYAMA, Foss. Kazusa Shimosa, p. 118,

pl. IV, fig. 6.—1954. *Dentalium septentrionalis* [-e] KURODA in TAKI & OYAMA, Plioc.

& later Faunas, p. 30, pl. 7, figs. 19–21; pl. 26, fig. 6.

Fossil occurrence.—Shimo-Miyata and Ōtake. Ecology.—Unknown.

Subgenus *Laevidentalium* COSSMANN, 1888

*Dentalium (Laevidentalium) yamakawai* YOKOYAMA

ヤマカワツノガイ .....Pl. 20, Fig. 10

1927. *Dentalium yamakawai* YOKOYAMA, Moll. Tokyo [etc.], p. 427, pl. XLVIII, fig. 6.

Fossil occurrence.—Shinagawa. Ecology.—P 35, J 36–41. N<sub>2</sub>. fs.

Subgenus *Fustiaria* STOLICZKA, 1868

*Dentalium (Fustiaria) nipponicum* YOKOYAMA ヤマトツノガイ .....Pl. 20, Figs. 8

1922. *Dentalium (Fustiaria) nipponicum* YOKOYAMA, Foss. Kazusa Shimosa, p. 119, pl. VI, fig. 7.  
Fossil occurrence.—Shitô. Ecology.—P 32-35, J -36.

Subgenus *Fissidentalium* FISCHER (P.), 1885

*Dentalium (Fissidentalium) yokoyamai* MAKIYAMA ヤスリツノガイ .....Pl. 20, Fig. 6

1920. *Dentalium complexum* DALL : YOKOYAMA, Foss. Miura [etc.], pp. 101-102, pl. VI, fig. 27.  
—1931. *Dentalium yokoyamai* MAKIYAMA, Mem. Coll. Sci. Kyoto Imp. Univ., ser. B,  
vol. VII, no. 1, p. 44, pl. I, fig. 1.  
Fossil occurrence.—Koshiba. Ecology.—P 33-34. N<sub>4</sub>.

Subgenus *Graptacme* PILSBRY & SHARP, 1897

*Dentalium (Graptacme) buccinulum* GOULD ヒメナガツノガイ .....Pl. 20, Fig. 9

1859. *Dentalium buccinulum* GOULD, Proc. Boston Soc. nat. Hist., vol. VII, p. 166.—1862.  
*Dentalium buccinulum* GOULD, Otia conch., p. 119.—1927. *Dentalium semipolitum* BRO-  
DERIP et SOWERBY : YOKOYAMA, Moll. Tokyo [etc.], pp. 427-428, pl. XLVIII, fig. 7.  
Fossil occurrence.—Shinagawa. Ecology.—P 26-39, J -37. N<sub>1</sub>. S.

## Classis Pelecypoda

## Ordo Lipodonta

## Superfamilia Solemyacea

## Familia Solemyacidae

Genus *Solemya* LAMARCK, 1818Subgenus *Acharax* DALL, 1908

*Solemya (Acharax) japonica* DUNKER アサヒキヌタレガイ .....Pl. 27, Fig. 1

1882. *Solenomya Japonica* DUNKER, Index Moll. Mar. Japon., pp. 220, 261, pl. XIV, fig. 3.—  
1927. *Solemya yamakawai* YOKOYAMA, Moll. Tokyo [etc.], p. 435, pl. L, fig. 10.  
Fossil occurrence.—Ôji. Ecology.—P 34-35, J 32-40+. N<sub>1</sub>. S.

## Ordo Palaeotaxodonta

## Superfamilia Nuculacea

## Familia Nuculanidae

Genus *Nuculana* LINK, 1807Subgenus *Nuculana* s. str.

*Nuculana (Nuculana) yokoyamai* KURODA アラボリロウバイ .....Pl. 21, Fig. 6

1920. *Leda ramsayi* SMITH : YOKOYAMA, Foss. Miura [etc.], pp. 176-177, pl. XIX, figs. 3a-c.  
—1934. *Nuculana (Thestyleda) yokoyamai* KURODA, Venus, vol. IV, no. 4, p. 204, new  
name for *Leda ramsayi* SMITH sensu YOKOYAMA.  
Fossil occurrence.—Koshiba. Ecology.—P 33-40, J 32-41. N<sub>3-4</sub>B<sub>2-4</sub>. cS.

Genus *Saccella* WOODRING, 1925

*Saccella gordonis* (YOKOYAMA) ゴルドソデガイ .....Pl. 21, Figs. 1-2

1920. *Leda gordonis* YOKOYAMA, Foss. Miura [etc.], pp. 177-178, pl. XIX, figs. 4a, b, 5a, b.  
Fossil occurrence.—Naganuma. Ecology.—P 31-35, J 31-36.  $N_{2-4}B_2$ .  $mS_1$  sM.

*Saccella confusa* (HANLEY) ゲンロクソデガイ .....Pl. 21, Fig. 4

1860. *Leda confusa* HANLEY in SOWERBY (G. B. II), Thes. Conch., vol. III, pt. 20, pp. 119-120, pl. 228, fig. 85.—1922. *Leda confusa* HANLEY: YOKOYAMA, Foss. Kazusa Shimosa, pp. 195-196, pl. XVII, fig. 4.

Fossil occurrence.—Tega. Ecology.—P -0-36, J -41.  $N_1$ . S.

Genus *Yoldia* MÖLLER, 1842Subgenus *Yoldia* s. str.

*Yoldia (Yoldia) naganumana* (YOKOYAMA) ナガヌマソデガイ .....Pl. 21, Fig. 3

1920. *Leda naganumana* YOKOYAMA, Foss. Miura [etc.], p. 178, pl. XIX, figs. 6a-c.

Fossil occurrence.—Koshiha. Ecology.—[P 33-36, J -41]. [ $N_4$ ]. [M].

Remark.—The same species occurs at Naganuma in the Nakazato Formation, while the other forms from Naganuma can be collected from the Naganuma Formation.

Subgenus *Cnesterium* DALL, 1898

*Yoldia (Cnesterium) notabilis* YOKOYAMA フリソデガイ .....Pl. 21, Fig. 5

1922. *Yoldia notabilis* YOKOYAMA, Foss. Kazusa Shimosa, pp. 196-197, pl. XVII, fig. 10.

Fossil occurrence.—Ôtake. Ecology.—P 37-45, J 32-46.  $N_1$  S. Though the range of the Check List (KURODA and HABE, 1952) is stated "P 32-45", this species is not found at least between Miyazaki and Ibaraki Prefectures (P 32-36). Therefore the range is corrected.

## Familia Nuculidae

Genus *Nucula* LAMARCK, 1799Subgenus *Lamellinucula* SCHENCK, 1944

*Nucula (Lamellinucula) tokyoensis* YOKOYAMA

ヨセナミクルミガイ .....Pl. 20, Figs. 28, 29

1920. *Nucula tokyoensis* YOKOYAMA, Foss. Miura [etc.], p. 181, pl. XIX, figs. 10a-c, 11a-c.

Fossil occurrence.—Naganuma. Ecology.—P 34.

Genus *Acila* ADAMS (H.) & ADAMS (A.), 1858Subgenus *Acila* s. str.

*Acila (Acila) minutoides* KURODA & HABE ツボミキララガイ .....Pl. 20, Figs. 26, 27

1920. *Nucula insignis* GOULD: YOKOYAMA, Foss. Miura [etc.], p. 179, pl. XIX, figs. 7, 8a-c.

—1958. *Acila (Truncacila) minutoides* KURODA et HABE, Publ. Seto Mar. biol. Lab., vol. VI, no. 3, pp. 243-244.

Fossil occurrence.—Koshiha. Ecology.—P 33<sup>+</sup>-35<sup>+</sup>.  $N_{3-4}B_2$ . The species ranges from Kochi Prefecture (P 33) to Chôshi (P 35).

*Acila (Acila) divaricata* (HINDS) .....Pl. 20, Fig. 25

1843. *Nucula divaricata* HINDS, Proc. Zool. Soc. London, pt. XI (1843), no. CXXVII, pp. 97-98.—1860. *Nucula divaricata* HINDS: HANLEY in SOWERBY (G. B. II), Thes. Conch., vol. III, p. 155, pl. 230, fig. 151.—1920. *Nucula mirabilis* ADAMS et REEVE: YOKOYAMA, Foss. Miura etc., pp. 180-181, pl. XIX, figs. 9a-c.  
Fossil occurrence.—Nojima. Ecology.—P 30-35, J -45.

Ordo Neotaxodonta

Superfamilia Arcacea

Familia Limopsidae

Genus *Limopsis* SASSI, 1827

Subgenus *Crenulilimopsis* KURODA & HABE, 1971

*Limopsis (Crenulilimopsis) crenata* ADAMS (A.) ナミシワシラスナガイ ..Pl. 21, Figs. 7, 10

- [? 1860. *Limopsis oblonga* ADAMS (A.), Ann. Mag. nat. Hist., ser. 3, vol. V, no. XXIX, p. 412.]—1863. *Limopsis crenata* ADAMS (A.), Proc. Zool. Soc. London, 1862, no. XV, p. 230.—1911. *Limopsis crenata* ADAMS: YOKOYAMA, Jour. geol. Soc. Tokyo, vol. XVII, no. 205, p. 3, pl. IX, figs. 8-11.—1920. *Limopsis crenata* A. ADAMS: YOKOYAMA, Foss. Miura [etc.], pp. 173-174, pl. XVIII, figs. 17, 18.  
Fossil occurrence.—Koshiba. Ecology.—P 25<sup>+</sup>-41, J -42. N<sub>3-4</sub>B. cS. The range extends to western Okinawa Island (P25) by my own material.

Subgenus *Limopsis* s. str.

*Limopsis (Limopsis) auritoides* YOKOYAMA ミミシラスナガイ .....Pl. 21, Figs. 14, 17

1920. *Limopsis auritoides* YOKOYAMA, Foss. Miura [etc.], pp. 171-172, pl. XVIII, figs. 12a-b, 13a-c.  
Fossil occurrence.—Nojima. Ecology.—Unknown. [N<sub>4</sub>, B<sub>2</sub>] [S, sM].

*Limopsis (Limopsis) tokaiensis* YOKOYAMA

トウカイシラスナガイ .....Pl. 21, Figs. 18, 20, 23

1910. *Limopsis Tokaiensis* YOKOYAMA, Jour. Geol. Soc. Tokyo, vol. XVII, no. 205, pp. 1-2, pl. IX, figs. 1-3, 5-7.—1920. *Limopsis tokaiensis* YOKOYAMA: YOKOYAMA, Foss. Miura [etc.], pp. 172-173, pl. XVIII, figs. 14a-c, 15a-c, 16a-c.  
Fossil occurrence.—Koshiba. Ecology.—P 35-40, J 32-41.

*Limopsis (Limopsis?) adamsiana* YOKOYAMA

アダムズシラスナガイ .....Pl. 21, Figs. 11, 13

1910. *Limopsis* sp., YOKOYAMA, Jour. Geol. Soc. Tokyo, vol. XVII, no. 205, pp. 4-5, pl. IX, fig. 12.—1920. *Limopsis adamsiana* YOKOYAMA, Foss. Miura [etc.], pp. 175-176, pl. XIX, figs. 1a-c, 2a-c.  
Fossil occurrence.—Kami-Miyata and Koshiba. Ecology.—Unknown.

Subgenus *Empleconia* DALL, 1908

*Limopsis (Empleconia) cumingi* ADAMS (A.) オリイレシラスナガイ ..Pl. 21, Figs. 8, 9

1863. *Limopsis cumingi* ADAMS (A.), Proc. Zool. Soc. London, 1862, no. XV, p. 229.—1922.  
*Limopsis areolata* YOKOYAMA, Foss. Kazusa Shimosa, p. 194, pl. XVII, figs. 6, 7.  
 Fossil occurrence.—Shitô. Ecology.—P 31-35, J 32-36. N<sub>3-4</sub>. S.

Subgenus *Oblimopa* IREDALE, 1939

*Limopsis (Oblimopa) forskalii* ADAMS (A.) シラスナガイ .....Pl. 21. Fig. 16

- [? 1863. *Limopsis japonica* ADAMS (A.), Proc. Zool. Soc. London, 1862, no. XV, p. 229].—  
 1863. *Limopsis forskalii* A. ADAMS, Proc. Zool. Soc. London, 1862, no. XV, p. 230.—1922.  
*Limopsis woodwardi* A. ADAMS : YOKOYAMA, Foss. Kazusa Shimosa, pp. 192-193, pl. XVII,  
 fig. 5.

Fossil occurrence.—Tega. Ecology.—P 22+, -39, J -37. N<sub>1-3</sub>. mS, sM. The range P 23  
 should be read P 22, because Kaohsung (Takao) is situated on 22°N.

Subgenus *Nipponolimopsis* HABE, 1951

*Limopsis (Nipponolimopsis) nipponica* YOKOYAMA

ヤマトマメシラスナガイ .....Pl. 21. Figs. 21, 22

1922. *Limopsis nipponica* YOKOYAMA, Foss. Kazusa Shimosa, p. 195, pl. XVII, figs. 16, 17.  
 Fossil occurrence.—Kioroshi. Ecology.—J 41.

*Limopsis (Nipponolimopsis) azumana* YOKOYAMA

マルシラスナガイ .....Pl. 21. Figs. 12, 15, 19

1910. *Limopsis Azumana* YOKOYAMA, Jour. Geol. Soc. Tokyo, vol. XVII, no. 205, pp. 3-4, pl.  
 IX, figs. 16-18.—1910. *Limopsis truncata* YOKOYAMA, Id., p. 4, pl. IX, figs. 13, 14.—  
 1920. *Limopsis azumana* YOKOYAMA : YOKOYAMA, Foss. Miura [etc.], pp. 174-175, pl.  
 XVIII, figs. 19-21.

Fossil occurrence.—Koshiha. Ecology.—P 33-35, J 32-42. N<sub>4</sub>. S, mS.

Familia Glycymeridae

Genus *Glycymeris* DA COSTA, 1778

Subgenus *Glycymeris* s. str.

*Glycymeris (Glycymeris) vestita* (DUNKER) タマキガイ

....Pl. 22, Figs. 10-11; Pl. 23, Figs. 1, 2, 4, 7, 9, 10; Pl. 24, Figs. 1, 2, 4, 7, 9, 10

1877. *Pectunculus vestitus* DUNKER, Malakoz. Bl., Bd. XXIV, pp. 72-73.—1882, *Pectunculus*  
*vestitus* DUNKER : DUNKER, Index Moll. Mar. Japon., pp. 236-237, pl. XVI, figs. 7, 8.—  
 1920. *Pectunculus rotundus* DUNKER : YOKOYAMA, Foss. Miura [etc.], pp. 167-168, pl.  
 XVII, figs. 10, 11.—1922. *Pectunculus alboineatus* LISCHKE : YOKOYAMA, Foss. Kazusa  
 Shimosa, pp. 188-189, pl. XVII, figs. 1-3.—1922. *Pectunculus vestitus* DUNKER : YOKO-  
 YAMA, Id., p. 189, pl. XVI, figs. 1-3.

Fossil occurrence.—Naganuma, Ôtake and Tega. Ecology.—P 31-35, J -40. N<sub>1-3</sub>. S, mS.

*Glycymeris (Glycymeris) yessoensis* (SOWERBY)

エゾタマキ.....Pl. 23, Figs. 3, 5, 6, 8; Pl. 24, Figs. 3, 5, 6, 8

1889. *Pectunculus yessoensis* SOWERBY (G. B. III), Proc. Zool. Soc. London, 1888, no. XXXVIII,  
 p. 570, pl. XXVIII, fig. 19.—1920. *Pectunculus yessoensis* SOWERBY : YOKOYAMA, Foss.

Miura [etc.], p. 168, pl. XVIII, figs. 1a-b, 2a-b.—1922. *Pectunculus yessoensis* SOWERBY : YOKOYAMA, Foss. Kazusa Shimosa, pp. 189-190, pl. XVI, figs. 6, 7.  
Fossil occurrence.—Ôkine, Motowada and Shitô. Ecology.—P 34-44, J 34?-46. N<sub>1</sub>. S.

*Glycymeris (Glycymeris) rotunda* (DUNKER) (forma *yamakawai* YOKOYAMA)

ベニグリ .....Pl. 22, Figs. 5-6

1882. *Pectunculus rotundus* DUNKER, Index Moll. Mar. Japon., p. 236, pl. XVI, figs. 9, 10.—  
1922. *Pectunculus yamakawai* YOKOYAMA, Foss. Kazusa Shimosa, pp. 190-191, pl. XVI,  
figs. 4-5, [Not. *Pectunculus rotundus* DUNKER sensu YOKOYAMA, 1920].

Fossil occurrence.—Shitô. Ecology.—P 26<sup>+</sup>-42, J 32-42<sup>+</sup>. N<sub>3-4</sub>B<sub>2</sub>. fsM, mfS. (Horizontal range extends to western Okinawa Islands (P 26) and to Kumaishi (J 42), west side of Hokkaido, by my material).

*Glycymeris (Glycymeris) nipponica* (YOKOYAMA) ヤマトタマキガイ..Pl. 22, Figs. 1-4, 7

1920. *Pectunculus nipponicus* YOKOYAMA, Foss. Miura [etc.], pp. 168-169, pl. XVIII, figs. 3-7.  
Fossil occurrence.—Koshiha. Ecology.—J 40.

#### Subgenus *Tucetilla* IREDALE, 1939

*Glycymeris (Tucetilla) pilsbryi* (YOKOYAMA) ビロウドタマキ .....Pl. 22, Figs. 8-9

1920. *Pectunculus pilsbryi* YOKOYAMA, Foss. Miura [etc.], p. 170, pl. XVIII, figs. 8a-c.—  
1922. *Pectunculus pilsbryi* YOKOYAMA: YOKOYAMA, Foss. Kazusa Shimosa, p. 190, pl.  
XVI, figs. 8, 9.

Fossil occurrence.—Shimo-Miyata and Shitô. Ecology.—P 25<sup>+</sup>-41, J -41. N<sub>2-4</sub>B<sub>2-4</sub>. gS. The range extends to western Okinawa Islands (P 25) by my material.

#### Familia Paralleodontidae

##### Genus *Porterius* CLARK, 1925

*Porterius dalli obliquatus* (YOKOYAMA) シコロエガイ .....Pl. 25, Figs. 1-6

[1885. *Arca (Macrodon) dalli* SMITH (E. A.), Challenger Rep., Zool., vol. XIII, p. 269, pl. XVII,  
figs. 10, 10a, b].—1920. *Parallelodon obliquatus* YOKOYAMA, Foss. Miura [etc.], pp.  
170-171, pl. XVII, figs. 6a, b; pl. XVIII, figs. 9a-c, 10a-c, 11a-c.—1922. *Cucullaria*  
*orientalis* YOKOYAMA, Foss. Kazusa Shimosa, pp. 191-192, pl. XVII, figs. 8, 9.

Fossil occurrence.—Yokosuka, Shimo-Miyata, Ôkine, and Shitô. Ecology.—P 26, 35-41, J  
33-43. N<sub>(0), 1-4</sub>, B. R, S, M. The occurrence from "P 34" should be corrected as "J 33",  
because the specimen came from western Seto-Naikai. The southern limit of this subspecies  
is Sagami Sea. Although it was collected from western Okinawa Islands, it is not found  
between Okinawa and Sagami Sea (27-34).

Remark.—This form is not identical with *P. dalli* SMITH, although its illustrated specimen  
may not be a normal form of *P. dalli obliquatus*.

#### Familia Arcidae

##### Genus *Acar* GRAY, 1857

*Acar plicata* (DILLWYN) コシロガイ .....Pl. 25, Fig. 9



1817. *Arca plicata* DILLWYN (ex CHEMNITZ), Descr. Catal. Shells, vol. I, p. 227-228.—1924. *Arca (Barbatia) domingensis* LAMARCK: YOKOYAMA, Moll. Coral-Bed, pp. 60-61, pl. V, fig. 6.

Fossil occurrence.—Numa. Ecology.—P -0-39, J -41. R. N<sub>0-1</sub>.

Genus *Barbatia* GRAY, 1847

Subgenus *Barbatia* s. str.

*Barbatia (Barbatia) stearnsi* (DILLWYN) ハナエガイ .....Pl. 25, Figs. 11, 12

1895. *Arca stearnsi* PILSBRY, Catal. Mar. Moll. Japan, pp. 148-149, pl. III, figs. 8-10.—1924. *Arca stearnsii* PILSBRY: YOKOYAMA, Moll. Coral-Bed., p. 59, pl. III, figs. 5, 6. [Not *Arca stearnsii* PILSBRY sensu YOKOYAMA, 1920, see *Barbatia (Barbatia?)* sp.]

Fossil occurrence.—Numa. Ecology.—P 25-39, J -40. N<sub>0-1</sub>. R.

*Barbatia (Barbatia) bicolorata* (DILLWYN) ベニエガイ .....Pl. 25, Fig. 13

1789. *Arca fusca* BRUGUIÈRE, Ency. Méth. (Vers), Tom. I, pt. 1, p. 102, non *Arca fusca* SOLANDER in LIGHTFOOT, 1786.—1817. *Arca bicolorata* DILLWYN (ex CHEMNITZ), Descr. Catal. Shells, vol. I, p. 231.—1911. *Arca fusca* BRUGUIÈRE: YOKOYAMA, Climat. Change, p. 8, pl. I, fig. 8.—1924. *Arca (Barbatia) fusca* BRUGUIÈRE: YOKOYAMA, Moll. Coral-Bed, p. 61, pl. V, fig. 13.

Fossil occurrence.—Numa. Ecology.—P -0-34, J -33-. N<sub>0-1</sub>. R. The occurrence "J 37" is doubtful.

Remark.—IREDALE, 1939, introduced a generic name *Ustularca* for *Ustularca cruciata renuta* IREDALE, but this genus never differs from *Barbatia* GRAY, 1842, with *Arca barbata* LINNAEUS as type. While he considered that *Barbatia* is a junior synonym of *Arca* LINNAEUS, 1758, still his *Arca* differs from the true *Barbatia* in some degree. To those who would separate IREDALE'S *Arca* from *Barbatia*, the name *Cuccullaearca* CONRAD, 1865, should be applied for it.

*Barbatia (Barbatia?)* sp. ....Pl. 25, Fig. 10

1920. *Arca stearnsii* PILSBRY: YOKOYAMA, Foss. Miura [etc.], pp. 165-166, pl. XVI, figs. 9a-b. Fossil.—occurrence.—Koshiba. Ecology.—Unknown.

Remark.—As the illustrated specimen is lost, it is hardly revised.

Genus *Arca* LINNAEUS, 1758

*Arca boucardi miyatensis* OYAMA キタノフネガイ .....Pl. 25, Fig. 7

- [1894. *Arca boucardi* JOUSSEAUME, Humming Bird, vol. IV, p. 41, (fide Lamy, 1907, Jour. Conchyliol., vol. LV, p. 44)].—1920. *Arca kobeltiana* PILSBRY: YOKOYAMA, Foss. Miura [etc.], pp. 163-164, pl. XVII, figs. 4a-c.—1954. *Arca miyatensis* OYAMA in TAKI & OYAMA, Plioc. & later Faunas, p. 31, pl. 18, figs. 4a-c, new name for *Arca kobeltiana* PILSBRY sensu YOKOYAMA.

Fossil occurrence.—Shimo-Miyata. Ecology.—P 25-42, J -43. N<sub>3</sub>. shS, cS, S. This subspecies ranges from western Okinawa Islands to Hokkaido (Otaru and Kushiro).

*Arca arabica* PHILIPPI ネジアサリ .....Pl. 25, Fig. 8

1847. *Arca arabica* PHILIPPI, Abb. u. Beschr. Conch., Bd. III, Heft 1, p. 28, *Arca* pl. IV [XVII 6], figs. 2a-c.—1924. *Arca kraussi* PHILIPPI: YOKOYAMA, Moll. Coral Bed, pp. 61-62, pl. V, fig. 5.

Fossil occurrence.—Numa. Ecology.—P -0-35+, J -40. N<sub>0-1</sub>. R. The range extends to Sagami Bay (P 35) by my material.

Genus *Anadara* GRAY, 1847

Subgenus *Scapharca* GRAY, 1847

*Anadara (Scapharca) broughtoni* (SCHRENCK) アカガイ .....Pl. 26. Fig. 8

1844. *Arca inflata* REEVE, Conch. Icon., vol. II, *Arca*, sp. 30, pl. V, fig. 30 (non *Arca inflata* SCHRÖTER, 1802, nec BROCCHI, 1814).—1844. *Arca inflata* REEVE, Proc. Zool. Soc. London. Pt. XII (1844), no. CXXXIII & CXXXIV, p. 41.—1867. *Arca Broughtonii* SCHRENCK, Reise u. Forsch. Amur-Lande, Bd. II, pp. 578-580, pl. XXIV, figs. 1-3.—1920. *Arca inflata* REEVE: YOKOYAMA, Foss. Miura [etc.], p. 167, pl. XVII, fig. 9.—1922. *Arca (Anomalocardia) inflata* REEVE: YOKOYAMA, Foss. Kazusa Shimosa, p. 187, pl. XV, fig. 9.  
Fossil occurrence.—Naganuma and Ôtake. Ecology.—P 26-42, J -42. N<sub>1</sub>. S, mS.

*Anadara (Scapharca) subcrenata* (LISCHKE) サルボウ .....Pl. 26. Fig. 9

1869. *Arca subcrenata* LISCHKE, Malacoz. Bl., Bd. XVI, IV, pp. 107-108.—1869. *Arca subcrenata* LISCHKE: LISCHKE, Japan. Meer. Conch., Bd. I, pp. 146-147, pl. IX, figs. 1-3.—1869. *Arca nodoso-crenata* LISCHKE, Id., pl. IX, figs. 1-3, [may be *lapsus calami*].—1922. *Arca (Scapharca) subcrenata* LISCHKE: YOKOYAMA, Foss. Kazusa Shimosa, pp. 187-188, pl. XV, fig. 12.  
Fossil occurrence.—Ôtake. Ecology.—P 26-40, J -41+. N<sub>0-1</sub>. mS, sM. The range extends to "J -41" by Ishikawa's material.

Subgenus *Tegillarca* IREDALE, 1939

*Anadara (Tegillarca) granosa* (LINNAEUS) ハイガイ .....Pl. 26. Fig. 1

1758. *Arca granosa* LINNAEUS, Syst. Nat., ed. 10, Tom. I, p. 694.—1922. *Arca (Anomalocardia) granosa* LINNÉ: YOKOYAMA, Foss. Kazusa Shimosa, pp. 312-313, pl. XV, fig. 4.  
Fossil occurrence.—Shisui (shell mound). Ecology.—P -0-34, J -40. N<sub>0</sub>. M.

Familia Noetidae

Subfamilia Striarcinae

Genus *Striarca* CONRAD, 1862

Subgenus *Galactella* COSSMANN & PEYROT, 1913

*Striarca (Galactella) interplicata* (GRABAU & KING)

ヨコヤマミエガイ .....Pl. 26. Figs. 3-4

1920. *Arca symmetrica* REEVE: YOKOYAMA, Foss. Miura [etc.], p. 166, pl. XVII, figs. 7a-c, 8a, b.—1928. *Arca (Barbatia) interplicata* GRABAU & KING, Shells of Peitaiho, pp. 161-162, pl. I, fig. 9.—1933. *Arca (Barbatia) yokoyamai* NOMURA, Sci. Rep. Tohoku Imp. Univ., ser. 2, vol. XVI, no. 1, p. 41, pl. I, figs. 3a-c.—1954. *Striarca (Galactella) yokoyamai* NOMURA: TAKI & OYAMA, Plioc. & later Faunas, p. 32, pl. 18, figs. 7a-c, 8a-b.

Fossil occurrence.—Naganuma. Ecology.—P 25-35, J -37. N<sub>0-3</sub>. mS, sM, R.

Subgenus *Didimacar* IREDALE, 1939

*Striarca (Didimacar) tenebrica* (REEVE) マルミミエガイ .....Pl. 26, Fig. 5-6

1844. *Arca tenebrica* REEVE, Conch. Icon., vol. II, *Arca*, sp. 105, pl. XVI, fig. 105.—1920. *Arca decussata* (SOWERBY): YOKOYAMA, Foss. Miura [etc.], p. 165, pl. XVII, figs. 5a, 5b.—  
1924. *Arca (Barbatia) tenebrica* REEVE: YOKOYAMA, Moll. Coral-Bed., p. 60, pl. V, fig. 7.  
Fossil occurrence.—Yokosuka and Numa. Ecology.—P -0-35+, J -37. N<sub>0-1</sub>. R, gR. The horizontal range extends to Sagami Bay (P 35) by my material.

## Ordo Dysodonta

## Superfamilia Mytilacea

## Familia Mytilidae

Genus *Solamen* IREDALE, 1924

*Solamen diaphana* (DALL) キサガイモドキ .....Pl. 27, Fig. 2

1907. *Crenella diophana* DALL, Smiths. misc. Coll., vol. 50, no. 2, p. 171.—1927. *Crenella spectabilis* A. ADAMS: YOKOYAMA, Moll. Tokyo [etc.], p. 455, pl. XLIX, fig. 3.  
Fossil occurrence.—Kuruma-chô. Ecology.—P 32<sup>+</sup>-36, J 33<sup>+</sup>-41. N<sub>2</sub>. sM. The horizontal range extends to Tosa (P 32) by Sakurai Collection and Genkai Nada by TAKAHASHI *et al.*

Genus *Crenella* BROWN, 1827

*Crenella yokoyamai* NOMURA ヨコヤマキザミガイ .....Pl. 27, Figs. 3, 4

1922. *Crenella divaricata* YOKOYAMA, Foss. Kazusa Shimosa, pp. 175-176, pl. XV, figs. 10a, 11, non *C. divaricata* (D'ORBIGNY, 1844) [*Mytilus*].—1932. *Crenella yokoyamai* NOMURA, Sci. Rep. Tôhoku Imp. Univ., ser. 2, vol. XV, no. 2, p. 74 (10), new name for *C. divaricata* YOKOYAMA, non D'ORBIGNY.  
Fossil occurrence.—Shitô. Ecology.—P 34<sup>+</sup>-35, J 37<sup>+</sup>. N<sub>1-4</sub>. S. The range extends to Izu Peninsula (P 34) by my material.

Genus *Musculus* [RÖDING], 1798Subgenus *Musculista* YAMAMOTO & HABE, 1958

*Musculus (Musculista) senhousia* (BENSON) ホトトギス .....Pl. 27, Fig. 6

1842. *Modiola senhousia* BENSON, Ann. Mag. nat. Hist., [ser. 1], vol. IX, no. 60, p. 489.—  
1857. *Modiola Senhausii* REEVE, Conch. Icon., vol. X, *Modiola*, sp. 22, pl. V, fig. 22.—  
1927. *Modiola senhausii* REEVE: YOKOYAMA, Moll. Tokyo [etc.], p. 435, pl. XLIX, fig. 6.  
Fossil occurrence.—Shinagawa. Ecology.—P 23-43, J -45. N<sub>0-1</sub>. alM.

Genus *Septifer* RÉCLUZ, 1848Subgenus *Mytilisepta* HABE, 1951

*Septifer (Mytilisepta) keeni* NOMURA ヒメガイ .....Pl. 27, Fig. 5

1920. *Mytilus hirsutus* LAMARCK: YOKOYAMA, Foss. Miura [etc.], p. 144, pl. XI, figs. 16a, b.  
—1936. *Septifer keeni* NOMURA, Venus, vol. VI, no. 4, pp. 205-208, text-figs. 1a-d, 2-5.  
Fossil occurrence.—Yokosuka. Ecology.—P 25-41, J -41. N<sub>0-1</sub>. R, gR.

Subgenus *Septifer* s. str.

- Septifer* (*Septifer*) (*bilocularis* subsp.?) *pilosus* (REEVE)  
 ミノクジャクガイ .....Pl. 27, Fig. 7
1858. *Mytilus pilosus* REEVE, Conch. Icon., vol. X, *Mytilus*, sp. 35, pl. VIII, fig. 35.—1924.  
*Mytilus curvatus* DUNKER: YOKOYAMA, Moll. Coral-Bed., pp. 52-53, pl. III, fig. 10.  
 Fossil occurrence.—Numa. Ecology.—P 10-35, J -37. N<sub>0</sub>. R.

Genus *Modiolus* LAMARCK, 1799Subgenus *Modiolus* s. str.

- Modiolus* (*Modiolus*) *nipponicus* (OYAMA) ヒバリガイ .....Pl. 27, Fig. 10
1924. *Modiolaria semigranata* REEVE: YOKOYAMA, Moll. Coral-Bed., pp. 53-54, pl. III, fig. 14.  
 —1950. *Volsella nipponica* OYAMA, Mineral. & Geol., vol. 3, no. 6, p. 225.  
 Fossil occurrence.—Numa. Ecology.—P 25-41, J -41. N<sub>0-1</sub>. R.
- Modiolus* (*Modiolus*) *modiolus difficilis* (KURODA & HABE)  
 エゾヒバリガイ .....Pl. 27, Fig. 8
1920. *Modiola modiola* LINNÉ: YOKOYAMA, Foss. Miura [etc.], p. 145, pl. XI, fig. 21.—1950.  
*Volsella difficilis* KURODA & HABE, Illustr. Catal. Japan. Shells, [ser. 1], no. 4, p. 30,  
 new name for *Modiola modiolus* LINNÉ sensu YOKOYAMA.  
 Fossil occurrence.—Shimo-Miyata. Ecology.—P 35-51, J -47. N<sub>1</sub>.

- Modiolus* (*Modiolus*) *comptus* (SOWERBY G. B. III) ビロウドマクラ .....Pl. 27, Fig. 9
1915. *Volsella compta* SOWERBY (G. B. III), Ann. Mag. nat. Hist., ser. 8, vol. XVI, no. 93, pp.  
 168-169, pl. X, fig. 10.—1922. *Modiola barbata* (LINNÉ): YOKOYAMA, Foss. Kazusa Shi-  
 mosa, pp. 174-175, pl. XIV, fig. 19.  
 Fossil occurrence.—Tega. Ecology.—P 32-34, J -33<sup>+</sup>. N<sub>1</sub>. fS. The occurrence in Yama-  
 guchi Prefecture (J 33) is by Kawamoto's material.

Genus *Mytilus* LINNAEUS, 1758

- Mytilus coruscus* GOULD イガイ .....Pl. 27, Fig. 11
1861. *Mytilus coruscus* GOULD, Proc. Boston Soc. nat. Hist., vol. VIII, p. 38.—1862. *Mytilus coruscus* GOULD: GOULD, Otia conch., p. 177.—1868. *Mytilus crassitesta* LISCHKE, Malacoz. Bl., Bd. XV, V, p. 221.—1869. *Mytilus crassitesta* LISCHKE: LISCHKE, Japan. Meer. Conch., Bd. I, pp. 151-153, pl. XI, figs. 1, 2.—1920. *Mytilus giganteus* HOLMBERG: YOKOYAMA, Foss. Miura [etc.], p. 145, pl. XI, figs. 20a-b.—1954. *Mytilus crassitesta* LISCHKE: TAKI & OYAMA, Plioc. & later Faunas, p. 34, pl. 12, figs. 20a, b.—1964. *Mytilus coruscus* GOULD: JOHNSON, U.S. nat. Mus., Bull. 239, p. 60, pl. 28, fig. 6.  
 Fossil occurrence.—Yokosuka. Ecology.—P 31-42, J -42. N<sub>0-1</sub>. R.

Genus *Lithophaga* [RÖDING], 1798Subgenus *Leiosolenus* CARPENTER, 1856

- Lithophaga* (*Leiosolenus*) *lima* LAMY  
 イワカワシギノハシ (イワカワイシマテ) .....Pl. 27, Fig. 12

1919. *Lithophaga lima* JOUSSEAUME in LAMY, Bull. Mus. nat. Hist. nat. [Paris], Tom. XXV, pp. 256-257.—1924. *Lithophaga nasuta* (PHILIPPI): YOKOYAMA, Moll. Coral-Bed, p. 53, pl. III, fig. 11.

Fossil occurrence.—Numa. Ecology.—P 23-33. N<sub>1</sub>. C.

#### Subgenus *Labis* DALL, 1916

*Lithophaga (Labis) erimitica* KURODA & HABE カクレイシマテ .....Pl. 27, Fig. 13

1922. *Lithophaga zitteliana* DUNKER: YOKOYAMA, Foss. Kazusa Shimosa, p. 175, pl. XVII, fig. 14.—1971. *Lithophaga (Labis) erimitica* KURODA & HABE in KURODA *et al.*, Sea Shells Sagami Bay, pp. 554-555 [in Japanese], 352 [in Engl.], pl. 74, fig. 11.

Fossil occurrence.—Ôtake. Ecology.—P 32-35. N<sub>0-1</sub>. Sh, C. This form bores shells or corals.

### Superfamilia Pteriacea

#### Familia Isognomonidae

##### Genus *Isognomon* SOLANDER in LIGHTFOOT, 1786

##### Subgenus *Isognomon* s. str.

*Isognomon (Isognomon) marsupiale* (RÖDING) アオリガイ .....Pl. 26, Fig. 7

- [? 1767. *Ostrea perna* LINNAEUS, Syst. Nat., ed. 12, Tom. 1, p. 1149].—1798. *Isognonum Marsupiale* [RÖDING], Mus. Boltzen., pars 2, p. 168.—1911. *Perna marsupium* LAM.: YOKOYAMA, Climat. Change, p. 8, pl. I, fig. 4.—1924. *Perna marsupium* LAMARCK: YOKOYAMA, Moll. Coral-Bed., p. 58, pl. V, fig. 8.

Fossil occurrence.—Numa. Ecology.—P -0-33. N<sub>0-1</sub>. R, gR.

#### Familia Pinnidae

##### Genus *Atrina* GRAY, 1847

##### Subgenus *Servatrina* IREDALE, 1939

*Atrina (Servatrina) pectinata japonica* (REEVE) タイラギ .....Pl. 26, Fig. 2

1858. *Pinna japonica* REEVE, Conch. Icon., vol. XI, *Pinna*, sp. 47, pl. XXV, fig. 47.—1922. *Pinna japonica* HANLEY: YOKOYAMA, Foss. Kazusa Shimosa, p. 185, pl. XV, fig. 8.

Fossil occurrence.—Shitô. Ecology.—P ?31-39, J -37. N<sub>1</sub>. S, mS, sM.

### Superfamilia Pectinacea

#### Familia Plicatulidae

##### Genus *Plicatula* LAMARCK, 1801

*Plicatula simplex* GOULD ネズミノテ .....Pl. 33, Fig. 7

1861. *Plicatula simplex* GOULD, Proc. Boston Soc. nat. Hist., vol. VIII, p. 39.—1862. *Plicatula simplex* GOULD: GOULD, Otia conch., p. 178.—1877. *Plicatula cuneata* DUNKER, Malacoz. Bl., Bd. XXIV, p. 73.—1822. *Plicatula cuneata* DKR.: DUNKER, Index Moll. Mar. Japon., p. 246, pl. XI, fig. 3.—1922. *Plicatula cuneata* DUNKER: YOKOYAMA, Foss. Kazusa Shimosa, p. 180, pl. XIV, fig. 25.—1964. *Plicatula simplex* GOULD: JOHNSON, U. S. nat. Mus., Bull. 239, p. 149, pl. 25, fig. 4 (lectotype).

Fossil occurrence.—Kamenari. Ecology.—P 26-35, J -37. N<sub>1-2</sub>. gS.

*Plicatula horrida* DUNKER イシガキモドキ .....Pl. 31, Figs. 3, 4

1882. *Plicatula horrida* DUNKER, Index. Moll. Mar. Japon., p. 247, pl. XI, figs. 6, 7.—1882. *Plicatula rugosa* DUNKER, Id., p. 247, pl. XI, fig. 5, (non *P. rugosa* LAMARCK, 1819).—1882. *Plicatula irregularis* DUNKER, Id., p. 261, new name for *P. rugosa* DUNKER, non Lamarck.—1924. *Plicatula irregularis* DUNKER, YOKOYAMA, Moll. Coral-Bed., p. 55, pl. IV, figs. 5, 6.

Fossil occurrence.—Numa. Ecology.—P -0-35, J -34+. N<sub>0-1(2)</sub>. R, shR, gR. The record from Yamaguchi Prefecture (J 34) extends the range into Japan Sea.

### Familia Pectinidae

#### Genus *Polynemamussium* HABE, 1951

*Polynemamussium intuscostatum* (YOKOYAMA) モトリニシキ .....Pl. 33, Figs. 1-3

1911. *Pecten similis* LASKY: YOKOYAMA, Jour. Geol. Soc. Tokyo, vol. XVIII, no. 208, p. 3, pl. I, fig. 3.—1920. *Pecten intuscostatus* YOKOYAMA, Foss. Miura [etc.], pp. 156-157, pl. XIII, figs. 9a-b, 10a-b.—1922. *Pecten tenuicostatus* YOKOYAMA, Foss. Kazusa Shimosa, p. 184, pl. XVII, fig. 15.

Fossil occurrence.—Kami-Miyata and Shitô. Ecology.—P 31-41, J -41. N<sub>3-4</sub>B<sub>2</sub>. S.

#### Genus *Chlamys* [RÖDING], 1798

##### Subgenus *Chlamys* s. str.

*Chlamys (Chlamys) cosibensis* (YOKOYAMA) コシバニシキ ...Pl. 32, Figs. 1, 3, 4, 7, 8

1911. *Pecten tigerrinus* MÜLL.: YOKOYAMA, Jour. Geol. Soc. Tokyo, vol. XVIII, no. 208, pp. 3-4, pl. I, figs. 11, 12.—1911. *Pecten coisbensis* YOKOYAMA, Jour. Geol. Soc. Tokyo, vol. XVIII, no. 208, pp. 4-5, pl. I, figs. 3, 4.—1920. *Pecten swiftii* BERN.: YOKOYAMA, Id., pp. 155-156, pl. XIV, fig. 11.—1920. *Pecten tigerrinus* MÜLLER: YOKOYAMA, Foss. Miura [etc.], pp. 154-155, pl. XIV, figs. 5, 6.—1920. *Pecten cosibensis* YOKOYAMA: YOKOYAMA, Id., p. 156, pl. XIII, figs. 7, 8.

Fossil occurrence.—Koshihira. Ecology.—Unknown.

*Chlamys (Chlamys) farreri* (JONES & PRESTON) var. アヅマニシキ ..Pl. 32, Figs. 5, 6

1869. *Pecten laetus* GOULD: LISCHKE, Japan. Meer.-Conch., [Bd. I], pp. 169-170, pl. XII, figs. 6, 7.—1920. *Pecten laetus* GOULD: YOKOYAMA, Foss. Miura [etc.], pp. 152-153, pl. XIV, figs. 1, 2. [not YOKOYAMA, 1922].—1932. *Chlamys farreri nipponensis* KURODA, (pars), Venus, vol. III, no. 2, App. p. 91, new name for *Pecten laetus* GOULD, 1861, [non GOULD, 1850], LISCHKE, 1869, YOKOYAMA, 1920, etc.—1904. *Pecten (Chlamys) Farreri* JONES & PRESTON, Proc. malac. Soc. London, vol. VI, pt. III, p. 149, text-fig.

Fossil occurrence.—Yokosuka and Naganuma. Ecology.—P 31-42, J -42. N<sub>1-3</sub>. S, gR.

*Chlamys (Chlamys) farreri akazara* KURODA アカザラガイ .....Pl. 32, Figs. 9, 10

1861. *Pecten laetus* GOULD, Proc. Boston Soc. nat. Hist., vol. VIII, p. 39, [non *P. laetus* GOULD, 1850].—1862. *Pecten laetus* GOULD: GOULD, Otia conch., pp. 177-178, (non pp. 95-96).—1922. *Pecten laetus* GOULD: YOKOYAMA, Foss. Kazusa Shimosa, pp. 180-181, pl. XIV, fig. 26, [not YOKOYAMA, 1920].—1932. *Chlamys farreri nipponensis* KURODA (pars), Venus, vol. III, no. 2, App. p. 91, new name for *Pecten laetus* GOULD, 1861, (non GOULD, 1950), etc.—1932. *Chlamys farreri akazara* KURODA, Id., p. 92, text-fig. 105 [in p. 88].

Fossil occurrence.—Shitô. Ecology.—P 38-42, J 36-44. N<sub>1</sub>. S.

*Chlamys (Chlamys) squamata* (GMELIN) ニシキガイ .....Pl. 32, Figs. 11-12

1791. *Ostrea squamata* GMELIN in LINNAEUS, Syst. Nat., ed. 13, Tom. 1, Pars VI, p. 3329.—  
1920. *Pecten squamatus* GMELIN: YOKOYAMA, Foss. Miura [etc.], pp. 151-152, pl. XIV,  
figs. 3, 4.

Fossil occurrence.—Naganuma. Ecology.—P -0-35, J -37. N<sub>1-3</sub>. R, shR, gS. This species  
attaches itself by byssus to *Charonia sauliae*, *Tonna luteostoma*, *Pecten albicans*, and other  
shells, or stones.

*Chlamys (Chlamys) miurensis* (YOKOYAMA).....Pl. 31, Figs. 7, 8, 12-14

1920. *Pecten miurensis* YOKOYAMA, Foss. Miura [etc.], pp. 157-158, pl. XII, figs. 2-6.

Fossil occurrence.—Zushi. Ecology.—Unknown.

#### Subgenus *Veprichlamys* IREDALE, 1929

*Chlamys (Veprichlamys) jousseaumei* BAVAY ニクイロナデシコ .....Pl. 31, Figs. 9-11

1904. *Chlamys jousseaumei* BAVAY, Jour. Conchyliol., Vol. LII [Ser. 5, Tom. VI], Trimestre 3,  
pp. 203-204, pl. VI, figs. 9, 10.—1911. *Pecten irregularis* SOW.: YOKOYAMA, Jour. Geol.  
Soc. Tokyo, vol. XVIII, no. 208, p. 2, pl. I, figs. 5-7.—1920. *Pecten irregularis* SOWERBY:  
YOKOYAMA, Foss. Miura [etc.], pp. 153-154, pl. XIII, figs. 1-3.

Fossil occurrence.—Koshiha. Ecology.—P -0-36, J -42. N<sub>3-4</sub>. S.

#### Subgenus *Mimachlamys* IREDALE, 1929

*Chlamys (Mimachlamys) nobilis* (REEVE) ヒオオギ .....Pl. 32, Fig. 2

1852. *Pecten nobilis* REEVE, Conch. Icon., vol. VII, *Pecten*, sp. 3, pl. I, fig. 3.—1920. *Pecten*  
*crassicostatus* SOWERBY: YOKOYAMA, Foss. Miura [etc.], p. 153, pl. XII, fig. 7.

Fossil occurrence.—Naganuma. Ecology.—P 23-35, J -37. N<sub>1(2-4)</sub>. gS, R.

#### Subgenus *Semipallium* JOUSSEAUME, 1928

*Chlamys (Semipallium) quadrilirata* (LISCHKE) タジマニシキ .....Pl. 33, Fig. 4

1870. *Pecten quadriliratus* LISCHKE, Malacoz. Bl., Bd. XVII, II, p. 29.—1871. *Pecten qua-*  
*driliratus* LISCHKE: LISCHKE, Japan. Meer.-Conch., Bd. II, pp. 158-159, pl. IX, figs. 5, 6.  
—1924. *Pecten quadriliratus* LISCHKE: YOKOYAMA, Moll. Coral-Bed., p. 57, pl. IV, fig. 10

Fossil occurrence.—Kôyatsu. Ecology.—P -0-35, J -37. N<sub>1-2</sub>. gS.

#### Genus *Aequipecten* FISCHER (P.), 1887

##### Subgenus *Excellichlamys* IREDALE, 1939

*Aequipecten (Excellichlamys) spectabilis* (REEVE) チヒロガイ .....Pl. 34, Fig. 7

1853. *Pecten spectabilis* REEVE, Conch. Icon., vol. VIII, *Pecten*, sp. 128, pl. XXIX, fig. 128.—  
1924. *Pecten spectabilis* REEVE: YOKOYAMA, Moll. Coral-Bed., p. 56, pl. IV, fig. 7.

Fossil occurrence.—Numa. Ecology.—P -0-35<sup>+</sup>, J -37. N<sub>1-2</sub>. S, gR. The range extends to  
Sagami Bay (P 35) by my material.

Subgenus *Cryptopecten* DALL, BARTSCH & REHDER, 1938

*Aequipecten (Cryptopecten) vesiculosus* (DUNKER) ヒヨクガイ .....Pl. 34, Figs. 1-3

1877. *Pecten vesiculosus* DUNKER, Malakoz. Bl., Bd. XXIV, p. 72.—1882. *Pecten vesiculosus* DKR.: DUNKER, Index Moll. Mar. Japon., p. 241, pl. XI, fig. 1.—1911. *Pecten vesiculosus* DKR.: YOKOYAMA, Jour. Geol. Soc. Tokyo, vol. XVIII, no. 208, pp. 1-2, pl. I, figs. 8-10.—1920. *Pecten vesiculosus* DUNKER: YOKOYAMA, Foss. Miura [etc.], p. 154, pl. XIII, figs. 11-13.

Fossil occurrence.—Koshiha. Ecology.—P -0-35, J -41.  $N_{(2)3-4}$ ,  $B_{2-4}$ . cS, gS. Free living. The illustrated specimen from Koshiha belongs to the deeper type.

*Aequipecten (Cryptopecten) sematensis* OYAMA セマタヒヨク .....Pl. 34, Figs. 9, 10

1922. *Pecten tissoti* BERNARDI: YOKOYAMA, Foss. Kazusa Shimosa, p. 182, pl. XV, figs. 1, 2.—1954. *Aequipecten (Cryptopecten) sematensis* OYAMA in TAKI & OYAMA, Plioc. & later Faunas, p. 35, pl. 35, figs. 1, 2, new name for *Pecten tissoti* BERNARDI sensu YOKOYAMA.

Fossil occurrence.—Shitô. Ecology.—Unknown.

Genus *Decatopecten* SOWERBY (G. B. II), 1839

*Decatopecten striatus* (SCHUMACHER) キンチャクガイ .....Pl. 33, Figs. 5, 6

1817. *Pallium striatum* SCHUMACHER, Essais nouv. Syst. Vers test., p. 120, pl. IV, fig. 4.—1922. *Pecten subplicatus* SOWERBY: YOKOYAMA, Foss. Kazusa Shimosa, p. 181, pl. XV, fig. 3.—1924. *Pecten plica* (LINNÉ): YOKOYAMA, Moll. Coral-Bed., p. 56, pl. IV, fig. 11.

Fossil occurrence.—Kioroshi and Numa. Ecology.—P ?-0-35, J -39+.  $N_{1-2}$ . gshS, R. Free living. Funakoshi (J 39) is the northern record of this species.

Genus *Pecten* MÜLLER (O. F.), 1776Subgenus *Notovola* FINLAY, 1926

*Pecten (Notovola) albicans albicans* (SCHRÖTER)

イタヤガイ .....Pl. 33, Figs. 9, 11; Pl. 34, Figs. 8, 11

1802. *Ostrea albicans* SCHRÖTER, Arch. f. Zool. (WIEGEMANN), III (1), p. 136 (fide SHERBORN, 1923).—1842. *Pecten laqueatus* SOWERBY (G. B. II), Thes. Conch., vol. I, pt. 2, p. 46, pl. XIV, figs. 9, 10.—1920. *Pecten laqueatus* SOWERBY: YOKOYAMA, Foss. Miura [etc.], p. 160, pl. XIV, figs. 9, 10.—1922. *Pecten excavatus* ANTON: YOKOYAMA, Foss. Kazusa Shimosa, pp. 183-184, pl. XV, figs. 6, 7.

Fossil occurrence.—Kami-Miyata, Shimo-Miyata and Shitô. Ecology.—P 25+ -42, J -43+.  $N_{1-4}$ , S, mS. Free living. The range extends to western Okinawa Islands by my material, and Oshoro, Hokkaido, by Sasaki.

*Pecten (Notovola) albicans naganumanus* YOKOYAMA

.....Pl. 33, Figs. 8, 10; Pl. 34, Fig. 4

1920. *Pecten naganumanus* YOKOYAMA, Foss. Miura [etc.], pp. 160-161, pl. XIII, figs. 4-6.

Fossil occurrence.—Naganuma. Ecology.—Unknown.



Subgenus *Mizuhopecten* MASUDA, 1963

- Pecten (Mizuhopecten) yessoensis* JAY var. ホタテガイ .....Pl. 35, Figs. 3, 6  
 1857. *Pecten yessoensis* JAY, Narr. Exped. China Sea and Japan, vol. II, pp. 293-294, pl. III, figs. 3, 4; pl. IV, figs. 1, 2.—1911. *Pecten yessoensis* JAY: YOKOYAMA, Jour. Geol. Soc. Tokyo, vol. XVIII, no. 208, pp. 2-3, pl. I, figs. 13, 14.—1920. *Pecten yessoensis* JAY: YOKOYAMA, Foss. Miura [etc.], p. 159, pl. XIII, figs. 14, 15.  
 Fossil occurrence.—Koshiba. Ecology.—P (35-)37-45, J 36-46. N<sub>1</sub>. gS, S, mS. Free living.
- Pecten (Mizuhopecten) tokyoensis* TOKUNAGA .....Pl. 35, Figs. 4, 7  
 1906. *Pecten tokyoensis* TOKUNAGA, Foss. Env. Tokyo, pp. 65-66, pl. V, figs. 1-10.—1920. *Pecten tokyoensis* TOKUNAGA: YOKOYAMA, Foss. Miura [etc.], p. 158-159, pl. XIV, figs. 7, 8.  
 Fossil occurrence.—Naganuma and Kami-Miyata. Ecology.—Unknown.

Subgenus *Yabepecten* MASUDA, 1963

- Pecten (Yabepecten) tokunagai* YOKOYAMA.....Pl. 35, Fig. 5  
 1911. *Pecten Tokunagai* YOKOYAMA, Jour. geol. Soc. Tokyo, vol. XVIII, no. 208, p. 4, pl. I, fig. 1.—1920. *Pecten tokunagai* YOKOYAMA: YOKOYAMA, Foss. Miura [etc.], p. 158, pl. XII, fig. 1.  
 Fossil occurrence.—Koshiba. Ecology.—Unknown.

## Familia Spondylidae

Genus *Spondylus* LINNAEUS, 1758

- Spondylus cruentus* LISCHKE チリボタン .....Pl. 35, Figs. 1, 2  
 1868. *Spondylus cruentus* LISCHKE, Malacoz. Bl. Bd. XV, V, pp. 221-222.—1869. *Spondylus cruentus* LISCHKE: LISCHKE, Japan. Meer.-Conch., Bd. 1, pp. 172-174, pl. XII, figs. 1-5.—1922. *Spondylus cruentus* LISCHKE: YOKOYAMA, Foss. Kazusa Shimosa, p. 179, pl. XIV, fig. 24.—1924. *Spondylus cruentus* LISCHKE: YOKOYAMA, Moll. Coral-Bed., p. 55, pl. V, fig. 12.  
 Fossil occurrence.—Kôyatsu and Ôtake. Ecology.—P 26? 30-39, J -41<sup>+</sup>. N<sub>0-1</sub>. R. The record from Tsugaru Strait (J 41) marks the northern limit along Tsushima Current.

## Familia Limidae

Genus *Limatula* WOOD (S.), 1839Subgenus *Stabilima* IREDALE, 1939

- Limatula (Stabilima) japonica* ADAMS (A.) ニホンユキバナガイ .....Pl. 34, Fig. 6  
 1863. *Limatula japonica* ADAMS (A.), Proc. Zool. Soc. London, 1863, no. XXXII, p. 509.—1920. *Lima japonica* A. ADAMS: YOKOYAMA, Foss. Miura [etc.], p. 149, pl. XII, fig. 9.—1961. *Limatula (Stabilima) japonica* A. ADAMS: HABA, Prof. MAKIYAMA mem. vol., p. 192, pl. 2, figs. 22, 23; Pl. 4, figs. 14.  
 Fossil occurrence.—Nojima. Ecology.—P 25<sup>+</sup>-41, J -42. N<sub>3-4</sub>B<sub>2-4</sub>. S. The range extends to western Okinawa Islands (P 25) by my material.

Subgenus *Limatula* s. str.

*Limatula (Limatula) kurodai* OYAMA クロダユキバネガイ .....Pl. 34. Fig. 5

1920. *Lima subauriculata* MONT.: YOKOYAMA, Foss. Miura [etc.], p. 150, pl. XII, figs. 10a-c.  
—1943. *Limatula kurodai* OYAMA, Conch. Asiat., vol. 1, pp. 24-25, pl. 1, figs. 18a, b;  
pl. 14, fig. 1.

Fossil occurrence.—Kami-Miyata. Ecology.—P 30-35, J -37. N<sub>1-4</sub>B<sub>2</sub>. fS.

Genus *Limaria* LINK. 1807

(Group *Submantellum* OLSSON & HARBISON. 1953)

*Limaria hakodatensis* (TOKUNAGA) フクレユキミノ .....Pl. 36. Fig. 5

1906. *Lima hakodatensis* TOKUNAGA, Foss. Env. Tokyo, p. 64, pl. III, figs. 27a, b.—1920.

*Lima angulata* SOWERBY: YOKOYAMA, Foss. Miura [etc.], pp. 148-149, pl. XII, figs. 12a, b.  
Fossil occurrence.—Naganuma. Ecology.—P 25<sup>+</sup>-42. N<sub>1-2</sub>. gS, S, M. The range extends  
to western Okinawa Islands (P 25) by my material.

Genus *Lima* BRUGUIÈRE. 1797

*Lima sowerbyi* DESHAYES オオミノガイ .....Pl. 36. Fig. 3

1843. *Lima squamosa* LAMARCK var.: SOWERBY (G. B. II), Thes. Conch., vol. 1, pt. 3, p. 84-  
85, pl. XXI, fig. 18.—1863. *Lima Sowerbyi* DESHAYES, Catal. Moll. Réunion, p. 30, new  
name for *Lima squamosa* LAMARCK sensu SOWERBY, 1843.—1924. *Lima lima* (LINNÉ):  
YOKOYAMA, Moll. Coral-Bed., p. 54, pl. III, fig. 13.—1954. *Lima* (s. s.) *sowerbyi sower-*  
*byi* DESHAYES: TAKI & OYAMA, Plioc. & later Faunas, p. 36, pl. 40, fig. 13.

Fossil occurrence.—Numa. Ecology.—P -0-33<sup>+</sup>. N<sub>1</sub>. R. The range extends to Shionomi-  
saki, Kii Peninsula, by my own collection.

*Lima zushiensis* YOKOYAMA モクハチミノガイ .....Pl. 36. Fig. 6

1920. *Lima zushiensis* YOKOYAMA, Foss. Miura [etc.], p. 148, pl. XIII, fig. 8.

Fossil occurrence.—Zushi. Ecology.—P 32<sup>+</sup>-35, J 32<sup>+</sup>-37. N<sub>1-4</sub>. S, R, gR. The southern  
limits are extended to Kashiwajima (P 32) by Sakurai and Amakusa (J 32) by HABA *et al.*

*Lima quantoensis* YOKOYAMA カントウミノガイ .....Pl. 36. Fig. 4

1920. *Lima quantoensis* YOKOYAMA, Foss. Miura [etc.], pp. 150-151, pl. XII, fig. 11.

Fossil occurrence.—Koshiba. Ecology.—P 35<sup>+</sup>, J 33<sup>+</sup>. This species occurs in Sagami Bay  
(P 35) and Goto Islands (J 33) as evidenced by my material and SAKURAI collection, respec-  
tively.

*Lima vulgatula* YOKOYAMA チビミノガイ .....Pl. 36. Figs. 1, 2

1922. *Lima vulgatula* YOKOYAMA, Foss. Kazusa Shimosa, p. 179, pl. XVII, figs. 18, 19.

Fossil occurrence.—Shitô. Ecology.—Unknown.

Genus *Acesta* ADAMS (H.) & ADAMS (A.), 1858

*Acesta goliath* SOWERBY (G. B. II) オオハネガイ .....Pl. 36, Figs. 7, 8

1883. *Lima goliath* SOWERBY (G. B. II), Proc. Zool. Soc. London, 1883, no. II, p. 30, pl. VII, fig. 3.—1920. *Lima goliath* SOWERBY: YOKOYAMA, Foss. Miura [etc.], pp. 147-148, pl. XVI, figs. 7, 8a-b.

Fossil occurrence.—Koshiha. Ecology.—P 34<sup>+</sup>-41<sup>+</sup>, J 35<sup>+</sup>-42. N<sub>4</sub>B. R, S. This species ranges from the sea off Mie Prefecture (P 34) to Toyoura (P 41), Ojima Peninsula, and off Fukui Prefecture (J 35).

Genus *Ctenoides* MÖRCH, 1858

*Ctenoides lischkei* (LAMY) ハネガイ .....Pl. 36, Fig. 9

1877. *Lima Japonica* DUNKER, Malakoz. Bl., Bd. XXIV, p. 70.—1882. *Lima Japonica* DKR.: DUNKER, Index Moll. Mar. Japon., p. 245, pl. XI, figs. 8, 9.—1885. *Lima dunkeri* SMITH (E. A.), Challenger Rep., Zool., vol. XIII, p. 291, new name for *Lima japonica* DUNKER, non (A. ADAMS) SOWERBY; non *Lima dunkeri* HAGENOW, 1842.—1924. *Lima dunkeri* SMITH: YOKOYAMA, Moll. Coral-Bed., p. 54, pl. V, fig. 19.—1930. *Lima (Ctenoides) Lischkei* LAMY, Jour. Conchylol., Vol. LXXIV [Ser. 4, Tom. XXVIII], no. 3, pp. 196-197, new name for *Lima dunkeri* SMITH non HAGENOW.

Fossil occurrence.—Numa. Ecology.—P -0-35, J -41. N<sub>1-3</sub>. C, R, G, S.

## Superfamilia Anomiacea

## Familia Anomiidae

Genus *Anomia* LINNAEUS, 1758

*Anomia cytaeum* GRAY ナミマガシワ .....Pl. 28, Figs. 2, 3, 6

1850. *Anomia cytaeum* GRAY, Proc. Zool. Soc. London, pt. XVII (1849), no. CXCVII, p. 115. —1920. *Anomia cytaeum* GRAY var., YOKOYAMA, Foss. Miura [etc.], p. 146, pl. XI, fig. 17.—1920. *Anomia nipponensis* YOKOYAMA, Id., pp. 146-147, figs. 18a, 18b, 19a, 19b.

Fossil occurrence.—Koshiha, Motowada and Naganuma. Ecology.—P 23-42, J -45. N<sub>0-1</sub>. R, gR, shS.

Genus *Monia* GRAY, 1850

*Monia umbonata* (GOULD) シマナミマガシワモドキ .....Pl. 28, Figs. 1, 4, 5

1861. *Placunanomia umbonata* GOULD, Proc. Boston Soc. nat. Hist., vol. VIII, pp. 39-40.—1862. *Placunanomia umbonata* GOULD: GOULD, Otia conch., p. 178.—1914. *Placunanomia radiata* SOWERBY (G. B. III), Ann. Mag. nat. Hist., ser. 8, vol. XIV, no. 79, p. 38, pl. II, fig. 15.—1922. *Anomia lunata* YOKOYAMA, Foss. Kazusa Shimosa, p. 177, pl. XIV, figs. 22, 23.—1922. *Anomia sematana* YOKOYAMA, Id., p. 177, pl. XIV, figs. 20, 21.—1954. *Monia radiata* (Sowerby): TAKI & OYAMA, Plioc. and later Faunas, p. 37, pl. 34, figs. 20-23.

Fossil occurrence.—Shitô and Ôtake. Ecology.—P 25<sup>+</sup>-35, J -43. N<sub>1-4</sub>B<sub>2</sub>. R, gR, shR. The range extends to western Okinawa Islands by my material.

## Superfamilia Ostreacea

## Familia Ostreidae

Genus *Pycnodonte* FISCHER VON WALDHEIM, 1834

*Pycnodonte musashiana* (YOKOYAMA) ベツコウガキ .....Pl. 28, Fig. 7-11, 13

1920. *Ostrea musashiana* YOKOYAMA, Foss. Miura [etc.], p. 163, pl. XVI, figs. 1-5.—1922.

*Ostrea musashiana* YOKOYAMA: YOKOYAMA, Foss. Kazusa Shimosa, p. 185, pl. XV, fig. 5. Fossil occurrence.—Koshiba, Yokosuka and Shitô. Ecology.—P 25<sup>+</sup>-36, J -42<sup>+</sup>. N<sub>2-4</sub>, B<sub>2-4</sub>, gcS, shS. The range extends to western Okinawa Islands (P 25) and Kumaishi (J 42), Hokkaido, by my material.

#### Genus *Ostrea* LINNAEUS, 1758

*Ostrea circumpicta* PILSBRY コケゴロモ .....Pl. 28, Figs. 12, 14

1904. *Ostrea circumpicta* PILSBRY, Proc. Acad. Nat. Sci. Philadelphia, 1904, [pt. of July], p. 559, pl. XL, figs. 12, 13.—1920. *Ostrea plicata* CHEMNITZ (pars): YOKOYAMA, Foss. Miura [etc.], p. 163, pl. XVII, figs. 1a, 1b, 3. [not fig. 2]

Fossil occurrence.—Ôtsu. Ecology.—P 31-39, J -40. N<sub>1</sub>. R, Sh.

*Ostrea densamellosa* LISCHKE イタバガキ .....Pl. 30, Fig. 1

1869. *Ostrea densamellosa* LISCHKE, Malacoz. Bl., Bd. XVI, IV, p. 109.—1869. *Ostrea densamellosa* LISCHKE: LISCHKE, Japan. Meer.-Conch., [Bd. I], pp. 177-179, pl. XIII; pl. XIV, fig. 1.—1920. *Ostrea gigas* THUNBERG (pars): YOKOYAMA, Foss. Miura [etc.], p. 162, pl. XV, figs. 1, 2, [not 3, 4], [not *Ostrea densamellosa* LISCHKE sensu YOKOYAMA, 1920]

Fossil occurrence.—Yokosuka. Ecology.—P 23-39, J -42. Ch 20<sup>+</sup>-39<sup>+</sup>. N<sub>1</sub>. S, mS.

*Ostrea folium* LINNAEUS ワニガキ .....Pl. 29, Fig. 2

1758. *Ostrea Folium* LINNAEUS, Syst. Nat., ed. 10, Tom. 1, p. 699.—1924. *Ostrea cucullata* (BORN): YOKOYAMA, Moll. Coral-Bed., pp. 57-58, pl. IV, figs. 12, 13.

Fossil occurrence.—Numa. Ecology.—P -0-35<sup>+</sup>. N<sub>0-1</sub>. C, Go. The range extends to Sagami Bay (P 35) by my own collection.

*Ostrea crenulifera* REEVE ノコギリガキ.....Pl. 31, Figs. 1, 2, 5, 6

1871. *Ostrea crenulifera* SOWERBY (G. B. II) in REEVE, Conch. Icon., vol. XVIII, *Ostrea*, sp. 67, pl. XXVII, figs. 67a, b.—1924. *Ostrea crenulifera* REEVE: YOKOYAMA, Moll. Coral-Bed., p. 58, pl. V, figs. 1-4.

Fossil occurrence.—Numa. Ecology.—P 23-35, J -32<sup>+</sup>. Ch 18<sup>+</sup>-30<sup>+</sup>. N<sub>1</sub>. Sh.

#### Genus *Crassostrea* SACCO, 1897

*Crassostrea gigas* (THUNBERG) マガキ.....Pl. 29, Figs. 1, 4; Pl. 30, Fig. 2

1793. *Ostrea gigas* THUNBERG, K. Vet. Ac. Nya Handl., Bd. XIV, p. 140. (fide SHERBORN, 1902)—1920. *Ostrea gigas* THUNBERG (pars): YOKOYAMA, Foss. Miura [etc.], p. 162, pl. XV, figs. 3, 4, [not 1, 2].—1920. *Ostrea densamellosa* LISCHKE: YOKOYAMA, Id., p. 162, pl. XVI, figs. 6a, b.—1920. *Ostrea plicata* CHEMNITZ (pars): YOKOYAMA, Id., p. 163, pl. XVII, fig. 2 (non figs. 1, 3).

Fossil occurrence.—Yokosuka and Ôtsu. Ecology.—P 23-43, J -46, Ch 20-40. N<sub>0</sub>. R, shS.

Ordo Heterodonta  
Subordo Veneroida  
Superfamilia Astartacea  
Familia Astartidae  
Genus *Astarte* SOWERBY (J.), 1816  
Subgenus *Astarte* s. str.

*Astarte (Astarte) hakodatensis* YOKOYAMA ハコダテシラオガイ .....Pl. 37, Figs. 1, 2

1920. *Astarte hakodatensis* YOKOYAMA, Foss. Miura [etc.], pp. 140-141, pl. XI, figs. 5a-c, 6a-c.  
Fossil occurrence.—Koshiha. Ecology.—P 35?-70, J 32-70.

Subgenus *Tridonta* SCHUMACHER, 1817

*Astarte (Tridonta) borealis* (SCHUMACHER) エゾシラオガイ .....Pl. 37, Fig. 4

1817. *Tridonta borealis* SCHUMACHER, Essai nov. Syst. Vers test., pp. 147-148, pl. XV, fig. 4.  
—1922. *Astarte borealis* SCHUMACHER: YOKOYAMA, Foss. Kazura Shimosa, p. 163, pl. X, figs. 11a-b.

Fossil occurrence.—Shitô. Ecology.—P 37-50, J 35-46. The range of the Pacific side should be changed: from Miyagi Prefecture (P 37) to North Chishima (P 50). The occurrence of "P 35" in the previous record is doubtful.

Familia Crassatellidae

Genus *Crassatella* LAMARCK, 1799

Subgenus *Eucrassatella* IREDALE, 1924

*Crassatella (Eucrassatella) nana* ADAMS & REEVE

スダレモシオ .....Pl. 37, Figs. 5, 8-10

1850. *Crassatella nona* ADAMS & REEVE, Zool. Voy. "Samarang", Moll., pp. 81-82, pl. XXIII, fig. 2.—1920. *Crassatella heteroglypta* PILSBRY: YOKOYAMA, Foss. Miura [etc.], pp. 141-142, pl. XI, figs. 10, 11.—1922. *Crassatella nana* ADAMS et REEVE: YOKOYAMA, Foss. Kazusa Shimosa, pp. 164-165, pl. XIII, fig. 8.—1927. *Crassatella nana* A. ADAMS et REEVE: YOKOYAMA, Moll. Tokyo [etc.], p. 434, pl. XLIX, fig. 11.

Fossil occurrence.—Naganuma, Kioroshi and Shinagawa. Ecology.—P 25<sup>+</sup>-35, J -37. N<sub>1-3</sub>, mS. The range extends to western Okinawa Islands (P 25) by my material.

Subgenus *Crassatina* KOBELT, 1881

*Crassatella (Crassatina) oblongata* YOKOYAMA ワタゾコモシオガイ ..Pl. 37, Figs. 3, 6

1920. *Crassatella oblongata* YOKOYAMA, Foss. Miura [etc.], pp. 142-143, pl. XI, figs. 8, 9.

Fossil occurrence.—Koshiha. Ecology.—P 26<sup>+</sup>-35, J -36. N<sub>4</sub>B<sub>2</sub>. shS. The southern limit extends to western Okinawa Islands (P 26) by my material.

Familia Carditidae

Genus *Venericardia* LAMARCK, 1801

Subgenus *Cyclocardia* CONRAD, 1867

*Venericardia (Cyclocardia) ferruginea* ((ADAMS (A.)) CLESSIN)

クロマルフミガイ .....Pl. 37, Figs. 12, 15

1888. *Cardita ferruginea* ADAMS [MS.]: CLESSIN in MARTINI *et al.*, Syst. Conch.-Cab., Bd X., Abt. 1, p. 17, pl. 6, fig. 11.—1920. *Venericardia ferruginea* A. ADAMS: YOKOYAMA, Foss. Miura [etc.], pp. 139-140, pl. XI, figs. 3a-c, 4a-c.

Fossil occurrence.—Kikkozan. Ecology.—P 33-42, J 32-42. [N<sub>3</sub>] [S]

Subgenus *Megacardita* SACCO. 1899*Venericardia (Megacardita) ferruginosa* (ADAMS & REEVE)

フミガイ .....Pl. 37, Figs. 7, 11

1850. *Cardita ferruginosa* ADAMS & REEVE, Zool. Voy. "Samarang", Moll., p. 76, pl. XXI, fig. 21.—1920. *Venericardia cipangoana* YOKOYAMA, Foss. Miura [etc.], pp. 137-139, pl. XI, figs. 2a-c.—1922. *Venericardia cipangoana* YOKOYAMA: YOKOYAMA, Foss. Kazusa Shimosa, p. 162, pl. XIII, fig. 4.

Fossil occurrence.—Naganuma and Ôtake. Ecology.—P 25<sup>+</sup>-35, J -41. N<sub>1-4</sub>. S. The range extends to western Okinawa Islands (P 25) by my material.

Genus *Cardita* BRUGUIÈRE, 1792*Cardita leana* DUNKER トマヤガイ .....Pl. 38, Figs. 2-4

1860. *Cardita Leana* DUNKER, Malacoz. Bl., Bd. VI (1859), p. 223.—1860. *Cardita Cumingiana* DUNKER, Id., p. 223.—1861. *Cardita leana* DKR.: DUNKER, Moll. Japon., p. 29, pl. III, fig. 17.—1861. *Cardita cumingiana* DKR.: DUNKER, Id., p. 29, pl. III, fig. III, fig. 18.—1920. *Cardita cumingiana* DUNKER: YOKOYAMA, Foss. Miura [etc.], p. 137, pl. X, figs. 15a-c; pl. XI, figs. 1a-c.—1924. *Cardita crassicostata* [-ta] LAMARCK: YOKOYAMA, Moll. Coral-Bed., p. 51, pl. III, fig. 12.

Fossil occurrence.—Yokosuka and Numa. Ecology.—P 23-41, J -41. N<sub>0-1</sub>. R.

*Cardita nodulosa* LAMARCK モモイロトマヤガイ .....Pl. 38, Fig. 1

1819. *Cardita nodulosa* LAMARCK: Hist. nat. Anim. s. Vert., Tom. VI, Pt. 1, p. 25.—1920. *Cardita variegata* BRUGUIÈRE: YOKOYAMA, Foss. Miura [etc.], pp. 136-137, pl. X, figs. 16a-c.

Fossil occurrence.—Shimo-Miyata. Ecology.—P 25<sup>+</sup>-35, J -42<sup>+</sup>. N<sub>4</sub>. shS. The southern limit is extended by my material to western Okinawa Islands (P 25) and the northern one to Kumaishi (J 42) on the Japan Sea side.

Genus *Carditella* SMITH, 1881Subgenus *Carditellopsis* IREDALE, 1936*Carditella (Carditellopsis) toneana* (YOKOYAMA) ケシフミガイ .....Pl. 37, Figs. 13, 14

1922. *Venericardia toneana* YOKOYAMA, Foss. Kazusa Shimosa, p. 163, pl. XIII, figs. 6, 7.

Fossil occurrence.—Shitô. Ecology.—P 33-39, J 33<sup>+</sup>. This species was reported from Genkai-Nada by TAKAHASHI *et al.*,

## Superfamilia Corbiculacea

## Familia Corbiculidae

Genus *Corbicula* MEGERLE VON MÜHLFELD, 1811Subgenus *Corbicula* s. str.*Corbicula (Corbicula) japonica* PRIME ヤマトシジミ .....Pl. 37, Figs. 19-22

1864. *Corbicula Japonica* PRIME, Ann. Lyc. nat. Hist., N. Y., vol. VIII, p. 68, fig. 15, (fide PRIME, 1869).—1922. *Corbicula sandaiformis* YOKOYAMA, Foss. Kazusa Shimosa, pp. 165-166, pl. XIII, figs. 14, 15.—1922. *Corbicula kobelti* YOKOYAMA, Id., p. 166, pl. XIII, figs. 18, 19.

Fossil occurrence.—Shitô. Ecology.—Lagoons, estuaries and other brackish water bottoms. (P 30-43, J -50. N<sub>1</sub>. S, M).

## Superfamilia Arcticea

## Familia Kellyellidae

Genus *Alvenius* CONRAD, 1865*Alvenius ojanus* (YOKOYAMA) ケシトリガイ .....Pl. 42, Figs. 5, 6

1927. *Kellia (?) ojana* YOKOYAMA, Moll. Tokyo [etc.], p. 432, pl. L, figs. 7, 8.

Fossil occurrence.—Ôji. Ecology.—P 33-42, J 32<sup>+</sup>-42. N<sub>1</sub>. S, M. This species was reported from Amakusa (P 32) by HABA.

## Superfamilia Trapeziacea

## Familia Trapeziidae

Genus *Trapezium* MEGERLE VON MÜHLFELD, 1811Subgenus *Neotrapezium* HABA, 1951*Trapezium (Neotrapezium) liratum* (REEVE)

ニツボンタガソデモドキ .....Pl. 38, Figs. 5, 7, 9

1843. *Cypricardia lirata* REEVE: REEVE, Conch. Icon., vol. 1, *Cypricardia*, sp. 1, pl. 1, fig. 1. —1922. *Trapezium nipponicum* YOKOYAMA (pars), Foss. Kazusa Shimosa, p. 167, pl. XIII, fig. 17; not p. viii (next to index), pl. VI, figs. 12, 13.—1922. *Trapezium ventricosum* YOKOYAMA, Id., p. 168, pl. XIII, figs. 1a, 1b.—1922. *Trapezium liratum* (REEVE), YOKOYAMA, Id., p. 168, pl. XIII, fig. 16.

Fossil occurrence.—Ôtake and Shitô. Ecology.—Unknown.

*Trapezium (Neotrapezium) [liratum forma?] japonicum* PILSBRY

ウネナシトマヤガイ .....Pl. 38, Fig. 8

[? 1843. *Trapezium liratum* REEVE, see preceding form]—1905. *Trapezium japonicum* PILSBRY, Proc. Acad. nat. Sci. Philadelphia, 1905 [part of Feb.], pp. 119-120, pl. V, figs. 34-36.—1922. *Coralliophaga coralliophaga* (CHEMNITZ): YOKOYAMA, Foss. Kazusa Shimosa, pp. 166-167, pl. XIV, fig. 5.

Fossil occurrence.—Shitô. Ecology.—P 23-39, J -37. N<sub>0</sub>. R, Sh.

Remark.—This form has been recently believed to be a synonym of the preceding species. All the living specimens which I have seen belong to this form and all of them are longer than typical *T. liratum* and have more strongly sculptured surface.

Genus *Coralliophaga* BLAINVILLE, 1824

*Coralliophaga coralliophaga* (GMELIN) サングクイ .....Pl. 38, Fig. 6

1791. *Chama coralliophaga* GMELIN in LINNAEUS, Syst. Nat., ed. 13, Tom. I, Pars VI, p. 3305.  
—1924. *Coralliophaga coralliophaga* (CHEMNITZ): YOKOYAMA, Moll. Coral-Bed., pp. 51-52, pl. III, fig. 9.—[not 1922. *Coralliophaga coralliophaga* (CHEMNITZ) sensu YOKOYAMA, see *Trapezium* (*Neotrapezium*) *japonicum* PILSBRY]

Fossil occurrence.—Numa. Ecology.—P -0-33-. J -40. N<sub>1</sub>. C. The northern limit of the Pacific side is probably Kii Peninsula (P 33), because no example of this species been found in my collection from Izu, Miura and Bôshô Peninsulæ.

## Superfamilia Cyamiacea

## Familia Sportellidae

Genus *Anisodonta* DESHAYES, 1856Subgenus *Anisodonta* s. str.

*Anisodonta* (*Anisodonta*) *recluzi* ADAMS (A.) ハマカゼガイ .....Pl. 38, Figs. 18, 19

1864. *Eucharis recluzi* ADAMS (A.), Ann. Mag. nat. Hist., ser. 3, vol. XIII, no. 76, p. 310.  
—1920. *Basterotia trapezium* YOKOYAMA, Foss. Miura [etc.], pp. 108-109, pl. VII, figs. 8a, 8b, 9a, 9b.

Fossil occurrence.—Ôtsu. Ecology.—P 34, J 32<sup>+</sup>. N<sub>1</sub>. This species occurs in Amakusa Islands (J 32), Kyûshû.

Subgenus *Fulcrella* COSSMANN, 1886

*Anisodonta* (*Fulcrella*) *gouldi* (ADAMS (A.)) イソカゼガイ .....Pl. 38, Figs. 16, 17, 21

1864. *Eucharis Gouldi* ADAMS (A.), Ann. Mag. nat. Hist., ser. 3, vol. XIII, no. 76, p. 309.—  
1920. *Basterotia gouldii* (A. ADAMS): YOKOYAMA, Foss. Miura [etc.], p. 108, pl. VII, fig. 7.—1924. *Basterotia gouldii* (A. ADAMS): YOKOYAMA, Moll. Coral-Bed., pp. 39-40, pl. III, figs. 2, 3.

Fossil occurrence.—Ôtsu and Numa. Ecology.—P 26<sup>+</sup>-35<sup>+</sup>, J -33<sup>+</sup>. This species comes from western Okinawa Islands (P 26) as its southern limit and Sagami Bay (P 35), Hibiki-Nada (J 33) and Yanai (J 33) as its northern limits.

## Familia Neoleptonidae

Genus *Eolepton* nov.

Type-species.—*Montacuta* (?) *crassa* YOKOYAMA.

Diagnosis.—Shell small, subtrigonal, thick. The left cardinal teeth strong, rather long; deep resilial pit between them; lateral teeth long, rather wide, but not strongly developed. The right cardinals rather indistinct, with narrow resilial pit and hardly developed laterals. Pallial sinus lacking.

*Eolepton crassa* (YOKOYAMA) コデマリガイ (アツエリキスガイ).....Pl. 41, Figs. 15-17

1927. *Meretrix gordonis* YOKOYAMA (pars), Moll. Tokyo [etc.], pp. 429-430, pl. XLVIII, fig. 13 (not 14).—1927. *Montacuta* (?) *crassa* YOKOYAMA, Id., pp. 432-433, pl. XLIX, figs. 4, 5. Fossil occurrence.—Kuruma-chô and Shinagawa. Ecology.—J 33<sup>+</sup> (Genkai-Nada), otherwise unknown.



## Superfamilia Lucinacea

## Familia Ungulinidae

Genus *Diplodonta* BROWN, 1831Subgenus *Felaniella* DALL, 1899*Diplodonta (Felaniella) usta* (GOULD) ウソシジミ .....Pl. 39, Figs. 7-10

1861. *Mysia (Felania) usta* GOULD, Proc. Boston Soc. nat. Hist., vol. VIII, p. 32.—1862. *Mysia (Felania) usta* GOULD: GOULD, Otia conch., pp. 170-171.—1920. *Diplodonta usta* GOULD: YOKOYAMA, Foss. Miura [etc.], pp. 130-131, pl. IX, figs. 14-16.—1922. *Diplodonta usta* GOULD: YOKOYAMA, Foss. Kazusa Shimosa, p. 159, pl. XIII, fig. 3.—1964. *Mysia (Felania) usta* GOULD, U.S. nat. Mus., Bull. 239, p. 164, pl. 26, fig. 6 (holotype). Fossil occurrence.—Kami-Miyata and Ôtake. Ecology.—P 35-45, J 37-46. The record of "P 33" is to be considered as occurrence of a different species, and Kashima-Nada must, probably, be the southern limit of *D. (F.) usta*.

Subgenus *Diplodonta* s. str.*Diplodonta (Diplodonta) gouldi* YOKOYAMA フタバシラガイ .....Pl. 39, Fig. 11

1920. *Diplodonta gouldi* YOKOYAMA, Foss. Miura [etc.], p. 132, pl. X, figs. 5a-c. Fossil occurrence.—Kami-Miyata. Ecology.—P 32-38.

Subgenus *Phlyctiderma* DALL, 1899*Diplodonta (Phlyctiderma) [indistincta MARTIN var. ?] japonica* PILSBRY

ヤエウメ .....Pl. 39, Fig. 4

- [? 1879. *Cytherea (Dione) indistincta* MARTIN (K.), Tertiärsch. Java, p. 103, pl. XVI, fig. 3.] —1895. *Diplodonta (? semiaspera var.) japonica* PILSBRY, Catal. Mar. Moll. Japan, pp. 132-133, pl. III, figs. 6, 7.—1920. *Diplodonta japonica* PILSBRY: YOKOYAMA, Foss. Miura [etc.], pp. 131-132, pl. X, figs. 4a-b. Fossil occurrence.—Naganuma. Ecology.—P 32+39, J 33-41. N<sub>0-1</sub>. R. The southern limits of this form are Kashiwajima (P 32) and Genkai-Nada (J 33).

Genus *Cycladicama* Valenciennes, 1854(Syn. *Joannisiella* DALL, 1895)*Cycladicama semiasperoides* (NOMURA) マルシオガマ .....Pl. 39, Figs. 3, 6

1920. *Diplodonta semiaspera* (PHILIPPI): YOKOYAMA, Foss. Miura [etc.], p. 131, pl. X, Figs. 2a-b, 3.—1932. *Diplodonta semiasperoides* NOMURA (pars), Sci. Rep. Tohoku Imp. Univ., ser. 2, vol. XV, no. 2, p. 78 (14), new name for *Diplodonta semiaspera* (PHILIPPI) sensu YOKOYAMA, 1920 and 1922. Fossil occurrence.—Koshihira. Ecology.—J 32.

Remark.—*Diplodonta semiaspera* PHILIPPI sensu YOKOYAMA was renamed *D. semiasperoides* NOMURA without designating the holotype. This species contained two forms, *Cycladicama cumingi* HANLEY and the other. KURODA & HABA have recently designated the type locality, but not the type specimen. Here, figure 2 of YOKOYAMA, 1920, is designated as the lectotype of "*D.*" *semiasperoides* NOMURA, in order to avoid future confusion. *Joannisiella semiasperoides* (NOMURA) reported from Suruga Bay by OYAMA, 1943, does not belong to the present species but to the next one.

*Cycladicama cumingi* (HANLEY) シオガマ .....Pl. 39, Fig. 1

1844. *Cyrenoida Cumingi* HANLEY, Cat. Rec. Biv. Shells, p. 353, pl. 15, fig. 5, (fide LAMY, 1920).—1920. *Joannisiella Cumingi* HANLEY: LAMY, Jour. Conchylol., Vol. LXV [4<sup>e</sup> Ser., Tom. XIX], 4<sup>e</sup> Trimestre, p. 383.—1922. *Diplodonta semiaspera* PHILIPP: YOKOYAMA, Foss. Kazusa Shimosa, p. 160, pl. XIV, fig. 2.—1932. *Diplodonta semiasperoides* NOMURA (pars), Sci. Rep. Tohoku Imp. Univ., ser. 2, vol. XV, no. 2, p. 78 (14), new name for *D. semiaspera* PHILIPPI sensu YOKOYAMA, 1920 and 1922.

Fossil occurrence.—Shisui. Ecology.—P 23-35, J -41. N<sub>1-2</sub>. S.

*Cycladicama lunaris* (YOKOYAMA) マンゲツシオガマ .....Pl. 39, Figs. 2, 5

1927. *Diplodonta lunaris* YOKOYAMA, Moll. Tokyo [etc.], p. 433, pl. L, figs. 5, 6.

Fossil occurrence.—Shinagawa. Ecology.—P 33-35, J 32<sup>+</sup>-41. N<sub>1</sub>. mS, sM. This species has been reported from Amakusa (J 32).

## Familia Thyasiridae

Genus *Thyasira* (LEACH) LAMARCK, 1818Subgenus *Thyasira* s. str.*Thyasira* (*Thyasira*) *tokunagai* KURODA & HABE

トクナガハナシガイ .....Pl. 39, Figs. 13, 14, 16

1927. *Thyasira gouldii* (PHILIPPI): YOKOYAMA, Moll. Tokyo [etc.], p. 433, pl. L, fig. 9.—1927. *Thyasira gouldii* (PHILIPPI): YOKOYAMA, Moll. westn. Shimosa [etc.], p. 457, pl. LII, figs. 3, 4.—1951. *Thyasira tokunagai* KURODA & HABE, Illustr. Catal. Japan. Shells, [ser. 1], no. 13, p. 86, new name for *Thyasira gouldii* PHILIPPI, sensu YABE & NOMURA, 1925, Sci. Rep. Tohoku Imp. Univ., ser. 2, vol. VII, no. 4, p. 94 (12), pl. XXIII (I), figs. 6a, b.

Fossil occurrence.—Shinagawa and Namamugi. Ecology.—P 31-64, J 32-41.

Genus *Conchocele* GABB, 1866*Conchocele bisecta* (CONRAD) オオナガイ .....Pl. 39, Fig. 15

1849. *Venus bisecta* CONRAD in DANA, Wilkes, U.S. Expl. Exped. (Wilkes), vol. X, Geol., p. 724 (Geol. Atlas, pl. 17, figs. 10, 10a), (fide GRANT & GALE, 1931).—1927. *Thyasira bisecta* CONRAD: YOKOYAMA, Moll. westn. Shimosa [etc.], p. 457, pl. LII, fig. 11.

Fossil occurrence.—Namamugi. Ecology.—P 32<sup>+</sup>?, 36-56, J 35-42. This species has been reported from Okezoko (P 32), but I doubt whether it lives there or is a derived remain, because the shell is not fresh.

Remarks.—This specimen was probably collected not from the Shimosueyoshi Formation but from the underlying Kazusa Group, because all the other fossils from the Shimosueyoshi indicate very shallow environment and because this species has been found at many other localities of the Kazusa group.

## Familia Lucinidae

Genus *Lucina* BRUGUIÈRE. [1797]*Lucina stearnsiana* OYAMA イセシラガイ .....Pl. 40, Figs. 1, 2

1895. *Loripes bialata* PILSBRY, Catal. Mar. Moll. Japan, pp. 133-134, pl. III, figs. 13, 14.—1927. *Loripes philippiana* (REEVE): YOKOYAMA, Moll. Tokyo [etc.], p. 434, pl. L, figs.

1, 2.—1954. *Lucina stearnsiana* OYAMA in TAKI & OYAMA, Plioc. & later Faunas, pp. 40, 52, pl. 47, figs. 1, 2, new name for *Loripes bialata* PILSBRY, 1895, non *Lucina bialata* BELLARDI, 1854.

Fossil occurrence.—Kuruma-chô. Ecology.—26? 33-41, J 32-41. N<sub>0-1</sub>. sM, M.

#### Genus *Lucinoma* DALL, 1901

*Lucinoma concentricum* (YOKOYAMA) ツキガイモドキ .....Pl. 40, Figs. 8, 11

1920. *Lucina borealis* LINNÉ: YOKOYAMA, Foss. Miura [etc.], pp. 133-134, pl. X, figs. 7a, b.—  
1920. *Woodia concentrica* YOKOYAMA, Id., p. 141, pl. XI, figs. 7a-c.

Fossil occurrence.—Yokosuka and Naganuma. Ecology.—P 31-42+, J -41.

Remark.—This species was often called *L. annulatum* (REEVE) by Japanese authors, with whom I would not agree.

*Lucinoma* [*acutilineatum* forma?] *spectabile* (YOKOYAMA)

オオツキガイモドキ .....Pl. 40, Figs. 5, 9, 10

[? 1849. *Lucina acutilineata* CONRAD, U.S. Expl. Exped. (Wilkes), vol. 10, (Geol.), p. 725, (fide GRANT & GALE, 1931)]. —1920. *Lucina spectabilis* YOKOYAMA, Foss. Miura [etc.], pp. 134-135, pl. X, figs. 10-12.

Fossil occurrence.—Koshiba. Ecology.—P 34+-41, J 32-41. N<sub>3-4</sub>. S. The record of the range in the Check List (KURODA & HABE, 1952) was not correct, because the occurrence of this species from Tateyama Bay (P 34) reported by FUJITA, 1929, was neglected.

#### Genus *Pillucina* PILSBRY, 1921

##### Subgenus *Pillucina* s. str.

*Pillucina* (*Pillucina*) *pisidium* (DUNKER) ウメノハナガイ .....Pl. 40, Fig. 6

1860. *Lucina Pisidium* DUNKER, Malakoz. Bl., Bd. VI (1859), p. 227.—1861. *Lucina pisidium* DKR.: DUNKER, Moll. Japon., pp. 28-29, pl. III, fig. 9.—1920. *Lucina pisidium* DUNKER: YOKOYAMA, Foss. Miura [etc.], pp. 132-133, pl. X, figs. 6a-c.

Fossil occurrence.—Shimo-Miyata. Ecology.—P 22+-42+, K -41. N<sub>0-1</sub>. S, mS, sM. The southern limit of this form is Kaohsung (Takao) (P 22) collected by T. HAYASHI.

##### Subgenus *Sydlorina* IREDALE, 1930

*Pillucina* (*Sydlorina*) *yamakawai* (YOKOYAMA) アラウメノハナガイ .....Pl. 40, Fig. 7

1920. *Lucina yamakawai* YOKOYAMA, Foss. Miura [etc.], pp. 135-136, pl. X, figs. 9a-c.

Fossil occurrence.—Shimo-Miyata. Ecology.—P 31-35, J -37. N<sub>1</sub>. S.

##### Subgenus *Wallucina* IREDALE, 1930

*Pillucina* (*Wallucina*) *striata* (TOKUNAGA) チヂミウメ .....Pl. 40, Fig. 3

1882. *Lucina contraria* DUNKER (G.), Index Moll. Mar. Japon., pp. 215-216, pl. XIII, figs. 12-13, non *L. contraria* DUNKER (W.), 1846.—1920. *Lucina contraria* DUNKER: YOKOYAMA, Foss. Miura [etc.], p. 134, pl. X, figs. 8a-b.—1906. *Lasaea striata* TOKUNAGA, Foss. Env. Tokyo, pp. 53-54, pl. III, figs. 14a, b.—1938. *Wallucina Lamyi* CHAVAN, Jour. Conchylol., vol. LXXXI [sér. 4, tom. XXXVI], no. 3, p. 227, [text-] fig. 19.

Fossil occurrence.—Shimo-Miyata. Ecology.—P 22+–35, J –40+. N<sub>1</sub>. S, mS. The limits should be extended to Kaohsung (Takao) (P 22) and Asamushi (P 40) collected by T. HAYASHI and S. ISHIYAMA, respectively.

Genus *Epicodakia* IREDALE, 1930

*Epicodakia delicatula* (PILSBRY) ウミアサ .....Pl. 40, Fig. 4

1904. *Codakia bella delicatula* PILSBRY, Proc. Acad. Nat. Sci. Philadelphia, 1904, [pt. of July], p. 555, pl. XLI, figs. 15, 16.—1924. *Codakia bella* CONRAD var. *delicatula* PILSBRY: YOKOYAMA, Moll. Coral-Bed, p. 50, pl. III, fig. 8.

Fossil occurrence.—Numa. Ecology.—P –0–35, J –40. N<sub>1</sub>. gS, S.

Superfamilia Leptonacea

Familia Erycinidae

Genus *Melliteryx* IREDALE, 1924

*Melliteryx puncticulata* (YOKOYAMA) ハチミツガイ .....Pl. 41, Figs. 13, 14

1924. *Lepton puncticulatum* YOKOYAMA, Moll. Coral-Bed, pp. 48–49, pl. IV, figs. 8, 8a, 9.

Fossil occurrence.—Numa. Ecology.—P 34–, J 32+–37. The record from Amakusa Islands (J 32) is the southern limit along Tsushima Current.

Genus *Parvikellia* LASERON, 1956

*Parvikellia?* sp. ....Pl. 41, Fig. 12

1927. *Kellia pumila* S. WOOD: YOKOYAMA, Moll. Tokyo [etc.], pp. 431–432, pl. XLIX, figs. 1, 2.

Fossil occurrence.—Kuruma-chō. Ecology.—Unknown.

Familia Kelliidae

Genus *Scintillula* JOUSSEAUME, 1888

*Scintillula yamakawai* (YOKOYAMA) ヤマカワヘノジガイ .....Pl. 41, Fig. 6

1922. *Montacuta?* *yamakawai* YOKOYAMA, Foss. Kazusa Shimosa, p. 158, pl. IX, fig. 10.

Fossil occurrence.—Shisui. Ecology.—P 33.

Genus *Byssobornia* IREDALE, 1936

*Byssobornia striatissima* (SOWERBY (G. B.)) セワケガイ .....Pl. 41, Figs. 19, 21

1865. *Pythina striatissima* SOWERBY (G. B.), Proc. Zool. Soc. London, 1865, no. XXXIII, p. 517, pl. XXXII, fig. 7.—1927. *Galeomma adamsi* YOKOYAMA, Moll. Coral-Bed, pp. 47–47, pl. IV, figs. 3, 4.

Fossil occurrence.—Numa. Ecology.—P 0–34.

Genus *Nesobornia* DALL, BARTSCH & REHDER, 1938

"*Nesobornia*" *nipponica* (YOKOYAMA) ケボリセワケガイ .....Pl. 41, Fig. 20

1924. *Scintilla nipponica* YOKOYAMA, Moll. Coral-Bed, p. 47, pl. IV, fig. 1.

Fossil occurrence.—Numa. Ecology.—Unknown.

"*Nesobornia*" *trigonalis* (YOKOYAMA) .....Pl. 41, Fig. 18

1924. *Scintilla trigonalis* YOKOYAMA, Moll. Coral-Bed, p. 47, pl. IV, fig. 2.  
Fossil occurrence.—Numa. Ecology.—Unknown.

Familia Montacutidae

Genus *Montacutona* YAMAMOTO & HABE, 1959

*Montacutona?* *fujitaniana* (YOKOYAMA) フジタニコハクノツユ .....Pl. 41, Figs. 1, 2

1927. *Kellia fujitainana* YOKOYAMA, Moll. Tokyo [etc.], p. 431, pl. XLVIII, figs. 17, 18.  
Fossil occurrence.—Ôji. Ecology.—Unknown.

*Montacutona subelliptica* (YOKOYAMA) コバンコハクノツユ .....Pl. 41, Figs. 3, 4

1927. *Kellia subelliptica* YOKOYAMA, Moll. Tokyo [etc.], p. 431, pl. XLVIII, figs. 9, 10.  
Fossil occurrence.—Dôkanyama. Ecology.—Unknown.

Genus *Mysella* ANGAS, 1877

*Mysella japonica* (YOKOYAMA) ヤヤトヘノジガイ .....Pl. 41, Figs. 10, 11

1922. *Montacuta japonica* YOKOYAMA, Foss. Kazusa Shimosa, p. 157, pl. IX, figs. 2, 3.  
Fossil occurrence.—Ôtake. Ecology.—P 34-35, J 40?

Genus *Nipponomysella* HABE, 1959

*Nipponomysella oblongata* (YOKOYAMA) マルヘノジガイ .....Pl. 41, Figs. 8, 9

1922. *Montacuta oblongata* YOKOYAMA, Foss. Kazusa Shimosa, pp. 157-158, pl. XIII, figs. 9, 10.  
Fossil occurrence.—Ôji. Ecology.—P 34-42, J 33+037. The record from Hakata Bay (J 33) has changed the southern limit.

*Nipponomysella subtruncata* (YOKOYAMA) スジホシムシヤドリ .....Pl. 41, Fig. 5

1927. *Montacuta subtruncata* YOKOYAMA, Moll. Tokyo [etc.], p. 432, pl. XLVIII, fig. 8.  
Fossil occurrence.—Ôji. Ecology.—P 34. N<sub>1</sub>.

Familia Galeommatidae

Genus *Ambuscintilla* IREDALE, 1936

*Ambuscintilla* sp. ....Pl. 41, Fig. 7

1856. *Scintilla solidula* DESHAYES, Proc. Zool. Soc. London, pt. XXIII (1855), no. CCXCV, p. 174.—1924. *Scintilla solidula* DESHAYES: YOKOYAMA, Moll. Coral-Bed, pp. 46-47, pl. V, fig. 22.  
Fossil occurrence.—Numa. Ecology.—Unknown.

## Superfamilia Chamacea

## Familia Chamidae

Genus *Chama* LINNAEUS, 1758Subgenus *Chama* s. str.

*Chama (Chama) fragum* REEVE イチゴキクザル .....Pl. 42, Figs. 1, 4

1847. *Chama fragum* REEVE, Conch. Icon., vol. IV, *Chama*, sp. 48, pl. IX, fig. 48.—1920. *Chama semipurpurata* LISCHKE: YOKOYAMA, Foss. Miura [etc.], p. 136, pl. X, figs. 13, 14. Fossil occurrence.—Kami-Miyata. Ecology.—P 6.35, J -41+. N<sub>1-4</sub>. R, gS, shS. The range along Tsushima Current should be extended to Fukuyama (J 41) by my record.

*Chama (Chama) aspersa* REEVE キクザル .....Pl. 42, Fig. 3

1846. *Chama aspersa* REEVE, Conch. Icon., vol. IV, *Chama*, sp. 24, pl. V, fig. 24.—1922. *Chama semipurpurata* LISCHKE: YOKOYAMA, Foss. Kazusa Shimosa, pp. 161-162, pl. XIII, fig. 5. Fossil occurrence.—Ôtake. Ecology.—P -0-39, J -41. N<sub>0-1</sub>. R.

Subgenus *Pseudochama* ODHNER, 1917

*Chama (Pseudochama) retroversa* LISCHKE サルノカシラ .....Pl. 42, Fig. 2

1870. *Chama retroversa* LISCHKE, Malacoz. Bl., Bd. XVII, II, pp. 28-29.—1871. *Chama retroversa* LISCHKE: LISCHKE, Japan. Meer.-Conch., Bd. II, p. 131, pl. IX, figs. 1-3.—1924. *Chama retroversa* LISCHKE: YOKOYAMA, Moll. Coral-Bed, pp. 50-51, pl. III, figs. 7a-c. Fossil occurrence.—Numa. Ecology.—P 23-35, J -40. N<sub>0-1</sub>. R.

## Superfamilia Cardiacea

## Familia Cardiidae

## Subfamilia Protocardiinae

Genus *Nemocardium* MEEK, 1876Subgenus *Keenaea* HABE, 1951

*Nemocardium (Keenaea) samarangae* MAKIYAMA シマキンギョ .....Pl. 43, Figs. 2, 3

1850. *Cardium modestum* ADAMS & REEVE, Zool. "Samarang", Moll., p. 77, pl. XXII, fig. 6, (non *Cardium modestum* PHILIPPI, [1849]).—1920. *Cardium modestum* A. ADAMS et REEVE: YOKOYAMA, Foss. Miura [etc.], pp. 128-129, pl. IX, figs. 12a, b, 13.—1934. [*Nemocardium*] *samarangae* MAKIYAMA, Mem. Coll. Sci. Kyoto Imp. Univ., ser. B, vol. X, no. 2, pl. 143, foot-note 2. Fossil occurrence.—Koshiba. Ecology.—P 32-36, J 32-42+. N<sub>3-4</sub>. S.

## Subfamilia Trachycardiinae

Genus *Acrosterigma* DALL, 1900Subgenus *Vasticardium* IREDALE, 1927

*Acrosterigma (Vasticardium) burchardi* (DUNKER) ザルガイ .....Pl. 42, Fig. 9

1877. *Cardium Burchardi* DUNKER, Malakoz. Bl., Bd. XXIV, p. 67.—1882. *Cardium Burchardi* DKR.: DUNKER, Index Moll. Mar. Japon., pp. 210-211, pl. XV, figs. 4-6.—1922. *Cardium*

*burchardi* DUNKER: YOKOYAMA, Foss. Kazusa Shimosa, pp. 153-154, pl. XII, fig. 7.  
Fossil occurrence.—Ôtake. Ecology.—P 31-35, J -40. N<sub>1-2</sub>. S.

Subfamilia Laevicardiinae  
Genus *Clinocardium* KEEN, 1936  
Subgenus *Clinocardium* s. str.

*Clinocardium (Clinocardium) californiense* (DESHAYES)

エゾイシカゲガイ .....Pl. 43, Fig. 7

1839. *Cardium californiense* DESHAYES, Rev. Zool. (Soc. Cuvier), vol. 11, p. 360 (fide SHERBORN, 1924).—1920. *Cardium californiense* DESHAYES: YOKOYAMA, Foss. Miura [etc.], pp. 127-128, pl. IX, figs. 10a, b.

Fossil occurrence.—Kami-Miyata. Ecology.—P 35+-71, J 36-50. The southern limit is Chôshi (P 35) by my collection.

Subgenus *Fuscocardium* nov.

Type-species.—*Cardium braunsi* TOKUNAGA.

Diagnosis.—Shell rather large, inflated, thick. Sculpture consists of heavy radial ribs which are flat-topped and hardly granulated. Hinge fairly arched, provided with strong teeth.

This new subgenus differs from *Clinocardium* s. str. by having heavier sculpture. It is similar to *Dinocardium* DALL, 1900, in the sculpture, but it agrees with *Clinocardium* in the general outline.

*Clinocardium (Fuscocardium) braunsi* (TOKUNAGA)

ブラウンスイシカゲガイ .....Pl. 43, Figs. 1, 4-6. 8

1906. *Cardium braunsi* TOKUNAGA, Foss. Env. Tokyo, p. 51, pl. III, fig. 11.—1920. *Cardium braunsi* TOKUNAGA: YOKOYAMA, Foss. Miura [etc.], pp. 129-130, pl. X, figs. 1a, b.—1922. *Cardium braunsi* TOKUNAGA: YOKOYAMA, Id., p. 155, pl. XIII, fig. 2.—1922. *Cardium tokunagai* YOKOYAMA, Foss. Kazusa Shimosa, pp. 156-157, pl. XII, figs. 4-6.

Fossil occurrence.—Kami-Miyata, Shisui and Ôtake. Ecology.—Unknown.

Genus *Fulvia* GRAY, 1853

*Fulvia mutica* (REEVE) トリガイ .....Pl. 42, Figs. 7, 8

1844. *Cardium muticum* REEVE, Conch. Icon., vol. II, *Cardium*, sp. 32, pl. VI, fig. 32.—1920. *Cardium muticum* REEVE: YOKOYAMA, Foss. Miura [etc.], p. 128, pl. IX, figs. 11a-b.—1922. *Cardium muticum* REEVE: YOKOYAMA, Foss. Kazusa Shimosa, pp. 154-155, pl. XII, fig. 7.

Fossil occurrence.—Ôkine and Ôtake. Ecology.—P 12?-41, J -41. N<sub>1-2</sub>. S, mS, sM.

Subfamilia Fraginae  
Genus *Afrocardium* TOMLIN, 1931

*Afrocardium ebaranum* (YOKOYAMA) ベニバト .....Pl. 42, Fig. 10

1927. *Cardium ebaranum* YOKOYAMA, Moll. Tokyo [etc.], p. 430, pl. XLVIII, fig. 15.

Fossil occurrence.—Shinagawa. Ecology.—P 31-35, J -36. N<sub>1</sub>. gR, sR, S.

## Superfamilia Veneracea

## Familia Veneridae

## Subfamilia Circinae

Genus *Circe* SCHUMACHER, 1817

*Circe yokoyamai* OTUKA ヨコヤマシラオガイ .....Pl. 44, Figs. 6, 8

1920. *Circe scripta* LINNÉ: YOKOYAMA, Foss. Miura [etc.], p. 123, pl. VIII, figs. 15, 16.—  
1937. *Gafrarium yokoyamai* OTUKA, Bull. Earthquake Res. Inst. Tokyo Imp. Univ., vol.  
XV, pt. 4, p. 1007, new name for *Circe scripta* LINNÉ sensu YOKOYAMA.

Fossil occurrence.—Naganuma. Ecology.—Unknown.

## Subfamilia Pitarinae

Genus *Microcirce* HABE, 1951

*Microcirce gordonis* (YOKOYAMA) ミジシラオガイ .....Pl. 45, Fig. 7

[? 1860. *Gouldia dilecta* GOULD, Proc. Boston Soc. Nat. Hist., vol. VIII, p. 32].—[? 1862.  
*Gouldia dilecta* GOULD, Otia conch., p. 170].—1927. *Meretrix gordonis* YOKOYAMA (pars),  
Moll. Tokyo [etc.], pp. 429-430, pl. XLVIII, fig. 14 (non fig. 13).—[? 1964. *Gouldia*  
*dilecta* GOULD: JOHNSON, U.S. Nat. Mus., Bull. 239, p. 68, pl. 29, fig. 4 (holotype)].

Fossil occurrence.—Shinagawa. Ecology.—P 33-42, J 32-42. N<sub>1</sub>. S.

Remark.—HABE, 1960, considered that *M. gordonis* (YOKOYAMA) is a synonym of *Gouldia dilecta* GOULD. The holotype of GOULD'S species illustrated by JOHNSON seems to differ from YOKOYAMA'S species.

Genus *Pitar* RÖMER, 1857Subgenus *Pitarina* JUKES-BROWNE, 1913

*Pitar (Pitarina) limatula* (SOWERBY (G. B. II)) マダライオウハマグリ ....Pl. 45, Fig. 5

1851. *Cytheraea limatula* SOWERBY (G.B. II), Thes. Conch., vol. II, pt. 12, p. 640, pl. CXXXVI,  
figs. 200, 201.—1911. *Cytheraea tigrina* LAMARCK: YOKOYAMA, Climat. Change, p. 8, pl.  
I, fig. 6.—1924. *Meretrix tigrina* (LAMARCK): YOKOYAMA, Moll. Coral-Bed, pp. 42-43,  
pl. II, fig. 16.

Fossil occurrence.—Numa. Ecology.—P -0-35, J -37?

*Pitar (Pitarina) lineolata* (SOWERBY (G. B. II)) ガンギハマグリ .....Pl. 45, Fig. 6

1854. *C[cytheraea] lineolata* SOWERBY (G.B. II), Thes. Conch., vol. II, p. 786, pl. CLXVIII, figs.  
214, 215.—1924. *Meretrix (Callista) limatula* (SOWERBY): YOKOYAMA, Moll. Coral-Bed,  
p. 43, pl. II, fig. 21. [Non *Venus lineolata* SOWERBY (J.), 1813, nor *Venus lineolata*  
SOWERBY (J. de C.), 1823, one of which transferred to *Cytheraea* by SOWERBY (J. de C.),  
1836, Trans. Geol. Soc. London, [2] IV, p. 240 (fide SHERBORN, 1927)].

Fossil occurrence.—Numa. Ecology.—P 31-35, J -41. N<sub>1</sub>. mS, sM.

Genus *Callista* POLI, 1791

*Callista chinensis* (HOLTEN) マツヤマワスレ .....Pl. 45, Figs. 1, 2

1802. *Venus chinensis* HOLTEN, Enum. syst. Conch., p. 20.—1920. *Meretrix (Callista) chinensis*  
CHEMNITZ: YOKOYAMA, Foss. Miura [etc.], p. 120, pl. VIII, figs. 9, 10.

Fossil occurrence.—Naganuma. Ecology.—P 23-39, J -40. N<sub>1</sub>. S.



Genus *Ezocallista* KURODA in OYAMA, 1961

*Ezocallista brevisiphonata* (CARPENTER) エゾワスレ .....Pl. 45, Fig. 3

1865. *Saxidomus brevisiphonatus* CARPENTER, Proc. Zool. Soc. London, 1865, no. XIII, pp. 203-204.—1922. *Meretrix (Callista) chinensis* CHEMNITZ: YOKOYAMA, Foss. Kazusa Shimosa, p. 146, pl. XI, fig. 5.

Fossil occurrence.—Shitô. Ecology.—P 36<sup>+</sup>-45, J 38-46. N<sub>1-2</sub>. S. Kashima-Nada (P 36) is the southern limit of this species.

Genus *Saxidomus* CONRAD, 1837

*Saxidomus purpurata* (SOWERBY (G. B. II))

ウチムラサキ .....Pl. 45, Fig. 8; Pl. 46, Figs. 4, 5

1852. *Tapes purpurata* [-us] SOWERBY, Thes. Conch., Vol. II, pt. 13, p. 692, pl. CL, figs. 124, 125.—1920. *Saxidomus purpuratus* [-a] SOWERBY: YOKOYAMA, Foss. Miura [etc.], p. 127, pl. IX, figs. 8, 9.—1922. *Saxidomus purpuratus* [-a] (SOWERBY): YOKOYAMA, Foss. Kazusa Shimosa, p. 153, pl. XII, fig. 9.

Fossil occurrence.—Yokosuka and Ôtake. Ecology.—P 32-42, J 33-43. N<sub>1</sub>. R.

Remark.—The gender of this genus has long been incorrectly believed masculine, but feminine gender is correct because of the shown example of the International Code of Zoological Nomenclature.

Genus *Meretrix* LAMARCK, 1799

*Meretrix lusoria* (RÖDING) ハマグリ .....Pl. 45, Fig. 4

1791. *Venus Lusoria* [RÖDING], Mus. Bolten., pars 2, p. 180.—1922. *Meretrix meretrix* LINNÉ: YOKOYAMA, Foss. Kazusa Shimosa, p. 146, pl. XI, fig. 4.

Fossil occurrence.—Ôtake. Ecology.—P 31-39, J -43<sup>+</sup>. N<sub>0-1</sub>. S, mS. The northern records of Japan Sea side are Rumoe by my material and Oshoro by M. SASAKI's.

## Subfamilia Sunettinae

Genus *Sunetta* LINK, 1807Subgenus *Cyclosunetta* FISCHER (E.), 1839

*Sunetta (Cyclosunetta) menstrualis* MENKE ワスレガイ .....Pl. 44, Figs. 1-3

1843. *Cytherea menstrualis* MENKE, Moll. Nouv. Holl. specim., p. 43 (fide FISCHER-PIETTE & FISCHER, 1939).—1846. *Cytherea menstrualis* MENKE: PHILIPPI, Abb. u. Besch. Conch., Bd. II, Heft IV, p. 96 [*Cytherea*, p. 24], pl. III [XII. 2], fig. 3.—1922. *Sunetta excavata* HANLEY: YOKOYAMA, Foss. Kazusa Shimosa, pp. 147-148, pl. XI, figs. 6a, b, 7, 8.—1939. *Sunetta (Cyclosunella) menstrualis* MENKE: FISCHER-PIETTE & FISCHER, Jour. Conchyliol., vol. XXXVII [ser. 4, Tom. XXXVII], no. 3, pp. 207-208.

Fossil occurrence.—Kioroshi and Ôtake. Ecology.—P 23? 30-35, J -34<sup>+</sup>. N<sub>1</sub>. S. Aomijima (J 34) is the northern limit along Japan Sea coast.

## Subfamilia Dosiniinae

Genus *Dosinia* SCOPOLI, 1777Subgenus *Phacosoma* JUKES-BROWNE, 1912

*Dosinia (Phacosoma) sericea* (REEVE) ヒメカガミ .....Pl. 44, Fig. 4

1850. *Artemis sericea* REEVE, Conch. Icon., vol. VI, *Artemis*, sp. 36, pl. VIII, fig. 36 [not pl. VI, fig. 36].—1920. *Dosinia troscheli* LISCHKE (pars): YOKOYAMA, Foss. Miura [etc.], p. 119, pl. VIII, fig. 5 [not fig. 6].  
Fossil occurrence.—Ôkine. Ecology.—P 10?, 34-36, J 33+-40+. N<sub>1-3</sub>. S. The range along Japan Sea coast is from Genkai-Nada (J 33) to Asamushi (J 40), though it was neglected in the Check List (KURODA & HABE, 1952).

*Dosinia (Phacosoma) japonica* (REEVE) カガミガイ .....Pl. 44, Fig. 7

1850. *Artemis Japonica* REEVE, Conch. Icon., vol. VI, *Artemis*, sp. 17, pl. III, fig. 17.—1920. *Dosinia troscheli* LISCHKE (pars): YOKOYAMA, Foss. Miura [etc.], pp. 119, pl. VIII, fig. 6 (not fig. 5).—1950. *Dosinia (Phacosoma)* n. sp.: TAKI & OYAMA, Plioc. & later Faunas, p. 43, pl. 9, fig. 6.  
Fossil occurrence.—Shimo-Miyata. Ecology.—P 31-42, J -43. N<sub>0-1</sub>. mS, sM.

#### Subgenus *Dosinorbis* DALL, 1902

*Dosinia (Dosinorbis) bilunulata* (GRAY) ヒナガイ .....Pl. 44, Figs. 10, 11

1838. *Arthemis bilunulata* GRAY, Analyst Quart. Jour., vol. VIII (1838), pl. 24, p. 309 (fide SHERBORN, 1924).—1850. *Artemis bilunulata* GRAY: REEVE, Conch. Icon., vol. VI, *Artemis*, sp. 22, pl. IV, fig. 22.—1922. *Dosinia bilunulata* GRAY: YOKOYAMA, Foss. Kazusa Shimosa, pp. 144-145, pl. X, figs. 12, 13.  
Fossil occurrence.—Ôtake. Ecology. P 31-35, J -36. N<sub>1-2</sub>. S.

#### Subfamilia Cyclininae

##### Genus *Cyclina* DESHAYES, 1850

*Cyclina orientalis* (SOWERBY (G. B. II)) オキシジミ .....Pl. 44, Figs. 5, 9

1852. *Artemis orientalis* SOWERBY (G. B. II), Thes. Conch., vol. II, pt. 13, p. 661, pl. CXLIV, fig. 79.—1920. *Cyclina chinensis* CHEMNITZ: YOKOYAMA, Foss. Miura [etc.], pp. 119-120, pl. VIII, figs. 7, 8.  
Fossil occurrence.—Ôtsu. Ecology.—31-41, J -41. N<sub>0(1-3)</sub>. mS, sM. The southern limit is Kagoshima (P 31) by my own material.  
Remark.—This species is to be separated from *Cyclina sinensis* (GMELIN) which ranges from Taiwan to Okinawa Islands.

#### Subfamilia Venerinae

##### Genus *Ventricolaria* KEEN, 1954

*Ventricolaria toreuma* (GOULD) マルスダレ (シコロガイ) .....Pl. 46, Fig. 3

1850. *Venus toreuma* GOULD, Proc. Boston Soc. Nat. Hist., vol. III, p. 277.—1862. *Venus toreuma* GOULD: GOULD, Otia conch., pp. 84-85, 246.—1924. *Venus toreuma* GOULD: YOKOYAMA, Moll. Coral-Bed, p. 44, pl. II, fig. 22.  
Fossil occurrence.—Numa. Ecology.—P -0-35+, J -37. N<sub>1-3</sub>. sR. The range should be extended to Sagami Bay (P 35).

#### Subfamilia Chioninae

##### Genus *Mercenaria* SCHUMACHER, 1817

*Mercenaria stimpsoni* (GOULD) ビノスガイ .....Pl. 46, Figs. 6, 7

1861. *Venus (Mercenaria) Stimpsoni* GOULD, Proc. Boston Soc. Nat. Hist., vol. VIII, p. 30.—  
 1862. *Venus (Mercenaria) Stimpsoni* GOULD: GOULD, Otia conch., p. 169.—1922. *Venus*  
*(Mercenaria) stimpsoni* GOULD: YOKOYAMA, Foss. Kazusa Shimosa, p. 148, pl. XI, figs.  
 11, 12.—1964. *Venus (Mercenaria) stimpsoni* GOULD: JOHNSON, U.S. Nat. Mus., Bull.  
 239, p. 153, pl. 25, fig. 6 (holotype).

Fossil occurrence.—Ôtake. Ecology.—P 36+?, 37-45, J 34-46. N<sub>1</sub>. S.

Genus *Clausinella* GRAY, 1851

Subgenus *Placamen* IREDALE, 1925

*Clausinella (Placamen) tiara* (DILLWYN) ハナガイ .....Pl. 47, Fig. 9

1816. *Venus tiara* DILLWYN, Descr. Catal. Shells, vol. 1, p. 162.—1920. *Chione isabellina*  
 PHILIPPI: YOKOYAMA, Foss. Miura [etc.], pp. 121-122, pl. VIII, fig. 13.

Fossil occurrence.—Naganuma. Ecology.—P -0-35, J -40. N<sub>1-2</sub>. S.

Genus *Anomalocardia* SCHUMACHER, 1817

Subgenus *Veremolpa* IREDALE, 1930

*Anomalocardia (Veremolpa) micra* (PILSBRY) ヒメカノコアサリ .....Pl. 47, Figs. 4, 5

1904. *Chione micra* PILSBRY, Proc. Acad. Nat. Sci. Philadelphia, 1904, [pt. of July], pp. 552-  
 553, pl. XLI, figs. 4, 5.—1927. *Chione crenifera* SOWERBY: YOKOYAMA, Moll. westn.  
 Shimosa [etc.], p. 456, pl. LIII, figs. 9, 10.

Fossil occurrence.—Ichikawa. Ecology.—P 33-35, J 32+ -40+. N<sub>1</sub>. mS, sM. The range along  
 Tsushima Current is from Amakusa Islands (J 32) to Asamushi (J 40).

*Anomalocardia (Veremolpa) minuta* (YOKOYAMA)

アデヤカヒメカノコアサリ .....Pl. 47, Figs. 1-3

1920. *Chione minuta* YOKOYAMA, Foss. Miura [etc.], pp. 122-123, pl. VIII, fig. 14.—1922.  
*Chione mindanensis* SMITH: YOKOYAMA, Foss. Kazusa Shimosa, pp. 150-151, pl. XI, figs.  
 2, 3.

Fossil occurrence.—Naganuma and Shitô, Ecology.—P 31-37, J 32-37. N<sub>1-4</sub>, B<sub>2-4</sub>. S, mS, sM.

Genus *Protothaca* DALL, 1902

Subgenus *Protothaca* s. str.

*Protothaca (Protothaca) jodoensis* (LISCHKE) オニアサリ .....Pl. 47, Figs. 6-8

1874. *Venus jodoensis* LISCHKE, Jahrb. Deutsch. Malacoz. Ges., Jahrg. 1874, pp. 57-58.—1874.  
*Venus jodoensis* LISCHKE: LISCHKE, Japan. Meer.-Conch., Bd. III, pp. 84-85, pl. VII, figs.  
 1-9.—1920. *Venus jodoensis* LISCHKE: YOKOYAMA, Foss. Miura [etc.], pp. 120-121, pl.  
 VIII, figs. 11, 12.—1924. *Venus jodoensis* LISCHKE: YOKOYAMA, Moll. Coral-Bed, pp.  
 43-44, pl. II, fig. 20.

Fossil occurrence.—Naganuma and Numa. Ecology.—P 31-39, J -42. N<sub>0-1</sub>. sR, gS, S.

Subgenus *Callithaca* DALL, 1902

*Protothaca (Callithaca) adamsi* (REEVE) エゾヌノメ .....Pl. 47, Figs. 10, 11

1863. *Venus Adamsii* REEVE, Conch. Icon., vol. XIV, *Venus*, sp. 77, pl. XVII, fig. 77.—1927.  
*Venus rigida* GOULD: YOKOYAMA, Moll. Tokyo [etc.], p. 430, pl. L, figs. 3, 4.  
 Fossil occurrence.—Ôji. Ecology.—P 38-45, J 35-46. N<sub>1-3</sub>. mS, sM. The occurrence of  
 "P 35" is doubtful.

## Subfamilia Tapetinae

Genus *Gomphina* MÖRCH. 1853Subgenus *Gomphina* s. str.*Gomphina* (*Gomphina*) *neastartoides* (YOKOYAMA)

キタノフキアゲアサリ ..... Pl. 48, Figs. 7, 9

1922. *Venus neastartoides* YOKOYAMA, Foss. Kazusa Shimosa, p. 149, pl. XI, figs. 9a, b, 10.  
 Fossil occurrence.—Kioroshi. Ecology.—P ?-39, J 32+-47. N<sub>1</sub>. S. This species comes from  
 Amakusa (J 32).

Subgenus *Macridiscus* DALL. 1902*Gomphina* (*Macridiscus*) *veneriformis* (LAMARCK) オキアサリ ..... Pl. 48, Fig. 10

1818. *Donax veneriformis* LAMARCK, Anim. s. Vert., Tom. V, p. 548.—1927. *Gomphina  
 melanaegis* ROEMER, YOKOYAMA, Moll. westn. Shimosa, p. 457, pl. LII, fig. 12.  
 Fossil occurrence.—Ichikawa. Ecology.—P 31-42, J -40. N<sub>1</sub>. S.

Genus *Tapes* MEGERLE VON MÜHLFELD, 1811Subgenus *Ruditapes* CHIAMENTI, 1900*Tapes* (*Ruditapes*) *variegatus kioroshiensis* (HIRAYAMA & ANDO) ... Pl. 48, Figs. 3, 4

- [1852. *Tapes variegata* [-us] HANLEY [MS.]: SOWERBY (G.B. II), Thes. Conch., vol. II, pt. 13,  
 p. 696, pl. CLI, figs. 133-138].—1920. *Tapes variegatus* HANLEY: YOKOYAMA, Foss.  
 Miura [etc.], p. 125, pl. IX, figs. 4, 5a, b.—1954. *Venerupis* (*Amygdala*) *variegata  
 kioroshiensis* HIRAYAMA & ANDO, Venus: Japan. Jour. Mal., vol. 18, no. 2, pp. 110-116,  
 pl. 4, figs. 1-8.  
 Fossil occurrence.—Kami-Miyata. Ecology.—[P -0-35, J -41+]. [N<sub>0</sub>]. [S, sR].

*Tapes* (*Ruditapes*) *japonicus* (DESHAYES) アサリ ..... Pl. 48, Fig. 1

1853. *Tapes japonica* [-us] DESHAYES, Catal. Conch. biv. Mus. Brit., Pars I, pp. 181-182.—  
 1853. *Tapes Japonica* [-us] DESH.: DESHAYES, Proc. Zool. Soc. London, pt. XXI (1853),  
 no. CCXLVIII, p. 10.—1920. *Tapes philippinarum* (A. ADAMS et [et] REEVE): YOKO-  
 YAMA, Foss. Miura [etc.], pp. 125-126, pl. IX, figs. 6a-b.  
 Fossil occurrence.—Ôtsu. Ecology.—P 25-45, J -46. N<sub>0-1</sub>. S, mS.

Genus *Paphia* [RÖDING], 1798Subgenus *Paphia* s. str.*Paphia* (*Paphia*) (*euglypta* subsp.?) *naganumana* OTUKA スダレガイ ... Pl. 48, Fig. 6

1920. *Tapes amabilis* PHILIPPI: YOKOYAMA, Foss. Miura [etc.], p. 126, pl. IX, figs. 7a, b.—  
 1937. *Paphia naganumana* OTUKA, Bull. Earthquake Res. Inst., Tokyo Imp. Univ., vol.  
 XV, pt. 4, p. 1008, new name for *Tapes amabilis* PHILIPPI sensu YOKOYAMA.

Fossil occurrence.—Naganuma. Ecology.—P 26<sup>+</sup>-39, J -40. N<sub>1-2</sub>. S, sM. The southern limit should be shifted to western Okinawa Islands.

Remark.—The Japanese form has been called *P. euglypta* PHILIPPI, though in the shape and sculpture it differs somewhat from PHILIPPI's illustration.

*Paphia (Paphia) vernicosa* (GOULD) アケガイ .....Pl. 48, Fig. 2

1861. *Tapes vernicosa* [-us] GOULD, Proc. Boston Soc. Nat. Hist., vol. VIII, p. 30.—1862.

*Tapes vernicosa* [-us] GOULD: GOULD, Otia conch., pp. 168-169.—1877. *Tapes Greeffei* DUNKER, Malakoz. Bl., Bd. XXIV (1877), pp. 73-74.—1882. *Tapes Greeffei* DKR.: DUNKER, Index Moll. Mar. Japon., p. 207, pl. VIII, figs. 15-17.—1922. *Tapes euglyptus* PHILIPPI: YOKOYAMA, Foss. Kazusa Shimosa, p. 152, pl. XII, fig. 8.

Fossil occurrence.—Kioroshi. Ecology.—P 26<sup>+</sup>-35, J -33<sup>+</sup>. N<sub>1-2</sub>. fS, sM. This species has been recorded from Yamaguchi Prefecture and my material indicates southern Okinawa Islands (P 26) as the southern limit.

Remark.—This species is characterized by an almost smooth area of its middle part of the shell.

#### Genus *Notirus* FINLAY, 1928

*Notirus mitis* (DESHAYES) マツカゼ .....Pl. 38, Fig. 20

1854. *Venerupis mitis* DESHAYES, Proc. Zool. Soc. London, pt. XXI (1853), no. CCXLVIII, p. 5.

—1920. *Venerupis irus* (LINNÉ): YOKOYAMA, Foss. Miura [etc.], pp. 123-124, pl. IX, figs. 1a-b.

Fossil occurrence.—Yokosuka. Ecology.—P 14-41, J -41. N<sub>0-1</sub>. R.

*Notirus ishibashianus* (KURODA & HABE) オキナマツカゼ .....Pl. 38, Figs. 22, 24, 25

1920. *Venerupis insignis* DESHAYES (pars): YOKOYAMA, Foss. Miura [etc.], pp. 124-125, pl. IX, fig. 3 (non fig. 2).—1924. *Venerupis irus* (LINNÉ): YOKOYAMA, Moll. Coral-Bed, pp. 44-45, pl. II, fig. 23.—1924. *Venerupis insignis* DESHAYES: YOKOYAMA, ld., p. 45, pl. III, fig. 4.—1952. *Irus ishibashianus* KURODA & HABE, Check List Mar. Shells Japan, p. 21, new name for *Venerupis irus* (LINNÉ) sensu YOKOYAMA, 1924 [non 1920].

Fossil occurrence.—Yokosuka and Numa. Ecology.—P 32<sup>+</sup>-39, J 32<sup>+</sup>-40 (?). N<sub>1</sub>. R, C. In rocks or corals associated with remains of boring shells. The southern limits are Kashiwajima (P 32) and Amakusa Islands (J 32).

#### Familia Petricolidae

##### Genus *Lajonkairia* DESHAYES, 1854

*Lajonkairia divaricata* (LISCHKE) チヂミガイ .....Pl. 39, Fig. 12

1872. *Lucinopsis divaricata* LISCHKE, Malakoz. Bl., Bd. XIX, pp. 108-109.—1874. *Lucinopsis divaricata* LISCHKE: LISCHKE, Japan. Meer.-Conch., Bd. III, p. 90, pl. VII, figs. 12, 12a, 13, 14.—1922. *Lucinopsis divaricata* LISCHKE: YOKOYAMA, Foss. Kazusa Shimosa, p. 145, pl. X, figs. 7, 7a.

Fossil occurrence.—Shitô. Ecology.—P 33-35, J 32<sup>+</sup>-33<sup>+</sup>. N<sub>1</sub>. mS, sM. Along Tsushima Current this species ranges from Amakusa Islands (J 32) to Yanai (J 33).

Genus *Petricola* LAMARCK, 1801Subgenus *Petricolirus* HABE, 1951

*Petricola* (*Petricolirus*) *aequistriata* SOWERBY (G. B. II) シオツガイ ..Pl. 48, Figs. 5, 8

1874. *Petricola aequistriata* SOWERBY (G.B. II), Conch. Icon., vol. *Petricola*, sp. 19, pl. III, fig. 19.—1922. *Venerupis semipurpurea* DUNKER: YOKOYAMA, Foss. Kazusa Shimosa, pp. 151-152, pl. XII, figs. 1, 2.

Fossil occurrence.—Ôtake. Ecology.—P 32-39, J 33+-41+. N<sub>1</sub>. R. From crevices of boring shells. This form ranges from Amakusa (J 32) to northern side of Tsugaru Strait (J 41) along Tsushima Current.

Subgenus *Pseudoirus* HABE, 1951

*Petricola* (*Pseudoirus*) *mirabilis* (DESHAYES) チヂミイワホリガイ .....Pl. 38, Fig. 23

1853. *Venerupis mirabilis* DESHAYES, Catal. Conch. Brit. Mus., pars I, p. 207.—1854. *Venerupis mirabilis* DESHAYES: SOWERBY (G.B. II), Thes. Conch., vol. II, pt. 15, p. 766, pl. 165, fig. 24.—1920. *Venerupis insignis* DESHAYES (pars): YOKOYAMA, Foss. Miura [etc.], pp. 124-125, pl. IX, figs. 2a-b (not fig. 3).

Fossil occurrence.—Ôtsu. Ecology.—P 32-35, J 32+-41+. N<sub>1</sub>. R. This species ranges from Amakusa (J 32) to Hiura and other localities (J 41) at Tsugaru Straits along Tsushima Current.

## Superfamilia Mactracea

## Familia Mesodesmatidae

Genus *Coecella* GRAY, 1853

*Coecella chinensis* DESHAYES クチバガイ .....Pl. 49, Figs. 1, 2

1855. *Caecella* [*Coe-*] *chinensis* DESHAYES, Proc. Zool. Soc. London, pt. XXII (1854), no. CCLXXX, p. 334.—1920. *Ervillea otsuensis* YOKOYAMA, Foss. Miura [etc.], p. 109, pl. VII, figs. 21a, b, 22.

Fossil occurrence.—Ôtsu. Ecology.—P 25-43, J -41. N<sub>0-1</sub>. S, mS, sM.

## Familia Mactridae

Genus *Maetra* LINNAEUS, 1767Subgenus *Maetra* s. str.

*Maetra* (*Maetra*) (*chinensis* subsp.?) *sulcataria* REEVE バカガイ .....Pl. 49, Fig. 3

[1846. *Maetra chinensis* PHILIPPI, Abb. u. Beschr. Conch., Bd. II, 3, p. 73].—1854. *Maetra sulcataria* DESHAYES [MS.]: REEVE, Conch. Icon., vol. VIII, *Maetra*, sp. 5, pl. II, fig. 5. —1854. *Maetra sulcataria* DESHAYES: DESHAYES, Proc. Zool. Soc. London, pt. XXI (1853), no. CCXLVIII, pl. 15.—1922. *Maetra sulcataria* DESHAYES: YOKOYAMA, Foss. Kazusa Shimosa, pp. 126-127, pl. VII, fig. 6.

Fossil occurrence.—Shitô. Ecology.—P 31-41. N<sub>0-1</sub>. S, mS.

Remark.—REEVE's Iconica was published, before DESHAYES introduced his new species. Therefore, for not a few taxa of this family the original author is REEVE instead of DESHAYES.

*Maetra (Maetra) veneriformis* REEVE シオフキ .....Pl. 49, Fig. 6

1854. *Maetra veneriformis* DESHAYES [MS.]: REEVE, Conch. Icon., vol. VIII, *Maetra*, sp. 2, pl. I, fig. 2.—1854. *Maetra veneriformis* DESHAYES: DESHAYES, Proc. Zool. Soc. London, pt. XXI (1853), no. CCXLVIII, p. 15.—1920. *Maetra veneriformis* DESHAYES: YOKOYAMA, Foss. Miura [etc.], pp. 109-110, pl. VII, figs. 10a-b.

Fossil occurrence.—Ôtsu. Ecology.—P 25-39, J -37. N<sub>0</sub>. mS.

Remark.—REEVE illustrated this species eight months before DESHAYES' work.

#### Genus *Oxyperas* MÖRCH, 1853

*Oxyperas bernardi* (PILSBRY) ホクログアイ .....Pl. 48, Figs. 11, 12

1904. *Spisula (Oxyperas) bernardi* PILSBRY, Proc. Acad. Nat. Sci. Philadelphia, 1904 [pt. of July], pp. 550-551, pl. XXXIX, figs. 4-6.—1922. *Spisula bernardi* PILSBRY: YOKOYAMA, Foss. Kazusa Shimosa, pp. 130-131, pl. VIII, figs. 3, 4.

Fossil occurrence.—Kioroshi. Ecology.—P 25-35, J -41. N<sub>1-2</sub>. S.

#### Genus *Spisula* GRAY, 1837

##### Subgenus *Pseudocardium* GABB, 1866

*Spisula (Pseudocardium) sachalinensis* (SCHRENCK) ウバガイ ....Pl. 49, Figs. 4, 5, 7, 8

[? 1858. *Maetra bonneauii* BERNARDI, Jour. Conchyliol., Tom. VII [Sér. 2, Tom. III], pp. 92-93, pl. II, fig. 2].—1861. *Maetra sachalinensis* SCHRENCK, Bull. Acad. Imp. Sci. St.-Petersburg, Tom. IV, p. 412 (fide SCHRENCK, 1867).—1867. *Maetra (Spisula) sachalinensis* SCHRENCK: SCHRENCK, Reise u. Forsch. Amur-Lande, Bd. II, pp. 575-578, pl. XXIII, figs. 3-7.—1922. *Maetra dunkeri* YOKOYAMA, Foss. Kazusa Shimosa, pp. 128-129, pl. VII, figs. 7, 8.—1922. *Maetra sachalinensis* SCHRENCK var. *imperialis* YOKOYAMA, Id., pp. 129-130, pl. VII, figs. 9, 10.

Fossil occurrence.—Shitô and Ôtake. Ecology.—P 35+-45+, J 40-46. N<sub>1</sub>. S, mS. Fresh material is available at Kujûkurihama (P 35) and this species was reported from Etorofu Island by SASAKI (P 45).

##### Subgenus *Mactromeris* CONRAD, 1868

*Spisula (Mactromeris) voyi* (GABB) ナガウバガイ .....Pl. 46, Figs. 1, 2

1866. *Callista voyi* GABB, Geol. Surv. Calif., Pal., vol. II, p. 24, pl. 5, fig. 41.—1922. *Spisula grayana* SCHRENCK: YOKOYAMA, Foss. Kazusa Shimosa, p. 130, pl. VIII, figs. 1, 2.

Fossil occurrence.—Shitô. Ecology.—P 35+-69, J 35+-46. N<sub>1</sub>. S. The areas near Chôshi (P 35) and off Fukui Prefecture (J 35) are the southern limits.

#### Genus *Raeta* GRAY, 1853

##### Subgenus *Raetina* DALL, 1894

*Raeta (Raetina) pellicula* (REEVE) ヤチヨノハナガイ .....Pl. 50, Figs. 1-3

1854. *Maetra pellicula* DESHAYES [MS.]: REEVE, Conch. Icon., vol. VIII, *Maetra*, sp. 124, pl. XXI, fig. 124.—1855. *Maetra pellicula* DESHAYES: DESHAYES, Proc. Zool. Soc. pt. XXII (1854), no. CCLXIV, pp. 68-69.—1922. *Raeta pellicula* DESHAYES: YOKOYAMA, Foss. Kazusa Shimosa, p. 131, pl. IX, fig. 6.—1922. *Raeta magnifica* YOKOYAMA, Id., p. 132, pl. VIII, figs. 12, 13.

Fossil occurrence.—Tega and Ôtake. Ecology.—P 34-39, J 33+. N<sub>1</sub>. [M]. This form was reported from Yanai (J 33), western part of Seto-Naikai.

Subgenus *Raetellops* HABE, 1952

*Raeta (Raetellops) yokohamensis* PILSBRY ヨコハマチヨノハナガイ ....Pl. 50, Figs. 4-6

1895. *Raeta yokohamensis* PILSBRY, Catal. Mar. Moll. Japan, p. 119, pl. III, figs. 4, 5.—1922. *Raeta yokohamensis* PILSBRY: YOKOYAMA, Foss. Kazusa Shimosa, p. 131, pl. VIII, figs. 5, 6.—1922. *Raeta elliptica* YOKOYAMA, Id., pp. 131-132, pl. VIII, fig. 7.

Fossil occurrence.—Ôtake and Tega. Ecology.—P 31-43, J 33+-40+. N<sub>1</sub>. M. An indicator of strong embayment degree.

Genus *Tresus* GRAY, 1853

*Tresus keenae* (KURODA & HABE) ミルクイ .....Pl. 51, Figs. 1, 5, 6

1922. *Maetra ovalina* LAMARCK: YOKOYAMA, Foss. Kazusa Shimosa, pp. 127-128, pl. VII, figs. 12, 13.—1922. *Tresus nuttalli* CONRAD: YOKOYAMA, Id., p. 133, pl. VIII, fig. 8.—1947. *Schizothaerus nuttalli* (CONRAD), Illustr. Encycl. Fauna Japan (rev. ed.), p. 1216, fig. 3455.—1950. *Schizothaerus keenae* KURODA & HABE, Illustr. Catal. Japan. Shells, [ser. 1], no. 4, p. 30, new name for *Schozothaerus* [sic] *nuttalli* CONRAD sensu YOKOYAMA, 1922, and HIRASE (S.) and KURODA, 1947.

Fossil occurrence.—Ôtake and Tega. Ecology.—P 31-41, J -42. N<sub>1-2</sub>. mS, sM.

Genus *Lutraria* LAMARCK, 1799

*Lutraria sieboldi* REEVE ヒラカモジガイ .....Pl. 51, Figs. 4, 7, 8

1854. *Lutraria Sieboldi* DESHAYES [MS.]: REEVE, Conch. Icon., vol. VIII, *Lutraria*, sp. 15, pl. IV, fig. 15.—1855. *Lutraria Sieboldii* DESHAYES: DESHAYES, Proc. Zool. Soc. London, pt. XXII (1854), no. CCLXIV, p. 71.—1920. *Lutraria radiata* YOKOYAMA, Foss. Miura [etc.], pp. 110-111, pl. VII, figs. 11a-b.—1927. *Lutraria sieboldii* DESHAYES: YOKOYAMA, Moll. Tokyo [etc.], p. 429, pl. XLIX, figs. 8, 9.

Fossil occurrence.—Naganuma and Shinagawa. Ecology.—P 31-35+, J 32-36. N<sub>1-1</sub>. sM, M. Sagami Bay (P 35) is the northern limit of the Pacific side.

Remark.—Though DESHAYES published this species in February, 1855, still earlier REEVE's monograph was published in August, 1854.

*Lutraria maxima* JONAS オオトリガイ .....Pl. 51, Figs. 2, 3

1844. *Lutraria maxima* JONAS, Zeitschr. f. Malakoz., Jahrg. 1844 (März), p. 34.—1922. *Lutraria maxima* JONAS: YOKOYAMA, Foss. Kazusa Shimosa, pp. 133-134, pl. VIII, figs. 9, 10.

Fossil occurrence.—Ôtake. Ecology.—P 23-35, J -40. N<sub>1</sub>. S.

Familia Cardiliidae

Genus *Cardilia* DESHAYES, 1835

*Cardilia semisulcata* (LAMARCK) キサガイ .....Pl. 49, Fig. 9

1819. *Isocardia semi-sulcata* LAMARCK, Anim. s. Vert., Tom. VI, Pt. 1, p. 32.—1927. *Cardilia semisulcata* LAMARCK: YOKOYAMA, Moll. Tokyo [etc.], p. 428, pl. XLVIII, fig. 16.

Fossil occurrence.—Kuruma-chô. Ecology.—P -0-35, J -37. N<sub>1</sub>. [S].



## Superfamilia Tellinacea

## Familia Donacidae

Genus *Donax* LINNAEUS, 1758Subgenus *Chion* SCOPOLI, 1777*Donax (Chion) semigranosus* DUNKER フジノハナガイ .....Pl. 52. Figs. 2, 3

1877. *Donax semigranosus* DUNKER, Malakoz. Bl., Bd. XXIV, pp. 68-69.—1882. *Donax semigranosus* DKR.: DUNKER, Index Moll. Mar. Japon., pp. 193-194, pl. VII, figs. 14-16.—  
1922. *Donax introradiatus* REEVE: YOKOYAMA, Foss. Kazusa Shimosa, p. 136, pl. IX, figs. 8, 9.

Fossil occurrence.—Tega. Ecology.—12(?) 30-35, J -40. N<sub>0</sub>. S.Subgenus *Tendidonax* IREDALE, 1930*Donax (Tendidonax) kiusiuensis* PILSBRY キユウシユウナミノコ.....Pl. 52. Fig. 1

1901. *Donax kiusiuensis* PILSBRY, Proc. Acad. Nat. Sci. Philadelphia, 1901, [pt. of March], pp. 207-208.—1901. *Donax kiusiuensis* PILSBRY, Id., [pt. of July], p. 400, pl. XX, fig. 19.  
—1927. *Donax paululus* YOKOYAMA, Moll. westn. Shimosa [etc.], pp. 455-456, pl. LII, fig. 6.

Fossil occurrence.—Matsudo. Ecology.—P 22+ -39, J -43. [N<sub>0</sub>]. [S]. The southern limit is Kaohsung (Takao) (P 22).

## Familia Garidae

Genus *Gari* SCHUMACHER, 1817Subgenus *Gobraeus* BROWN, 1844*Gari (Gobraeus) kazusensis* (YOKOYAMA) エゾマスオガイ .....Pl. 50. Fig. 11

1922. *Psammobia kazusensis* YOKOYAMA, Foss. Kazusa Shimosa, pp. 136-137, pl. IX, fig. 4.—  
1954. *Gari (Psammocola) californica* (CONRAD): TAKI & OYAMA, Plioc. & later Faunas, p. 46, pl. 29, fig. 4.

Fossil occurrence.—Shitô. Ecology.—P 35+ -55, J 40-42. The southern limit is Kashimanada (P 35).

Genus *Hiatula* MODEER, 1793Subgenus *Hiatula* s. str.*Hiatula (Hiatula) atrata* (REEVE) アケボノキヌタ .....Pl. 50. Figs. 8, 10

1857. *Soletellina atrata* (DESHAYES, MS.) REEVE, Conch. Icon., vol. X, *Soletellina*, sp. 14, pl. III, fig. 14.—1922. *Soletellina violacea* LAMARCK: YOKOYAMA, Foss. Kazusa Shimosa, pp. 137-138, pl. IX, figs. 13, 14.

Fossil occurrence.—Ôtake. Ecology.—P 13-35, J -33+. N<sub>1-2</sub>. S. This comes from Hibiki-Nada (J 33) and Suô-Nada (J 33).Subgenus *Nuttallia* DALL, 1898*Hiatula (Nuttallia) ezonis* (KURODA & HABE) エゾイソシジミ.....Pl. 50. Figs. 7, 9

1922. *Soletellina olivacea* JAY: YOKOYAMA, Foss. Kazusa Shimosa, p. 138, pl. VII, fig. 11; pl. IX, fig. 17.—1955. *Nuttallia ezonis* KURODA & HABE in HABE, Publ. Akkeshi Mar. Biol. Stat., no. 4, pp. 17-18, pl. I, figs. 12, 13.  
Fossil occurrence.—Shitô. Ecology.—P 39-51, J 40-51. [N<sub>1</sub>].

Genus *Solecortus* BLAINVILLE, 1824

*Solecortus divaricatus* (LISCHKE) キヌタアゲマキ .....Pl. 54, Fig. 7

1869. *Macha divaricata* LISCHKE, Malakoz. Bl., Bd. XVI, IV, pp. 108-109.—1869. *Macha divaricata* LISCHKE: LISCHKE, Japan. Meer.-Conch., [Bd. I], pp. 142-143, pl. X, figs. 1, 2.  
—1920. *Solecortus divaricatus* LISCHKE: YOKOYAMA, Foss. Miura [etc.], p. 112, pl. VII, fig. 14.  
Fossil occurrence.—Ôtsu. Ecology.—P 23-39, J -41.

Genus *Azorinus* RÉCLUZ, 1869

*Azorinus abbreviatus* (GOULD) ズングリアゲマキ .....Pl. 54, Figs. 4, 5

1861. *Solecortus abbreviatus* GOULD, Proc. Boston Soc. Nat. Hist., vol. VIII, p. 26.—1862. *Solecortus abbreviatus* GOULD: GOULD, Otia conch., p. 164.—1920. *Solecortus abbreviatus* GOULD: YOKOYAMA, Foss. Miura [etc.], pp. 111-112, pl. VII, figs. 12, 13.  
Fossil occurrence.—Naganuma. Ecology.—P -0-35, J-37. N<sub>1-2</sub>. mS, sM.

## Familia Semelidae

Genus *Semele* SCHUMACHER, 1817

*Semele carnicolor* (HANLEY) サメザラモドキ .....Pl. 52, Fig. 6

1845. *Amphidesma carnicolor* HANLEY, Proc. Zool. Soc. London, pt. XII (1844), no. CXL, p. 162.—*Semele aspasia* ANGAS: YOKOYAMA, Moll. Coral-Bed, p. 40, pl. II, fig. 17.  
Fossil occurrence.—Numa. Ecology.—P 10-34. N<sub>1</sub>. C, gS.

Genus *Theora* ADAMS (H.) & ADAMS (A.), 1856

*Theora lubrica* GOULD シズクガイ .....Pl. 52, Figs. 4, 5

1861. *Theora lubrica* GOULD, Proc. Boston Nat. Hist., vol. VIII, p. 24.—1862. *Theora lubrica* GOULD, Otia conch., p. 162.—1927. *Theora lubrica* GOULD: YOKOYAMA, Moll. Tokyo [etc.], p. 429, pl. XLVIII, figs. 11, 12.  
Fossil occurrence.—Kuruma-chô. Ecology.—P 31-42, J -41. N<sub>1</sub>. M. Ishiyama collected this species from Hakodate Bay (J 41) which is the northern limit along Tsushima Current.

?Genus *Semelangulus* IREDALE, 1924

*Semelangulus miyatensis* (YOKOYAMA) ニクイロザクラ .....Pl. 53, Fig. 1

1920. *Tellina miyatensis* YOKOYAMA, Foss. Miura [etc.], pp. 115-116, pl. VII, figs. 18a, b.  
Fossil occurrence.—Kami-Miyata. Ecology.—P 26+ -35+, J -41+. N<sub>1</sub>. S.

## Familia Tellinidae

Genus *Cadella* DALL, BARTSCH & REHDER, 1838

*Cadella delta* (YOKOYAMA) クサビザラ .....Pl. 37. Figs. 16

1922. *Tellina delta* YOKOYAMA, Foss. Kazusa Shimosa, pp. 141-142, pl. X, figs. 8-10.  
Fossil occurrence.—Ôtake. Ecology.—P 35-43, J 32<sup>+</sup>-36. N<sub>1</sub>. mS, sM. Amakusa Islands (J 32) is the southern limit of this species.

Genus *Arcopagia* BROWN, 1827Subgenus *Punipagia* IREDALE, 1930

*Arcopagia (Punipagia) radiatolineata* (YOKOYAMA)

ゴシキヒメザラ .....Pl. 37. Figs. 17, 18

1924. *Tellina radiato-lineata* YOKOYAMA, Moll. Coral-Bed, p. 41, pl. II, figs. 18, 19.  
Fossil occurrence.—Numa. Ecology.—P -0-35. N<sub>1</sub>. [sR]

Genus *Merisca* DALL, 1900

*Merisca tokunagai* (IKEBE) トクナガイチヨウシラトリ .....Pl. 53. Fig. 11

1920. *Tellina serricostata* TOKUNAGA (pars): YOKOYAMA, Foss. Miura [etc.], p. 115, pl. VII, fig. 24.—1936. *Arcopagia (Merisca) tokunagai* IKEBE, Venus, vol. VI, no. 4, pp. 203-205, text-figs. 3a, 3b.  
Fossil occurrence.—Kami-Miyata. Ecology.—P 32-35, J -36. N<sub>2-4</sub>. sM.

*Merisca subtruncata* (HANLEY) ユウヒザクラ .....Pl. 53. Figs. 7, 8

1844. *Tellina subtruncata* HANLEY, Proc. Zool. Soc. London, Pt. XII (1844), no. CXXXIX, p. 149.—1867. *Tellina subtruncata* HANLEY: SOWERBY (G. B. II) in REEVE, Conch. Icon., vol. XVII, *Tellina*, sp. 241, pl. XLI, fig. 241.—1906. *Tellina ojiensis* TOKUNAGA, Foss. Env. Tokyo, p. 44, pl. II, figs. 34a, a', b.—1920. *Tellina ojiensis* TOKUNAGA: YOKOYAMA, Foss. Miura [etc.], pp. 113-114, pl. VII, figs. 16a, 16b, 17a, 17b.  
Fossil occurrence.—Naganuma. Ecology.—P 10-35, J -41. N<sub>1</sub>. S.

Genus *Macoma* LEACH, 1819

*Macoma praetexta* (v. MARTENS) オオモモノハナ .....Pl. 52, Figs. 15, 16

1865. *Tellina praetexta* v. MARTENS, Ann. Mag. Nat. Hist., ser. 3, vol. XVI, no. 96, p. 430.  
—1871. *Tellina praetexta* v. MARTENS: RÖMER in MARTINI *et al.*, Syst. Conch.-Cab., N. F., Bd. X, Abt. 4, pp. 239-240, pl. 45, figs. 8-10.—1922. *Macoma praetexta* (MARTENS): YOKOYAMA, Foss. Kazusa Shimosa, p. 142, pl. X, figs. 2, 3.  
Fossil occurrence.—Shisui. Ecology.—P 23-38<sup>+</sup>, J -43. N<sub>1</sub>. S. Miyagi Prefecture (P 38) is the northern limit along the Pacific side.

*Macoma tokyoensis* MAKIYAMA ゴイサギガイ .....Pl. 52, Fig. 8

1865. *Tellina dissimilis* v. MARTENS, Ann. Mag. Nat. Hist., ser. 3, vol. XVI, no. 96, p. 430, non *Tellina dissimilis* DESHAYES.—1871. *Tellina dissimilis* v. MARTENS: RÖMER in MARTINI *et al.*, Syst.-Conch. Cab., N. F., Bd. X, Abt. 4, pp. 232-233, pl. 44, figs. 12-14.

—1922. *Macoma dissimilis* MARTENS: YOKOYAMA, Foss. Kazusa Shimosa, p. 143, pl. X, fig. 4.—1927. *Macoma tokyoensis* MAKIYAMA, Mem. Coll. Sci. Kyoto Imp. Univ., ser. B, vol. III, no. 1, p. 50, foot-note, new name for *Macoma dissimilis* (MARTENS), non *Tellina dissimilis* DESHAYES.

Fossil occurrence.—Ôtake. Ecology.—P 32+–39, J 32+–41. N<sub>1-2</sub>. mS, sM. The southern limits of this species are Sukumo Bay (P 32) and Amakusa (J 32).

Remarks.—The specific name "*Macoma tokyoensis*" can be applied for this taxon, because Makiyama stated that new name was proposed for the preoccupied one, though he assigned *Macoma dissimilis* (MARTENS) sensu YOKOYAMA, 1920, to the next species.

*Macoma incongrua* (V. MARTENS) ヒメシラトリ .....Pl. 52, Figs. 9, 11–13

1865. *Tellina incongrua* V. MARTENS, Ann. Mag. nat. Hist., ser. 3, vol. XVI, no. 96, pp. 430–431.—1800. *Tellina incongrua* V. MARTENS: RÖMER in MARTINI *et al.*, Syst. Conch.-Cab., N. F., Bd. X, Abt. 4, pp. 225–226, pl. 43, figs. 11–13.—1920. *Macoma dissimilis* MARTENS: YOKOYAMA, Foss. Miura [etc.], pp. 116–117, pl. VII, figs. 19a, b, 20—1920. *Macoma inquinata* DESHAYES: YOKOYAMA, Id., p. 117, pl. VIII, figs. 1, 2.—1927. *Macoma tokyoensis* MAKIYAMA (pars), Mem. Coll. Sci. Kyoto Imp. Univ., ser. B, vol. III, no. 1, p. 50, foot-note.

Fossil occurrence.—Ôtsu and Ôkine. Ecology.—P 31–44, J -46. N<sub>0-1</sub>. M.

*Macoma nipponica* (TOKUNAGA) ニツポンシラトリ .....Pl. 52, Figs. 7, 10

1906. *Tellina nipponica* TOKUNAGA, Foss. Env. Tokyo, pp. 44–45, pl. II, figs. 36a. a'.—1920. *Macoma nipponica* TOKUNAGA: YOKOYAMA, Foss. Miura [etc.], pp. 117–118, pl. VIII, figs. 3, 4.

Fossil occurrence.—Ôkine. Ecology.—P 33–42, J 32–42.

#### Genus *Rexithaerus* TRYON, 1869

*Rexithaerus sector* (OYAMA) サギガイ .....Pl. 52, Fig. 14

1922. *Macoma secta* CONRAD: YOKOYAMA, Foss. Kazusa Shimosa, pp. 143–144, pl. XI, fig. 1.—1950. *Macoma (Rexithaerus) sector* OYAMA, Mineral. & Geol., vol. 3, no. 6, p. 3.

Fossil occurrence.—Ôtake. Ecology.—P 23–41, J -46. N<sub>1</sub>. S.

#### Genus *Fabulina* GRAY, 1851

##### Subgenus *Fabulina* s. str.

*Fabulina (Fabulina) nitidula* (DUNKER) サクラガイ .....Pl. 53, Figs. 5, 10

1860. *Tellina nitidula* DUNKER, Malacoz. Bl., Bd. VI (1859), p. 236.—1861. *Tellina nitidula* DKR.: DUNKER, Moll. Japon., p. 27, pl. III, fig. 14.—1920. *Tellina nitidula* DUNKER: YOKOYAMA, Foss. Miura [etc.], pp. 112–113, pl. VII, figs. 15a–b.—1922. *Tellina nitidula* DUNKER: YOKOYAMA, Foss. Kazusa Shimosa, pp. 139–140, pl. VIII, fig. 11.

Fossil occurrence.—Ôtsu and Shisui. Ecology.—P -0–37+, J -41. N<sub>1</sub>. S. The northern limit of this species is Fukushima Prefecture (P 37).

*Fabulina (Fabulina) minuta* (LISCHKE) ウズザクラ .....Pl. 53, Fig. 6

1872. *Tellina minuta* LISCHKE, Malacoz, Bl., Bd. XIX, pp. 106–107.—1874. *Tellina minuta* LISCHKE: LISCHKE, Japan. Meer.-Conch., Bd. III, pp. 94–95, pl. IX, figs 4–6.—1924. *Tellina iridella* MARTENS: YOKOYAMA, Foss. Coral-Bed, p. 41, pl. V, fig. 23.

Fossil occurrence.—Numa. Ecology.—P 32+–39+, J 32+–40. N<sub>1</sub>. mS, sM. The ranges are from Kashiwajima (P 32) to Ôfunato Bay (P 39) and from Amakusa (J 32) to Asamushi (J 4).

Subgenus *Moerella* FISCHER (P.), 1887

*Fabulina* (*Moerella*) *peitaihoensis* (GRABAU & KING) ユウシオガイ ..Pl. 53, Figs. 3, 9

[?1860. *Tellina rutila* DUNKER, Malakoz. Bl., Bd. VI, p. 236].—[?1861. *Tellina rutila* DKR.: DUNKER, Moll. Japon., p. 27, pl. III, fig. 6].—1927. *Tellina pallidula* LISCHKE: YOKOYAMA, Moll. westn. Shimôsa [etc.], p. 456, pl. LII, figs. 7, 8.—1928. *Tellina* (*Tellinides*) *planissima* ANTON var. *peitaihoensis* GRABAU and KING, Shells Peitaiho, pp. 180–181, pl. V, fig. 37.

Fossil occurrence.—Koyasu. Ecology.—P 33–35, J 32+–41. N<sub>0</sub>. mS, M.

Remark.—This species was called *Tellina juvenilis* HANLEY, but both species are not identical.

Genus *Angulus* MEGRELE VON MÜHLFELD, 1811

*Angulus vestalioides* (YOKOYAMA) クモリザクラ .....Pl. 53, Fig. 12

1920. *Tellina vestalioides* YOKOYAMA, Foss. Miura [etc.], p. 114, pl. VII, fig. 25.

Fossil occurrence.—Naganuma. Ecology.—P 14(?)–42, J -42. N<sub>2-3</sub>. mS, sM.

Genus *Peronidia* DALL, 1900

*Peronidia venulosa* (SCHRENCK) サラガイ .....Pl. 53, Figs. 2, 13–16. ?4

1861. *Tellina venulosa* SCHRENCK, Bull. Acad. Imp. Sci. St.-Petersburg, Tom. IV, p. 412 (fide SCHRENCK, 1867).—1867. *Tellina venulosa* SCHRENCK: SCHRENCK, Reise. u. Forsch. Amur-Lande, Bd. II, pp. 556–559.—1922. *Tellina venulosa* SCHRENCK: YOKOYAMA, Foss. Kazusa Shimosa, p. 139, pl. X, fig. 1.—1922. *Tellina alternata* SAY var. *chibana* YOKOYAMA, Id., p. 140, pl. X, figs. 5, 6.—1922. *Tellina jedoensis* LISCHKE: YOKOYAMA, Id., pp. 138–139, pl. IX, figs. 16, [?15].

Fossil occurrence.—Ôtake. Ecology.—P 39–45, J 35–46. N<sub>1</sub>. S. The specimens from Choshi Fish Market (P 36) seem to be Pleistocene fossils, and accordingly this record is not included in the above range.

Superfamilia Solenacea

Familia Solenidae

Genus *Siliqua* MEGERLE VON MÜHLFELD, 1811

*Siliqua pulchella* (DUNKER) ミゾガイ .....Pl. 54, Fig. 6

1852. *Aulus pulchellus* DUNKER, Zeitschr. f. Malacoz., 1852, Nr. 4, pp. 58–59.—1858. *Aulus pulchellus* DKR.: DUNKER, Novit. Conch., Abt. II, Lfg. 2, pp. 20–21, pl. VI, figs. 4, 5.—1922. *Siliqua pulchella* DUNKER, Foss. Kazusa Shimosa, p. 135, pl. IX, fig. 7.

Fossil occurrence.—Ôtake. Ecology.—P 31–39, J -41+. N<sub>1</sub>. S. The northern limit along Tsushima Current is near Hakodate (J 41).

Genus *Solen* LINNAEUS, 1758

*Solen gordonis* YOKOYAMA アカマテガイ .....Pl. 54, Fig. 2

1920. *Solen gordonis* YOKOYAMA, Foss. Miura [etc.], p. 111, pl. VII, figs. 23a, b.

Fossil occurrence.—Shimo-Miyata. Ecology.—P 31-39, J -41+. N<sub>1-2</sub>. S. Hakodate (J 41) is the northern limit of this species.

*Solen strictus* GOULD マテガイ .....Pl. 54, Fig. 1

1861. *Solen strictus* GOULD, Proc. Boston Soc. nat. Hit., vol. VIII, p. 26.—1861. *Solen gracilis* GOULD, p. 26, non *S. gracilis* SOWERBY (J. de C.), 1844, nec PHILIPPI, 1847.—1862. *Solen strictus* GOULD: GOULD, Otia conch., p. 165.—1862. *Solen gracilis* GOULD: GOULD, p. 165.—1867. *Solen Gouldii* CONRAD, Amer. Jour. Conch., vol. III, pt. 3, App. p. 28, new name for *S. gracilis* GOULD, 1861, non SOWERBY (J. de C.), 1844, nec PHILIPPI, 1847.—1927. *Solen gouldi* CONRAD, Moll. westn. Shimosa [etc.], p. 455, pl. Ll, fig. 17. Fossil occurrence.—Ichikawa. Ecology.—P 31-42, J -42. N<sub>0-1</sub>. mS.

*Solen grandis* DUNKER オオマテ .....Pl. 54, Fig. 3

1861. *Solen grandis* DUNKER, Proc. Zool. Soc. London, 1861, no. XXVII, p. 418.—1865. *Solen grandis* DKR.: DUNKER, Novit. conch., Abt. II, Lfg. 8, pp. 71-72, pl. XXIV, fig. 5.—1922. *Solen grandis* DUNKER: YOKOYAMA, Foss. Kazusa Shimosa, p. 134, pl. IX, fig. 1. Fossil occurrence.—Ôtake. Ecology.—P 13-35, J -40, K -39. N<sub>1-2</sub>. S.

*Solen krusensterni* SCHRENCK エゾマテガイ .....Pl. 54, Fig. 8

1867. *Solen krusensternii* SCHRENCK, Reis. u. Forsch. Amur-Lande, Bd. II, pp. 594-595, pl. XXV, figs. 9-12.—1922. *Solen krusensterni* SCHRENCK: YOKOYAMA, Foss. Kazusa Shimosa, pp. 134-135, pl. IX, fig. 5. Fossil occurrence.—Ôtake. Ecology.—P 34-45, J 33-46. N<sub>1</sub>. mS, sM.

### Superfamilia Hiatellacea

#### Familia Hiatellidae

#### Genus *Hiatella* DAUDIN, 1802

*Hiatella orientalis* (YOKOYAMA) キヌマトイガイ .....Pl. 38, Figs. 10-15

1920. *Saxicava orientalis* YOKOYAMA, Foss. Miura [etc.], p. 106, pl. VII, figs. 2a, b, 3.—1922. *Trapezium nipponicum* YOKOYAMA (pars), Foss. Kazusa Shimosa, p. viii [correction, next to index], (not p. 167), pl. VI, figs. 12, 13.—1924. *Petricola awana* YOKOYAMA, Moll. Coral-Bed, p. 42, pl. II, fig. 12; pl. III, fig. 1. Fossil occurrence.—Ôtsu, Shitô and Numa. Ecology.—P 25-41, J -41. N<sub>0-1</sub>. R, shR, alR.

#### Genus *Panopea* MÉNARD, 1807

*Panopea japonica* ADAMS ナミガイ .....Pl. 55, Figs. 11, 14

1850. *Panopaea Japonica* A. ADAMS, Proc. Zool. Soc. Pt. XVIII (1849), no. CC, p. 170, pl. VI (Moll.), fig. 5.—1922. *Panope generosa* (GOULD): YOKOYAMA, Foss. Kazusa Shimosa, p. 121, pl. VI, figs. 14, 15. Fossil occurrence.—Tega and Ôtake. Ecology.—P 34-43, J 33+-46. N<sub>1</sub>. mS, sM.

### Superfamilia Myacea

#### Familia Corbulidae

#### Genus *Varicorbula* GRANT & GALE, 1931

*Varicorbula bifrons* (ADAMS (A.)) コダキガイ .....Pl. 55, Fig. 7

1860. *Corbula bifrons* ADAMS (A.), Ann. Mag. nat. Hist., ser. 3, vol. 5, no. 29, p. 412.—1922. *Corbula substriata* YOKOYAMA, Foss. Kazusa Shimosa, pp. 125-126, pl. VII, fig. 3.—1961. *Varicorbula bifrons* (A. ADAMS) : HABE, Prof. MAKIYAMA mem. Vol., p. 193, pl. 1, fig. 5; pl. 4, fig. 17.  
Fossil occurrence.—Shitô. Ecology.—P 27-36, J -37. N<sub>2-4</sub>B<sub>2-4</sub>. shgS, mS.

*Varicorbula yokoyamai* HABE マメクチベニ .....Pl. 55, Figs. 3, 4

1922. *Corbula pygmaea* YOKOYAMA, Foss. Kazusa Shimosa, p. 125, pl. VII, figs. 4, 5, non *C. pygmaea* HANLEY, 1856.—1949. *Varicorbula yokoyamai* HABE, Illustr. Catal. Japan. Shells, [ser. 1], no. 1, p. 2, pl. 1, fig. 5, new name for *Corbula pygmaea* YOKOYAMA, (non HANLEY).  
Fossil occurrence.—Tega. Ecology.—P 25+42, J -37. The southern limit is shifted to western Okinawa Islands (P 25) by new information.

Genus *Caryocorbula* GARDNER, 1926

Subgenus *Solidicorbula* HABE, 1849

*Caryocorbula (Solidicorbula) erythron* (LAMARCK) クチベニ .....Pl. 55, Figs. 1, 2

1818. *Corbula erythron* LAMARCK, Hist. nat. Anim. s. Vert., Tom. V, p. 496.—1922. *Corbula erythron* LAMARCK : YOKOYAMA, Foss. Kazusa Shimosa, p. 122, pl. VI, figs. 8, 9.  
Fossil occurrence.—Ôtake. Ecology.—P 10-35, I -40. N<sub>1</sub>. S.

Subgenus *Anisocorbula* IREDALE, 1930

*Caryocorbula (Anisocorbula) venusta* (GOULD) クチベニ .....Pl. 55, Fig. 5

1861. *Corbula venusta* GOULD, Proc. Boston Soc. nat. Hist., vol. VIII, p. 25.—1862. *Corbula venusta* GOULD : GOULD, Otia conch., p. 164.—1920. *Corbula venusta* GOULD : YOKOYAMA, Foss. Miura [etc.], pp. 107-108, pl. VII, figs. 4a-b, 5a, 5b, 6.  
Fossil occurrence.—Yokosuka. Ecology.—P 31-42, J -43. N<sub>0-4</sub>B<sub>2</sub> S, mS.

Genus *Potamocorbula* HABE, 1955

*Potamocorbula amurensis* (SCHRENCK) デヌマコダキガイ .....Pl. 55, Figs. 6, 8, 10, 13

1861. *Corbula amurensis* SCHRENCK, Bull. Acad. Imp. Sci. St.-Petersburg, Tom. IV, p. 412 (fide SCHRENCK, 1867).—1867. *Corbula amurensis* SCHRENCK : SCHRENCK, Reise u. Forsch. Amur-Lande, Bd. II, pp. 584-586, pl. XXV, figs. 5-8.—1922. *Corbula frequens* YOKOYAMA, Foss. Kazusa Shimosa, p. 123, pl. VI, figs. 26, 17.—1922. *Corbula pustulosa* YOKOYAMA, Id., pp. 123-124, pl. VI, fig. 18.—1922. *Corbula sematensis* YOKOYAMA (pars), Id., pp. 124-125, pl. VI, fig. 19, (not fig. 20).  
Fossil occurrence.—Shitô and Ôtake. Ecology.—P 43. K 26-43, KJ ?-43. mS, sM, M.

Familia Myacidae

Genus *Cryptomya* CONRAD, 1848

Subgenus *Cryptomya* s. str.

*Cryptomya (Cryptomya) busoensis* YOKOYAMA ヒメマスオガイ .....Pl. 55, Figs. 12, 15

1922. *Cryptomya busoensis* YOKOYAMA, Foss. Kazusa Shimosa, p. 126, pl. VII, figs. 1, 2, 2a.

Fossil occurrence.—Ôtake. Ecology.—P 34-43, J 33+42. N<sub>1</sub>. Hakata Bay (J 33) is the southern limit along Tsushima Current.

Subgenus *Venatomya* IREDALE, 1930

*Cryptomya (Venatomya) truncata* GOULD クシゲマスオガイ .....Pl. 55, Fig. 9

1861. *Cryptomya truncata* GOULD, Proc. Boston Soc. nat. Hist., vol. VIII, pp. 24-25.—1862. *Cryptomya truncata* GOULD: GOULD, Otia conch., p. 163.—1927. *Cryptomya tachibanensis* YOKOYAMA, Moll. westn. Shimosa [etc.], pp. 454-455, pl. LII, fig. 5.

Fossil occurrence.—Ichikawa. Ecology.—P 12-35, J -36. N<sub>1</sub>.

Superfamilia Gastrochaenacea

Familia Gastrochaenidae

Genus *Eufistulana* EAMES, 1951

*Eufistulana grandis* (DESHAYES) コツツガイ .....Pl. 20, Figs. 17-19

1855. *Chaena grandis* DESHAYES, Proc. Zool. Soc. London, Pt. XXII (1854), no. CCLXXX, p. 330.—1866. *Fistulana grandis* DESHAYES: FISCHER (P.), Jour. Conchyliol., Vol. XIV, p. 321-335, pls. XII, XIII.—1927. *Vermetus ebaranus* YOKOYAMA, Moll. Tokyo [etc.], p. 414, pl. XLVI, figs. 15-17.

Fossil occurrence.—Shinagawa. Ecology.—P 10-34. S.

Superfamilia Pholadacea

Familia Pholadidae

Genus *Barnea* RISSO, 1826

Subgenus *Anchomasa* LEACH in GRAY, 1852

*Barnea (Anchomasa) manilensis inornata* (PILSBRY) ニオガイ .....Pl. 56, Fig. 1

1895. *Pholas (Barnea) manilensis* PHIL. var. *inornata* PILSBRY, Catal. Mar. Moll. Japan, p. 116.—1920. *Pholas fragilis* SOWERBY: YOKOYAMA, Foss. Miura [etc.], pp. 104-105, pl. VI, figs. 29a, b.

Fossil occurrence.—Ôtsu. Ecology.—P 31-43, J -41. N<sub>0-1</sub>. R.

Genus *Umitakea* HABE, 1952

*Umitakea japonica* (YOKOYAMA) ウミタケ .....Pl. 56, Figs. 4, 9

1920. *Pholadomya japonica* YOKOYAMA, Foss. Miura [etc.], pp. 106-107, pl. VI, figs. 30a, b, 31a-c.

Fossil occurrence.—Naganuma. Ecology.—P 33-34, J 32+46?. N<sub>0-1</sub>. M.

Genus *Zirfaea* GRAY, 1847

*Zirfaea subconstricta* (YOKOYAMA) ニオガイモドキ .....Pl. 56, Figs. 2, 3

1924. *Pholas subconstricta* YOKOYAMA, Moll. Coral-Bed, p. 38, pl. II, fig. 13.—1924. *Jouannetia yabei* YOKOYAMA, Id., p. 39, pl. II, fig. 11.

Fossil occurrence.—Numa. Ecology.—P 25-43+, J -39. N<sub>0-1</sub>. R. This species ranges to Akkeshi (P 43) according to HABE.



Genus *Pholadidea* TURTON, 1819Subgenus *Penitella* VALENCIENNES, 1847

*Pholadidea (Penitella) kamakurensis* (YOKOYAMA) カモメガイ .....Pl. 56. Fig. 6

1922. *Jouannetia kamakurensis* YOKOYAMA, Foss. Kazusa Shimosa, p. 120, pl. VI, fig. 10.

Fossil occurrence.—Shitô. Ecology.—P 32+–41?, J 32+–41?. The record from Bungo Channel (P 32) and Amakusa (J 32) extends the southern limits of both sides of Japan.

Genus *Martesia* BLAINVILLE, 1825

*Martesia striata cupula* (YOKOYAMA) カモメガイモドキ .....Pl. 56. Figs. 7, 8, 11, 12

1924. *Pholas cupula* YOKOYAMA, Moll. Coral-Bed., pp. 37–38, pl. II, fi. 15.—1927. *Martesia striata* (LINNÉ) var. *tokyoensis* YOKOYAMA, Moll. Tokyo [etc.] p. 428, pl. XLVIII, figs. 2, 3.—1927. *Pholas cupula* YOKOYAMA: YOKOYAMA, Moll. westn. Shimosa [etc.], p. 454, pl. LII, fig. 2.

Fossil occurrence.—Numa, Tabata and Koyasu. Ecology.—P -0-34, J -33+. N<sub>1</sub>. R, C, Wd. This subspecies comes from Hibiki-Nada (J 33) and Onoda (J 33) along the Tsushima Current and its branch.

Genus *Nettastomella* CARPENTER, 1865

*Nettastomella japonica* (YOKOYAMA) ヨコヤマスズガイ .....Pl. 56. Fig. 5

1920. *Jouannetia japonica* YOKOYAMA, Foss. Miura [ect.], pp. 105–106, pl. VII, figs. 1a–c.

Fossil occurrence.—Ôtsu. Ecology.—P 35–43, J 32+–41. N<sub>1</sub>. R. The record from Amakusa (J 32) extends the range.

Genus *Jouannetia* DESMOULINS, 1828Subgenus *Jouannetia* s. str.

*Jouannetia (Jouannetia) cumingii* (SOWERBY (G. B. II)) スズガイ .....Pl. 56. Fig. 10

1849. *Triumphalia Cumingii* SOWERBY (G. B. II), Thes. Conch., vol. II, pt. 10, p. 502, pl. CVI, figs. 56, 57.—1850. *Triumphalia Cumingii* SOWERBY (G. B. II), Proc. Zool. Soc. London, Pt. XVII (1849), no. CC, p. 161, pl. V, figs. 3, 3a.—1924. *Jouannetia cumingii* (SOWERBY): YOKOYAMA, Moll. Coral-Bed, pp. 38–39, pl. II, fig. 14.

Fossil occurrence.—Numa. Ecology.—P -0-34. N<sub>1</sub>. C.

## Familia Teredinidae

Genus *Teredo* LINNAEUS, 1758

"*Teredo*" sp. ....Pl. 20, Fig. 21

1927. *Teredo* sp., YOKOYAMA, Moll. westn. Shimosa [etc.], p. 454, pl. LII, fig. 2.

Fossil occurrence.—Koyasu. Ecology.—Boring into wood; otherwise unknown.

Ordo Anomalodesmata  
Superfamilia Pandoracea  
Familia Lyonsiidae  
Genus *Lyonsia* TURTON, 1822

*Lyonsia praetenuis* DUNKER ウスサザナミガイ .....Pl. 57. Figs. 9, 10

1822. *Lyonsia praetenuis* DUNKER, Index Moll. Mar. Japon., p. 180, pl. VII, fig. 13.—1922.  
*Lyonsia praetenuis* DUNKER · YOKOYAMA, Foss. Kazusa Shimosa, pp. 169-170, pl. XIV,  
figs. 9, 10.

Fossil occurrence.—Otake. Ecology.—Unknown.

Genus *Entodesma* PHILIPPI, 1845

*Entodesma naviculoides* YOKOYAMA フトオビクイ .....Pl. 57, Fig. 15

1922. *Entodesma naviculoides* YOKOYAMA, Foss. Kozusa Shimosa, p. 170, pl. VI, fig. 11.

Fossil occurrence.—Shitô. Ecology.—P 39-43, J 33+, 40-46. Though this species was once reported from Yanai (J 33), no specimens have subsequently collected from such a southern area.

Familia Myochamidae

Genus *Myadora* GRAY, 1840

*Myadora japonica* HABE ヒロカタビラガイ .....Pl. 57. Figs. 1, 4

1922. *Myadora fluctuosa* GOULD: YOKOYAMA, Foss. Kazusa Shimosa, pp. 170-171, pl. XIV, figs. 6, 7.—1950. *Myadora japonica* HABE, Illustr. Catal. Japan. Shells, [ser. 1], no. 4, p. 27, pl. 4, figs. 4-6.

Fossil occurrence.—Ôtake. Ecology.—P 34-41, J 33+-41. N<sub>1-2</sub>. The southern limit of Tsushima Current area is Yanai (J 33), western part of Seto-Naikai.

*Myadora ikebei* HABE ムカシカタビラガイ .....Pl. 57. Figs. 2, 3, 7, 8

1920. *Myadora reeviana* SMITH: YOKOYAMA, Foss. Miura [etc.], pp. 143-144, pl. XI, figs. 12a-b, 13a-d.—1922. *Myadora reeviana* SMITH: YOKOYAMA, Foss. Kazusa Shimosa, p. 171, pl. XIV, figs. 8, 8a, 11, 11a.—1950. *Myadora ikebei* HABE, Illustr. Catal. Japan. Shells, [ser. 1], no. 4, p. 30, pl. 4, fig. 17.

Fossil occurrence.—Naganuma, Koshiba and Shitô. Ecology.—P 35.

*Myadora yokoyamai* (OTUKA) HABE トガリカタビラガイ .....Pl. 57. Figs. 5, 6

1920. *Myadora triangularis* A. ADAMS: YOKOYAMA, Foss. Miura [etc.], p. 144, pl. XI, figs. 14a, b, 15a, b.—1950. *Myadora yokoyamai* (OTUKA MS.) HABE, Illustr. Catal. Japan. Shells, [ser. 1], no. 4, p. 28, pl. 4, figs. 7-9.

Fossil occurrence.—Naganuma. Ecology.—Known only Sôyô St. 432: [J 33] West coast of Kyushu, 148 m. depth, bottom temperature 16.0°C, specific gravity of bottom 25.74, sandy mud and shell bottom. Still, I wonder if the material is living example or Pleistocene fossil.

## Familia Thraciidae

Genus *Cyathodonta* CONRAD, 1849Subgenus *Eximiothracia* IREDALE, 1924*Cyathodonta (Eximiothracia) concinna* (GOULD) シナヤカスエモノガイ ..Pl. 57. Fig. 191861. *Thracia concinna* GOULD, Proc. Boston Soc. nat. Hist., vol. VIII, p. 23.—1862. *Thracia concinna* GOULD: GOULD, Otia conch., p. 161.—1922. *Thracia papyracea* POLI: YOKOYAMA, Foss. Kazusa Shimosa, pp. 171-172, pl. XIV, figs. 12, 12a.Fossil occurrence.—Ôtake. Ecology.—P 31-35, J -36. N<sub>1</sub>. S.Genus *Thraciopsis* TATE & MAY, 1900*Thraciopsis transmontana* (YOKOYAMA) ヤマザキスエモノガイ ....Pl. 57, Figs. 11, 121922. *Thracia transmontana* YOKOYAMA, Foss. Kazusa Shimosa, pp. 172-173, pl. XIV, figs. 13, 13a, 14.Fossil occurrence.—Shitô. Ecology.—P 33-35<sup>+</sup>, J -36. N<sub>1</sub>. mS, sM. The northern limit is Chôshi (P 35) on the Pacific side.Genus *Parvithracia* FINLAY, 1926*Parvithracia sematana* (YOKOYAMA)

ミツカドスエモノガイ (セマタコスエモノガイ).....Pl. 57. Figs. 13, 14, 18

1922. *Thracia sematana* YOKOYAMA, Foss. Kazusa Shimosa, p. 173, pl. XIV, figs. 17, 18.Fossil occurrence.—Shitô. Ecology.—P 35<sup>+</sup>-38, J -42<sup>+</sup>. N<sub>3</sub>. S. The records from Sagami Bay (P 35) and Kumaishi (J 42) are based on my material.

## Superfamilia Poromyacea

## Familia Verticordiidae

Genus *Lyonsiella* SARS (G. O.), 1872Subgenus *Simplicicordia* KURODA & HABE, 1961*Lyonsiella (Simplicicordia) trigonata* (YOKOYAMA)

ミツカドハナシガイ .....Pl. 57, Figs. 16, 18

1922. *Thyasira trigonata* YOKOYAMA, Foss. Kazusa Shimosa, pp. 158-159, pl. IX, figs. 11, 12.

Fossil occurrence.—Shitô. Ecology.—unknown.

## Superfamilia Poromyacea

## Familia Poromyacidae

Genus *Poromya* FORBES, 1844*Poromya flexuosa* YOKOYAMA スナメガイ .....Pl. 57, Figs. 20, 231922. *Corbula sematensis* YOKOYAMA (pars), Foss. Kazusa Shimosa, pp. 124-125, pl. VI, fig. 20, (not fig. 19).—1922. *Poromya flexuosa* YOKOYAMA, Id., pp. 173-174, pl. XIV, figs. 15, 15a, 16.Fossil occurrence.—Shitô. Ecology.—P 33-35, J 32<sup>+</sup>-42<sup>+</sup>. N<sub>2-4</sub>. mS, sM. This form ranges from Amakusa (J 32) to Kumaishi (J 42) along the Tsushima Current.

## Familia Cuspidariidae

Genus *Cardiomya* ADAMS (A.), 1864Subgenus *Cardiomya* s. str.*Cardiomya (Cardiomya) gouldiana septentrionalis* (KURODA)

ヒメシヤクシガイ .....Pl. 57, Fig. 24

1927. *Cuspidaria (Cardiomya) gouldiana* HINDS: YOKOYAMA, Moll. Tokyo [etc.], p. 434, pl. XLIX, fig. 7.—1948. [*Neaera gouldiana* HINDS subsp.] *septentrionalis* KURODA, Japan. Jour. Malac., vol. 15, nos. 1-4, pp. 17-18, pl. 2, fig. 12.

Fossil occurrence.—Shinagawa. Ecology.—P 31-35+, J -41. N<sub>2-4</sub>B<sub>2-3</sub>. mS, sM. The record from Sagami Bay (P 35) extends the range.

Genus *Cuspidaria* NARDO, 1840Subgenus *Plectodon* CARPENTER, 1864*Cuspidaria (Plectodon) ligula* YOKOYAMA ヒナノシヤクシガイ .....Pl. 57, Figs. 21, 22

1922. *Cuspidaria ligula* YOKOYAMA, Foss. Kazusa Shimoso, p. 169, pl. XIV, figs. 3, 4.

Fossil occurrence.—Shitô. Ecology.—P 39-35, J 37. N<sub>1</sub>. S.

## Phylum Annelida

## Classis Polychaeta

## Ordo Sedentaria

## Familia Serpulidae

Genus *Hydroides* GUNIVERUS, 1768*Hydroides reticulatus* (YOKOYAMA) .....Pl. 4, Figs. 24, 27

1924. *Vermetus reticulatus* YOKOYAMA, Moll. Coral-Bed, p. 24, pl. I, figs. 18, 18a, 19, (non 17, 17a).

Fossil occurrence.—Numa.

*Hydroides defrenatus* (YOKOYAMA) .....Pl. 4, Figs. 22, 23

1927. *Vermetus defrenatus* YOKOYAMA, Moll. Tokyo [etc.], pp. 413-414, pl. XLVI, figs. 18, 19.

Fossil occurrence.—Ôji.

Genus *Pomatoceros* PHILIPPI, 1844*Pomatoceros* sp. ....Pl. 4, Fig. 25

1924. *Vermetus reticulatus* YOKOYAMA (pars), p. 24, pl. I, figs. 17, 17a, (non figs. 18, 19).

Fossil occurrence.—Numa.

Genus *Spirorbis* DAUDIN, 1800*Spirorbis perplanorbis* (YOKOYAMA) .....Pl. 4, Fig. 18

1927. *Vermetus perplanorbis* YOKOYAMA, Moll. westn. Shimoso, p. 450, pl. LI, fig. 14.

Fossil occurrence.—Koyasu.

*Spirorbis tricarinatus* (YOKOYAMA) .....Pl. 4, Fig. 20

1924. *Spirogyphus tricarinatus* YOKOYAMA, Moll. Coral-Bed, p. 24, pl. 1, figs. 14, 14a.  
Fossil occurrence.—Numa.

#### Genus *Ditrupe* BERKELEY, 1835

*Ditrupe* [*arietina* subsp.?] *edoensis* (TOKUNAGA)

ツノガイダマシ .....Pl. 20, Figs. 12, 15, 16

[1776. *Dentalium arietinum* MÜLLER (O.F.), Zool. Dan. Prod., p. 236.]—1906. *Dentalium edoensis* [-e] TOKUNAGA, Foss. Env. Tokyo, pp. 34-35, pl. II, fig. 17.—1920. *Dentalium edoense* TOKUNAGA: YOKOYAMA, Foss. Miura [etc.], pp. 103-104, pl. VI, fig. 28.—1920. *Cadulus gordonis* YOKOYAMA, Id., p. 104, pl. VI, figs. 25, 26.

Fossil occurrence.—Ôkine and Naganuma.

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N. B. For brevity many of the references indicated in the synonymy list are not repeated here.

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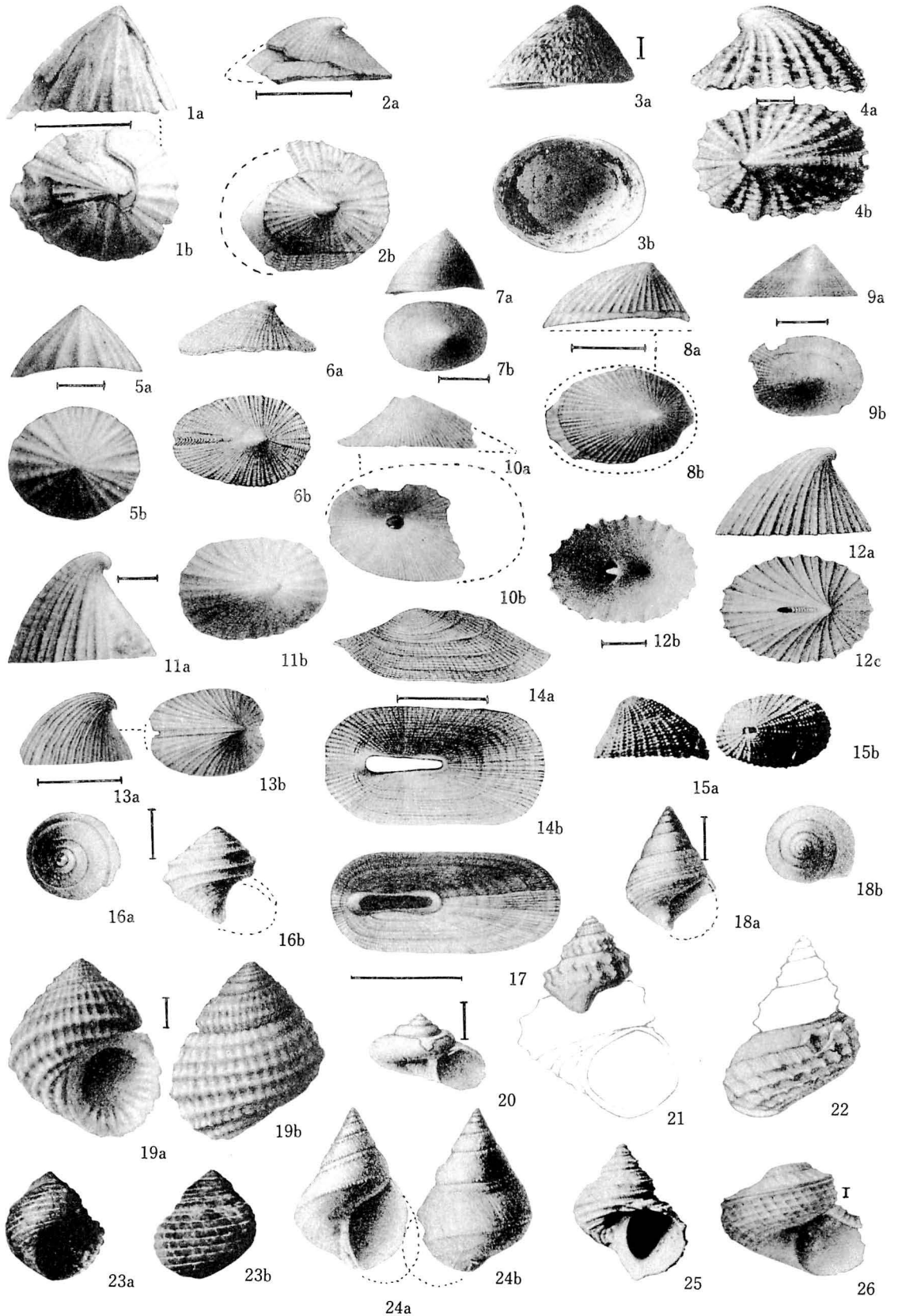
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## Explanation of Plate 1

### Figure

- 1 (a, b), 5 (a, b). *Acmaea pallida* (GOULD). *Helcioniscus pallidus* (GOULD) : YOKOYAMA, 1920, pl. VI, fig. 16 (a, b), 17 (a, b). Loc. Koshiba (CM20302, CM20303)
- 2 (a, b). *Tugali vadososinuata* (YOKOYAMA). *Emarginula* sp. : YOKOYAMA, 1920, pl. VI, fig. 15 (a, b). Loc. Koshiba (CM20295)
- 3 (a, b). *Collisella (Conoidacmea) heroldi* (DUNKER). *Helcioniscus toreuma* (REEVE) sensu YOKOYAMA, 1927, pl. XLVIII, fig. 4. Loc. Tabata (CM23892)
- 4 (a, b). *Clypidina (Montfortula) picta* (DUNKER). Lectotype of *Subemarginula cratitoides* YOKOYAMA, 1924, pl. II, fig. 10. Loc. Numa (CM21895)
5. see fig. 1
- 6 (a, b). *Tugali vadososinuata* (YOKOYAMA). Lectotype of *Emarginula vadososinuata* YOKOYAMA, 1922, pl. VI, fig. 5. Loc. Shitô (CM21041)
- 7 (a, b). *Cocculina ? nojimensis* (YOKOYAMA). Holotype of *Acmaea nojimensis* YOKOYAMA, 1920, pl. VI, fig. 11 (a, b). Loc. Nojima (CM20301)
- 8 (a, b). *Collisella (Conoidacmea) heroldi* (DUNKER). *Acmaea heroldi* DUNKER : YOKOYAMA, 1920, pl. VI, fig. 12 (a, b). Loc. Ôtsu (CM20237)
- 9 (a, b). *Cocculina kuragiensis* (YOKOYAMA). Holotype of *Acmaea kuragiensis* YOKOYAMA, 1920, pl. VI, fig. 9 (a, b). Loc. Koshiba (CM20300)
- 10 (a, b). *Diodora yokoyamai kosibensis* OTUKA, holotype. *Fissuridea* cf. *tanneri* (VERRILL) sensu YOKOYAMA, 1920, pl. VI, figs. 18 (a, b). Loc. Koshiba (CM20291)
- 11 (a, b). *Puncturella (Puncturella) fastigiata* ADAMS (A.). Lectotype of *Puncturella subconica* YOKOYAMA, 1920, pl. VI, figs. 7 (a, b). Loc. Koshiba (CM20292)
- 12 (a-c). *Puncturella (Puncturella) nobilis* ADAMS (A.). *Puncturella nobilis* ADAMS : YOKOYAMA, 1922, pl. VI, fig. 4. Loc. Shitô (CM21032)
- 13 (a, b). *Emarginula fragilis* YOKOYAMA, holotype, YOKOYAMA, 1920, pl. VI, fig. 7 (a, b). Loc. Shimo-Miyata (CM20292)
- 14 (a, b). *Macroschisma dilatatum* ADAMS (A.). Lectotype of *Macroschisma sinensis* [-e] AD. var. *brevis* [-e] YOKOYAMA, 1922, pl. VI, fig. 3. Loc. Ôtake (CM21131)
- 15 (a, b). *Diodora quadriradiata* (REEVE) var. *Fissuridea rueppellii* (SOWERBY) sensu YOKOYAMA, 1924, pl. II, fig. 9. Loc. Numa (CM21893)
- 16 (a, b). *Littorina brevicula* (PHILIPPI). *Leptothyra* cf. *paucicostata* DALL sensu YOKOYAMA, 1920, pl. V, figs. 15 (a, b). Loc. Ôtsu (CM20265)
17. *Macroschisma sinense* ADAMS (A.) : YOKOYAMA, 1920, pl. VI, fig. 3. Loc. Ôtsu (CM21288)
- 18 (a, b). *Cantharidus (Cantharidus) callichrous* (PHILIPPI). *Cantharidus japonicus* A. ADAMS sensu YOKOYAMA, 1920, pl. V, figs. 26 (a, b). Loc. Ôtsu (CM20269 missing)
- 19 (a, b). *Euchelus pauperculus* (LISCHKE). Holotype of *Euchelus fenestratus* YOKOYAMA, 1920, pl. VI, figs. 2 (a, b). Loc. Yokosuka (CM20284)
20. *Ethaliopsis* sp. *Margarita umbilicalis* BRODERIP & SOWERBY sensu YOKOYAMA, 1920, pl. V, fig. 29. Loc. Kamakura (CM20278)
- 21, 22. *Bathybembix crumpi yokoyamai* (OTUKA), lectotype (fig. 21) and paralectotype (fig. 22). *Bembix crumpi* (PILSBRY) sensu YOKOYAMA, 1920, pl. V, figs. 27, 28. Loc. Kamakura (fig. 21) and Teramae (fig. 22) (CM20270, CM20271)
- 23 (a, b). *Monodonta (Monodonta) trochiformis* (GRABAU & KING). *Monodonta labio* LINNÉ sensu YOKOYAMA, 1924, pl. II, fig. 8. Loc. Kôyatsu (CM21886)
- 24 (a, b). *Bathybembix argenteonitens* (LISCHKE) (f. *convexiusculus* YOKOYAMA). Lectotype of *Bembix convexiusculum* YOKOYAMA, 1920, pl. V, figs. 32 (a, b). Loc. Kamakura (CM20276)
25. *Turbo (Batillus) cornutus* SOLANDER in LIGHTFOOT : YOKOYAMA, 1924, pl. I, fig. 22. Loc. Numa (CM21879)
26. *Scissurella staminea* (ADAMS (A.)). *Scissurella turbinata* (A. ADAMS) sensu YOKOYAMA, 1924, pl. V, fig. 21. Loc. Numa (CM21891)

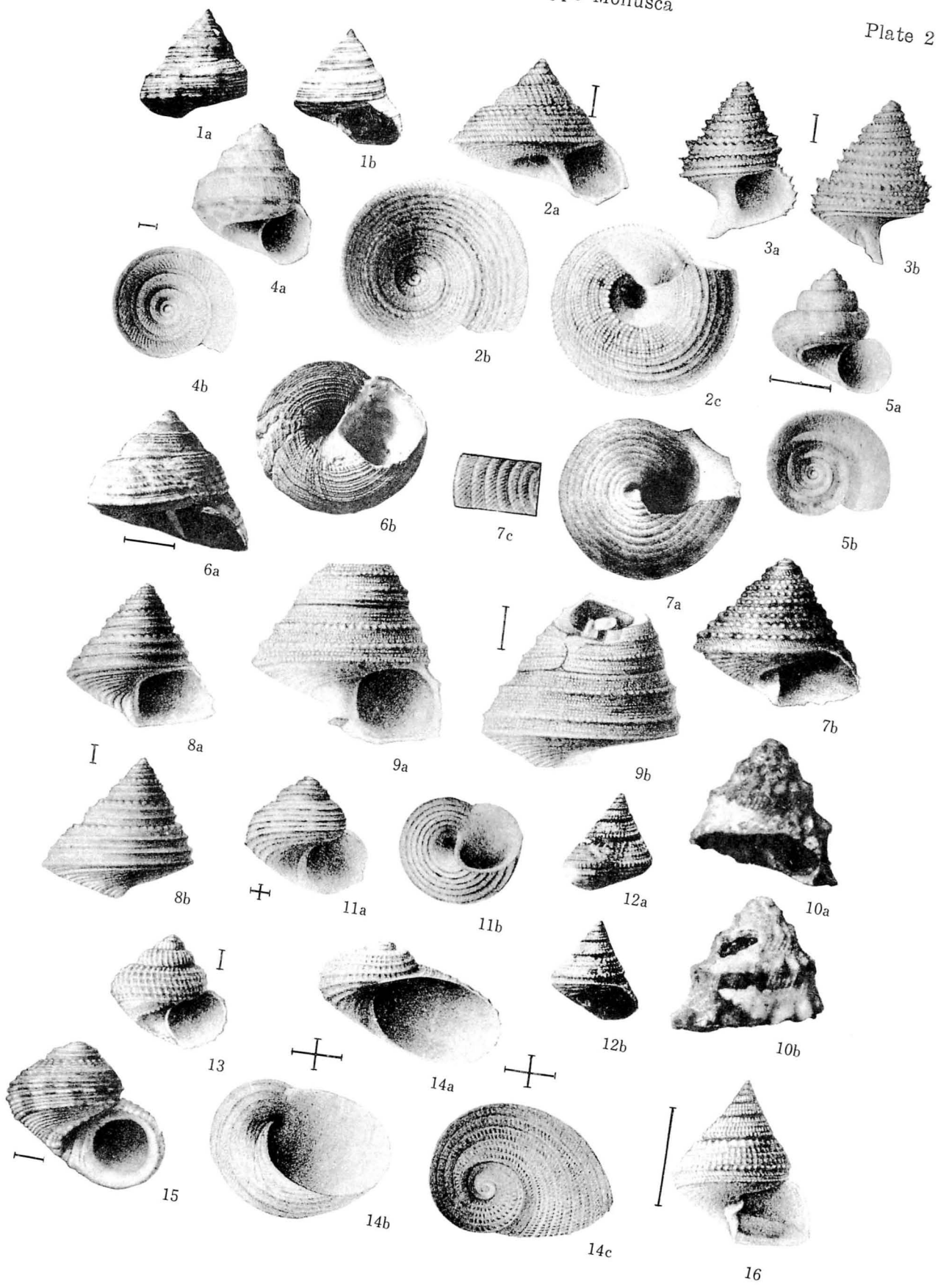




## Explanation of Plate 2

### Figure

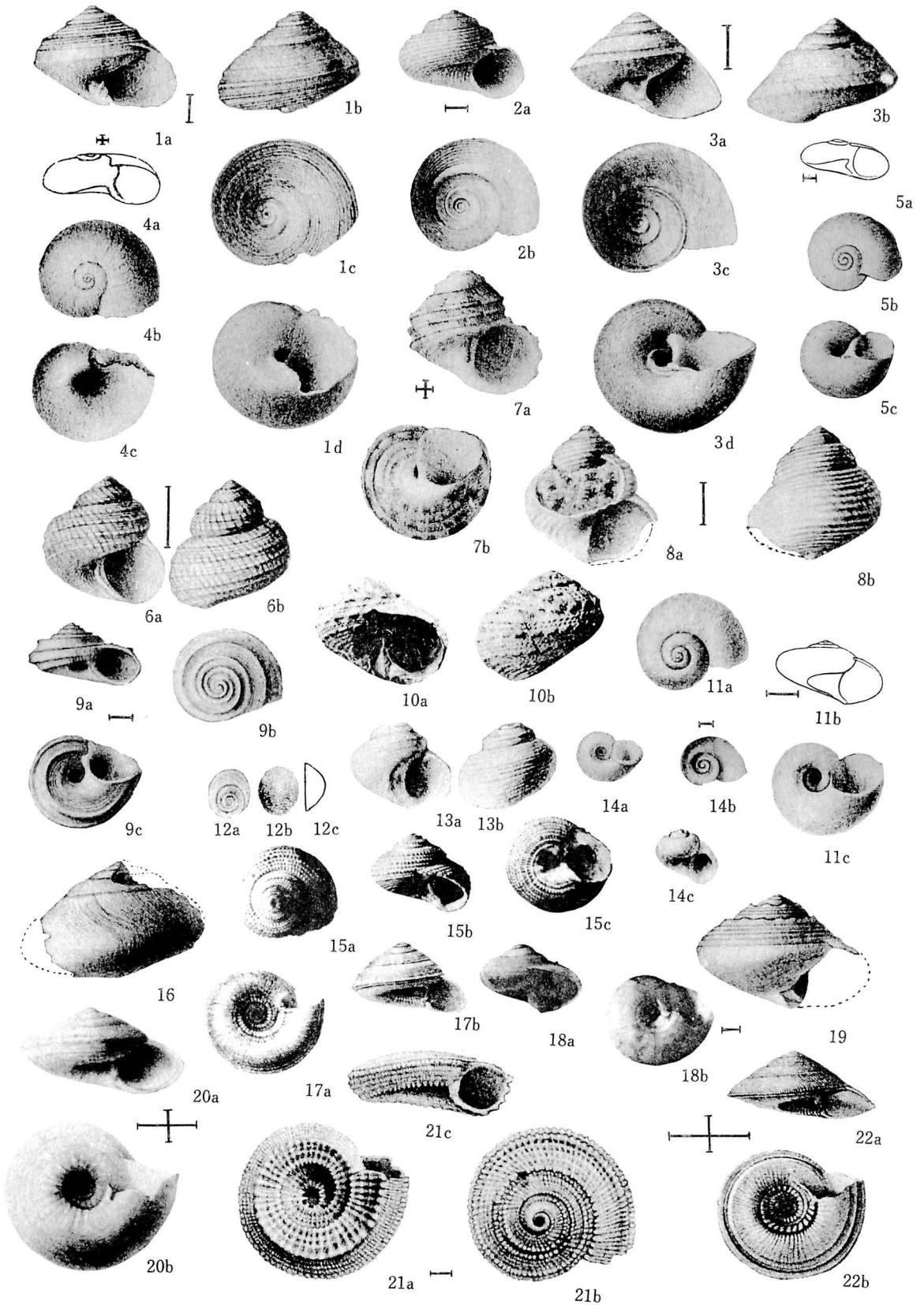
- 1 (a, b). *Calliostoma (Tristichotrochus) consors* (LISCHKE). *Calliostoma unicum* (DUNKER) var. *shinagawensis* [-e] TOKUNAGA sensu YOKOYAMA, 1922, pl. V, fig. 25. Loc. Ôtake (CM21115)
- 2 (a-c). *Enida japonica* ADAMS (A.). Lectotype of *Chlorostoma miyatense* YOKOYAMA, 1920, pl. V, figs. 33 (a-c). Loc. Shimo-Miyata (CM20266)
- 3 (a, b). *Calliostoma (Tristichotrochus) aculeatum* SOWERBY (G.B. III). Holotype of *Trochus spinigera* [-ger] YOKOYAMA, 1922, pl. V, fig. 18. Loc. Shitô (CM21104)
- 4 (a, b). *Lirularia (Conotalopia) sematensis* (OYAMA), lectotype. *Solariella philippensis* WATSON sensu YOKOYAMA, 1922, pl. V, fig. 21. Loc. Ôtake (CM21107)
- 5 (a, b). *Minolia (Minolia) subangulata* KURODA & HABE, lectotype. *Solariella angulata* TOKUNAGA sensu YOKOYAMA, 1922, pl. V, fig. 20. Loc. Shitô (CM21111)
- 6 (a, b). *Enida japonica* ADAMS (A.): YOKOYAMA, 1927, pl. XLVIII, fig. 1. Loc. Shinagawa (CM23875)
- 7 (a-c). *Clanculus (Clanculus) margaritarius* PHILIPPI. Holotype of *Trochus (Clanculus) gordonis* YOKOYAMA, 1924, pl. II, figs. 4, 4a. Loc. Numa (CM21885)
- 8 (a, b). *Calliostoma (Tristichotrochus) consors* (LISCHKE). Holotype of *Calliostoma sagami-anum* YOKOYAMA, 1920, pl. VI, figs. 1 (a, b). Loc. Naganuma (CM20283)
- 9 (a, b). *Calliostoma (Tristichotrochus) shinagawense cipangoanum* YOKOYAMA. Holotype of *Calliostoma cipangoanum* YOKOYAMA, 1920, pl. V, figs. 23 (a, b). Loc. Yokosuka (CM20282 missing)
- 10 (a, b). *Astraliium haematragum* (MENKE). *Astraliium (Cyclocantha) haematragus* (MENKE): YOKOYAMA, 1924, pl. II, fig. 7. Loc. Kôyatsu (CM21881)
- 11 (a, b). *Lirularia (Lirularia) pygmaea* (YOKOYAMA). Lectotype of *Leptothyra pygmaea* YOKOYAMA, 1922, pl. V, fig. 17. Loc. Tega (CM21100)
- 12 (a, b). *Turcica coreensis* PEASE. *Turcica imperialis* A. ADAMS: YOKOYAMA, 1922, pl. V, fig. 23. Loc. Shitô (CM21113)
13. *Minolia (Machaeroplax) delicata* (DALL). *Margarita cinerea* COUTHOUY sensu YOKOYAMA, 1920, pl. V, fig. 30. Loc. Kami-Miyata (CM20280)
- 14 (a-c). *Granata lyrata* (PILSBRY). *Stomatella lyrata* PILSBRY: YOKOYAMA, 1922, pl. VI, fig. 2. Loc. Ôtake (CM21129)
15. *Neocollonia pilula* (DUNKER). *Leptothyra pilula* (DUNKER): YOKOYAMA, 1924, pl. V, fig. 20. Loc. Numa (CM21882)
16. *Turcica coreensis* PEASE. *Turcica imperialis* A. ADAMS: YOKOYAMA, 1920, pl. V, fig. 31. Loc. Shimo-Miyata (CM20281)



### Explanation of Plate 3

#### Figure

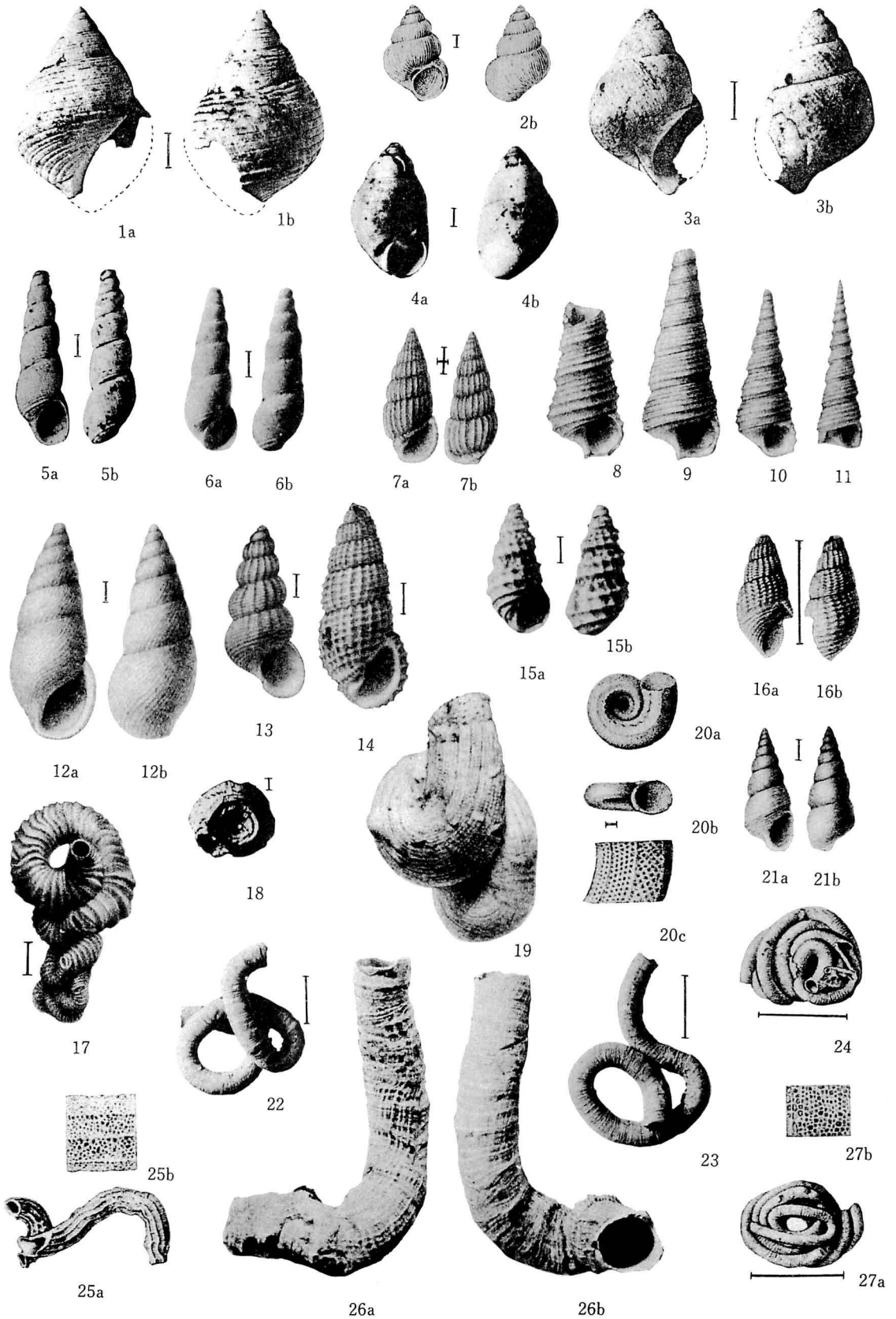
- 1 (a-d). *Tegula (Chlorostoma) rustica* (GMELIN). Holotype of *Chlorostoma tokunagai* YOKOYAMA, 1920, pl. I, figs. 25 (a-d). Loc. Yokosuka (CM20268)
- 2 (a, b). *Daronia yokoyamai* OYAMA, n. n., holotype. *Minolia tasmanica* TENISON-WOODS sensu YOKOYAMA, 1922, pl. V, fig. 19. Loc. Ôtake (CM21105)
- 3 (a-d). *Tegula (Chlorostoma) pfeifferi* (PHILIPPI). Holotype of *Chlorostoma quantoanum* YOKOYAMA, 1920, pl. V, figs. 24 (a-d). Loc. Yokosuka (CM20267)
- 4 (a-c). *Lissotesta sobrina* (ADAMS (A.)). Lectotype of *Skenea nipponica* YOKOYAMA, 1920, pl. V, figs. 1 (a-c). Loc. Ôtsu (CM20211 missing)
- 5 (a-c). *Lissotesta sobrina* (ADAMS (A.)). *Skenea nipponica* YOKOYAMA, 1922, pl. IV, fig. 7. Loc. Tega (CM20980)
- 6 (a, b). *Homalopoma amussitatum* (GOULD). *Leptothyra purpurascens* DUNKER sensu YOKOYAMA, 1920, pl. V, figs. 22 (a, b). Loc. Shimo-Miyata (CM20258)
- 7 (a, b). *Turbo "crassilirata (YOKOYAMA)"*. Lectotype of *Leptothyra crassilirata* YOKOYAMA, 1922, pl. V, fig. 22. Loc. Tega (CM21102 missing)
- 8 (a, b). *Homalopoma sangarensense* (SCHRENCK). *Leptothyra amussitata* (GOULD) sensu YOKOYAMA, 1920, pl. V, figs. 21 (a, b). Loc. Shimo-Miyata (CM21240)
- 9 (a-c). *Pygmaerota duplicata* (LISCHKE). *Cyclostrema duplicatum* LISCHKE : YOKOYAMA, 1920, pl. VI, figs. 8 (a-c). Loc. Naganuma (CM20287)
- 10 (a, b). *Lunella coronata coreensis* (RÉCLUZ). *Turbo (Marmorostoma) granulatus* GMELIN sensu YOKOYAMA, 1922, pl. V, fig. 10. Loc. Shitô (CM21095)
- 11 (a, b). *Microgaza planorboides* (YOKOYAMA). Lectotype of *Skenea planorboides* YOKOYAMA, 1922, pl. IV, fig. 8. Loc. Shitô at Takata (CM20981)
- 12 (a-c), 13 (a, b). *Lunella coronata coreensis* (RÉCLUZ). *Turbo (Marmorostoma) coreensis* RÉCLUZ : YOKOYAMA, 1920, pl. V, figs. 19 (a, b), 20 (a-c). Loc. Yokosuka (CM20252)
- 14 (a-c). *Moerchiella stilicidiata* (YOKOYAMA). Holotype of *Cyclostrema stilicidiatum* YOKOYAMA, 1922, pl. V, fig. 26. Loc. Shitô (CM21128)
- 15 (a-c). *Clanculus (Euclanculus) microdon ater* PILSBRY. *Trochus (Clanculus) atropurpureus* (GOULD) sensu YOKOYAMA, 1924, pl. II, fig. 5. Loc. Numa (CM21883)
16. *Suchium giganteum* (LESSON). *Umbonium giganteum* (LESSON) : YOKOYAMA, 1920, pl. VI, fig. 5. Loc. Naganuma (CM20285)
- 17 (a, b). *Philippia radiata* (RÖDING). *Solarium cingulum* KIENER sensu YOKOYAMA, 1922, pl. III, fig. 19. Loc. Shitô (CM21968)
- 18 (a, b). *Suchium costatum* (KIENER) (?). Holotype of *Monilea ojiensis* YOKOYAMA, 1927, pl. XLVII, fig. 27. Loc. Ôji (CM23877)
19. *Suchium costatum* (KIENER). *Umbonium costatum* VALENCIENNES : YOKOYAMA, 1920, pl. VI, fig. 6. Loc. Naganuma (CM20286)
- 20 (a, b). *Architectonica (Solariaxis) lenticulata* (YOKOYAMA). Holotype of *Solarium lenticulatum* YOKOYAMA, 1920, pl. IV, figs. 21 (a, b). Loc. Koshiba (CM20205)
- 21 (a-c). *Torinista elegantula* (YOKOYAMA). Holotype of *Torinia elegantula* YOKOYAMA, 1922, pl. IV, fig. 2. Loc. Shitô (CM20972)
- 22 (a, b). *Architectonica (Architectonica) yokoyamai* OYAMA, holotype. *Solarium pseudoper-spectivum* BROCCHI sensu YOKOYAMA, 1922, pl. III, fig. 20. Loc. Shitô (CM20970)



#### Explanation of Plate 4

##### Figure

- 1 (a, b). *Littorinopsis strigata* (LISCHKE). Holotype of *Littorina adonis* YOKOYAMA, 1927, pl. LI, fig. 8. Loc. Koyasu (CM24287)
- 2 (a, b). *Putilla paludinoides* (YOKOYAMA). Lectotype of *Rissoa (Cingula) paludinoides* YOKOYAMA, 1927, pl. XLVI, fig. 23. Loc. Dôkanyama (CM23766 missing)
- 3 (a, b). *Assiminea (Assiminea) japonica* v. MARTENS. Holotype of *Littorina lucida* YOKOYAMA, 1927, pl. LI, fig. 9. Loc. Koyasu (CM24288)
- 4 (a, b). *Stenothyra edogawensis* (YOKOYAMA). Holotype of *Rissoa (Amphithalamus) edogawensis* YOKOYAMA, 1927, pl. LI, fig. 13. Loc. Ichikawa (CM24293)
- 5 (a, b). *Sinusicola filiola* (YOKOYAMA). Holotype of *Turbonilla (Careliopsis) filiola* YOKOYAMA, 1927, pl. LI, fig. 16. Loc. Koyasu (CM24336)
- 6 (a, b). *Sinusicola yendoii* (YOKOYAMA). Holotype of *Rissoina yendoii* YOKOYAMA, 1927, pl. XLVI, fig. 27. Loc. Kuruma-chô (CM23768)
- 7 (a, b). *Rissoina (Rissoina) laevicostulata* PILSBRY. Holotype of *Rissoina submercularis* YOKOYAMA, 1920, pl. IV, figs. 15 (a, b). Loc. Yokosuka (CM20207)
8. *Turritella (Neohaustator) nipponica nipponica* YOKOYAMA. Lectotype of *Turritella nipponica* YOKOYAMA, 1920, pl. IV, fig. 16. Loc. Koshiha (CM20196)
- 9, 10. *Turritella (Neohaustator) nipponica nojimaensis* IDA, paratype. Paratype of *Turritella nipponica nipponica* YOKOYAMA, 1920, pl. IV, figs. 17, 18. Loc. Nojima (fig. 9) and Kanazawa (fig. 10) (CM20197, CM20198)
11. *Turritella (Neohaustator) nipponica miyata* IDA, paratype. Paratype of *Turritella nipponica nipponica* YOKOYAMA, 1920, pl. IV, fig. 19. Loc. Kami-Miyata (CM20199)
- 12 (a, b). *Rissoina (Rissoinella) zeltenerioides* YOKOYAMA. Holotype of *Rissoina zeltenerioides* YOKOYAMA, 1920, pl. IV, figs. 20 (a, b). Loc. Yokosuka (CM20208)
13. *Alvania concinna* ADAMS (A.). *Rissoa (Alvania) concinna* A. ADAMS: YOKOYAMA, 1924, pl. V, fig. 11. Loc. Numa (CM21858)
14. *Rissoina (Phosinella) pura* (GOULD). Lectotype of *Rissoina (Phosinella) cancellata* PHILIPPI var. *awana* YOKOYAMA, 1924, pl. V, fig. 10. Loc. Numa (CM21860)
- 15 (a, b). *Merelina tokunagai* (YOKOYAMA). Lectotype of *Fenella tokunagai* YOKOYAMA, 1927, pl. XLVI, fig. 25. Loc. Tabata (CM23774 missing)
- 16 (a, b). *Semisulcospira libertina hidachiensis* (PILSBRY). *Melania nipponica* SMITH sensu YOKOYAMA, 1922, pl. IV, fig. 1. Loc. Ôtake (CM20966 missing)
17. *Petalococonchus (Macrophragma?) annulatus* (YOKOYAMA). Holotype of *Vermetus annulatus* YOKOYAMA, 1924, pl. II, fig. 2. Loc. Numa (CM21855)
18. *Spirorbis perplanorbis* (YOKOYAMA). Holotype of *Vermetus perplanorbis* YOKOYAMA, 1927, pl. LI, fig. 14. Loc. Koyasu (CM24286)
19. *Serpulorbis medusae* (PILSBRY). *Thylacodes medusae* PILSBRY: YOKOYAMA, 1920, pl. IV, fig. 7. Loc. Shimo-Miyata (CM20193)
- 20 (a-c). *Spirorbis tricarinatus* (YOKOYAMA). Lectotype of *Spirogyphus tricarinatus* YOKOYAMA, 1924, pl. I, figs. 14, 14a. Loc. Numa (CM21849)
- 21 (a, b). *Rissoalaba plebeja* (YOKOYAMA). Lectotype of *Rissoa (Cingula) plebeja* YOKOYAMA, 1922, pl. IV, fig. 3. Loc. Shitô (CM21973)
- 22, 23. *Hydroides defrenatus* (YOKOYAMA). Lectotype (fig. 22) and paralectotype (fig. 23) of *Vermetus defrenatus* YOKOYAMA, 1927, pl. XLVI, figs. 18, 19. Loc. Ôji (CM23755, CM23754)
- 24, 27 (a, b). *Hydroides reticulatus* (YOKOYAMA). Lectotype (fig. 27) and paralectotype (fig. 24) of *Vermetus reticulatus* YOKOYAMA, 1924, pl. I, figs. 18, 18a. 19. Loc. Numa (CM21852, CM21851)
- 25 (a, b). *Pomatoceros* sp. Paratype of *Vermetus reticulatus* YOKOYAMA, 1924, pl. I, figs. 17, 17a. Loc. Numa (CM21850)
- 26 (a, b). *Serpulorbis imbricatus* (DUNKER). *Thylacodes medusae* PILSBRY sensu YOKOYAMA, 1922 [non 1920], pl. III, fig. 17. Loc. Ôtake (CM20964)
27. see fig. 24.

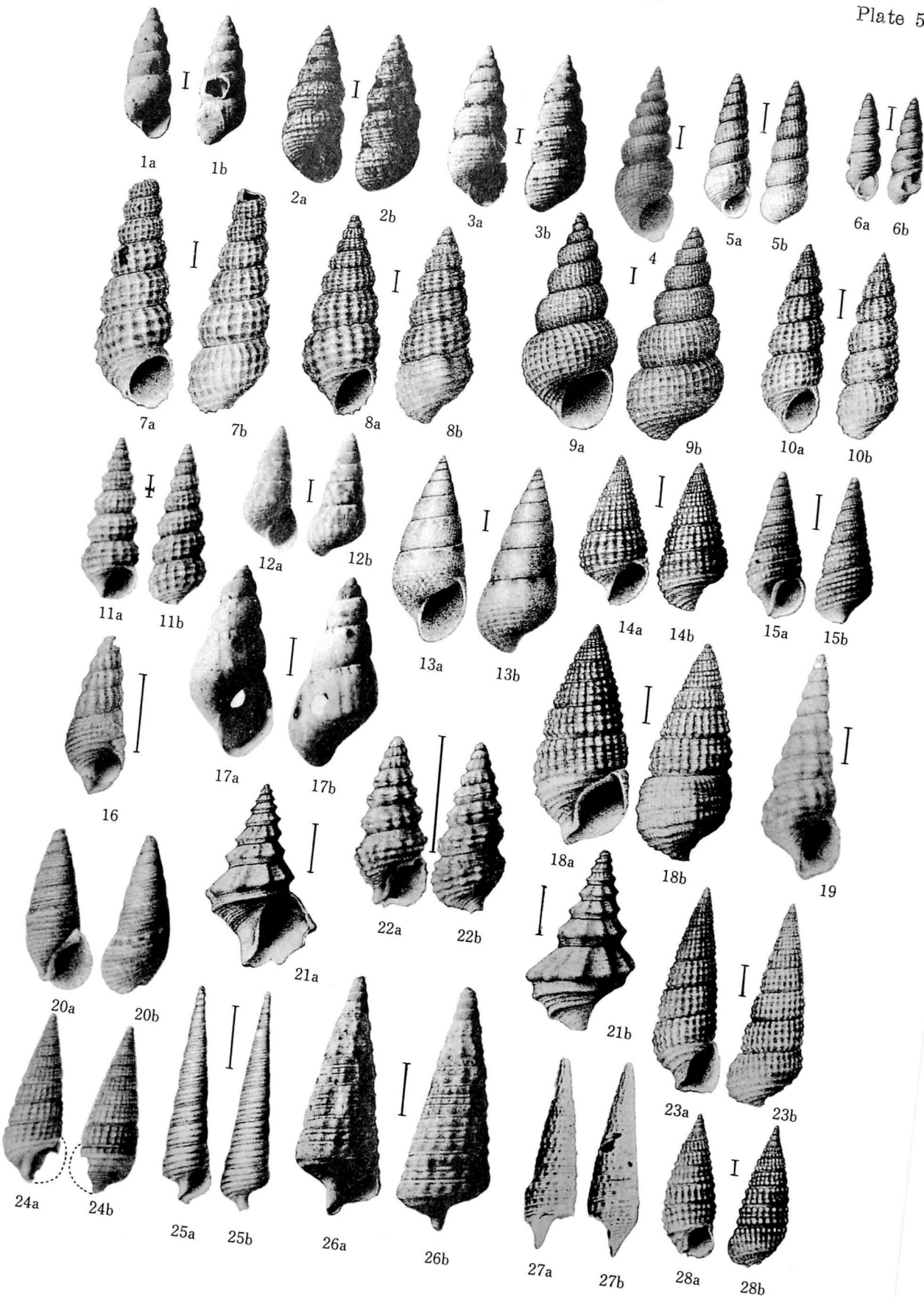


## Explanation of Plate 5

### Figure

- 1 (a, b). *Eufenella ichikawensis* (YOKOYAMA). Lectotype of *Rissoa ichikawensis* YOKOYAMA, 1927, pl. LI, fig. 5. Loc. Ichikawa (CM24291)
- 2 (a, b), 3 (a, b). *Eufenella pupoides* (ADAMS (A.)). Lectotype (fig. 2) and paralectotype (fig. 3) of *Fenella perpupoides* YOKOYAMA, 1927, pl. LII, figs. 12, 11. Loc. Shimo-Sueyoshi (fig. 2) and Koyasu (fig. 3) (CM24302, CM24301)
4. *Eufenella pupoides* (ADAMS (A.)) var. *Fenella pupoides* A. ADAMS: YOKOYAMA, 1924, pl. V, fig. 9. Loc. Numa (CM21862)
- 5 (a, b), 6 (a, b). *Eufenella rufocincta* (ADAMS (A.)). *Fenella septentrionalis* TOKUNAGA: YOKOYAMA, 1922, pl. IV, figs. 5, 6. Loc. Tega (fig. 5) and Ôtake (fig. 6) (BM20977)
- 7 (a, b). *Clathrofenella reticulata longa* OYAMA, holotype. *Fenella orientalis* YOKOYAMA sensu YOKOYAMA, 1924, pl. I, fig. 26. Loc. Numa (CM21868)
- 8 (a, b). *Clathrofenella shinonis* (YOKOYAMA). Lectotype of *Fenella shinonis* YOKOYAMA, 1924, pl. I, fig. 25. Loc. Numa (CM21866)
- 9 (a, b). *Clathrofenella yamakawai* (YOKOYAMA). Lectotype of *Fenella yamakawai* YOKOYAMA, 1924, pl. I, fig. 24. Loc. Numa (CM21864)
- 10 (a, b). *Clathrofenella kenonis* (YOKOYAMA). Lectotype of *Fenella kenonis* YOKOYAMA, 1924, pl. I, fig. 27. Loc. Numa (CM21869)
- 11 (a, b). *Clathrofenella reticulata* (ADAMS (A.)). Lectotype of *Fenella orientalis* YOKOYAMA, 1920, pl. IV, figs. 12 (a, b). Loc. Yokosuka (CM20209)
- 12 (a, b). *Diala varia* ADAMS (A.). *Diala semistriata* PHILIPPI sensu YOKOYAMA, 1927, pl. XLVI, fig. 24. Loc. Dôkanyama (CM23764)
- 13 (a, b). *Diala varia* ADAMS (A.). *Diala semistriata* PHILIPPI sensu YOKOYAMA, 1924, pl. I, fig. 20. Loc. Numa (CM21814)
- 14 (a, b). *Bittium (Bittium) alutaceum naganumanum* YOKOYAMA. Lectotype of *Cerithiopsis hilaris* YOKOYAMA, 1924, pl. I, fig. 8. Loc. Numa (CM21838)
- 15 (a, b). *Bittium (Stylidium) yokosukense* OYAMA, holotype. *Bittium perpusillum* TRYON sensu YOKOYAMA, 1920, pl. IV, figs. 13 (a, b). Loc. Yokosuka (CM20246)
16. *Batillaria zonalis* (BRUGUIÈRE). *Potamides (Batillaria) zonalis* BRUGUIÈRE: YOKOYAMA, 1924, pl. V, fig. 18. Loc. Kôyatsu (CM21836)
- 17 (a, b). *Diffalaba vitrea* (SOWERBY (G.B. II)). Lectotype of *Litiopa simplex* YOKOYAMA, 1927, pl. XLVI, fig. 26. Loc. Dôkanyama (CM23762 missing)
- 18 (a, b). *Bittium (Bittium) alutaceum numamuranum* YOKOYAMA. Lectotype of *Bittium numamuranum* YOKOYAMA, 1924, pl. I, fig. 13. Loc. Numa (CM21834)
19. *Bittium (Bittium) binodulosum* YOKOYAMA, holotype, YOKOYAMA, 1920, pl. IV, fig. 8. Loc. Shimo-Miyata (CM20187)
- 20 (a, b). *Batillaria multiformis* (LISCHKE). *Potamides (Batillaria) multiformis* LISCHKE: YOKOYAMA, 1920, pl. IV, fig. 9. Loc. Ôtsu (CM20189)
- 21 (a, b). *Bittium (Plesiotrochus) acutangulum* YOKOYAMA. Holotype of *Bittium acutangulum* YOKOYAMA, 1924, pl. I, fig. 7. Loc. Numa (CM21832)
- 22 (a, b). *Theridium kobelti* (DUNKER). *Cerithium kobelti* DUNKER: YOKOYAMA, 1920, pl. IV, figs. 10 (a, b). Loc. Ôtsu (CM20184)
- 23 (a, b). *Bittium (Bittium) glareosum* GOULD. Lectotype of *Cerithiopsis satonii* YOKOYAMA, 1924, pl. I, fig. 23. Loc. Numa (CM21841)
- 24 (a, b). *Cerithideopsis (Cerithideopsilla) djadjariensis* (MARTIN (K.)). *Potamides (Tympanotonos) fluviatilis* POTIEZ & MICHAUD sensu YOKOYAMA, 1920, pl. IV, fig. 14. Loc. Ôtsu (CM20188 missing)
- 25 (a, b). *Seila yokoyamai* COSSMANN, apolectotype. Lectotype of *Cerithiopsis trisulcatus* YOKOYAMA, 1922, pl. III, fig. 15. Loc. Shitô (CM20957)
- 26 (a, b). *Rhinoclavis (Ochetoclava) kochi* (PHILIPPI). Lectotype of *Cerithiopsis pontilis* YOKOYAMA, 1927, pl. LI, fig. 7. Loc. Ichikawa (CM24282)
- 27 (a, b). *Rhinoclavis (Ochetoclava) kochi* (PHILIPPI). *Cerithium (Clava) kochi* PHILIPPI: YOKOYAMA, 1922, pl. III, fig. 13. Loc. Ôtake (CM21949)
- 28 (a, b). *Cyrbasia (Joculator) pulviformis* (YOKOYAMA). Holotype of *Cerithiopsis pulviformis* YOKOYAMA, 1924, pl. I, fig. 15. Loc. Numa (CM21840)

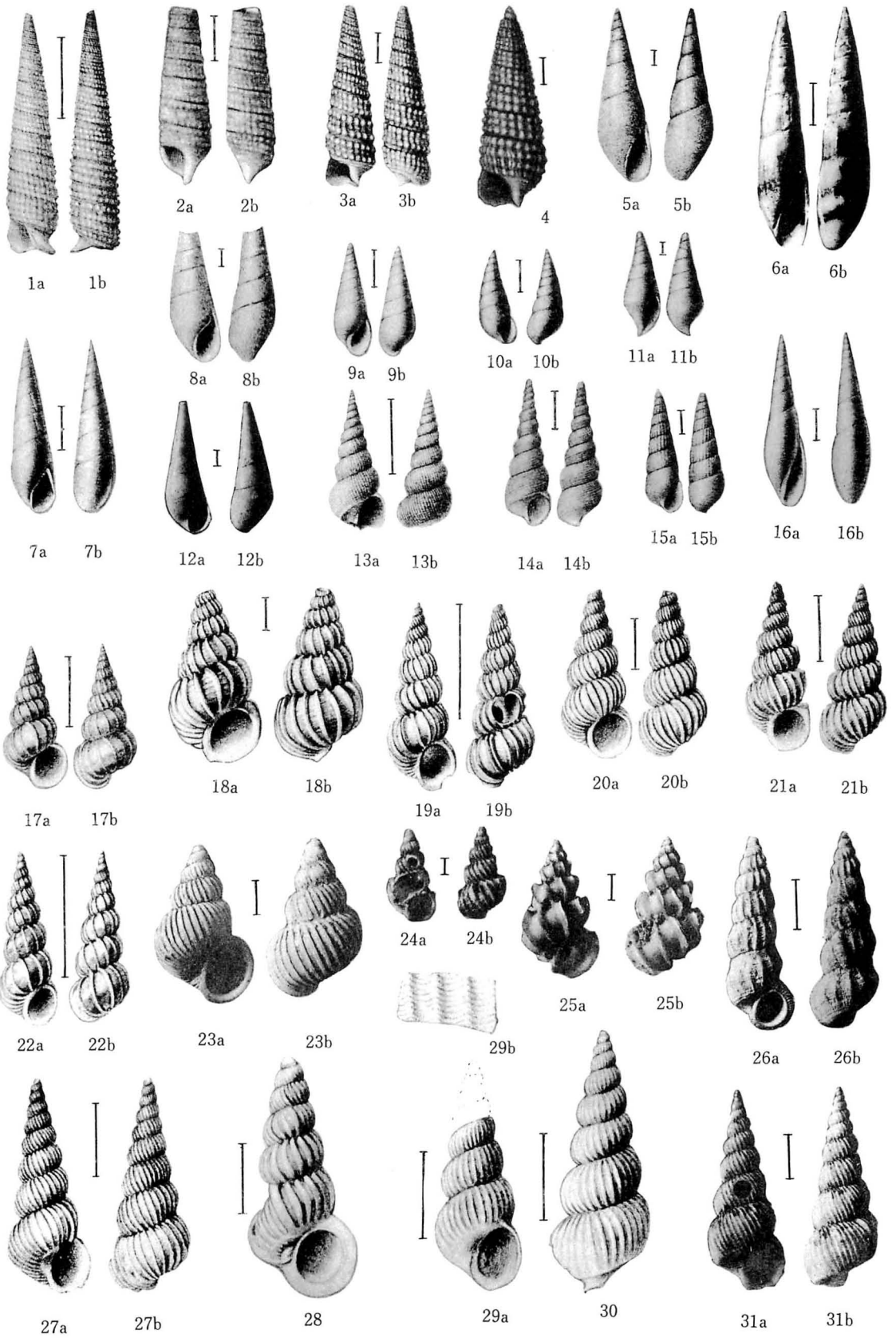




## Explanation of Plate 6

Figure

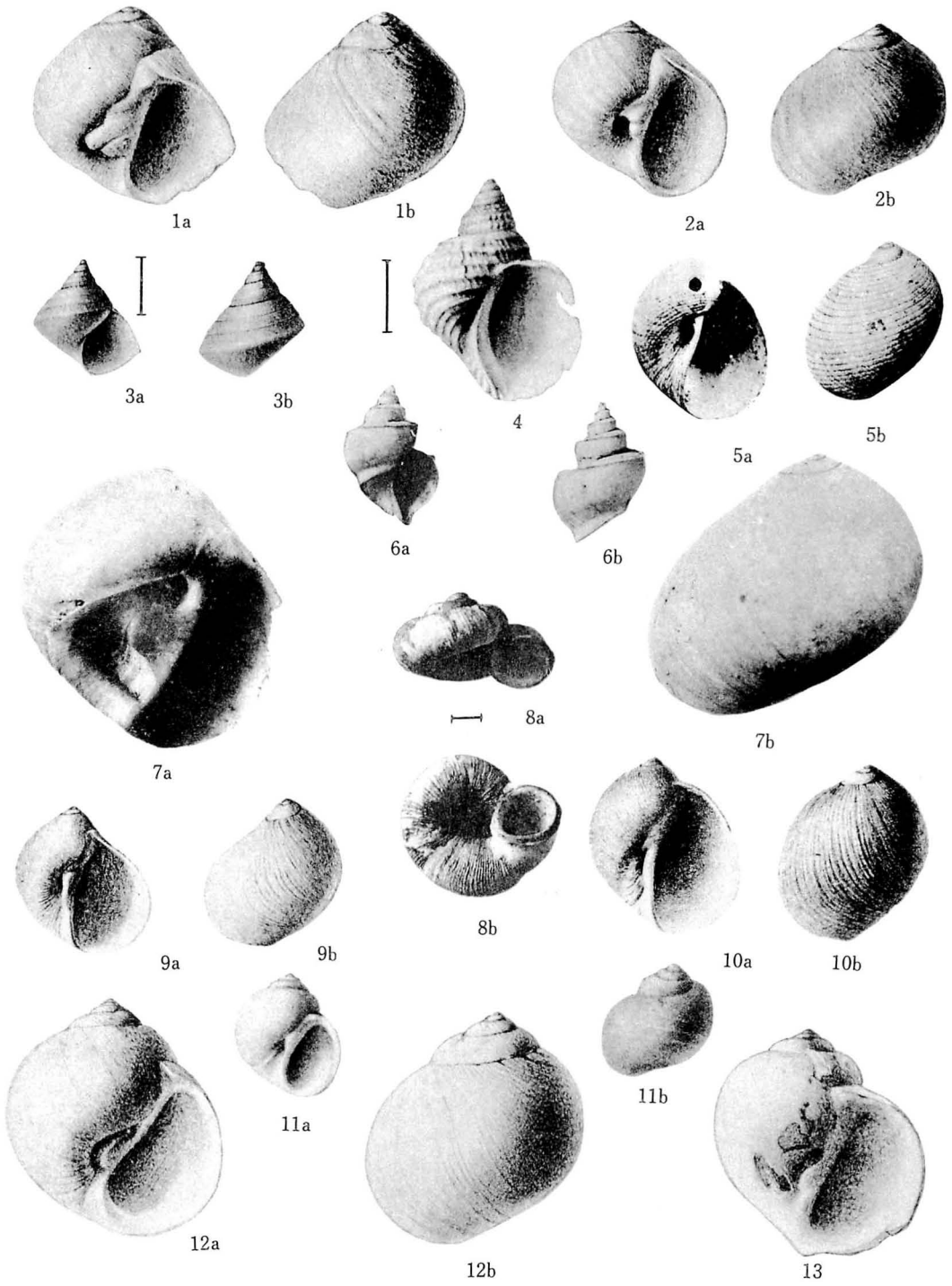
- 1 (a, b). *Triphora multigyrata* (YOKOYAMA). Holotype of *Triforis multigyrata* YOKOYAMA, 1922, pl. V, fig. 5. Loc. Shitô (CM20961)
- 2 (a, b). *Triphora otsuensis* (YOKOYAMA). Lectotype of *Triforis otsuensis* YOKOYAMA, 1920, pl. IV, figs. 11 (a, b). Loc. Ôtsu (CM20191)
- 3 (a, b). *Triphora conspersa* (SMITH (E.A.)). *Triforis otsuensis* YOKOYAMA, 1920, sensu YOKOYAMA, 1922, pl. III, fig. 16. Loc. Shitô (CM20959)
4. *Triphora conspersa* (SMITH (E.A.)). *Triforis exilis* DUNKER sensu YOKOYAMA, 1924, pl. V, fig. 16. Loc. Numa (CM21844)
- 5 (a, b). *Eulima hojoensis* YOKOYAMA. Holotype of *Eulima (Leiostraca) hojoensis* YOKOYAMA, 1924, pl. I, fig. 21. Loc. Numa (CM21873)
- 6 (a, b). *Eulima ozawai* YOKOYAMA. Holotype of *Eulima (Subularia) ozawai* YOKOYAMA, 1927, pl. LI, fig. 15. Loc. Ichikawa (CM24320)
- 7 (a, b). *Balcis tokunagai* YOKOYAMA. Lectotype of *Eulima (Leiostraca) tokunagai* YOKOYAMA, 1922, pl. IV, fig. 22. Loc. Ôtake (CM21021)
- 8 (a, b). *Balcis sagamiana* (YOKOYAMA). Holotype of *Eulima (Leiostraca) sagamiana* YOKOYAMA, 1920, p. V, figs. 8 (a, b). Loc. Naganuma (CM21240)
- 9 (a, b). *Balcis glabroides* (YOKOYAMA). Lectotype of *Eulima (Leiostraca) glabroides* YOKOYAMA, 1922, pl. IV, fig. 23. Loc. Shitô (CM21024)
- 10 (a, b). *Balcis yokosukensis* (YOKOYAMA). Holotype of *Eulima (Leiostraca) yokosukensis* YOKOYAMA, 1920, pl. V, figs. 7 (a, b). Loc. Yokosuka (CM21239)
- 11 (a, b). *Balcis krishna* (YOKOYAMA). Holotype of *Eulima (Leiostraca) krishna* YOKOYAMA, 1922, pl. IV, fig. 24. Loc. Shitô (CM21026)
- 12 (a, b). *Balcis shibana* (YOKOYAMA). Lectotype of *Eulima (Leiostraca) shibana* YOKOYAMA, 1927, pl. XLVII, fig. 8. Loc. Kuruma-chô (CM23802)
- 13 (a, b). *Constantia picturata* (YOKOYAMA). Lectotype of *Scalaria picturata* YOKOYAMA, 1922, pl. IV, fig. 20. Loc. Shitô (CM20117)
- 14 (a, b). *Aclis* (?) *angulifera* (YOKOYAMA). Lectotype of *Turbonilla (Careliopsis) angulifera* YOKOYAMA, 1922, pl. V, fig. 16. Loc. Shitô (CM21093)
- 15 (a, b). *Turbonilla (Ptycheulimella) ? misella* YOKOYAMA, lectotype, YOKOYAMA, 1922, pl. IV, fig. 36. Loc. Ôtake (CM20174)
- 16 (a, b). *Eulima uncinata* YOKOYAMA. Lectotype of *Eulima (Leiostraca) uncinata* YOKOYAMA, 1922, pl. IV, fig. 21. Loc. Ôtake (CM21018)
- 17 (a, b). *Epitonium (Depressiscala) auritum* (SOWERBY (G.B. II)). *Scalaria aurita* SOWERBY : YOKOYAMA, 1922, pl. IV, fig. 13. Loc. Ôtake (CM21002)
- 18 (a, b). *Epitonium (Cinctiscala) yamakawai* (YOKOYAMA). Lectotype of *Scalaria yamakawai* YOKOYAMA, 1922, pl. IV, fig. 17. Loc. Ôtake (CM21013)
- 19 (a, b). *Epitonium (Mazescala) subfrondiculum* (YOKOYAMA). Holotype of *Scalaria subfrondicula* YOKOYAMA, 1922, pl. IV, fig. 19. Loc. Shitô (CM21016)
- 20 (a, b). *Epitonium (Cinctiscala) kazusense* (YOKOYAMA). Lectotype of *Scalaria kazusensis* YOKOYAMA, 1922, pl. IV, fig. 16. Loc. Shitô (CM21011)
- 21 (a, b). *Epitonium (Cinctiscala) sagamiense azumanum* (YOKOYAMA). Lectotype of *Scalaria azumana* YOKOYAMA, 1922, pl. IV, fig. 15. Loc. Shitô (CM21007)
- 22 (a, b). *Epitonium (Glabriscala) stigmaticum* (PILSBRY). *Scalaria maculosa* ADAMS sensu YOKOYAMA, 1922, IV, fig. 14. Loc. Ôtake (CM21005)
- 23 (a, b). *Epitonium (Papyriscala) yokoyamai* SUZUKI & ICHIMURA, lectotype. *Scala lyra* SOWERBY sensu YOKOYAMA, 1927, pl. XLVII, fig. 2. Loc. Kuruma-chô (CM23796)
- 24 (a, b). *Epitonium (Mazescala) sp. Scala pulcherrima* (SOWERBY) sensu YOKOYAMA, 1927, pl. XLVII, fig. 5. Loc. Ôji (CM23795)
- 25 (a, b). *Epitonium (Turbiniscala) replicatum* (SOWERBY (G.B. II)). *Scala replicata* (SOWERBY) : YOKOYAMA, 1927, pl. XLVII, fig. 1. Loc. Kuruma-chô (CM23797)
- 26 (a, b). *Nodiscala matajirô* KURODA, apolectotype. Lectotype of *Scala rissoinaeformis* YOKOYAMA, 1927, pl. XLVII, fig. 4. Loc. Ôji (CM23800)
- 27 (a, b). *Epitonium (Acutiscala) conjunctum* (YOKOYAMA). Lectotype of *Scalaria conjuncta* YOKOYAMA, 1927, pl. IV, fig. 18. Loc. Tega (CM20114)
28. *Cirsotrema turriculoides* (YOKOYAMA). Holotype of *Scalaria turriculoides* YOKOYAMA, 1920, pl. V, fig. 12. Loc. Koshiha (CM20237)
- 29 (a, b), 30. *Amaea densicostata* (YOKOYAMA). Lectotype (fig. 30) and paralectotype (fig. 29) of *Scalaria (Acrilla) densicostata* YOKOYAMA, 1920, pl. V, figs. 14 (a-c). Loc. Koshiha (CM20238 missing)
- 31 (a, b). *Amaea ojiensis* (YOKOYAMA). Lectotype of *Scala (Acrilla) ojiensis* YOKOYAMA, 1927, pl. XLVII, fig. 3. Loc. Ôji (CM23798 missing)



## Explanation of Plate 7

### Figure

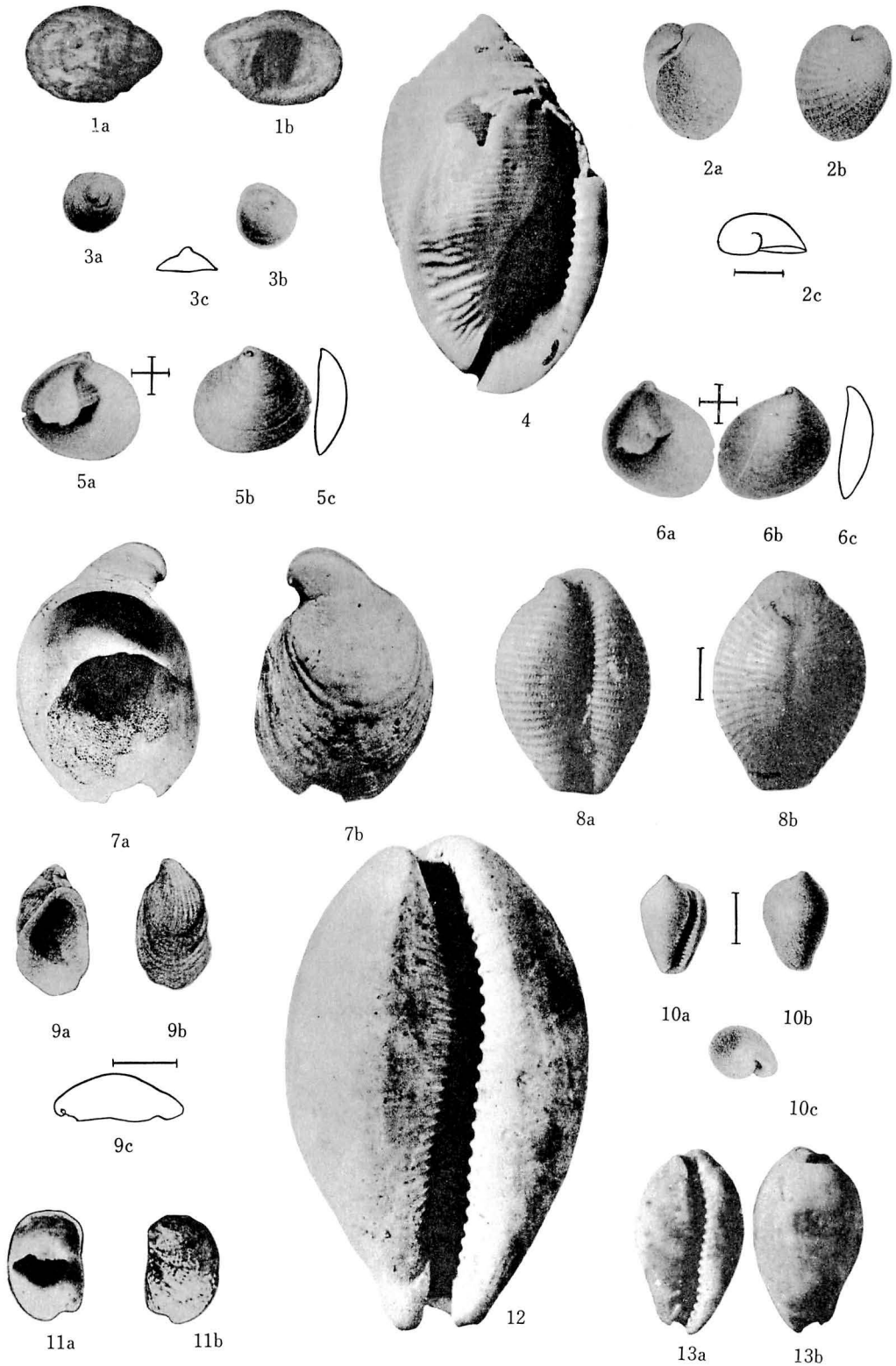
- 1 (a, b). *Neverita (Glossaulax) didyma* (RÖDING) var. *Polinices ampla* PHILIPPI sensu YOKOYAMA, 1920 (pars), pl. V, figs. 5 (a, b). Loc. Naganuma (CM20232)
- 2 (a, b). *Neverita (Glossaulax) reiniana* (DUNKER). *Polinices ampla* PHILIPPI sensu YOKOYAMA, 1920 (pars), pl. V, figs. 6 (a, b). Loc. Naganuma (CM20233 missing)
- 3 (a, b). *Viviparus (Cipangopaludina) japonicus* (v. MARTENS), young specimen. Holotype of *Basilissa? laeviuscula* YOKOYAMA, 1922, pl. V, fig. 4. Loc. Shitô (CM21121)
4. *Trichotropis (Trichosirius) planicostata* YOKOYAMA. Holotype of *Trichotropis planicostata* YOKOYAMA, 1920, pl. IV, fig. 6. Loc. Koshiha (CM20192)
- 5 (a, b). *Eunaticina papilla* (GMELIN). *Sigaretus (Eunaticina) papilla* GMELIN: YOKOYAMA, 1922, pl. V, fig. 8. Loc. Shitô (CM20995)
- 6 (a, b). *Trichotropis (Iphinoe) unicarinata* SOWERBY (G.B. II). *Trichotropis unicarinata* BRODERIP: YOKOYAMA, 1922, pl. XIII, fig. 11. Loc. Shitô (CM20962 missing)
- 7 (a, b). *Polinices sagamiensis* PILSBRY. *Polinices powisianus* RECLUZ sensu YOKOYAMA, 1922, pl. IV, fig. 12. Loc. Ôtake (CM20988)
- 8 (a, b). *Chamalycaeus melanopoma* (PILSBRY). Lectotype of *Cyclostrema lamellata* [-um] YOKOYAMA, 1927, pl. XLVIII, fig. 5. Loc. Ôji (CM23889)
- 9 (a, b). *Mammilla* sp.  $\alpha$ . *Sigaretus (Eunaticina) oblongus* REEVE sensu YOKOYAMA, 1922 (pars), pl. V, fig. 9. Loc. Shisui (CM21001)
- 10 (a, b). *Mammilla* sp.  $\beta$ . *Sigaretus (Eunaticina) oblongus* REEVE sensu YOKOYAMA, 1922 pl. IV, fig. 11. Loc. Shitô (CM21000)
- 11 (a, b). *Uberella yokoyamai* (KURODA & HABE), lectotype. *Polinices pallidus* BRODERIP & SOWERBY sensu YOKOYAMA, 1920, pl. IV, figs. 1 (a, b). Loc. Koshiha (CM20231 missing)
- 12 (a, b), 13. *Cryptonatica janthostomoides* (KURODA & HABE). *Natica janthostoma* DESHAYES sensu YOKOYAMA, 1920, pl. V, figs. 4 (a, b), 3. Loc. Koshiha (fig. 3) and Naganuma (fig. 4) (CM20218, CM20217)



## Explanation of Plate 8

### Figure

- 1 (a, b). *Nerita (Theliostyla) albicilla* LINNAEUS. *Nerita albicilla* LINNÉ: YOKOYAMA, 1924, pl. II, fig. 6. Loc. Numa (CM21878)
- 2 (a-c). *Velutina (Velutella) takatensis* (YOKOYAMA). Holotype of *Philine takatensis* YOKOYAMA, 1922, pl. V, figs. 4, 4a. Loc. Shitô (CM20762)
- 3 (a-c). *Calyptraea (Calyptraea) yokoyamai* KURODA. Lectotype of *Calyptraea mamilaris* BRODERIP sensu YOKOYAMA, 1920, pl. IV, figs. 5 (a-c). Loc. Kami-Miyata (CM20213)
4. *Phalium (Bezoardicella) variegatum* (PERRY). *Cassis strigata* GMELIN sensu YOKOYAMA, 1922, pl. III, fig. 9. Loc. Ôtake (CM20937)
- 5 (a-c), 6 (a-c). *Syphopatella walshi* (REEVE). Lectotype (fig. 6) and paralectotype (fig. 5) of *Crepidula orbella* YOKOYAMA, 1920, pl. IV, figs. 23 (a-c), 22 (a-c). Loc. Naganuma (CM20215 missing, CM20214)
- 7 (a, b). *Crepidula (Crepidula) grandis* MIDDENDORFF. *Crepidula grandis* MIDDENDORFF: YOKOYAMA, 1922, pl. IV, fig. 10. Loc. Shitô (CM20984)
- 8 (a, b). *Trivirostra edgari* (SHAW). *Cypraea (Trivia) oryza* LAMARCK sensu YOKOYAMA, 1927, pl. XLVI, fig. 22. Loc. Ôji (CM23741)
- 9 (a-c). *Capulus yokoyamai* OYAMA, apoholotype. *Capulus badius* DUNKER sensu YOKOYAMA, 1922, pl. IV, figs. 9, 9a. Loc. Kamenari (CM20982)
- 10 (a-c). *Proterato (Sulcerato) callosa* (ADAMS & REEVE). *Erato callosa* ADAMS & REEVE: YOKOYAMA, 1922, pl. III, figs. 11, 11a. Loc. Ôtake (CM20946)
- 11 (a, b). *Crepidula (Bostrycapulus) gravispinosa* KURODA & HABE. *Crepidula aculeata* GMELIN sensu YOKOYAMA, 1924, pl. I, figs. 12 (a, b). Loc. Numa (CM21871)
12. *Cypraea (Lyncina) vitellus vitellus* LINNAEUS. *Cypraea carneola* LINNÉ sensu YOKOYAMA, 1924, pl. I, fig. 11. Lectotype of *Lyncina carneola yokoyamai* SCHILDER (F.A.). Loc. Numa (CM21827)
- 13 (a, b). *Erronea (Palmadusta) gracilis japonica* SCHILDER (F.A.). *Cypraea candida* PEASE sensu YOKOYAMA, 1924, pl. II, fig. 1. Loc. Kôyatsu (CM21828)

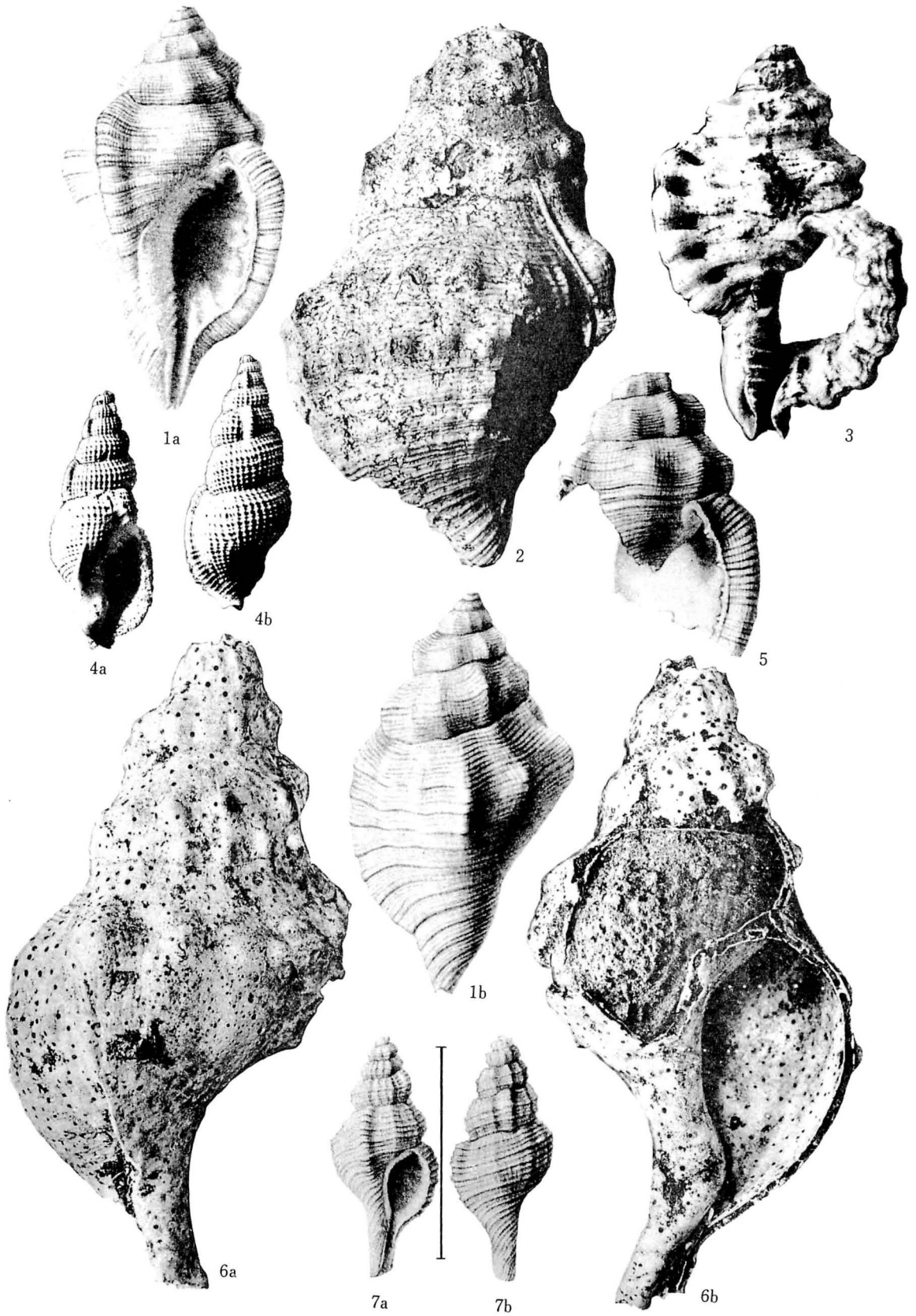


## Explanation of Plate 9

### Figure

- 1, 5. *Cymatium (Ranularia) subpyrum* (YOKOYAMA). Lectotype (fig. 1) and paralectotype (fig. 5) of *Triton subpyrum* YOKOYAMA, 1920, pl. IV, figs. 3 (a, b), 4. Locs. Ninomiya (fig. 1) and Naganuma (fig. 5) (CM20176, CM20177)
2. *Charonia sauliae* (REEVE). *Triton nodiferus* LAMARCK sensu YOKOYAMA, 1927, pl. XLVII, fig. 25. Loc. Shinagawa (CM23735)
3. *Cymatium (Monoplex) echo* KURODA & HABE. *Triton (Simpulum) costatus* (BORN) sensu YOKOYAMA, 1924, pl. I, fig. 16. Loc. Numa (CM21823)
4. *Colubraria castanea* KURODA & HABE. *Triton (Epidromus) obscurus* REEVE sensu YOKOYAMA, 1924, pl. I, fig. 9. Loc. Numa (CM21825)
5. see fig. 1
- 6 (a, b). *Charonia sauliae* (REEVE). *Siphonalia kelletii* FORBES sensu YOKOYAMA, 1922, pl. V, fig. 1. Loc. Shitô (CM20880)
- 7 (a, b). *Cymatium (Reticutriton) tenuiliratum* (LISCHKE). *Triton tenuiliratus* LISCHKE: YOKOYAMA, 1922, pl. III, fig. 8. Loc. Shitô (CM20934)





## Explanation of Plate 10

### Figure

1. *Tonna luteostoma* (KÜSTER). *Dolium luteostomum* KÜSTER : YOKOYAMA, 1922, pl. III, fig. 10. Loc. Tega (CM20940)
- 2 (a, b), 3. *Ranella (Fusitriton) galea* KURADA & HABE. *Triton (Priene) oregonensis* REDFIELD sensu YOKOYAMA, 1920, pl. III, figs. 20 (a, b), 19. Loc. Koshiha (CM20172, CM20171)
- 4 (a, b). *Canarium (Doxander) japonicum* (REEVE). *Strombus japonicus* REEVE : YOKOYAMA, 1922, pl. III, fig. 12. Loc. Ôtake (CM20948)
5. *Tonna luteostoma* (KÜSTER). *Dolium luteostomum* KÜSTER : YOKOYAMA, 1920, pl. IV, fig. 2 (a). Loc. Motowada (CM20179)
- 6 (a, b). *Rapana venosa* (VALENCIENNES). *Rapana bezoar* LINNÉ var. *thomasiana* CROSSE : YOKOYAMA, 1922, pl. III, fig. 6. Loc. Ôtake (CM20928)
- 7 (a, b). *Leptoconchus striatus* (RÜPPELL). *Leptoconchus rostratus* A. ADAMS sensu YOKOYAMA, 1924, pl. I, fig. 5. Loc. Numa (CM21822)



1



2a



2b



3



4a

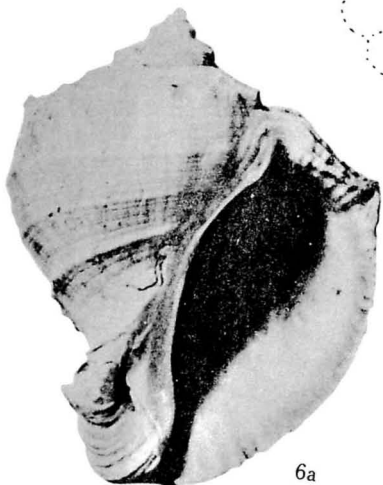


2-a

5



4b



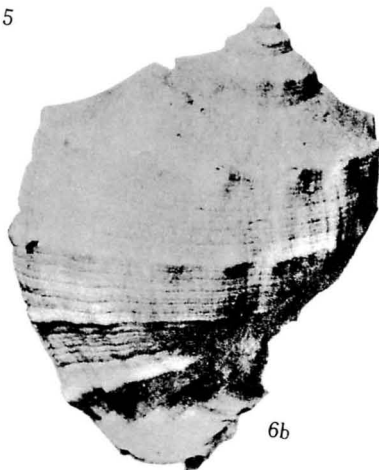
6a



7a



7b

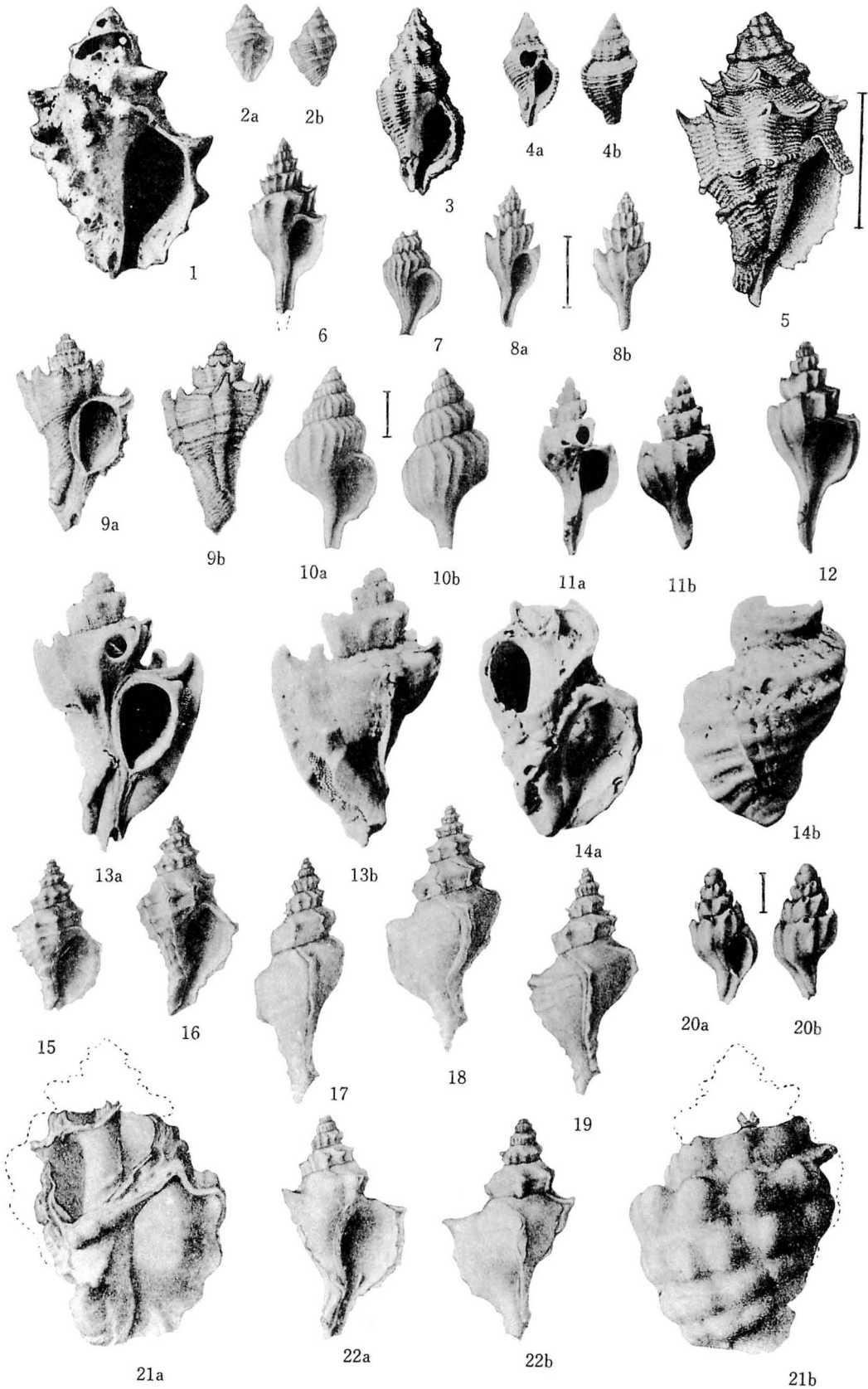


6b

## Explanation of Plate 11

### Figure

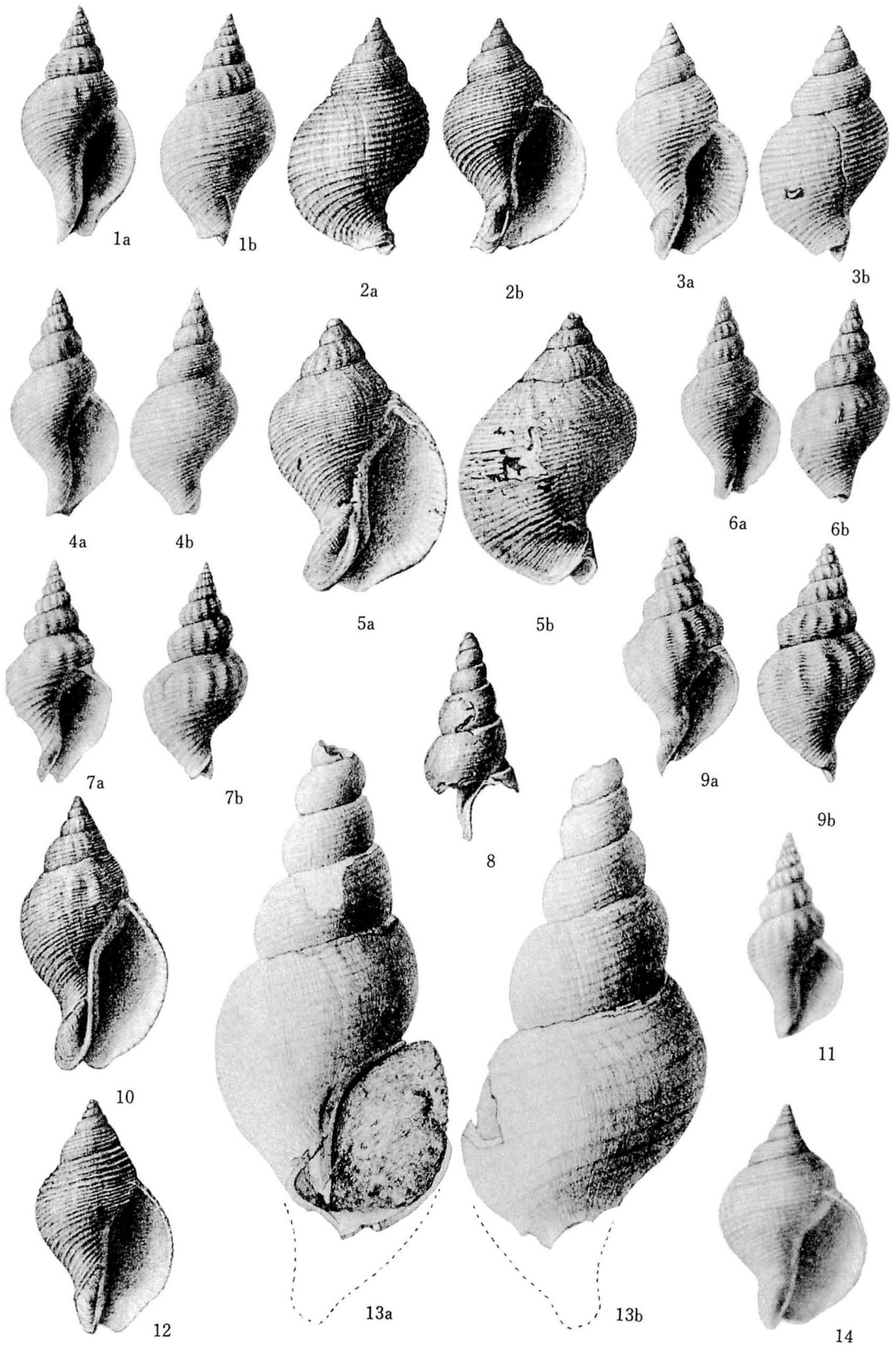
1. *Mancinella siro* (KURODA). *Purpura (Thalessa) bitubercularis* LAMARCK sensu YOKOYAMA, 1924, pl. I, fig. 4. Loc. Numa (CM21818)
- 2 (a, b). *Thais (Reishia) clavigera* (KÜSTER). *Purpura alveolata* REEVE sensu YOKOYAMA, 1920, pl. III, figs. 16 (a, b). Loc. Naganuma (CM20170)
3. *Ergalatax contractus* (REEVE). *Ocenebra contracta* (REEVE) : YOKOYAMA, 1924, pl. I, fig. 2. Loc. Numa (CM21816 missing)
- 4 (a, b). *Bedequina birileffi* (LISCHKE). *Trophon pachyrhaphé* SMITH sensu YOKOYAMA, 1922, pl. III, fig. 1. Loc. Tega (CM20917)
5. *Drupa (Morula) spinosa* (ADAMS (H.) & ADAMS (A.)). *Purpura (Cuma) rugosa* (BORN) sensu YOKOYAMA, 1924, pl. I, fig. 10. Loc. Numa (CM21820)
- 6, 8 (a, b), 12. *Trophon (Boreotrophon) candelabrum* (REEVE). Lectotype (fig. 8) and paralectotypes (figs. 6, 12) of *Trophon subclavatus* YOKOYAMA, 1920, pl. VI, figs. 2 (a, b), pl. VI, fig. 14. Loc. Shimo-Miyata (CM20157, CM20156, CM20157)
- 7, 10 (a, b). *Trophon (Boreotrophon) xestra nipponicus* YOKOYAMA. Lectotype (fig. 7) and paralectotype (fig. 10) of *Trophon nipponicus* YOKOYAMA, 1920, pl. III, figs. 14, 13 (a, b). Locs. Teramae (fig. 7) and Koshiba (fig. 10) (CM20159, CM20158)
8. see fig. 6.
- 9 (a, b). *Ceratostoma (Ocenebra) aduncum* (SOWERBY (G.B. I)). Lectotype of *Ocenebra spectata* YOKOYAMA, 1922, pl. III, fig. 5. Loc. Shitô (CM20926)
10. see fig. 7
- 11 (a, b). *Trophon (Boreotrophon) candelabrum* (REEVE). *Trophon subclavatus* YOKOYAMA : YOKOYAMA, 1922, pl. III, fig. 2. Loc. Shitô (CM20918)
12. see fig. 6
- 13 (a, b). *Ceratostoma (Ocenebra) aduncum* (SOWERBY (G.B. I)). *Ocenebra falcata* SOWERBY sensu YOKOYAMA, 1922, pl. III, fig. 4. Loc. Shitô (CM20923)
- 14 (a, b). *Nucella heyseana* (CUNKER). *Purpura heyseana* DUNKER : YOKOYAMA, 1922, pl. III, fig. 7. Loc. Shitô (CM20932)
- 15-19, 22 (a, b). *Trophon (Nipponotrophon) echinus* (DALL). *Trophon inermis* SOWERBY sensu YOKOYAMA, 1920, pl. III, figs. 25, 21, 24, 26, 23, 22 (a, b). Loc. Koshiba (fig. 16 CM20163, other specimens missing)
- 20 (a, b). *Siphonochelus japonicus* (ADAMS (A.)). *Typhis arcuatus* HINDS sensu YOKOYAMA, 1922, pl. III, fig. 3. Loc. Shitô (CM20921)
- 21 (a, b). *Thais (Reishia) bronni* (DUNKER). *Purpura luteostoma* CHEMNITZ sensu YOKOYAMA, 1920, pl. III, figs. 27 (a, b). Loc. Ôtsu (CM20168)
22. see fig. 15



## Explanation of Plate 12

### Figure

- 1 (a, b). *Siphonalia trochulus tokaiensis* KIRA. *Siphonalia stearnsii* PILSBRY sensu YOKOYAMA, 1920 (pars), pl. III, figs. 4 (a, b). Loc. Naganuma (CM20133)
- 2 (a, b), 10, 12. *Siphonalia fusoides* (REEVE). *Siphonalia trochulus* (REEVE) sensu YOKOYAMA, 1922 (pars), pl. II, figs. 18, 16, 15. Locs. Ôtake (fig. 2) and Shitô (figs. 10, 12) (CM20874 missing, CM20872, CM20871)
- 3 (a, b). *Siphonalia fusoides* (REEVE). *Siphonalia stearnsii* PILSBRY sensu YOKOYAMA, 1920 (pars), pl. III, figs. 3 (a, b). Loc. Naganuma (CM20132)
- 4 (a, b), 6 (a, b). *Siphonalia spadicea* (REEVE) : YOKOYAMA, 1920 (pars), pl. III, figs. 9 (a, b), 10 (a, b). Locs. Shimo-Miyata (fig. 4) and Ôtsu (fig. 6) (CM20124, CM20125)
- 5 (a, b). *Siphonalia cassidariaeformis* (REEVE). *Siphonalia trochulus* (REEVE) sensu YOKOYAMA, 1922 (pars), pl. II, fig. 17. Loc. Shitô (CM20873)
6. see fig. 4
- 7 (a, b). *Siphonalia mikado* MELVILL. *Siphonalia spadicea* (REEVE) sensu YOKOYAMA, 1920 (pars), pl. III, figs. 8 (a, b). Loc. Shimo-Miyata (CM20123)
8. *Beringius (Japelion) adelphicus* (DALL). *Chrysodomus schrencki* YOKOYAMA : YOKOYAMA, 1922, pl. II, fig. 13. Loc. Shitô (CM20866)
- 9 (a, b). *Siphonalia modificata* (REEVE). *Siphonalia spadicea* (REEVE) sensu YOKOYAMA, 1920 (pars), pl. III, figs. 11 (a, b). Loc. Motowada (CM20126)
10. see fig. 2.
11. *Siphonalia spadicea* (REEVE). *Siphonalia fuscolineata* PEASE : YOKOYAMA, 1920, 1920, pl. II, fig. 15. Loc. Naganuma (CM20131)
12. see fig. 2.
- 13 (a, b). *Beringius (Japelion) adelphicus* (DALL). Lectotype of *Chrysodomus schrencki* YOKOYAMA, 1920, pl. III, figs. 1 (a, b). Loc. Koshiba (CM20116)
14. *Siphonalia fusoides* (REEVE). *Siphonalia trochulus* (REEVE) sensu YOKOYAMA, 1920, pl. II, fig. 14. Loc. Naganuma (CM20130)

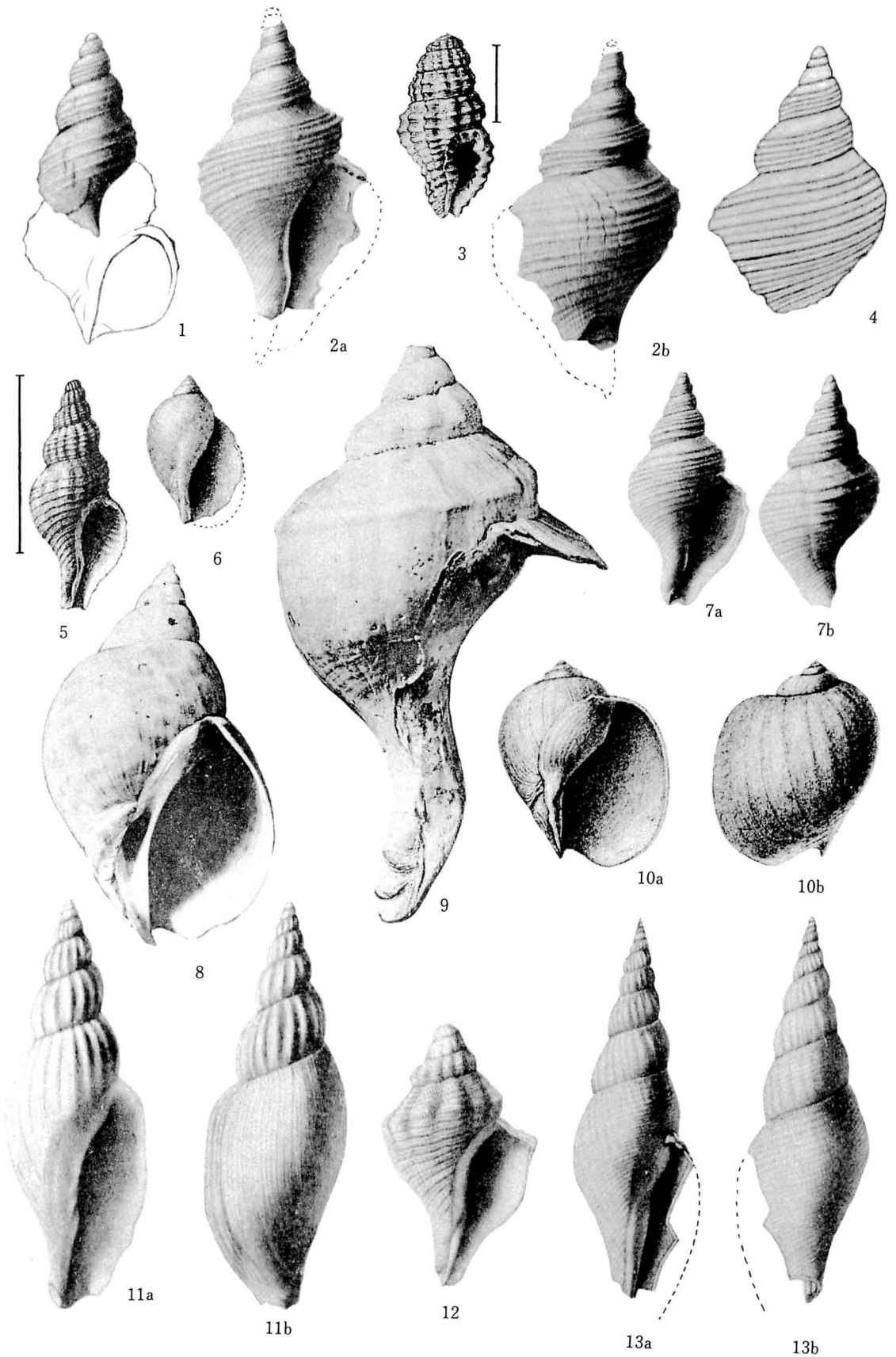


### Explanation of Plate 13

#### Figure

1. *Buccinum leucostoma* LISCHKE: YOKOYAMA, 1920, pl. II, fig. 11. Loc. Nojima (CM20134)
- 2 (a, b), 4, 7 (a, b). *Neptunea* (*Neptunea*) *yokoyamai* OYAMA, holotype (fig. 7) and paratype (figs. 2, 4) of *Chrysodomus phoeniceus* [-a] DALL sensu YOKOYAMA, 1920, pl. II, figs. 10 (a, b), 8, 9 (a, b). Loc. Koshiha (CM20113, CM20111, CM20112)
3. *Enzinopsis menkeana* (DUNKER). *Engina acuminata* (REEVE) sensu YOKOYAMA, 1924, pl. I, fig. 3. Loc. Numa (CM21815)
4. see fig. 2.
5. *Searlesia fuscolabiata* (SMITH (E.A.)). *Fusus coreanicus* SMITH sensu YOKOYAMA, 1922, pl. II, fig. 10. Loc. Shitô (CM20853)
6. *Volutharpa perryi* (JAY): YOKOYAMA, 1920, pl. III, fig. 12. Loc. Shimo-Miyata (CM20881 missing)
7. see fig. 2.
8. *Babylonia japonica* (REEVE). *Eburna japonica* REEVE: YOKOYAMA, 1922, pl. II, fig. 20. Loc. Ôtake (CM20885)
9. *Neptunea* (*Barbitonia*) *arthritica* (BERNARDI). *Chrysodomus arthriticus* [-a] (VALENCIENNES) BERNARDI: YOKOYAMA, 1922, pl. II, fig. 12. Loc. Ôtake (CM20122)
10. *Volutharpa perryi* (JAY): YOKOYAMA, 1922, pl. II, fig. 12. Loc. Shitô (CM20136)
11. *Fulgoraria* (*Psephaea*) *kamakurensis* OTUKA, holotype. *Voluta megaspira* SOWERBY sensu YOKOYAMA, 1920, pl. II, figs. 18 (a, b). Loc. Koshiha (CM20092)
12. *Neptunea* (*Barbitonia*) *arthritica* (BERNARDI). *Siphonalia dilatata* (QUOY [& GAIMARD]) sensu YOKOYAMA, 1920, pl. II, fig. 12. Loc. Shimo-Miyata (CM20859)
- 13 (a, b). *Benthovoluta hilgendorfi* (v. MARTENS). Lectotype of *Mitra plicifera* YOKOYAMA, 1920, pl. II, figs. 16 (a, b). Loc. Koshiha (CM20103)

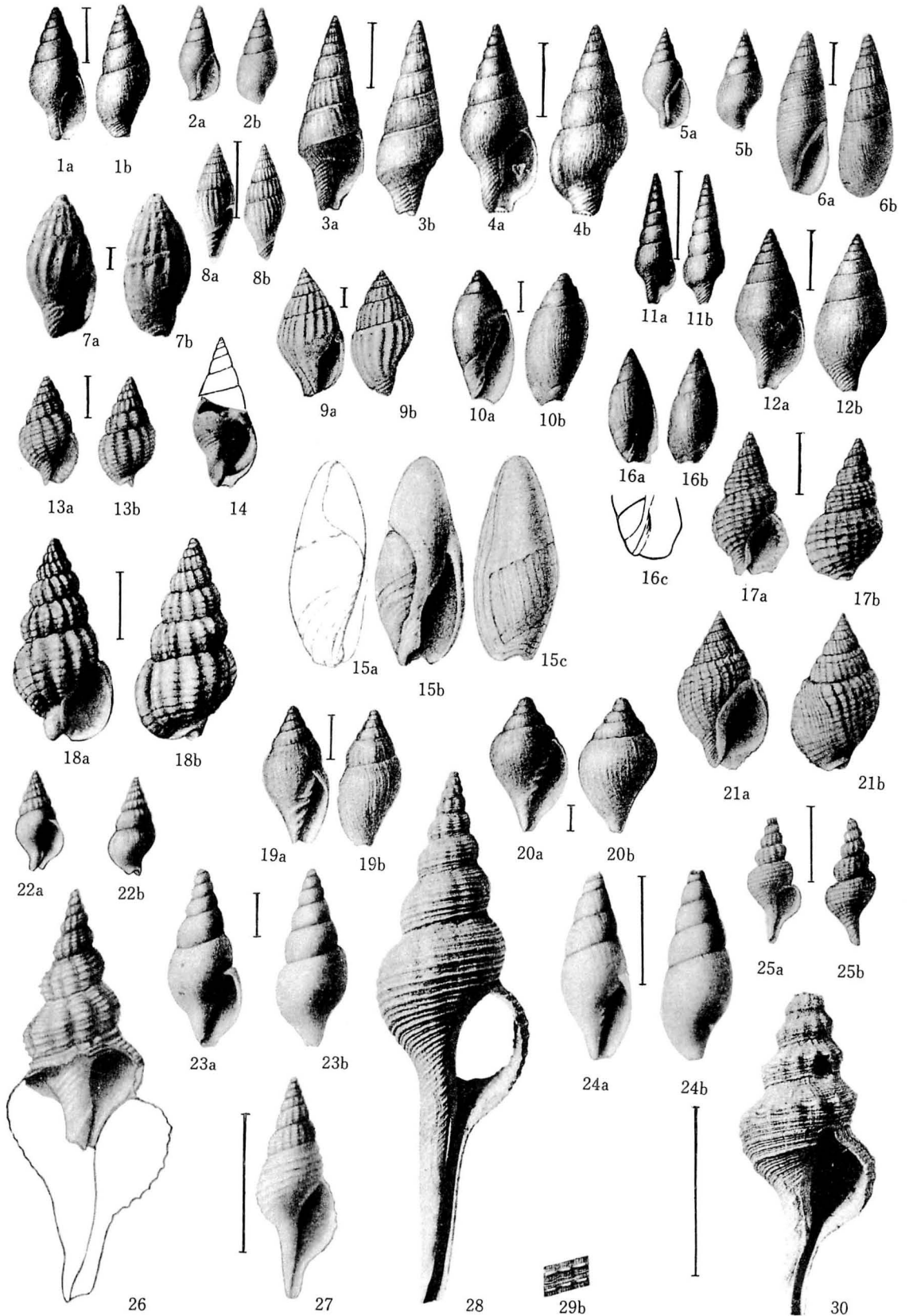




## Explanation of Plate 14

### Figure

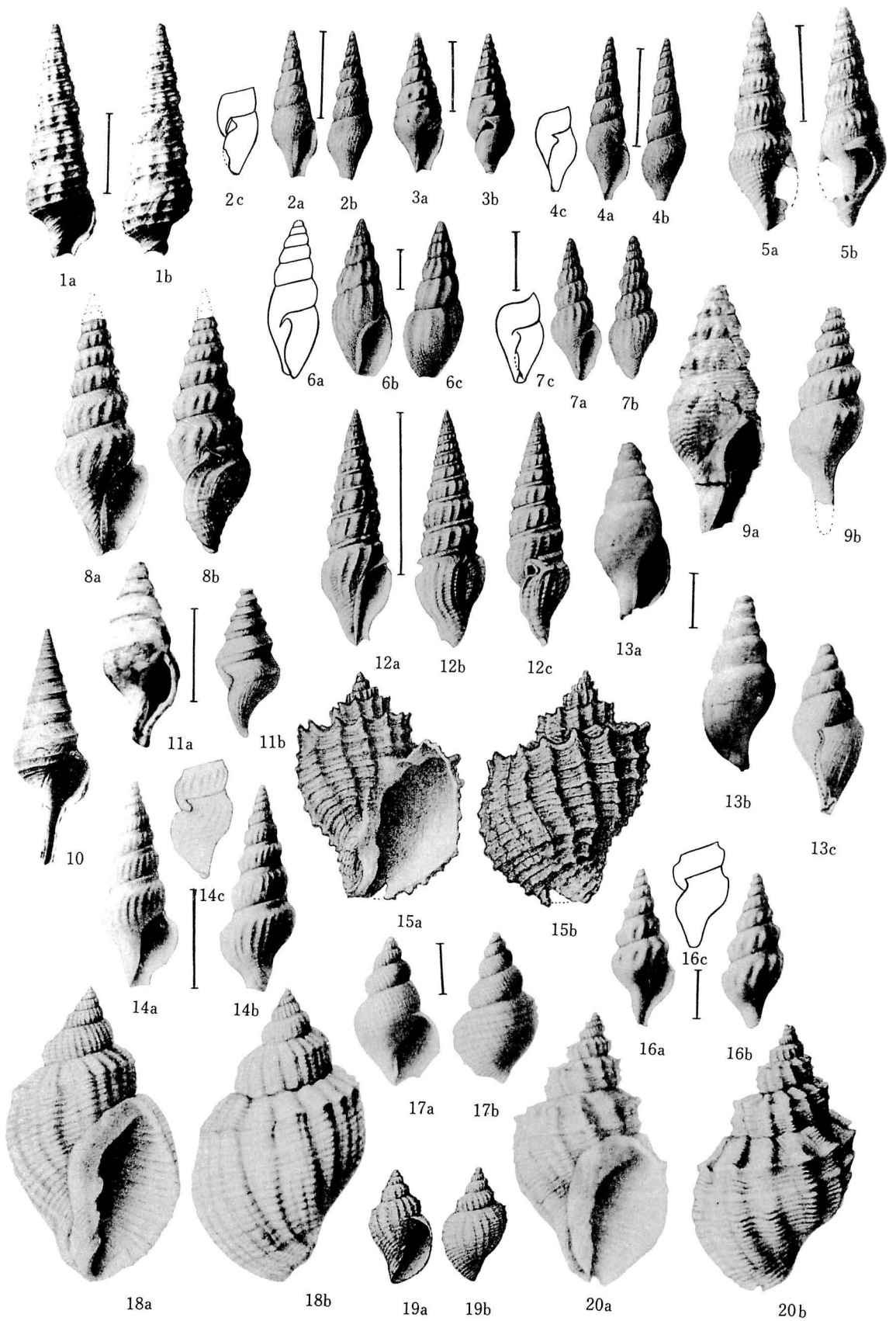
- 1 (a, b). *Mitrella* (*Mitrella*) *bicincta* (GOULD). *Columbella* (*Mitrella*) *dunkeri* TRYON: YOKOYAMA, 1922, pl. II, fig. 26. Loc. Shitô (CM20911)
- 2 (a, b). *Mitrella* (*Mitrella*) *bicincta* (GOULD). *Columbella* (*Mitrella*) *dunkeri* TRYON: YOKOYAMA, 1920, pl. III, figs. 15 (a, b). Loc. Yokosuka (CM20148)
- 3 (a, b). *Mitrella* (*Indomitrella*) *yabei* NOMURA. Lectotype of *Columbella* (*Atilia*) *smithi* YOKOYAMA, 1922, pl. II, fig. 14. Loc. Ôtake (CM20899)
- 4 (a, b). *Mitrella* (*Indomitrella*) *lischkei* (SMITH (E.A.)). Lectotype of *Columbella* (*Atilia*) *praecursor* YOKOYAMA, 1922, pl. II, fig. 25. Loc. Shitô (CM20903)
- 5 (a, b). *Mitrella* (*Mitrella*) *burchardi* (DUNKER). *Columbella* (*Atilia*) *burchardi* DUNKER: YOKOYAMA, 1920, pl. III, figs. 7 (a, b). Loc. Yokosuka (CM20153)
- 6 (a, b). *Aesopus japonicus* GOULD. Lectotype of *Parviterebra raritans* YOKOYAMA, 1922, pl. I, fig. 25. Loc. Ôtake (CM20789)
- 7 (a, b). *Zafra pumila* (DUNKER). *Columbella* (*Atilia*) *pumila* DUNKER: YOKOYAMA, 1927, pl. XLVI, fig. 10. Loc. Tabata (CM23726)
- 8 (a, b). *Pusia emmae* (YOKOYAMA). Holotype of *Mitra* (*Costellaria*) *emmae* YOKOYAMA, 1920, pl. VI, figs. 4 (a, b). Loc. Shimo-Miyata (CM20107)
- 9 (a, b). *Zafra sinensis* (SOWERBY (G.B. III)). Holotype of *Columbella* (*Anachis*) *awana* YOKOYAMA, 1924, pl. I, fig. 1. Loc. Numa (CM21814)
- 10 (a, b). *Olivella spretoides* YOKOYAMA: lectotype, YOKOYAMA, 1922, pl. II, fig. 4. Loc. Shitô (CM20838)
- 11 (a, b). *Mitrella* (*Indomitrella*) *turriculata* (YOKOYAMA). Holotype of *Columbella* (*Atilia*) *turriculata* YOKOYAMA, 1922, pl. II, fig. 22. Loc. Ôtake (CM20902)
- 12 (a, b). *Mitrella* (*Mitrella*) *bicincta* (GOULD). Lectotype of *Columbella* (*Atilia*) *masakadoi* YOKOYAMA, 1922, pl. II, fig. 23. Loc. Ôtake (CM20907)
- 13 (a, b). *Tritia* (*Tritonella*) sp. *Nassa* (*Hima*) *festiva* POWYS sensu YOKOYAMA, 1920, pl. III, figs. 6 (a, b). Loc. Kami-Miyata (CM20139)
14. *Pisania* (*Japeuthria*) *ferrea* (REEVE). *Euthria ferrea* (REEVE): YOKOYAMA, 1924, pl. V, fig. 17. Loc. Numa (CM21809)
- 15 (a-c). *Ancilla* (*Baryspira*) *hinomotoensis* YOKOYAMA. Lectotype of *Ancilla hinomotoensis* YOKOYAMA, 1922, pl. II, figs. 5, 5a. Loc. Shitô (CM20840)
- 16 (a-c). *Olivella japonica* (STEARNS) PILSBRY. *Olivella fortunei* ADAMS sensu YOKOYAMA, 1922, pl. II, figs. 3, 3a. Loc. Shisui (CM20831)
- 17 (a, b). *Tritia* (*Reticunassa*) *japonica* (ADAMS A.) var. *Nassa* (*Hima*) *japonica* A. ADAMS: YOKOYAMA, 1920, pl. III, figs. 5 (a, b). Loc. Yokosuka (CM20137)
- 18 (a, b). *Tritia* (*Tritonella*) *fuscolineata* (SMITH (E.A.)). *Nassa* (*Hima*) *fraterculus* DUNKER sensu YOKOYAMA 1922, pl. II, fig. 21. Loc. Ôtake (CM20897)
- 19 (a, b). *Microvoluta hondana* (YOKOYAMA). Lectotype of *Mitra hondana* YOKOYAMA, 1922, pl. II, fig. 8. Loc. Shitô (CM20846)
- 20 (a, b). *Microvoluta hondana* (YOKOYAMA). Holotype of *Mitra pirula* YOKOYAMA, 1922, pl. II, fig. 9. Loc. Shitô (CM20848)
- 21 (a, b). *Nassarius* (*Zeuxis*) *caelatus* (ADAMS (A.)). *Nassa* (*Niotha*) *livescens* PHILIPPI sensu YOKOYAMA, 1920, pl. III, figs. 18 (a, b). (Loc. Shimo-Miyata (CM20141)
- 22 (a, b). *Hindsia* (*Microfusus*) *obesiformis* (YOKOYAMA). Lectotype of *Sipho obesiformis* YOKOYAMA, 1922, pl. II, figs. 13 (a, b). Loc. Naganuma (CM20120)
- 23 (a, b). *Mitra* (*Vicimitra*) *cosibensis* OTUKA, apoholotype. *Mitra ebenus* LAMARCK sensu YOKOYAMA, 1920, pl. II, figs. 4 (a, b). Loc. Koshiba (CM20100)
- 24 (a, b). *Mitra* (*Vicimitra*) *kurakiensis* HATAI & NISHIYAMA, apoholotype. *Mitra fusiformis* BROCCHI sensu YOKOYAMA, 1920, pl. II, figs. 6 (a, b). Loc. Koshiba (CM20101)
- 25 (a, b). *Fusinus* (*Trophonofusus*) *muricatoides* (YOKOYAMA). Holotype of *Trophon muricatoides* YOKOYAMA, pl. III, figs. 17 (a, b). Loc. Kami-Miyata (CM20162)
26. *Fusinus perplexus* (ADAMS (A.)). *Fusus perplexus* A. ADAMS: YOKOYAMA, 1920, pl. II, fig. 17. Loc. Naganuma (CM20109)
27. *Granulifusus mahiyamai* (OTUKA), apolectotype. *Fusus niponicus* SMITH sensu YOKOYAMA, 1920, pl. II, fig. 7. Loc. Shimo-Miyata (CM20107)
28. *Fusinus perplexus* (ADAMS (A.)). *Fusus nodosoplicatus* DUNKER sensu YOKOYAMA, 1927, pl. XLVI, fig. 14. Loc. Shinagawa (CM23683)
- 29 (a, b). *Granulifusus musasiensis* (MAKIYAMA). *Fusus niponicus* SMITH sensu YOKOYAMA, 1922, pl. II, figs. 11, 11a. Loc. Shitô (CM20857)
30. *Fusinus nigrirostratus* (SMITH (E. A.)). *Fusus nigrirostratus* SMITH: YOKOYAMA, 1927, pl. XLVI, fig. 21. Loc. Shinagawa (CM23685)



## Explanation of Plate 15

### Figure

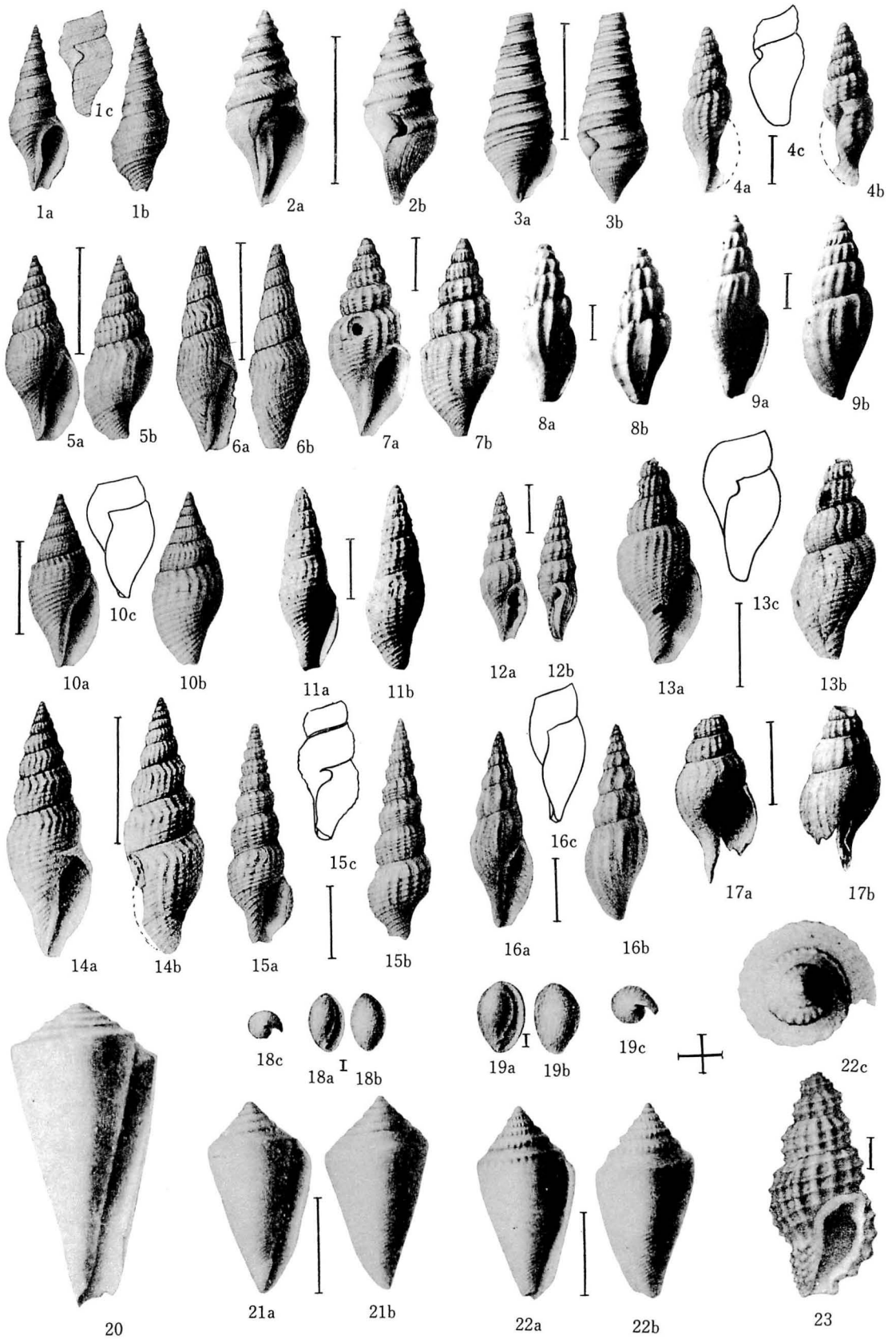
- 1 (a, b). *Pseudoetrema fortilirata* (SMITH (E. A.)). *Drillia fortilirata* SMITH: YOKOYAMA, 1927, pl. XLVI, fig. 20. Loc. Ôji (CM23655 missing)
- 2 (a-c). *Elaeocyma (Elaeocyma) glabriuscula* (YOKOYAMA) (forma *brevis* YOKOYAMA). Holotype of *Drillia glabriuscula* var. *brevis* YOKOYAMA, 1922, pl. I, figs. 32, 32a. Loc. Shitô (CM20803)
- 3 (a, b). *Elaeocyma (Elaeocyma) benten* (YOKOYAMA). Lectotype of *Pleurotoma (Drillia) benten* YOKOYAMA, 1920, pl. I, figs. 23 (a, b). Loc. Naganuma (CM2007)
- 4 (a-c). *Elaeocyma (Elaeocyma) glabriuscula* (YOKOYAMA). Lectotype of *Drillia glabriuscula* YOKOYAMA, 1920, pl. I, figs. 31, 31a. Loc. Shitô (CM20801)
- 5 (a, b). *Paradrillia nivalioides* (YOKOYAMA). Lectotype of *Pleurotoma (Drillia) nivalioides* YOKOYAMA, 1920, pl. I, figs. 27 (a, b). Loc. Koshiha (CM20075)
- 6 (a-c). *Haedropleura fukuchiana* (YOKOYAMA). Lectotype of *Mangilia fukuchiana* YOKOYAMA, 1922, pl. I, figs. 34, 34a. Loc. Ôtake (CM20809)
- 7 (a-c). *Horai clavus shitoensis* OYAMA, holotype. *Mangilia ojiensis* TOKUNAGA sensu YOKOYAMA, 1922, pl. I, figs. 33, 33a. Loc. Shitô (CM20807)
- 8 (a, b). *Inquisitor jeffreysii* (SMITH (E. A.)). *Pleurotoma (Drillia) principalis* PILSBRY: YOKOYAMA, 1920, pl. I, figs. 20 (a, b). Loc. Naganuma (CM20067)
- 9 (a, b). “*Comitas*” *yokoyamai* (OYAMA), apoholotype. *Pleurotoma kamakurana* PILSBRY sensu YOKOYAMA, 1920, pl. I, figs. 17 (a, b). Loc. Koshiha (CM20062)
10. *Lophiotoma (Lophioturris) leucotropis* (ADAMS & REEVE). *Pleurotoma oxytropis* SOWERBY sensu YOKOYAMA, 1927, pl. XLVI, fig. 7. Loc. Shinagawa (CM23643)
- 11 (a, b). *Aforia nojimensis* (YOKOYAMA). Holotype of *Pelurotoma (Surcula?) nojimensis* YOKOYAMA, 1920, pl. I, figs. 19 (a, b). Loc. Nojima (CM20085)
- 12 (a-c). *Crassispira pseudoprincipalis* (YOKOYAMA). Lectotype of *Pleurotoma (Drillia) pseudo-principalis* YOKOYAMA, 1920, pl. I, figs. 21 (a-c). Loc. Naganuma (CM20070)
- 13 (a-c). *Belaterricula glabra* (YOKOYAMA). Holotype of *Pleurotoma (Bela?) glabra* YOKOYAMA, 1920, pl. II, figs. 1 (a-c). Loc. Koshiha (CM20086)
- 14 (a-c). *Inquisitor cosibensis* (YOKOYAMA). Lectotype of *Pleurotoma (Drillia) cosibensis* YOKOYAMA, 1920, pl. I, figs. 26 (a-c). Loc. Koshiha (CM20074 missing)
- 15 (a, b). *Cancellaria (Habesolatia) nodulifera* SOWERBY (G.B. I): YOKOYAMA, 1922, pl. I, fig. 1. Loc. Shitô (CM20822)
- 16 (a-c). *Elaeocyma (Splendrillia) braunsi* (YOKOYAMA). Lectotype of *Pleurotoma (Drillia) braunsi* YOKOYAMA, 1920, pl. I, figs. 25 (a-c). Loc. Koshiha (CM20078).
- 17 (a, b). *Admete cancellata* (OTUKA), apoholotype. *Admete viridula* FABRICIUS sensu YOKOYAMA, 1920, pl. II, fig. 5. Loc. Koshiha (CM20091)
- 18 (a, b), 20 (a, b). *Cancellaria (Sydaphera) spengleriana* DESHAYES. *Cancellaria spengleriana* DESHAYES: YOKOYAMA, 1920, pl. II, figs. 2 (a, b), 3 (a, b). Locs. Ôtsu (fig. 18) and Naganuma (fig. 20) (CM20087, CM20088)
- 19 (a, b). *Cancellaria (Sydaphera) spengleriana* DESHAYES. *Cancellaria asprella* LAMARCK var. *reeveana* CROSSE sensu YOKOYAMA, 1922, pl. II, fig. 2. Loc. Ôtake (CM20827)
20. see fig. 18.



## Explanation of Plate 16

### Figure

- 1 (a-c). *Suavodrillia declivis* (v. MARTENS). *Pleurotoma vertebrata* SMITH sensu YOKOYAMA, 1922, pl. I, figs. 26, 26a. Loc. Shitô (CM20790)
- 2 (a, b). *Riuguhdrillia* [*engonia* subsp.?] *mediocarinata* (YOKOYAMA). Holotype of *Pleurotoma* (*Genota*) *mediocarinata* YOKOYAMA, 1920, pl. I, figs. 18 (a, b). Loc. Nojima (CM20066)
- 3 (a, b). *Tomopleura quantoana* (YOKOYAMA). Lectotype of *Pleurotoma* (*Drillia*) *quantoana* YOKOYAMA, 1920, pl. I, figs. 22 (a, b). Loc. Naganuma (CM20073 missing)
- 4 (a-c). *Lyromangelia semicarinata* (PILSBRY). *Pleurotoma* (*Mangilia*) *deshayesii* DUNKER sensu YOKOYAMA, 1920, pl. I, figs. 24 (a-c). Loc. Koshiha (CM20081)
- 5 (a, b). *Ophiidermella pseudopannus* (YOKOYAMA). Holotype of *Genotia pseudopannus* YOKOYAMA, 1922, pl. I, fig. 27. Loc. Ôtake (CM20794)
- 6 (a, b). *Ophiidermella miyatensis* (YOKOYAMA). Holotype of *Genotia pseudopannus* var. *sematensis* YOKOYAMA, 1922, pl. I, fig. 28. Loc. Shitô (CM20795)
- 7 (a, b). *Propebela yokoyamai* (ONOYAMA), apolectotype. *Bela rugulata* var. *schneideri* HARMER sensu YOKOYAMA, 1922, pl. I, fig. 37. Loc. Ôtake (CM20813 missing)
- 8 (a, b). *Mangilia* (*Guraleus*) *tabatensis* (TOKUNAGA): YOKOYAMA, 1927, pl. XLVI, fig. 11. Loc. Dôkanyama (CM23670)
- 9 (a, b). *Mangilia* (*Guraleus*) *tokunagae* FINLAY, apolectotype. *Mangilia parva* YOKOYAMA, 1927, pl. XLVI, fig. 12. Loc. Ôji (CM23672 missing)
- 10 (a-c). *Ophiidermella ogurana* (YOKOYAMA). Holotype of *Genotia ogurana* YOKOYAMA, 1922, pl. I, figs. 29, 29a. Loc. Ôtake (CM20796)
- 11 (a, b). *Paraclathurella gracilenta* (REEVE). *Mangilia gracilenta* (REEVE): YOKOYAMA, 1927, pl. 13. Loc. Ôji (CM23674 missing)
- 12 (a, b). *Ithycythara oywana* (YOKOYAMA). Holotype of *Mangilia* (*Cythara*) *oywana* YOKOYAMA, 1922, pl. I, fig. 36. Loc. Shisui (CM20812)
- 13 (a-c). *Asperdaphne reticostulata* (YOKOYAMA). Holotype of *Bela reticostulata* YOKOYAMA, 1922, pl. I, figs. 38, 38a. Loc. Shitô (CM20815)
- 14 (a, b). *Ophiidermella miyatensis* (YOKOYAMA). Lectotype of *Pleurotoma* (*Mangilia*) *miyatensis* YOKOYAMA, 1920, pl. V, figs. 2 (a, b). Loc. Shimo-Miyata (CM20082)
- 15 (a-c). *Clathurella* (*Etrempa*) *subauriformis* (SMITH (E. A.)). *Drillia subauriformis* SMITH: YOKOYAMA, 1922, pl. I, figs. 30, 30a. Loc. Kamenari (CM20799)
- 16 (a-c). *Rubellatoma longispira* (SMITH (E. A.)). Lectotype of *Mangilia* (*Cythara*) *rugosolabiata* YOKOYAMA, 1922, pl. I, figs. 35, 35a. Loc. Ôtake (CM20810)
- 17 (a, b). *Oenopota nipponica* (YOKOYAMA). Holotype of *Sipho* (*Parasipho*) *nipponicus* YOKOYAMA, 1922, pl. II, fig. 14. Loc. Ôtake (CM20869)
- 18 (a-c). *Crithe cotamago* (YOKOYAMA). Lectotype of *Marginella perovulum* YOKOYAMA, 1922, pl. II, figs. 7, 7a. Loc. Shitô (CM20842)
- 19 (a-c). *Crithe cotamago* (YOKOYAMA). Lectotype of *Marginella cotamago* YOKOYAMA, 1922, pl. II, figs. 6, 6a. Loc. Shitô (CM20842)
20. *Conus* (*Endemoconus*) *sieboldii* REEVE. *Conus sieboldi* REEVE: YOKOYAMA, 1920, pl. I, fig. 14. Loc. Koshiha (CM20057)
- 21 (a, b), 22 (a, b). *Conus* (*Parviconus*) *tuberculosis* TOMLIN. Lectotype (fig. 21) and paralectotype (fig. 22) of *Conus tuberculatus* YOKOYAMA, 1920, pl. I, figs. 15 (a, b), 16 (a, b). Loc. Koshiha (CM20058, CM20059)
23. *Clathromangelia leuckarti* (DUNKER). *Clathurella centrosa* PILSBRY sensu YOKOYAMA, 1924, pl. V, fig. 15. Loc. Numa (CM21807)



# Plate 17

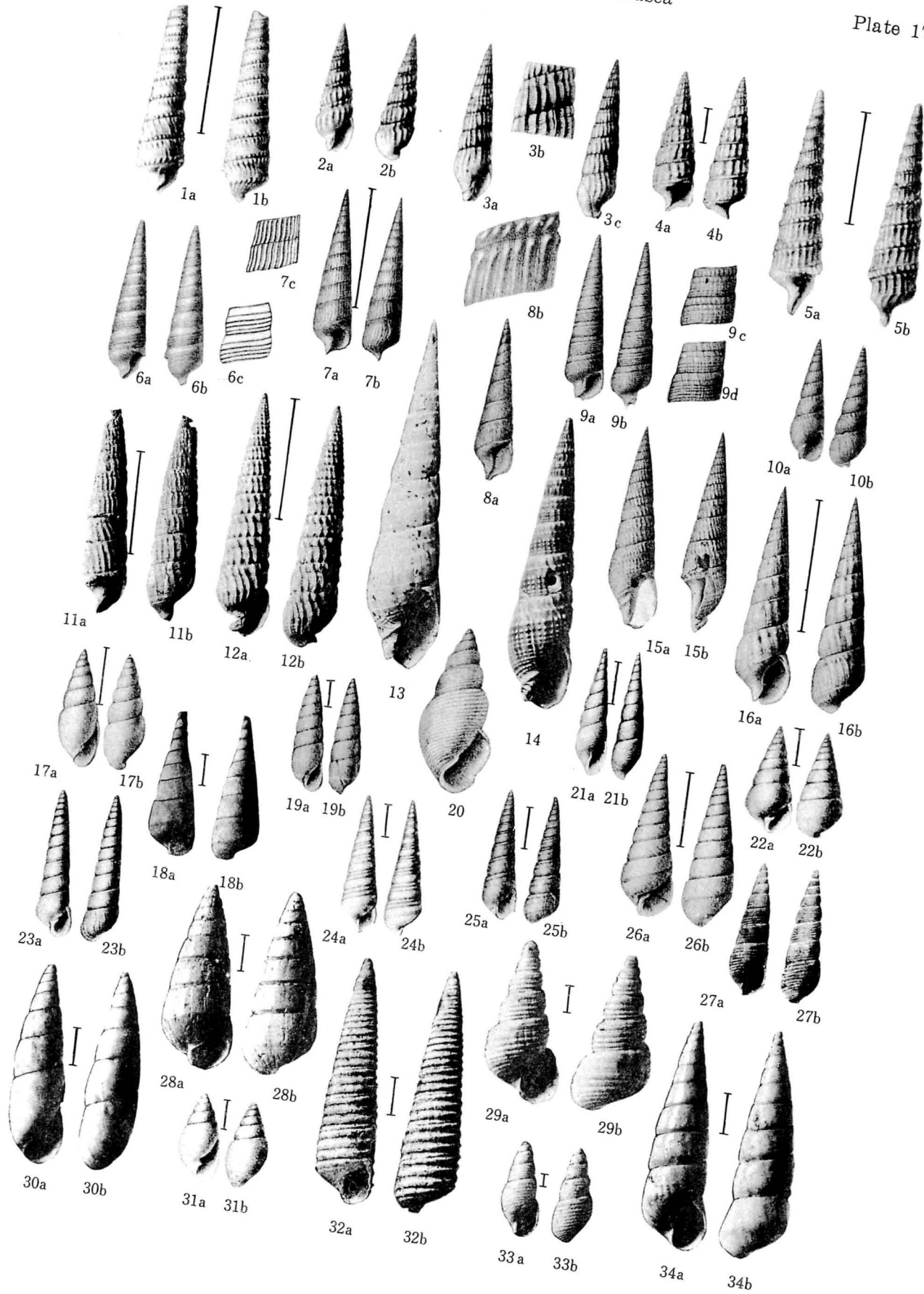
## Explanation of Plate 17

### Figure

- 1 (a, b). *Punctoterebra* (*Granuliterebra*) *tokunagai* (YOKOYAMA). Holotype of *Terebra tokunagai* YOKOYAMA, 1920, pl. I, figs. 13 (a, b). Loc. Naganuma (CM20056)
- 2 (a, b). *Noditerebra* (*Noditerebra*) *recticostata* (YOKOYAMA). Lectotype of *Terebra recticostata* YOKOYAMA, 1920, pl. I, figs. 11 (a, b). Loc. Naganuma (CM20053)
- 3 (a-c). *Punctoterebra* (*Brevimyurella*) *lischkeana* (DUNKER) var. *Terebra lischkeana* DUNKER : YOKOYAMA, 1920, pl. I, figs. 10 (a-c). Loc. Kami-Miyata (CM20052)
- 4 (a, b). *Noditerebra* (*Noditerebra*) *evoluta latisulcata* (YOKOYAMA). Lectotype of *Cerithiopsis nodosocostatus* [-a] YOKOYAMA, 1922, pl. III, fig. 14. Loc. Shitô (CM20782)
- 5 (a, b). *Strioterebrum* (*Cinguloterebra*) *naumanni* (YOKOYAMA). Lectotype of *Terebra naumanni* YOKOYAMA, 1920, pl. I, figs. 12 (a, b). Loc. Naganuma (CM20055)
- 6 (a, b). *Strioterebrum* (*Cinguloterebra*) *hedleyana quadriarata* YOKOYAMA, 1922, pl. I, figs. 22, 22a. Loc. Shitô (CM20881)
- 7 (a-c). *Hasulopsis melanacme* (SMITH (E. A.)). *Terebra gotoensis* SMITH sensu YOKOYAMA, 1922, pl. I, figs. 18, 18a. Loc. Ôtake (CM20773)
- 8 (a, b). *Noditerebra* (*Noditerebra*) *evoluta latisulcata* (YOKOYAMA). Lectotype of *Terebra latisulcata* YOKOYAMA, 1922, pl. I, figs. 23, 23a. Loc. Shitô (CM20782)
- 9 (a-d). *Strioterebrum* (*Cinguloterebra*) *heldeyana* (PILSBRY). *Terebra hedleyi* PILSBRY : YOKOYAMA, 1922, pl. I, figs. 19 (a, b). Loc. Ôtake (CM20874)
- 10 (a, b). *Noditerebra* (*Pristiterebra*) *suavidica* (YOKOYAMA). Lectotype of *Terebra suavidica* YOKOYAMA, 1922, pl. I, fig. 24. Loc. Shisui (CM20784)
- 11 (a, b). *Strioterebrum* (*Strioterebrum*) *subtextile* (SMITH (E. A.)). *Terebra textilis* HINDS sensu YOKOYAMA, 1927, pl. XLVI, fig. 9. Loc. Shinagawa (CM23636)
- 12 (a, b). *Punctoterebra* (*Granuliterebra*) *bathyrhaphe* (SMITH (E. A.)). Lectotype of *Terebra edoensis* YOKOYAMA, 1927, pl. XLVI, fig. 9. Loc. Kuruma-chô (CM23636)
- 13, 14. *Noditerebra* (*Pristiterebra*) *tsuboiana* (YOKOYAMA). Lectotype (fig. 14) and paralectotype (fig. 13) of *Terebra tsuboiana* YOKOYAMA, 1922, pl. XIII, figs. 12, 13. Loc. Kioroshi (fig. 13) and Sagami Sea (living) (fig. 14).
- 15 (a, b). *Noditerebra* (*Pristiterebra*) *tsuboiana* (YOKOYAMA). Lectotype of *Terebra smithi* YOKOYAMA, 1922, pl. I, fig. 21. Loc. Ôtake (CM20780)
- 16 (a, b). *Laeviacus pustulosa* (SMITH (E. A.)). Lectotype of *Terebra chibana* YOKOYAMA, 1922, pl. I, fig. 20. Loc. Ôtake (CM20777)
- 17 (a, b). *Agatha brevis* (YOKOYAMA). Lectotype of *Syrnola* (*Agatha*) *virgo* var. *brevis* YOKOYAMA, 1922, pl. V, fig. 3. Loc. Ôtake (CM21031)
- 18 (a, b). *Syrnola* (*Colsyrnola* ?) *kurumana* (YOKOYAMA). Holotype of *Turbonilla* (*Ptycheulimella* ?) *kurumana* YOKOYAMA, 1927, pl. XLVII, fig. 16. Loc. Kuruma-chô (CM23862)
- 19 (a, b). *Syrnola* (*Syrnola* ?) *cinnamomea* ADAMS (A.). *Pyramidella* (*Syrnola*) *cinnamomea* ADAMS sensu YOKOYAMA, 1922, pl. V, fig. 2. Loc. Ôtake (CM21037)
20. *Leucotina gigantea* (DUNKER) : YOKOYAMA, 1922, pl. I, fig. 3. Loc. Ôtake (CM20733)
- 21 (a, b). *Syrnola* (*Iphiana*) *siva* (YOKOYAMA). Holotype of *Pyramidella* (*Iphiana*) *siva* YOKOYAMA, 1922, pl. IV, fig. 26. Loc. Shitô (CM21040)
- 22 (a, b). *Tiberia* (*Orinella*) *pseudopulchella* (YOKOYAMA). Holotype of *Pyramidella* (*Tiberia*) *pseudopulchella* YOKOYAMA, 1920, pl. V, figs. 11 (a, b). Loc. Naganuma (CM20241)
- 23 (a, b). *Syrnola* (*Iphiana*) *mira* (YOKOYAMA). Lectotype of *Pyramidella* (*Iphiana*) *mira* YOKOYAMA, 1922, pl. IV, fig. 25. Loc. Shitô (CM21038)



- 24 (a, b). *Cingulina (Cingulina) circinata* (ADAMS (A.)). Lectotype of *Turbonilla (Cingulina) adamsi* YOKOYAMA, 1920, pl. V, figs. 17 (a, b). Loc. Naganuma (CM20248)
- 25 (a, b). *Cingulina (Cingulina) triarata* (PILSBRY). *Turbonilla (Cingulina) triarata* PILSBRY: YAKOYAMA, 1922, pl. V, fig. 14. Loc. Shisui (CM21089)
- 26 (a, b). *Tiberia (Orinella) pulchella* (ADAMS (A.)). *Pyramidella (Tiberia) pulchella* ADAMS: YOKOYAMA, 1922, pl. V, fig. 6. Loc. Shitô (CM21027)
- 27 (a, b). *Actaeopyramis eximia* (LISCHKE). *Pyramidella (Actaeopyramis) eximia* LISCHKE: YOKOYAMA, 1922, pl. VI, fig. 1. Loc. Ôtake (CM21041)
- 28 (a, b). *Tiberia (Orinella) ebarana* (YOKOYAMA). Holotype of *Pyramidella (Tiberia) ebarana* YOKOYAMA, 1927, pl. XLVII, fig. 6. Loc. Shinagawa (CM23813)
- 29 (a, b). *Kleinella amicalis* (YOKOYAMA). Holotype of *Odostomia (Iolaea) amicalis* YOKOYAMA, 1927, pl. XLVII, fig. 18. Loc. Ôji
- 30 (a, b). *Syrnola (Hoosyrnola) inturbida* (YOKOYAMA). Lectotype of *Pyramidella (Syrnola?) inturbida* YOKOYAMA, 1927, pl. XLVII, fig. 7. Loc. Ôji (CM23818)
- 31 (a, b). *Agatha brevis* (YOKOYAMA). Lectotype of *Odostomia (Odostomia) venusta* YOKOYAMA, 1922, pl. IV, fig. 30. Loc. Shitô (CM21063)
- 32 (a, b). *Cingulina (Polyspirella) cingulata* (DUNKER). *Turbonilla (Cingulina) cingulata* DUNKER: YOKOYAMA, 1927, pl. LL, fig. 6. Loc. Ichikawa
- 33 (a, b). *Actaeopyramis lectissimoides* (YOKOYAMA). Holotype of *Odostomia (Odetta) lectissimoides* YOKOYAMA, 1927, pl. XLVII, fig. 12. Loc. Kuruma-chô (CM23839)
- 34 (a, b). *Syrnola (Colsyrnola) toshimana* (YOKOYAMA). Lectotype of *Pyramidella (Syrnola) toshimana* YOKOYAMA, 1927, pl. XLVII, fig. 10. Loc. Ôji (CM23816)



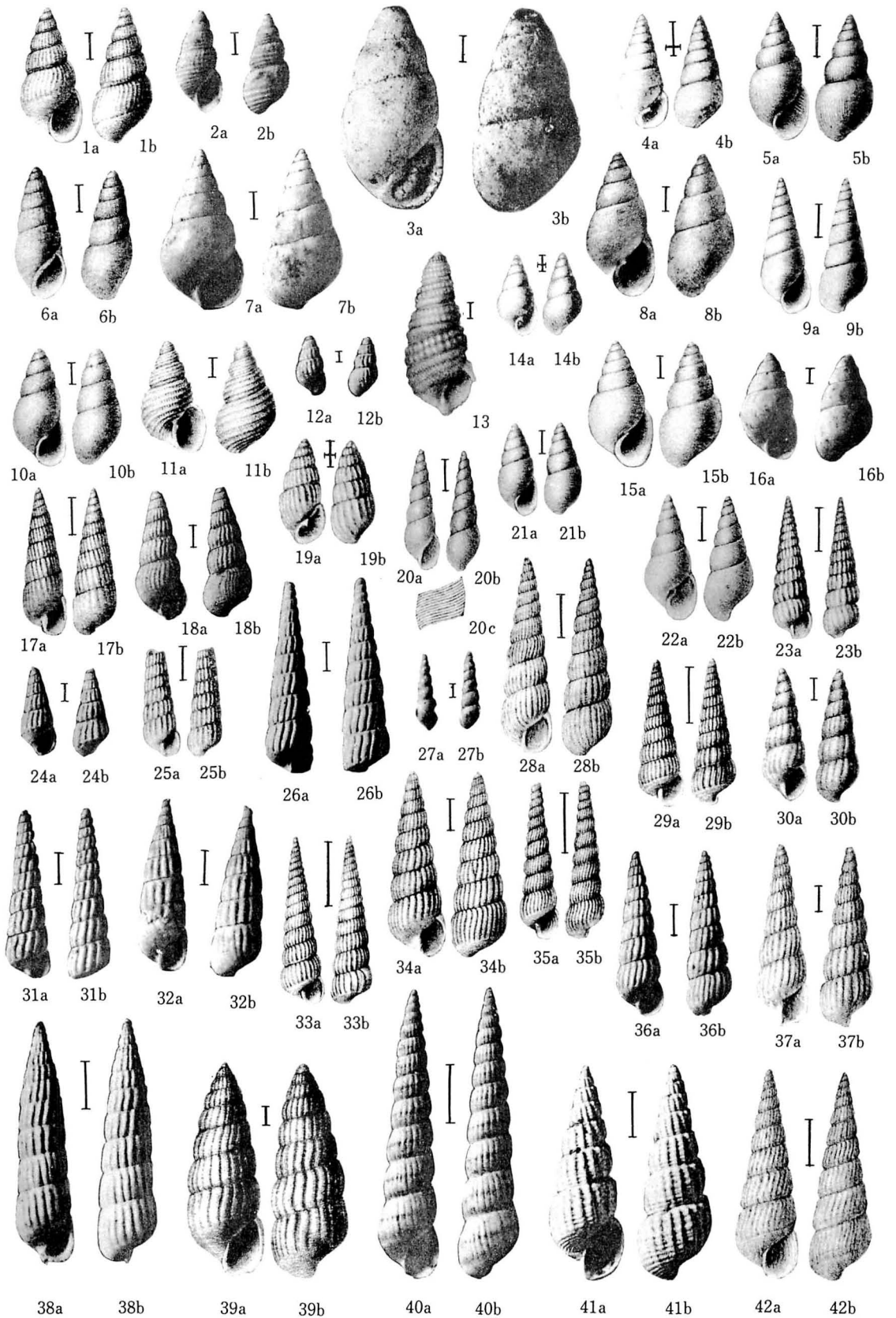
# Plate 18

## Explanation of Plate 18

### Figure

- 1 (a, b). *Chrysallida (Partulida) marielloides* (YOKOYAMA). Lectotype of *Odostomia (Egilina) marielloides* YOKOYAMA, 1922, pl. IV, fig. 34. Loc. Shisui (CM21072)
- 2 (a, b). *Miralda (Evalina) nishiana* (YOKOYAMA). Holotype of *Odostomia (Menestho) nishiana* YOKOYAMA, 1927, pl. XLVII, fig. 14. Loc. Ôji
- 3 (a, b). *Odostomia (Megastomia) resticella* YOKOYAMA. Holotype of *Odostomia (Heida) rusticella* YOKOYAMA, 1927, pl. LI, fig. 10. Loc. Ichikawa
- 4 (a, b). *Odostomia (Odostomia) hilgendorfi* CLESSIN: YOKOYAMA, 1920, pl. V, figs. 9 (a, b). Loc. Naganuma (CM20243)
- 5 (a, b). *Odostomia (Evalea) gordonis* YOKOYAMA. Lectotype of *Odostomia (Odostomia) gordonis* YOKOYAMA, 1922, pl. IV, fig. 27. Loc. Ôtake (CM21047)
- 6 (a, b). *Chrysallida (Salassia) manzakiana* (YOKOYAMA). Lectotype of *Rissoina (Moerchiella) manzakiana* (YOKOYAMA), 1922, pl. pl. IV, fig. 4. Loc. Ôtake (CM20975)
- 7 (a, b). *Odostomia (Odostomia) optata* YOKOYAMA, holotype of YOKOYAMA, 1927, pl. XLVII, fig. 11. Loc. Ôji (CM23833)
- 8 (a, b). *Odostomia (Odostomia) limpida* DALL & BARTSCH: YOKOYAMA, 1922, pl. XIV, fig. 1. Loc. Ôtake (CM21050)
- 9 (a, b). *Odostomia (Odostomia) shimosensis* YOKOYAMA, lectotype, YOKOYAMA, 1922, pl. IV, fig. 28. Loc. Ôtake (CM21053)
- 10 (a, b). *Odostomia (Odostomia) suboxia* YOKOYAMA, lectotype, YOKOYAMA, 1922, pl. IV, fig. 32. Loc. Ôtake (CM21070)
- 11 (a, b). *Kleinella neofelix* (YOKOYAMA). Lectotype of *Odostomia (Odetta) neofelix* YOKOYAMA, 1922, pl. IV, fig. 33. Loc. Tega (CM21071)
- 12 (a, b). *Chrysallida (Besla) bicinctella* (YOKOYAMA). Lectotype of *Odostomia (Besla) bicinctella* YOKOYAMA, 1927, pl. XLVII, fig. 17. Loc. Dôkanyama
13. *Miralda (Miralda) gemma* (ADAMS (A.)). *Odostomia (Miralda) gemma* (A. ADAMS): YOKOYAMA, 1924, pl. V, fig. 16. Loc. Numa (CM21874)
- 14 (a, b). *Odostomia (Odostomia) sublimpida* YOKOYAMA, lectotype, YOKOYAMA, 1920, pl. V, fig. 13. Loc. Ôtake (CM20246)
- 15 (a, b). *Odostomia (Evalea) toneana* YOKOYAMA. Lectotype of *Odostomia (Odostomia) toneana* YOKOYAMA, 1922, pl. IV, fig. 31. Loc. Ôtake (CM21067)
- 16 (a, b). *Odostomia (Odostomia) fujitani* YOKOYAMA, lectotype, 1927, pl. XLVII, fig. 15. Loc. Ôji (CM23831)
- 17 (a, b). *Turbonilla (Turbonilla) teganumana* YOKOYAMA, lectotype of *Turbonilla (Chemnitzia) teganumana* YOKOYAMA, 1922, pl. IV, fig. 40. Loc. Tega (CM21082)
- 18 (a, b). *Chrysallida (Chrysallida) shibana* (YOKOYAMA). Lectotype of *Odostomia (Besla) shibana* YOKOYAMA, pl. XLVII, fig. 13. Loc. Kuruma-chô
- 19 (a, b). *Chrysallida (Salassilla)* sp. *Odostomia (Parthenia) takinogawaensis* TOKUNAGA sensu YOKOYAMA, 1920, pl. V, figs. 10 (a, b). Loc. Naganuma (CM20245)
- 20 (a-c). *Ebala (Ebala) obscura* (YOKOYAMA). Holotype of *Turbonilla (Caleriopsis) obscura* YOKOYAMA, 1922, pl. V, figs. 15, 15a. Loc. Shitô (CM21092)
- 21 (a, b). *Odostomia (Odostomia) kizakiensis* YOKOYAMA, lectotype, YOKOYAMA, 1922, pl. IV, fig. 29. Loc. Tega (CM21062)
- 22 (a, b). *Odostomia (Evalea)* sp. *Odostomia (Odostomia) desimana* DALL & BARTSCH: YOKOYAMA, 1922, pl. V, fig. 7. Loc. Ôtake (CM21058 missing)

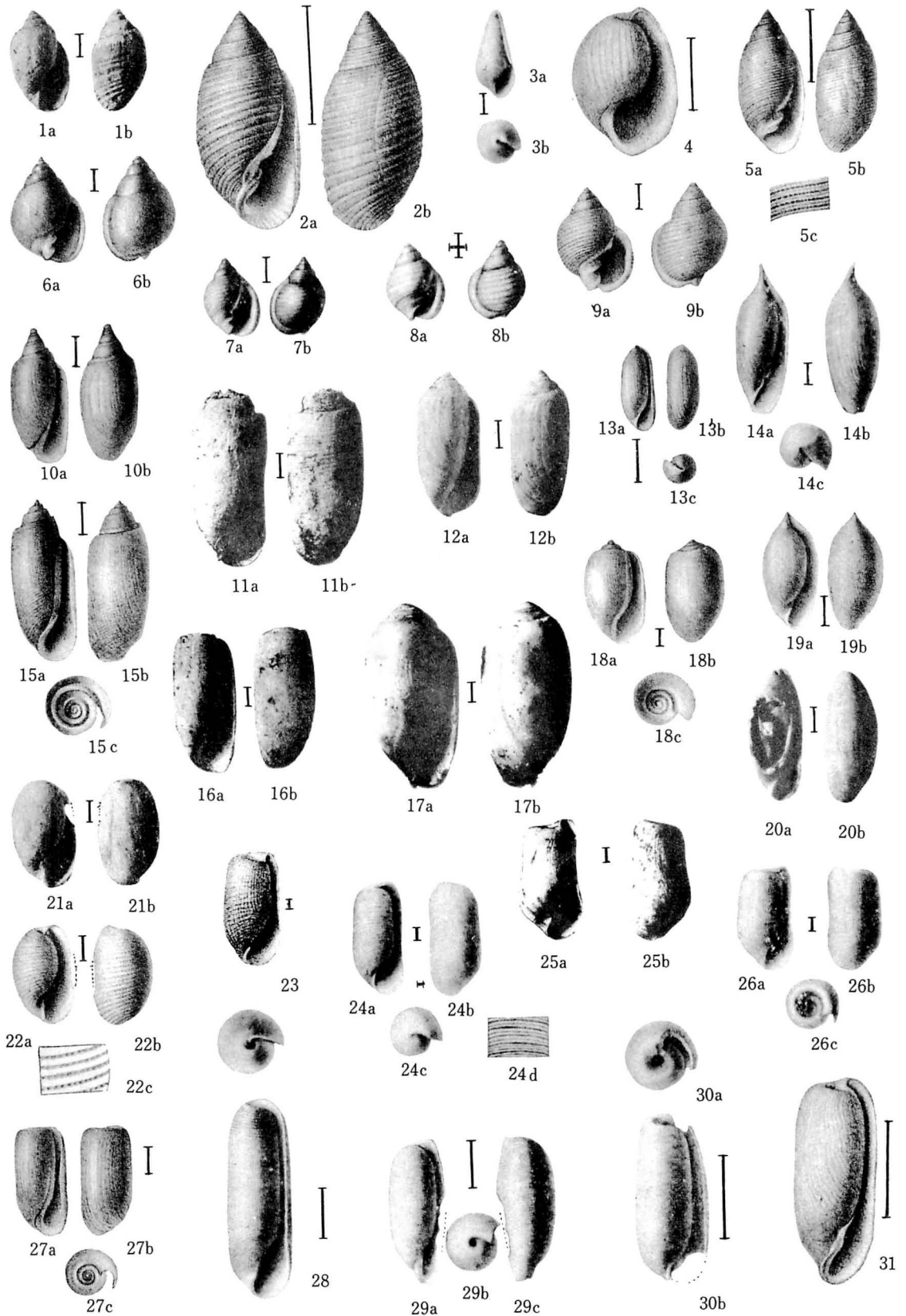
- 23 (a, b). *Turbonilla (Paramormula) tokunagai* YOKOYAMA. Holotype of *Turbonilla (Mormula) tokunagai* YOKOYAMA, 1920, pl. V, figs. 18 (a, b). Loc. Ôtsu (CM20251)
- 24 (a, b). *Turbonilla (Asmunda) affectuosa* (YOKOYAMA). Holotype of *Odostomia (Egilina) affectuosa* YOKOYAMA, 1927, pl. XLVII, fig. 10. Loc. Kuruma-chô (CM23836)
- 25 (a, b). *Turbonilla (Chemnitzia) subapproximata* YOKOYAMA, holotype, YOKOYAMA, 1920, pl. V, fig. 16. Loc. Naganuma (CM20250)
- 26 (a, b). *Turbonilla (Chemnitzia) pseudocura* NOMURA. *Turbonilla dunkeri* CLESSIN sensu YOKOYAMA, 1927, pl. XLVII, fig. 21. Loc. Shinagawa (CM23848 missing)
- 27 (a, b). *Ebala (Ebala) pagodula* (YOKOYAMA). Holotype of *Rissoina (?) pagodula* YOKOYAMA, 1927, pl. XLVI, fig. 28. Loc. Dôkanyama (CM23769)
- 28 (a, b). *Turbonilla (Pyrgolampros) planicostata* YOKOYAMA, lectotype, YOKOYAMA, 1922, pl. V, fig. 11. Loc. Shisui (CM21086)
- 29 (a, b). *Turbonilla (Paramormula) paucicostulata* TOKUNAGA. *Turbonilla (Mormula) paucicostulata* TOKUNAGA: YOKOYAMA, 1922, pl. IV, fig. 37. Loc. Shitô (CM21077)
- 30 (a, b). *Turbonilla (Chemnitzia) sematana* YOKOYAMA, lectotype of YOKOYAMA, 1922, pl. IV, fig. 41. Loc. Shitô (CM21084)
- 31 (a, b). *Turbonilla (Chemnitzia) keiskeana* YOKOYAMA, holotype, 1927, pl. XLVII, fig. 19. Loc. Ôji (CM23852)
- 32 (a, b). *Turbonilla (Turbonilla) edoensis* YOKOYAMA. Holotype of *Turbonilla (Chemnitzia) edoensis* YOKOYAMA, 1927, pl. XLVII, fig. 24. Loc. Kuruma-chô (CM23853)
- 33 (a, b). *Turbonilla (Paramormula) scrobiculata* YOKOYAMA. Lectotype of *Turbonilla (Mormula?) scrobiculata* YOKOYAMA, 1922, pl. IV, fig. 38. Loc. Ôtake (CM21080)
- 34 (a, b). *Turbonilla (Turbonilla) imbana* YOKOYAMA. Lectotype of *Turbonilla (Chemnitzia) imbana* YOKOYAMA, 1922, pl. IV, fig. 35. Loc. Ôtake (CM21076)
- 35 (a, b). *Turbonilla (Chemnitzia) kidoensis* YOKOYAMA, lectotype, YOKOYAMA, 1922, pl. IV, fig. 39. Loc. Tega (CM21081)
- 36 (a, b). *Turbonilla (Chemnitzia) multigyrata* DUNKER: YOKOYAMA, 1927, pl. XLVII, fig. 20. Loc. Kurumachô (CM23850)
- 37 (a, b). *Turbonilla (Strioturbonilla) pacifica* YOKOYAMA, lectotype, YOKOYAMA, 1922, pl. V, fig. 13. Loc. Shitô (CM21088)
- 38 (a, b). *Turbonilla (Paramormula) semicolorata* YOKOYAMA. Lectotype of *Turbonilla (Mormula) semicolorata* YOKOYAMA, 1927, pl. XLVII, fig. 22. Loc. Kuruma-chô (CM23856)
- 39 (a, b). *Turbonilla (Chemnitzia) humilis* YOKOYAMA. Holotype of *Turbonilla humilis* YOKOYAMA, 1924, pl. II, fig. 3. Loc. Numa (CM21877)
- 40 (a, b). *Turbonilla (Pyrgolampros) subplanicosta* YOKOYAMA, holotype, YOKOYAMA, 1927, pl. XLVII, fig. 23. Loc. Ôji (CM23863)
- 41 (a, b). *Turbonilla (Dunkeria) shigeyasui* YOKOYAMA. Lectotype of *Turbonilla (Pyrgisculus) shigeyasui* YOKOYAMA, 1927, pl. XLVII, fig. 26. Loc. Dôkanyama (CM23865)
- 42 (a, b). *Turbonilla (Pselliogyra) sagamiana* YOKOYAMA. Lectotype of *Turbonilla (Strioturbonilla) sagamiana* YOKOYAMA, 1922, pl. V, fig. 12. Loc. Ôtake (CM21087)



## Explanation of Plate 19

### Figure

- 1 (a, b). *Acteon (Japanacteon) nipponensis* (YAMAKAWA). *Acteon tornatilis* (LINNÉ) var. *nipponensis* YAMAKAWA: YOKOYAMA, 1927, pl. XLVI, fig. 1. Loc. Ôji (CM23599 missing)
- 2 (a, b). *Solidula (Solidula) clathrata* YOKOYAMA. Lectotype of *Solidula clathrata* YOKOYAMA, pl. I, fig. 2. Loc. Shitô (CM20731)
- 3 (a, b). *Pyrrunculus phialus* (ADAMS (A.)). *Cylichna sibaensis* YAMAKAWA: YOKOYAMA, 1920, pl. I, figs. 6 (a, b). Loc. Kami-Miyata (CM20039)
4. *Haloa rotundata* (ADAMS (A.)). *Bulla ovula* SOWERBY sensu YOKOYAMA, 1922, pl. I, fig. 15. Loc. Shisui (CM20765)
- 5 (a-c). *Solidula (Strigopupa) strigosa* (GOULD). *Solidula strigosa* GOULD: YOKOYAMA, 1922, pl. I, figs. 1, 1a. Loc. Ôtake (CM20728)
- 6 (a, b), 9 (a, b). *Ringicula doliaris* GOULD. *Ringicula musashinoensis* YOKOYAMA: YOKOYAMA, 1922, pl. I, figs. 17, 16. Locs. Ôtake (fig. 6) and Shitô (fig. 9) (CM20767, CM20766)
- 7 (a, b), 8 (a, b). *Ringicula doliaris* GOULD. Lectotype (fig. 7) and paralectotype (fig. 8) of *Ringicula musashinoensis* YOKOYAMA, 1920, pl. I, figs. 3 (a, b), 8 (a, b). Loc. Naganuma (CM20046, CM20047)
9. see fig. 6
- 10 (a, b). *Acteocina (Decorifer) logispirata* (YAMAKAWA). *Tornatina longispirata* YAMAKAWA: YOKOYAMA, 1922, pl. I, fig. 5. Loc. Shitô (CM20740)
- 11 (a, b). *Acteocina (Didontoglossa) koyasensis* (YOKOYAMA). Holotype of *Tornatina koyasensis* YOKOYAMA, 1927, pl. LI, fig. 1. Loc. Koyasu (CM24187)
- 12 (a, b). *Acteocina (Decorifer) insignis* (PILSBRY). Holotype of *Tornatina fontinalis* YOKOYAMA, 1927, pl. XLVI, fig. 3. Loc. Sendagaya (CM23608)
- 13 (a-c). *Rhizorus cylindrellus* (ADAMS (A.)). *Volvula angusta* (A. ADAMS) var. by YOKOYAMA, 1922, pl. I, figs. 8, 8a. Loc. Ôtake (CM20749)
- 14 (a-c). *Rhizorus radiola* (ADAMS (A.)). *Volvula acuminata* BRUGUIÈRE sensu YOKOYAMA, 1920, pl. I, figs. 2 (a-c). Loc. Yokosuka (CM20035)
- 15 (a-c). *Acteocina (Tornatina) exilis* (DUNKER). *Tornatina exilis* DUNKER: YOKOYAMA, 1922, pl. I, figs. 4, 4a. Loc. Ôtake (CM20736)
- 16 (a, b). *Acteocina (Didontoglossa) koyasensis* (YOKOYAMA). Holotype of *Tornatina dulcis* YOKOYAMA, 1927, pl. LI, fig. 2. Loc. Shimo-Sueyoshi (CM24188)
- 17 (a, b). *Acteocina (Tornatina) gordonis* (YOKOYAMA). Holotype of *Retusa gordonis* YOKOYAMA, 1927, pl. LI, fig. 3. Loc. Matsudo (CM24190)
- 18 (a-c). *Acteocina (Decorifer) globosa* (YAMAKAWA). *Retusa globosa* YAMAKAWA: YOKOYAMA, 1922, pl. I, figs. 6, 6a. Loc. Ôtake (CM20743 missing)
- 19 (a, b). *Rhizorus acutaeformis* (YOKOYAMA). Lectotype of *Volvula acutaeformis* YOKOYAMA, 1922, pl. I, fig. 9. Loc. Shitô (CM20752)
- 20 (a, b). *Phenacovolvula artiaperta* (YAMAKAWA). *Volvula artiaperta* YAMAKAWA: YOKOYAMA, 1927, pl. XLVI, fig. 4. Loc. Kuruma-chô (CM23614)
- 21 (a, b). *Acteocina (Decorifer) globosa* (YAMAKAWA) var. *Tornatina simplex* ADAMS sensu YOKOYAMA, 1927, pl. XLVI, fig. 2. Loc. Kuruma-chô (CM23607)
- 22 (a-c). *Abderospira punctulata* (ADAMS (A.)). Lectotype of *Bulla multistriata* YOKOYAMA, 1922, pl. I, figs. 14, 14a. Loc. Shitô (CM20763)
23. *Retusa (Coleophysis) lineolata* YOKOYAMA. Lectotype of *Retusa lineolata* YOKOYAMA, 1924, pl. I, fig. 6. Loc. Numa (CM21806)
- 24 (a-d). *Cylichnatys angusta* (GOULD). *Cylichna yamakawai* YOKOYAMA, 1920, pl. I, figs. 7a-d. Loc. Yokosuka (CM20043)
- 25 (a, b). *Retusa (Coleophysis) succincta* (ADAMS (A.)). Holotype of *Retusa cucurbitina* YOKOYAMA, 1927, pl. LI, fig. 4. Loc. Koyasu (CM24191)
- 26 (a-c). *Retusa (Coleophysis) minima* YAMAKAWA. *Retusa minima* YAMAKAWA: YOKOYAMA, 1920, pl. I, fig. 1. Loc. Naganuma (CM20033)
- 27 (a-c). *Acteocina (Decorifer) delicatula* (ADAMS (A.)). *Retusa truncata* YAMAKAWA: YOKOYAMA, 1922, pl. I, figs. 7, 7a. Loc. Ôtake (CM20746)
- 28 (a, b). *Eocylichna braunsi* (YOKOYAMA). Lectotype of *Cylichna braunsi* YOKOYAMA, 1920, pl. I, figs. 5 (a, b). Loc. Naganuma (CM20037)
- 29 (a-c). *Adamnestia japonica* (ADAMS (A.)). Holotype of *Cylichna orientalis* YOKOYAMA, 1920, pl. I, figs. 9 (a-c). Loc. Koshiha (CM20045)
- 30 (a, b). *Adamnestia japonica* (ADAMS (A.)). *Cylichna musashiensis* TOKUNAGA sensu YOKOYAMA, 1920, pl. I, figs. 4 (a, b). Loc. Koshiha (CM20036)
31. *Adamnestia japonica* (ADAMS (A.)). *Cylichna musashiensis* TOKUNAGA sensu YOKOYAMA, 1922, pl. I, fig. 10. Loc. Ôtake (CM20754)

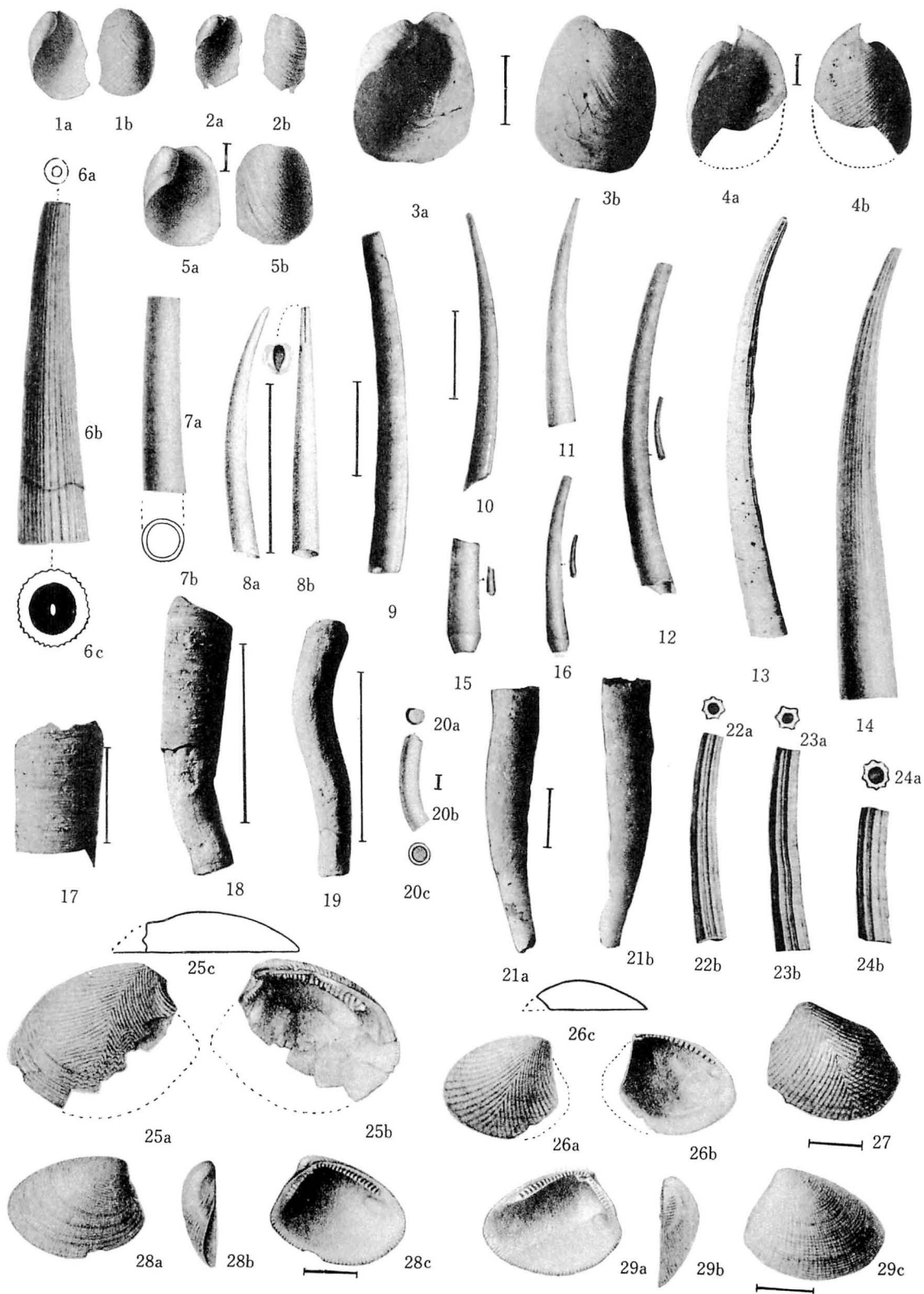


## Explanation of Plate 20

### Figure

- 1 (a, b). *Philine vitrea* GOULD. *Philine scalpta* A. ADAMS: YOKOYAMA, 1922, pl. I, fig. 11. Loc. Shisui (CM20758)
- 2 (a, b). *Philine vitrea* GOULD (?). *Philine scalpta* A. ADAMS (?): YOKOYAMA, 1922, pl. I, fig. 12. Loc. Kioroshi (CM20759)
- 3 (a, b). *Philine argentata* GOULD. *Philine japonica* LISCHKE: YOKOYAMA, 1927, pl. XLVI, fig. 5. Loc. Ôji (CM23625)
- 4 (a, b). *Yokoyamaia* (*Yokoyamaia*) *ornatissima* (YOKOYAMA). Holotype of *Philine ornatissima* YOKOYAMA, 1927, pl. XLVI, fig. 6. Loc. Kuruma-chô (CM23626)
- 5 (a, b). *Yokoyamaia* (*Choshiphiline*) *pygmaea* (YOKOYAMA). Lectotype of *Philine pygmaea* YOKOYAMA, 1922, pl. I, fig. 13. Loc. Ôtake (CM20760)
- 6 (a-c). *Dentalium* (*Fissidentalium*) *yokoyamai* MAKIYAMA, paratype. *Dentalium complexum* YOKOYAMA, 1920, pl. VI, fig. 27. Loc. Koshiha (CM20306)
- 7 (a, b), 11, 14. *Dentalium* (*Antalis*) *septentrionale* KURODA, apoelectotype (fig. 14) and paralectotypes (figs. 7, 11). *Dentalium weinkauffii* DUNKER sensu YOKOYAMA, 1920, pl. VI, figs. 20, 21, 19. Loc. Shimo-Miyata (all specimens CM20314)
- 8 (a-c). *Dentalium* (*Fustiaria*) *nipponicum* YOKOYAMA. Lectotype of *Dentalium* (*Fustiaria*) *nipponicum* YOKOYAMA, 1922, pl. VII, fig. 7. Loc. Shitô (CM21050)
9. *Dentalium* (*Graptacme*) *buccinulum* GOULD. *Dentalium semipolitum* BRODERIP & SOWERBY sensu YOKOYAMA, 1927, pl. XLVIII, fig. 7. Loc. Shinagawa (CM23901)
10. *Dentalium* (*Laeidentalium*) *yamakawai* YOKOYAMA. Lectotype of *Dentalium yamakawai* YOKOYAMA, 1927, pl. XLVIII, fig. 6. Loc. Shinagawa (CM23906)
11. see fig. 7
- 12 (a, b). *Ditrupa edoensis* (TOKUNAGA). *Dentalium endoense* TOKUNAGA: YOKOYAMA, 1920, pl. VI, fig. 28. Loc. Ôkine (CM20325)
13. *Dentalium* (*Antalis*) *septentrionale* KURODA. *Dentalium weinkauffii* DUNKER sensu YOKOYAMA, 1922, pl. VI, fig. 6. Loc. Ôtake (CM21138)
14. see fig. 7
- 15 (a, b), 16 (a, b). *Ditrupa edoensis* (TOKUNAGA). Lectotype (fig. 16) and paralectotype (fig. 15) of *Cadulus gordonis* YOKOYAMA, 1920, pl. VI, figs. 26, 25. Loc. Ôkine (fig. 16) and Naganuma (fig. 15) (CM20329, CM20328)
- 17, 18, 19. *Eufistulana grandis* (DESHAYES). Lectotype (fig. 17) and paralectotype (fig. 18, 19) of *Vermetus ebaranus* YOKOYAMA, 1927, pl. XLVI, figs. 15, 16, 17. Loc. Shinagawa (CM23758, CM23759, CM23760)
- 20 (a-c). *Caecum* (*Brochina*) *glabellum* (ADAMS (A.)). *Caecum vitreum* CARPENTER sensu YOKOYAMA, 1922, pl. III, fig. 18. Loc. Shitô (CM21965)
- 21 (a, b). "Teredo" sp. *Teredo* sp. YOKOYAMA, 1927, pl. LII, fig. 2. Loc. Koyasu (CM24357)
- 22 (a, b), 23 (a, b), 24 (a, b). *Dentalium* (*Paradentalium*) *octangulatum hexagonum* GOULD. *Dentalium octogonum* LAMARCK sensu YOKOYAMA, 1920, pl. VI, figs. 23, 22, 24. Loc. Naganuma (CM20320 missing)
- 25 (a-c). *Acila* (*Acila*) *divaricata* (HINDS). *Nucula mirabilis* ADAMS & REEVE sensu YOKOYAMA, 1920, pl. XIX, figs. 9 (a-c). Loc. Nojima (CM20688 missing)
- 26 (a-c), 27. *Acila* (*Acila*) *minutoides* KURODA & HABE. *Nucula insignis* GOULD sensu YOKOYAMA, 1920, pl. XIX, figs. 8, 7. Loc. Koshiha (CM20687, CM20686)
- 28 (a-c), 29 (a-c). *Nucula* (*Lamellinucula*) *tokyoensis* YOKOYAMA. Lectotype (fig. 29) and paralectotype (fig. 28) of *Nucula tokyoensis* YOKOYAMA, 1920, pl. XIX, figs. 10 (a-c), 11 (a-c). Loc. Naganuma (CM20690 missing, CM20691 missing)

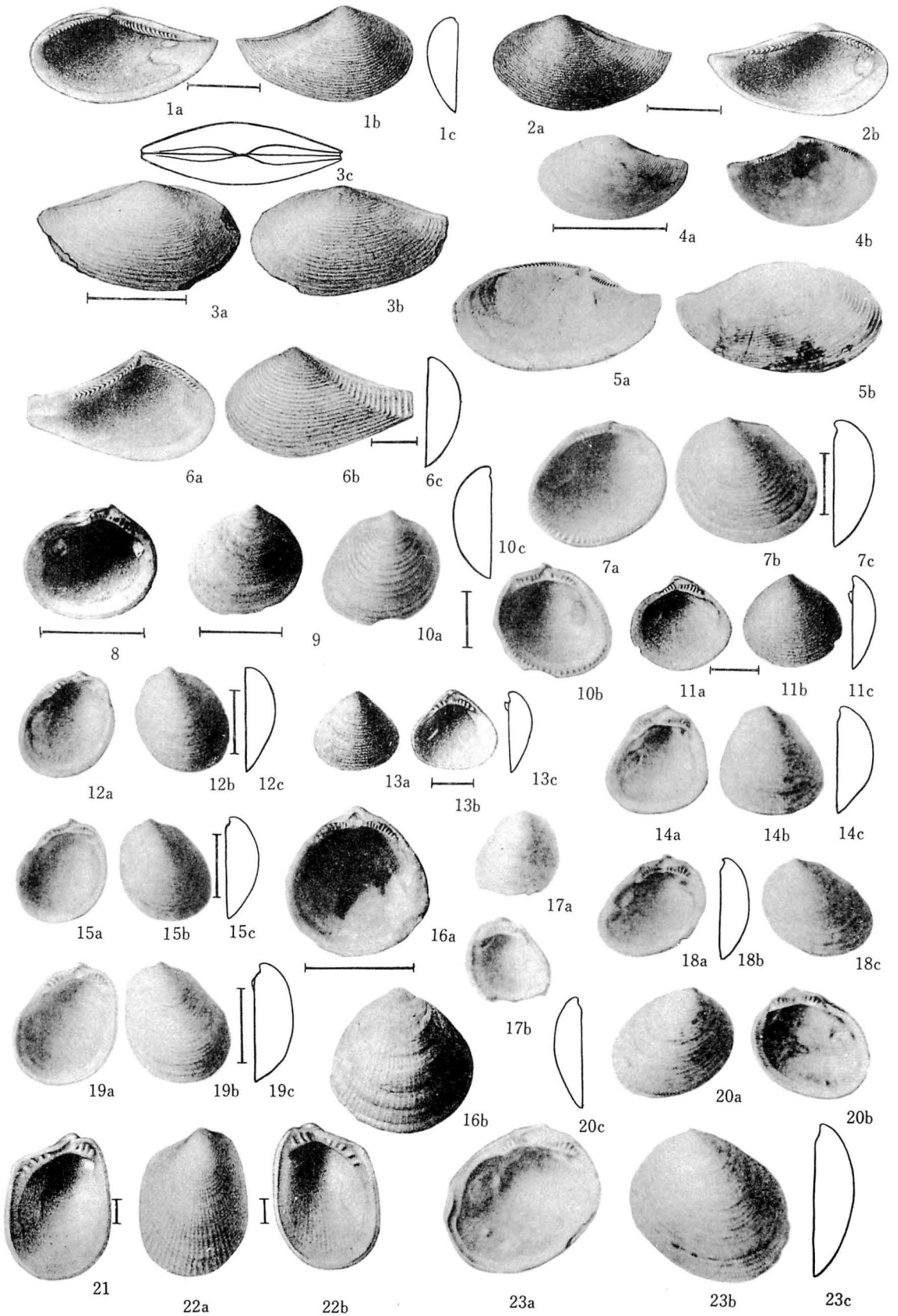




## Explanation of Plate 21

### Figure

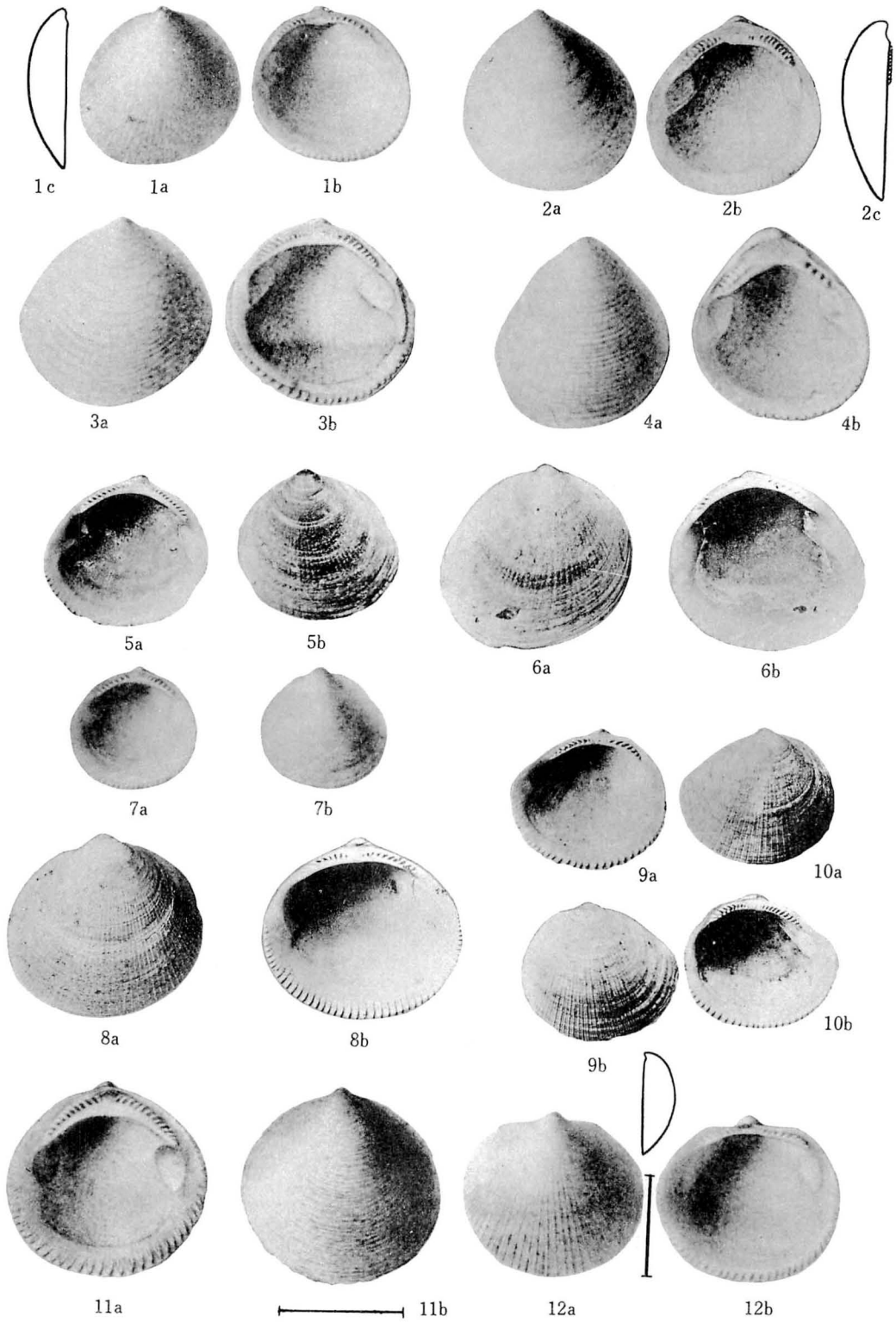
- 1 (a-c), 2 (a, b). *Saccella gordonis* (YOKOYAMA). Lectotype (fig. 1) and paralectotype (fig. 2) of *Leda gordonis* YOKOYAMA, 1920, pl. XIX, figs. 5 (a-c), 4 (a, b). Loc. Naganuma (CM20684 missing, CM20683 missing)
- 3 (a-c). *Yoldia* (*Yoldia*) *naganumana* (YOKOYAMA). Holotype of *Leda naganumana* YOKOYAMA, 1920, pl. XIX, fig. 6 (a-c). Loc. Naganuma (CM20685)
- 4 (a, b). *Saccella confusa* (HANLEY). *Leda confusa* HANLEY: YOKOYAMA, 1922, pl. XVII, fig. 4. Loc. Tega
- 5 (a, b). *Yoldia* (*Cnesterium*) *notabilis* YOKOYAMA. Lectotype of *Yoldia notabilis* YOKOYAMA, 1922, pl. XVII, fig. 10. Loc. Ôtake
- 6 (a-c). *Nuculana* (*Nuculana*) *yokoyamai* KURODA, lectotype. *Leda ramsayi* SMITH sensu YOKOYAMA, 1920, pl. XIX, figs. 3 (a-c). Loc. Koshiba (CM20681 missing)
- 7 (a-c), 10 (a-c). *Limopsis* (*Crenulilimopsis*) *crenata* ADAMS (A.). *Limopsis crenata* A. ADAMS: YOKOYAMA, 1920, pl. XVIII, figs. 18 (a-c), 17 (a-c). Loc. Koshiba (CM20666, CM20665)
- 8, 9. *Limopsis* (*Empleconia*) *cumingii* ADAMS (A.). Lectotype of (fig. 8) and paralectotype (fig. 9) of *Limopsis areolata* YOKOYAMA, 1922, pl. XVII, figs. 6, 7. Loc. Shitô (CM21643, CM21644)
10. see fig. 7
- 11 (a-c), 13 (a-c). *Limopsis* (*Limopsis*?) *adamsiana* YOKOYAMA. Lectotype (fig. 11) and paralectotype (fig. 13) of *Limopsis adamsiana* YOKOYAMA, 1920, pl. XIX, figs. 2 (a-c), 1 (a-c). Locs. Koshiba (fig. 11) and Kami-Miyata (fig. 13) (CM20679, CM20678 missing)
- 12 (a-c), 15 (a-c), 19 (a-c). *Limopsis* (*Nipponolimopsis*) *azumana* YOKOYAMA. Paratypes of *Limopsis azumana* YOKOYAMA, 1920, pl. XVIII, figs. 19 (a-c), 20 (a-c), 21 (a-c). Loc. Koshiba (all specimens missing)
13. see fig. 11
- 14 (a-c), 17 (a, b). *Limopsis* (*Limopsis*) *auritoides* YOKOYAMA. Lectotype (fig. 14) and paralectotype (fig. 17) of *Limopsis auritoides* YOKOYAMA, 1920, pl. XVIII, figs. 13 (a-c), 12 (a, b). Loc. Nojima (CM20650, CM20649)
15. see fig. 12
- 16 (a, b). *Limopsis* (*Oblimopa*) *forskalii* ADAMS (A.). *Limopsis woodwardi* A. ADAMS sensu YOKOYAMA, 1922, pl. XVII, fig. 5. Loc. Tega (CM21637)
17. see fig. 14
- 18 (a-c), 20 (a-c), 23 (a-c). *Limopsis* (*Limopsis*) *tokaiensis* YOKOYAMA. Lectotype (fig. 23) and paralectotypes (or topotypes figs. 18, 20) of *Limopsis tokaiensis* YOKOYAMA: YOKOYAMA, 1920, pl. XVIII, figs. 15 (a-c), 16 (a-c), 14 (a-c) (reproduced). Loc. Koshiba (CM20653, CM20654, CM20652)
19. see fig. 12
20. see fig. 18
- 21, 22 (a, b). *Limopsis* (*Nipponolimopsis*) *nipponica* YOKOYAMA. Lectotype (fig. 22) and paralectotype (fig. 21) of *Limopsis nipponica* YOKOYAMA, 1922, pl. XVII, figs. 16, 17. Loc. Kioroshi (CM21646, CM21647)
23. see fig. 18



## Explanation of Plate 22

### Figure

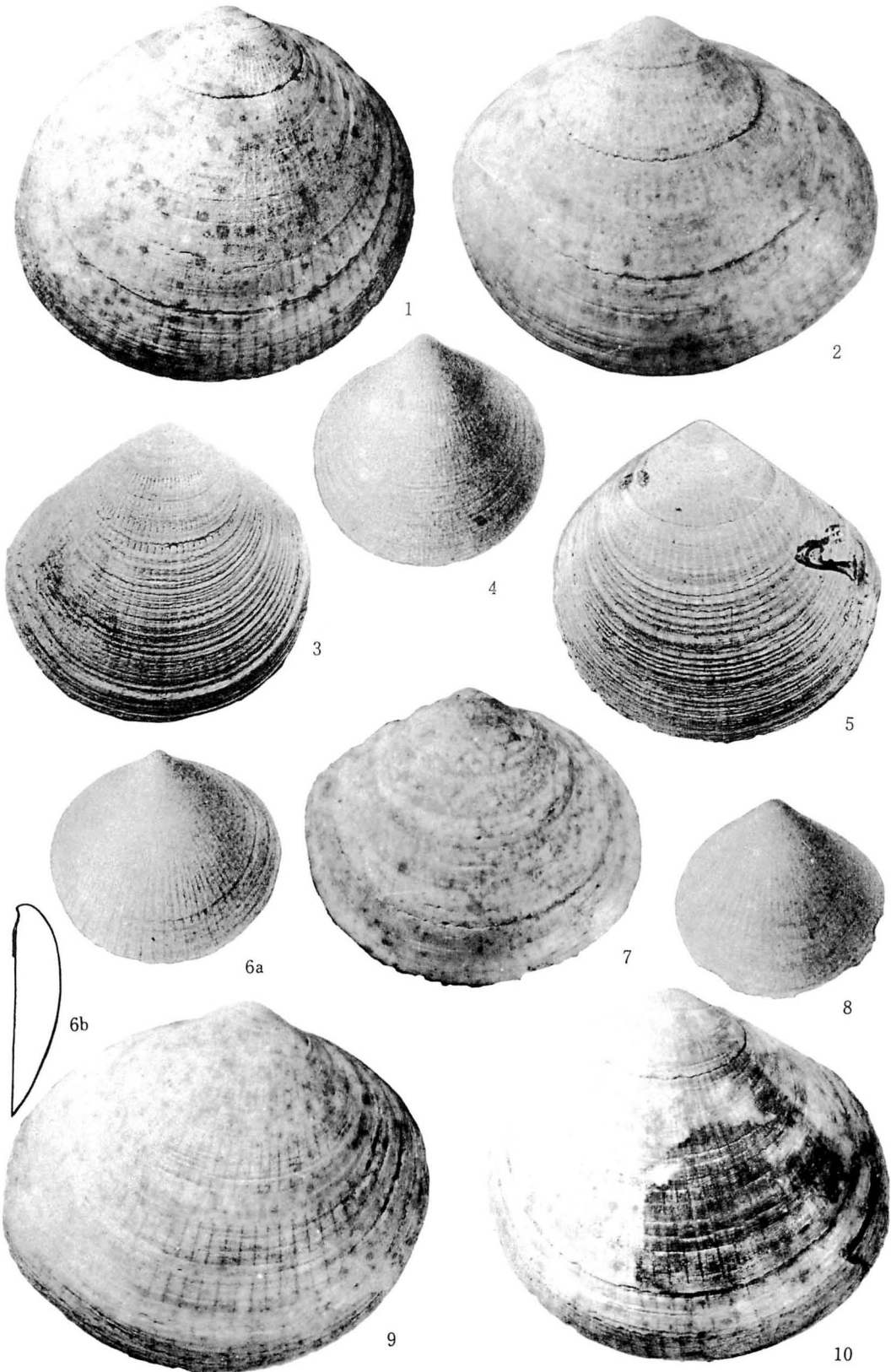
- 1 (a-c), 2 (a-c), 3 (a, b), 4 (a, b), 7 (a, b). *Glycymeris (Glycymeris) nipponica* (YOKOYAMA). Lectotype (fig. 1) and paralectotypes (figs. 2-4, 7) of *Pectunculus nipponicus* YOKOYAMA, 1920, pl. XVIII, figs. 3 (a-c), 5 (a-c), 6 (a, b), 7 (a, b), 4 (a, b). Loc. Koshiba (CM20625, CM20627 missing, CM20628 missing, CM20629, CM20626)
- 5 (a, b), 6 (a, b). *Glycymeris (Glycymeris) rotunda* (DUNKER) forma *yamakawai* (YOKOYAMA). Lectotype (fig. 6) and paralectotype (fig. 5) of *Pectunculus yamakawai* YOKOYAMA, 1922, pl. XVI, figs. 5, 4. Loc. Shitô (CM21632, CM21631)
7. see fig. 1
- 8 (a, b). *Glycymeris (Glycymeris) vestita* (DUNKER). *Pectunculus vestitus* DUNKER : YOKOYAMA, 1922, pl. XVI, fig. 3. Loc. Tega
- 9 (a, b), 10 (a, b). *Glycymeris (Tucetilla) pilsbryi* (YOKOYAMA). *Pectunculus pilsbryi* YOKOYAMA, 1922, pl. XVI, figs. 8, 9. Loc. Shitô (CM21628, CM21629)
- 11 (a, b). *Glycymeris (Glycymeris) vestita* (DUNKER) var. *Pectunculus rotundus* DUNKER sensu YOKOYAMA, 1920, pl. XVII, fig. 10 (a, b). Loc. Naganuma (CM20619 missing)
- 12 (a-c). *Glycymeris (Tucetilla) pilsbryi* (YOKOYAMA). Lectotype of *Pectunculus pilsbryi* YOKOYAMA, 1920, pl. XVIII, figs. 8 (a-c). Loc. Shimo-Miyata (CM20639)



### Explanation of Plate 23

Figure

- 1, 10. *Glycymeris (Glycymeris) vestita* (DUNKER). *Pectunculus vestitus* DUNKER: YOKOYAMA, 1922, pl. XVI, figs. 1, 2. Loc. Ôtake (CM21611, CM21615).
2. *Glycymeris (Glycymeris) vestita* (DUNKER). *Pectunculus albolineatus* LISCHKE sensu YOKOYAMA, 1922, pl. XVII, fig. 1. Loc. Ôtake (CM21610).
- 3, 5. *Glycymeris (Glycymeris) yessoensis* (SOWERBY (G. B. III)). *Pectunculus yessoensis* SOWERBY: YOKOYAMA, 1922, pl. XVI, figs. 7, 6. Loc. Shitô (CM21622 missing, CM21621).
4. *Glycymeris (Glycymeris) vestita* (DUNKER). *Pectunculus rotundus* DUNKER sensu YOKOYAMA, 1920, pl. XVII, fig. 11a. Loc. Naganuma (CM20620).
5. see fig. 3.
- 6, 8. *Glycymeris (Glycymeris) yessoensis* (SOWERBY (G. B. III)). *Pectunculus yessoensis* SOWERBY: YOKOYAMA, 1920, pl. XVIII, fig. 2a, 1a. Loc. Motowada (fig. 6) and Ôkine (fig. 8) (CM20636, CM20635).
- 7, 9. *Glycymeris (Glycymeris) vestita* (DUNKER). From specimens of *Pectunculus albolineatus* LISCHKE sensu YOKOYAMA, 1922, pl. XVII, figs. 3, 2. Loc. Ôtake (CM21614).
10. see fig. 1.

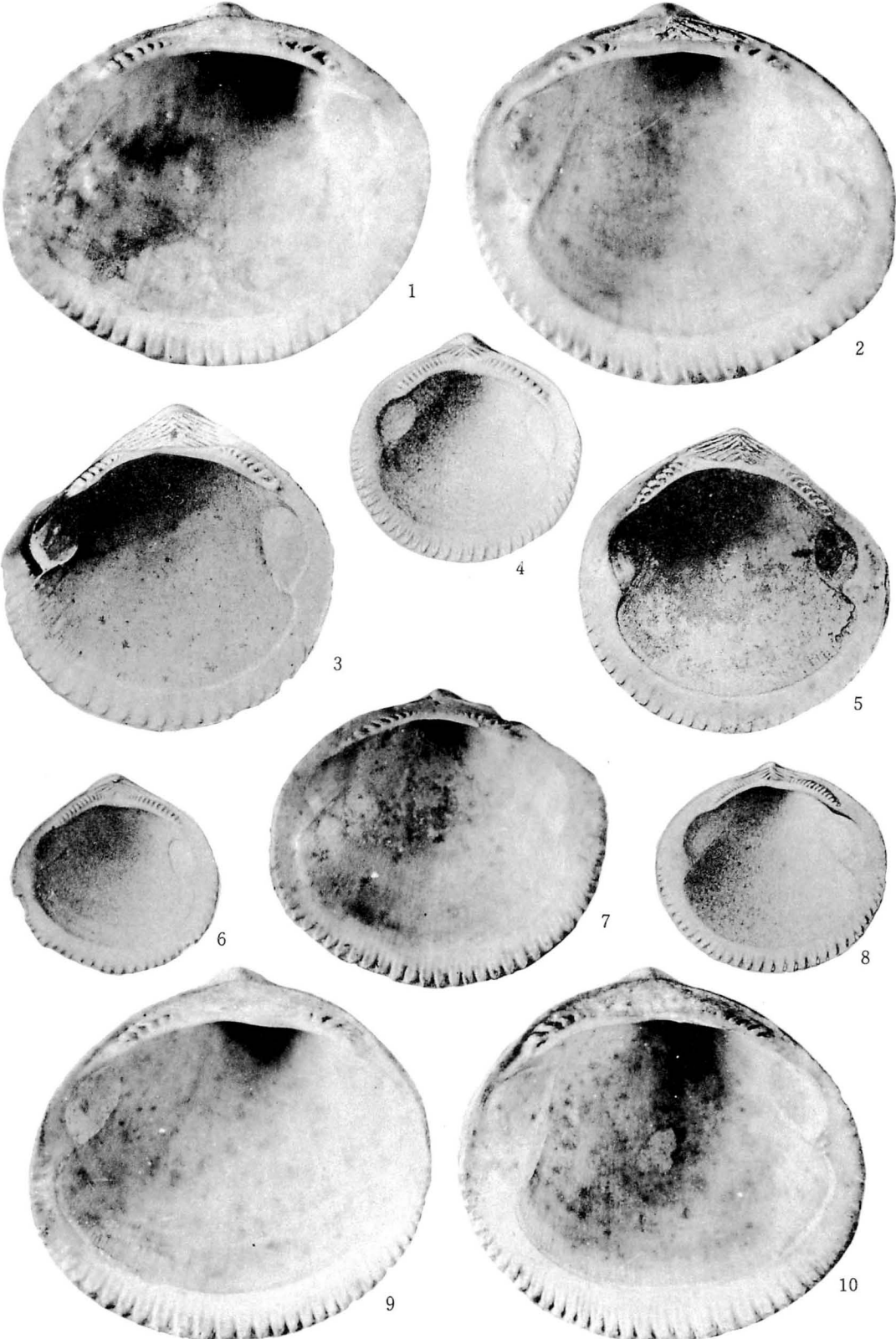


### Explanation of Plate 24

#### Figure

- 1, 2, 7. *Glycymeris (Glycymeris) vestita* (DUNKER). *Pectunculus albolineatus* LISCHKE sensu YOKOYAMA, 1922, pl. XVII, figs. 1, 2, 3. Loc. Ôtake (CM21610, CM21611, CM21612).
- 3, 5. *Glycymeris (Glycymeris) yessoensis* (SOWERBY (G.B. III)). *Pectunculus yessoensis* SOWERBY: YOKOYAMA, 1922, pl. XVI, figs. 6, 7. Loc. Shitô. (CM21621, CM21622 missing).
4. *Glycymeris (Glycymeris) vestita* (DUNKER). *Pectunculus rotundus* DUNKER sensu YOKOYAMA, 1920, pl. XVII, fig. 11b. Naganuma (CM20620).
5. see fig. 3.
- 6, 8. *Glycymeris (Glycymeris) yessoensis* (SOWERBY (G.B. III)). *Pectunculus yessoensis* SOWERBY: YOKOYAMA, pl. XVIII, figs. 1b, 2b. Loc. Ôkine (fig. 6) and Motowada (fig. 8) (CM20635, CM20636).
7. see fig. 1.
- 9, 10. *Glycymeris (Glycymeris) vestita* (DUNKER). *Pectunculus vestitus* DUNKER: YOKOYAMA, 1922, pl. XVI, figs. 2, 1. Loc. Ôtake (CM21615, CM21614).

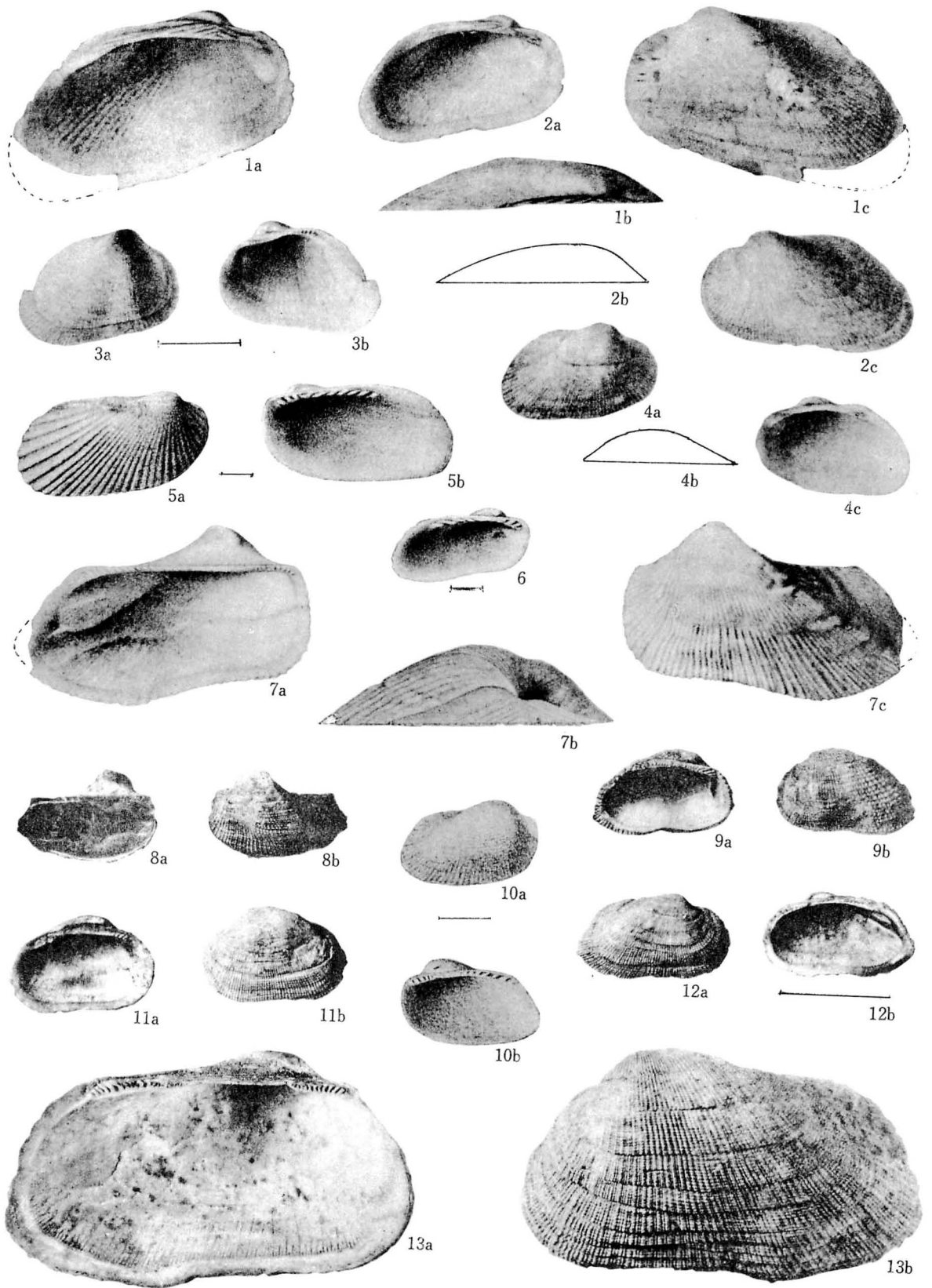




## Explanation of Plate 25

### Figure

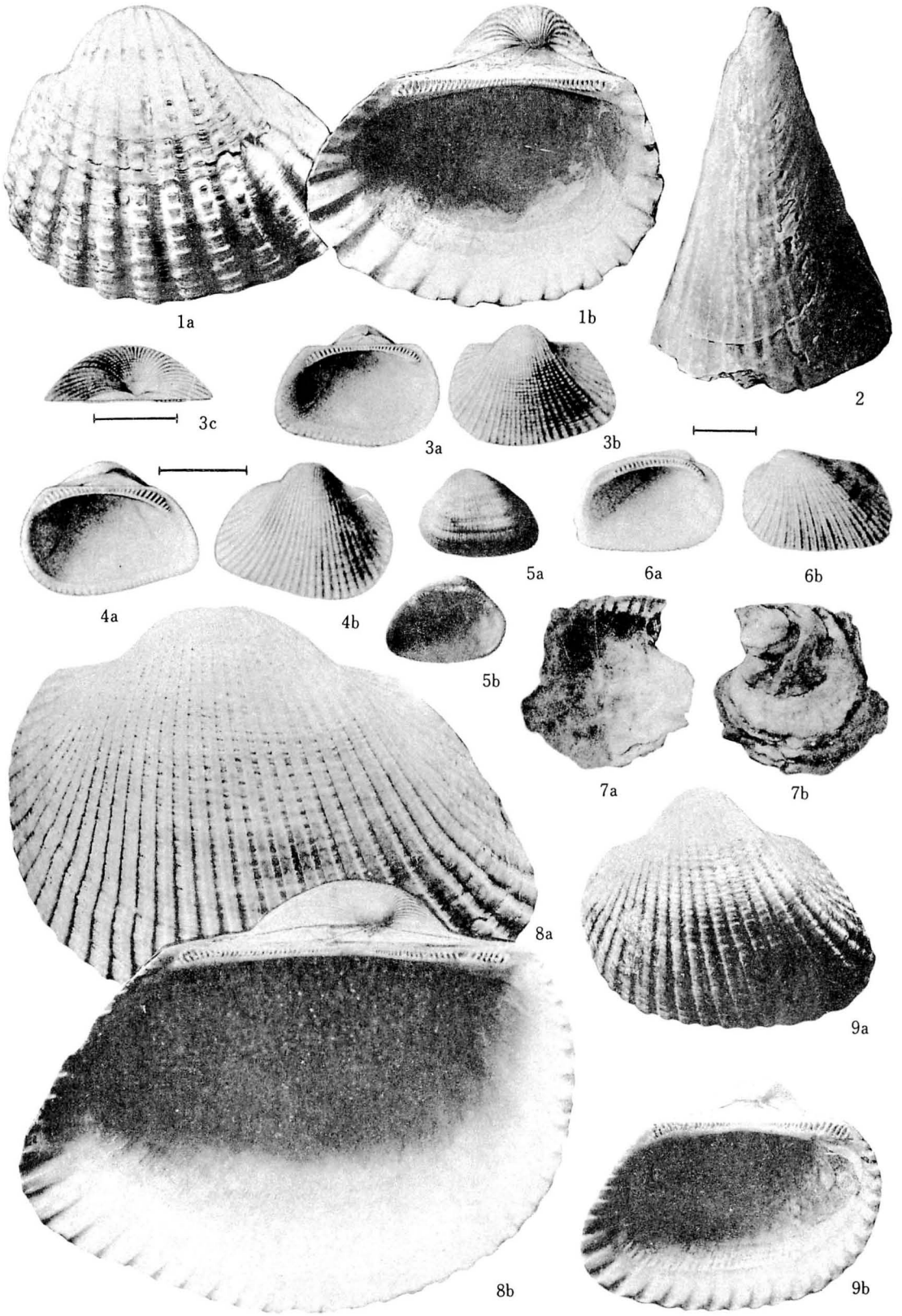
- 1 (a-c), 2 (a-c), 3 (a, b), 4 (a-c). *Pseudogrammatodon dalli obliquatus* (YOKOYAMA). Lectotype (fig. 2) and paralectotype (figs. 1, 3, 4) of *Parallelodon obliquatus* YOKOYAMA, 1920, pl. XVII, figs. 6 (a, b); pl. XVIII, figs. 9 (a-c), 10 (a-c), 11 (a-c). Locs. Shimo-Miyata (figs. 1, 2), Yokosuka (fig. 3) and Ôkine (fig. 4) (CM20642-CM20645)
- 5 (a, b), 6. *Pseudogrammatodon dalli obliquatus* (YOKOYAMA). Lectotype (fig. 5) and paralectotype (fig. 6) of *Cucullaria orientalis* YOKOYAMA, 1922, pl. XVII, figs. 8, 9. Loc. Shitô (CM21634, CM21635)
- 7 (a-c). *Arca boucardi miyatensis* OYAMA, holotype. *Arca kobeltiana* PILSBRY sensu YOKOYAMA, 1920, pl. XVII, figs. 4 (a-c). Loc. Shimo-Miyata (CM20605)
- 8 (a, b). *Arca arabica* PHILIPPI. *Arca kraussi* PHILIPPI: YOKOYAMA, 1924, pl. V, fig. 5. Loc. Numa (CM21996)
- 9 (a, b). *Acar plicata* (DILLWYN). *Arca (Barbatia) domingensis* LAMARCK sensu YOKOYAMA, 1924, pl. V, fig. 6. Loc. Numa (CM21991)
- 10 (a, b). *Barbatia (Barbatia?)* sp. *Arca stearnsii* PILSBRY sensu YOKOYAMA, 1920, pl. XVI, figs. 9 (a, b). Loc. Koshiha (CM20612)
- 11 (a, b), 12 (a, b). *Barbatia (Barbatia) stearnsi* (PILSBRY). *Arca stearnsii* PILSBRY: YOKOYAMA, 1924, pl. III, figs. 5, 6. Loc. Numa (CM21985, CM21986)
- 13 (a, b). *Barbatia (Barbatia) bicolorata* (DILLWYN). From specimen of *Arca jusca* BRUGUIÈRE: YOKOYAMA, 1924, pl. V, fig. 13. Loc. Numa (CM21993)



## Explanation of Plate 26

### Figure

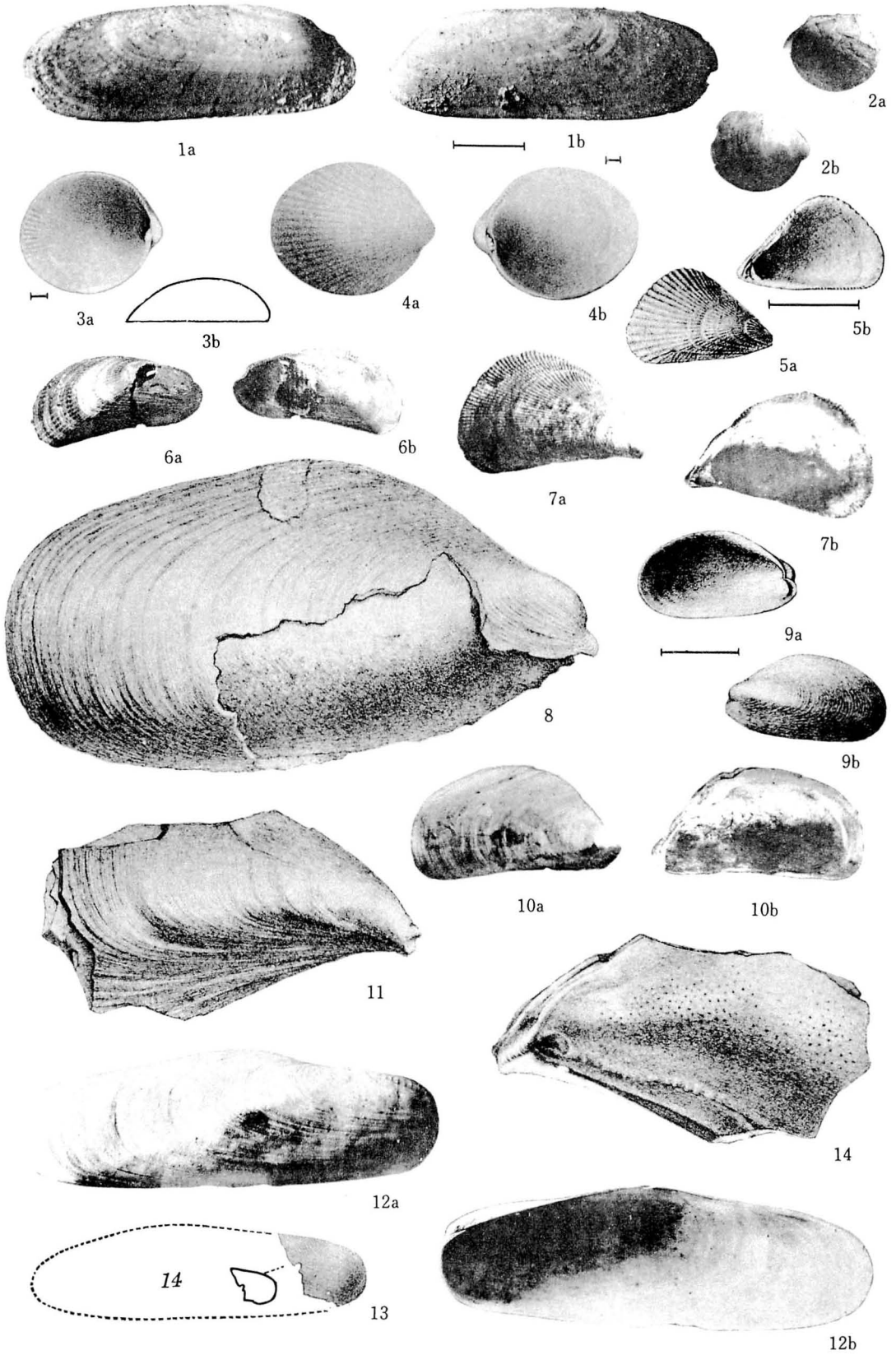
- 1 (a, b). *Anadara* (*Tegiliarca*) *granosa* (LINNAEUS). *Arca* (*Anomalocardia*) *granosa* LINNÉ. YOKOYAMA, 1922, pl. XV, fig. 4. Loc. Shisui (probably from a shell mound) (CM21591)
2. *Atrina* (*Servatrina*) *pectinata japonica* (REEVE). *Pinna japonica* REEVE: YOKOYAMA, 1922, pl. XV, fig. 8. Loc. Shitô (CM21587)
- 3 (a-c), 4 (a, b). *Striarca* (*Galactella*) *interplicata* (GRABAU & KING). *Arca symmetrica* REEVE sensu YOKOYAMA, 1920, pl. XVII, figs. 7 (a-c), 8 (a, b). Loc. Naganuma (CM20613. fig. 8 missing)
- 5 (a, b). *Striarca* (*Didimacar*) *tenebrica* (REEVE). *Arca* (*Barbatia*) *tenebrica* REEVE: YOKOYAMA, 1924, pl. V, fig. 7. Loc. Numa (CM21989)
- 6 (a, b). *Striarca* (*Didimacar*) *tenebrica* (REEVE). *Arca decussata* (SOWERBY): YOKOYAMA, 1920, pl. XVII, figs. 5 (a, b). Loc. Yokosuka (CM20614)
- 7 (a, b). *Isognomon* (*Isognomon*) *marsupiale* (RÖDING). *Perna marsupium* LAMARCK: YOKOYAMA, 1924, pl. V, fig. 8. Loc. Numa (CM21981)
- 8 (a, b). *Anadara* (*Scapharca*) *broughtoni* (SCHRENCK). *Arca inflata* REEVE: YOKOYAMA, 1922, pl. XVII, fig. 9. Loc. Ôtake (CM21596)
- 9 (a, b). *Anadara* (*Scapharca*) *subcrenata* LISCHKE: YOKOYAMA, 1922, pl. XVII, fig. 12. Loc. Ôtake (CM21602)



## Explanation of Plate 27

### Figure

- 1 (a, b). *Solemya (Acharax) japonica* DUNKER. Lectotype of *Solemya yamakawai* YOKOYAMA, 1927, pl. L, fig. 10. Loc. Ôji (CM24172)
- 2 (a, b). *Solamen diaphana* (DALL). *Crenella spectabilis* A. ADAMS sensu YOKOYAMA, 1927, pl. XLIX, fig. 3. Kuruma-chô (CM24111)
- 3 (a, b), 4 (a, b). *Crenella yokoyamai* NOMURA, apoelectotype and paratype. Lectotype (fig. 4) and paralectotype (fig. 3) of *Crenella divaricata* YOKOYAMA, 1922, pl. XV, figs. 10, 10a, 11. Loc. Shitô (CM21519, CM21520)
- 5 (a, b). *Septifer (Mytilisepta) keeni* NOMURA. *Mytilus hirsutus* LAMARCK sensu YOKOYAMA, 1920, pl. XI, figs. 16 (a, b). Loc. Yokosuka (CM20506)
- 6 (a, b). *Musculus (Musculista) senhousia* (BENSON). *Modiola senhausii* REEVE: YOKOYAMA, 1927, pl. XLIX, fig. 6. Loc. Shinagawa (CM24107)
- 7 (a, b). *Septifer (Septifer) pilosus* (REEVE). *Mytilus curvatus* DUNKER sensu YOKOYAMA, 1924, pl. III, fig. 10. Loc. Numa (CM21952)
8. *Modiolus (Modiolus) modiolus difficilis* (KURODA & HABE). *Modiola modiola* LINNÉ sensu YOKOYAMA, 1920, pl. XI, fig. 21. Loc. Shimo-Miyata (CM20511)
- 9 (a, b). *Modiolus (Modiolus) comptus* SOWERBY (G.B. III). *Modiola barbata* (LINNÉ) sensu YOKOYAMA, 1922, pl. XIV, fig. 19. Loc. Tega (CM21513)
- 10 (a, b). *Modiolus (Modiolus) nipponicus* (OYAMA), paratype. *Modiolaria semigranata* REEVE sensu YOKOYAMA, 1924, pl. III, fig. 14. Loc. Numa (CM21956)
- 11 (a, b). *Mytilus coruscus* GOULD. *Mytilus giganteus* HOLMBERG sensu YOKOYAMA, 1920, pl. XI, figs. 20 (a, b). Loc. Yokosuka (CM20509)
- 12 (a, b). *Lithophaga (Leiosolenus) lima* LAMY. *Lithophaga nasuta* (PHILIPPI) sensu YOKOYAMA, 1924, pl. III, fig. 11. Loc. Numa (CM21954)
- 13 (a, b). *Lithophaga (Labis) erimitica* KURODA & HABE. *Lithophaga zitteliana* DUNKER sensu YOKOYAMA, 1922, pl. XVII, fig. 14. Loc. Ôtake (CM21517)

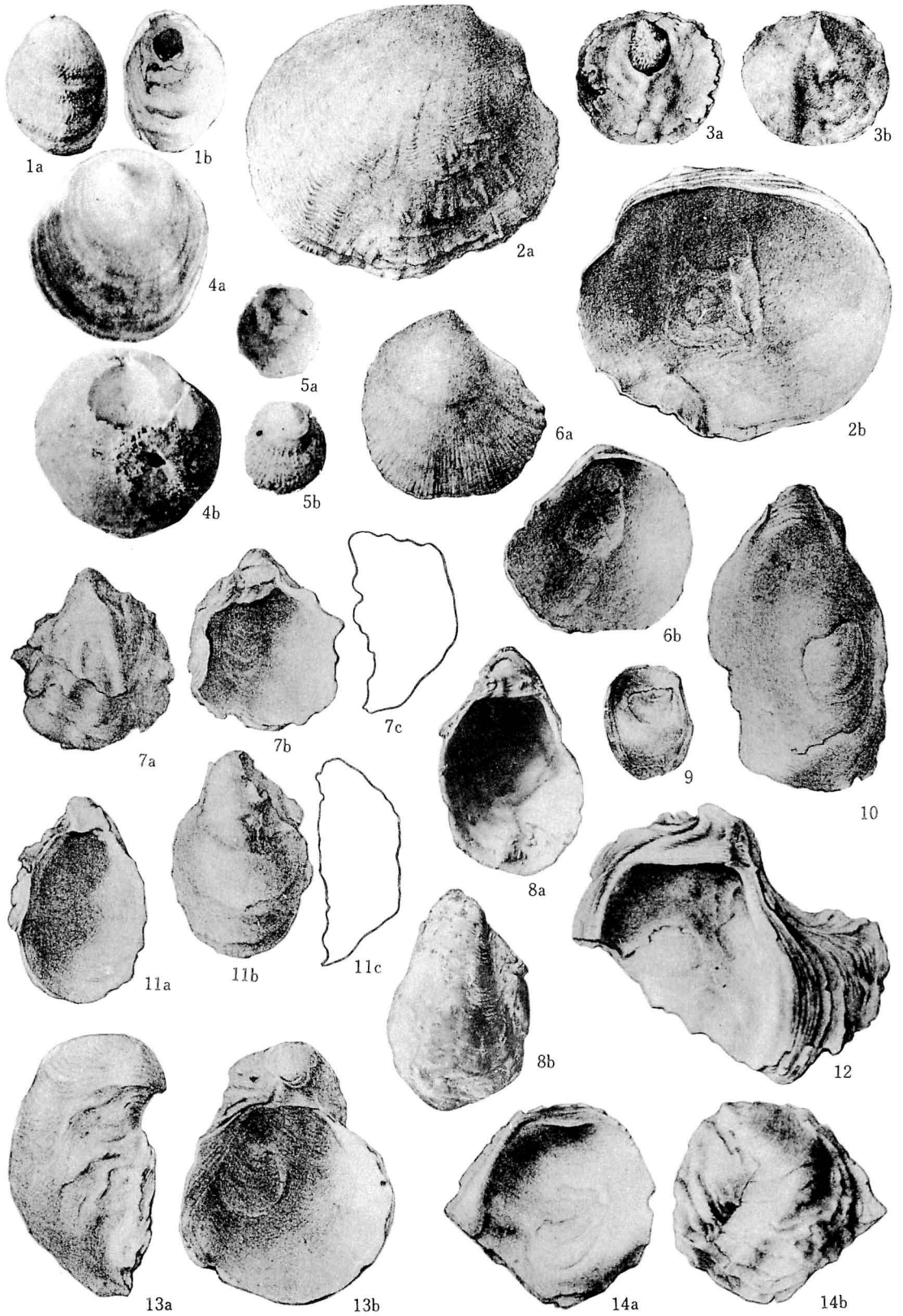


## Explanation of Plate 28

### Figure

- 1 (a, b), 5 (a, b). *Monia umbonata* (GOULD). Lectotype (fig. 1) and paralectotype (fig. 5) of *Anomia sematana* YOKOYAMA, 1922, pl. XIV, figs. 20, 21. Loc. Shitô (CM21532, CM21533)
- 2 (a, b). *Anomia cytaeum* GRAY. Lectotype of *Anomia nipponensis* YOKOYAMA, 1920, pl. XI, figs. 19 (a, b). Loc. Naganuma (CM20521)
- 3 (a, b). *Anomia cytaeum* GRAY. *Anomia cytaeum* GRAY var.: YOKOYAMA, 1920, pl. XI, figs. 17 (a, b). Loc. Koshiha (CM20516)
- 4 (a, b). *Monia umbonata* (GOULD). Lectotype of *Anomia lunata* YOKOYAMA, 1922, pl. XIV, figs. 22, 23. Loc. Ôtake (CM21528)
5. see fig. 1
- 6 (a, b). *Anomia cytaeum* GRAY var. Paratype of *Anomia nipponensis* YOKOYAMA, 1920, pl. XI, figs. 18 (a, b). Loc. Motowada (CM20520)
- 7 (a-c), 9, 10, 11 (a-c), 13 (a, b). *Pycnodonta musashiana* (YOKOYAMA). Lectotype (fig. 11) and paralectotypes (figs. 7, 9, 10, 13) of *Ostrea musashiana* YOKOYAMA, 1920, pl. XVI, figs. 1 (a-c), 4, 5, 3 (a-c), 2 (a, b). Loc. Koshiha (figs. 7, 11, 13) and Yokosuka (9, 10) (CM20599, CM20602, CM20603, CM20601, CM20600)
- 8 (a, b). *Pycnodonta musashiana* (YOKOYAMA). *Ostrea musashiana* YOKOYAMA: YOKOYAMA, 1922, pl. XV, fig. 5. Loc. Shitô (CM21583)
- 9-11. see fig. 7
- 12, 14 (a, b). *Ostrea circumpicta* PILSBRY. *Ostrea plicata* CHEMNITZ sensu YOKOYAMA, 1920, pl. XVII, figs. 3, 1 (a, b). Loc. Ôtsu (CM20598, CM20596)
13. see fig. 7
14. see fig. 12





## Explanation of Plate 29

### Figure

- 1 (a, b). *Crassostrea gigas* (THUNBERG). *Ostrea denselamellosa* LISCHKE sensu YOKOYAMA, 1920, pl. XVI, fig. 6 (a, b). Loc. Ôtsu (CM20595)
- 2 (a, b), 3 (a, b). *Ostrea folium* (LINNAEUS). *Ostrea cucullata* (BORN) sensu YOKOYAMA, 1924, pl. IV, figs. 12, 13. Loc. Numa (CM21972, CM21973)
- 4 (a, b). *Crassostrea gigas* (THUNBERG). *Ostrea plicata* CHEMNITZ sensu YOKOYAMA, 1920 (pars), pl. XVII, figs. 2 (a, b). Loc. Ôtsu (CM20597)



1a



1b



2a



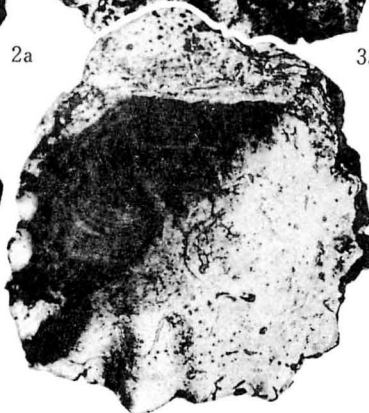
3a



4a



2b



3b



4b

### Explanation of Plate 30

Figure

- 1 (a, b). *Ostrea denselamellosa* LISCHKE. *Ostrea gigas* THUNBERG sensu YOKOYAMA, 1920 (pars), pl. XV, figs. 1, 2. Loc. Yokosuka (CM20590 missing)
- 2 (a, b). *Crassostrea gigas* (THUNBERG). *Ostrea gigas* THUNBERG: YOKOYAMA, 1920 (pars), pl. XV, figs. 3, 4. Loc. Yokosuka (CM20591 missing)



1a



2a



2b

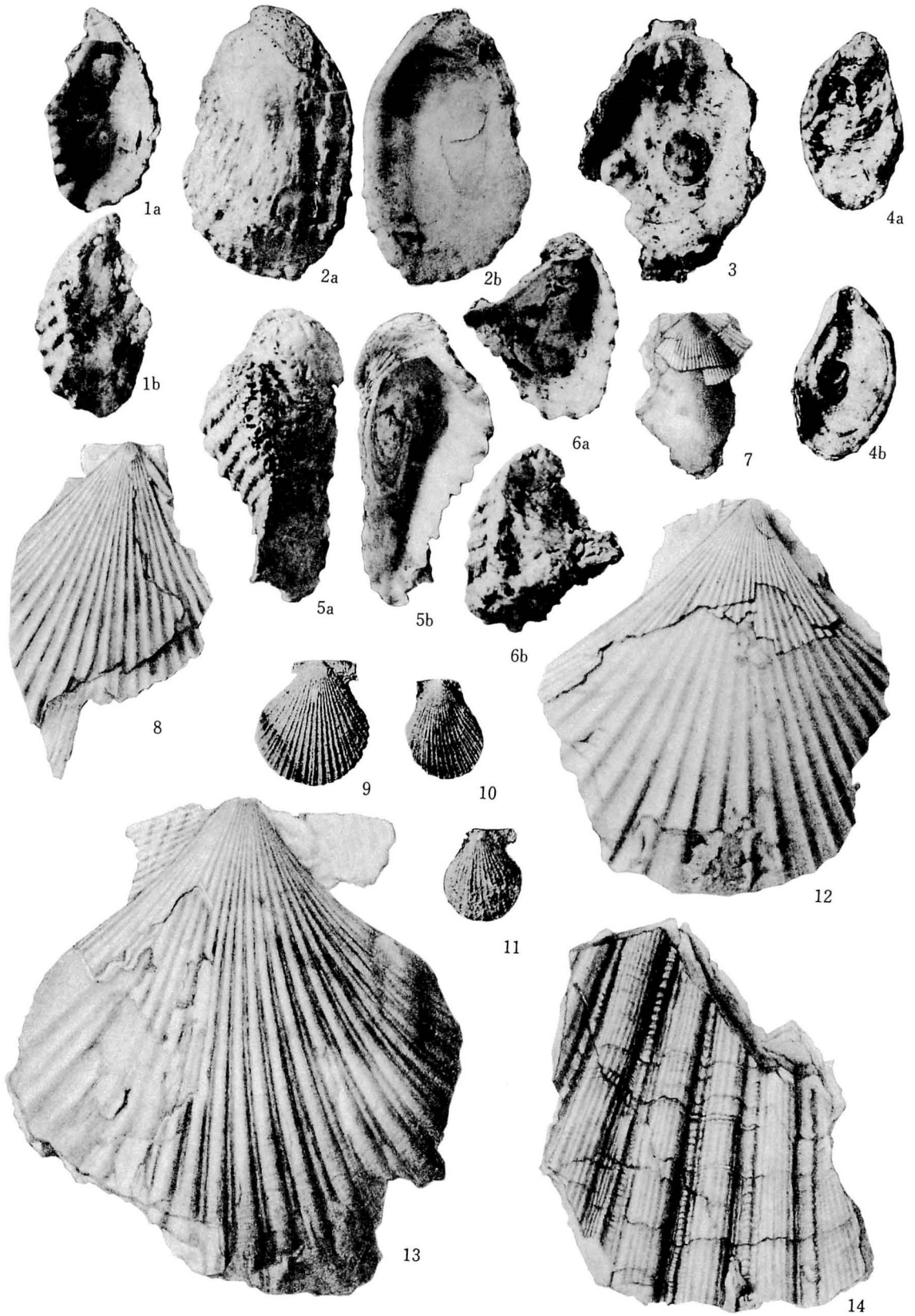


1b

### Explanation of Plate 31

#### Figure

- 1 (a, b), 2 (a, b), 5 (a, b), 6 (a, b). *Ostrea crenulifera* REEVE: YOKOYAMA, 1924, pl. V, figs. 1, 4, 3, 2. Loc. Numa (CM21976, CM21979, CM21978, CM21977)
- 3, 4 (a, b). *Plicatula horrida* DUNKER. *Plicatula irregularis* DUNKER: YOKOYAMA, 1924, pl. IV, figs. 5, 6. Loc. Numa (CM21963, CM21964)
- 5, 6. see fig. 1
- 7, 8, 12, 13, 14. *Chlamys (Chlamys) miurensis* (YOKOYAMA). Lectotype (fig. 13) and paralectotypes (figs. 7, 8, 12, 14) of *Pecten miurensis* YOKOYAMA, 1920, pl. XII, figs. 6, 5, 4, 2, 3. Loc. Zushi (CM20566, CM20565, CM20564, CM20562, CM20563)
- 9-11. *Chlamys (Veprichlamys) ousseamei* BAVAY. *Pecten irregularis* SOWERBY sensu YOKOYAMA, 1920, pl. XIII, figs. 2, 1, 3. Loc. Koshiba (CM20545, CM20546, CM20548)
- 12-14. see fig. 7

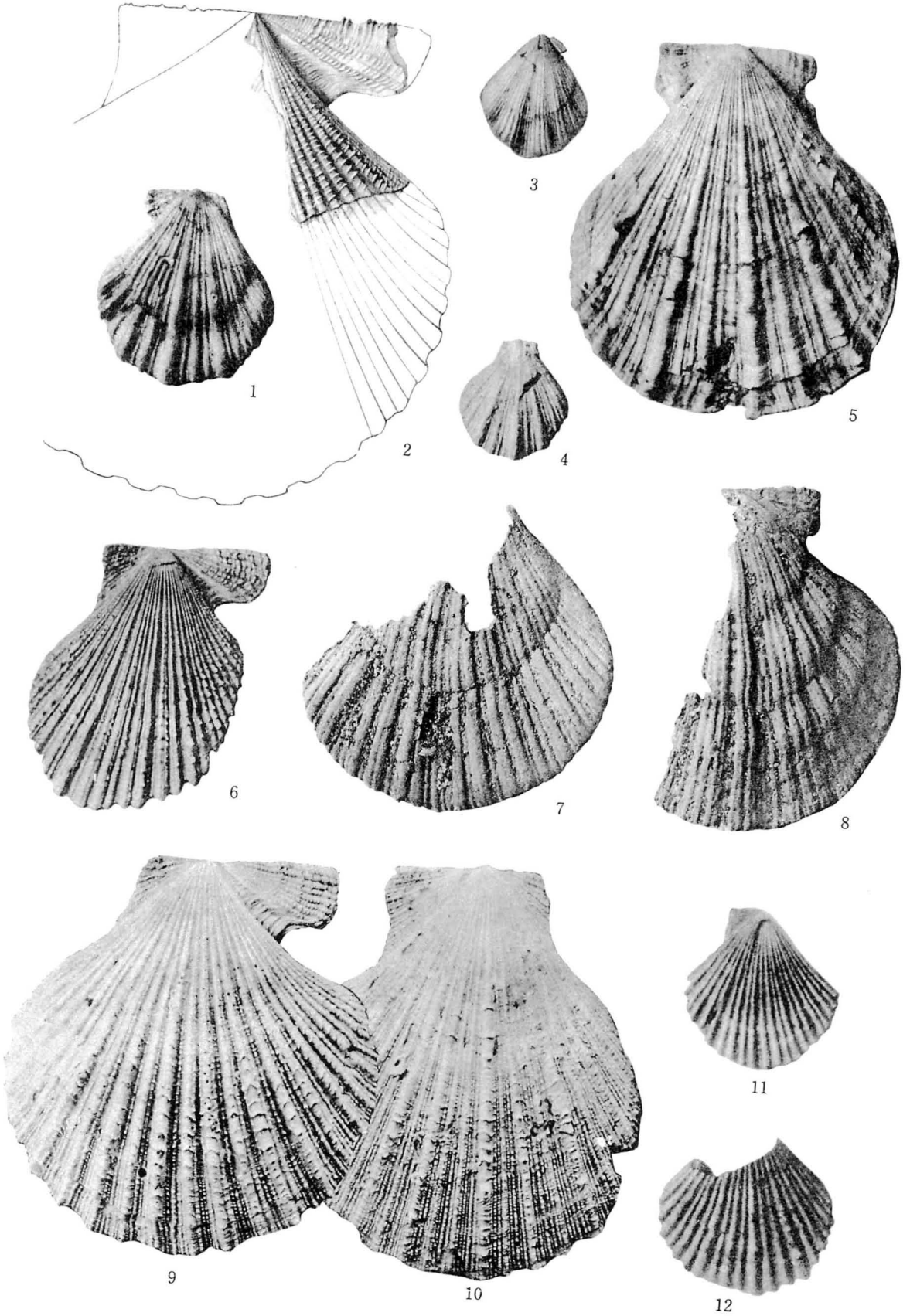


## Explanation of Plate 32

### Figure

- 1, 4. *Chlamys (Chlamys) cosibensis* (YOKOYAMA). *Pecten tigerrinus* MÜLLER : YOKOYAMA, 1920, pl. XIV, figs. 5, 6. Loc. Koshiha (CM20554, CM20555)
2. *Chlamys (Mimachlamys) nobilis* (REEVE). *Pecten crassicostatus* SOWERBY : YOKOYAMA, 1920, pl. XII, fig. 7. Loc. Naganuma (CM20545)
3. *Chlamys (Chlamys) cosibensis* (YOKOYAMA). *Pecten swiftii* BERNARDI sensu YOKOYAMA, 1920, pl. XIV, fig. 11. Loc. Koshiha (CM20553)
4. see fig. 1
- 5, 6. *Chlamys (Chlamys) farreri* (JONES & PRESTON) var. *Pecten laetus* GOULD sensu YOKOYAMA, 1920, pl. XIV, figs. 1, 2. Loc. Yokosuka (fig. 5) and Naganuma (fig. 6) (CM20543, CM20544)
- 7, 8. *Chlamys (Chlamys) cosibensis* (YOKOYAMA). Lectotype (fig. 7) and paralectotype (fig. 8) of *Pecten cosibensis* YOKOYAMA, 1911 pl. I, figs. 3, 4, reproduced YOKOYAMA, 1920, pl. XIII, figs. 8, 7. Loc. Koshiha (CM20557 missing, CM20556 missing)
- 9, 10. *Chlamys (Chlamys) farreri akazara* KURODA. *Pecten laetus* GOULD : YOKOYAMA, 1922, pl. XIV, fig. 26. Loc. Shitô (CM21553, CM21554)
- 11, 12. *Chlamys (Chlamys) squamata* (GMELIN). *Pecten squamatus* GMELIN : YOKOYAMA, 1920, pl. XIV, figs. 3, 4. Loc. Naganuma (fig. 3 missing, CM 20541 missing)

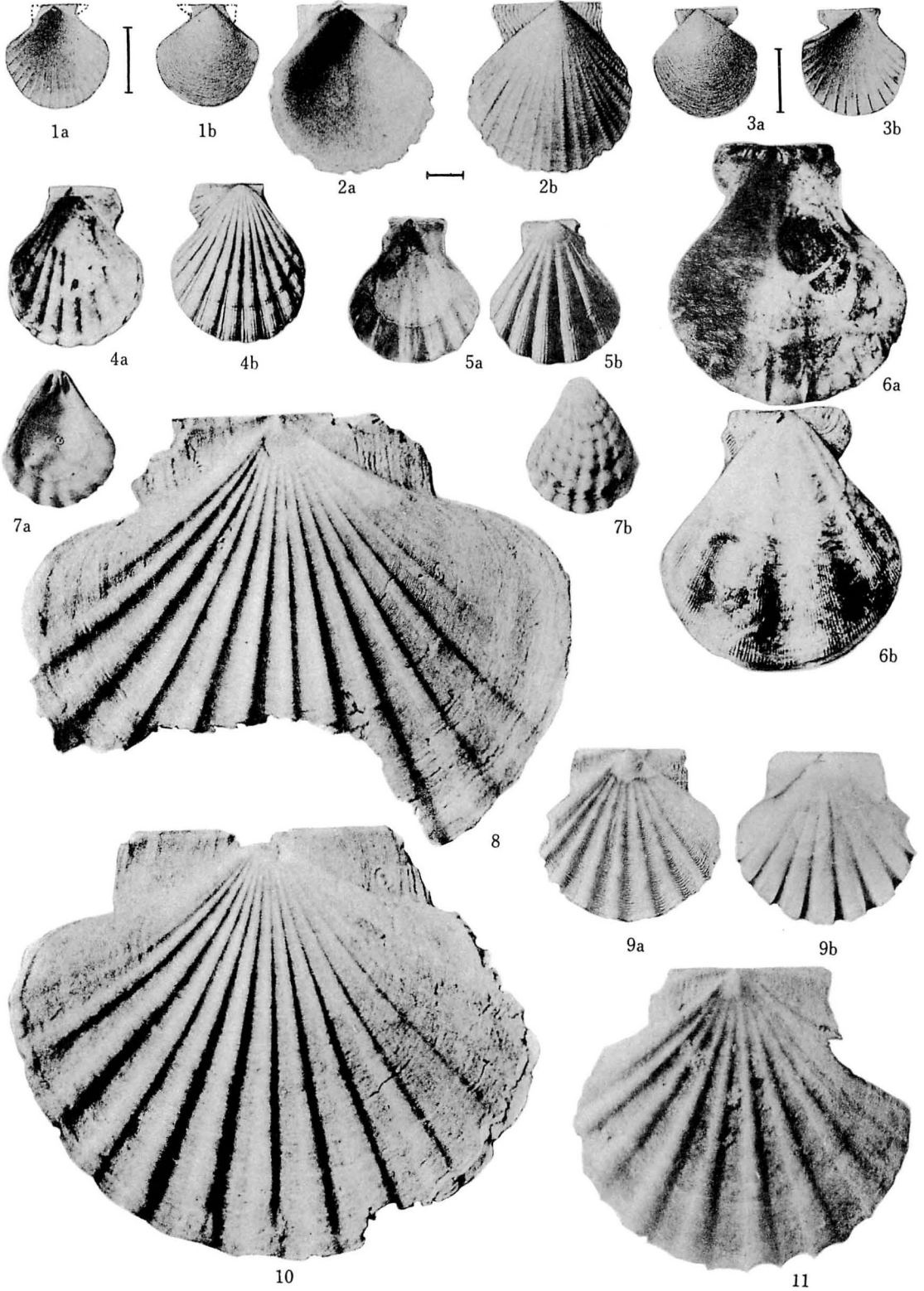




### Explanation of Plate 33

#### Figure

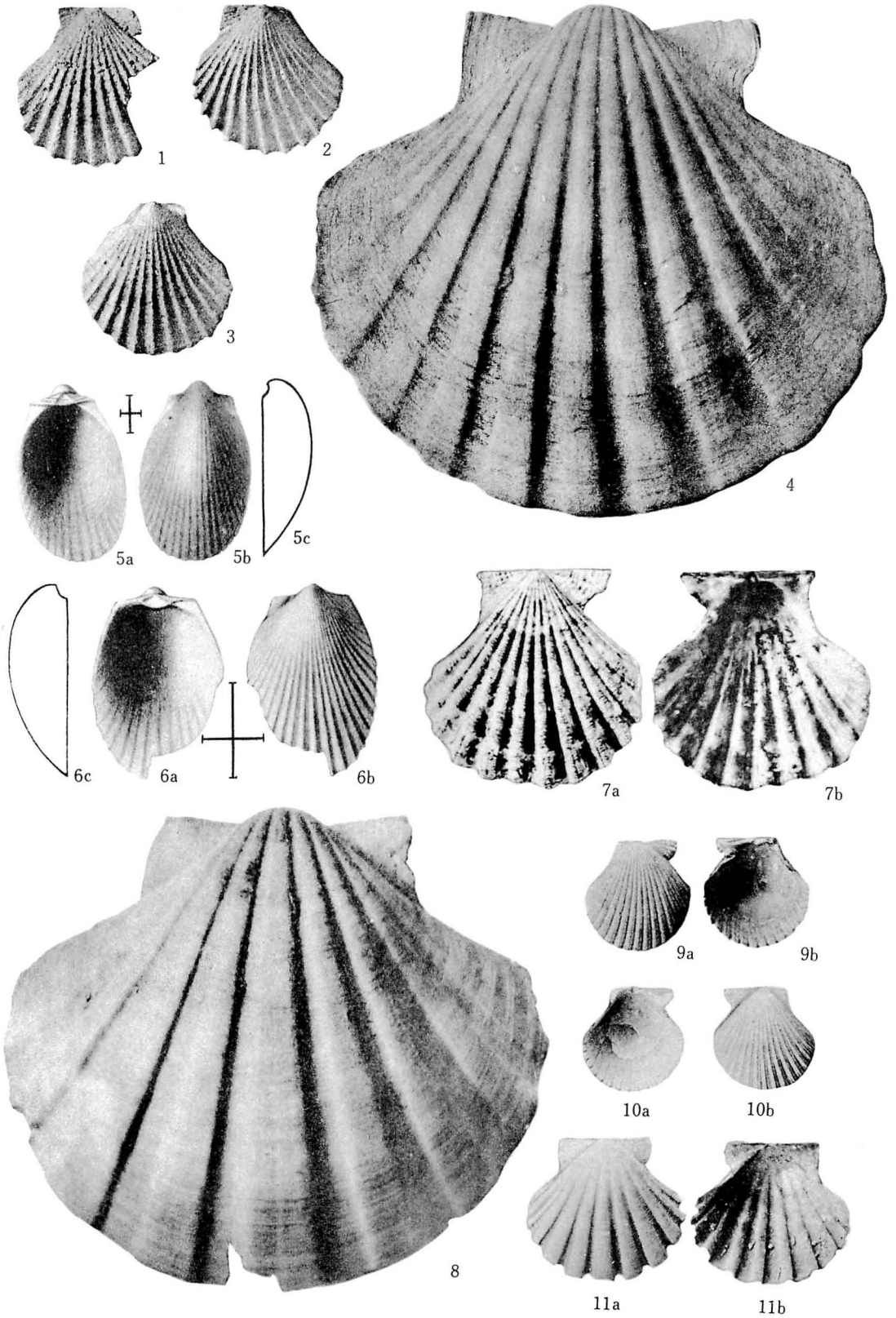
- 1 (a, b), 3 (a, b). *Polynemamussium intuscostatum* (YOKOYAMA). Lectotype of *Pecten intuscostatus* YOKOYAMA, 1920, pl. XIII, figs. 9 (a, b), 10 (a, b). Loc. Shitô (CM21573)
- 2 (a, b). *Polynemamussium intuscostatum* (YOKOYAMA). Lectotype of *Pecten tenuicostatus* YOKOYAMA, 1922, pl. XVII, fig. 15. Loc. Shitô (CM21573)
3. see fig. 1
- 4 (a, b). *Chlamys (Semipallium) quadrilirata* (LISCHKE). *Pecten quadriliratus* LISCHKE : YOKOYAMA, 1924, pl. IV, fig. 10. Loc. Numa Kôyatsu (CM21970 missing)
- 5 (a, b). *Decatopecten striatus* (SCHUMACHER). *Pecten subplicatus* SOWERBY : YOKOYAMA, 1922, pl. XV, fig. 3. Loc. Kioroshi (CM21555)
- 6 (a, b). *Decatopecten striatus* (SCHUMACHER). *Pecten plica* (LINNÉ) : YOKOYAMA, 1924, pl. IV, fig. 11. Loc. Numa (CM21968 missing)
- 7 (a, b). *Plicatula simplex* GOULD. *Plicatula cuneata* DUNKER : YOKOYAMA, 1922, pl. XIV, fig. 25. Loc. Kamenari (CM21548)
- 8, 10. *Pecten (Notovola) albicans naganumanus* YOKOYAMA. Lectotype (fig. 10) and paralectotype (fig. 8) of *Pecten naganumanus* YOKOYAMA, 1920, pl. XIII, fig. 5, 6. Loc. Naganuma (CM20587, CM20588)
9. *Pecten (Notovola) albicans albicans* (SCHRÖTER). *Pecten laqueatus* SOWERBY : YOKOYAMA, 1920, pl. XIV, fig. 9. Loc. Kami-Miyata (CM20582)
10. see fig. 8
- 11 (a, b). *Pecten (Notovola) albicans albicans* (SCHRÖTER). *Pecten excavatus* ANTON sensu YOKOYAMA, 1922, pl. XV, fig. 6. Loc. Shitô (CM21571)



### Explanation of Plate 34

#### Figure

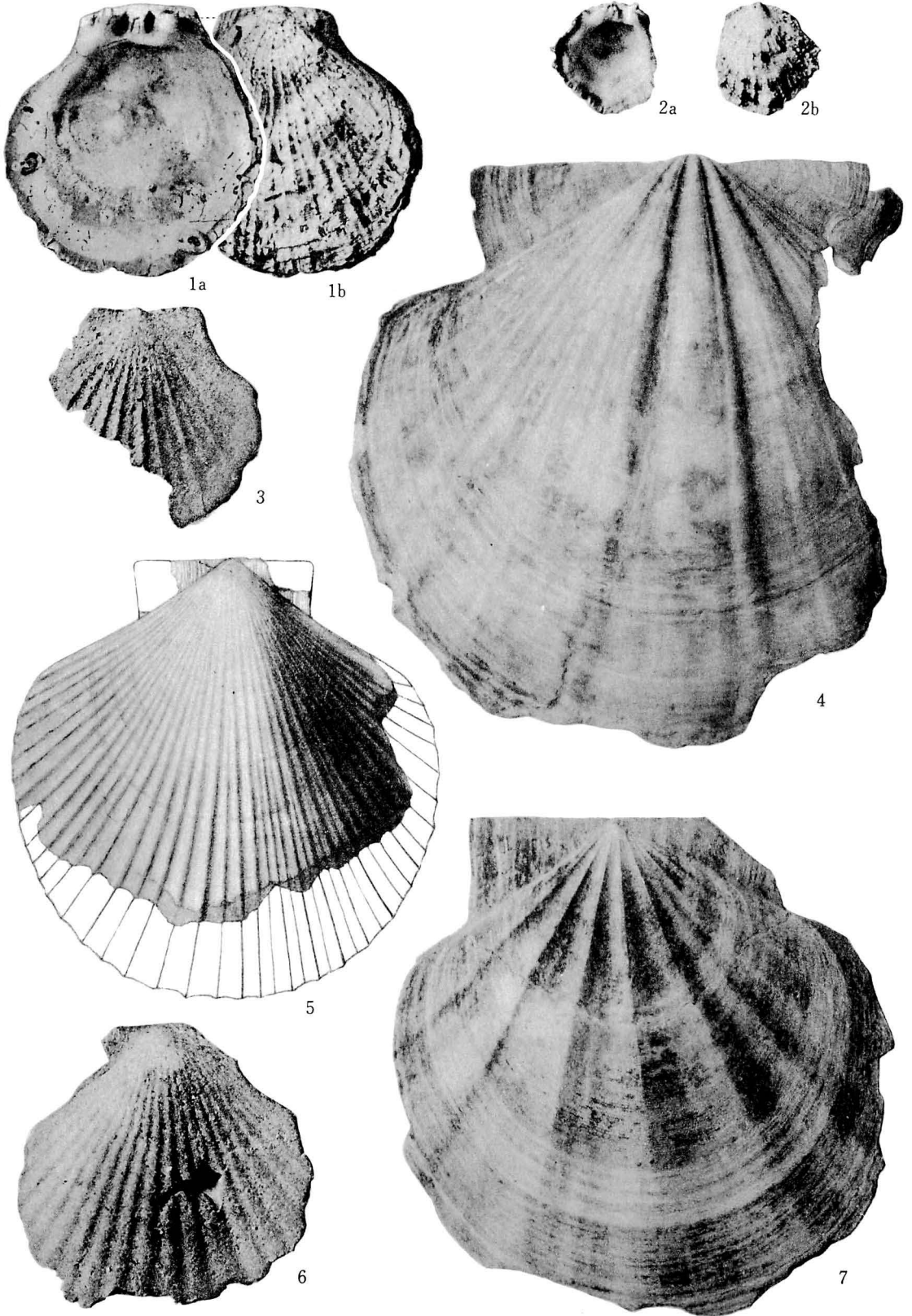
- 1-3. *Aequipecten* (*Cryptopecten*) *vesiculosus* (DUNKER). *Pecten vesiculosus* DUNKER: YOKOYAMA, 1920, pl. XIII, figs. 12, 11, 13. Loc. Koshiba (CM20550 missing, CM20549 missing, CM20551)
4. *Pecten* (*Notovola*) *albicans naganumanus* YOKOYAMA. Paratype of *Pecten naganumanus* YOKOYAMA, 1920, pl. XIII, fig. 4. Loc. Naganuma (CM20586)
- 5 (a-c). *Limatula* (*Limatula*) *kurodai* OYAMA. *Lima subauriculata* MONTAGU sensu YOKOYAMA, 1920, pl. XII, figs. 10(a-c). Loc. Kami-Miyata (20537)
- 6 (a-c). *Limatula* (*Stabilima*) *japonica* ADAMS (A.). *Lima japonica* A. ADAMS: YOKOYAMA, 1920, pl. XII, figs. 9(a-c). Loc. Nojima (CM20535)
- 7 (a, b). *Aequipecten* (*Excellichlamys*) *spectabilis* (REEVE). *Pecten spectabilis* REEVE: YOKOYAMA, 1924, pl. IV, fig. 7. Loc. Numa (CM21967 missing)
8. *Pecten* (*Notovola*) *albicans albicans* (SCHRÖTER). *Pecten laqueatus* SOWERBY: YOKOYAMA, 1920, pl. XIV, fig. 9. Loc. Kami-Miyata (CM20582)
- 9 (a, b), 10 (a, b). *Aequipecten* (*Cryptopecten*) *sematensis* OYAMA, holotype (fig. 10) and paratype (fig. 9). *Pecten tissoti* BERNARDI sensu YOKOYAMA, 1922, pl. XV, figs. 1, 2. Loc. Shitô (CM21561, CM21562)
- 11 (a, b). *Pecten* (*Notovola*) *albicans albicans* (SCHRÖTER). *Pecten excavatus* ANTON sensu YOKOYAMA, 1922, pl. XV, fig. 7. Loc. Shitô (CM21572 missing)



### Explanation of Plate 35

#### Figure

- 1 (a, b). *Spondylus cruentus* LISCHKE : YOKOYAMA, 1924, pl. V, fig. 12. Loc. Kôyatsu (CM21961)
- 2 (a, b). *Spondylus cruentus* LISCHKE : YOKOYAMA, 1922, pl. XIV, fig. 24, Loc. Ôtake
- 3, 6. *Pecten (Mizuhopecten) yessoensis* JAY var. *Pecten yessoensis* JAY : YOKOYAMA, 1920, pl. XIII, figs. 14, 15. Loc. Koshiha (CM20577, CM20578)
- 4, 6. *Pecten (Mizuhopecten) tokyoensis* TOKUNAGA. *Pecten tokyoensis* TOKUNAGA : YOKOYAMA, 1920, pl. XIV, figs. 7, 8. Loc. Naganuma (fig. 4) and Kami-Miyata (fig. 7) (CM20568, CM20569)
5. *Pecten (Yabepecten) tokunagai* YOKOYAMA. Holotype of *Pecten tokunagai* YOKOYAMA, 1911. reproduced in 1920, pl. XII, fig. 1. Loc, Koshiha (CM20567)
6. see fig. 3
7. see fig. 4

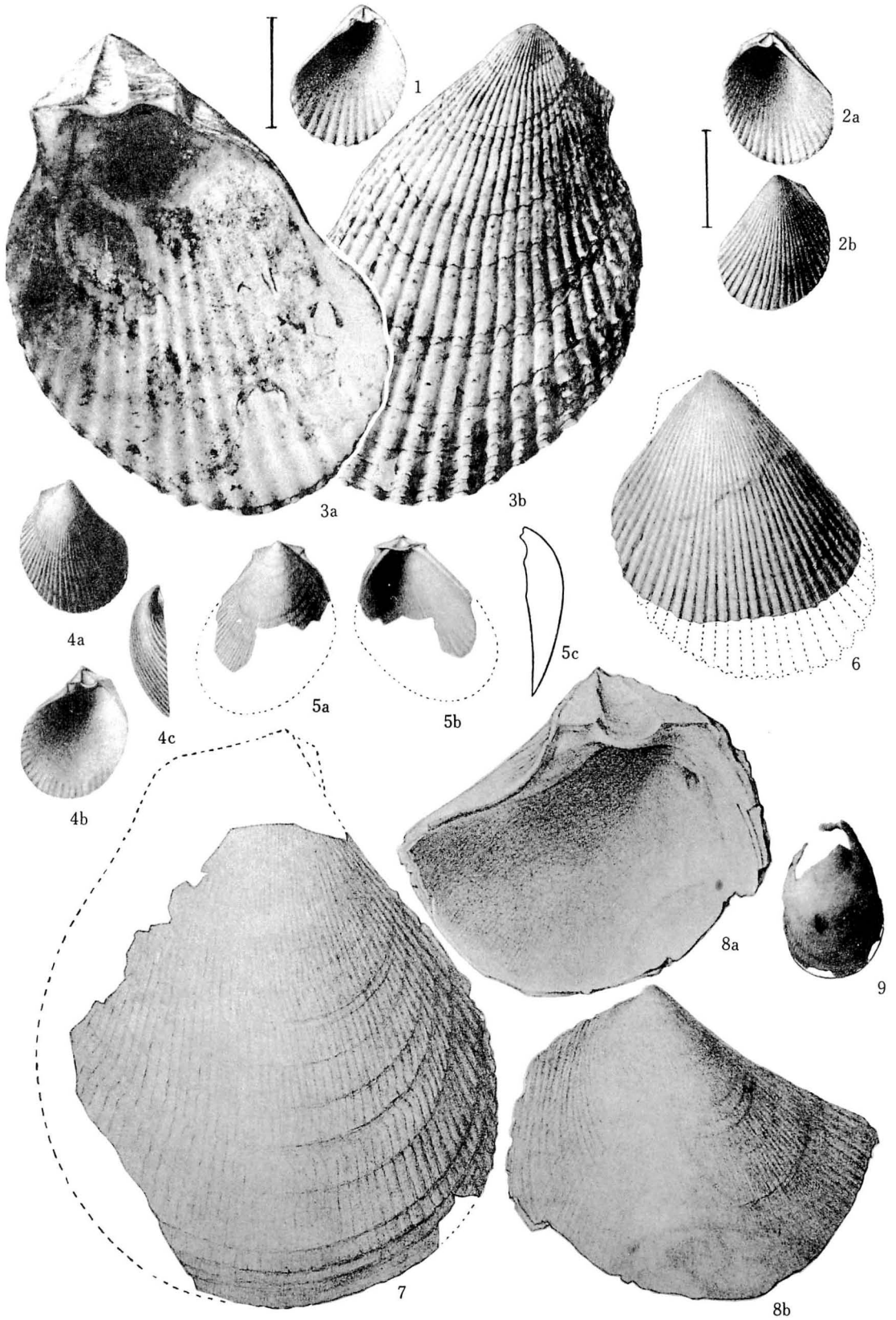


### Explanation of Plate 36

#### Figure

- 1, 2 (a, b). *Lima vulgatula* YOKOYAMA, lectotype (fig. 2) and paralectotype (fig. 1), YOKOYAMA, 1922, pl. XVII, figs. 18, 19. Loc. Shitô (CM21544, CM21545)
- 3 (a, b). *Lima sowerbyi* DESHAYES. *Lima lima* LINNÉ sensu YOKOYAMA, 1924, pl. III, fig. 13. Loc. Numa (CM21959)
- 4 (a-c). *Lima quantoensis* YOKOYAMA, lectotype, YOKOYAMA, 1920, pl. XII, fig. 11. Loc. Koshiha (CM20539)
- 5 (a-c). *Limaria hakodatensis* (TOKUNAGA). *Lima angulata* SOWERBY sensu YOKOYAMA, 1920, pl. XII, figs. 12 (a-c). Loc. Naganuma (CM20534)
6. *Lima zushiensis* YOKOYAMA, lectotype, YOKOYAMA, 1920, pl. XIII, fig. 8. Loc. Zushi (CM20532)
- 7, 8 (a, b). *Acesta goliath* SOWERBY (G. B. II). *Lima goliath* SOWERBY: YOKOYAMA, 1920, pl. XVI, figs. 7, 8 (a, b). Loc. Koshiha (CM20528, CM20529)
9. *Ctenoides lischkei* (LAMY). *Lima dunkeri* SMITH: YOKOYAMA, 1924, pl. V, fig. 19. Loc. Numa (CM21957)

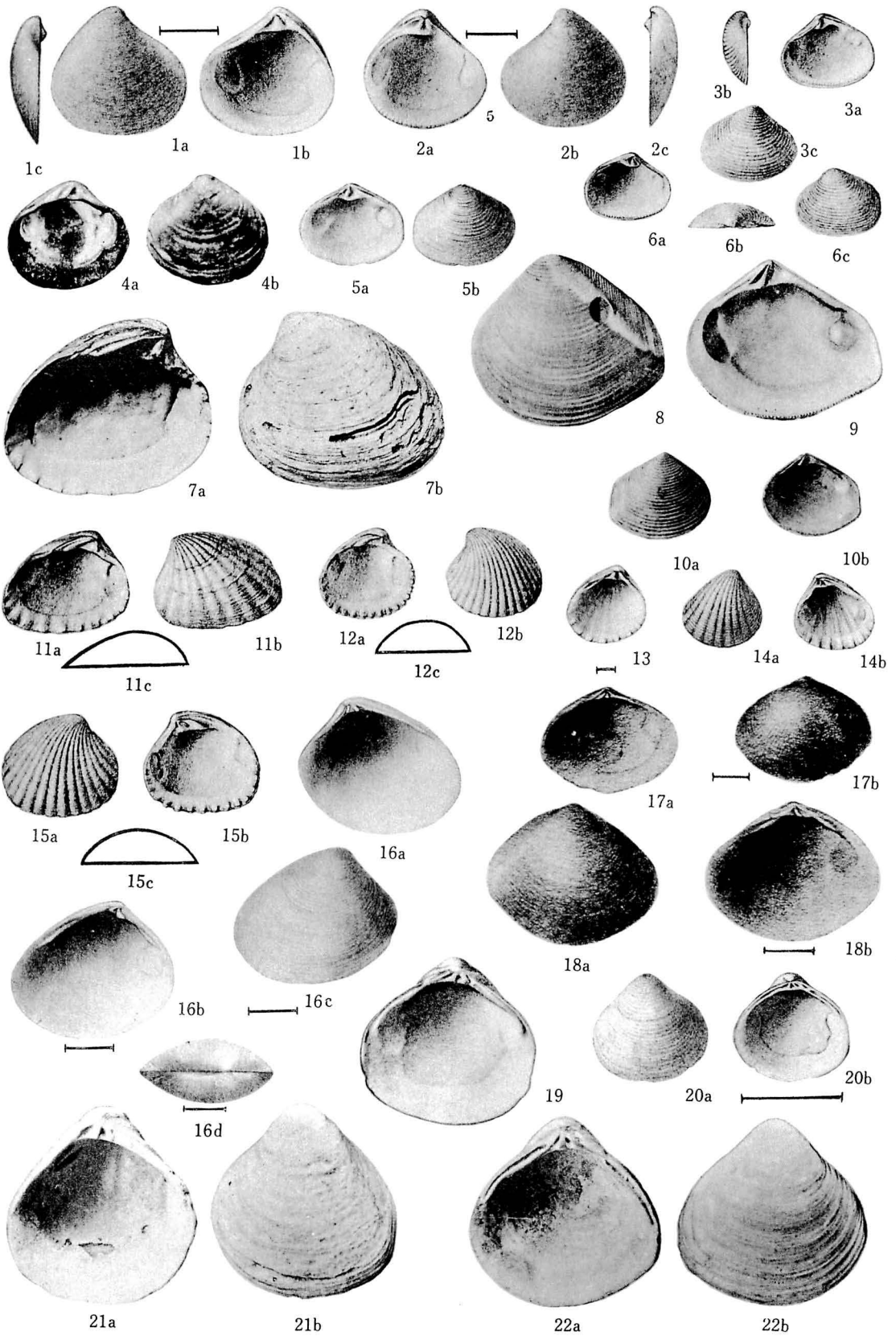




## Explanation of Plate 37

### Figure

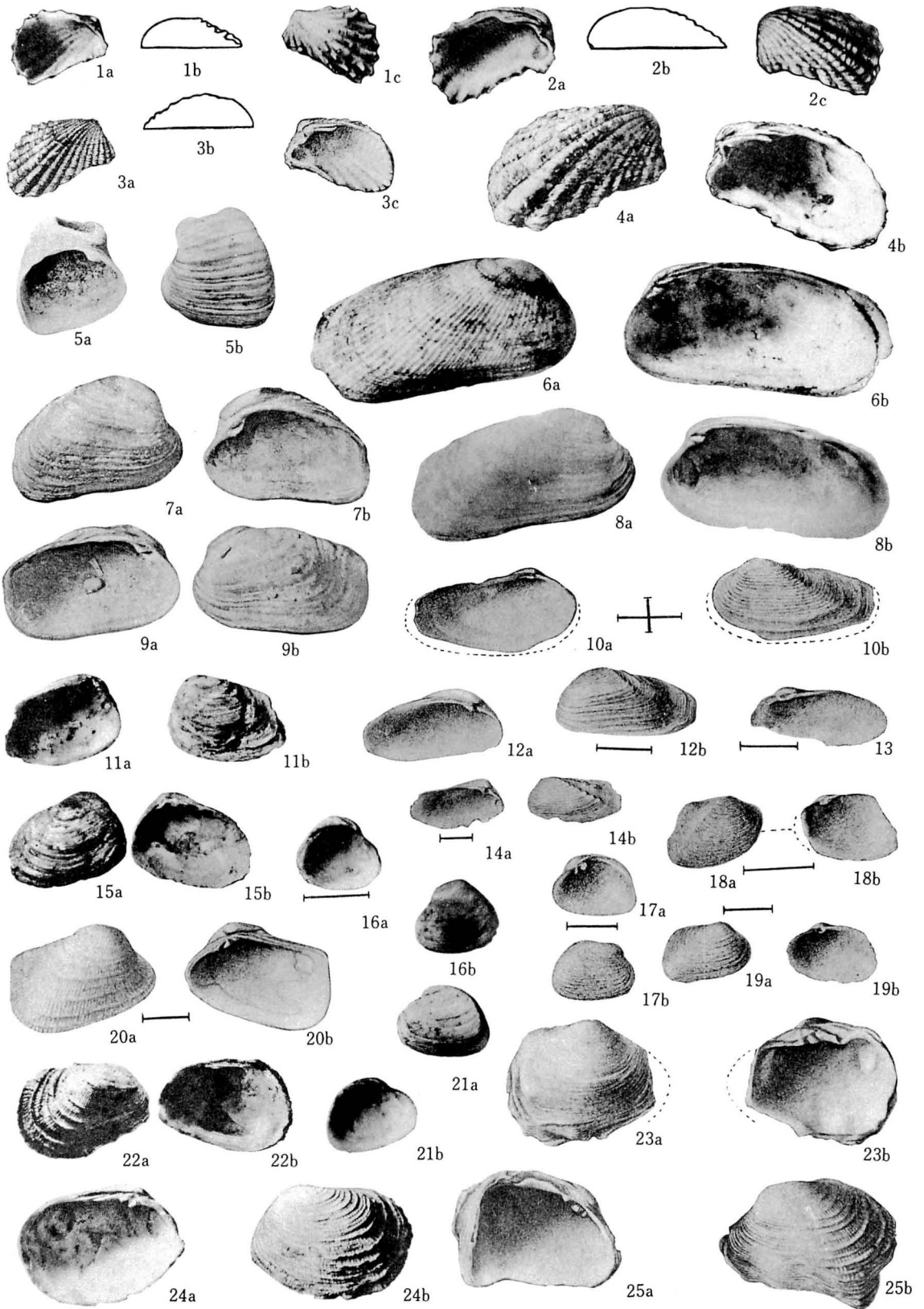
- 1 (a-c), 2 (a-c). *Astarte (Astarte) hakodatensis* YOKOYAMA. Lectotype (fig. 2) and paratype (fig. 1) of *Astarte hakodatensis* YOKOYAMA, 1920, pl. XI, figs. (a-c), 6 (a-c). Loc. Koshiha (CM20486 missing, CM 20487 missing)
- 3 (a-c), 6 (a-c). *Crassatella (Crassatina) oblongata* YOKOYAMA. Lectotype (fig. 6) and paralectotype (fig. 3) of *Crassatella oblongata* YOKOYAMA, 1920, pl. XI, figs. 8 (a-c), 9 (a-c). Loc. Koshiha (CM20497 missing, CM20498 missing)
- 4 (a, b). *Astarte (Tridonta) borealis* (SCHUMACHER). *Astarte borealis* SCHUMACHER: YOKOYAMA, 1922, pl. X, figs. 11 (a, b). Loc. Shitô (CM21458)
- 5 (a, b). *Crassatella (Eucrassatella) nana* ADAMS & REEVE. *Crassatella nana* ADAMS & REEVE: YOKOYAMA, 1922, pl. XIII, fig. 8. Loc. Kioroshi (CM21461)
6. see fig. 3
- 7 (a, b). *Venericardia (Megacardita) ferruginosa* (ADAMS & REEVE). *Venericardia cipangoana* YOKOYAMA: YOKOYAMA, 1922, pl. XIII, fig. 4. Loc. Ôtake (CM21445)
- 8, 9. *Crassatella (Eucrassatella) nana* ADAMS & REEVE. *Crassatella heteroglypta* PILSBRY sensu YOKOYAMA, 1920, pl. XI, figs. 10, 11. Loc. Naganuma (CM20493 missing, CM20494)
- 10 (a, b). *Crassatella (Eucrassatella) nana* ADAMS & REEVE: YOKOYAMA, 1927, pl. XLIX, fig. 11. Loc. Shinagawa
- 11 (a-c). *Venericardia (Megacardita) ferruginosa* (ADAMS & REEVE). Lectotype of *Venericardia cipangoana* YOKOYAMA, 1920, pl. XI, figs. 2 (a-c). Loc. Naganuma
- 12 (a-c), 15 (a-c). *Venericardia (Cyclocardia) ferruginea* ((ADAMS) CLESSIN). *Venericardia ferruginea* A. ADAMS: YOKOYAMA, 1920, pl. XI, figs. 3 (a-c), 4 (a-c). Loc. Kikkozan (CM20475 missing, CM20476)
- 13, 14 (a, b). *Carditella (Carditellopsis) toneana* (YOKOYAMA). Lectotype (fig. 14) and paralectotype (fig. 13) of *Venericardia toneana* YOKOYAMA, 1922, pl. XIII, figs. 7, 6. Loc. Shitô (CM21455, CM21454)
15. see fig. 12.
- 16 (a-e). *Cadella delta* (YOKOYAMA). Lectotype of *Tellina delta* YOKOYAMA, 1922, pl. X, figs. 8-10. Loc. Ôtake (CM21297-CM21299)
- 17 (a, b), 18 (a, c). *Arcopagia (Punipagia) radiatolineata* (YOKOYAMA). Lectotype (fig. 18) and paralectotype (fig. 17) of *Tellina radiatolineata* YOKOYAMA, 1924, pl. II, figs. 19, 18. Loc. Numa (CM21913, CM21912)
- 19, 20 (a, b). *Corbicula (Corbicula) japonica* PRIME. Lectotype (fig. 20) and paralectotype (fig. 19) of *Corbicula kobelti* YOKOYAMA, 1922, pl. XIII, figs. 19, 18. Loc. Shitô (CM21469, CM21468)
- 21 (a, b), 22 (a, b). *Corbicula (Corbicula) japonica* PRIME. Lectotype (fig. 21) and paralectotype (fig. 22) of *Corbicula sandaiformis* YOKOYAMA, 1922, pl. XIII, figs. 14, 15. Loc. Shitô (CM21463, CM21464)



## Explanation of Plate 38

### Figure

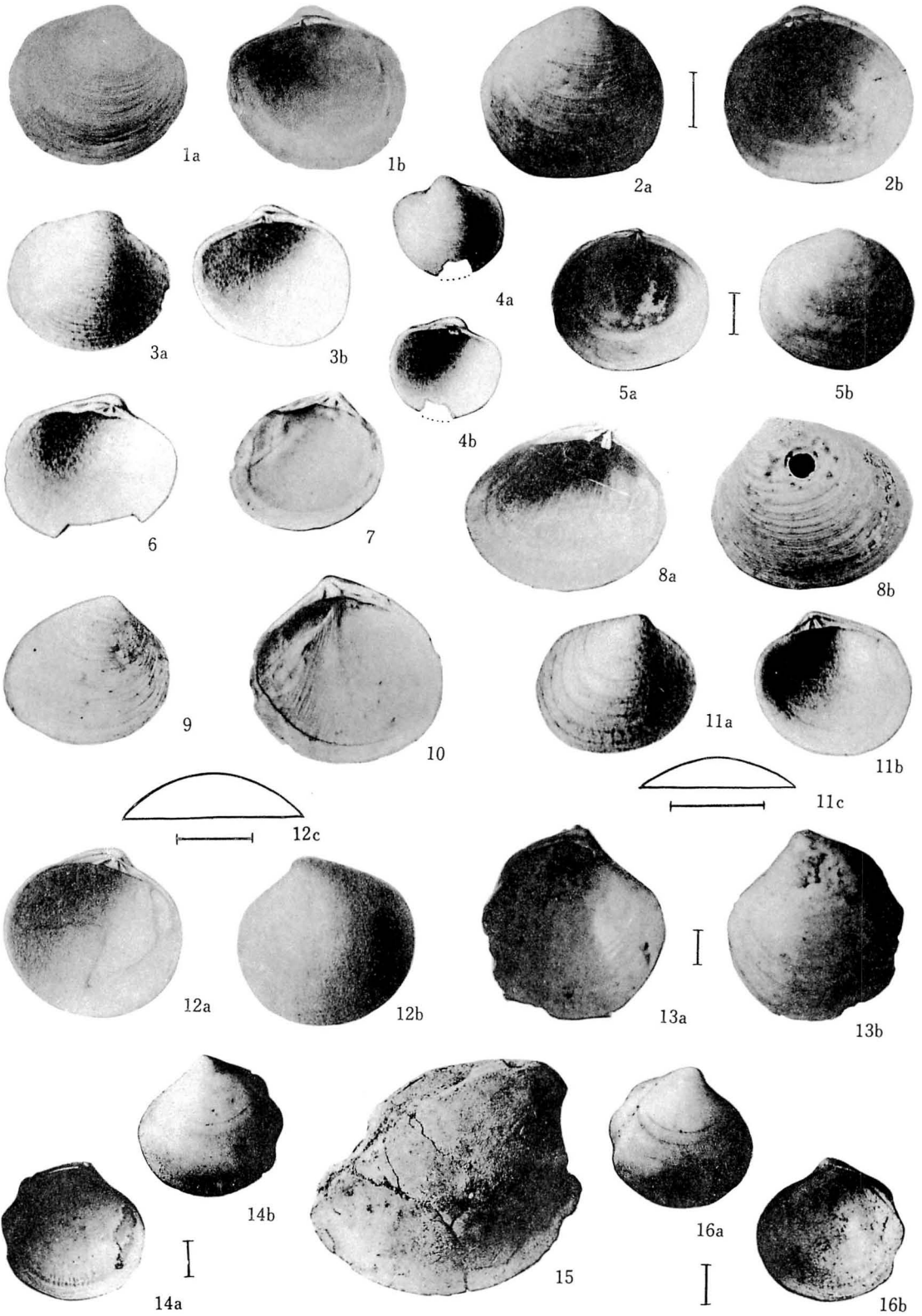
- 1 (a-c). *Cardita nodulosa* LAMARCK. *Cardita variegata* BRUGUIÈRE sensu YOKOYAMA, 1920, pl. X, figs. 16 (a-c). Loc. Shimo-Miyata (CM 20468)
- 2 (a-c), 3 (a-c). *Cardita leana* DUNKER. *Cardita cumingiana* DUNKER : YOKOYAMA, 1920, pl. X, figs. 15 (a, b); pl. XI, figs. 1 (a-c). Loc. Yokosuka (CM20469, CM20470)
- 4 (a, b). *Cardita leana* DUNKER. *Cardita crassicostata* LAMARCK sensu YOKOYAMA, 1924, pl. III, fig. 12. Loc. Numa (CM21947)
- 5 (a, b). *Trapezium* (*Neotrapezium*) *liratum* (REEVE). Holotype of *Trapezium ventricosum* YOKOYAMA, 1922, pl. XIII, figs. 1 (a, b). Loc. Ôtake (CM21477)
- 6 (a, b). *Coralliophaga coralliophaga* (GMELIN). *Coralliophage coralliophaga* CHEMNITZ : YOKOYAMA, 1924, pl. III, fig. 9. Loc. Numa (CM21949)
- 7 (a, b). *Trapezium* (*Neotrapezium*) *liratum* (REEVE). Lectotype of *Trapezium nipponicum* YOKOYAMA, 1922, pl. XIII, fig. 17. Loc. Ôtake (CM21475)
- 8 (a, b). *Trapezium* (*Neotrapezium*) *japonicum* PILSBRY. *Coralliophaga coralliophaga* (CHEMNITZ) sensu YOKOYAMA, 1922, pl. XIV, fig. 5. Loc. Shitô (CM21472)
- 9 (a, b). *Trapezium* (*Neotrapezium*) *liratum* (REEVE). *Trapezium liratum* REEVE : YOKOYAMA, 1922, pl. XIII, fig. 16. Loc. Ôtake (CM21478)
- 10 (a, b), 13 (a, b). *Hiatella orientalis* (YOKOYAMA). Lectotype (fig. 10) and paralectotype (fig. 13) of *Saxicava orientalis* YOKOYAMA, 1920, pl. VII, figs. 2 (a, b). Loc. Ôtsu (CM20335)
- 11 (a, b), 15 (a, b). *Hiatella orientalis* (YOKOYAMA). Lectotype (fig. 15) and paralectotype (fig. 11) of *Petricola awana* YOKOYAMA, 1924, pl. III, fig. 1; pl. II, fig. 12. Loc. Numa (CM21917, CM21916)
- 12 (a, b), 14 (a, b). *Hiatella orientalis* (YOKOYAMA). Paratype of *Trapezium nipponicum* YOKOYAMA, 1922, pl. VI, figs. 13, 12. Loc. Shitô (CM21474, CM21473)
13. see fig. 10
14. see fig. 12
15. see fig. 11
- 16 (a, b), 21 (a, b). *Anisodonta* (*Furcella*) *gouldi* (ADAMS (A.)). *Basterotia gouldii* (A. ADAMS) : YOKOYAMA, 1924, pl. III, figs. 2, 3. Loc. Numa
- 17 (a, b). *Anisodonta* (*Furcella*) *gouldi* (ADAMS (A.)). *Basterotia gouldii* (A. ADAMS) : YOKOYAMA, 1920, pl. VII, figs. 7 (a, b). Loc. Ôtsu (CM20348)
- 18 (a, b), 19 (a, b). *Anisodonta* (*Anisodonta*) *recluzi* (ADAMS (A.)). Lectotype (fig. 19) and paralectotype (fig. 18) of *Basterotia trapezium* YOKOYAMA, 1920, pl. VII, figs. 8 (a, b), 9 (a, b). Loc. Ôtsu (CM20349, CM20350)
- 20 (a, b). *Notirus mitis* (DESHAYES). *Venerupis irus* (LINNÉ) sensu YOKOYAMA, 1920, pl. IX, figs. 1 (a, b). Loc. Yokosuka (CM20407)
21. see fig. 16
- 22 (a, b). *Notirus ishibashianus* (KURODA & HABE), lectotype. *Venerupis irus* (LINNÉ) sensu YOKOYAMA, 1924, pl. II, fig. 23. Loc. Numa (CM21925)
- 23 (a, b). *Petricola* (*Pseudoirus*) *mirabilis* (DESHAYES). *Venerupis insignis* DESHAYES sensu YOKOYAMA, 1920 (pars), pl. IX, figs. 2 (a, b). Loc. Ôtsu (CM20410)
- 24 (a, b). *Notirus ishibashianus* (KURODA & HABE). *Venerupis insignis* DESHAYES sensu YOKOYAMA, 1924, pl. III, fig. 4. Loc. Numa (CM21927)
- 25 (a, b). *Notirus ishibashianus* (KURODA & HABE). *Venerupis insignis* DESHAYES sensu YOKOYAMA, 1920 (pars), pl. IX, figs. 3 (a, b). Loc. Yokosuka (CM20411)



### Explanation of Plate 39

#### Figure

- 1 (a, b). *Cycladicama cumingi* (HANLEY). *Diplodonta semiaspera* PHILIPPI sensu YOKOYAMA, 1922, pl. XIV, fig. 2. Loc. Shisui (CM21428)
- 2 (a, b), 5 (a, b). *Cycladicama lunaris* (YOKOYAMA). Lectotype (fig. 2) and paralectotype (fig. 5) of *Diplodonta lunaris* YOKOYAMA, 1927, pl. L, figs. 6, 5. Loc. Shinagawa (CM24070, CM24069)
- 3 (a, b), 6. *Cycladicama semiasperoides* (NOMURA), apolectotype (fig. 3) and paralectotype (fig. 6). *Diplodonta semiaspera* PHILIPPI sensu YOKOYAMA, 1920, pl. X, figs. 2 (a, b), 3. Loc. Koshiba (CM20444, CM20445)
- 4 (a, b). *Diplodonta* (*Phlytiderma*) *japonica* PILSBRY. *Diplodonta japonica* PILSBRY: YOKOYAMA, 1920, pl. X, figs. 4 (a, b). Loc. Nagauuma (CM20448)
5. see fig. 2
6. see fig. 3
- 7, 9, 10. *Diplodonta* (*Felaniella*) *usta* (GOULD). *Diplodonta usta* GOULD: YOKOYAMA, 1920, pl. IX, figs. 15, 14, 16. Loc. Kami-Miyata
- 8 (a, b). *Diplodonta* (*Felaniella*) *usta* (GOULD). *Diplodonta usta* GOULD: YOKOYAMA, 1922, pl. XIII, fig. 3. Loc. Ôtake (CM21419)
- 9, 10. see fig. 7
- 11 (a-c). *Diplodonta* (*Diplodonta*) *gouldi* YOKOYAMA. Lectotype of *Diplodonta gouldi* YOKOYAMA, 1920, pl. X, figs. 5 (a-c). Loc. Kami-Miyata (CM20449)
- 12 (a-c). *Lajonkairia divaricata* (LISCHKE). *Lucinopsis divaricata* LISCHKE: YOKOYAMA, 1922, pl. X, figs. 7, 7a. Loc. Shitô (CM21329)
- 13 (a, b). *Thyasira* (*Thyasira*) *tokunagai* KURODA & HABE. *Thyasira gouldii* (PHILIPPI): sensu YOKOYAMA, 1927, pl. L, fig. 9. Loc. Shinagawa (CM24063)
- 14 (o, b), 16 (a, b). *Thyasira* (*Thyasira*) *tokunagai* KURODA & HABE. *Thyasira gouldi* (PHILIPPI) sensu YOKOYAMA, 1927, pl. LII, figs. 3, 4. Loc. Namamugi (CM24453, CM24514)
15. *Conchocele bisecta* (CONRAD). *Thyasira bisecta* CONRAD: YOKOYAMA, 1927, pl. LII, fig. 11. Loc. Namamugi (CM24453)
16. see fig. 14

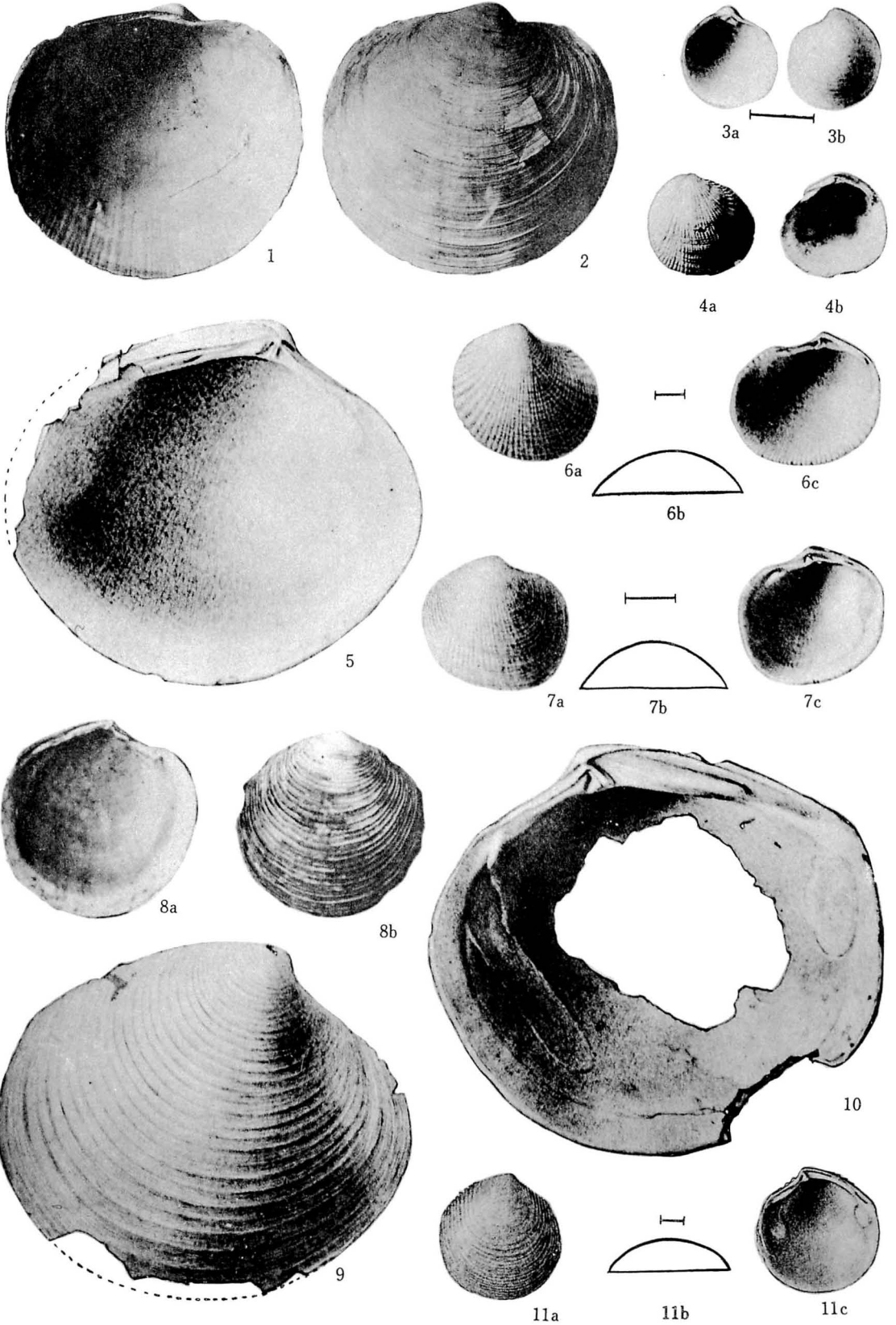


## Explanation of Plate 40

### Figure

- 1, 2. *Lucina stearnsiana* OYAMA. *Loripes philippiana* (REEVE) sensu YOKOYAMA, 1927, pl. L, figs. 2, 1. Loc. Kuruma-chô (CM24081, CM24080)
- 3 (a, b). *Pillucina* (*Wallucina*) *striata* (TOKUNAGA). *Lucina contraria* DUNKER : YOKOYAMA, 1920, pl. X, figs. 8 (a, b). Loc. Shimo-Miyata (CM20457)
- 4 (a, b). *Epicodakia delicatula* (PILSBRY). *Codadia bella* CONRAD var. *delicatula* PILSBRY : YOKOYAMA, 1924, pl. III, fig. 8. Loc. Numa (CM21942)
- 5, 9, 10. *Lucinoma spectabile* (YOKOYAMA). Lectotype (figs. 5, 9) and paralectotype (fig. 10) of *Lucina spectabilis* YOKOYAMA, 1920, pl. X, figs. 10-12. Loc. Koshiba (CM20460, CM20461)
- 6 (a-c). *Pillucina* (*Pillucina*) *pisidium* (DUNKER). *Lucina pisidium* DUNKER : YOKOYAMA, 1920, pl. X, figs. 6 (a-c). Loc. Shimo-Miyata (CM20451)
- 7 (a-c). *Pillucina* (*Sydlorina*) *yamakawai* (YOKOYAMA). Holotype of *Lucina yamakawai* YOKOYAMA, 1920, pl. X, figs. 9 (a-c). Loc. Shimo-Miyata (CM20462)
- 8 (a, b). *Lucinoma concentricum* (YOKOYAMA). *Lucina borealis* LINNÉ sensu YOKOYAMA, 1920, pl. X, figs. 7 (a, b). Loc. Yokosuka (CM20454 missing)
- 9, 10. see fig. 5
- 11 (a-c). *Lucinoma concentricum* (YOKOYAMA). Lectotype of *Woodia concentrica* YOKOYAMA, 1920, pl. XI, figs. 7 (a, c). Loc. Naganuma

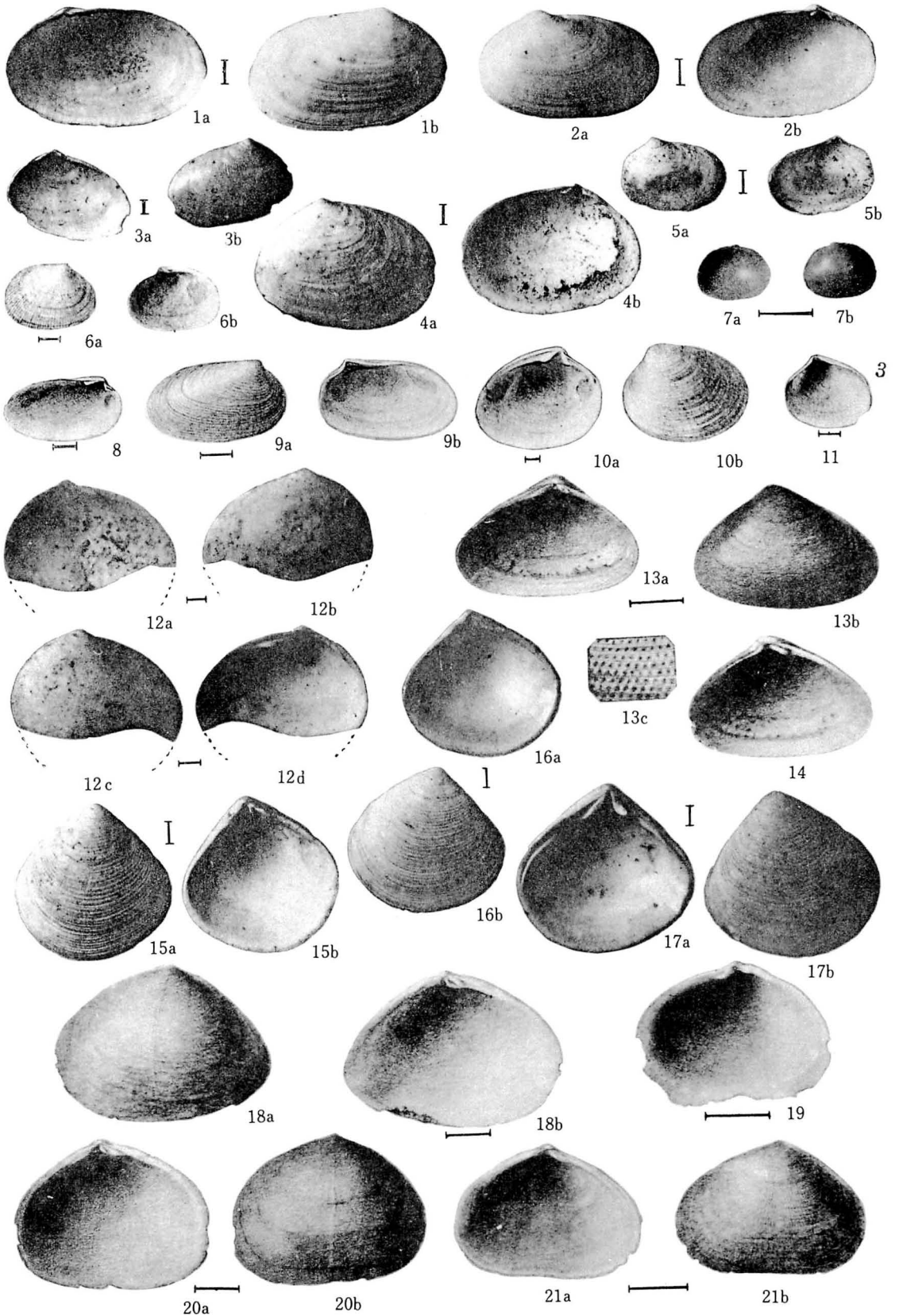




## Explanation of Plate 41

### Figure

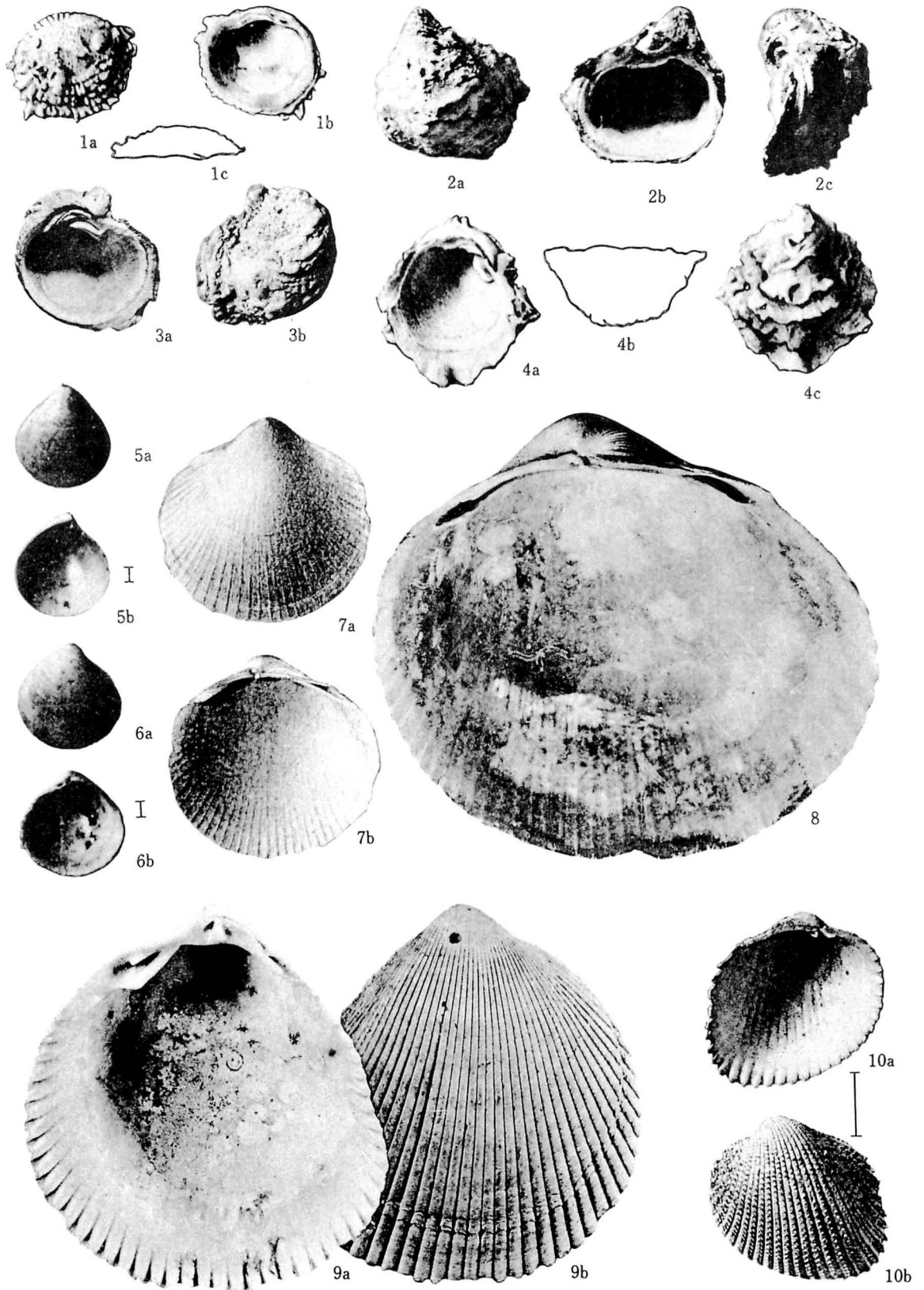
- 1 (a, b), 2 (a, b). *Montacutona ? fujitaniana* (YOKOYAMA). Lectotype (fig. 2) and paralectotype (fig. 1) of *Kellia fujitaniana* YOKOYAMA, 1927, pl. XLVIII, figs. 18, 17. Loc. Ôji (CM24045, CM24046)
- 3 (a, b), 4 (a, b). *Motacutona subelliptica* (YOKOYAMA). Lectotype (fig. 3) and paralectotype (fig. 4) of *Kellia subelliptica* YOKOYAMA, 1927, pl. XLVIII, figs. 9, 10. Loc. Dôkanyama (CM24042 missing, CM24043)
- 5 (a, b). *Nipponomysella subtruncata* (YOKOYAMA). Holotype of *Montacuta subtruncata* YOKOYAMA, 1927, pl. XLVIII, fig. 8. Loc. Ôji (CM24059)
- 6 (a, b). *Scitillula yamakawai* (YOKOYAMA). Lectotype of *Montacuta ? yamakawai* YOKOYAMA, 1922, pl. IX, fig. 10. Loc. Shisui (CM21415)
- 7 (a, b). *Ambuscintilla* sp. *Scitilla solidula* DESHAYES sensu YOKOYAMA, 1924, pl. V, fig. 22. Loc. Numa (CM21930)
- 8, 9 (a, b). *Nipponomysella oblongata* (YOKOYAMA). Lectotype (fig. 9) and paralectotype (fig. 8) of *Montacuta oblongata* YOKOYAMA, 1922, pl. XIII, figs. 9, 10. Loc. Ôji (CM21412, CM21413)
- 10 (a, b), 11. *Mysella japonica* (YOKOYAMA). Lectotype (fig. 10) and paralectotype (fig. 11) of *Montacuta japonica* YOKOYAMA, 1922, pl. IX, figs. 2, 3. Loc. Ôtake (CM21407, CM21408)
- 12 (a-d). *Parvikellia ?* sp. *Kellia pumia* S. WOOD sensu YOKOYAMA, 1927, pl. XLIX, figs. 1, 2. Loc. Kuruma-chô (CM24048, CM24048)
- 13 (a-c), 14. *Melliteryx puncticulata* (YOKOYAMA). Lectotype (fig. 13) and paralectotype (fig. 14) of *Lepton puncticulata* (YOKOYAMA), 1924, pl. IV, fig. 8, 8a, 9. Loc. Numa (CM21937)
- 15 (a, b). *Eolepton crassa* (YOKOYAMA). Paratype of *Meretrix gordonis* YOKOYAMA, 1927, pl. XLVIII, fig. 13. Loc. Kuruma-chô (CM24001)
- 16 (a, b), 17 (a, b). *Eolepton crassa* (YOKOYAMA). Lectotype (fig. 17) and paralectotype (fig. 18) of *Montacuta ? crassa* YOKOYAMA, 1927, pl. XLIX, figs. 5, 4. Loc. Shinagawa (CM24061, CM24060)
- 18 (a, b). "*Nesobornia*" *trigonalis* (YOKOYAMA). Holotype of *Scitilla trigonalis* YOKOYAMA, pl. IV, fig. 2. Loc. Numa (CM21933 missing)
- 19, 21 (a, b). *Byssobornia striatissima* (SOWERBY (G.B.)). Lectotype (fig. 21) and paralectotype (fig. 19) of *Galeomma adamsi* YOKOYAMA, 1924, pl. IV, figs. 4, 3. Loc. Numa (CM21935, CM21934)
- 20 (a, b). "*Nesobornia*" *nipponica* (YOKOYAMA). Holotype of *Scitilla nipponica* YOKOYAMA, 1924, pl. IV, fig. 1. Loc. Numa (CM21932)
21. see fig. 19



## Explanation of Plate 42

### Figure

- 1 (a-c), 4 (a-c). *Chama (Chama) fragum* REEVE. *Chama semipurpurata* LISCHKE sensu YOKOYAMA, 1920, pl. X, figs. 13 (a-c), 14 (a-c). Loc. Kami-Miyata (CM20463 missing CM20464)
- 2 (a-c). *Chama (Pseudochama) retroversa* LISCHKE. *Chama retroversa* LISCHKE: YOKOYAMA, 1924, pl. III, figs. 7 (a-c). Loc. Numa (CM21945)
- 3 (a, b). *Chama (Chama) aspersa* REEVE. *Chama semipurpurata* LISCHKE sensu YOKOYAMA, 1922, pl. XIII, fig. 5. Loc. Ôtake (CM21443)
4. see fig. 1
- 5 (a, b), 6 (a, b). *Alvenius ojanus* (YOKOYAMA). Lectotype (fig. 5) and paralectotype (fig. 6) of *Kellia (?) ojiana* YOKOYAMA, 1927, pl. L, figs. 7, 8. Loc. Ôji (CM24050 missing, CM24051 missing)
- 7 (a, b). *Fulvia mutica* (REEVE). *Cardium muticum* REEVE: YOKOYAMA, 1920, pl. IX, figs. 11 (a, b). Loc. Ôkine
8. *Fulvia mutica* (REEVE). *Cardium muticum* REEVE: YOKOYAMA, 1922, pl. XII, fig. 7. Loc. Ôtake (CM21392)
- 9 (a, b). *Acrosterigma (Vasticardium) burchardi* (DUNKER). *Cardium burchardi* DUNKER: YOKOYAMA, 1922, pl. XII, fig. 3. Loc. Ôtake (CM21388)
- 10 (a, b). *Afrocardium ebaranum* (YOKOYAMA). Lectotype of *Cardium ebaranum* YOKOYAMA, 1927, pl. XLVIII, fig. 15. Loc. Shinagawa (CM24040)



### Explanation of Plate 43

#### Figure

- 1 (a, b). *Clinocardium (Fuscocardium) braunsi* (TOKUNAGA). *Cardium braunsi* TOKUNAGA · YOKOYAMA, 1929, pl. X, figs. 1 (a, b). Loc. Kami-Miyata (CM20438)
- 2, 3 (a, b). *Nemocardium (Keenaea) samarangae* MAKIYAMA. *Cardium modestum* A. ADMS & REEVE: YOKOYAMA, 1920, pl. IX, figs. 13, 12 (a, b). Loc. Koshiba (CM20436, CM20435 missing)
- 4 (a, b), 5 (a, b). *Clinocardium (Fuscocardium) braunsi* (TOKUNAGA). Lectotype (fig. 4) and paralectotype (fig. 5) of *Cardium tokunagai* YOKOYAMA, 1922, pl. XII, figs. 6, 5. Loc. Ôtake (CM21403, CM21402)
- 6 (a, b). *Clinocardium (Fuscocardium) braunsi* (TOKUNAGA). Holotype of *Cardium tokunagai* YOKOYAMA var. *ovatum* YOKOYAMA, 1922, pl. XII, fig. 4. Loc. Shisui (CM21401)
- 7 (a, b). *Clinocardium (Clinocardium) californiense* (DESHAYES). *Cardium cliforniensis* [-e] DESHAYES: YOKOYAMA, 1920, pl. IX, figs. 10 (a, b). Loc. Kami-Miyata (CM20426)
- 8 (a, b). *Clinocardium (Fuscocardium) braunsi* (TOKUNAGA). *Cardium braunsi* TOKUNAGA: YOKOYAMA, 1922, pl. XIII, fig. 2. Loc. Ôtake (CM21398)

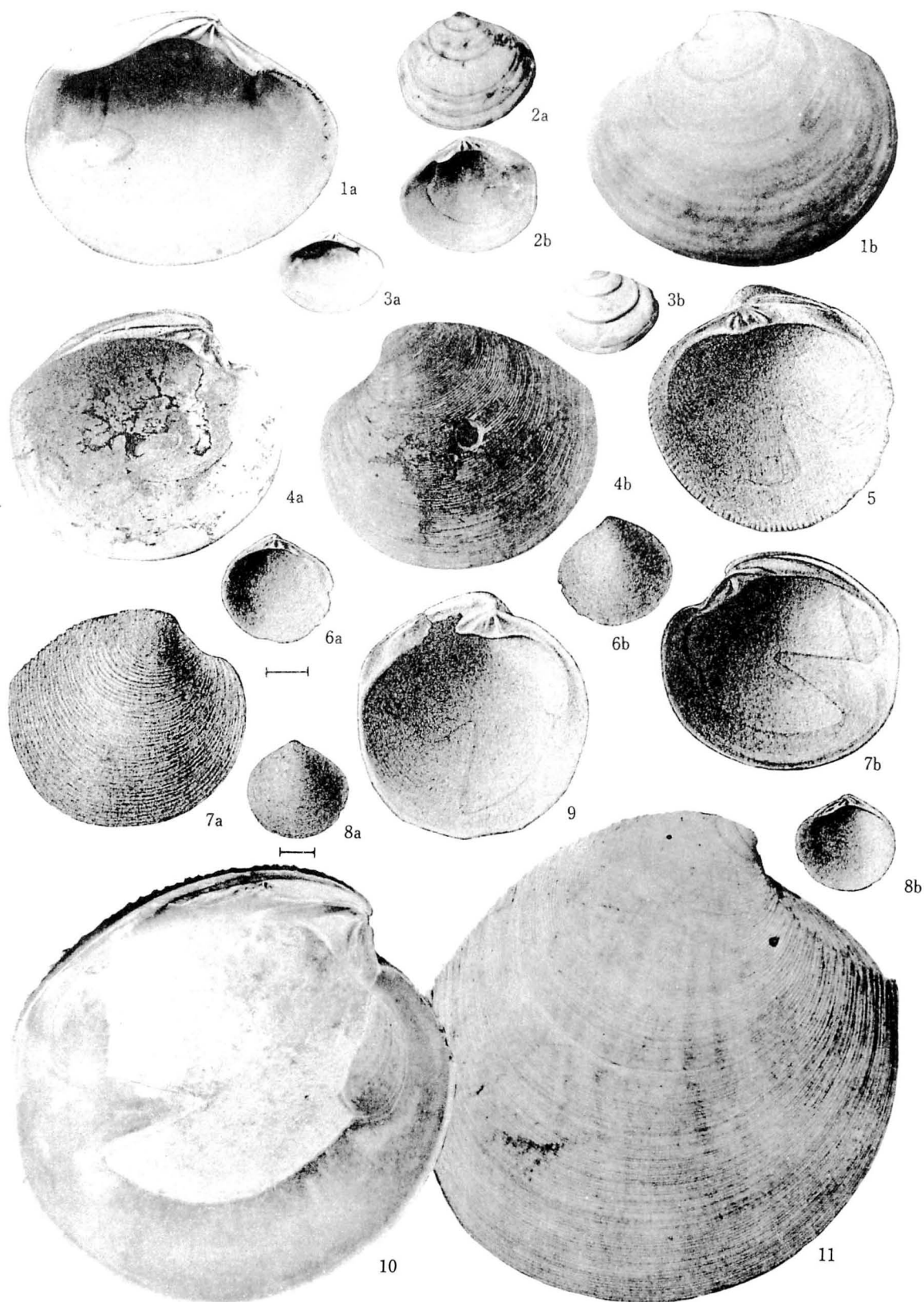


## Explanation of Plate 44

### Figure

- 1 (a, b), 2 (a, b), 3 (a, b). *Sunetta (Cyclosunetta) menstrualis* MENKE. *Sunetta excavata* HANLEY: YOKOYAMA, 1922, pl. XI, figs. 6, 8, 7. Loc. Kioroshi (fig. 1) and Ôtake (figs. 2, 3) (CM21341-CM21343)
- 4 (a, b). *Dosinia (Phacosoma) sericea* (REEVE). *Dosinia troscheli* LISCHKE sensu YOKOYAMA, 1920 (pars), pl. VIII, fig. 5. Loc. Ôkine (CM20385)
- 5, 9. *Cyclina orientalis* (SOWERBY (G. B. II)). *Cyclina chinensis* CHEMNITZ sensu YOKOYAMA, 1920, pl. VIII, figs. 8, 7. Loc. Ôtsu (CM20389, CM20388)
- 6 (a, b), 8 (a, b). *Circe yokoyamai* ОТУКА, lectotype (fig. 6) and paralectotype (fig. 8) of *Circe scripta* LINNÉ sensu YOKOYAMA, 1920, pl. VIII, figs. 16 (a, b), 15 (a, b). Loc. Naganuma (CM20406 missing, CM20405 missing)
- 7 (a, b). *Dosinia (Phacosoma) japonica* (REEVE). *Dosinia troscheli* LISCHKE sensu YOKOYAMA, 1920 (pars), pl. VIII, fig. 6. Loc. Shimo-Miyata (CM20386)
8. see fig. 6
9. see fig. 5
- 10, 11. *Dosinia (Dosinorbis) bilunulata* (GRAY). *Dosinia bilunulata* GRAY: YOKOYAMA, 1922, pl. X, figs. 12, 13. Loc. Ôtake (CM21326, CM21722)

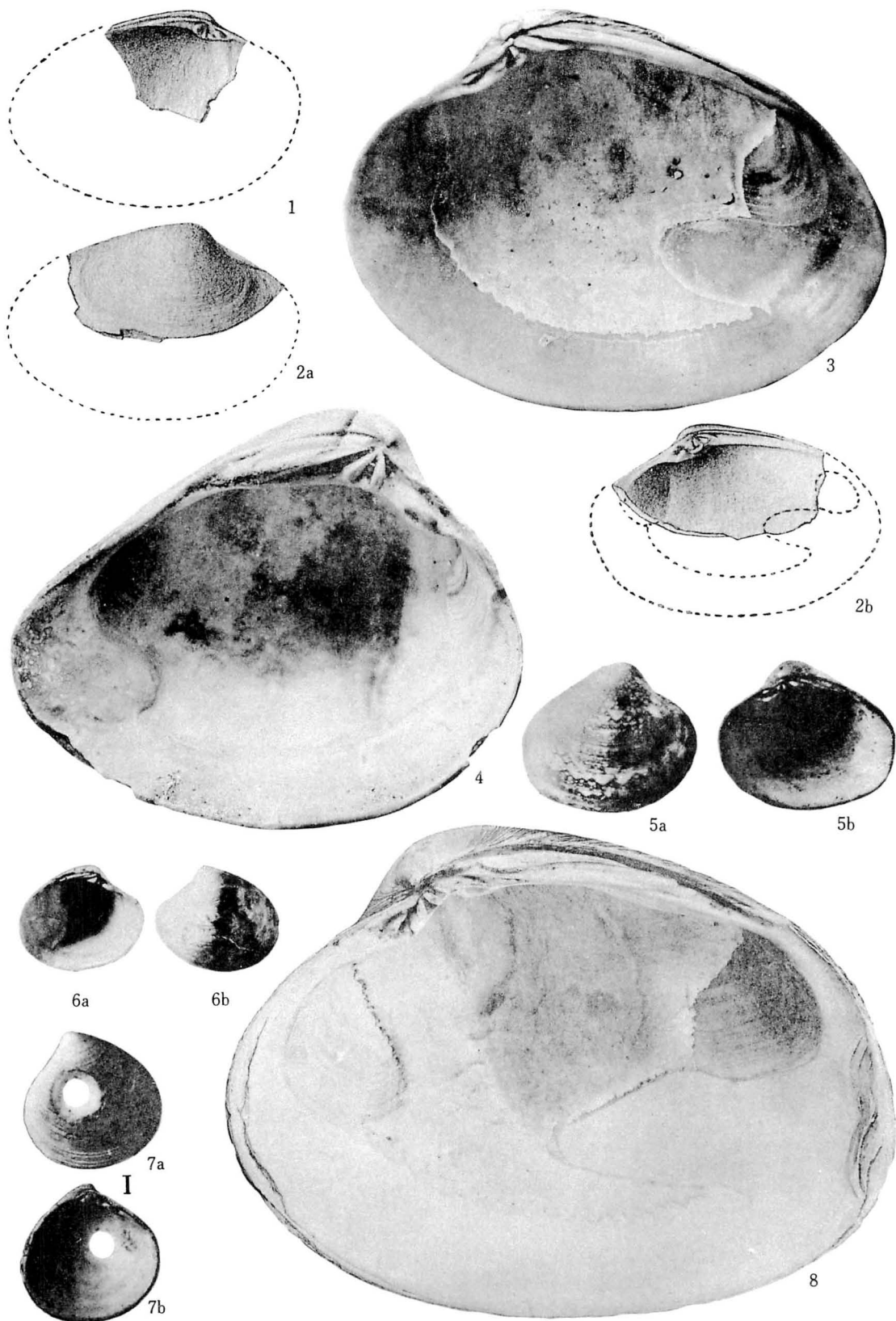




### Explanation of Plate 45

#### Figure

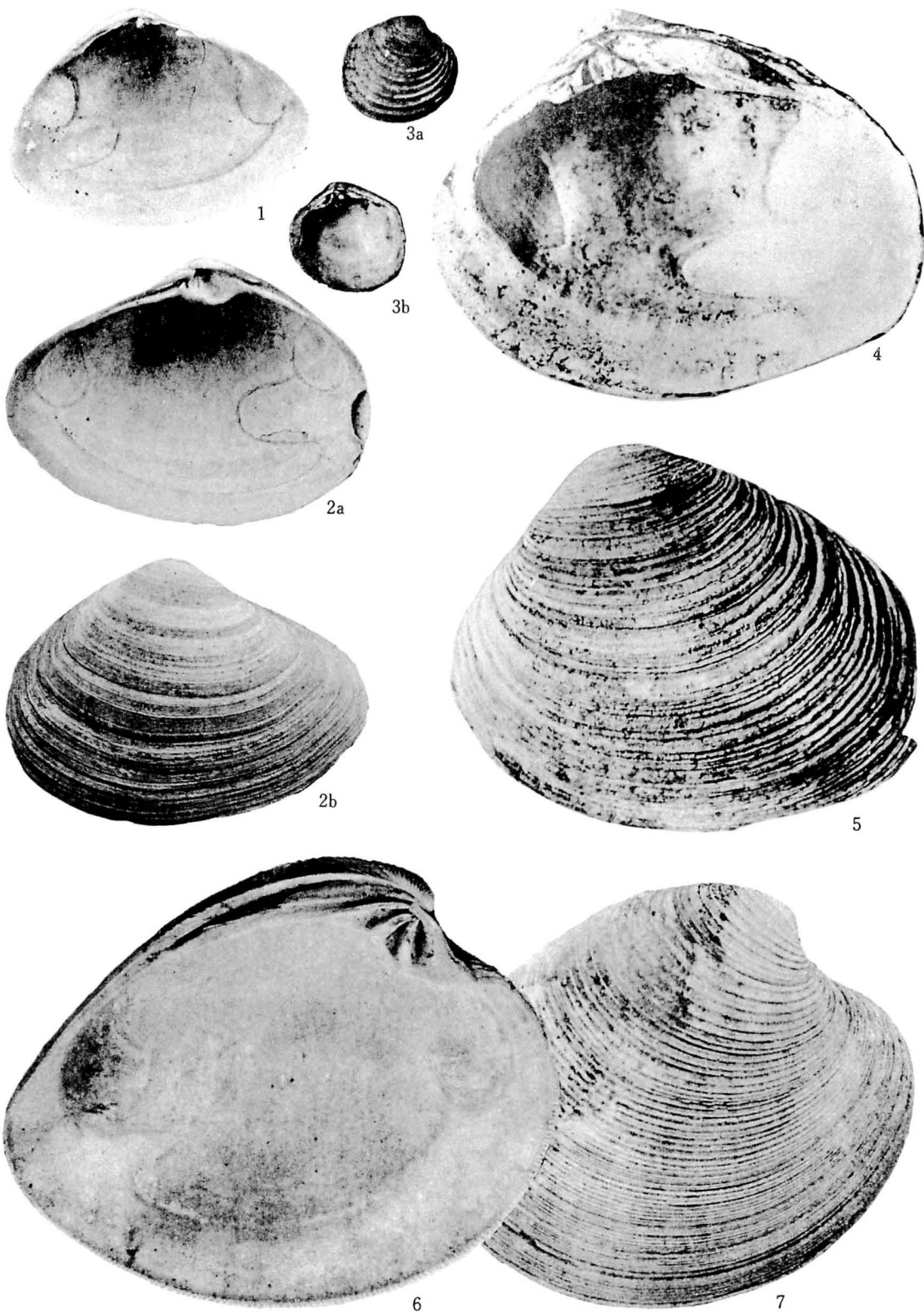
- 1, 2 (a, b). *Callista chinensis* (HOLTEN). *Meretrix (Callista) chinensis* CHEMNITZ: YOKOYAMA, 1920, pl. VIII, figs. 9, 10. Loc. Naganuma (CM20391, CM20392)
3. *Ezocallista brevisiphonata* (CARPENTER). *Meretrix (Callista) chinensis* CHEMNITZ sensu YOKOYAMA, 1922, pl. XI, fig. 5. Loc. Shitô (CM21335)
4. *Meretrix lusoria* (RÖDING). *Meretrix meretrix* LINNÉ sensu YOKOYAMA, 1922, pl. IX, fig. 4. Loc. Ôtake (CM21330)
- 5 (a, b). *Pitar (Pitarina) limatula* (SOWERBY (G. B. II)). *Meretrix tigrina* (LAMARCH) sensu YOKOYAMA, 1924, pl. II, fig. 16. Loc. Numa (CM21918)
- 6 (a, b). *Pitar (Pitarina) lineolata* (SOWERBY (G. B. II)). *Meretrix limatula* (SOWERBY) sensu YOKOYAMA, 1924, pl. II, fig. 21. Loc. Numa (CM21920 missing)
- 7 (a, b). *Microcirce gordonis* (YOKOYAMA). Lectotype of *Meretrix gordonis* YOKOYAMA, 1927, pl. XLVIII, fig. 14. Loc. Shinagawa (CM24002)
8. *Saxidomus purpurata* (SOWERBY (G. B. II)): YOKOYAMA, 1922, pl. XII, fig. 9. Loc. Ôtake (CM21383)



## Explanation of Plate 46

### Figure

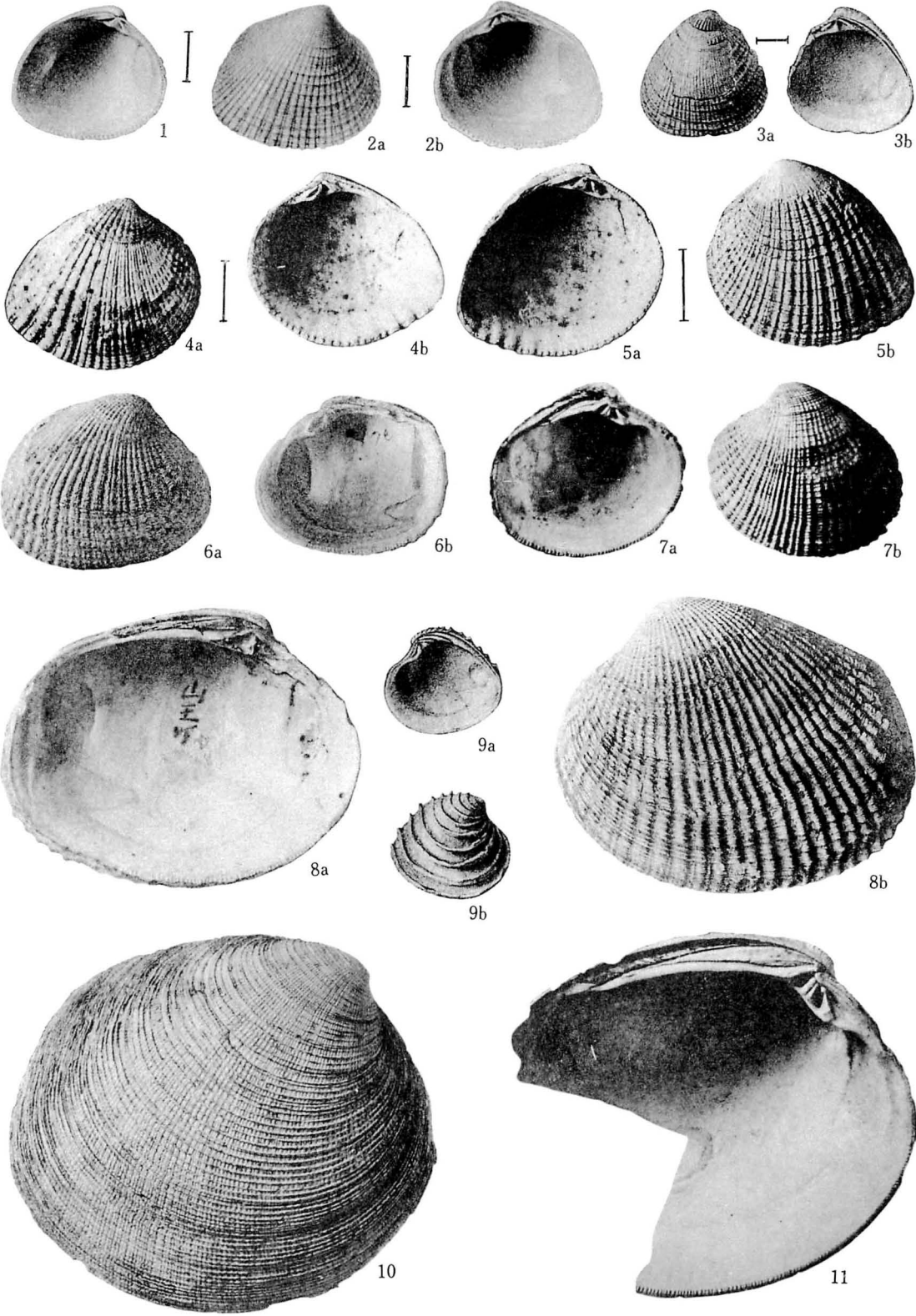
- 1, 2 (a, b). *Spisula (Mactromeris) voyi* (GABB). *Spisula grayana* SCHRENCK sensu YOKOYAMA, 1922, pl. VIII, figs. 2, 1. Loc. Shitô (CM21217, CM21216)
- 3 (a, b). *Ventricolaria toreuma* (GOULD). *Venus toreuma* GOULD: YOKOYAMA, 1924, pl. II, fig. 22. Loc. Numa (CM21924)
- 4, 5. *Saxidomus purpurata* (SOWERBY (G. B. II)): YOKOYAMA, 1920, pl. IX, figs. 8, 9. Loc. Yokosuka (CM20420, CM20421)
- 6, 7. *Mercenaria stimpsoni* (GOULD). *Venus (Mercenaria) stimpsoni* GOULD: YOKOYAMA, 1922, pl. XI, figs. 11, 12. Loc. Ôtake (CM21348, CM 21349)



## Explanation of Plate 47

### Figure

- 1, 2 (a, b). *Anomalocardia (Veremolpa) minuta* (YOKOYAMA). *Chione mindanensis* SMITH sensu YOKOYAMA, 1922, pl. XI, figs. 2, 3. Loc. Shitô (CM21367, CM21366)
- 3 (a, b). *Anomalocardia (Veremolpa) minuta* (YOKOYAMA). Lectotype of *Chione minuta* YOKOYAMA, 1920, pl. VIII, fig. 14. Loc. Naganuma (CM20403 missing)
- 4 (a, b), 5 (a, b). *Anomalocardia (Veremolpa) micra* (PILSBRY). *Chione crenifera* SOWERBY sensu YOKOYAMA, 1927, pl. LII, figs. 10, 9. Loc. Ichikawa (CM24428, CM24427)
- 6 (a, b), 8 (a, b). *Protothaca (Protothaca) jodoensis* (LISCHKE). *Venus jodoensis* LISCHKE: YOKOYAMA, 1920, pl. VIII, figs. 12, 11. Loc. Naganuma (CM20395, CM20394)
- 7 (a, b). *Protothaca (Protothaca) jodoensis* (LISCHKE). *Venus jodoensis* LISCHKE: YOKOYAMA, 1924, pl. II, fig. 20. Loc. Numa (CM21922)
8. see fig. 6.
- 9 (a, b). *Clausinella (Placamen) tiara* (DILLWYN). *Chione isabellina* PHILIPPI sensu YOKOYAMA, 1920, pl. VIII, fig. 13. Loc. Naganuma (CM20401)
- 10, 11. *Protothaca (Callithaca) adamsi* (REEVE). *Venus rigida* GOULD sensu YOKOYAMA, 1927, pl. L, figs. 3, 4. Loc. Ôji (CM24007, CM24008)

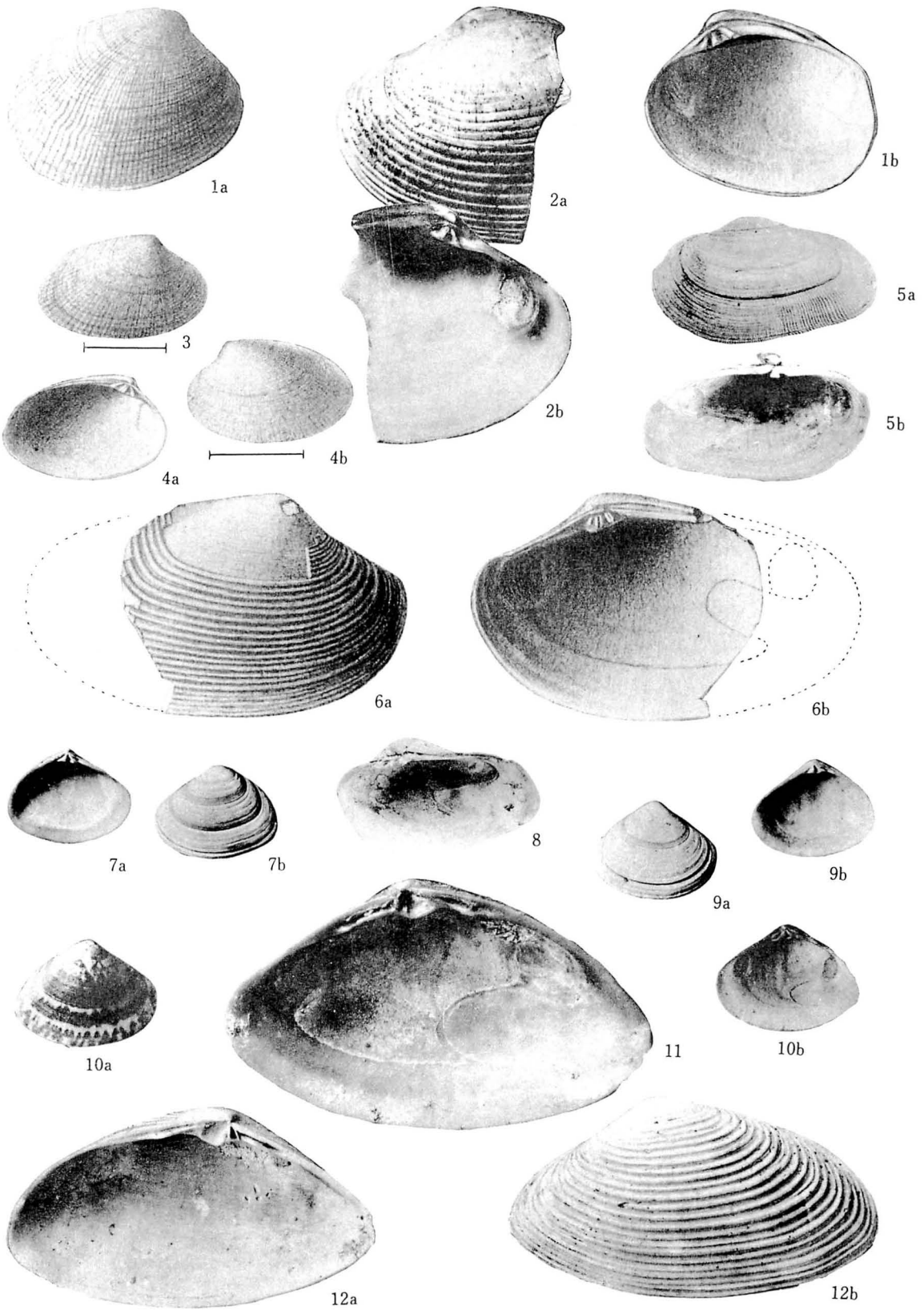


## Explanation of Plate 48

### Figure

- 1 (a, b). *Tapes (Ruditapes) japonicus* (DESHAYES). *Tapes philippinarum* (A. ADAMS & REEVE) sensu YOKOYAMA, 1920, pl. IX, figs. 6 (a, b). Loc. Ôtsu (CM20417)
- 2 (a, b). *Paphia (Paphia) vernicosa* (GOULD). *Tapes euglyptus* PHILIPPI sensu YOKOYAMA, 1922, pl. XII, fig. 8. Loc. Kioroshi (CM21375)
- 3, 4 (a, b). *Tapes (Ruditapes) variegatus kioroshiensis* (HIRAYAMA & ANDO). *Tapes variegatus* HANLEY sensu YOKOYAMA, 1920, pl. IX, figs. 4, 5 (a, b). Loc. Kami-Miyata (CM20414, CM20415)
- 5 (a, b), 8. *Petricola (Petricolirus) aequistriata* SOWERBY (G. B. II). *Venerupis semipurpurea* DUNKER sensu YOKOYAMA, 1922, pl. XII, figs. 1, 2. Loc. Ôtake (CM21369)
- 6 (a, b). *Paphia (Paphia) naganumana* OTUKA, Lectotype. *Tapes amabilis* PHILIPPI sensu YOKOYAMA, 1920, pl. IX, figs. 7 (a, b). Loc. Naganuma (CM20419)
- 7 (a, b), 9 (a, b). *Gomphina (Gomphina) neastartoides* (YOKOYAMA). Lectotype (fig. 7) and paralectotype (fig. 9) of *Venus neastartoides* YOKOYAMA, 1922, pl. XI, figs. 9 (a, b), 10. Loc. Kioroshi (CM21357, CM21358)
8. see fig. 5
9. see fig. 7
- 10 (a, b). *Gomphina (Macridiscus) veneriformis* (LAMARCK). *Gomphina melanaeigis* ROEMER sensu YOKOYAMA, 1927, pl. LII, fig. 12. Loc. Ichikawa (CM24435)
- 11, 12 (a, b). *Oxyperas bernardi* (PILSBRY). *Spisula bernardi* PILSBRY: YOKOYAMA, 1922, pl. VIII, figs. 3, 4. Loc. Kioroshi (CM21219 missing, CM21220)

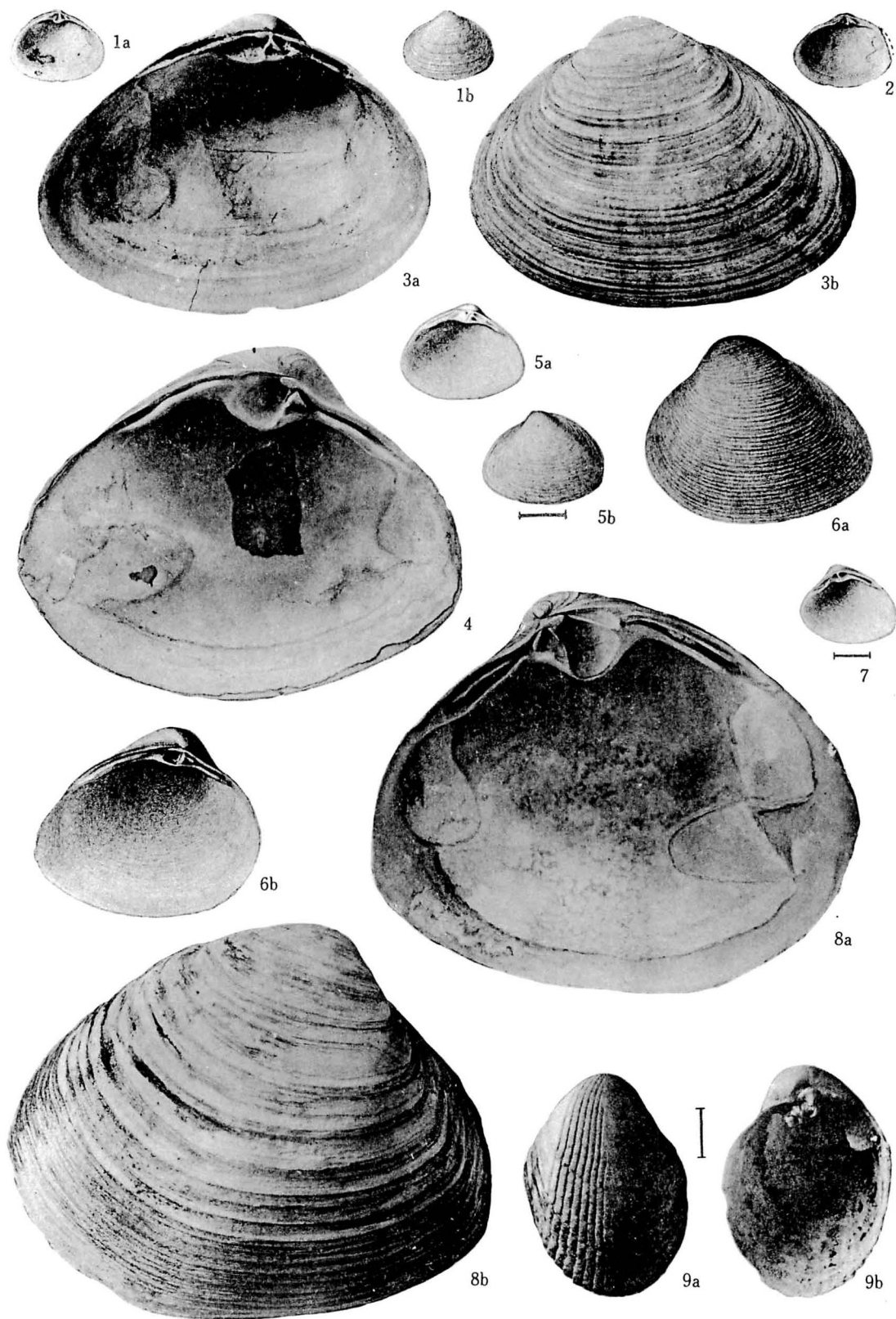




## Explanation of Plate 49

### Figure

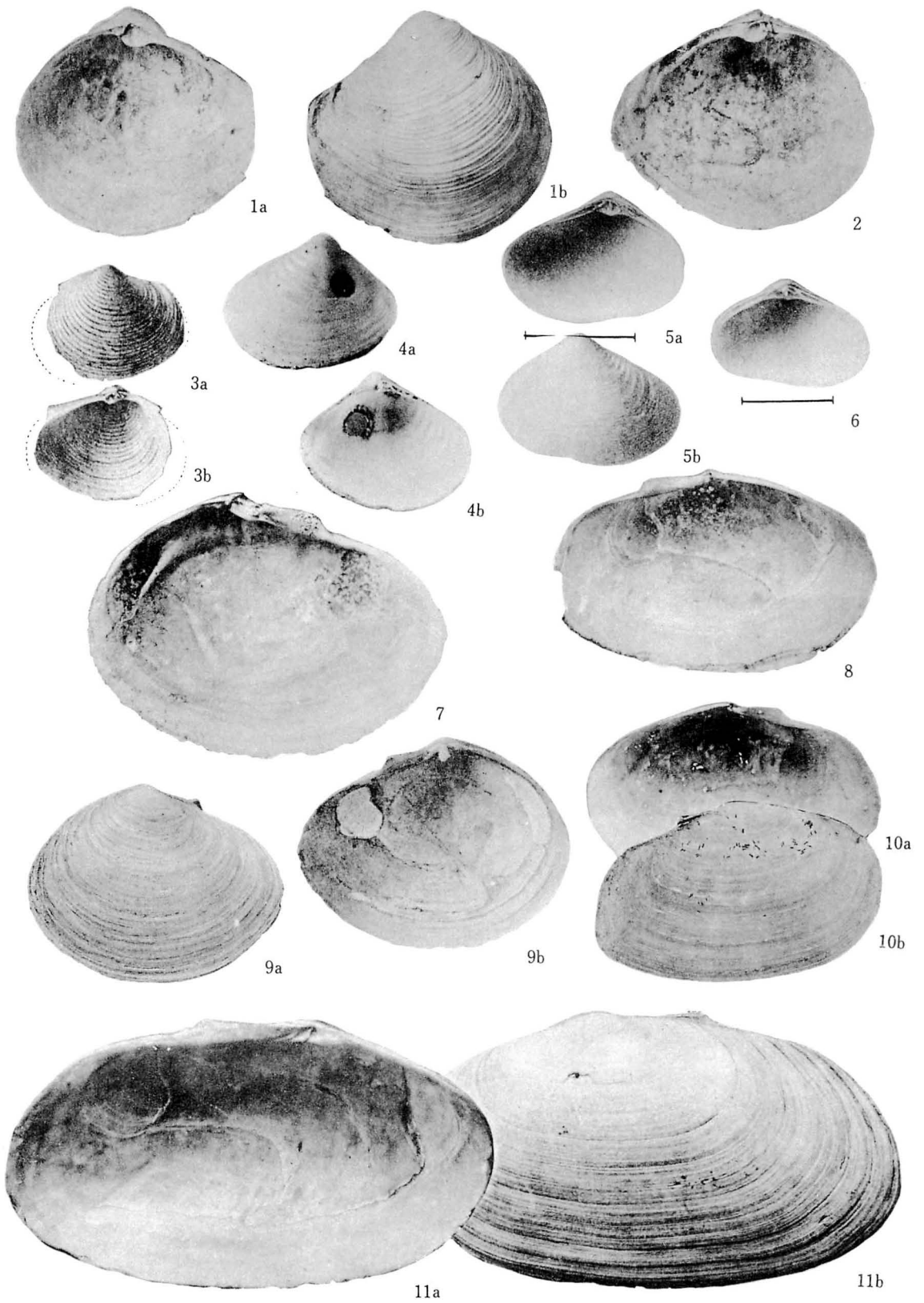
- 1 (a, b), 2. *Coecella chinensis* DESHAYES. Lectotype (fig. 1) and paralectotype (fig. 2) of *Ervillia otsuensis* YOKOYAMA, 1920, pl. VII, figs. 21 (a, b), 22. Loc. Ôtsu (CM20351, CM20352)
- 3 (a, b). *Mactra (Mactra) sulcataria* REEVE. *Mactra sulcataria* DESHAYES: YOKOYAMA, 1922, pl. 7, fig. 6. Loc. Shitô (CM21192)
- 4, 8 (a, b). *Spisula (Pseudocardium) sachalinensis* (SCHRENCK). Lectotype (fig. 8) and paralectotype (fig. 4) of *Mactra sachalinensis* SCHRENCK var. *imperialis* YOKOYAMA, 1922, pl. VII, figs. 9, 10. Loc. Shitô (CM21211, CM21212)
- 5 (a, b), 7. *Spisula (Pseudocardium) sachalinensis* (SCHRENCK). Lectotype (fig. 5) and paralectotype (fig. 7) of *Mactra dunkeri* YOKOYAMA, 1922, pl. VII, figs. 8, 7. Loc. Shitô (CM21207, CM21206).
- 6 (a, b). *Mactra (Mactra) veneriformis* REEVE. *Mactra veneriformis* DESHAYES: YOKOYAMA, 1920, pl. VII, figs. 10 (a, b). Loc. Ôtsu (CM20353)
7. see fig. 5
8. see fig. 4
- 9 (a, b). *Cardilia semisulcata* (LAMARCK): YOKOYAMA, 1927, pl. XLVIII, fig. 16. Loc. Kuruma-chô (CM23925)



## Explanation of Plate 50

### Figure

- 1 (a, b), 2. *Raeta (Raetina) pellicula* (REEVE). Lectotype (fig. 1) and paralectotype (fig. 2) of *Raeta magnifica* YOKOYAMA, 1922, pl. VIII, figs. 12, 13. Loc. Tega (CM21233, CM21234)
- 3 (a, b). *Raeta (Raetina) pellicula* (REEVE). *Raeta pellicula* DESHAYES: YOKOYAMA, 1922, pl. IX, fig. 6. Loc. Ôtake (CM21228)
- 4 (a, b). *Raeta (Raetellops) yokohamensis* PILSBRY. Lectotype of *Raeta elliptica* YOKOYAMA, 1922, pl. VIII, fig. 7. Loc. Tega (CM21229)
- 5 (a, b), 6. *Raeta (Raetellops) yokohamensis* PILSBRY: YOKOYAMA, 1922, pl. VIII, figs. 5, 6. Loc. Ôtake (CM21222, CM21223 missing)
- 7, 9 (a, b). *Hiatula (Nuttalia) ezonis* (KURODA & HABE). *Soletellina olivacea* JAY sensu YOKOYAMA, 1922, pl. IX, fig. 17. Loc. Shitô (CM21268)
- 8, 10 (a, b). *Hiatula (Hiatula) atrata* (REEVE). *Soletellina violacea* LAMARDK sensu YOKOYAMA, 1922, pl. IX, figs. 14, 13. Loc. Ôtake (CM21264, CM21263)
9. see fig. 7
10. see fig. 8
- 11 (a, b). *Gari (Gobraeus) kazusensis* (YOKOYAMA). Lectotype of *Psammobia kazusensis* YOKOYAMA, 1922, pl. IX, fig. 4. Loc. Shitô (CM21261)



## Explanation of Plate 51

### Figure

1. *Tresus keenae* (KURODA & HABE). *Tresus nuttali* CONRAD sensu YOKOYAMA, 1922, pl. VIII, fig. 8. Loc. Ôtake (CM21235)
- 2, 3. *Lutraria maxima* JONAS: YOKOYAMA, 1922, pl. VIII, figs. 9, 10. Loc. Ôtake (CM21240, CM21241)
- 4 (a, b). *Lutraria sieboldi* REEVE. Lectotype of *Lutraria radiata* YOKOYAMA, 1920, pl. VII, figs. 11 (a, b). Loc. Naganuma (CM20355)
- 5 (a, b), 6 (a, b). *Tresus keenae* (KURODA & HABE). *Mactra ovalina* LAMARCK sensu YOKOYAMA, 1922, pl. VII, figs. 13, 12. Loc. Tega (fig. 5) and Ôtake (fig. 6) (CM21202, CM21201)
- 7, 8. *Lutraria sieboldi* REEVE. *Lutraria sieboldi* DESHAYES: YOKOYAMA, 1927, pl. XLIX, figs. 8, 9. Loc. Shinagawa (CM23944)

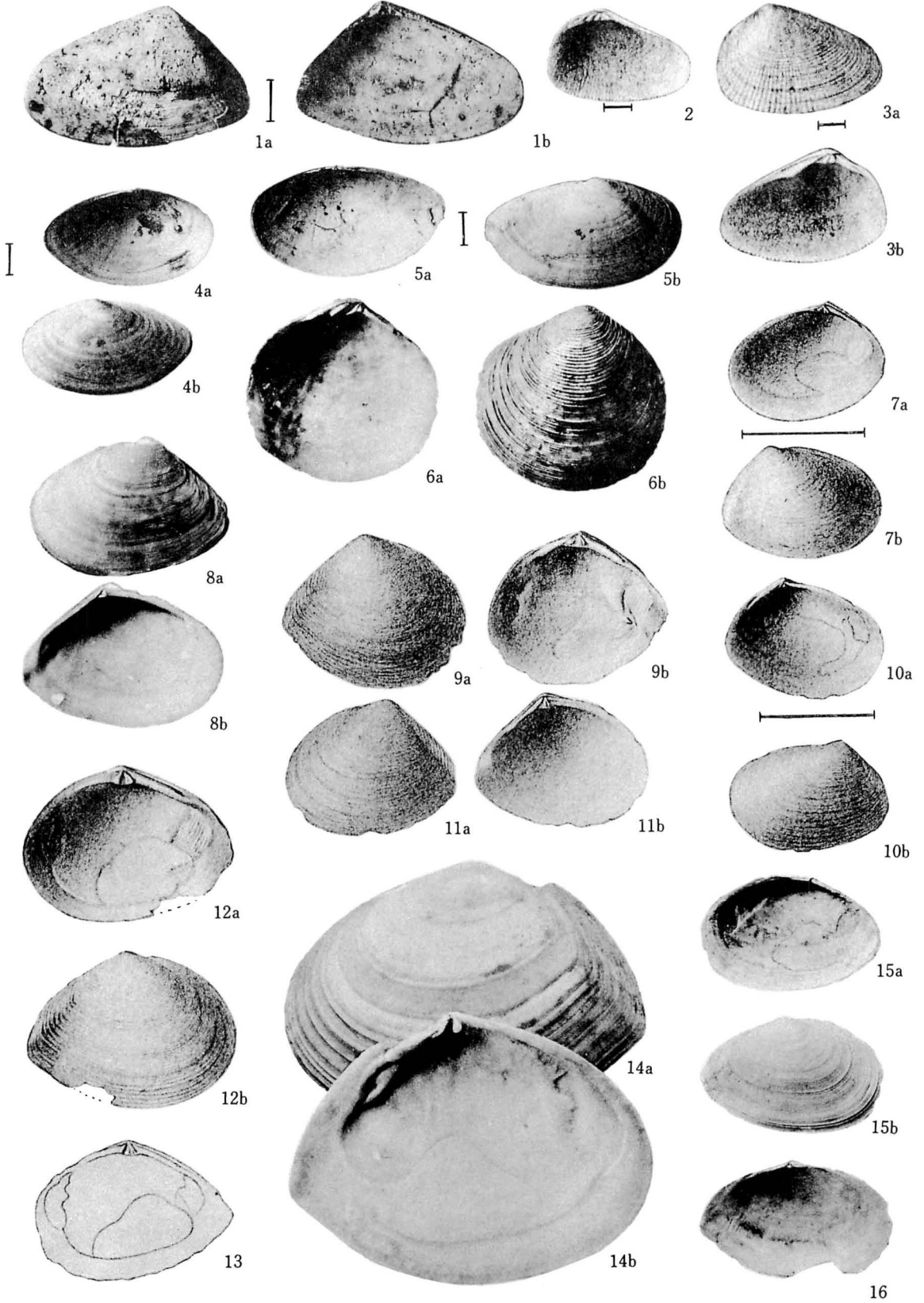


## Explanation of Plate 52

### Figure

- 1 (a, b). *Donax (Tendidonax) kiusiuensis* PILSBRY. Holotype of *Donax paululus* YOKOYAMA, 1927, pl. LII, fig. 6. Loc. Matsudo (CM24383)
- 2, 3 (a, b). *Donax (Chion) semigranosus* DUNKER. *Donax introradiatus* REEVE sensu YOKOYAMA, 1922, pl. IX, figs. 9, 8. Loc. Tega (CM21260, CM21259)
- 4 (a, b), 5 (a, b). *Theora lubrica* GOULD: YOKOYAMA, 1927, pl. XLVIII, figs. 12, 11. Loc. Kuruma-chô (CM23958, CM23957)
5. see fig. 3
- 6 (a, b). *Semele carnicolor* (HANLEY). *Semele aspasia* ANGAS sensu YOKOYAMA, 1924, pl. II, fig. 17. Loc. Numa (CM21908)
- 7 (a, b), 10 (a, b). *Macoma nipponica* (TOKUNAGA): YOKOYAMA, 1920, pl. VIII, figs. 3, 4. Loc. Ôkine (CM20381, CM20382)
- 8 (a, b). *Macoma tokyoensis* MAKIYAMA. *Macoma dissimilis* v. MARTENS: YOKOYAMA, 1922, pl. X, fig. 4. Loc. Ôtake (CM21314 missing)
- 9 (a, b), 11 (a, b). *Macoma incongrua* (v. MARTENS). *Macoma inquinata* DESHAYES sensu YOKOYAMA, 1920, pl. VIII, figs. 1, 2. Loc. Ôkine (CM20379 missing, CM20380)
10. see fig. 7
11. see fig. 9
- 12 (a, b), 13. *Macoma incongrua* (v. MARTENS). *Macoma dissimilis* v. MARTENS sensu YOKOYAMA, 1920, pl. VII, figs. 19 (a, b), 20. Loc. Ôtsu (CM20375, CM20376)
- 13 (a, b). *Rexithaerus sector* (OYAMA). *Macoma secta* CONRAD sensu YOKOYAMA, 1922, pl. XI, fig. 1. Loc. Ôtake (CM21317)
- 15 (a, b), 16. *Macoma praetexta* (v. MARTENS): YOKOYAMA, 1922, pl. X, fig. 4. Loc. Shisui (CM21304, CM21305)

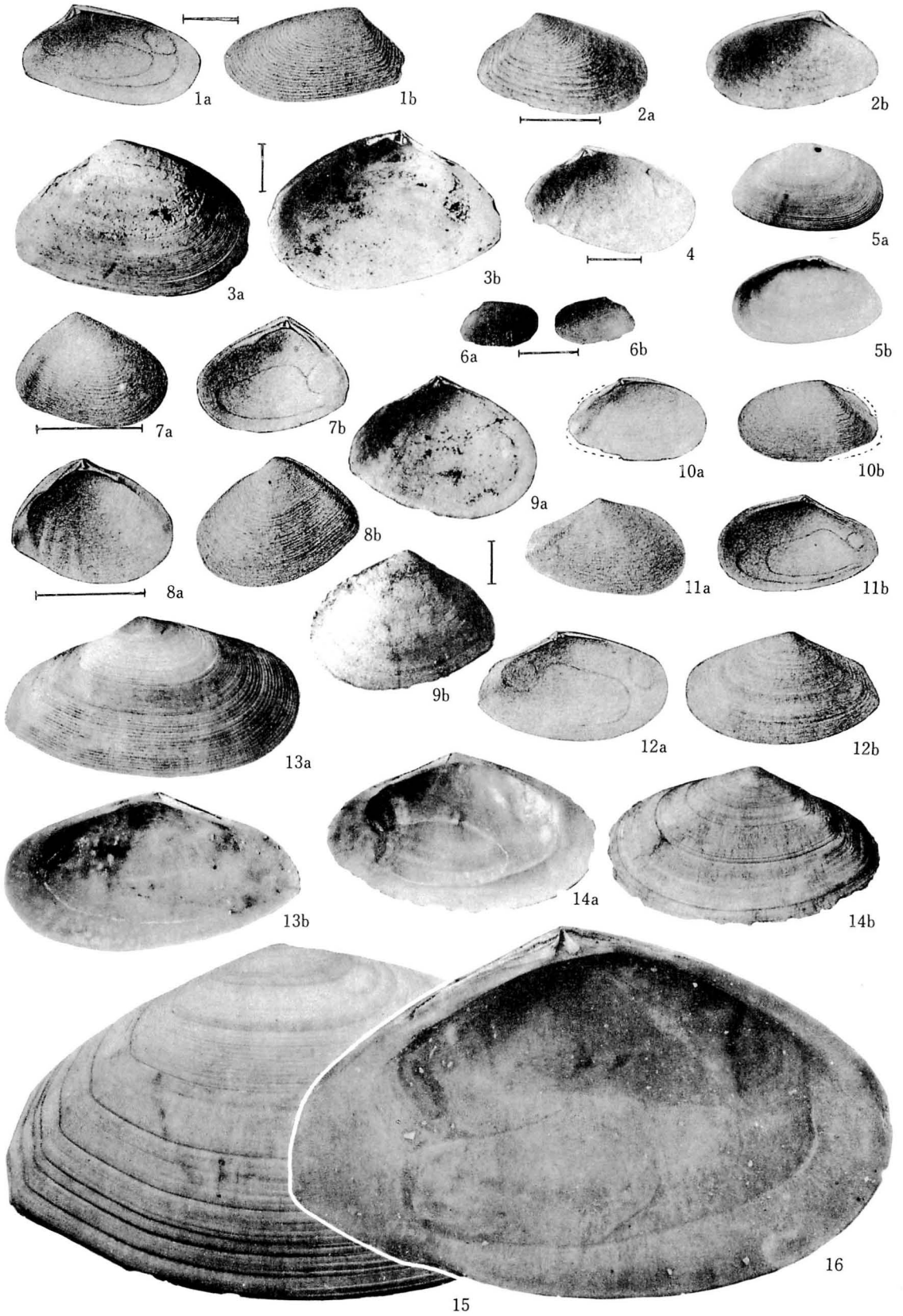




### Explanation of Plate 53

#### Figure

- 1 (a, b). *Semelangulus miyatensis* (YOKOYAMA). Lectotype of *Tellina miyatensis* YOKOYAMA, 1920, pl. VII, figs. 18 (a, b). Loc. Kami-Miyata (CM20374)
- 2 (a, b). *Peronidia venulosa* (SCHRENCK). *Tellina jechoensis* LISCHKE sensu YOKOYAMA, 1922, pl. IX, fig. 16. Loc. Tega
- 3 (a, b), 9 (a, b). *Fabulina (Moerella) peitaihoensis* (GRABAU & KING). *Tellina pallidula* LISCHKE sensu YOKOYAMA, 1927, pl. LII, figs. 8, 7. Loc. Koyasu
4. *Peronidia venulosa* (SCHRENCK) (?). *Tellina jechoensis* LISCHKE sensu YOKOYAMA, 1922, pl. IX, fig. 15. Loc. Tega
- 5 (a, b). *Fabulina (Fabulina) nitidula* (DUNKER). *Tellina nitidula* DUNKER : YOKOYAMA, 1922, pl. VIII, fig. 11. Loc. Shisui (CM21281)
- 6 (a, b). *Fabulina (Fabulina) minuta* (LISCHKE). *Tellina iridella* MARTENS : YOKOYAMA, 1924, pl. V, fig. 23. Loc. Numa (CM21910)
- 7 (a, b), 8 (a, b). *Merisca subtruncata* (HANLEY). *Tellina ojiensis* TOKUNAGA : YOKOYAMA, 1920, pl. VII, figs. 17 (a, b), 16 (a, b). Loc. Naganuma (CM20367, CM20366)
- 9 see fig. 3
- 10 (a, b). *Fabulina (Fabulina) nitidula* (DUNKER). *Tellina nitidula* DUNKER : YOKOYAMA, 1920, pl. VII, figs. 15 (a, b). Loc. Ôtsu (CM20364)
- 11 (a, b). *Merisca tokunagai* (IKEBE). Holotype of *Arcopagia (Merisca) tokunagai* IKEBE. *Tellina serricostata* TOKUNAGA sensu YOKOYAMA, 1920, pl. VIII, fig. 24. Loc. Kami-Miyata (CM20372)
- 12 (a, b). *Angulus vestalioides* (YOKOYAMA). Lectotype of *Tellina vestalioides* YOKOYAMA, 1920, pl. VII, fig. 25. Loc. Naganuma (CM20370)
- 13 (a, b), 14 (a, b). *Peronidia venulosa* (SCHRENCK). Lectotype (fig. 13) and paralectotype (fig. 14) of *Tellina alternata* SAY var. *chibana* YOKOYAMA, 1922, pl. X, figs. 6, 5. Locs. Ôtake (fig. 14) and Kamenari (fig. 13).
- 15, 16. *Peronidia venulosa* (SCHRENCK). *Tellina venulosa* SCHRENCK : YOKOYAMA, 1922, pl. X, fig. 1. Loc. Ôtake (CM21275)



### Explanation of Plate 54

#### Figure

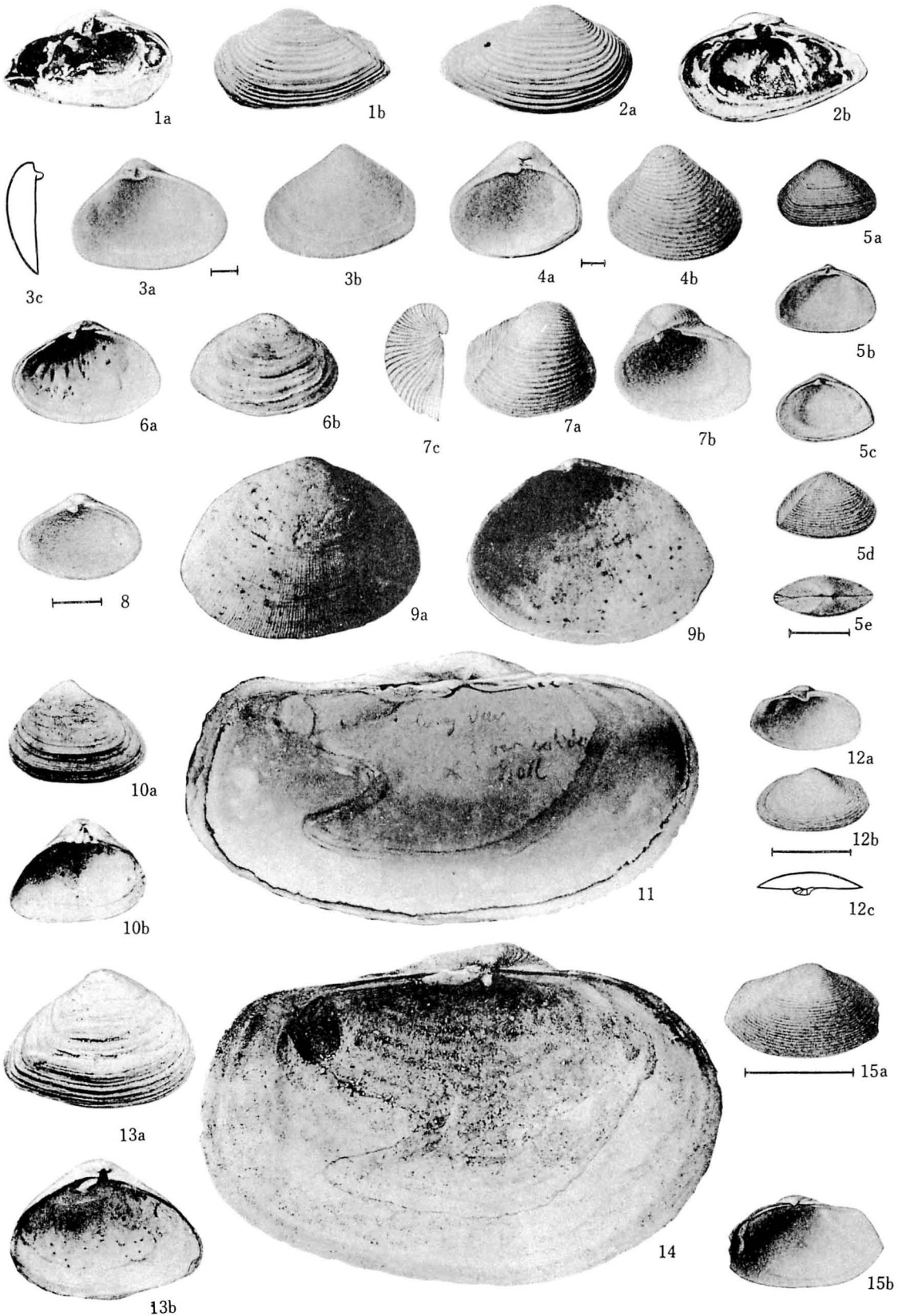
- 1 (a, b). *Solen strictus* GOULD. *Solen gouldi* CONRAD : YOKOYAMA, 1927, pl. LI, fig. 17. Loc. Ichikawa (CM24380)
- 2 (a, b). *Solen gordonis* YOKOYAMA, lectotype, YOKOYAMA, 1920, pl. VII, figs. 23 (a, b). Loc. Shimo-Miyata (CM20358)
- 3 (a, b). *Solen grandis* DUNKER : YOKOYAMA, 1922, pl. IX, fig. 1. Loc. Ôtake (CM21245)
- 4 (a, b), 5 (a, b). *Azorinus abbreviatus* (GOULD). *Solecortus abbreviatus* GOULD : YOKOYAMA, 1920, pl. VII, figs. 12 (a, b), 13 (a, b). Loc. Naganuma (CM20360, CM20361, missing)
- 6 (a, b). *Siliqua pulchella* (DUNKER) : YOKOYAMA, 1922, pl. IX, fig. 7. Loc. Ôtake (CM21254)
7. *Solecortus divaricatus* (LISCHKE) : YOKOYAMA, 1920, pl. VII, fig. 14. Loc. Ôtsu (CM20360)
- 8 (a, b). *Solen krusensternii* SCHRENCK : YOKOYAMA, 1922, pl. IX, fig. 5. Loc. Ôtake (CM21248)



## Explanation of Plate 55

### Figure

- 1 (a, b), 2 (a, b). *Caryocorbula* (*Solidicorbula*) *erythron* (LAMARCK). *Corbula erythron* LAMARCK: YOKOYAMA, 1922, pl. VI, figs. 9, 8. Loc. Ôtake (CM21263)
- 3 (a-c), 4 (a, b). *Varicorbula yokoyamai* HABE. Lectotype (fig. 4) and paralectotype (fig. 3) of *Corbula pygmaea* YOKOYAMA, 1922, pl. VII, figs. 4, 4a, 5. Loc. Tega (CM21185, CM21182)
- 5 (a-e). *Caryocorbula* (*Anisocorbula*) *venusta* (GOULD). *Corbula venusta* GOULD: YOKOYAMA, 1920, pl. VII, figs. 4 (a, b), 5 (a, b), 6. Loc. Yokosuka (CM20339)
- 6 (a, b). *Potamocorbula amurensis* (SCHRENCK). Lectotype of *Corbula pustulosa* YOKOYAMA, 1922, pl. VI, fig. 18. Loc. Ôtake (CM21175)
- 7 (a-c). *Varicorbula bifrons* (ADAMS (A.)). Lectotype of *Corbula substriata* YOKOYAMA, 1922, pl. VII, fig. 3. Loc. Shitô (CM21186)
8. *Potamocorbula amurensis* (SCHRENCK). Lectotype of *Corbula sematensis* YOKOYAMA, 1922, pl. VI, fig. 19. Loc. Shitô (CM21178)
- 9 (a-c). *Cryptomya* (*Venatomya*) *truncata* GOULD. Lectotype of *Cryptomya tachibanaensis* YOKOYAMA, 1927, pl. LII, fig. 5. Loc. Ichikawa (CM24367)
- 10 (a, b), 13 (a, b). *Potamocorbula amurensis* (SCHRENCK). Lectotype (fig. 10) and paralectotype (fig. 13) of *Corbula frequens* YOKORAMA, 1922, pl. VI, figs. 16, 17. Loc. Shitô (CM21170, CM21171)
- 11, 14. *Panopea japonica* ADAMS (A.). *Panopea generosa* (GOULD) sensu YOKOYAMA, 1922, pl. VI, figs. 15, 14. Locs. Tega (fig. 14) and Ôtake (fig. 11) (CM21167, CM21156)
- 12 (a-c), 15 (a, b). *Cryptomya* (*Cryptomya*) *busoensis* YOKOYAMA. Lectotype (fig. 12) and paralectotype (fig. 15) of *Cryptomya busoensis* YOKOYAMA, 1922, pl. VII, figs. 2, 2a, 1. Loc. Ôtake (CM21188, CM21187)
13. see fig. 10
14. see fig. 11
15. see fig. 12

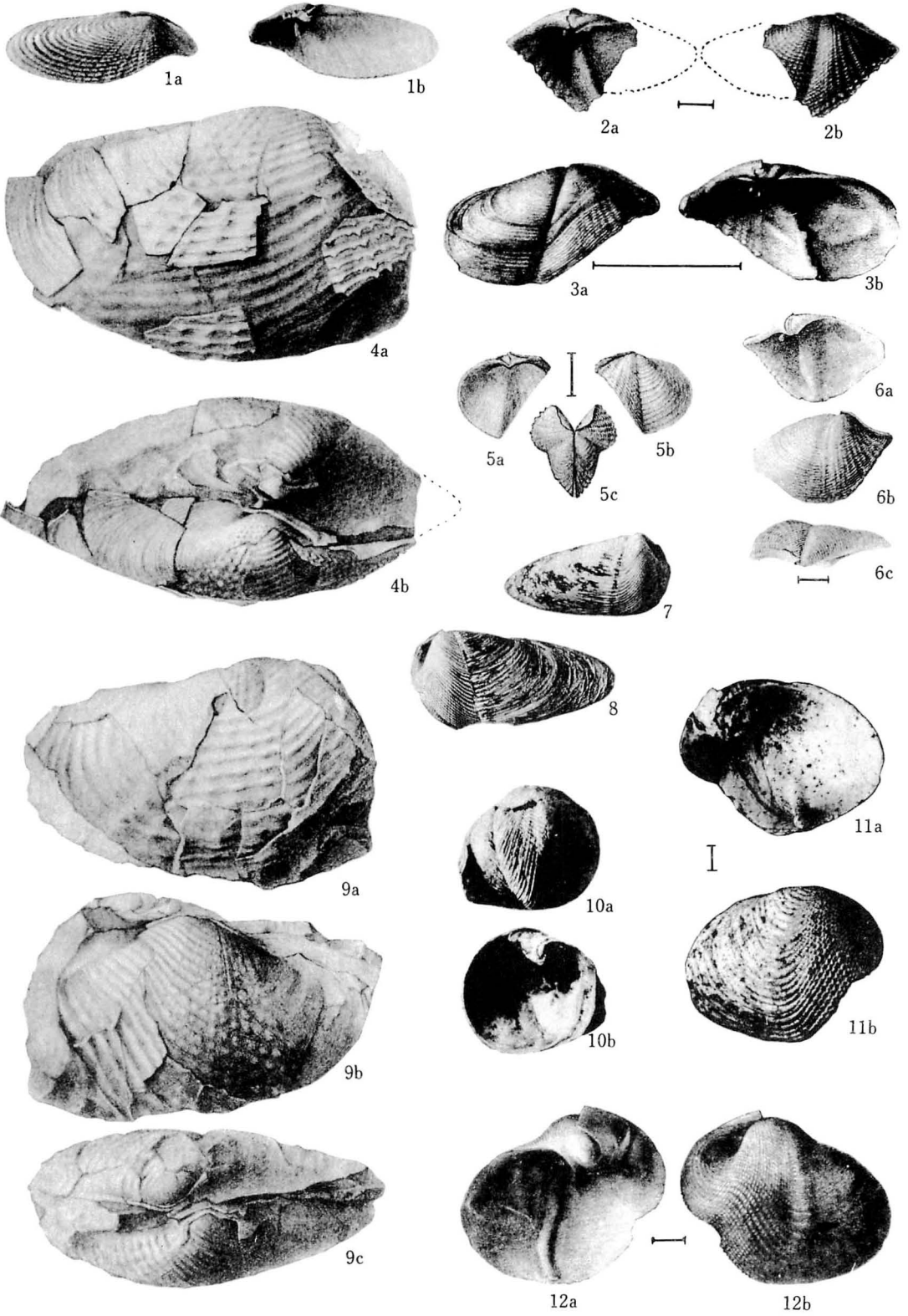


## Explanation of Plate 56

### Figure

- 1 (a, b). *Barnea (Anchomasa) manilensis inornata* (PILSBRY). *Pholas fragilis* SOWERBY sensu YOKOYAMA, 1920, pl. VI, figs. 29 (a, b). Loc. Ôtsu (CM20330)
- 2 (a, b). *Zirfaea subconstricta* (YOKOYAMA). Lectotype of *Jouannetia yabei* YOKOYAMA, 1924, pl. II, fig. 11. Loc. Numa (CM21899)
- 3 (a, b). *Zirfaea subconstricta* (YOKOYAMA). Holotype of *Pholas subconstricta* YOKOYAMA, 1924, pl. II, fig. 13. Loc. Numa (CM21903)
- 4 (a, b), 9 (a-c). *Umitakea japonica* (YOKOYAMA). Lectotype (fig. 9) and paralectotype (fig. 4) of *Pholadomya japonica* YOKOYAMA, 1920, pl. VI, figs. 30 (a, b), 31 (a-c). Loc. Naganuma (CM20337)
- 5 (a-c). *Nettastomella japonica* (YOKOYAMA). Lectotype of *Jouannetia japonica* YOKOYAMA, 1920, pl. VIII, figs. 1 (a-c). Loc. Ôtsu (CM20333)
- 6 (a-c). *Pholadidea (Penitella) kamakurensis* (YOKOYAMA). Lectotype of *Jouannetia kamakurensis* YOKOYAMA, 1922, pl. VI, fig. 10. Loc. Kamakura (living) (not Shitô as stated by YOKOYAMA, 1922) (CM21154)
- 7, 8. *Martesia striata cupula* (YOKOYAMA). Lectotype (fig. 7) and paralectotype (fig. 8) of *Martesia striata* (LINNÉ) var. *tokyoensis* YOKOYAMA, 1927, pl. XLVIII, figs. 3, 2. Loc. Tabata (CM23910, CM23909)
9. see fig. 4
- 10 (a, b). *Jouannetia (Jouannetia) cumingii* SOWERBY (G. B. II). *Jouannetia cumingii* (SOWERBY) : YOKOYAMA, 1924, pl. II, fig. 14. Loc. Numa (CM21901)
- 11 (a, b). *Martesia striata cupula* (YOKOYAMA). *Pholas cupula* YOKOYAMA : YOKOYAMA, 1927, pl. LII, fig. 1. Loc. Koyasu (CM24356)
- 12 (a, b). *Martesia striata cupula* (YOKOYAMA). Holotype of *Pholas cupula* YOKOYAMA, 1924, pl. II, fig. 15. Loc. Numa (CM21898)

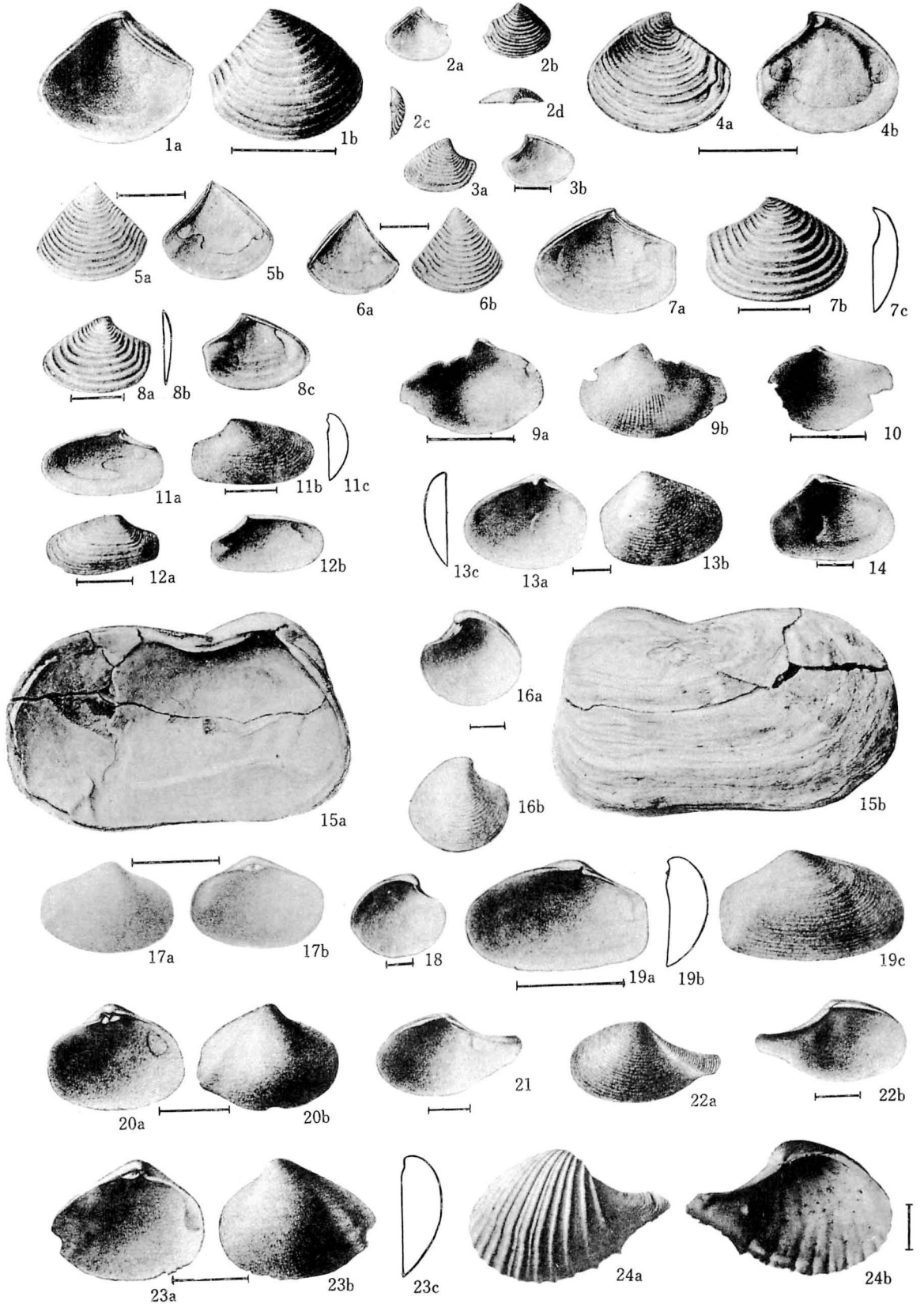




## Explanation of Plate 57

### Figure

- 1 (a, b), 4 (a, b). *Myadora japonica* HABE. *Myadora fluctuosa* GOULD sensu YOKOYAMA, 1922, pl. XIV, figs. 6, 7. Loc. Ôtake (CM21486, CM21487)
- 2 (a-d), 3 (a, b). *Myadora ikebei* HABE. *Myadora reeveana* SMITH sensu YOKOYAMA, 1920, pl. XI, figs. 12 (a, b), 13 (a-d). Loc. Koshiba (fig. 2) and Naganuma (fig. 3) (CM20501, CM20502)
4. see fig. 1.
- 5 (a, b), 6 (a, b). *Myadora yokoyamai* (OTUKA MS.) HABE, lectotype (fig. 6) and paralectotype (fig. 5). *Myadora triangularis* A. ADAMS sensu YOKOYAMA, 1920, pl. XI, figs. 15 (a, b), 14 (a, b). Loc. Naganuma (CM20504, CM20503)
- 7 (a-c), 8 (a-c). *Myadora ikebei* HABE, paratypes. *Myadora reeveana* SMITH sensu YOKOYAMA, 1922, pl. XIV, figs. 8, 8a, 11, 11a. Loc. Shitô (CM21493, CM 21494)
- 9 (a, b), 10. *Lyonsia praetenuis* DUNKER : YOKOYAMA, 1922, pl. XIV, figs. 10, 9. Loc. Ôtake (CM21483, CM21482)
- 11 (a-c), 12 (a, b). *Thraciopsis transmontana* (YOKOYAMA). Lectotype (fig. 11) and paralectotype (fig. 12) of *Thracia transmontana* YOKOYAMA, 1922, pl. XIV, figs. 13, 13a, 14. Loc. Shitô (CM21501, CM21502)
- 13 (a-c), 14. *Parvithracia sematana* (YOKOYAMA). Lectotype (fig. 14) and paralectotype (fig. 18) of *Thracia sematana* YOKOYAMA, 1922, pl. XIV, figs. 17, 17a, 18. Loc. Shitô (CM21507, CM21508)
- 15 (a, b). *Entodesma naviculoides* YOKOYAMA, holotype, YOKOYAMA, 1922, pl. VI, fig. 11. Loc. Shitô (CM21485)
- 16 (a, b), 18. *Lyonsiella (Simplicicordia) trigonata* (YOKOYAMA). Lectotype (fig. 18) and paralectotype (fig. 16) of *Thyasira trigonata* YOKOYAMA, 1922, pl. IX, figs. 11, 12. Loc. Shitô (CM21417, CM21418)
- 17 (a, b). *Poromya flexuosa* YOKOYAMA. Paratype of *Corbula sematensis* YOKOYAMA, 1922, pl. VI, figs. 20. Loc. Shitô
18. see fig. 16.
- 19 (a-c). *Cyathodonta (Eximiothracia) consinna* (GOULD). *Thracia papyracea* POLI sensu YOKOYAMA, 1922, pl. XIV, figs. 12, 12a. Loc. Ôtake (CM21498)
- 20 (a, b), 23 (a-c). *Poromya flexuosa* YOKOYAMA, lectotype (fig. 23) and paralectotype (fig. 20), YOKOYAMA, 1922, pl. XIV, figs. 16, 15. Loc. Shitô (CM21511, CM21510)
- 21, 22 (a, b). *Cuspidaria (Plectodon) ligula* YOKOYAMA. Lectotype (fig. 22) and paralectotype (fig. 21) of *Cuspidaria ligula* YOKOYAMA, 1922, pl. XIV, figs. 4, 3. Loc. Shitô (CM21480, CM21479)
23. see fig. 20.
- 24 (a, b). *Cardiomya (Cardiomya) gouldiana septentrionalis* (KURODA). *Cuspidaria (Cardiomya) gouldiana* HINDS sensu YOKOYAMA, 1927, pl. XLIX, fig. 7. Loc. Shinagawa (CM24096)



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