The University Museum, The University of Tokyo

Material Reports No.33

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タイプおよび図示標本目録

第４部　補　　遺 (2)

CATALOGUE OF TYPE AND ILLUSTRATED SPECIMENS IN THE DEPARTMENT OF HISTORICAL GEOLOGY AND PALAEONTOLOGY OF THE UNIVERSITY MUSEUM, UNIVERSITY OF TOKYO

Part 4. SUPPLEMENT (2)

by Takeo ICHIKAWA

平成７年　東京

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FOREWORD

It is not without saying that the advancement of natural history is a barometer of cultural maturity of a given country. Almost all major museums in Europe and U. S. A. belong to universities and/or have a Ph. D. program. A large number of collections reposited in these musrums were analyzed and described by previous workers and are, therefore, reliable basis of their conclusions. These previously described collections are favorably maintained by competent curators mainly for future research. Without such a curating system, we cannot re-examine ant specimens effectively.

The University Museum, University of Tokyo has one of the largest paleontological collections in Japan, ehich includes more than 25,000 specimens described by many geologists and paleontologists belonged to or related to the university since the last century. Owing much to the laborious and time-consuming effort by Mr. Takeo Ichikawa, these paleontological specimens are housed in a good condition. In the 1960's, Mr. Ichikawa, as a research assistant of the Geological Institute of the University of Tokyo, has engaged in curating these type and figured specimens under the guidance of Professor Teiichi Kobayashi. Since that period he has been published the catalogues of the specimens on three occasions (Part 1 with Itaru Hayami in 1978, Part 2 in 1983, Part 3 in 1988) in the yellow-colored Material Reports from the University Museum under the supervision of Professor Teturo Hanai and Itaru Hayami. These catalogues, currently called "yellow books" by researchers in the world, are extremely useful for every visiting scientist to access and re-examine any published material.

Mr. Ichikawa officially retired in March, 1987, but is continuously working at the museum three days a week with a mission as a volunteer. After the publication of Part 3, six years have passed during which many specimens have been described and reposited in the University Museum. He has recently finished to catalogue these additional specimens, in response to warm encouragement from Professor Hayami. I congratulate Mr. Ichikawa on the completion of his manuscript and wish to praise his significant contribution as a basis for the further development of paleontology and related fields of natural history.

September, 1944

Kazushige Tanabe

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CATALOGUE OF TYPE AND ILLUSTRATED SPECIMENS IN THE DEPARTMENT OF HISTORICAL GEOLOGY AND PALEONTOLOGY OF THE UNIVERSITY MUSEUM, UNIVERSITY OF TOKYO

PART IV, SUPPLEMENT (2)

by

Takeo ICHIKAWA

Introduction

This catalogue is a continuation of Part 1 (Ichikawa and Hayami, 1978), Part 2 (Ichikawa, 1983) and Part 3 (Ichikawa, 1988) of the same main title, dealing with newly curated (and restudied) type and described specimens in the Department of Historical Geology and Paleontology of the University Museum.

The following kinds of specimens are treated in this part:

1) Fossils and Recent specimens described after 1983.
2) Described specimens newly found in old disordered collections of this department.
3) Already catalogued specimens, the illustration of which was newly shown or reproduced with indication of repository.

The purpose and format of this catalogue are the same as those of the preceding parts; newly curated and restudied specimens are listed by published papers arranged in alphabetical order of authors (and dates). Taxonomic names are uncritically listed except for some obvious typographical errors. Type categories were examined as possible, though their correct judgement is often beyond my ability.

INTRODUCTION

The listed specimens (including missing ones) are 2,006 in total and made up of many phyla of various ages as follows:

Paleozoic Protista (with prefix FF)	105
Paleozoic Porifera (with prefix PS)	3
Paleozoic Mollusca (with prefix PM)	82
Paleozoic Arthropoda (with prefix PA)	33
Mesozoic Mollusca (with prefix MM)	842
Cenozoic Brachiopoda (with prefix CB)	7
Cenozoic Problematica (with prefix CW)	7
Cenozoic Mollusca (with prefix CM)	84
Cenozoic Arthropoda (with prefix CA)	167
Cenozoic Echinodermata (with prefix CE)	22
Recent Brachiopoda (with prefix RB)	13
Recent Mollusca (with prefix RM)	539
Recent Arthropoda (with prefix RA)	63
Recent Echinodermata (with prefix RE)	39

These specimens (except already curated ones) are arranged in the type room in the order of this catalogue.

I express my sincere gratituede to Professor Emeritus Tetsuro Hanai for his continuous warm encouragement since the beginning of this curatorial project. I am also much indebted to Professor Emeritus Itaru Hayami for his kind advice and critical reading the first draft with correction of misspelling of taxonomic name and also with checking of type categories in terms of the International Codes of Zoological Nomenclature. Professor Minoru Utada and many other member of the University Museum and Professor Kazushige Tanabe and Dr. Tatsuo Oji of the Geological Institute kindly provided me with various facilities to promote my curatorial work.

References

Ichikawa, T. and Hayami, I. (1978): Catalogue of type and illustrated specimens in the Department of Historical Geology and Palaeontology of the University Museum, University of Tokyo. Part I. Paleozoic and Mesozoic fossils. *Univ. Mus. Univ. Tokyo, Mater. Rept.*, no.2, pp. i-x, 1-396.

Ichikawa, T. (1983): Catalogue of type and illustrated specimens in the Department of Historical Geology and Palaeontology of the University Museum, University of Tokyo. Part II. Cenozoic fossils and Recent specimens. *Univ. Mus. Univ. Tokyo, Mater. Rept.*, no.9, pp.i-iv, 1-536.

Ichikawa, T. (1988): Catalogue of type and illustrated specimens in the Department of Historical Geology and Palaeontology of the University Museum, University of Tokyo, Part III, Supplement (L), *Univ. Mus. Univ. Tokyo, Mater. Rept.*, no.15, pp.i-iv, 1-273.

Registration of specimens

In ooder to meet the convenience of visitors and investigators we state here the following traditional policy of registration of specimens in the Department of Historical Geology and Palaeontology, the University Museum, University of Tokyo.

1) The following rules are concerned only with described specimens (including replicas) of organisms, whether living or fossil, which are preserved or to be preserved in the Department.

2) Each individual (or colony) of type and illustrated specimens has one specific register number. (therefore, the same number is given to the mould and cast, if they originated from one and the same individual.) Different individuals on the same inseparable slab or block should be distinguished by different registration number or at least by different suffix a, b, c,.... As to described but unfigured specimens, however, more than one individual may be treated collectively under a single registration number.

3) Two capital letters inducating the age (Era) and taxonomic position (Phylum, etc.) should be prefixed to each registration number.

First letter (age):

P: Paleozoic, M: Mesozoic, C: Cenozoic, R: Recent

Second letter (taxonomic position)

P: Plantae, F: Protozoa, S: Porifera, C: Coelenterata, B: Brachiopoda and Bryozoa, M: Mollusca, A: Arthropoda, E: Echinodermata, H: Hemicordata, V: Vertebrata, W: "Worms" and Problematica

Once determined the prefix is not altered, even if the age or taxonomic position is changed after registration.

4) Deposition and registration of deacribed specimens should be made by the author of each paper in consultation with the curator in the Department. The author (or curator entrusted by the author) is requested to enter the necessary details (taxonomic name, locality, horizon, reference with numbers of page, plate and figure, etc.) in a register book. Without this procedure any registration number cited in papers might be invalidated.

5) The author is requeated to present two copies of the relevant publication to the Department for curatorial purposes.

LIST OF TYPE AND ILLUSTRATED SPECIMENS BY PAPERS

The format of this catalogue is fundamentally in agreement with the method of arrangement in the type room of this Department. Relevant descriptive papers are alphabetically arranged by author names (and dates), and the type and illustrated specimens in the same paper are listed in order of registration numbers. Unfigured specimens are also separately listed as possible. Some missing specimens, mentioned in old papers, which are not yet registered, are not listed here. Taxonomic names are uncritically listed, since their modernization over so diverse taxonomic groups is clearly beyond the ability of curators. Only some typographical, grammatical and other evident errors in their original spelling are corrected. Categories of type specimens, namely holotype (by original designation or by monotypy), paratype, syntype, lectotype, paralectotype and neotype, are critically examined as possible in accordance with the International Codes of Zoological Nomenclature. However, the true status of "syntypes" in this list cannot always be confirmed, because some of them may have been designated as lectotypes and paralectotypes by subsequent taxonomic studies at home and abroad. The registration numbers with an asterisk indicate that only replicas (plaster cast, etc.) of original specimens are preserved or to be preserved in this Department. Horizons and localities are, of course, indispensable information for further investigations, but they are not mentioned in this catalogue for brevity, because the curators believe that most investigators and visitors will observe these described specimens after having seen the original papers. In most cases the curators can hardly give any more detailed information about the horizons and localities than written in the original descriptions.

Ando, H. (1987): Paleobiological study of the Late Triassic bivalve Monotis from Japan. *Univ. Mus. Univ. Tokyo, Bull.*, no.30, pls.1-14, text-figs.1-38.

MM15710. *Monotis scutiformis* (Teller), p.82, pl.4, fig.1. [see also Ando (1984)]

MM15711. *Monotis scutiformis* (Teller), p.82, pl.4, fig.3. [ditto]

MM15712. *Monotis scutiformis* (Teller), p.82, pl.4, fig.7. [ditto]

MM15713. *Monotis scutiformis* (Teller), p.82, pl.4, fig.2 right. [ditto]

MM15714. *Monotis scutiformis* (Teller), p.82, pl.4, fig.6. [ditto]

MM15715. *Monotis ochotica densistriata* (Teller), p.86, pl.5, fig.4.[ditto]

MM15717. *Monotis ichotica densistriata* (Teller), p.86, pl.5, fig.1.[ditto]

MM15720. *Monotis ochotica ochotica* (Keyserling), p.87, pl.5, fig.8.[ditto]

MM15726. *Monotis ochotica ochotica* (Keyserling), p.87, pl.5, fig.20.[ditto]

MM15727. *Monotis ochotica ochotica* (Keyserling), p.87, pl.5, fig.16.[ditto]

MM15728. *Monotis zabaikalica* (Kiparisova), p.89, pl.13, fig.10; text-fig. 33. [ditto]

MM15729. *Monotis zabaikalica* (Kiparisova), p.89, pl.13, fig.19; text-fig. 33. [ditto]

MM15730. *Monotis zabaikalica* (Kiparisova), p.89, pl.13, fig.18; text-fig. 33. [ditto]

MM15731. *Monotis zabaikalica* (Kiparisova), p.89, pl.14, fig.8; text-fig. 33. [ditto]

MM15732. *Monotis zabaikalica* (Kiparisova), p.89, pl.14, fig.4. [ditto]

MM15733. *Monotis zabaikalica* (Kiparisova), p.89, pl.14, fig.9; text-fig. 33. [ditto]

MM15734. *Monotis zabaikalica* (Kiparisova), p.89, pl.14, fig.15. [ditto]

MM15735. *Monotis zabaikalica* (Kiparisova), p.89, pl.14, fig.11. [ditto]

MM15736. *Monotis zabaikalica* (Kiparisova), p.89, pl.14, fig.14. [ditto]

MM15737. *Monotis zabaikalica* (Kiparisova), p.89, pl.14, fig.16. [ditto]

MM15738. *Monotis zabaikalica* (Kiparisova), p.89, pl.14, fig.17. [ditto]

MM17578a. *Monotis scutiformis* (Teller), p.82, pl.4, fig.2 left.

MM17578b. *Monotis scutiformis* (Teller), p.82, pl.4, fig.4.

MM17578c. *Monotis scutiformis* (Teller), p.82, pl.4, fig.5.

MM17581a. *Monotis scutiformis* (Teller), p.82, pl.4, fig.8.

MM17581b. *Monotis scutiformis* (Teller), p.82, pl.4, figs.10,11.

MM17581c. *Monotis scutiformis* (Teller), p.82, pl.4, fig.14.

MM17583. *Monotis scutiformis* (Teller), p.82, pl.4, fig.13.

Ando, H. (1987): continued

MM17584. *Monotis scutiformis* (Teller), p.82, pl.4, fig.9.

MM17585. *Monotis scutiformis* (Teller), p.82, pl.4, fig.12.

MM17586a. *Monotis scutiformis* (Teller), p.82, pl.4, fig.18.

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MM17586c. *Monotis scutiformis* (Teller), p.82, pl.4, fig.22.

MM17586d. *Monotis scutiformis* (Teller), p.82, pl.4, fig.23.

MM17586e. *Monotis scutiformis* (Teller), p.82, pl.4, fig.24.

MM17587a. *Monotis scutiformis* (Teller), p.82, pl.4, fig.15.

MM17587b. *Monotis scutiformis* (Teller), p.82, pl.4, fig.16.

MM17587c. *Monotis scutiformis* (Teller), p.82, pl.4, fig.17.

MM17587d. *Monotis scutiformis* (Teller), p.82, pl.4, fig.20.

MM17587e. *Monotis scutiformis* (Teller), p.82, pl.4, fig.21.

MM17590a. *Monotis ochotiac densistriata* (Teller), p.86, pl.5, fig.2.

MM17590b. *Monotis ochotica densistriata* (Teller), p.86, pl.5, fig.3.

MM17592. *Monotis ochotica densistriata* (Teller), p.86, pl.5, fig.5. (missing)

MM17593a. *Monotis ochotica densistriata* (Teller), p.86, pl.2, fig.10.

MM17593b. *Monotis ochotica densistriata* (Teller), p.86, pl.2, fig.11.

MM17593c. *Monotis ochotica densistriata* (Teller), p.86, pl.2, fig.12.

MM17596. *Monotis ochotica densistriata* (Teller), p.86, pl.7, figs.21-23.

MM17597a. *Monotis ochotica densistriata* (Teller), p.86, pl.7, fig.24.

MM17597b. *Monotis ochotica densistriata* (Teller), p.86, pl.7, fig.25.

MM17599. *Monotis ochotica densistriata* (Teller), p.86, pl.11, fig.1.

MM17600a. *Monotis ochotica densistriata* (Teller), p.86, pl.11, fig.2.

MM17600b. *Monotis ochotica densistriata* (Teller), p.86, pl.11, fig.3.

MM17600c. *Monotis ochotica densistriata* (Teller), p.86, pl.11, fig.4.

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MM17603a. *Monotis ochotica ochotica* (Keyserling), p.87, pl.5, fig.6.

MM17603b. *Monotis ochotica ochotica* (Keyserling), p.87, pl.5, fig.7.

MM17605a. *Monotis ochotica ochotica* (Keyserling), p.87, pl.5, fig.9.

MM17605b. *Monotis ochotica ochotica* (Keyserling), p.87, pl.5, fig.10. (missing)

MM17605c. *Monotis ochotica ochotica* (Keyserling), p.87, pl.5, fig.11.

MM17605d. *Monotis ochotica ochotica* (Keyserling), p.87, pl.5, fig.12.

Ando, H. (1987): continued

MM17605e. *Monotis ochotica ochotica* (Keyserling), p.87, pl.5, fig.13.

MM17605f. *Monotis ochotica ochotica* (Keyserling), p.87, pl.5, fig.14. (missing)

MM17605g. *Monotis ochotica ochotica* (Keyserling), p.87, pl.5, fig.15.

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MM17606b. *Monotis ochotica ochotica* (Keyserling), p.87, pl.5, fig.18.

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MM17608a. *Monotis ochotica ochotica* (Keyserling), p.87, pl.6, figs.1,6.

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MM17608c. *Monotis ochotica ochotica* (Keyserling), p.87, pl.6, fig.3.

MM17608d. *Monotis ochotica ochotica* (Keyserling), p.87, pl.6, fig.4.

MM17608e. *Monotis ochotica ochotica* (Keyserling), p.87, pl.6, fig.5.

MM17608f. *Monotis ochotica ochotica* (Keyserling), p.87, pl.6, figs.8,9.

MM17608g. *Monotis ochotica ochotica* (Keyserling), p.87, pl.6, figs.10,11.

MM17608h. *Monotis ochotica ochotica* (Keyserling), p.87, pl.6, fig.12.

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MM17610e. *Monotis ochotica ochotica* (Keyserling), p.87, pl.13, fig.5.

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MM17620a. *Monotis ochotica ochotica* (Keyserling), p.87, pl.7, fig.17.
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MM17641c. *Monotis ochotica ochotica* (Keyserling), p.87, pl.12, fig.5.
MM17641d. *Monotis ochotica ochotica* (Keyserling), p.87, pl.12, fig.6.
MM17641e. *Monotis ochotica ochotica* (Keyserling), p.87, pl.12, fig.7.
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MM17642d. *Monotis ochotica ochotica* (Keyserling), p.87, pl.12, fig.14.

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MM17643a. *Monotis ochotica ochotica* (Keyserling), p.87, pl.12, fig.15.
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MM17648a. *Monotis ochotica ochotica* (Keyserling), p.87, pl.9, fig.9.
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MM17648h. *Monotis ochotica ochotica* (Keyserling), p.87, pl.9, fig.17.

Ando, H. (1987): continued

MM17648i. *Monotis ochotica ochotica* (Keyserling), p.87, pl.9, fig.18.
MM17648j. *Monotis ochotica ochotica* (Keyserling), p.87, pl.9, fig.19.
MM17648k. *Monotis ochotica ochotica* (Keyserling), p.87, pl.9, fig.20.
MM17648l. *Monotis ochotica ochotica* (Keyserling), p.87, pl.9, fig.21.
MM17648m. *Monotis ochotica ochotica* (Keyserling), p.87, pl.9, fig.22.
MM17648n. *Monotis ochotica ochotica* (Keyserling), p.87, pl.10, fig.1.
MM17648o. *Monotis ochotica ochotica* (Keyserling), p.87, pl.10, fig.2.
MM17648p. *Monotis ochotica ochotica* (Keyserling), p.87, pl.10, fig.3.
MM17648q. *Monotis ochotica ochotica* (Keyserling), p.87, pl.10, fig.4.
MM17648r. *Monotis ochotica ochotica* (Keyserling), p.87, pl.10, fig.5.
MM17648s. *Monotis ochotica ochotica* (Keyserling), p.87, pl.10, figs.6,7.
MM17648t. *Monotis ochotica ochotica* (Keyserling), p.87, pl.10, fig.8.
MM17648u. *Monotis ochotica ochotica* (Keyserling), p.87, pl.10, fig.9.
MM17649a. *Monotis ochotica ochotica* (Keyserling), p.87, pl.9, figs.1,2.
MM17649b. *Monotis ochotica ochotica* (Keyserling), p.87, pl.9, fig.3.
MM17649c. *Monotis ochotica ochotica* (Keyserling), p.87, pl.9, fig.4.
MM17649d. *Monotis ochotica ochotica* (Keyserling), p.87, pl.9, fig.5.
MM17649e. *Monotis ochotica ochotica* (Keyserling), p.87, pl.9, fig.6.
MM17649f. *Monotis ochotica ochotica* (Keyserling), p.87, pl.9, figs.7,8; text-fig.27.
MM17651a. *Monotis zabaikalica* (Kiparisova), p.89, pl.13, fig.11.
MM17651b. *Monotis zabaikalica* (Kiparisova), p.89, pl.13, fig.12.
MM17651c. *Monotis zabaikalica* (Kiparisova), p.89, pl.13, fig.13.
MM17651d. *Monotis zabaikalica* (Kiparisova), p.89, pl.13, fig.14.
MM17651e. *Monotis zabaikalica* (Kiparisova), p.89, pl.13, fig.15.
MM17651f. *Monotis zabaikalica* (Kiparisova), p.89, pl.13, fig.16.
MM17651g. *Monotis zabaikalica* (Kiparisova), p.89, pl.13, fig.17.
MM17651h. *Monotis zabaikalica* (Kiparisova), p.89, pl.13, fig.20.
MM17652a. *Monotis zabaikalica* (Kiparisova), p.89, pl.14, fig.1.
MM17652b. *Monotis zabaikalica* (Kiparisova), p.89, pl.14, fig.2.
MM17652c. *Monotis zabaikalica* (Kiparisova), p.89, pl.14, fig.3.
MM17652d. *Monotis zabaikalica* (Kiparisova), p.89, pl.14, fig.5.
MM17652e. *Monotis zabaikalica* (Kiparisova), p.89, pl.14, fig.6.
MM17652f. *Monotis zabaikalica* (Kiparisova), p.89, pl.14, fig.7.

Ando, H. (1987): continued

MM17653a. *Monotis zabaikalica* (Kiparisova), p.89, pl.14, fig.10.

MM17653b. *Monotis zabaikalica* (Kiparisova), p.89, pl.14, fig.12. (missing)

MM17653c. *Monotis zabaikalica* (Kiparisova), p.89, pl.14, fig.13. (missing)

MM17655. *Monotis zabaikalica* (Kiparisova), p.89, pl.14, fig.18.

MM17656a. *Monotis mabara* (Kobayashi and Ichikawa), p.91, pl.10, fig.16.

MM17656b. *Monotis zabaikalica* (Kiparisova), p.89, pl.13, fig.9.

MM17658a. *Monotis mabara* (Kobayashi and Ichikawa), p.91, pl.10, fig.12.

MM17658b. *Monotis mabara* (Kobayashi and Ichikawa), p.91, pl.10, fig.13.

MM17658c. *Monotis mabara* (Kobayashi and Ichikawa), p.91, pl.10, fig.14.

MM17658d. *Monotis mabara* (Kobayashi and Ichikawa), p.91, pl.10, fig.15 right.

MM17658e. *Monotis zabaikalica* (Kiparisova), p.89, pl.13, fig.7.

MM17658f. *Monotis zabaikalica* (Kiparisova), p.89, pl.13, fig.8.

MM17662. *Monotis mabara* (Kobayashi and Ichikawa), p.91, pl.10, fig.11 left.

MM17664. *Monotis mabara* (Kobayashi and Ichikawa), p.91, pl.10, fig.10.

MM17665a. *Monotis mabara* (Kobayashi and Ichikawa), p.91, pl.12, fig.20.

MM17666. *Monotis mabara* (Kobayashi and Ichikawa), p.91, pl.12, fig.19.

MM17668a. *Monotis mabara* (Kobayashi and Ichikawa), p.91, pl.12, fig.17.

MM17668b. *Monotis mabara* (Kobayashi and Ichikawa), p.91, pl.12, fig.18.

MM17669A. *Monotis mabara* (Kobayashi and Ichikawa), p.91, pl.12, fig.21.

MM17669Ba. *Monotis mabara* (Kobayashi and Ichikawa), p.91, pl.12, fig.22.

MM17669Bb. *Monotis mabara* (Kobayashi and Ichikawa), p.91, pl.12, fig.23.

MM17669Bc. *Monotis mabara* (Kobayashi and Ichikawa), p.91, pl.12, fig.24.

MM17669Bd. *Monotis mabara* (Kobayashi and Ichikawa), p.91, pl.12, fig.25.

The following specimens, which were mentioned but not illustrated in this paper, are also preserved in this museum.

Monotis ochotica ochotica (Keyserling): MM5069 [see also Takagi (1944)], MM5267, MM5271-5275, MM5281, MM5283-5287 [see also Kobayashi and Ichikawa (1949c)], MM6926-6935 [see also Kanagawa and Ando (1983)], MM17602, MM17603, MM17604, MM17605, MM17606, MM17607, MM17608, MM17609, MM17610, MM17611, MM17612, MM17613, MM17614, MM17615, MM17616, MM17617, MM17618, MM17619, MM17620, MM17621, MM17622, MM17623, MM17624, MM17625, MM17626, MM17627, MM17628, MM17629, MM17630, MM17631, MM17632, MM17633, MM17634, MM17635, MM17636, MM17637, MM17638, MM17639, MM17640, MM17641, MM17642, MM17643, MM17644, MM17645, MM17646, MM17647, MM17648, MM17649

Ando, H. (1987): continued

Monotis zabaikalica (Kiparisova): MM5253-5258, MM5260, MM5261 [see also Kobayashi and Ichikawa (1949c)], MM17650, MM17651, MM17652, MM17653, MM17654, MM17655, MM17656, MM17657, MM17658, MM17659, MM17660, MM17661, MM17662, MM17663

Monotis mabara (Kobayashi and Ichikawa): MM5276-5278 [see also Kobayashi and Ichikawa (1949c)], MM17656, MM17658, MM17659, MM17660, MM17662, MM17663, MM17664, MM17665, MM17666, MM17667, MM17668, MM17669A, MM17669B, MM17669C

Monotis ochotica densistriata (Teller): MM5283 [see also Kobayashi and Ichikawa (1949c)], MM5369, MM5370 [see also Ichikawa (1951b)], MM17588, MM17589, MM17590, MM17591, MM17592, MM17593, MM17594, MM17595, MM17596, MM17597, MM17598, MM17599, MM17600, MM17601

Monotis scutiformis (Teller): MM17576, MM17577, MM17578, MM17579, MM17580 (missing), MM17581, MM17582, MM17583, MM17584, MM17585, MM17586, MM17587

Ando, H. (1988): Mode of occurrence of Otapiria dubia (bibalvia) from the upper Triassic of west Kyushu, southwest Japan. *Saito Ho-on Kai special publication (Prof. Kotaka, T. commemorative vol.)*, pp.265-279, pls.1,2, text-figs.1-5.

MM18227. *Otapiria dubia* (Ichikawa), p.275, pl.1, fig.1; text-fig.5b-c.

MM18228. *Otapiria dubia* (Ichikawa), p.275, pl.1, fig.2.

MM18229. *Otapiria dubia* (Ichikawa), p.275, pl.1, figs.3,4.

MM18230. *Otapiria dubia* (Ichikawa), p.275, pl.1, fig.5.

MM18231. *Otapiria dubia* (Ichikawa), p.275, pl.1, fig.6.

MM18232. *Otapiria dubia* (Ichikawa), p.275, pl.1, fig.7.

MM18233. *Otapiria dubia* (Ichikawa), p.275, pl.1, fig.8.

MM18234. *Otapiria dubia* (Ichikawa), p.275, pl.1, figs.9,10.

MM18235. *Otapiria dubia* (Ichikawa), p.275, pl.1, figs.11,12.

MM18236. *Otapiria dubia* (Ichikawa), p.275, pl.1, figs.13,14.

MM18237. *Otapiria dubia* (Ichikawa), p.275, pl.1, fig.15.

MM18238. *Oxytoma mojsisovicsi* Teller, p.268, pl.1, fig.16.

MM18239. *Tosapecten suzukii* (Kobayashi), p.268, pl.1, fig.17.

MM18240. *Palaeoneilo* sp., p.268, pl.1, fig.18.

MM18241. *Halobia* sp., p.268, pl.1, fig.19.

MM18242. *Otapiria dubia* (Ichikawa), p.268, pl.2, figs.1-4.

MM18243. *Otapiria dubia* (Ichikawa), p.270, pl.2, fig.5, text-fig.2.

MM18244. *Otapiria dubia* (Ichikawa), p.270, pl.2, fig.6.

Chiba, S. (1989): Taxonomy and morphologic diversity of Mandarina (Pulmonata) in the Bonin islands. *Trans. Proc. Palaeont. Soc. Japan*, N. S., no.155, pp.218-251, 18 figs.

RM18403a. *Mandarina mandarina* (Sowerby), p.229, fig.8-1.
CM18405a. *Mandarina nola* Chiba, p.231, fig.8-2, Holotype.
RM18406a. *Mandarina chichijimana* Chiba, p.231, fig.8-7, Paratype.
CM18407a. *Mandarina chichijimana* Chiba, p.231, fig.8-8, Paratype.
CM18407b. *Mandarina chichijimana* Chiba, p.231, fig.8-10, Paratype.
RM18415a. *Mandarina chichijimana* Chiba, p.231, fig.8-5, Holotype.
CM18418a. *Mandarina chichijimana* Chiba, p.231, fig.8-6, Paratype.
RM18419a. *Mandarina chichijimana* Chiba, p.231, fig.8-9, Paratype.
RM18421a. *Mandarina hirasei* Pilsbry, p.234, fig.8-3.
CM18426a. *Mandarina io* Chiba, p.235, fig.8-4, Holotype.
CM18428a. *Mandarina luhuana* (Sowerby), p.235, fig.9-1.
CM18429a. *Mandarina luhuana* (Sowerby), p.235, fig.9-2.
CM18430a. *Mandarina luhuana* (Sowerby), p.235, fig.9-3.
CM18431. *Mandarina luhuana* (Sowerby), p.235, fig.9-4.
CM18432a. *Mandarina titan* Chiba, p.237, fig.9-5, Holotype.
RM18434a. *Mandarina ponderosa* Pilsbry, p.238, fig.11-7.
RM18437a. *Mandarina ponderosa* Pilsbry, p.238, fig.11-8.
RM18438a. *Mandarina ponderosa* Pilsbry, p.238, fig.11-9.
RM18439a. *Mandarina ponderosa* Pilsbry, p.238, fig.11-6.
CM18443a. *Mandarina ponderosa* Pilsbry, p.238, fig.11-10.
CM18445a. *Mandarina aureola* Chiba, p.239, fig.11-2, Paratype.
RM18448a. *Mandarina aureola* Chiba, p.239, fig.11-1, Holotype.
CM18452a. *Mandarina aureola* Chiba, p.239, fig.11-3, Paratype.
RM18457a. *Mandarina polita* Chiba, p.240, fig.11-4, Holotype.
CM18458a. *Mandarina polita* Chiba, p.240, fig.11-5, Paratype.
RM18460a. *Mandarina hahajimana* Pilsbry, p.241, fig.11-15.
RM18461a. *Mandarina hahajimana* Pilsbry, p.241, fig.11-14.
RM18465a. *Mandarina exoptata* Pilsbry, p.242, fig.11-13.
RM18467a. *Mandarina suenoae* Minato, p.242, fig.11-11.
CM18468a. *Mandarina hayamii* Chiba, p.243, fig.11-12, Holotype.
RM18469a. *Mandarina* sp. p.244, fig.11-16.

Chiba, S. (1989): continued

The following specimens, which were mentioned but not illustrated in this paper, are also preserved in this museum.

Mandarina aureola Chiba: RM18444, CM18445, RM18446, CM18447, RM18448, RM18449, RM18450, CM18451, CM18452, Paratypes

Mandarina exoptata Pilsbry: RM18465

Mandarina chichijimana Chiba: RM18406, CM18407, RM18408, RM18409, RM18410, RM18411, RM18412, RM18413, RM18414, RM18415, CM18516, CM18417, CM18418, RM18419, Paratypes

Mandarina hahajimana Pilsbry: RM18459, RM18460, RM18461, RM18462, RM18463, RM18464

Mandarina hayamii Chiba: CM18468b, CM18468, Paratypes

Mandarina hirasei Pilsbry: RM18420, RM18421, CM18422, RM18423, CM18424, RM18425

Mandarina io Chiba: CM18426b, CM18426, Paratypes

Mandarina luhuana (Sowerby): CM18427, CM18428, CM18429, CM19430

Mandarina mandarina (Sowerby): RM18400, RM18401, RM18402, RM18403, RM18404

Mandarina nola Chiba: CM18405, Paratypes

Mandarina polita Chiba: RM18453, RM18454, RM18455, RM18456, RM18457, CM18458, Paratypes

Mandarina ponderosa Pilsbry: RM18433, RM18434, CM18435, CM18436, RM18437, RM18438, RM18439, CM18440, RM18441, RM18442, CM18443

Mandarina suenoae Minato: RM18466, RM18467

Mandarina titan Chiba: CM18432, Paratypes

Mandarina sp.: RM18469

Chinzei, K. and Hiramatsu, C. (1988): First occurrence of Pliocene Fortipecten from the Japan Sea area of northern Honshu. *Saito Ho-on Kai Spec. Pub. (Prof. Kotaka, T. Commem. Vol.)*, pp.469-476, pl.1, text-figs.1,2.

CM18258. *Fortipecten kenyoshiensis* (Chinzei), p.470, pl.1, figs.1-4.

Endo, K. (1987): Life habit and relative growth of some Laqueid brachiopods from Japan. *Trans. Proc. Palaeont. Soc. Japan,* N. S., no.147, pp.180-194, figs.1-12.

RB18186a. *Laqueus rubellus* (Sowerby), p.181, fig.1-1,2,3.

RB18186b. *Laqueus rubellus* (Sowerby), p.181, fig.1-4,5,6.

RB18188a. *Laqueus blanfordi* (Dunker), p.181, fig.1-7,8,9.

RB18190a. *Laqueus quadratus* Yabe and Hatai, p.181, fig.1-10,11,12.

RB18191a. *Laqueus* sp. 1, p.186, fig.1-13,14,15.

CB18192a. *Laqueus* sp. 2, p.186, fig.1-16,17,18.

RB18194a. *Pictothyris picta* (Dillwyn), p.181, fig.1-19,20,21.

RB18195a. *Pictothyris* sp., p.181, fig.1-22,23,24.

CB18196a. *Kikaithyris hanzawai* (Yabe), p.181, fig.1-25,26,27.

The following specimens, which were mentioned but not illustrated in this paper, are also preserved in this museum.

Laqueus rubellus (Sowerby): CB18185

Laqueus blanfordi (Dunker): RB18187, RB18188

Laqueus quadratus Yabe and Hatai: CB18189, RB18190

Laqueus sp. 1: RB18191

Laqueus sp. 2: CB18192

Pictothyris picta (Dillwyn): CB18193, RB18194

Pictothyris sp.: RB18195

Kikaithyris hanzawai (Yabe): CB18196

Hayami, I. (1988): A Tethyan bivalve, Posidonotis dainellii, from the lower Jurassic of west Japan. *Trans. Proc. Palaeont. Soc. Japan,* N.S., no.151, pp.564-569, 1 fig.

MM4839. *Posidonotis dainellii* Losacco, p.565, fig.1-D. [see also Hayami (1961)]

Hayami, I. (1991): Living and fossil scallop shells as airfoils: An experimental study. *Paleobiology,* vol.17, no.1, pp.1-18, figs.1-4.

RM18816. *Placopecten magellanicus* (Gmelin), p.6, fig.1.

MM18818. *Camptonectes (Maclearnia) cinctus* (Sowerby), p.6, fig.1.

RM18819b. *Amusium japonicum* (Gmelin), p.6, fig.1.

Hayami, I. (1991): continued

CM18821a. *Amussiopecten praesignis* (Yokoyama): p.6, fig.1.

The following specimens, which were mentioned but not illustrated in this paper, are also preserved in this museum.

Placopecten magellanicus (Gmelin): RM18815

Placopecten setanaensis (Kubota): CM18817

Amusium japonicum (Gmelin): RM18819a, RM18819

Amusium pleuronectes (Linnè): RM18820

Amussiopecten praesignis (Yokoyama): CM18821

Propeamussium sibogai (Dautzenberg and Bavay): RM18822

Hayami, I. and Hosoda, I. (1988): Fortipecten takahashii, a reclining Pectinid from the Pliocene of Noth Japan. *Palaeontology,* vol.31, pt.2, pp.419-444, pls.39,40.

CM18116a. *Fortipecten takahashii* (Yokoyama), p.422, pl.40, fig.1a-c.

CM18116b. *Fortipecten takahashii* (Yokoyama), p.422, pl.40, fig.2a-c.

CM18117a. *Fortipecten takahashii* (Yokoyama), p.422, pl.39, fig.1a-d; text-fig.6 left.

CM18117b. *Fortipecten takahashii* (Yokoyama), p.422, pl.40, fig.3a,b.

CM18117c. *Fortipecten tajahashii* (Yokoyama), p.422, text-fig.5 upper.

CM18118. *Fortipecten takahashii* (Yokoyama), p.422, text-fig.9a,b.

RM18119a. *Patinopecten yessoensis* (Jay), p.422, text-fig.5 lower.

RM18119b. *Patinopecten yessoensis* (Jay), p.422, text-fig.6 right.

The following specimens, though not illustrated, were also preserved in this museum.

Fortipecten takahashii (Yokoyama): CM18116, CM18117, CM18118

Patinopecten yessoensis (Jay): RM18119, RM18120, RM18121

Hayami, I. and Kase, T. (1992): A new cryptic species of Pycnodonte from Ryukyu islands: A living fossil Oyster. *Trans. Proc. Palaeont. Soc. Japan,* N. S., no.165, pp.1070-1089, 7 figs.

RM18908. *Pycnodonte (Pycnodonte) taniguchii* Hayami and Kase, p.1076, figs.2-1a-d; 3-1a,b; 4-1, Holotype.

RM18909. *Pycnodonte (Pycnodonte) taniguchii* Hayami and Kase, p.1076, fig.6-3,4, Paratype.

Hayami, I. and Kase, T. (1992): continued

RM18910. *Pycnodonte (Pycnodonte) taniguchii* Hayami and Kase, p.1076, fig.4-2a-c, Paratype.

RM18911. *Pycnodonte (Pycnodonte) taniguchii* Hayami and Kase, p.1076, fig.4-3a-c, Paratype.

RM18913. *Pycnodonte (Pycnodonte) taniguchii* Hayami and Kase, p.1076, figs.6-1,2,5,6; 7, Paratype.

The following specimens, which were mentioned but not illustrated in this paper, are also preserved in this museum.

Pycnodonte (Pycnodonte) taniguchii Hayami and Kase: RM18912, RM18914, RM18915, Paratypes (missing)

Hayami, I. and Kase, T. (1993): Submarine cave Bivalvia from the Ryukyu Islands: Systematics and evolutionary significance. *Univ. Mus. Univ. Tokyo, Bull.*, no.35, pp.1-133, figs.1-378, 6 tables.

RM19345a. *Solemya (Petrasma)* sp., p.10, figs.3-6.

RM19350a. *Huxleyia cavernicola* Hayami and Kase, p.12, figs.7-9, Holotype.

RM19350b. *Huxleyia cavernicola* Hayami and Kase, p.12, figs.10,11, Paratype. (missing)

RM19350c. *Huxleyia cavernicola* Hayami and Kase, p.12, figs.13-15, Paratype.

RM19358a. *Pronucula insignis* Hayami and Kase, p.14, figs.16-20, Holotype.

RM19358b. *Pronucula insignis* Hayami and Kase, p.14, figs.21-23, Paratype.

RM19359a. *Pronucula insignis* Hayami and Kase, p.14, fig.24, Paratype.

RM19359b. *Pronucula insignis* Hayami and Kase, p.14, fig.25, Paratype.

RM19361a. *Acar* sp. aff. *Acar plicata* (Dillwyn), p.17, figs.26-28.

RM19361b. *Acar* sp. aff. *Acar plicata* (Dillwyn), p.17, figs.29,30.

RM19365a. *Acar* sp. aff. *Acar plicata* (Dillwyn), p.17, fig.31. (missing)

RM19365b. *Acar* sp. aff. *Acar plicata* (Dillwyn), p.17, figs.32,33.

RM19374a. *Bentharca tenuis* Hayami and Kase, p.19, figs.34-38, Holotype.

RM19375a. *Bentharca tenuis* Hayami and Kase, p.19, figs.39,40, Paratype.

RM19375b. *Bentharca tenuis* Hayami and Kase, p.19, fig.41, Paratype.

RM19379a. *Bentharca decorata* Hayami and Kase, p.21, figs.42-45, Holotype.

RM19379b. *Bentharca decorata* Hayami and Kase, p.21, fig.46, Paratype.

RM19379c. *Bentharca decorata* Hayami and Kase, p.21, fig.47, Paratype.

RM19379d. *Bentharca decorata* Hayami and Kase, p.21, figs.48,49, Paratype.

Hayami, I. and Kase, T. (1993): continued

RM19382a. *Bentharca irregularis* Hayami and Kase, p.23, figs.50,51, Holotype.

RM19382b. *Bentharca irregularis* Hayami and Kase, p.23, figs.52-54, Paratype.

RM19383a. *Bentharca excavata* Hayami and Kase, p.24, figs.55,56, Paratype.

RM19383b. *Bentharca excavata* Hayami and Kase, p.24, figs.62-64, Paratype.

RM19390a. *Bentharca excavata* Hayami and Kase, p.24, figs.58-61, Holotype.

RM19390b. *Bentharca excavata* Hayami and Kase, p.24, fig.57, Paratype.

RM19392a. *Bathyarca* sp. indet., p.26, figs.65-67.

RM19392b. *Bathyarca* sp. indet., p.26, figs.68,69.

RM19393a. *Cosa waikikia* (Dall, Bartsch and Rehder), p.30, figs.70-74.

RM19393b. *Cosa waikikia* (Dall, Bartsch and Rehder), p.30, figs.75,76.

RM19393c. *Cosa waikikia* (Dall, Bartsch and Rehder), p.30, figs.77,78.

RM19393d. *Cosa waikikia* (Dall, Bartsch and Rehder), p.30, figs.79,80. (missing)

RM19394a. *Cosa waikikia* (Dall, Bartsch and Rehder), p.30, fig.81.

RM19394b. *Cosa waikikia* (Dall, Bartsch and Rehder), p.30, fig.82.

RM19394c. *Cosa waikikia* (Dall, Rartsch and Rehder), p.30, fig.83.

RM19404a. *Cosa kinjoi* Hayami and Kase, p.32, figs.87-90, Paratype.

RM19404b. *Cosa kinjoi* Hayami and Kase, p.32, figs.91,92, Paratype.

RM19410a. *Cosa uchimae* Hayami and Kase, p.34, figs.93-96, Holotype.

RM19410b. *Cosa uchimae* Hayami and Kase, p.34, figs.97-99, Paratype.

RM19411a. *Cratis kanekoi* Hayami and Kase, p.36, figs.103-107, Holotype.

RM19412a. *Cratis kanekoi* Hayami and Kase, p.36, figs.108-110, Paratype.

RM19413a. *Cosa* sp. indet., p.35, figs.100-102.

RM19416a. *Cratis ohashii* Hayami and Kase, p.40, figs.111-114, Holotype.

RM19416b. *Cratis ohashii* Hayami and Kase, p.40, fig.115, Paratype.

RM19416c. *Cratis ohashii* Hayami and Kase, p.40, figs.116,117, Paratype.

RM19416d. *Cratis ohashii* Hayami and Kase, p.40, figs.118-120, Paratype.

RM19418a. Limopsoidea ? gen. and sp. indet., p.41, figs.121-124.

RM19418b. Limopsoidea ? gen. and sp. indet., p.41, figs.125-128.

RM19425a. *Brachidontes* sp. indet., p.41, figs.129-131.

RM19425b. *Brachidontes* sp. indet., p.41, figs.132,133.

RM19426a. *Septifer* sp. indet., p.43, figs.139-141.

Hayami, I. and Kase, T. (1993): continued

RM19427a. *Septifer* sp. indet., p.43, figs.134-138.

RM19428a. *Crenella* sp. indet., p.45, figs.142-145.

RM19430a. *Crenella* sp. indet., p.45, fig.146.

RM19432a. *Dacrydium zebra* Hayami and Kase, p.46, figs.148-151, Holotype.

RM19435a. *Dacrydium zebra* Hayami and Kase, p.46, figs.152-154, Paratype.

RM19435b. *Dacrydium zebra* Hayami and Kase, p.46, figs.155-157, Paratype.

RM19435c. *Dacrydium zebra* Hayami and Kase, p.46, fig.158, Paratype.

RM19448a. *Urumella concava* Hayami and Kase, p.50, figs.159-162, Holotype.

RM19448b. *Urumella concava* Hayami and Kase, p.50, figs.163-166, Paratype.

RM19450a. *Malleus (Malvufundus)* sp. indet., p.52, figs.171,172.

RM19451a. *Parvamussium crypticum* Hayami and Kase, p.54, figs.173-179, Holotype.

RM19451b. *Parvamussium crypticum* Hayami and Kase, p.54, figs.180,181, Paratype.

RM19463a. *Cyclopecten ryukyuensis* Hayami and Kase, p.59, figs.196,197, Holotype.

RM19463b. *Cyclopecten ryukyuensis* Hayami and Kase, p.59, figs.193-195, Paratype.

RM19463c. *Cyclopecten ryukyuensis* Hayami and Kase, p.59, figs.198-200, Paratype. (missing)

RM19464a. *Cyclopecten ryukyuensis* Hayami and Kase, p.59, fig.201, Paratype. (missing)

RM19473a. *Chlamydella incubata* Hayami and Kase, p.62, figs.202-205, Holotype.

RM19473b. *Chlamydella incubata* Hayami and Kase, p.62, figs.206,207, Paratype.

RM19473c. *Chlamydella incubata* Hayami and Kase, p.62, fig.208, Paratype.

RM19473d. *Chlamydella incubata* Hayami and Kase, p.62, figs.209,210, Paratype. (missing)

RM19473e. *Chlamydella incubata* Hayami and Kase, p.62, fig.211, Paratype.

RM19473f. *Chlamydella incubata* Hayami and Kase, p.62, fig.212, Paratype.

RM19483a. *Chlamydella uenuissima* Hayami and Kase, p.65, figs.213-216, Holotype.

RM19483b. *Chlamydella tenuissima* Hayami and Kase, p.65, figs.217,218, Paratype.

Hayami, I. and Kase, T. (1993): continued

RM19483c. *Chlamydella tenuissima* Hayami and Kase, p.65, figs.219,220, Paratype.

RM19487a. *Lima* sp. indet., p.68, figs.221,-224.

RM19488a. *Lima* sp. indet., p.68, figs.225-227.

RM19489a. *Divarilima elegans* Hayami and Kase, p.69, figs.228-230, Holotype.

RM19489b. *Divarilima elegans* Hayami and Kase, p.69, figs.231-235, Paratype.

RM19495a. *Ctenoides minimus* Hayami and Kase, p.70, figs.244-246, Holotype.

RM19495b. *Ctenoides minimus* Hayami and Kase, p.70, figs.242,243, Paratype.

RM19498a. *Isolimea limopsis* (Nomura and Zinbo), p.73, figs.247-249.

RM19498b. *Isolimea limopsis* (Nomura and Zinbo), p.73, figs.250-252.

RM19502a. *Limatula kinjoi* Hayami and Kase, p.75, fig.258, Paratype.

RM19506a. *Limatula kinjoi* Hayami and Kase, p.75, figs.253-256, Holotype.

RM19506b. *Limatula kinjoi* Hayami and Kase, p.75, fig.257, Paratype.

RM19507a. *Limatula kinjoi* Hayami and Kase, p.75, fig.259, Paratype.

RM19511a. *Limaria* sp. indet., p.77, fig.260.

RM19512a. *Limaria* sp. indet., p.77, figs.261-264.

RM19514a. *Epicodakia pygmaea* Hayami and Kase, p.78, figs.265-268, Holotype.

RM19519a. *Epicodakia pygmaea* Hayami and Kase, p.78, figs.269,270, Paratype.

RM19519b. *Epicodakia pygmaea* Hayami and Kase, p.78, figs.271-274, Paratype.

RM19521a. *Cardita uruma* Hayami and Kase, p.81, figs.278-280, Paratype.

RM19521b. *Cardita uruma* Hayami and Kase, p.81, figs.281-283, Paratype.

RM19523a. *Cardita uruma* Hayami and Kase, p.81, figs.275-277, Holotype.

RM19525a. *Cardita* sp. indet., p.81, figs.284-286.

RM19526a. *Carditella iejimensis* Hayami and Kase, p.82, fig.287, Holotype.

RM19526b. *Carditella iejimensis* Hayami and Kase, p.82, fig.288, Paratype.

RM19526c. *Carditella iejimensis* Hayami and Kase, p.82, figs.289-292, Paratype.

RM19526d. *Carditella iejimensis* Hayami and Kase, p.82, figs.293,294, Paratype.

Hayami, I. and Kase, T. (1993): continued

RM19527a. *Carditella shimojiensis* Hayami and Kase, p.84, figs.295-298, Holotype.

RM19527b. *Carditella shimojiensis* Hayami and Kase, p.84, figs.299-301, Paratype.

RM19527c. *Carditella shimojiensis* Hayami and Kase, p.84, figs.302,303, Paratype.

RM19530a. *Salaputium unicum* Hayami and Kase, p.86, figs.304-306, Holotype.

RM19532a. *Salaputium unicum* Hayami and Kase, p.86, figs.307-309, Paratype.

RM19532b. *Salaputium unicum* Hayami and Kase, p.86, fig.310, Paratype.

RM19540a. *Rochefortina sandwichensis* (Smith), p.90, figs.311-313.

RM19540b. *Rochefortina sandwichensis* (Smith), p.90, figs.314-316.

RM19540c. *Rochefortina sandwichensis* (Smith), p.90, figs.317-320.

RM19542a. *Kelliella japonica* Hayami and Kase, p.91, figs.328-330, Paratype.

RM19543a. *Kelliella japonica* Hayami and Kase, p.91, figs.321-324, Holotype.

RM19543b. *Kelliella japonica* Hayami and Kase, p.91, figs.325-327, Paratype.

RM19544a. *Coralliophaga hyalina* Hayami and Kase, p.94, figs.331-337, Holotype.

RM19549a. *Coralliophaga hyalina* Hayami and Kase, p.94, fig.338, Paratype.

RM19551a. *Glossocardia obesa* (Reeve), p.96, figs.344-347.

RM19552a. *Glossocardia obesa* (Reeve), p.96, figs.339-343.

RM19553a. *Irus (Irus)* sp. indet., p.98, figs.351,352.

RM19553b. *Irus (Irus)* sp. indet., p.98, figs.353,354.

RM19556a. *Irus (Irus)* sp. indet., p.98, figs.348-350.

RM19558a. *Irus (Notirus)* sp. indet., p.100, figs.355-358.

RM19558b. *Irus (Notirus)* sp. indet., p.100, figs.359-361.

RM19558c. *Irus (Notirus)* sp. indet., p.100, figs.362-364.

RM19565a. *Hiatella* sp. aff. *Hiatella orientalis* (Yokoyama), p.101, figs. 365-368.

RM19565b. *Hiatella* sp. aff. *Hiatella orientalis* (Yokoyama), p.101, figs. 369-371.

RM19566a. *Halonympha asiatica* Hayami and Kase, p.103, figs.375-379, Holotype.

Hayami, I. and Kase, T. (1993): continued

RM19566b. *Halonympha asiatica* Hayami and Kase, p.103, figs.372-374, Paratype.

RM19572a. *Parvamussium decoratum* Hayami and Kase, p.58, figs.182-185, Holotype.

RM19572b. *Parvamussium decoratum* Hayami and Kase, p.58, figs.186-192, Paratype.

RM19573a. *Solemya (Petrasma)* sp. indet., p.10, figs.1,2.

RM19575a. *Huxleyia cavernicola* Hayami and Kase, p.12, fig.12, Paratype.

RM19586a. *Cosa kinjoi* Hayami and Kase, p.32, figs.84-86, Holotype.

RM19590a. *Crenella* sp. indet., p.45, fig.147.

RM19596a. *Malleus (Nalvufundus)* sp. indet., p.52, figs.167,168.

RM19596b. *Malleus (Malvufundus)* sp. indet., p.52, figs.169,170.

RM19604. *Pycnodonte (Pycnodonte) taniguchii* Hayami and Kase, p.67, frontispiece A,B. (missing)

RM19605a. *Ctenoides minimus* Hayami and Kase, p.70, figs.236-241, Paratype.

The following specimens, which were mentioned but not illustrated in this paper, are also preserved in this museum.

Solemya (Petrasma) sp. indet.: RM19345, RM19346, RM19573 (missing)

Huxleyia cavernicola Hayami and Kase: RM19347, RM19348, RM19349, RM19350, RM19351, RM19352, RM19353, RM19354, RM19355, RM19574, RM19575, Paratypes

Pronucula insignis Hayami and Kase: RM19356, RM19357, RM19358, RM19359, RM19360, Paratypes

Acar sp. aff. *Acar plicata* (Dillwyn): RM19361, RM19362, RM19363, RM19364, RM19365, RM19576

Bentharca tenuis Hayami and Kase: RM19366, RM19367, RM19368, RM19369, RM19370, RM19371, RM19372, RM19373, RM19374, RM19375, RM19567, RM19577 (missing), RM19578, Paratypes

Bentharca decorata Hayami and Kase: RM19376, RM19377, RM19378, RM19379, RM19579 (missing), Paratypes

Bentharca irregularis Hayami and Kase: RM19380, RM19381, RM19382, Paratypes

Bentharca excavata Hayami and Kase: RM19383, RM19384, RM19385, RM19386, RM19387, RM19388, RM19389, RM19390, RM19391, RM19580, RM19581 (missing), RM19582, Paratypes

Bathyarca sp. indet.: RM19392

Cosa waikikia (Dall, Bartsch and Rehder): RM19393, RM19394, RM19395, RM19396, RM19397, RM19398, RM19399, RM19400, RM19401, RM19402, RM19583, RM19584

Hayami, I. and Kase, T. (1993): continued

Cosa kinjoi Hayami and Kase: RM19404, RM19405, RM19406, RN19407, RM19408, RM19409, RM19568, RM19585, RM19586, Paratypes

Cosa uchimae Hayami and Kase: RM19410, Paratype

Cratis kanekoi Hayami and Kase: RM19411, RM19412, Paratypes

Cosa sp. indet.: RM19413, RM19414

Cratis ohashii Hayami and Kase: RM19415, RM19416, Paratypes

Limopsoidea ? gen. and sp. indet.: RM19417, RM19418, RM19419, RM19420, RM19421, RM19487 (missing)

Brachidontes sp. indet.: RM19422, RM19423, RM19424, RM19425, RM19588

Septifer sp. indet.: RM19426, RM19427, RM19489

Crenella sp. indet.: RM19428, RM19429, RM19430 (missing), RM19431 (missing), RM19590

Dacrydium zebra Hayami and Kase: RM19432, RM19433, RM19434, RM19435, RM19436, RM19437, RM19438, RM19439, RM19440, RM19441, RM19591, RM19592, Paratypes

Urumella concava Hayami and Kase: RM19442, RM19443, RM19444, RM19445, RM19446, RM19447, RM19448, RM19449, RM19593, Paratypes

Malleus (Malvufundus) sp. indet.: RM19450, RM19594 (missing), RM19595 (missing), RM19596

Parvamussium crypticum Hayami and Kase: RM19451, RM19569, Paratypes

Parvamussium decoratum Hayami and Kase: RM19452, RM19453, RM19454, RM19455, RM19572, RM19597, RM19598, Paratypes

Cyclopecten ryukyuensis Hayami and Kase: RM19456, RM19457, RM19458, RM19459, RM19460, RM19461, RM19462, RM19463, RM19464, RM19570 (missing), RM19599, Paratypes

Chlamydella incubata Hayami and Kase: RM19465, RM19466, RM19467, RM19468, RM19469, RM19470, RM19471, RM19472, RM19473, RM19474, RM19520, RM19600, RM19601, Paratypes

Chlamydella tenuissima Hayami and Kase: RM19475, RM19476, RM19477, RM19478, RM19479, RM19480, RM19481, RM19482, RM19483, RM19484, RM19602, RM19603, Paratypes

Lima sp. indet.: RM19485, RM19486, RM19487, RM19488

Divarilima elegans Hayami and Kase: RM19489, Paratype

Ctenoides minimus Hayami and Kase: RM19490, RM19491, RM19492, RM19493, RM19494, RM19495, RM19496, RM19497, RM19605, RM19606, Paratypes

Isolimea limopsis (Nomura and Zinbo): RM19498

Limatula kinjoi Hayami and Kase: RM19499, RM19500, RM19501, RM19502, RM19503, RM19504, RM19505 (missing), RM19506, RM19507, RM19607, Paratypes

Hayami, I. and Kase, T. (1993): continued

Limaria sp. indet.: RM19508, RM19509, RM19510, RM19511, RM19512

Epicodakia pygmaea Hayami and Kase: RM19513, RM19514 (missing), RM19515, RM19516, RM19517, RM19518, RM19519, Paratypes

Cardita uruma Hayami and Kase: RM19521, RM19522, RM19523 (missing), RM19524 (missing), RM19608, Paratypes

Cardita sp. indet.: RM19525

Cardutella iejimensis Hayami and Kase: RM19526, RM19571, Paratypes

Carditella shimojiensis Hayami and Kase: RM19527, RM19528, RM19609, Paratypes

Salaputium unicum Hayami and Kase: RM19529, RM19530, RM19531, RM19532, Paratypes

Rochefortina sandwichensis (Smith): RM19533, RM19534, RM19535, RM19536, RM19537, RM19538, RM19539, RM19540, RM19541

Kelliella japonica Hayami and Kase: RM19542, RM19543, RM19610, Paratypes

Coralliophaga hyalina Hayami and Kase: RM19544, RM19545, RM19546, RM19547, RM19548, RM19549, RM19550, RM19611, Paratypes

Glossocardia obesa (Reeve): RM19551 (missing), RM19552 (missing)

Irus (Irus) sp. indet.: RM19553, RM19554 (missing), RM19555, RM19556

Irus (Notirus) sp. indet.: RM19557, RM19558 (missing), RM19559

Hiatella sp. aff. *Hiatella orientalis* (Yokoyama): RM19560, RM19561, RM19562, RM19563, RM19564, RM19565

Halonympha asiatica Hayami and Kase: RM19566, Paratype

Hayami, I. and Okamoto, T. (1986): Geometric regularity of some oblique sculptures in pectinid and other bivalves: recognition by computer simulations. *Paleontology*, vol.12, no.4, pp.433-449, 12 figs.

MM17677. [= M.473] *Camptonectes auritus* (Schlotheim), p.435, fig.1A.

RM17678. *Placuna ephippium* (Philippson), p.453, fig.1B.

RM17679. *Delectopecten vitreus* (Gmelin), p.453, fig.1C. (missing)

RM17680. *Patinopecten (Mizuhopecten) yessoensis* (Jay), p.435, fig.1D.

RM17681. *Delectopecten randolphi* (Dall), p.437, fig.2A,B.

RM17682. *Delectopecten randolphi* (Dall), p.437, fig.2C-F.

RM17683. *Patinopecten (Mizuhopecten) yessoensis* (Jay), p.437, fig.2G. (missing)

RM17684. *Patinopecten (Mizuhopecten) yessoensis* (Jay), p.440, fig.5A.

CM17685. *Patinopecten (Mizuhopecten) tokyoensis* (Tokunaga), p.440, fig.5B.

Hayami, I. and Okamoto, T. (1986); continued

RM17686. *Patinopecten (Mizuhopecten) yessoensis* (Jay), p.440, fig.5C. (missing)

RM17687. *Delectopecten randolphi* (Dall), p.443, fig.8A-E.

RM17688. *Delectopecten randolphi* (Dall), p.444, fig.9A,B.

Isaji, S. (1993): Formation of organic sheets in the inner shell layer of Geloina (Bivalvia: Corbiculidae): An adaptive response to shell dissolution. *The Veliger,* vol.36, no.2, pp.166-173, 6 figs.

RM19106. *Geloina erosa* (Solander), p.169, fig.2A,B,D,F; fig.3A-C; fig.4C.

RM19107. *Geloina erosa* (Solander), p.168, fig.2C.

RM19108. *Geloina expansa* (Mousson), p.169, fig.3D,E,F; fig.4A,B.

RM19109. *Geloina erosa* (Solander), p.169, fig.4D,E.

RM19110. *Geloina erosa* (Solander), p.169, fig.4F,G,H.

Kamiya, T. (1988): Different sex-ratios in two recent species of Loxoconcha (Ostracoda). *Senckenbergiana lethaea,* vol.68, nos.5,6, pp. 337-345, pl.1, text-figs.1-3.

RA18124. *Loxoconcha uranouchiensis* Ishizaki, p.337, pl.1, fig.1.

RA18125. *Loxoconcha uranouchiensis* Ishizaki, p.337, pl.1, fig.2.

RA18126. *Loxoconcha uranouchiensis* Ishizaki, p.337, pl.1, fig.3.

RA18127. *Loxoconcha uranouchiensis* Ishizaki, p.337, pl.1, fig.4.

RA18128. *Loxoconcha uranouchiensis* Ishizaki, p.337, pl.1, fig.5.

RA18129. *Loxoconcha uranouchiensis* Ishizaki, p.337, pl.1, fig.6.

RA18130. *Loxoconcha uranouchiensis* Ishizaki, p.337, pl.1, fig.7.

RA18131. *Loxoconcha uranouchiensis* Ishizaki, p.337, pl.1, fig.8.

RA18132. *Loxoconcha japonica* Ishizaki, p.337, pl.1, fig.9.

RA18133. *Loxoconcha japonica* Ishizaki, p.337, pl.1, fig.10.

RA18134. *Loxoconcha japonica* Ishizaki, p.337, pl.1, fig.11.

RA18135. *Loxoconcha japonica* Ishizaki, p.337, pl.1, fig.12.

RA18136. *Loxoconcha japonica* Ishizaki, p.337, pl.1, fig.13. (missing)

RA18137. *Loxoconcha japonica* Ishizaki, p.337, pl.1, fig.14.

RA18138. *Loxoconcha japonica* Ishizaki, p.337, pl.1, fig.15.

RA18139. *Loxoconcha japonica* Ishizaki, p.337, pl.1, fig.16.

Kobayashi, T. and Hamada, T. (1987a): The third addition to the Silurian trilobite fauna of Yokokura-yama, Shikoku, Japan. *Trans. Proc. Palaeont. Soc. Japan,* N. S., no.147, pp.109-116, 3 figs.

PA18088. *Japonosucutellum tumidum* Kobayashi and Hamada, p.109, fig.3-3a-c, Holotype.

PA18089. *Bumastus glomerosus* Kobayashi and Hamada, p.110, fig.1-A, fig. 2-1a-d.

PA18090. *Cerauroides orientalis* Kobayashi and Hamada, p.110, fig.1-C, fig.2-3.

PA18091. *Encrinurus subtrigonalis* Kobayashi and Hamada, p.110, fig.3-2a,b.

PA18092. *Dicranopeltis tricornis* Kobayashi and Hamada, p.115, fig.1-D, fig.2-2.

PA18093. *Metaleiolichas tuberculatus* Kobayashi and Hamada, p.113, fig.1-B, fig.3-4a-c, Holotype.

PA18094. *Paraleiolichas globulus* Kobayashi and Hamada, p.113, fig.1-E, fig.2-4, fig.3-1a,b, Holotype.

Kobayashi, T. and Hamada, T. (1987b): On the Silurian trilobite faunule of Hitoegane near Fukuji in the Hida plateau, Japan. *Trans. Proc. Palaeont. Soc. Japan,* N. S., no.147, pp.131-145, 5 figs.

PA18095. *Kosovopeltis hidensis* Kobayashi and Hamada, p.133, fig.1-1a-c, Holotype.

PA18096. *Kosovopeltis hidensis* Kobayashi and Hamada, p.133, fig.1-2, Paratype.

PA18097. *Kosovopeltis hidensis* forma *striatum* Kobayashi and Hamada, p.133, fig.1-3.

PA18098. *Proetus (Coniproetus) tenuiceps* Kobayashi and Hamada, p.136, fig.1-4a-d, Holotype.

PA18099. *Proetus (Coniproetus ?) subconicus* Kobayashi and Hamada, p.138, fig.1-5a-d, Holotype.

PA18100. *Proetus (Coniproetus) tenuiceps* Kobayashi and Hamada, p.136, fig.3-1a,b, Paratype.

PA18101. *Cheirurus hitoeganensis* Kobayashi and Hamada, p.138, fig.2-3a-c, Holotype.

PA18102. Cheirunid, gen. et sp. indet., Hypostoma, p.140, fig.2-2a,b.

PA18103. *Sphaerexochus* sp. indet., p.140, fig.2-1a,b.

PA18104. *Encrinurus fimbriatus* Kobayashi and Hamada, p.140, fig.2-4a-e.

PA18105. *Encrinurus fimbriatus* Kobayashi and Hamada, p.140, fig.2-5a-d.

Kobayashi, T. and Hamada, T. (1987b): continued

PA18106. *Encrinurus fimbriatus* Kobayashi and Hamada, p.140, fig.3-2a-c.

PA18107. *Encrinurus fimbriatus* Kobayashi and Hamada, p.140, fig.3-3a-c.

PA18108. *Encrinurus fimbriatus* Kobayashi and Hamada, p.140, fig.3-4a-d.

PA18109. *Encrinurus fimbriatus* Kobayashi and Hamada, p.140, fig.4-1a-e, fig.5.

PA18110. *Encrinurus fimbriatus* Kobayashi and Hamada, p.140, fig.4-2a-e.

PA18111. *Encrinurus* cf. *kitakamiensis* Sugiyama, p.143, fig.3-6.

PA18112.* *Encrinurus* cf. *similis* Kobayashi and Hamada, p.144, fig.3-8a-d.

PA18113. Illaenid (?) gen. et sp. indet., p.132, fig.1-6a,b.

PA18114. Trilobita, gen. et sp. indet., p.138, fig.3-5.

PA18115. *Kosovopeltis hidensis* Kobayashi and Hamada, p.133, fig.3-7, Paratype.

Kobayashi, T. and Hamada, T. (1987c): A new Carboniferous trilobite from the Hida plateau, west Japan. *Proc. Japan Acad.*, vol.63, ser. B, no.4, pp.115-118, 5 figs.

PA18303. *Paladin hidensis* Kobayashi and Hamada, p.116, fig.1, Holotype.

PA18304. *Paladin hidensis* Kobayashi and Hamada, p.116, fig.2, Paratype.

PA18305, *Paladin hidensis* Kobayashi and Hamada, p.116, fig.3, Paratype.

PA18306. *Paladin hidensis* Kobayashi and Hamada, p.116, fig.4a,b, Paratype.

PA18307. *Paladin hidensis* Kobayashi and Hamada, p.116, fig.5, Paratype.

Kotake, N. (1989): Paleoecology of the Zoophycos producers. *Lethaia*, vol.22, pp.327-341, figs.1-14.

CW18247. *Zoophycos* sp., p.328, fig.2B.

CW18248. *Zoophycos* sp., p.330, fig.2D. (missing)

CW18249. *Zoophycos* sp., p.328, fig.2G.

CW18250. *Zoophycos* sp., p.328, fig.2H.

The following specimens, which were mentioned but not illustrated in this paper, are also preserved in this museum.

Zoophycos sp.: CW18251, CW18252, CW18253 (all missing)

Maeda, H. (1993): Dimorphism of Late Cretaceous false-Puzosiine ammonites, Yokoyamaoceras Wright and Matsumoto, 1954 and Neopuzosia Matsumoto, 1954. *Trans. Proc. Palaeont. Soc. Japan,* N. S., no.169, pp.97-128, 3 tables, figs.1-16.

MM6638. *Yokoyamaoceras ishikawai* (Jimbo), p.107, fig.6-4. [see also Matsumoto (1954b)]

MM6640. *Yokoyamaoceras ishikawai* (Jimbo), p.118, fig.4-1. [see also Matsumoto (1954b)]

MM7507. *Yokoyamaoceras ishikawai* (Jimbo), p.105, fig.6-5,6, Lectotype. [see also Jimbo (1894), Matsumoto (1954b), Matsumoto (1963), Matsumoto (1981c)]

MM7517. *Yokoyamaoceras kotoi* (Jimbo), p.98, fig.4-15,16, Holotype. [see also Jimbo (1894), Matsumoto (1955a), Matsumoto (1963), Matsumoto (1981d)]

MM7623a. *Yokoyamaoceras ishikawai* (Jimbo), p.124, fig.4-7,8. [see also Matsumoto (1955a)]

MM7625a. *Yokoyamaoceras ishikawai* (Jimbo), p.110, fig.4-9,10. [see also Matsumoto (1955a)]

MM18331. *Yokoyamaoceras ishikawai* (Jimbo), p.107, fig.6-1,2,3.

MM18336. *Yokoyamaoceras ishikawai* (Jimbo), p.107, fig.6-7.

MM18337. *Yokoyamaoceras ishikawai* (Jimbo), p.107, fig.3-2,4.

MM18341. *Yokoyamaoceras ishikawai* (Jimbo), p.107, fig.3-1,3.

MM18344. *Yokoyamaoceras ishikawai* (Jimbo), p.118, fig.9-2,3; fig.14-4.

MM18346. *Yokoyamaoceras ishikawai* (Jimbo), p.107, fig.9-1.

MM18350. *Yokoyamaoceras ishikawai* (Jimbo), p.110, fig.4-13,14.

MM18351. *Yokoyamaoceras ishikawai* (Jimbo), p.111, fig.4-1,2.

MM18357. *Yokoyamaoceras ishikawai* (Jimbo), p.107, fig.3-7,8.

MM18359. *Yokoyamaoceras ishikawai* (Jimbo), p.111, fig.4-11,12.

MM18362. *Mesopuzosia pacifica* Matsumoto, p.112, fig.10-6.

MM18369. *Yokoyamaoceras ishikawai* (Jimbo), p.112, fig.10-2.

MM18372. *Yokoyamaoceras ishikawai* (Jimbo), p.112, fig.10-3.

MM18374. *Kossmaticeras theobaldianum paucicostatum* Matsumoto, p.112, fig.10-4.

MM18376. *Yokoyamaoceras ishikawai* (Jimbo), p.112, fig.10-1.

MM18379. *Desmoceras (Pseudouhligella) japonicum* Yabe, p.113, fig.10-5.

MM18380. *Yokoyamaoceras ishikawai* (Jimbo), p.111, fig.9-4; fig.14-2.

MM18381. *Yokoyamaoceras ishikawai* (Jimbo), p.111, fig.9-5.

Maeda, H. (1993): continued

MM18382. *Yokoyamaoceras ishikawai* (Jimbo), p.111, fig.9-6,7.

MM18383. *Yokoyamaoceras ishikawai* (Jimbo), p.118, fig.14-4.

MM18385. *Yokoyamaoceras ishikawai* (Jimbo), p.111, fig.3-5,6.

MM18386. *Yokoyamaoceras ishikawai* (Jimbo), p.107, fig.6-8.

MM18387. *Yokoyamaoceras ishikawai* (Jimbo), p.111, fig.9-8,9,10,11,12.

The following specimens, which were mentioned but not illustrated in this paper, are also preserved in this museum.

Yokoyamaoceras ishikawai (Jimbo): MM6624, MM6625, MM6626, MM6627, MM6628, MM6629, MM6630, MM6631, MM6632, MM6633, MM6634, MM6635, MM6636, MM6637, MM6639, MM6641, MM6642, MM6643, MM6644 [the above see also Matsumoto (1954b)], MM6883, MM7623b, MM7624a, MM7624b, MM7625b, MM7626 [the above see also Matsumoto (1955a)], MM7697, MM7698, MM7700, MM9137 [the above see also Matsumoto (1954b)], MM18330, MM18332, MM18333, MM18334, MM18335, MM18338, MM18339, MM18340, MM18342, MM18343, MM18345, MM18347, MM18348, MM18349, MM18352, MM18353, MM18358, MM18360, MM18361, MM18365, MM18366, MM18367, MM18368, MM18370, MM18384, MM18388, MM18389, MM18390, MM18391, MM18392, MM18393, MM18394, MM18395, MM18396, MM18397, MM18398, MM18399

Desmoceras (Pseudouhligella) japonicum Yabe: MM6675 [see also Matsumoto (1954a)]

Yokoyamaoceras kotoi (Jimbo): MM18354, MM18355, MM18356

Mesopuzosia pacifica Matsumoto: MM18371

Jimboiceras planulatiforme (Jimbo): MM18364

Desmoceras (Pseudouhligella) ezoanum Matsumoto: MM18373

Mesopuzosia yubarensis (Jimbo): MM18375

Hauericeras (Gardeniceras) angustum Yabe: MM18377

Anapachydiscus sp.: MM18378

Majima, R. (1989): Cenozoic fossil Naticidae (Mollusca: Gastropoda) in Japan. *Bull. Amer. Paleontology,* vol.96, no.331, pp.1-159, pls.1-14, text-figs.1-24, tables 1-43.

CM12079. *Sinum ineptum* (Yokoyama), p.70, pl.9, fig.12a-c. [see also Otuka (1934)]

CM12747. *Cernina fluctuata nakamurai* (Otuka), p.28, pl.1, fig.3a,b, Holotype. [see also Otuka (1938c)]

CM20218. *Cryptonatica andoi* (Nomura), p.90, pl.13, fig.23a,b. [see also Yokoyama (1920)]

CM20231. *Euspira yokoyamai* (Kuroda and Habe), p.40. (missing) [see also Yokoyama (1920)]

Majima, R. (1989): continued

CM22564. *"Sinum" festiva* (Yokoyama), p.71, pl.9, fig.21a-c, Holotype. [see also Yokoyama (1925c)]

CM24624. *Sinum ineptum* (Yokoyama), p.70, pl.9, fig.17a-d, Holotype. [see also Yokoyama (1923d)]

CM25918. *Glossaulax didyma coticazae* (Makiyama), p.51, pl.5, fig.16a,b. [see also Yokoyama (1931b)]

Malz, Heinz and Tabuki, R. (1988): The ostracod genus Abrocythereis (Miocene to Recent) from the Indopacific. *Geologica et Palaeontologica,* vol.22, pp.157-173, pls.1-4, figs.1-5.

CA18143. *Abrocythereis ryukyuensis* Malz and Tabuki, p.164, pl.2, fig.14, Holotype.

RA18181. *Abrocythereis* sp., p.158, pl.3, fig.17.

RA18182. *Abrocythereis* sp., p.158, pl.3, fig.18.

RA18183. *Abrocythereis* sp., p.158, pl.3, fig.19.

CA18184. *Abrocythereis* sp., p.158, pl.4, fig.31.

The following specimens, which were mentioned but not illustrated in this paper, are also preserved in this museum.

Abrocythereis ryukyuensis Malz and Tabuki: CA18144, CA18145, CA18146, CA18147, CA18148, CA18149, CA18150, CA18151, CA18152, CA18153, CA18154, CA18155, CA18156, CA18157, CA18158, CA18159, CA18160, CA18161, CA18162, CA18163, CA18164, CA18165, CA18166, CA18167, CA18168, CA18169, CA18170, CA18171, CA18172, CA18173, CA18174, CA18175, CA18176, CA18177, CA18178, CA18179, CA18180, Paratypes

Matsumoto, T. (1991): The Mid-Cretaceous Ammonites of the Family Kossmaticeratidae from Japan. *Palaeontological Society of Japan,* Special papers, no.33, pp.1-143, 31 pls., 16 figs.

MM6590. *Eogunnarites unicus* (Yabe), p.71, pl.15, fig.1, Paratype. [see also Wright and Matsumoto (1954)]

MM6591. *Eogunnarites unicus* (Yabe), p.71, pl.15, fig.2, Paratype. [see also Wright and Matsumoto (1954)]

MM6592. *Eogunnarites unicus* (Yabe), p.71, fig.9, Paratype. [see also Wrght and Matsumoto (1954)]

MM6864a. *Marshallites compressus* Matsumoto, p.24, pl.2, fig.1, Paratype. [see also Matsumoto (1955a)]

MM6864b. *Marshallites compressus* Matsumoto, p.24, pl.2, fig.2, Paratype. [see also Matsumoto (1955a)]

Matsumoto, T. (1991): continued

MM6865. *Marshallites compressus* Matsumoto, p.24, pl.2, fig.3, Paratype. [see also Matsumoto (1955a)]

MM6866. *Marshallites compressus* Matsumoto, p.24, pl.1, fig.4, Paratype. [see also Matsumoto (1955a)]

MM6867. *Marshallites compressus puzosioides* Matsumoto, p.24, pl.2, fig.4, Holotype. [see also Matsumoto (1955a)]

MM6868a. *Marshallites compressus puzosioides* Matsumoto, p.24, pl.2, fig.3, Paratype. [see also Matsumoto (1955a)]

MM6868b. *Marshallites compressus puzosioides* Matsumoto, p.24, pl.2, fig.6, Paratype. [see also Matsumoto (1955a)]

MM6868c. *Marshallites compressus puzosioides* Matsumoto, p.24, pl.2, fig.7, Paratype. [see also Matsumoto (1955a)]

MM6869. *Marshallites hendersoni* Matsumoto and Takahashi, p.30, pl.3, fig.5, Paratype. [see also Matsumoto (1955a)] (missing)

MM6870. *Marshallites olcostephanoides* Matsumoto, p.33, pl.4, fig.5, Paratype. [see also Matsumoto (1955a)]

MM6871. *Marshallites olcostephanoides* Matsumoto, p.33, pl.4, fig.7, Paratype. [see also Matsumoto (1955a)] (missing)

MM6872. *Marshallites olcostephanoides* Matsumoto, p.33, pl.4, fig.6, Paratype. [see also Matsumoto (1955a)]

MM6875. *Marshallites olcostephanoides* Matsumoto, p.33, pl.4, fig.3, Paratype. [see also Matsumoto (1955a)]

MM6877. *Eomadrasites subnipponicus* Matsumoto, p.84, pl.15, fig.4, Holotype. [see also Matsumoto (1955a)]

MM6878. *Eomadrasites subnipponicus* Matsumoto, p.84, pl.15, fig.5, Paratype. [see also Matsumoto (1955a)]

MM6882. *Kossmaticeras japonicum* Matsumoto, p.98, pl.23, fig.5, Paratype. [see also Matsumoto (1955a)]

MM6883. *Yokoyamaoceras jimboi* Matsumoto, p.100, pl.23, fig.1, Paratype. [see also Matsumoto (1955a)]

MM7457. *Eogunnarites unicus* (Yabe), p.71, pl.15, fig.3, Holotype. [see also Wright and Matsumoto (1954)]

MM7517. *Yokoyamaoceras kotoi* (Jimbo), p.100, pl.22, fig.4, Holotype. [see also Jimbo (1894), Matsumoto (1955a), (1963), (1981d), Shikama (1943), (1952), (1964)]

MM7625a. *Yokoyamaoceras jimboi* Matsumoto, p.100, pl.23, fig.2, Holotype. [see also Matsumoto (1955a)]

MM7627. *Kossmaticeras japonicum* Matsumoto, p.98, pl.23, fig.4, Holotype. [see also Matsumoto (1955a), Shikama (1964)]

Matsumoto, T., Hayami, I. and Asano, K. (1963 continued): A survey of fossil Japan from illustrated in classical monographs, part VII. Yokoyama, M.: Versteinerungen aus der japanischen Kreide. *Palaeont. Soc. Japan, Twenty-fifth Anniv. Vol.*, pp.27-32, pls.44-51. [the original specimens in Bayerisch Staatsammlung für Paläontologie und Historische Geologie, Munchen] [see also Yokoyama (1890)]

MM18295.* *Polyptychoceras pseudogaultinum* (Yokoyama), p.29, pl.46, fig.1, Syntype.

MM18296.* *Polyptychoceras pseudogaultinum* (Yokoyama), p.29, pl.46, fig.2, a, Syntype.

MM18297.* *Polyptychoceras pseudogaultinum* (Yokoyama), p.30, pl.46, fig.3, Syntype.

MM18298.* *Polyptychoceras subquadratum* (Yokoyama), p.30, pl.46, fig.4, Holotype.

MM18299.* *Polyptychoceras haradanum* (Yokoyama), p.30, pl.46, fig.5, Lectotype.

MM18300.* *Polyptychoceras subundatum* (Yokoyama), p.30, pl.46, fig.6, Lectotype.

MM18301.* *Ryugasella ryugasensis* Wright and Matsumoto (?), p.30, Pl.46, fig.8.

MM18302.* *Polyptychoceras (?)* sp., p.30, pl.46, fig.9.

Mizuno, Y. (1989): "Linthia" from Morozaki group. *Kaseki no Tomo* (Pub. of the Tokai Fossil Society, Nagoya), no.34, pp.3-10, pls.1-2.

CE18683. *Linthia nipponica* Yoshiwara, p.4, pl.2, fig.2a,b.

CE18687. *Linthia nipponica* Yoshiwara, p.4, pl.2, fig.1a-c.

The following specimens, thouth not illustrated, were also preserved in this museum.

Linthia nipponica Yoshiwara: CE18684, CE18685, CE18686, CE18688, CE18689, CE18690.

Niko, S. (1985): Mediocris (Primitive Fusulinacea) from the Ichinotani formation, Fukuji district, central Japan. *Sci. Pap. Coll. Arts & Sci. (Coll. Gen. Educ.), Univ. Tokyo,* vol.35, no.2, pp.165-180, pls.1-3.

PF18710. *Mediocris breviscula* (Ganelina), p.168, pl.1, fig.19.
PF18711. *Mediocris breviscula* (Ganelina), p.168, pl.1, fig.17.
PF18712. *Mediocris breviscula* (Ganelina), p.168, pl.1, fig.9.
PF18713. *Mediocris breviscula* (Ganelina), p.168, pl.1, fig.2.
PF18714. *Mediocris breviscula* (Ganelina), p.168, pl.1, fig.1.
PF18715. *Mediocris breviscula* (Ganelina), p.168, pl.1, fig.13.
PF18716. *Mediocris breviscula* (Ganelina), p.168, pl.1, fig.11.
PF18717. *Mediocris breviscula* (Ganelina), p.168, pl.1, fig.3.
PF18718. *Mediocris breviscula* (Ganelina), p.168, pl.1, fig.6.
PF18719. *Mediocris breviscula* (Ganelina), p.168, pl.1, fig.15.
PF18720. *Mediocris breviscula* (Ganelina), p.168, pl.1, fig.16.
PF18721. *Mediocris breviscula* (Ganelina), p.168, pl.1, fig.4.
PF18722. *Mediocris breviscula* (Ganelina), p.168, pl.1, fig.18.
PF18723. *Mediocris breviscula* (Ganelina), p.168, pl.1, fig.14.
PF18724. *Mediocris breviscula* (Ganelina), p.168, pl.1, fig.5.
PF18725. *Mediocris breviscula* (Ganelina), p.168, pl.1, fig.12.
PF18726. *Mediocris breviscula* (Ganelina), p.168, pl.1, fig.10.
PF18727. *Mediocris breviscula* (Ganelina), p.168, pl.1, fig.8.
PF18728. *Mediocris breviscula* (Ganelina), p.168, pl.1, fig.7.
PF18729. *Mediocris lenticuliformis* Niko, p.168, pl.1, fig.20, Holotype.
PF18730. *Mediocris lenticuliformis* Niko, p.168, pl.1, fig.21, Paratype.
PF18731. *Mediocris mediocris* (Vissarionova), p.170, pl.2, fig.8.
PF18732. *Mediocris mediocris* (Vissarionova), p.170, pl.2, fig.5.
PF18733. *Mediocris mediocris* (Vissarionova), p.170, pl.2, fig.4.
PF18734. *Mediocris mediocris* (Vissarionova), p.170, pl.2, fig.2.
PF18735. *Mediocris mediocris* (Vissationova), p.170, pl.2, fig.3.
PF18736. *Mediocris mediocris* (Vissarionova), p.170, pl.2, fig.17.
PF18737. *Mediocris mediocris* (Vissarionova), p.170, pl.2, fig.12.
PF18738. *Mediocris mediocris* (Vissarionova), p.170, pl.2, fig.9.
PF18739. *Mediocris mediocris* (Vissarionova), p.170, pl.2, fig.10.
PF18740. *Mediocris mediocris* (Vissarionova), p.170, pl.2, fig.7.

Niko, S. (1985): continued

PF18741. *Mediocris mediocris* (Vissarionova), p.170, pl.2, fig.6.
PF18742. *Mediocris mediocris* (Vissarionova), p.170, pl.2, fig.11.
PF18743. *Mediocris mediocris* (Vissarionova), p.170, pl.2, fig.16.
PF18744. *Mediocris mediocris* (Vissarionova), p.170, pl.2, fig.1.
PF18745. *Mediocris mediocris* (Vissarionova), p.170, pl.2, fig.13.
PF18746. *Mediocris mediocris* (Vissarionova). p.170, pl.2, fig.14.
PF18747. *Mediocris mediocris* (Vissarionova), p.170, pl.2, fig.15.
PF18748. *Mediocris simplex* Niko, p.170, pl.3, fig.1, Holotype.
PF18749. *Mediocris simplex* Niko, p.170, pl.3, fig.4, Paratype.
PF18750. *Mediocris simplex* Niko, p.170, pl.3, fig.14, Paratype.
PF18751. *Mediocris simplex* Niko, p.170, pl.3, fig.2, Paratype.
PF18752. *Mediocris simplex* Niko, p.170, pl.3, fig.6, Paratype.
PF18753. *Mediocris simplex* Niko, p.170, pl.3, fig.3, Paratype.
PF18754. *Mediocris simplex* Niko, p.170, pl.3, fig.16, Paratype.
PF18755. *Mediocris simplex* Niko, p.170, pl.3, fig.9, Paratype.
PF18756. *Mediocris simplex* Niko, p.170, pl.3, fig.5, Paratype.
PF18757. *Mediocris simplex* Niko, p.170, pl.3, fig.12, Paratype.
PF18758. *Mediocris simplex* Niko, p.170, pl.3, fig.7, Paratype.
PF18759. *Mediocris simplex* Niko, p.170, pl.3, fig.15, Paratype.
PF18760. *Mediocris simplex* Niko, p.170, pl.3, fig.13, Paratype.
PF18761. *Mediocris simplex* Niko, p.170, pl.3, fig.8, Paratype.
PF18762. *Mediocris simplex* Niko, p.170, pl.3, fig.10, Paratype.
PF18763. *Mediocris simplex* Biko, p.170, pl.3, fig.11, Paratype.

Niko, S. (1987): Early Carboniferous Eostaffella (primitive Fusulinacea) from the Ichinotani formation, Fukuji district, central Japan. *Trans. Proc. Palaeont. Soc. Japan,* N. S., no.147, pp.117-130, 5 figs.

PF18013. *Eostaffella excavata* Niko, p.120, fig.3-A, Holotype.
PF18014. *Eostaffella excavata* Niko, p.120, fig.3-B, Paratype.
PF18015. *Eostaffella excavata* Niko, p.120, fig.3-F, Paratype.
PF18016. *Eostaffella excavata* Niko, p.120, fig.3-C, Paratype.
PF18017. *Eostaffella excavata* Niko, p.120, fig.3-E, Paratype.
PF18018. *Eostaffella excavata* Niko, p.120, fig.3-D, Paratype.

Niko, S. (1987): continued

PF18019. *Eostaffella excavata* Niko, p.120, fig.3-H, Paratype.
PF18020. *Eostaffella excavata* Niko, p.120, fig.3-G, Paratype.
PF18021. *Eostaffella igoi* Niko, p.121, fig.4-B, Holotype.
PF18022. *Eostaffella igoi* Niko, p.121, fig.4-A, Paratype.
PF18023. *Eostaffella igoi* Niko, p.121, fig.4-D, Paratype.
PF18024. *Eostaffella igoi* Niko, p.121, fig.4-C, Paratype.
PF18025. *Eostaffella igoi* Niko, p.121, fig.4-E, Paratype.
PF18026. *Eostaffella kanmerai* (Igo), p.123, fig.4-H.
PF18027. *Eostaffella kanmerai* (Igo), p.123, fig.4-J.
PF18028. *Eostaffella subulba* Niko, p.126, fig.5-A, Holotype.
PF18029. *Eostaffella subulba* Niko, p.126, fig.5-B, Paratype.
PF18030. *Eostaffella subulba* Niko, p.126, fig.5-C, Paratype.
PF18031. *Eostaffella subulba* Niko ?, p.126, fig.5-E.
PF18032. *Eostaffella mosquensis* Vissarionova, p.123, fig.5-G.
PF18033. *Eostaffella mosquensis* Vissarionova, p.123, fig.5-D.
PF18034. *Eostaffella mosquensis* Vissarionova, p.123, fig.5-F.
PF18035. *Eostaffella* cf. *postmosquensis* Kireeva, p.125, fig.3-I.
PF18036. *Eostaffella* cf. *postmosquensis* Kireeva, p.125, fig.3-J.
PF18037. *Eostaffella* cf. *postmosquensis* Kireeva, p.125, fig.3-K.
PF18038. *Eostaffella tenebrosa* Vissarionova, p.126, fig.4-G.
PF18039. *Eostaffella tenebrosa* Vissarionova, p.126, fig.5-I.
PF18040. *Eostaffella tenebrosa* Vissarionova, p.126, fig.4-F.
PF18041. *Eostaffella* sp., p.127, fig.4-K.
PF18070. *Eostaffella mosquensis* Vissarionova ?, p.123, fig.5-H.

Niko, S. (1989a): Loeblichiidae (primitive Fusulinacea) from the Ichinotani formation, Gifu Prefecture. *Sci. Pap. Coll. Arts and Sci., Univ. Tokyo,* vol.39, no.2, pp.125-133, 2 figs.

PF18764. *Loeblichia ukrainica* Brazhnikova, p.127, fig.2-M.
PF18765. *Novella (?)* sp., p.127, fig.2-B.
PF18766. *Novella (?)* sp., p.127, fig.2-A.
PF18767. *Seminovella* cf. *elegantula* Rauzer-Chernousova, p.128, fig.2-C.
PF18768. *Seminovella sadai* Niko, p.129, fig.2-D, Holotype.

Niko, S. (1989a): continued

PF18769. *Seminovella sadai* Niko, p.129, fig.2-E, Paratype.

PF18770. *Seminovella sadai* Niko, p.129, fig.2-I, Paratype.

PF18771. *Seminovella sadai* Niko, p.129, fig.2-H, Paratype.

PF18772. *Seminovella sadai* Niko, p.129, fig.2_K, Paratype.

PF18773. *Seminovella sadai* Niko, p.129, fig.2-G, Paratype.

PF18774. *Seminovella sadai* Niko, p.129, fig.2-L, Paratype.

PF18775. *Seminovella sadai* Niko, p.129, fig.2-O, Paratype.

PF18776. *Seminovella sadai* Niko, p.129, fig.2-J, Paratype.

PF18777. *Seminovella sadai* Niko, p.129, fig.2-N, Paratype.

PF18778. *Seminovella sadai* Niko, p.129, fig.2-P, Paratype.

PF18780. *Seminovella* sp., p.131, fig.2-F.

The following specimen, which were mentioned but not illustrated in this paper, are also preserved in this museum.

Seminovella sadai Niko: Pf1879, Paratype.

Niko, S. (1989b): Cephalopods. *Fossil from the Onimaru Quarry,* pp.79-82, 2 pls.

PM18787. *Dolorthoceras (?)* sp., p.81, pl.2, fig.3.

PM18788. *Adnatoceras* sp., p.81, pl.2, figs.1,2.

The following specimen, which were mentioned but not illustrated in this paper, are preserved in this museum.

Neocycloceras (?) sp.: PM18784

Niko, S. (1989c): A new Devonian Cephalopod from the Nakazato formation of the southernKitakami Mountains. *Trans. Proc. Palaeont. Soc. Japan,* N. S., no.156, pp.291-295, 1 fig.

PM18470. *Geisonocerella nakazatoensis* Niko, p.291, fig.1-1-4, Holotype.

The following specimen, which were mentioned but not illustrated in this paper, are also preserved in this museum.

Geisonocerella nakazatoensis Niko: PM18471, Paratype.

Niko, S. (1990a): Early Devonian (Gedinnian) Actinocerid Cephalopods from the Fukuji formation, central Japan. *Jour. Paleont.*, vol.64, no.4, pp. 595-600, 3 figs.

PM18472. *Ormoceras japonicum* Niko, p.595, figs.2-1-4; 3-6, Holotype.

PM18473. *Ormoceras japonicum* Niko, p.595, fig.2-5,6, Paratype.

PM18474. *Metarmenoceras kameii* Niko, p.596, fig.3-3,4,5,7, Holotype.

Niko, S. (1990b): Early Carboniferous (Viséan) Cephalopods from the Hikoroichi formation, southern Kitakami Mountains. *Trans. Proc. Palaeont. Soc. Japan,* N. S., no.159, pp.554-561, 3 figs.

PM18784. *Neocycloceras (?)* sp., p.555, fig.1-4. [see also Niko (1989b)]

PM18785. *Adnatoceras onimarense* Niko, p.555, fig.2-2,3,4,5, Holotype.

PM18787. *Dolorthoceras (?)* sp., p.557, fig.2-1. [see also Niko (1989b)]

The following specimens, which were mentioned but not illustrated in this paper, are also preserved in this museum.

Adnatoceras (?) sp.: PM18786, PM18788 [see also Niko (1989b)]

Niko, S. (1991): Plicatoceras, a new Lamellorthoceratid cephalopod genus from the Gedinnian (early Devonian) of central Japan. *Jour. Paleont.*, vol.65, no.6, pp.917-919, fig.1.

PM18481. *Plicatoceras nishidai* Niko, p.917, fig.1-1-6, Holotype.

Niko, S. (1993): Orthoceratid cephalopods from the early Devonian Fukuji formation of Gihu Prefecture, central Japan. *Jour. Paleont.*, vol.67, no.2, pp.210-216, 4 figs.

PM18477. *Michelinoceras yamakoshii* Niko, p.211, fig.1-5,12, Paratype.

PM18479. *Plagiostomoceras ?* sp., p.211, fig.3-8.

PM18480. *Plagiostomoceras ?* sp., p.211, fig.3-9. (missing)

PM18491. *Metaspyroceras insignis* Niko, p.213, fig.3-6,7m Paratype.

PM18860. *Michelinoceras yamakoshii* Niko, p.211, figs.1-1,2; 2-1, Holotype.

PM18861. *Michelinoceras yamakoshii* Niko, p.211, fig.1-4, Paratype.

PM18862. *Michelinoceras yamakoshii* Niko, p.211, fig.1-3, Paratype.

PM18872. *Michelinoceras yoshikiense* Niko, p.211, figs.1-6,7; 2-2, Holotype.

Niko, S. (1993): continued

PM18873. *Michelinoceras yoshikiense* Niko, p.211, fig.1-9,10, Paratype.

PM18874. *Michelinoceras yoshikiense* Niko, p.211, fig.1-8,11, Paratype.

PM18888. *Metaspyroceras insignis* Niko, p.213, fig.3-1,5, Holotype.

PM18890. *Metaspyroceras ingignis* Niko, p.213, fig.3-3,4, Paratype.

PM18891. *Metaspyroceras insignis* Niko, p.213, fig.3-6,7, Paratype.

PM19640. *Polygrammoceras* sp., p.213, fig.4-1,2,6.

PM19641. *Polygrammoceras* sp., p.213, fig.4-3,4,5.

The following specimens, which were mentioned but not illustrated in this paper, are also preserved in this museum.

Michelinoceras yoshikiense Niko: PM18475, PM18476, PM18875 (Paratypes), PM18876, PM18877, PM18878, PM18879, PM18880, PM18881, PM18882, PM18883, PM18884, PM18885, PM18886, PM18887.

Michelinoceras yamakoshii Niko: PM18478, PM18523, PM18863(Paratype), PM18864(Paratype), PM18865, PM18866, PM18867, PM18868, PM18869, PM18870, PM18871.

Metespyroceras insignis Niko: PM18492, PM18889(Paratype), PM18892, PM18893, PM18894, PM18895, PM18896, PM18897.

Niko, S. and Hamada, T. (1986): The Middle Silurian Foraminifer (Saccaminopsis) from the Gion-yama formation, central Kyushu. *Sci. Pap. Coll. Arts and Sci. (Coll. Gen. Educ.), Univ. Tokyo,* vol.36, no.2, pp.173-178, 3 figs.

PF18084. *Saccamminops s okimurai* Niko and Hamada, p.176, fig.3-B,E, Holotype.

PF18085. *Saccamminopsis okimurai* Niko and Hamada, p.176, fig.3-A, Paratype.

PF18086. *Saccamminopsis okimurai* Niko and Hamada, p.176, fig.3-C, Paratype.

PF18087. *Saccamminopsis okimurai* Niko and Hamada, p.176, fig.3-D, Paratype.

Niko, S. and Hamada, T. (1987): Adnatoceras from Middle Carboniferous of the Ichinotani formation, Fukuji district, central Japan. *Trans. Proc. Palaeont. Soc. Japan,* N. S., no.148, pp.223-227, 3 figs.

PM18068. *Adnatoceras ichinotaniensis* Niko and Hamada, p.225, fig.3-1,2,3, 5, Holotype.

Niko, S. and Hamada, T. (1987): continued

PM18069. *Adnatoceras ichinotaniensis* Niko and Hamada, p.225, fig.3-4,6, Paratype.

Niko, S. and Hamada, T. (1988): Early Devonian Receptaculitid (Ischadites) from the Fukuji formation, central Japan. *Jour. Geol. Soc. Japan,* vol. 94, no.5, pp.337-342, pl.1, 2 figs.

PS18259. *Ischadites okazakii* Niko and Hamada, p.338, pl.1, fig.1a-c, Holotype.

PS18260. *Ischadites okazakii* Niko and Hamada, p.338, pl.1, fig.2, Paratype.

The following specimen, which were mentioned but not illustrated in this paper, are also preserved in this museum.

Ischadites okazakii Niko and Hamada: PS18261

Niko, S., Hamada, T. and Yasui, T. (1989): Silurian Orthoceratacеae (Mollusca: Cephalopoda) from the Yokokurayama formation, Kurosegawa terrane. *Trans. Proc. Palaeont. Soc. Japan,* N. S., no.154, pp.59-67, 3 figs.

PM18256. *Kopaninoceras kobayshii* Niko, Hamada and Yasui, p.61, fig.2A,B, Holotype.

PM18257. *Protokionoceras fessicancellatum* Kobayashi, p.64, fig.2D,E; fig.3A-D.

Niko, S. and Nishida, T. (1987): Early Permian cephalopods from the Mizuyagadani formation, Fukuji district, central Japan. *Trans. Proc. Palaeont. Soc. Japan,* N. S., no.146, pp.35-41, 3 figs.

PM17973. *Bitaunioceras undulatum* Niko and Nishida, p.37, fig.2-5,6, Holotype.

PM17975. *Bitaunioceras undulatum* Niko and Nishida, p.37, fig.2-1,2,3, Paratype.

PM17976. *Bitaunioceras undulatum* Niko and Nishida, p.37, fig.2-4, Paratype.

PM17977. *Bitaunioceras undulatum* Niko and Nishida, p.37, fig.2-7, Paratype.

PM17978. Pseudorthoceratid, gen. et sp. indet., p.39, fig.3-3,4,5.

Oji, T. (1989): Distribution of the stalked Crinoids from Japanese and nearby waters. *The Univ. Museum, The Univ. Tokyo, Nature and Culture,* no.1, pp.27-43, 4 figs.

The following specimens, which were mentioned but not illustrated in this paper, are preserved in this museum.

Metacrinus rotundus Carpenter: RE18588, RE18589

Metacrinus interruptus Carpenter: RE18590, RE18591

Metacrinus wyvillii Carpenter: RE18592

Metacrinus serratus Döderlein: RE18593

Saracrinus nobilis (Carpenter): RE18594

Endoxocrinus alternicirrus (Carpenter): RE18595, RE18596

Hypalocrinus naresianus (Carpenter): RE18579, RE18598

Phrynocrinus nudus Clark: RE18599

Oji, T. (1990a): Miocene Isocrinidae (Stalked Crinoids) from Japan and their biogeographic implication. *Trans. Proc. Palaeont. Soc. Japan,* N. S., no.157, pp.412-429, 6 figs.

CE18691. *Teliocrinus springeri* (Clark), p.423, figs.4-3; 6-1,2.

CE18692. *Isocrinus* sp., p.425, fig.6-4.

CE18693. *Isocrinus* sp., p.425, fig.6-5.

CE18694. *Isocrinus* sp., p.425, fig.6-6.

CE18695. *Isocrinus* sp., p.425, fig.6-7.

CE18696. *Isocrinus* sp., p.425, fig.6-8.

CE18700. *Isselicrinus* sp., p.427, fig.6-13,14.

CE18701. *Isselicrinus* sp., p.427, fig.6-11,12. (missing)

The following specimens, which were mentioned but not illustrated in this paper, are also preserved in this museum.

Isocrinus sp.: CE18697, CE18698, CE18699

Isselicrinus sp.: CE18702, CE18703, CE18704

Oji, T. (1990b): "Crinoidea" in Echinoderms from continental shelf and slope around Japan. vol.1. *Japan Fisheries Resource Conservation Association,* pp.23-34, pls.3, 2 figs.

RE18840. *Metacrinus costatus* Carpenter, p.28, pl.1.

RE18841. *Comanthus pinguis* Clark, p.30, pl.2.

RE18842. *Heliometra glacilis maxima* (Clark), p.32, pl.3.

Oji, T. (1991): "Crinoidea" in Echinoderms from continental shelf and slope around Japan. vol.2. *Japan Fisheries Resource Conservation Association,* pp.19-40, 9 pls.

RE18592. *Metacrinus wyvillii* Carpenter, p.26, pl.3. [see also Oji (1989)]

RE18594. *Saracrinus nobilis* (Carpenter), p.28, pl.4. [see also Oji (1989)]

RE18595. *Endoxocrinus alternicirrus* (Carpenter), p.30, pl.5, left. [see also Oji (1989)]

RE18596. *Endoxocrinus alternicirrus* (Carpenter), p.30, pl.5, right. [see also Oji (1989)]

RE18597. *Hypalocrinus naresianus* (Carpenter), p.32, pl.6. [see also Oji (1989)]

RE18599. *Phrynocrinus nudus* Clark, p.36, pl.8. [see also Oji (1989)]

RE18843. *Metacrinus rotundus* Carpenter, p.22, pl.1.

RE18844. *Metacrinus interruptus* Carpenter, p.24, pl.2.

RE18849. *Asterometra macropoda* (Clark), p.38, pl.9.

The following specimens, which were mentioned but not illustrated in this paper, are also preserved in this museum.

Metacrinus interruptus Carpenter: RE18845-18848

Asterometra macropoda (Clark): RE18850-18859

Okamoto, T. (1988a): Analysis of heteromorph ammonoids by differential geometry. *Palaeontology*, vol.31, pt.1, pp.35-52, pl.7, 11 figs.

MM7560. *Nipponites mirabilis* Yabe, p.38, fig.4A, Holotype. [see also Yabe (1904)]

MM17738. *Nipponites mirabilis* Yabe, p.45, fig.11D; pl.7, fig.10.

MM17739. *Scalarites scalaris* (Yabe), p.45, fig.10A; pl.7, fig.1.

MM17740. *Scalarites scalaris* (Yabe), p.45, fig.A.

MM17741. *Hyphantoceras orientale* (Yabe), p.45, pl.7, fig.7.

Okamoto, T. (1988b): Changes in life orientation during the ontogeny of some heteromorph ammonoids. *Palaeontology*, vol.31, pt.2, pp.281-294, 11 figs.

MM17972. *Ainoceras kamuy* Matsumoto and Kanie, p.288, fig.7A.

Okamoto, T. (1988c): Developmental regulation and morphological saltation in the heteromorph ammonite Nipponites. *Paleobiology*, vol.14, no.3, pp.272-286, 11 figs.

MM7560. *Nipponites mirabilis* Yabe, p.276, fig.2A,B, Holotype. [see also Yabe (1904), Okamoto (1988a)]

MM17738. *Nipponites mirabilis* Yabe, p.277, fig.5E. [see also Okamoto (1988a)]

MM18254. *Nipponites mirabilis* Yabe, p.277, fig.2C. .

MM18255. *Nipponites* sp., p.277, fig.2F.

The following specimen, though not illustrated, were also treated in this paper.

Nipponites mirabilis var. *sachalinensis* Kawada: MM7666 [see also Kawada (1929)]

Okamoto, T. (1989): Comparative morphology of Nipponites and Eubostrychoceras (Cretaceous Nostoceratids). *Trans. Proc. Palaeont. Soc. Japan*, N. S., no.154, pp.117-139, figs.1-15.

MM7559. *Eubostrychoceras japonicum* (Yabe), p.139, fig.14-4, Holotype. [see also Yabe (1904)]

MM7560. *Nipponites mirabilis* Yabe, p.139, fig.14-5, Holotype. [see also Yabe (1904), Okamoto (1988a)]

Okamoto, T. (1989): continued

MM7666. *Nipponites mirabilis* var. *sachalinensis* Kawada, p.139, fig.15-3, Holotype. [see also Kawada (1929), Okamoto (1988c)]

MM18254. *Nipponites mirabilis* Yabe, p.139, fig.14-6. [see also Okamoto (1988c)]

MM18255. *Nipponites* sp., p.139, fig.15-5. [see also Okamoto (1988c)]

MM18524a. *Eubostrychoceras japonicum* (Yabe), p.139, fig.14-1.

MM18524b. *Eubostrychoceras japonicum* (Yabe), p.139, fig.14-2.

MM18527. *Eubostrychoceras japonicum* (Yabe), p.139, fig.12-4.

MM18529. *Eubostrychoceras japonicum* (Yabe), p.139, fig.13-1.

MM18530. *Eubostrychoceras japonicum* (Yabe), p.139, fig.12-2.

MM18533. *Eubostrychoceras japonicum* (Yabe), p.139, fig.14-3.

MM18548. *Eubostrychoceras japonicum* (Yabe), p.139, fig.12-1.

MM18570. *Nipponites bacchus* Matsumoto and Muramoto, p.139, fig.15-2.

MM18571a. *Nipponites mirabilis* Yabe, p.139, figs.13-3; 14-7.

The following specimens, which were mentioned but not illustrated in this paper, are also preserved in this museum.

Eubostrychoceras japonicum (Yabe): MM18524c,d, MM18525a-c, MM18526, MM18528, MM18531, MM18532a,b, MM18534, MM18535a,b, MM18536, MM18537a,b, MM18538a-e, MM18539, MM18540, MM18541, MM18542a-c, MM18543b-d, MM18544 a,b, MM18545, MM18546, MM18547, MM18549, MM18550, MM18572, MM18580, *18581.

Nipponites bacchus Matsumoto and Muramoto: MM7667 [I-1512], *MM18551, MM18560, *MM18568, MM18576, *MM18578

Nipponites mirabilis Yabe: MM17738 [see also Okamoto (1988a), (1988c)], *MM18552, *MM18554 [see also Okamoto (1988c)], *MM18555, *MM18562, MM18564, *MM18569, MM18571b, MM18573, MM18575, *MM18579

Nipponites cfr. *mirabilis* Yabe: *MM18557, *MM18567

Nipponites sp.: MM7668 [I-1513], *MM18553, *MM18556, *MM18558, *MM18559, *MM18561, *MM18563, *MM18565, *MM18566, MM18574, MM18577

Scalarites sp.: MM18525d, MM18543a

Shigeta. Y. (1989): Systematics of the Ammonite genus Tetragonites from the Upper Cretaceous of Hokkaido. *Trans. Proc. Palaeont. Soc. Japan,* N. S., no.156, pp.319-342, 13 figs.

MM18635-1. *Tetragonites terminus* Shigeta, p.338, fig.13-8a,b, Holotype.

MM18635-2. *Tetragonites terminus* Shigeta, p.338, fig.13-9, Paratype.

MM18635-4. *Tetragonites terminus* Shigeta, p.338, fig.13-10a,b, Paratype.

MM18636-2. *Tetragonites terminus* Shigeta, p.338, fig.11-E,F, Paratype.

MM18638-13. *Tetragonites glabrus* (Jimbo), p.334, fig.12-5.

MM18638-15. *Tetragonites glabrus* (Jimbo), p.334, fig.12-4.

MM18638-16. *Tetragonites glabrus* (Jimbo), p.334, fig.12-3.

MM18640-3. *Tetragonites glabrus* (Jimbo), p.334, fig.12-6.

MM18642-1. *Tetragonites minimus* Shigeta, p.336, fig.13-1, Paratype.

MM18642-6. *Tetragonites minimus* Shigeta, p.336, fig.11-C,D, Paratype.

MM18653. *Tetragonites glabrus* (Jimbo), p.334, fig.12-2a,b.

MM18654. *Tetragonites glabrus* (Jimbo), p.334, fig.12-7a,b.

MM18655-1. *Tetragonites minimus* Shigeta, p.336, fig.13-2a,b, Paratype.

MM18662-5. *Tetragonites glabrus* (Jimbo), p.334, fig.12-1a,b.

MM18665-1. *Tetragonites glabrus* (Jimbo), p.334, fig.11-A,B.

MM18667. *Tetragonites minimus* Shigeta, p.336, fig.13-4a,b, Holotype.

MM18671-1. *Tetragonites minimus* Shigeta, p.336, fig.13-5a,b, Paratype.

MM18678-1. *Tetragonites minimus* Shigeta, p.336, fig.13-3a,b, Paratype.

MM18681-1. *Tetragonites minimus* Shigeta, p.336, fig.13-7a,b, Paratype.

MM18682-1. *Tetragonites minimus* Shigeta, p.336, fig.13-6a,b, Paratype.

The following specimens, which were mentioned but not illustrated in this paper, are preserved in this museum.

Tetragonites glabrus (Jimbo): MM18638-1-12, MM18638-14, MM18638-17-110, MM18640-1,2,4-18, MM18641-1-7, MM18643-1-3, MM18645, MM18646-1-3, MM18647-1,2, MM18648, MM18649-1,2, MM18650-1-7, MM18651-1-3, MM18652-1,2, MM18656-1-3, MM18657-1,2, MM18658, MM18660-1-14, MM18661, MM18662-1-4, MM18662-6-10, MM18663, MM18664, MM18665-2, MM18666-1,2, MM18668-1-6, MM18669-1-3, MM18670-1-15, MM18672-1-6, MM18673-1-11, MM18674-1,2, MM18675-1-5, MM18676-1-13, MM18677-1-5, MM18679, L8680-1,2

Tetragonites minimus Shigeta: MM18639-1-3, MM18642-2-5, MM18642-7-9, MM18644, MM18655-2-4, MM18659-1,2, MM18671-2,3, MM18678-2-7, MM18681-2, MM18682-2-4, Paratypes

Tetragonites terminus Shigeta: MM18635-3, MM18635-5-8, MM18636-1,3, MM18637-1-6, Paratypes

Shigeta, Y. (1992): A record of Pseudophyllites indra (Lytoceratina, Tetragonitidae) from the Upper Cretaceous of Hokkaido and Sakhalin. *Trans. Proc. Palaeont. Soc. Japan,* N. S., no.166, pp.1157-1163, 4 figs.

MM18991. *Pseudophyllites indra* (Forbes), p.1158, fig.4.

MM18994. *Pseudophyllites indra* (Forbes), p.1158, figs.2, 3-1a,b.

MM18995. *Pseudophyllites indra* (Forbes), p.1158, fig.3-3a,b.

MM18996. *Pseudophyllites indra* (Forbes), p.1158, fig.1-1,2.

MM19001. *Pseudophyllites indra* (Forbes), p.1158, fig.3-1a,b.

MM19005. *Pseudophyllites indra* (Forbes), p.1158, fig.3-5.

MM19007. *Pseudophyllites indra* (Forbes), p.1158, fig.3-4a,b.

MM19008. *Pseudophyllites indra* (Forbes), p.1158, fig.3-6a,b.

The following specimens, which were mentioned but not illustrated in this paper, are also preserved in this museum.

Pseudophyllites indra (Forbes): MM18992, MM18993, MM18997, MM18998, MM18999, MM19000, MM19002, MM19003, MM19004, MM19006

Shigeta, Y. (1993): Post-hatching early life history of Cretaceous Ammonoidea. *Lethaia,* vol.26, pp.133-145, 15 figs, 2 tables.

MM18919. *Tragodesmoceroides subcostatus* Matsumoto, p.134, fig.9.

MM18977. *Tetragonites glabrus* (Jimbo), p.134, figs.2, 9.

MM18984. *Hypophylloceras subramosum* (Shimizu), p.135, fig.9.

MM18987. *Tetragonites glabrus* (Jimbo), p.136, fig.2.

MM18988. *Tetragonites glabrus* (Jimbo), p.141, fig.10, table 2.

MM18989. *Tragodesmoceroides subcostatus* Matsumoto, p.141, fig.10, table 2.

MM18990. *Hypophylloceras subramosum* (Shimizu), p.141, fig.10, table 2.

The following specimens, though not illustrated, were also treated in this paper.

Desmoceras kossmati Matsumoto: MM18916

Desmoceras japonicum Yabe: MM18917

Desmoceras ezoanum Matsumoto: MM18918

Damesites sugata (Forbes): MM18920

Damesites semicostatus Matsumoto: MM18921

Damesites damesi (Jimbo): MM18922

Shigeta, Y. (1993): continued

Damesites hetonaiensis Matsumoto: MM18923

Desmophyllites diphylloides (Forbes): MM18924

Puzosia orientalis Matsumoto: MM18925

Mesopuzosia pacifica Matsumoto: MM18926

Mesopuzosia yubarensis (Jimbo): MM18927

Kitchinites ishikawai (Jimbo): MM18928

Microdesmoceras tetragonum Matsumoto and Muramoto: MM18929

Bhimaites takahashii Matsumoto: MM18930

Hauericeras angustum Yabe: MM18931

Anapachydiscus yezoensis Matsumoto: MM18932

Eupachydiscus haradai (Jimbo): MM18933

Canadoceras kossmati Matsumoto: MM18934

Canadoceras mysticum Matsumoto: MM18935

Teshioites sp.: MM18936

Valdedorsella akuschaensis (Anthula): MM18937

Pseudohaploceras nipponicus (Shimizu): MM18938

Eogunnarites unicus (Yabe): MM18939

Marshallites compressus Matsumoto: MM18940

Yokoyamaoceras jimboi Matsumoto: MM18941

Metaplacenticeras subtilistriatum (Jimbo): MM18942

Mantelliceras japonicum Matsumoto, Muramoto and Takahashi: MM18943

Calycoceras orientale Matsumoto, Saito and Fukada: MM18944

Subprionocyclus neptuni (Geinitz): MM18945

Subprionocyclus minimus (Hayasaka and Fukada): MM18946

Protexanites minimus Matsumoto: MM18947

Texanites kawasakii (Kawada): MM18948

Karsteniceras obatai Matsukawa: MM18949

Hypacanthoplites subcornuerianus (Shimizu): MM18950

Diadochoceras nodosocostatiforme (Shimizu): MM18951

Scaphites planus (Yabe): MM18952

Scaphites yonekurai Yabe: MM18953

Scaphites pseudoaequalis Yabe: MM18954

Otoscaphites puerculus (Jimbo): MM18955

Shigeta, Y. (1993): continued

Otoscaphites klamathensis (Anderson): MM18956
Otoscaphites matsumotoi Tanabe: MM18957
Gabbioceras michelianum (d'Orbigny): MM18958
Parajaubertella kawakitana Matsumoto: MM18959
Telandites inflatus Matsumoto: MM18960
Zelandites mihoensis Matsumoto: MM18961
Zelandites kawanoi (Jimbo): MM18962
Zelandites varuna (Forbes): MM18963
Anagaudryceras buddha (Forbes): MM18964
Anagaudryceras limatum (Yabe): MM18965
Anagaudryceras yokoyamai (Yabe): MM18966
Anagaudryceras nanum Matsumoto: MM18967
Anagaudryceras tetragonum Matsumoto and Kanie: MM18968
Anagaudryceras matsumotoi Morozumi: MM18969
Eogaudryceras aff. *aurarium* (Anderson): MM18970
Gaudryceras aff. *stefaninii* Venzo: MM18971
Gaudryceras denseplicatum (Jimbo): MM18972
Gaudryceras tenuiliratum Yabe: MM18973
Gaudryceras striatum (Jimbo): MM18974
Gaudryceras tombetsense Matsumoto: MM18975
Tetragonites aff. *kirchini* (Krenkel): MM18976
Tetragobites popetensis Yabe: MM18978
Tetragonites minimus Shigeta: MM18979
Pseudophyllites indra (Forbes): MM18980
Saghalinites teshioensis Matsumoto: MM18981
Partschiceras japonicum (Matsumoto): MM18982
Hypophylloceras velledae (Michelin): MM18983
Hypophylloceras hetonaiense (Matsumoto): MM18985
Phyllopachyceras ezoense (Yokoyama): MM18986

Tanabe, K. (1983): Mode of life an inoceramid bivalve from the Lower Jurassic of West Japan. *N. Jb. Geol. Paläont. MH.*, H.7, pp.419-428, 6 figs.

MM18220. [= EE1030] *Protogrammoceras nipponicum* (Yokoyama) with *Pseudimytiloides matsumotoi* (Hayami), p.425, fig.5A,B.

MM18221. [= EE1031] *Pseudomytiloides matsumotoi* (Hayami), p.421, fig.2A.

MM18222. [= EE1032] *Pseudomytiloides matsumotoi* (Hayami), p.421, fig.2B.

MM18223. [= EE1033] *Harpoceras chrysanthemum* (Yokoyama) with *Pseudomytiloides* (Hayami), p.422, fig.3A,B.

Tanabe, K. (1988): Age and growth rate determinations of an intertidal bivalve, Phacosoma japonicum, using internal shell increments. *Lethaia,* vol.21, pp.231-241, 10 figs.

RM18272. *Phacosoma japonicum* (Reeve), p.231, fig.1A,B; fig.2A.

RM18580. *Phacosoma japonicum* (Reeve), p.231, fig.2B-F.

RM18581. *Phacosoma japonicum* (Reeve), p.231, figs.3,5.

Tanabe, K. (1989): Endocochliate embryo model in the Mesozoic Ammonitida. *Historical Biology,* vol.2, pp.183-196, 7 figs.

MM18320. *Hypophylloceras subramosum* (Spath), p.184, fig.2-D.

MM18321. *Phyllopachyceras ezoense* (Yokoyama), p.184, fig.2-C.

MM18322. *Gaudryceras denseplicatum* (Jimbo), p.184, fig.2-A,B.

MM18325. *Desmophyllites* sp., p.184, fig.3-B.

MM18326. *Desmophyllites* sp., p.184, fig.4-A-D.

MM18327. *Anapachydiscus* sp., p.184, fig.1-A,B.

MM18328. *Metaplacenticeras subtilistriatum* (Jimbo), p.184, fig.1-E,F.

MM18329. *Scaphites pseudoaequalis* (Yabe), p.184, fig.1-C,D; fig.3-A.

RM18579. *Spirula spirula* (Linnè), p.188, fig.6-A,B.

RM18582. *Spirula spirula* (Linnè), p.188, fig.6-C,D.

The following specimens, which were mentioned but not illustrated in this paper, are also preserved in this museum.

Gaudryceras tenuiliratum Yabe: MM18323

Anagaudryceras limatum (Yabe): MM18324

Tanabe, K. (1990): Early life history of two Middle Pleistocene species of Limopsis (Arcoida: Bivalvia). *Trans. Proc. Palaeont. Soc. Japan,* N. S., no.160, pp.631-640, 4 figs.

CM18800-1. *Limopsis (Crenulilimopsis) oblonga* (Adams), p.633, fig.2-A.
CM18800-2. *Limopsis (Crenulilimopsis) oblonga* (Adams), p.633, fig.2-D.
CM18800-3. *Limopsis (Crenulilimopsis) oblonga* (Adams), p.633, fig.2-E.
CM18800-4. *Limopsis (Crenulilimopsis) oblonga* (Adams), p.633, fig.2-F.
CM18801-1. *Limopsis (Limopsis) azumana* Yokoyama, p.635, fig.3-A.
CM18801-2. *Limopsis (Limopsis) azumana* Yokoyama, p.635, fig.3-B.
CM18801-3. *Limopsis (Limopsis) azumana* Yokoyama, p.635, fig.3-C.
CM18801-4. *Limopsis (Limopsis) azumana* Yokoyama, p.635, fig.3-D.
CM18801-5. *Limopsis (Limopsis) azumana* Yokoyama, p.635, fig.3-E.
CM18801-6. *Limopsis (Limopsis) azumana* Yokoyama, p.635, fig.3-F.

Tanabe, K. (1991): Early Jurassic macrofauna of the oxygen-depleted epicontinental marine basin in the Toyora area, west Japan. *Saito Ho-on Kai,* Spec. Pub., no.3, pp.147-161, 2 pls., 4 figs., 3 tables.

MM18220. *Pseudomytiloides matsumotoi* (Hayami), p.150, pl.2, fig.1. [see also Tanabe (1983)]
MM18223. *Pseudomytiloides matsumotoi* (Hayami), p.150, pl.1, fig.9. [see also Tanabe (1983)]
MM18789. *Posidonotis dainellii* Losacco, p.150, pl.1, fig.1.
MM18790. *Paravamussium* sp., p.153, pl.1, fig.2.
MM18791. *"Ostrea"* sp., p.153, pl.1, fig.3.
MM18792. *Modiolus* sp., p.153, pl.1, fig.4.
MM18793. *Bositra* sp. B, p.153, pl.1, fig.5.
MM18794. *Meleagrinella* sp., p.153, pl.1, fig.6.
MM18795. *Goniomya* sp., p.153, pl.1, fig.7.
MM18796. *Bositra* sp. A, p.153, pl.1, fig.8.
MM18797. *Pseudomytiloides matsumotoi* (Hayami), p.153, pl.2, fig.2.
MM18798. *Gervillia* sp., p.13, pl.1, fig.10.

Tanabe, K. (1993): Variability and mode of evolution of the middle Cretaceous ammonite Subprionocyclus (ammonitina: Collignonicerastidae) fron Japan. *Geobios*, M. S. no.15, pp.347-357, pl.1, figs.1-7.

MM18209. *Subprionocyclus bravaisianus* (d'Orbigny), p.348, fig.2B; pl.1, fig.8. [see also Tanabe and Shigeta (1987)]

MM18808-1.* *Subprionocyclus* cf. *bakeri* (Anderson), p.348, pl.1, fig.4a,b.

MM18808-4. *Subprionocyclus* cf. *bakeri* (Anderson), p.348, pl.1, fig.3.

MM18808-5. *Subprionocyclus* cf. *bakeri* (Anderson), p.348, pl.1, fig.2a,b.

MM18808-8. *Subprionocyclus* cf. *bakeri* (Anderson), p.348, pl.1, fig.1a,b.

MM18810-3. *Subprionocyclus neptuni* (Geinitz), p.348, pl.1, fig.6a,b.

MM18810-14. *Subprionocyclus neptuni* (Geinitz), p.348, fig.2A.

MM18810-16. *Subprionocyclus neptuni* (Geinitz), p.348, pl.1, fig.5a,b.

MM18812-2. *Subprionocyclus neptuni* (Geinitz), p.348, pl.1, fig.7.

MM18813-1. *Subprionocyclus neptuni* (Geinitz), p.348, pl.1, fig.13.

MM18813-4. *Subprionocyclus neptuni* (Geinitz), p.348, pl.1, fig.12a-c.

MM18813-7. *Subprionocyclus neptuni* (Geinitz), p.348, pl.1, fig.11.

MM18814-1. *Subprionocyclus neptuni* (Geinitz), p.348, pl.1, fig.17.

MM18814-14. *Subprionocyclus neptuni* (Geinitz), p.348, pl.1, fig.14a,b.

MM18814-23. *Subprionocyclus neptuni* (Geinitz), p.348, pl.1, fig.15a,b.

MM18814-25. *Subprionocyclus neptuni* (Geinitz), p.348, fig.2C; pl.1, fig. 16a,b.

The following specimens, which were mentioned but not illustrated in this paper, are also preserved in this museum.

Subprionocyclus cf. *bakeri* (Anderson): MM18808-2,3,6,7,9-13.

Subprionocyclus neptuni (Geinitz): MM18809-1-52; MM18810-1,2,4-13,15; MM18811-1-3; MM18812-1,3-6; MM18813-2,3,5,6,8-14; MM18814-2-13,15-22, 24,26-96.

Tanabe, K. and Chiba, N. (1983): A new species of Deltoidonautilus (Cephalopoda) from the Upper Eocene of western Kyushu. *Venus,* vol.42, no.3, pp.248-258, 2 pls, 2 figs.

CM18225. [= EE1035] *Deltoidonautilus okinoshimensis* Tanabe and Chiba, pl.2, fig.1a-d; fig.2a-c, Holotype.

CM18226. [= EE1036] *Deltoidonautilus okinoshimensis* Tanabe and Chiba, pl.1, fig.1a-c, Paratype.

CM18245. [= EE1039] *Deltoidonautilus okinashimensis* Tanabe and Chiba, pl.1, fig.2, Paratype.

CM18246. [= EE1037] *Deltoidonautilus okinoshimensis* Tanabe and Chiba, pl.2, fig.2, Paratype.

Tanabe, K. and Fukuda, Y. (1983): Buccal mass structure of the Cretaceous ammonite Gaudryceras. *Lethaia,* vol.16, pp.249-256, 7 figs.

MM18219. [= EE1014] *Gaudryceras* sp., p.249, figs.1,2.

Tanabe, K. and Fukuda, Y. (1987): The jaw apparatus of the Cretaceous ammonite Reesidites. *Lethaia,* vol.20, pp.41-48, 5 figs.

MM18262. *Reesidites minimus* (Hayasaka and Fukada), p.41, fig.1A,B.

MM18264. *Reesidites minimus* (Hayasaka and Fukada), p.41, figs.1C; 2; 5.

MM18268. *Reesidites minimus* (Hayasaka and Fukada), p.41, fig.1E,F.

MM18270. *Reesidites minimus* (Hayasaka and Fukada), p.41, figs.1D; 4.

Tanabe, K., Landman, N. H., Mapes, R. H. and Faulkner, C. J. (1993): Analysis of a Carboniferous embryonic ammonoid assemblage - implications for ammonoid embryology. *Lethaia,* vol.26, pp.216-224, 8 figs.

PM18799. *Aristoceras* sp. and *Vidrioceras* sp., p.217, fig.1A.

PM19009. *Aristoceras* sp. and *Vidrioceras* sp., p.217, fig.2.

PM19010. *Aristoceras* sp., p.220, fig.7A-D.

PM19011. *Aristoceras* sp., p.219, fig.3B.

PM19012-1. *Aristoceras* sp., p.220, fig.4A-D.

PM19012-2. *Aristoceras* sp., p.220, fig.5A-D.

PM19012-3. *Aristoceras* sp., p.220, fig.6A-D.

PM19013. *Aristoceras* sp. and *Vidrioceras* sp., p.217, fig.1B.

Tanabe, K., Landman, N. H., Mapes, R. H. and Faulkner, C. J. (1993): continued

PM19014. *Vidrioceras* sp., p.219, fig.3A.

Tanabe, K. and Oba, T. (1988): Latitudinal variation in shell growth patterns of Phacosoma japonicum (Bivalvia: Veneridae) from the Japanese coast. *Marine Ecology, Progress series,* vol.47, pp.75-82, 9 figs.

PM18584. *Phacosoma japonicum* (Reeve), p.75, fig.3D.

RM18585. *Phacosoma japonicum* (Reeve), p.75, fig.3C.

RM18586. *Phacosoma japonicum* (Reeve), p.75, fig.3A,B.

RM18587. *Phacosoma japonicum* (Reeve), p.75, fig.3E.

The following specimen, which were mentioned but not illustrated in this paper, are also preserved in this museum.

Phacosoma japonicum (Reeve): RM18583

Tanabe, K., Obata, I. and Futakami, M. (1981): Early shell morphology in some Upper Cretaceous heteromorph ammonites. *Trans. Proc. Palaeont. soc. Japan,* N. S., no.124, pp.215-234, pls.35-38, 11 figs.

MM18215. [= EE1010] *Scalarites scalaris* (Yabe), p.222, pl.38, fig.1a,b, text-fig.6.

MM18216. [= EE1011] *Scalarites mihoensis* Wright and Matsumoto, p.223, pl.37, fig.3, text-fig.7.

MM18217. [= EE1012] *Scalarites (?)* aff. *Scalarites scalaris* (Yabe), p.224, pl.38, fig.2a,b, text-fig.8.

MM18218. [= EE1013] *Madagascarites ryu* Matsumoto and Muramoto, p.219, pl.36, fig.3a,b, text-fig.4.

Tanabe, K. and Shigeta, Y. (1987): Ontogenetic shell variation and streamlining of some Cretaceous ammonites. *Trans. Proc. Palaeont. Soc. Japan,* N. S., no.147, pp.165-179, 8 figs.

MM18197. *Hypophylloceras subramosum* (Spath), p.166, fig.2-6A,B.

MM18200. *Gaudryceras denseplicatum* (Jimbo), p.166, fig.2-4A,B.

MM18205. *Damesites semicostatus* Matsumoto, p.166, fig.2-5A,B.

MM18209. *Subprionocyclus bravaisianus* (d'Orbigny), p.166, fig.2-2A,B.

Tanabe, K. and Shigeta, Y. (1987): continued

MM18213. *Yubariceras japonicum* Matsumoto, Saito and Fukada, p.166, fig.2-1A,B.

MM18214. *Placenticeras intercalare* Meek, p.166, fig.2-7A,B.

The following specimens, which were mentioned but not illustrated in this paper, are also preserved in this museum.

Tetragonites glabrus (Jimbo): MM18198

Tetragonites popetensis Yabe: MM18199

Desmoceras japonicum (Yabe): MM18201

Tragodesmoceroides subcostatus Matsumoto: MM18202

Damesites ainuanus Matsumoto: MM18203

Damesites damesi (Jimbo): MM18204

Damesites sugata (Forbes): MM18206

Desmophyllites diphylloides (Forbes): MM18207

Neopuzosia ishikawai (Jimbo): MM18208

Subprionocyclus neptuni (Geinitz): MM18210

Reesidites minimus (Hayasaka and Fukada): MM18211

Yubariceras yubarense Matsumoto, Saito and Fukada: MM18212

Tanabe, K., Shinomiya, A. and Fukuda, Y. (1988): Note on shella breakage in Nautilus pompilius from Fiji. *The Kagoshima Univ., Res. Center for the South Pacific, Occasional Papers,* no.15, pp.52-55, pls.14-16.

RM18802. *Nautilus pompilius* Linné, p.52, pl.16, figs.1-5.

RM18803. *Nautilus pompilius* Linné, p.52, pl.14, fig.4.

RM18804. *Nautilus pompilius* Linné, p.52, pl.15, figs.1-6.

RM18805. *Nautilus pompilius* Linné, p.52, pl.14, fig.2a-b.

RM18806. *Nautilus pompilius* Linné, p.52, pl.14, fig.1a-b.

RM18807. *Nautilus pompilius* Linné, p.52, pl.14, fig.3.

Tanabe, K., Tsukahara, J. and Hayasaka, S. (1990): Comparative morphology of living Nautilus (Cephalopoda) from the Philippines, Fiji and Palau. *Malacologia,* vol.31, no.2, pp.297-312, 12 figs.

RM18705-2. *Nautilus pompilius* Linnaeus, p.298, fig.12D.

RM18705-3. *Nautilus pompilius* Linnaeus, p.297, fig.1C.

Tanabe, K., Tsukahara, J. and Hayasaka, S. (1990): continued

RM18705-4. *Nautilus pompilius* Linnaeus, p.297, fig.4F.
RM18705-5. *Nautilus pompilius* Linnaeus, p.297, figs.4d; 9D; 10C.
RM18705-6. *Nautilus pompilius* Linnaeus, p.297, fig.4E.
RM18705-7. *Nautilus pompilius* Linnaeus, p.297, figs.1D; 9C; 10D; 12C.
RM18705-8. *Nautilus pompilius* Linnaeus, p.297, fig.2D.
RM18706-2. *Nautilus pompilius* Linnaeus, p.297, fig.1G.
RM18707-1. *Nautilus pompilius* Linnaeus, p.297, fig.1F.
RM18707-2. *Nautilus pompilius* Linnaeus, p.297, fig.1E.
RM18707-3. *Nautilus pompilius* Linnaeus, p.297, fig.4G.
RM18707-4. *Nautilus pompilius* Linnaeus, p.297, figs.9E; 10A,B.
RM18707-5. *Nautilus pompilius* Linnaeus, p.297, fig.4H.
RM18707-7. *Nautilus pompilius* Linnaeus, p.297, fig.2B.
RM18707-8. *Nautilus pompilius* Linnaeus, p.297, fig.2C.
RM18707-9. *Nautilus pompilius* Linnaeus, p.297, figs.9F; 12A.
RM18707-10. *Nautilus pompilius* Linnaeus, p.297, fig.12B.
RM18708-2. *Nautilus belauensis* Saunders, p.297, figs.2A; 4C.
RM18708-3. *Nautilus belauensis* Saunders, p.297, fig.1A.
RM18708-4. *Nautilus belauensis* Saunders, p.297, fig.12F.
RM18708-5. *Nautilus belauensis* Saunders, p.297, fig.12E.
RM18708-6. *Nautilus belauensis* Saunders, p.297, figs.9A; 10E.
RM18708-7. *Nautilus belauensis* Saunders, p.297, fig.4A.
RM18708-8. *Nautilus belauensis* Saunders, p.297, figs.4B; 9B.
RM18708-9. *Nautilus belauensis* Saunders, p.297, fig.1B.

The following specimens, which were mentioned but not illustrated in this paper, are also preserved in this museum.

Nautilus pompilius Linnaeus: RM18705-1, RM18706-1, RM18707-6

Nautilus belauensis Saunders: RM18708-1

Tanabe, K. and Zushi, Y. (1988): Larval paleoecology of five bivalve species from the Upper Pliocene of southwest Japan. *Trans. Proc. Palaeont. Soc. Japan,* N. S., no.150, pp.491-500, 3 figs.

CM18263-1. *Glycymeris rotunda* (Dunker), p.492, fig.2C.
CM18265-1. *Limopsis tajimae* Sowerby, p.492, fig.3B-D.

Tanabe, K. and Zushi, Y. (1988): continued

CM18266-1. *Limopsis tajimae* Sowerby, p.492, fig.3A.
CM18267-1. *Oblimopa japonica* (Adams), p.492, fig.2D.
CM18267-2. *Oblimopa japonica* (Adams), p.492, fig.2E-G.
CM18269-1. *Crenulilimopsis oblonga* (Adams), p.492, fig.3G.
CM18269-2. *Crenulilimopsis oblonga* (Adams), p.492, fig.3H,I.
CM18271. *Crenulilimopsis oblonga* (Adams), p.492, fig.3E,F.
CM18273-1. *Venericardia panda* (Yokoyama), p.492, fig.2A,B.

Tsukagoshi, A. (1990): Ontogenetic change of distributional patterns of pore systems in Cythere species and its phylogenetic significance. *Lethaia,* vol.23, pp.225-241, 22 figs., 3 tables.

RA18615. *Cythere uranipponica* Hanai, p.227, fig.1-a.
RA18616. *Cythere uranipponica* Hanai, p.227, fig.1-b.
RA18617. *Cythere uranipponica* Hanai, p.227, fig.1-c.
RA18618. *Cythere uranipponica* Hanai, p.227, fig.1-d.
RA18619. *Cythere uranipponica* Hanai, p.227, fig.1-e.
RA18620. *Cythere utanipponica* Hanai, p.227, fig.1-f.
RA18621. *Cythere schornikovi* Tsukagoshi and Ikeya, p.227, fig.21-a.
RA18622. *Cythere schornikovi* Tsukagoshi and Ikeya, p.227, fig.21-b.
RA18623. *Cythere schornikovi* Tsukagoshi and Ikeya, p.227, fig.21-c.
RA18624. *Cythere schornikovi* Tsukagoshi and Ikeya, p.227, fig.3-a-c.
RA18625. *Cythere uranipponica* Hanai, p.227, fig.3-d-f.
RA18627. *Cythere schornikovi* Tsukagoshi and Ikeya, p.227, fig.22-a,b.

The following specimens, which were mentioned but not illustrated in this paper, are also preserved in this museum.

Cythere schornikovi Tsukagoshi and Ikeya: RA18626, RA18628, RA18629, RA18630

Tsukagoshi, A. and Ikeya, N. (1991): A redescription of Cythere japonica Hanai, 1959 (Podocopida: Ostracoda). *Zoologica Journal of the Linnean Society,* vol.103, pp.129-143, 9 figs.

RA18823. *Cythere japonica* Hanai, p.131, fig.2-A.
RA18824. *Cythere japonica* Hanai, p.131, fig.2-B.

Tsukagoshi, A. and Ikeya, N. (1991): continued

RA18825. *Cythere japonica* Hanai, p.131, figs.3-A,B; 4-C,E,G.
RA18826. *Cythere japonica* Hanai, p.131, figs.3-C,D; 4-D.
RA18827. *Cythere japonica* Hanai, p.131, fig.3-E.
RA18828. *Cythere japonica* Hanai, p.131, fig.3-F.
RA18829. *Cythere japonica* Hanai, p.131, fig.3-G.
RA18830. *Cythere japonica* Hanai, p.131, fig.3-H.
RA18831. *Cythere japonica* Hanai, p.131, fig.3-I.
RA18832. *Cythere japonica* Hanai, p.131, fig.3-J.
RA18833. *Cythere japonica* Hanai, p.131, fig.3-K.
RA18834. *Cythere japonica* Hanai, p.131, fig.4-A,B.
RA18835. *Cythere japonica* Hanai, p.131, fig.4-F.
RA18836. *Cythere japonica* Hanai, p.131, fig.5-a-F,H.
RA18837. *Cythere japonica* Hanai, p.131, fig.5-G.
RA18838. *Cythere japonica* Hanai, p.131, figs.4-H; 9-A.
RA18839. *Cythere uranipponica* Hanai, p.141, fig.9-B.

Yajima, M. (1987): Pleistocene Ostracods from the Atsumi Peninsula, central Japan. *Trans. Proc. Palaeont. Soc. Japan,* N. S., no.146, pp.49-76, 12 figs.

CA17979. *Neonesidea hanaii* Yajima, p.60, figs.5-1; 11-1a,b, Holotype.
CA17980. *Neonesidea hanaii* Yajima, p.60, figs.5-2; 11-2a,b, Paratype.
CA17981. *Anchistrocheles hondai* Yajima, p.60, figs.5-6; 11-5a,b, Holotype.
CA17982. *Anchistrocheles yamaguchii* Yajima, p.62, figs.5-3; 11-4a,b, Holotype.
CA17983. *Anchistrocheles yamaguchii* Yajima, p.62, figs.5-4; 11-3a,b, Paratype.
CA17984. *Paracyris ?* sp., p.63, fig.6-2.
CA17985. *Paracyris ?* sp., p.63, fig.6-3.
CA17986. *Aglaiocyris ? nipponica* Okubo, p.63, fig.6-1.
CA17988. *Coquimba ishizakii* Yajima, p.64, fig.12-2.
CA17989. *Coquimba ishizakii* Yajima, p.64, fig.12-3.
CA17990. *Coquimba poga* Hu, p.64, figs.6-5; 11-9a,b. (missing)
CA17991. *Coquimba poga* Hu, p.64, figs.6-4; 11-8a-c.
CA17992. *Bythocythere alata* Yajima, p.65, figs.7-4; 12-7a-c, Holotype.

Yajima, M. (1987): continued

CA17993. *Bythocythere alata* Yajima, p.65, fig.11-10, Paratype.

CA17994. *Bythocythere ishizakii* Yajima, p.66, figs.7-5; 11-11; 12-9a,b, Holotype.

CA17995. *Bythocythere ishizakii* Yajima, p.66, figs.7-6; 12-8a,b, Paratype.

CA17996. *Bythoceratina angulata* Yajima, p.66, figs.5-5; 11-7a-c, Holotype.

CA17997. *Bythoceratina angulata* Yajima, p.66, fig.11-6a,b, Paratype.

CA17998. *Pseudocythere* sp. 1, p.67, fig.7-1.

CA17999. *Pseudocythere* sp. 1, p.67, fig.7-2.

CA18000. *Pseudocythere* sp. 2, p.67, fig.7-3.

CA18001. *Semicytherura* sp. 1, p.68, fig.12-11.

CA18002. *Semicytherura* sp. 1, p.68, fig.12-10.

CA18003. *Semicytherura* sp. 2, p.68, fig.12-6.

CA18004. *Paracytheridea* sp., p.68, fig.12-12a,b.

CA18005. *Paradoxostoma setosum* Okubo, p.68, fig.9-2.

CA18006. *Paradoxostoma* sp., p.68, fig.8-1.

CA18007. *Sclerochilus* sp., p.68, fig.9-1.

CA18008. *Xiphichilus* sp., p.69, fig.8-2.

CA18009. *Cobanocythere ? pulchra* Yajima, p.70, figs.10-3; 12-5a-c, Holotype.

CA18010. *Cobanocythere ? pulchra* Yajima, p.70, fig.10-2, Paratype.

CA18011. *Hanaicythere nipponica* Yajima, p.74, figs.10-1; 12-4a,b, Holotype.

CA18012. *Hanaicythere nipponica* Yajima, p.74, fig.12-1a,b, Paratype.

Yajima, M. (1988): Preliminary notes on the Japanese Miocene Ostracoda. *In "Evolution biology on Ostracoda", Kodansha Ltd. Tokyo, Japan,* pp. 1073-1085, pls.1,2, text-figs.1-4, 4 tables. (Proceedings of the Ninth International Symposium on Ostracoda)

CA17689. *Ambostracon ikeyai* Yajima, p.1077, pl.1, fig.4.

CA17690. *Cornucoquimba moniwensis* (Ishizaki), p.1077, pl.1, fig.6.

CA17691. *Falsobuntonia taiwanica* Malz, p.1077, pl.1, fig.7.

CA17692. *Pontocythere subjaponica* (Hanai), p.1077, pl.1, fig.8.

CA17693. *Callistocythere* sp., p.1077, pl.1, fig.9.

CA17694. *Hirsutocythere ?* sp., p.1077, pl.1, fig.10.

Yajima, M. (1988): continued

CA17695. *Hirsutocythere ?* sp., p.1077, pl.1, fig.13.
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CA17697. *Semicytherura henryhowei* Hanai and Ikeya, p.1077, pl.1, fig.12.
CA17698. *Schizocythere kishinouyei* (Kajiyama), p.1077, pl.1, fig.14.
CA17699. *Loxocorniculum* sp., p.1077, pl.1, fig.15.
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CA17701. *Kangarina* sp., p.1077, pl.1, fig.17.
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CA17705. *Neonesidea* sp., p.1077, pl.1, fig.21.
CA17706. *Spinileberis ?* sp., p.1074, pl.2, fig.1.
CA17707. *Cletocythereis rastromarginata* (Brady), p.1074, pl.2, fig.2.
CA17708. *Trachyleberis* sp., p.1074, pl.2, fig.3.
CA17709. *Finmarchinella japonica* (Ishizaki), p.1081, pl.2, fig.4.
CA17710. *Finmarchinella japonica* (Ishizaki), p.1081, pl.2, fig.5.
CA17711. *Hemicythere ?* sp., p.1081, pl.2, fig.6.
CA17712. *Hemicytherura cuneata* Hanai, p.1081, pl.2, fig.7.
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CA17714. *Finmarchinella hanaii* Okada, p.1080, pl.2, fig.9.
CA17715. *Finmarchinella hanaii* Okada, p.1080, pl.2, fig.10.
CA17716. *Munseyella* sp., p.1080, pl.2, fig.11.
CA17717. *Cornucoquimba saitoi* (Ishizaki), p.1080, pl.2, fig.12.
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CA17719. *Acanthocythereis ? munechikai* Ishizaki, p.1080, pl.2, fig.14.
CA17720. *Bradleya* sp., p.1080, pl.2, fig.15.
CA17721. *Hirsutocythere ? nozokiensis* (Ishizaki), p.1080, pl.2, fig.16.
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CA17736. *Trachyleberis* sp. 2, p.1077, pl.1, fig.5.
CA17737. *Loxoconcha pulchra* Ishizaki, p.1077, pl.1, fig.3.

Yajima, M. (1992a): Natural history of Trachyleberis scabrocuneata (Crustacea: Ostracoda) from Aburatsubo Cove, Japan. *Bulletin of Tokyo Seitoku College,* no.25, pp.233-239, pl.1, 4 figs.

RA18901. *Trachyleberis scabrocuneata* (Brady), p.233, pl.1, fig.1.

RA18902. *Trachyleberis scabrocuneata* (Brady), p.233, pl.1, fig.2.

RA18903. *Trachyleberis scabrocuneata* (Brady), p.233, pl.1, fig.3.

RA18904. *Trachyleberis scabrocuneata* (Brady), p.233, pl.1, fig.4.

RA18905. *Trachyleberis scabrocuneata* (Brady), p.233, pl.1, fig.5.

RA18906. *Trachyleberis scabrocuneata* (Brady), p.233, pl.1, fig.6.

RA18907. *Trachyleberis scabrocuneata* (Brady), p.233, pl.1, fig.7.

Yajima, M. (1992b): Early Miocene Ostracoda from Mizunami, central Japan. *Bull. Mizunami Fossil Museum,* no.19, pp.247-267, pls.29-32, 2 figs., 1 table.

CA17694. *Hirsutocythere ? akatsukiborensis* Yajima, p.259, pl.32, fig.12, Paratype. [see also Yajima (1988)]

CA17695. *Hirsutocythere ? akatsukiborensis* Yajima, p.259, pl.32, fig.13, Holotype. [see also Yajima (1988)]

CA17704. *Spinileberis* sp., p.256, pl.32, fig.5. [see also Yajima (1988)]

CA19080. *Bairdoppilata itoigawai* Yajima, p.253, pl.29, fig.1a,b; pl.30, fig.2, Holotype.

CA19081. *Bairdoppilata itoigawai* Yajima, p.253, pl.29, fig.2a,b; pl.30, fig.1, Paratype.

CA19082. *Neocytherideis* sp., p.254, pl.31, fig.2.

CA19083. *Munseyella* sp., p.255, pl.31, fig.5.

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CA19088. *Trachyleberis mizunamiensis* Yajima, p.257, pl.32, fig.7, Paratype.

CA19089. *Trachyleberis mizunamiensis* Yajima, p.257, pl.32, fig.9, Paratype.

CA19090. *Trachyleberis mizunamiensis* Yajima, p.257, pl.32, fig.10, Paratype.

Yajima, M. (1992b): continued

CA19091. *Trachyleberis shukunohorensis* Yajima, p.258, pl.32, fig.2, Holotype.

CA19092. *Trachyleberis shukunohorensis* Yajima, p.258, pl.32, fig.1, Paratype.

CA19093. *Trachyleberis shukunohorensis* Yajima, p.258, pl.32, fig.3, Paratype.

CA19094. *Trachyleberis shukunohorensis* Yajima, p.258, pl.32, fig.4, Paratype.

CA19095. *Hirsutocythere ? akatsukiborensis* Yajima, p.259, pl.32, fig.14, Paratype.

CA19096. *Australimoosella hanaii* Yajima, p.360, pl.32, fig.15, Holotype.

CA19097. *Australimmosella hanaii* Yajima, p.260, pl.32, fig.16, Paratype.

CA19098. *Aurila okumurai* Yajima, p.261, pl.29, fig.3a,b; pl.30, figs.4,5, Holotype.

CA19099. *Aurila okumurai* Yajima, p.261, pl.29, fig.4a,b; pl.30, figs.3,6, Paratype.

CA19100. *Cornucoquimbq moniwensis* (Ishizaki), p.262, pl.32, fig.6.

CA19101. *Ambostracon ikeyai* Yajima, p.263, pl.32, fig.11.

CA19102. *Bythocythere* sp., p.263, pl.31, fig.1.

CA19103. *Kangarina yamaguchii* Tabuki, p.264, pl.31, fig.7.

CA19104. *Kangarina yamaguchii* Tabuki, p.264, pl.31, fig.8a,b.

CA19105. *Kangarina yamaguchii* Tabuki, p.264, pl.31, fig.9.

Yajima, M. and Lord, A. (1990): The interpretation of Quaternary environments using Ostracoda: an example from Japan. *Proc. Geol. Ass.*, vol.101, no.2, pp.153-161, 5 figs.

CA8415. *Paracytheridea bosoensis* Yajima, p.159, fig.5-6, Holotype. [see also Yajima (1978)]

CA9835. *Neomonoceratina microreticulate* Kingma, p.159, fig.4-5. [see also Yajima (1982)]

CA9837. *Neomonoceratina microreticulate* Kingma, p.159, fig.4-4. [see also Yajima (1982)]

CA9852. *Robertsonites reticuliforma* (Ishizaki), p.160, fig.4-9. [see also Yajima (1982)]

CA9859. *Finmarchinella (Finmarchinella) uranipponica* Ishizaki, p.160, fig.4-6. [see also Yajima (1982)]

Yajima, M. and Lord, A. (1990): continued

CA9860. *Finmarchinella (Finmarchinella) uranipponica* Ishizaki, p.160, fig.4-7. [see also Yajima (1982)]

CA9863. *Aurila kiritsubo* Yajima, p.159, fig.4-12, Holotype. [see also Yajima (1982)]

CA9864. *Aurila kiritsubo* Yajima, p.159, fig.4-11, Paratype. [see also Yajima (1982)]

CA9896. *Lozoconcha hanachirusato* Yajima, p.159, fig.4-10, Paratype. [see also Yajima (1982)]

CA9898. *Loxoconcha hanachirusato* Yajima, p.159, fig.4-13, Paratype. [see also Yajima (1982)]

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CA9902. *Loxoconcha optima* Ishizaki, p.159, fig.4-15. [see also Yajima (1982)]

CA9909. *Nipponocythere bicarinata* (Brady), p.159, fig.4-2. [see also Yajima (1982)]

CA9911. *Nipponocythere bicarinata* (Brady), p.159, fig.4-1. [see also Yajima (1982)]

CA18600. *Bicornucythere bisanensis* (Okubo), p.159, fig.4-3.

CA18601. *Howeina higashimeyaensis* Ishizaki, p.160, fig.4-8.

CA18602. *Cytheropteron miurense* Hanai, p.159, fig.5-1.

CA18603. *Cytheropteron subuchioi* Zhao, p.159, fig.5-2.

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CA18605. *Cytheromorpha acupunctata* (Brady), p.159, fig.5-4.

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CA18611. *Pontocythere subjaponica* (Hanai), p.159, fig.5-10.

CA18612. *Pontocythere subjaponica* (Hanai), p.159, fig.5-11.

CA18613. *Hemicytherura cuneata* Hanai, p.159, fig.5-13.

CA18614. *Hemicytherura cuneata* Hanai, p.159, fig.5-14.

Yamaguchi, T. and Newman, W. A. (1990): A new and primitive Barnacle (Cirripedia: Balanomorpha) from the North Fiji basin abyssal hydrothermal field, and its evolutionary implications. *Pacific Science,* vol.44, no.2, pp.135-155, 8 figs.

RA18631. *Eochionelasmus ohtai* Yamaguchi, p.136, figs.1,2,4-6, Holotype.

RA18632. *Eochionelasmus ohtai* Yamaguchi, p.136, figs.1,3, Paratype.

RA18633. *Eochionelasmus ohtai* Yamaguchi, p.136, fig.1, Paratype.

RA18634. *Eochionelasmus ohtai* Yamaguchi, p.136, fig.8, Paratype.

Yokoyama, M. (1890): Versteinerungen aus der japanischen Kreide. *Palaeontographica,* Band 36, pp.159-202, pls.18-25. [the original specimens in Bayerische Staatsammlung für Paläontologie und Historische Geologie, München] [see also atsumoto, Hayami and Asano (1963 continued)]

MM7501.* *Pachydiscus Naumanni* Yokoyama, p.187, pl.19, fig.6a,b, Holotype. [see also Matsumoto (1954a)]

MM18295.* *Ptychoceras pseudo-gaultinum* Yokoyama, p.181, pl.20, fig.1, Syntype.

MM18296.* *Ptychoceras pseudo-gaultinum* Yokoyama, p.181, pl.20, fig.2,2a. Syntype.

MM18297.* *Ptychoceras pseudo-gaultinum* Yokoyama, p.181, pl.20, fig.3, Syntype.

MM18298.* *Anisoceras subquadratum* Yokoyama, p.182, pl.20, fig.4, Holotype.

MM18299.* *Anisoceras Haradanum* Yokoyama, p.182, pl.20, fig.5, Holotype.

MM18300.* *Anisoceras subundatum* Yokoyama, p.183, pl.20, fig.6, Syntype.

MM18301.* *Anisoceras* cf. *rugatum* Forbes, p.183, pl.20, fig.8.

MM18302.* *Anisoceras* sp., p.184, pl.20, fig.9.

INDEX OF TAXONOMIC NAMES

In this index taxonomic names of type and illustrated specimens registered in the Department of Historical Geology and Palaeontology are classified into higher taxonomic groups (mainly classes) and alphabetically listed. Each taxonomic name is followed by author name and date of relevant descriptive paper and register number(s). The spelling of taxonomic names in original descriptions, if nomenclaturally incorrect, is not amended here. See the preceding "List of type and illustrated specimens by papers" (pp.5-64) for further details.

INDEX OF TAXONOMIC NAMES

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PORIFERA

PALEOZOIC PORIFERA

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CENOZOIC BRACHIOPODA

RECENT BRACHIOPODA

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Laqueus quadratus: Endo, 1987 [RB18190a,18190]

Laqueus rubellus: Endo, 1987 [RB18186a,b,18186]

Laqueus sp. 1: Endo, 1987 [RB18191a,18191]

Pictothyris picta: Endo, 1987 [RB18194a,18194]

Pictothyris sp.: Endo, 1987 [RB18195a,18195]

ANNELIDA AND PROBLEMATICA

CENOZOIC ANNELIDA AND PROBLEMATICA

Zoophycos sp.: Kotake, 1989 [CW18247-18253]

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Cernina fluctuata nakamurai: Otuka, 1938c [CM12747], Majima, 1989 [CM12747]

Cryptonatica andoi: Yokoyama, 1920 [CM20218], Majima, 1989 [CM20218]

Euspira yokoyamai: Yokoyama, 1920 [CM20231], Majima, 1989 [CM20231]

Glossaulax didyma coticazae: Yokoyama, 1931b [CM25918], Majima, 1989 [CM25918]

Mandarina aureola: Chiba, 1989 [CM18445a,18445,18447,18451,18452a,18452]

Mandarina chichijimana: Chiba, 1989 [CM18407a,b,18407,18416,18417,18418a, 18418]

Mandarina hayamii: Chiba, 1989 [CM18468a,b,18468]

Mandarina hirasei: Chiba, 1989 [CM18422,18424]

Mandarina io: Chiba, 1989 [CM18426a,b,18426]

Mandarina luhuana: Chiba, 1989 [CM18427,18428a,18428,18429a,18429,18430a, 18430,18431]

Mandarina nola: Chiba, 1989 [CM18405a,18405]

Mandarina polita: Chiba, 1989 [CM18458a,18458]

Mandarina ponderosa: Chiba, 1989 [CM18435,18436,18440,18443a,18443]

Mandarina titan: Chiba, 1989 [CM18432a,18432]

"Sinum" festiva: Yokoyama, 1925c [CM22564], Majima, 1989 [CM22564]

Sinum ineptum: Yokoyama, 1923d [CM24624], Otuka, 1934 [CM12079], Majima, 1989 [CM12079,24624]

RECENT GASTROPODA

Mandarina aureola: Chiba, 1989 [RM18444,18446,18448a,18448-18450]

Mandarina chichijimana: Chiba, 1989 [RM18406a,18406,18408-18414,18415a. 18415,18419a,18419]

Mandarina exoptata: Chiba, 1989 [RM18465a,18465]

Mandarina hahajimana: Chiba, 1989 [RM18459,18460a,18460,18461a,18461-18464]

Mandarina hirasei: Chiba, 1989 [RM18420,18421a,18421,18423,18425]

Mandarina mandarina: Chiba, 1989 [RM18400-18402,18403a,18403,18404]

Mandarina polita: Chiba, 1989 [RM18453-18456,18457a,18457]

Mandarina ponderosa: Chiba, 1989 [RM18433,18434a,18434,18437a,18437, 18438a,18438,18439a,18439,18441,18442]

Mandarina suenoae: Chiba, 1989 [RM18466,18467a,18467]

Mandarina sp.: Chiba, 1989 [RM18469a,18469]

MESOZOIC BIVALVIA

Bositra sp. A.: Tanabe, 1991 [MM18796]

Bositra sp. B.: Tanabe, 1991 [MM18793]

Camptonectes auritus: Hayami and Okamoto, 1986 [MM17677]

Camptonectes (Maclearnia) cinctus: Hayami, 1991 [MM18818]

Gervillia sp.: Tanabe, 1991 [MM18798]

Goniomya sp.: Tanabe, 1991 [MM18795]

Halobia sp.: Ando, 1988 [MM18241]

Meleagrinella sp.: Tanabe, 1991 [MM18794]

Modiolus sp.: Tanabe, 1991 [MM18792]

Monotis mabara: Kobayashi and Ichikawa, 1949c [MM5276-5278], Ando, 1987 [MM17656,17658-17660,17662-17669]

Monotis ochotica densistriata: Kobayashi and Ichikawa, 1949c [MM5283], Ichikawa, 1951b [MM5369,5370], Ando, 1984 [MM15715,15717], Ando, 1987 [MM5283,5369,5370,15715,15717,17588-17601]

Monotis ochotica ochotica: Takagi, 1944 [MM5069], Kobayashi and Ichikawa, 1949c [MM5267,5271-5275,5281,5283-5287], Kanagawa and Ando, 1983 [MM6926-6935], Ando, 1984 [MM15720,15726,15727], Ando, 1987 [MM5069,5267,5271-5275,5281,5283-5287,6926-6935,15720,15726,15727,17602-17649]

Monotis scutiformis: Ando, 1984 [MM15710-15714], Ando, 1987 [MM15710-15714,17576-15787]

Monotis zabaikalica: Kobayashi and Ichikawa, 1949c [MM5253-5258,5260, 5261], Ando, 1984 [MM15728-15738], Ando, 1987 [MM5253-5258,5260,5261, 15728-15738,17650-17663]

Mesozoic Bivalvia (continued)

"Ostea" sp.: Tanabe, 1991 [MM18791]

Otapiris subia: Ando, 1988 [MM18227-18237, 18242-18244]

Oxytoma mojsisovicsi: Ando, 1988 [MM18238]

Palaeoneilo sp.: Ando, 1988 [MM18240]

Paravamussium sp.: Tanabe, 1991 [MM18790]

Posidonotis dainellii: Hayami, 1961 [MM4839], Hayami, 1988 [MM4839], Tanabe, 1991 [MM18789]

Pseudomytiloides matsumotoi: Tanabe, 1983 [MM18220-18224], Tanabe, 1991 [MM18220,18223,18797]

Tosapecten suzukii: Ando, 1988 [MM18239]

CENOZOIC BIVALVIA

Amussiopecten praesignis: Hayami, 1991 [CM18821a,18821]

Crenulilimopsis oblonga: Tanabe and Zushi, 1988 [CM18269,18271]

Fortipecten kenyoshiensis: Chinzei and Hiramatsu, 1988 [CM18258]

Fortipecten takahashii: Hayami and Hosoda, 1988 [CM18116a,b,18117a,18116-18118]

Glycymeris rotunda: Tanabe and Zushi, 1988 [CM18263]

Limopsis (Crenulilimopsis) oblonga: Tanabe, 1990 [CM18800]

Limopsis (Limopsis) azumana: Tanabe, 1990 [CM18801]

Limopsis tajimae: Tanabe and Zushi, 1988 [CM18265,18266]

Oblimopa japonica: Tanabe and Zushi, 1988 [CM18267]

Patinopecten (Mizuhopecten) tokyoensis: Hayami and Okamoto, 1986 [CM17685]

Placopecten setanaensis: Hayami, 1991 [CM18817]

Venericardia panda: Tanabe and Zushi, 1988 [CM18273]

RECENT BIVALVIA

Acar sp. aff. *Acar plicata*: Hayami, 1993 [RM19361a,b,19361-19364,19365a,b,19365,19576]

Amusium japonicum: Hayami, 1991 [RM18819a,b,18819]

Amusium pleuronectes: Hayami, 1991 [RM18820]

Bentharca decorata: Hayami and Kase, 1993 [RM19376,19377,19378,19379a-d,19579]

Bentharca excavata: Hayami and Kase, 1993 [RM19383a,b,19383,19384-19389,19390a,b,19390,19391,19580-19582]

Bentharca irregularis: Hayami and Kase, 1993 [RM19380-19383,19382a,b]

Recent Bivalvia (continued)

Bentharca tenuis: Hayami and Kase, 1993 [RM19366-19373,19374a,19374, 19375a,b,19375-19378]

Bathyarca sp.: Hayami and Kase, 1993 [RM19392a,b,19392]

Brachidontes sp. indet.: Hayami and Kase, 1993 [RM19422-19424,19425a,b, 19588]

Cardita uruma: Hayami and Kase, 1993 [RM19521a,b,19521,19522,19523a, 19523,19524,19608]

Cardita sp. indet.: Hayami and Kase, 1993 [RM19525a,19525]

Carditella iejimensis: Hayami and Kase, 1993 [RM19526a-d,19526,19571]

Carditella shimojiensis: Hayami and Kase, 1993 [RM19527a-c, 19527,19528, 19609]

Chlamydella incubata: Hayami and Kase, 1993 [RM19465-19472,19473a-f, 19473,19474,19520,19600,19601]

Chlamydella tenuissima: Hayami and Kase, 1993 [RM19475-19482,19483a-c, 19483,19484,19602,19603]

Coralliophaga hyalina: Hayami and Kase, 1993 [RM19544a,19544-19548, 19549a,19549,19550,19611]

Cosa kinjoi: Hayami and Kase, 1993 [RM19404a,b,19404-19409,19568,19585, 19586]

Cosa uchimae: Hayami and Kase, 1993 [RM19410a,b,19410]

Cosa waikikia: Hayami and Kase, 1993 [RM19393a-d,19393,19394a-c,19394, 19395-19402,19583,19484]

Cosa sp. indet.: Hayami and Kase, 1993 [RM19413a,19413,19414]

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Cratis ohashii: Hayami and Kase, 1993 [RM19415,19416a-d,19416]

Crenella sp. indet.: Hayami and Kase, 1993 [RM19428a,19428,19429,19430a, 19430,19431,19590a,19590

Ctenoides minimus: Hayami and Kase, 1993 [RM19490-19494,19495a,b,19495, 19605a,19605,19606]

Cyclopecten ryukyuensis: Hayami and Kase, 1993 [RM1945619462,19463a-c, 19464a,19464,19570,19599]

Dacrydium zebra: Hayami and Kase, 1993 [RM19432a,19432-19434,19435a-c, 19435-19441,19591,19592]

Delectopecten randolphi: Hayami and Okamoto, 1986 [RM17681,18682,18687, 18688]

Divarilima elegans: Hayami and Kase, 1993 [RM19489a,b,19489]

Epicodakia pygmaea: Hayami and Kase, 1993 RM19513,19514a,19514-19518, 19519a,b,19519]

Geloina erosa: Isaji, 1993 [RM19106,19107,19109,19110]

Recent Bivalvia (continued)

Geloina expansa: Isaji, 1993 [RM19108]

Glossocardia obesa: Hayami and Kase, 1993 [RM19551a,19551,19552a,19552]

Halonympha asiatica: Hayami and Kase, 1993 [RM19566a,b,19566]

Hiatella sp. aff. *Hiatella orientalis*: Hayami and Kase, 1993 [RM19560-19564,19565a,b,19565]

Huxleyia cavernicola: Hayami and Kase, 1993 [RM19347-19349,19350a-c, 19350-19355,19574,19575a,19575]

Iris (Irus) sp. indet.: Hayami and Kase, 1993 [RM19553a,b,19553-19555, 19556a,19556]

Irus (Notirus) sp. indet.: Hayami and Kase, 1993 [RM19557,19558a-c, 19558,19559]

Isolimea limopsis: Hayami and Kase, 1993 [RM19498a,b,19498]

Kelliella japonica: Hayami and Kase, 1993 [RM19542a,19543a,b,19610]

Lima sp. indet.: Hayami and Kase, 1993 [RM19486,19487a,19487,19488a,19488]

Limaria sp. indet.: Hayami and Kase, 1993 [RM19508-19510,19511a,19511, 19512a,19512]

Limatula kinjoi: Hayami and Kase, 1993 [RM19499-19501,19502a,19502-19505, 19506a,b,19506,19507a,19507,19607]

Limopsoidea ? gen. and sp. indet.: Hayami and Kase, 1993 [RM19417,19418a, 19418b,19418-19421,19487]

Malleus (Malvufundus) sp. indet.: Hayami and Kase, 1993 [RM19450a,19450, 19504,19595,19596a,b,19596]

Parvamussium crypticum: Hayami and Kase, 1993 [RM19451a,b,19451,19569]

Parvamussium decoratum: Hayami and Kase, 1993 [RM19452-19455,19572a,b, 19572,19597,19598]

Patinopecten (Mizuhopecten) yessoensis: Hayami and Okamoto, 1986 [RM17680, 17683,17684,17686]

Patinopecten yessoensis: Hayami and Hosoda, 1988 [RM18119a,b,18119,18121]

Phacosoma japonicum: Tanabe, 1988 [RM18272,18580,18581], Tanabe and Oba, 1988 [RM18583-18587]

Placopecten magellanius: Hayami, 1991 [RM18815,18816]

Placuna ephippium: Hayami and Okamoto, 1986 [RM17678]

Pronucula insignis: Hayami and Kase, 1993 [RM19356,19357,19358a,b,19358, 19359a,b,19359,19360]

Propeamussium sibogai: Hayami, 1991 [RM18822]

Pycnodonte (Pycnodonte) taniguchii: Hayami and Kase, 1992 [RM18908-18913], Hayami and Kase, 1993 [RM19604]

Rochefortina sandwichensis: Hayami and Kase, 1993 [RM19533-19539,19540a-c, 19540,19541]

Recent Bivalvia (continued)

Salaputium unicum: Hayami and Kase, 1993 [RM19529,19530a,19530,19531, 19532a,b,19532]

Septifer sp. indet.: Hayami and Kase, 1993 [RM19426a,19426,19427a,19427, 19489]

Solemya (Petrasma) sp. indet.: Hayami and Kase, 1993 [RM19345a,19345, 19346,19573a,19573]

Urumella concava: Hayami and Kase, 1993 [RM19442-19447,19448a,b,19448, 19449,19593]

PALEOZOIC CEPHALOPODA

Adnatoceras ichinotaniensis: Niko and Hamada, 1987 [PM18068,18069]

Adnatoceras onimarense: Niko, 1990b [PM18785]

Adnatoceras (?) sp.: Niko, 1990b [PM18786,18788]

Adnatoceras sp.: Niko, 1989b [PM18788]

Aristoceras sp.: Tanabe, Landman, Mapes and Faulker, 1993 [PM18799, 19009,19010,19011,19012,19013]

Bitaunioceras undulatum: Niko and Nishida, 1987 [PM17973-17977]

Dolorthoceras (?) sp.: Niko, 1989b [PM18787], Niko, 1990b [PM18787]

Geisonocerella nakazatoensis: Niko, 1989c [PM18470,18471]

Kopaninoceras kobayashii: Niko, Hamada and Yasui, 1989 [PM18256]

Metarmenoceras kameii: Niko, 1990a [PM18474]

Metaspyroceras unsignis: Niko, 1993 [P,18491,18492,1888-18897]

Mechelinoceras yamakoshii: Niko, 1993 [PM18477,18478,18523,18860-18871]

Michelinoceras yoshikiense: Niko, 1993 [PM18475,18476,18872-18887]

Neocycloceras (?) sp.: Niko, 1989b [PM18784], Niko, 1990b [PM18784]

Ormoceras japonicum: Niko, 1990a [PM18472,18473]

Plagiostomoceras ? sp.: Niko, 1993 [PM18479,18480]

Plicatoceras nishidai: Niko, 1991 [PM18481]

Polygrammoceras sp.: Niko, 1993 [PM19640,19641]

Protokionoceras fessicancellatum: Niko, Hamada and Yasui, 1989 [PM18257]

Pseudorthceratid, gen. et sp. indet.: Niko and Nishida, 1987 [PM17978]

Vidrioceras sp.: Tanabe, Landman, Mapes and Faulkner, 1993 [PM18799, 19009,19013,19014]

MESOZOIC CEPHALOPODA

Ainoceras kamuy: Okamoto, 1988b [MM17972]

Mesozoic Cephalopoda (continued)

Anagaudryceras buddha: Shigeta, 1993 [MM18964]

Anagaudryceras limatum: Tanabe, 1989 [MM18324], Shigeta, 1993 [MM18965]

Anagaudryceras matsumotoi: Shigeta, 1993 [MM18969]

Anagaudryceras nanum: Shigeta, 1993 [MM18967]

Anagaudryceras tetragonum: Shigeta, 1993 [MM18968]

Anagaudryceras yokoyamai: Shigeta, 1993 [MM18966]

Anapachydiscus yezoensis: Shigeta, 1993 [MM18932]

Anapachydiscus sp.: Tanabe, 1989 [MM18327], Maeda, 1993 [MM18378]

Anisoceras haradanum: Yokoyama, 1890 [MM18299]

Anisoceras cf. *rugatum*: Yokoyama, 1890 [MM18301]

Anisoceras subquadratum: Yokoyama, 1890 [MM18298]

Anisoceras subundatum: Yokoyama, 1890 [MM18300]

Anisoceras sp.: Yokoyama, 1890 [MM18302]

*Bhimaites takahashii*Shigeta, 1993 [MM18939]

Calycoceras orientale: Shigeta, 1993 [MM18944]

Canadoceras kossmati: Shigeta, 1993 [MM18934]

Canadoceras mysticum: Shigeta, 1933 [MM18935]

Damesites ainuanus: Tanabe and Shigeta, 1987 [MM18203]

Damesites damesi: Tanabe and Shigeta, 1987 [MM18204], Shigeta, 1993 [MM18922]

Damesites hetonaiensis: Shigeta, 1993 [MM18923]

*Damesites semicostatus*Tanabe and Shigeta, 1987 [MM18205], Shigeta, 1993 [MM18921]

Damesites sugata: Tanabe and Shigeta, 1987 [MM18206], Shigeta, 1993 [MM18920]

Desmoceras ezoanum: Shigeta, 1993 [MM18918]

Desmoceras japonicum: Tanabe and Shigeta, 1987 [MM182011], Shigeta, 1993 [MM18917]

Desmoceras kossmati: Shigeta, 1993 [MM18916]

Desmoceras (Pseudouhligella) ezoanum: Maeda, 1993 [MM18373]

Desmoceras (Pseudouhligella) japonicum: Matsumoto, 1954a [MM6675], Maeda 1993 [MM6675, 18379]

Desmophyllites diphylloides: Tanabe and Shigeta, 1987 [MM18207], Shigeta, 1993 [MM18924]

Desmophyllites sp.: Tanabe, 1989 [MM18325,18326]

Diadochoceras nodosocostatiforme: Shigeta, 1993 [MM18951]

Mesozoic Cephalopoda (continued)

Eogaudryceras aff. *aurarium*: Shigeta, 1993 [MM18970]

Eogunnarites unicus: Wright and Matsumoto, 1954 [MM6590-6592,7457], Matsumoto, 1991 [MM6590-6592,7457], Shigeta, 1993 [MM18939]

Eomadrasites subnipponicus: Matsumoto, 1955a [MM6877,6878], Matsumoto, 1991 [MM6877,6878]

Eubostrychoceras japonicum: Yabe, 1904 [MM7559], Okamoto, 1989 [MM7559, 18524-18550,18572,18580,18581]

Eupachydiscus haradai: Shigeta, 1993 [MM18933]

Gabbioceras michelianum: Shigeta, 1993 [MM18958]

Gaudryceras denseplicatum: Tanabe and Shigeta, 1987 [MM18200], Tanabe, 1989 [MM18322], Shigeta, 1993 [MM18972]

Gaudryceras aff. *stefaninii*: Shigeta, 1993 [MM18971]

Gaudryceras striatum: Shigeta, 1993 [MM18974]

Gaudryceras tenuiliratum: Tanabe, 1989 [MM18323], Shigeta, 1993 [MM18973]

Gaudryceras tombetsense: Shigeta, 1993 [MM18975]

Gaudryceras sp.: Tanabe and Fukuda, 1983 [MM18219]

Harpoceras chrysanthemum: Tanabe, 1983 [MM18223]

Harpoceras sp.: Tanabe, 1983 [MM18224]

Hauericeras angustum: Shigeta, 1993 [MM18931]

Hauericeras (Gardeniceras) angustum: Maeda, 1993 [MM18377]

Hypacanthoplites subcornuerianus: Shigeta, 1993 [MM18950]

Hyphantoceras orientale: Okamoto, 1988a [MM17741]

Hypophylloceras hetonaiense: Shigeta, 1993 [MM18985]

Hypophylloceras subramosum: Tanabe and Shigeta, 1987 [MM18197], Tanabe, 1989 [MM18320], Shigeta, 1993 [MM18984,18990]

Hypophylloceras velledae: Shigeta, 1993 [NN18983]

Jimboiceras planulatiforme: Maeda, 1993 [MM18364]

Karsteniceras obatai: Shigeta, 1993 [MM18949]

Kitchinites ishikawai: Shigeta, 1993 [MM18928]

Kossmaticeras japonicum: Matsumoto, 1955a [MM6882,7627], Shikama, 1964 [MM7627[, Matsumoto, 1991 [MM6882,7627]

Kossmaticeras theobaldianum paucicostatum: Maeda, 1993 [MM18374]

Madagascarites ryu: Tanabe, Obata and Futakami, 1981 [MM18218]

Mantellioceras japonicum: Shigeta, 1993 [MM18943]

Marshallites compressus: Matsumoto, 1955a [MM6864a,b-6866], Matsumoto, 1991 [MM6864a,b-6866], Shigeta, 1993 [MM18940]

Mesozoic Cephalopoda (continued)

Marshallites compressus puzosioides: Matsumoto, 1955a [MM6868a-c], Matsumoto, 1991 [MM6867,6868a-c]

Marshallites hendersoni: Matsumoto, 1955a [MM6869], Matsumoto and Takahashi, 1991 [MM6869]

Marshallites olcostephanoides: Matsumoto, 1955a [MM6870-6872,6875], Matsumoto, 1991 [MM6870-6872,6875]

Mesopuzosia pacifica: Maeda, 1993 [MM18362,1836318371], Shigeta, 1993 [MM18926]

Mesopuzosia yubarensis: Maeda, 1993 [MM18375], Shigeta, 1993 [MM18927]

Metaplacenticeras subtilistriatum: Tanabe, 1989 [MM18328], Shigeta, 1993 [MM18942]

Microdesmoceras tetragonum: Shigeta, 1993 [MM18929]

Neopuzosia ishikawai: Tanabe and Shigeta, 1987 [MM18208]

Nipponites bacchus: Okamoto, 1989 [MM17667,18551,18560,18568,18570,18576, 18578]

Nipponites mirabilis: Yabe, 1904 [MM7560], Okamoto, 1988a [MM7560,17738], Okamoto, 1988c [MM7560,17738,18254], Okamoto, 1989 [MM7560,17738,18254, 18552,18554,18555,18562,18564,18569,18571,18573,18575,18579]

Nipponites mirabilis var. *sachalinensis*: Kawada, 1929 [MM7666], Okamoto, 1988c [MM7666], Okamoto, 1989 [MM7666]

Nipponites cfr. *mirabilis*: Okamoto, 1989 [MM18557,18567]

Nipponites sp.: Okamoto, 1988c [MM18255], Okamoto, 1989 [MM7668,18255, 18553,18556,18558,18559,18561,18563,18565,18566,18574,18577]

Otoscaphites klamathensis: Shigeta, 1993 [MM18956]

Otoscaphites matsumotoi: Shigeta, 1993 [MM18957]

Otoscaphites puerculus: Shigeta, 1993 [MM18955]

Pachydiscus naumanni: Yokoyama, 1890 [MM7501], Matsumoto, 1954a [MM7501], Matsumoto, Hayami and Asano, 1963 (continued) [MM7501]

Parajaubertella kawakitana: Shigeta, 1993 [MM18959]

Partschiceras japonicum: Shigeta, 1993 [MM18982]

Phyllopachyceras ezoense: Tanabe, 1989 [MM18321], Shigeta, 1993 [MM18986]

Placenticeras intercalare: Tanabe and Shigeta, 1987 [MM18214]

Polyptychoceras haradanum: Yokoyama, 1890 [MM18299], Matsumoto, Hayami and Asano, 1963 [MM18299]

Polyptychoceras pseudogaultinum: Yokoyama, 1890 [MM18295-18297], Matsumoto, Hayami and Asano, 1963 [MM18295-18297]

Polyptychoceras subquadratum: Yokoyama, 1890 [MM18298], Matsumoto, Hayami and Asano, 1963 [MM18298]

Mesozoic Cephalopoda (continued)

Polyptychoceras subndatum: Yokoyama, 1890 [MM18300], Matsumoto, Hayami and Asano, 1963 [MM18300]

Polyptychoceras (?) sp.: Yokoyama, 1890 [MM18302], Matsumoto, Hayami and Asano, 1963 [MM18302]

Protexanites minimus: Shigeta, 1993 [MM18947]

Protogrammoceras nipponicum: Tanabe, 1983 [MM18220], Shigeta, 1993 [MM18938]

Pseudophyllites indra: Shigeta, 1992 [MM18991-19008], Shigeta, 1993 [MM18980]

Ptychoceras pseudo-gaultinum: Yokoyama, 1890 [MM18295-18297]

Puzosia orientalis: Shigeta, 1993 [MM18925]

Reesidites minimus: Tanabe and Fukuda, 1987 [MM18262,18264,18268,18270], Tanabe and Shigeta, 1987 [MM18211]

Ryugasella ryugasensis (?): Yokoyama, 1890 [MM18301], Matsumoto, Hayami and Asano, 1963 [MM18301]

Saghalinites teshioensis: Shigeta, 1993 [MM18981]

Scalarites mihoensis: Tanabe, Obata and Futakami, 1981 [MM18216]

Scalarites scalaris: Tanabe, Obata and Futakami, 1981 [MM18215], Okamoto, 1988a [MM17739,17740]

Scalarites (?) aff. *S. scalaris*Tanabe, Obata and Futakami, 1981 [MM18217]

Scalarites sp.: Okamoto, 1989 [MM18255,18543]

Scaphites planus: Dhigeta, 1993 [MM18952]

Scaphites pseudoaequalis: Tanabe, 1989 [MM18329], Shigeta, 1993 [MM18954]

Scaphites yonekurai: Shigeta, 1993 [MM18953]

Subprionocyclus cf. *bakeri*: Tanabe, 1993 [MM18808-1-13]

Subprionocyclus bravaisianus: Tanabe and Shigeta, 1987 [MM18209], Tanabe, 1993 [MM18209]

Subprionocyclus minimus: Shigeta, 1993 [MM18946]

Subprionocyclus neptuni: Tanabe and Shigeta, 1987 [MM18210], Shigeta, 1993 [MM18945], tanabe, 1993 [MM18809-1-52,18810-1-16,18811-1-3,18812-1-6,18813-1-14,18814-1-96]

Teshioites sp.: Shigeta, 1993 [MM18936]

Tetragonites glabrus: Tanabe and Shigeta, 1987 [MM18198], Shigeta, 1989 [MM18638,18640,18641,18643,18645-18654,18656-18658,18660-18666,18668-18670,18672-18677,18679,18680], Shigeta,1993 [MM18977,18987,18988]

Tetragonites aff. *kitchini*: Shigeta, 1993 [MM18976]

Tetragonites minimus: Shigeta, 1989 [MM18639,18642,18644,18655,18659, 18667,18671,18678,18681,18682], Shigeta, 1993 [MM18979]

Mesozoic Cephalopoda (continued)

Tetragonites popetensis: Tanabe and Shigeta, 1987 [MM18199], Shigeta, 1993 [MM18978]

Tetragonites terminus: Shigeta, 1989 [MM18635-18637]

Texanites kawasakii: Shigeta, 1993 [MM18948]

Tragodesmoceroides subcostatus: Tanabe and Shigeta, 1987 [MM18202], Shigeta, 1993 [MM18919,18989]

Valdedorsella akuschaensis: Shigeta, 1993 [MM18937]

Yokoyamaoceras ishikawai: Jimbo, 1894 [MM7507], Matsumoto, 1954b [MM6624, 6625-6644, 7507,7697,7698,7700,19137], Matsumoto, 1955a [MM6883,7623a,b, 7624a,b,7625a,b,7626], Matsumoto, 1963 [MM7507], Matsumoto, 1981c [MM7507], Maeda, 1993 [MM18330-18353,18357-18361,18365-18370,18372, 18376,18380-18399]

Yokoyamaoceras jimboi: Matsumoto, 1955a [MM6883,7625a], Matsumoto, 1991 [MM6883,7625a], Shigeta, 1993 [MM18941]

Yokoyamaoceras kotoi: Jimbo, 1894 [MM5717], Matsumoto, 1955a [MM7517], Matsumoto, 1963 [MM7517], Matsumoto, 1981d [MM7517], Matsumoto, 1991 [MM7517], Shikama, 1943 [MM7517], Shikama, 1952 [MM7517], Shikama, 1964 [MM7517], Maeda, 1993 [MM18354-18356]

Yubariceras japonicum: Tanabe and Shigeta, 1987 [MM18213]

Yubariceras yubarense: Tanabe and Shigeta, 1987 [MM18212]

Zelandites inflatus: Shigeta, 1993 [MM18960]

Zelandites kawanoi: Shigeta, 1993 [MM18962]

Zelandites mihoensis: Shigeta, 1993 [MM18961]

Zelandites varuna: Shigeta, 1993 [MM18963]

CENOZOIC CEPHALOPODA

Deltoidonautilus okinoshimensis: Tanabe and Chibe, 1983 [CM18225,18226, 18245,18246]

RECENT CEPHALOPODA

Nautilus belauensis: Tanabe, Tsukahara and Hayasaka, 1990 [RM18708]

Nautilus pompilius: Tanabe, Shinomiya and Fukuda, 1988 [RM18802-18807], Tanabe, Tsukahara and Hayasaka, 1990 [RM18705-18707]

Spirula spirula: Tanabe, 1989 [RM18579,18582]

ARTHROPODA

PALEOZOIC TRILOBITA

Bumastus glomerosus: Kobayashi and Hamada, 1987a [PA18089]

Cerauroides orientalis: Kobayashi and Hamada, 1987a [PA18090]

Cheirunid, gen. et sp. indet.: Kobayashi and Hamada, 1987b [PA18102]

Cheirurus hitoeganensis: Kobayashi and Hamada, 1987b [PA18101]

Dicranopeltis tricornis: Kobayashi and Hamada, 1987a [PA18092]

Encrinurus fimbriatus: Kobayashi and Hamada, 1987b [PA18104-18110]

Encrinurus cf. *kitakamiensis*: Kobayashi and Hamada, 1987b [PA18111]

Encrinurus cf. *similis*: Kobayashi and Hamada, 1987b [PA18112]

Encrinurus subtrigonalis: Kobayashi and Hamada, 1987a [PA18091]

Illaenid (?) gen. et sp. indet.: Kobayashi and Hamada, 1987b [PA18113]

Japonosucutellum tumidum: Kobayashi and Hamada, 1987a [PA18088]

Kosovopeltis hidensis: Kobayashi and Hamada, 1987b [PA18095,18096m18115]

Kosovopeltis hidensis forma *striatum*: Kobayashi and Hamada, 1987b [PA18097]

Metaleiolichas tuberculatus: Kobayashi and Hamada, 1987a [PA18093]

Paladin hidensis: Kobayashi and Hamada, 1987c [PA18303-18307]

Paraleiolichas globulus: Kobayashi and Hamada, 1987a [PA18094]

Proetus (Coniproetus ?) subconicus: Kobayashi and Hamada, 1987b [PA18099]

Proetus (Coniproetus) tenuiceps: Kobayashi and Hamada, 1987b [PA18098, 18100]

Sphaerexochus sp. indet.: Kobayashi and Hamada, 1987b [PA18103]

Trilobita, gen. et sp. indet.: Kobayashi and Hamada, 1987b [PA18114]

CENOZOIC CRUSTACEA

Abrocythereis ryukyuensis: Malz and Tabuki, 1988 [CA18143-18180]

Abrocythereis sp.: Malz and Tabuki, 1988 [CA18184]

Acanthocythereis ? munechikai: Yajima, 1988 [CA17719]

Aglaiocypris ? nipponica: Yajima, 1987 [CA17986]

Ambostracon ikeyai: Yajima, 1988 [CA17718], Yajima, 1992b [CA19101]

Anchistrocheles hondai: Yajima, 1987 [CA17981]

Anchistrocheles yamaguchii: Yajima, 1987 [CA17982,17983]

Aurila kiritsubo: Yajima, 1982 [CA9863,9864], Yajima and Lord, 1990 [CA 9863,9864]

Aurila okamurai: Yajima, 1992b [CA19098,19099]

Cenozoic Crustacea (continued)

Aurila sp.: Yajima, 1988 [CA17703]

Australimoosella hanaii: Yajima, 1992b [CA19096,19097]

Bairdoppilata itoigawai: Yajima, 1992b [CA19080,19081]

Bicornucythere bisanensis: Yajima and Lord, 1990 [CA18600]

Bradleya sp.: Yajima, 1988 [CA17720]

Bythoceratina angulata: Yajima, 1987 [CA17996,17997]

Bythocythere alata: Yajima, 1987 [CA17992,17993]

Bythocythere ishizakii: Yajima, 1987 [CA17994,17995]

Bythocythere sp.: Yajima, 1992b [CA19102]

Callistocythere sp.: Yajima, 1988 [CA17693]

Cletocythereis rastromarginata: Yajima, 1988 [CA17707]

Cobanocythere ? pulchra: Yajima, 1987 [CA18009,18010]

Coquimba ishizakii: Yajima, 1987 [CA17988,17989]

Coquimba poga: Yajima, 1987 [CA17990 (missing),17991]

Cornucoquimba moniwensis: Yajima, 1988 [CA17690], Yajima, 1992b [CA19100]

Cornucoquimba saitoi: Yajima, 1988 [CA17717]

Cytheromorpha acupinctata: Yajima and Lord, 1990 [CA18605,18606]

Cytheropteron miurense: Yajima and Lord, 1990 [CA18602]

Cytheropteron subuchioi: Yajima and Lord, 1990 [CA18603]

Falsobuntonia taiwanica: Yajima, 1988 [CA17691]

Finmarchinella hanaii: Yajima, 1988 [CA17714,17715]

Finmarchinella japonica: Yajima, 1988 [CA17709,17710]

Finmarchinella (F.) uranipponica: Yajima, 1982 [CA9859,9860], Yajima and Lord, 1990 [CA9859,9860]

Hanaiborchella miurensis: Yajoma, 1992b [CA19085]

Hanaicythere nipponica: Yajima, 1987 [CA18011,18012]

Hemicythere ? sp.: Yajima, 1988 [CA17711]

Hemicytherura cuneata: Yajima, 1988 [CA17702,17712], Yajima and Lord,1990 [CA18613,18614]

Hemicytherura tricarinata: Yajima and Lord, 1990 [CA18608]

Hirsutocythere ? akatsukiborensis: Yajima, 1992b [CA17694,17695,19095]

Hirsutocythere ? nozokiensis: Yajima, 1988 [CA17721]

Hirsutocythere ? sp.: Yajima, 1988 [CA17694,17695]

Howeina camptocytheroides: Yajima and Lord, 1990 [CA18604]

Cenozoic Crustacea (continued)

Howeina higashimeyaensis: Yajima and Lord, 1990 [CA18601]

Kangarina yamaguchii: Yajima, 1992b [CA19103-19105]

Kangarina sp.: Yajima, 1988 [CA17701]

Loxoconcha hanachirusato: Yajima, 1982 [CA9896,9898], Yajima and Lord, 1990 [CA9896,9898]

Loxoconcha optima: Yajima, 1982 [CA9901,9902], Yajima and Lord, 1990 [CA 9901,9902]

Loxoconcha pulchra: Yajima, 1988 [CA17737]

Loxoconcha sp.: Yajima, 1988 [CA17700]

Loxocorniculum sp.: Yajima, 1988 [CA17699]

Munseyella sp.: Yajima, 1988 [CA17716], Yajima, 1992b [CA19083,19084]

Neocytherideis sp.: Yajima, 1992b [CA19082]

Neomonoceratina micrireticulata: Yajima, 1982 [CA9835,9837], Yajima and Lord, 1990 [CA9835,9837]

Neomonoceratina wendongensis: Yajima, 1992b [CA19086]

Neonesidea hanaii: Yajima, 1987 [CA17979,17980]

Neonesidea sp.: Yajima, 1988 [CA17705]

Nipponocythere bicarinata: Yajima, 1988 [CA9909,9911], Yajima and Lord, 1990 [CA9909,9911]

Palmenella limicola: Yajima, 1988 [CA17713]

Paracypris ? sp.: Yajima, 1987 [CA17984,17985]

Paracytherides bosoensis: Yajima, 1978 [CA8415], Yajima and Lord, 1990 [CA8415]

Paracytherides sp.: Yajima, 1987 [CA18004]

Paradoxostoma setosum: Yajima, 1987 [CA18005]

Paradoxostoma sp.: Yajima, 1987 [CA18006]

Pontocythere subjaponica: Yajima, 1988 [CA17692], Yajima and Lord, 1990 [CA18611,18612]

Pseudocythere sp. 1: Yajima, 1987 [CA17998,17999]

Pseudocythere sp. 2: Yajima, 1987 [CA18000]

Robertsonites reticuliforma: Yajima, 1982 [CA9852], Yajima and Lord, 1990 [CA9852]

Schizocythere kishinouyei: Yajima, 1988 [CA17698], Yajima and Lord, 1990 [CA18609,18610]

Sclerochilus sp.: Yajima, 1987 [CA18008]

Semicytherura henryhowei: Yajima, 1988 [CA17697]

Cenozoic Crustacea (continued)

Semicytherura miurensis: Yajima, 1988 [CA17696]

Semicytherura sp. 1: Yajima, 1987 [CA18001,18002]

Semicytherura sp. 2: Yajima, 1987 [CA18003]

Spinileberis quadriaculeata: Yajima, 1988 [CA17704], Yajima and Lord, 1990 [CA18607]

Spinileberis sp.: Yajima, 1992b [CA17704]

Spinileberis ? sp.: Yajima, 1988 [CA17706]

Trachyleberis mizunamiensis: Yajima, 1992b [CA19087-19090]

Trachyleberis shukunohorensis: Yajima, 1992b [CA19091-19094]

Trachyleberis sp.: Yajima, 1988 [CA17708]

Trachyleberis sp. 1: Yajima, 1988 [CA17734]

Trachyleberis sp. 2: Yajima, 1988 [CA17735,17736]

Xiphichilus sp.: Yajima, 1987 [CA18008]

RECENT CRUSTACEA

Abrocythereis sp.: Malz and Tabuki, 1988 [RA18181-18183]

Cythere japonica: Tsukagoshi and Ikeya, 1991 [RA18823-18838]

Cythere schornikovi: Tsukagoshi, 1990 [RA18621-18624,18626-18630]

Cythere uranipponica: Tsukagoshi, 1990 [RA18615-18620,18625], Tsukagoshi and Ikeya, 1991 [RA18839]

Eochionelasmus ohtai: Yamaguchi and Newman, 1990 [RA18631-18634]

Loxoconcha japonica: Kamiya, 1988 [RA18132-18139]

Loxoconcha uranouchiensis: Kamiya, 1988 [RA18124-18131]

Trachyleberis scabrocuneata: Yajima, 1992a [RA18901-18907]

ECHINODERMATA

CENOZOIC CRINOIDEA

Isocrinus sp.: Oji, 1990a [CE18692-18699]

Isselicrinus sp.: Oji, 1990a [CE18700,18701 (missing),18702-18704]

Teliocrinus springeri: Oji, 1990a [CE18691]

RECENT CRINOIDEA

Asterometra macropoda: Oji, 1991 [RE18849-18859]

Recent Crinoidea (continued)

Comanthus pinguis: Oji, 1990b [RE18841]

Endoxocrinus alternicirrus: Oji, 1989 [RE18595,18596], Oji, 1991 [RE18595, 18596]

Heliometra glacilis maxima: Oji, 1990b [RE18842]

Hypalocrinus naresianus: Oji, 1989 [RE18597,18598], Oji, 1991 [RE18597, 18598]

Metacrinus costatus: Oji, 1990b [RE18840]

Metacrinus interruptus: Oji, 1989 [RE18590,18591], Oji, 1991 [RE18844-18848]

Metacrinus rotundus: Oji, 1989 [RE18588,18589], Oji, 1991 [RE18843]

Metacrinus serratus: Oji, 1989 [RE18593]

Metacrinus wyvillii: Oji, 1989 [RE18592], Oji, 1991 [RE18592]

Phrynocribus nudus: Oji, 1989 [RE18599], Oji, 1991 [RE18599]

Saracrinus nobilis: Oji, 1989 [RE18594], Oji, 1991 [RE18594]

CENOZOIC ECHINOIDEA

Linthia nipponica: Mizuno, 1989 [CE18683-18690]