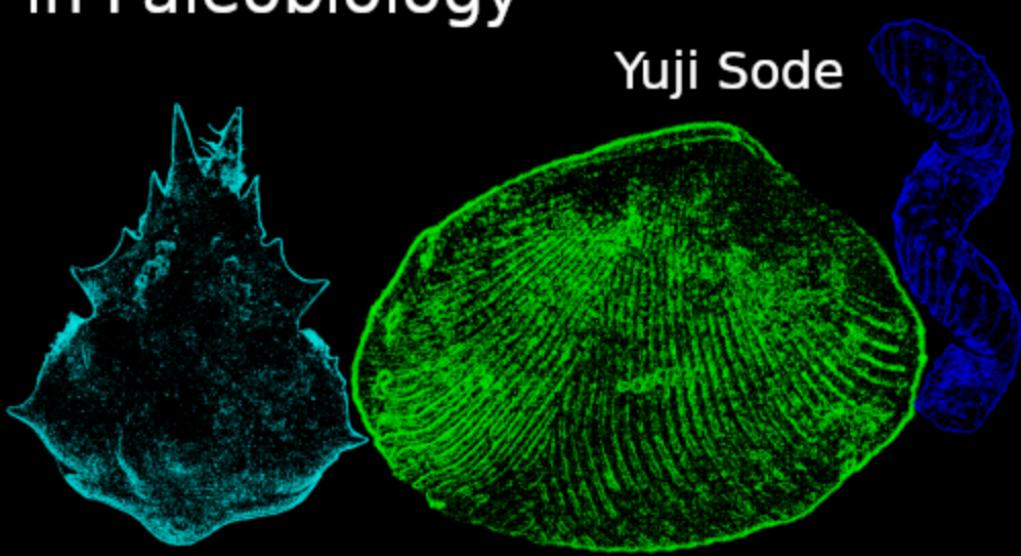


古生物形態標本資料集

Morphological collection in Paleobiology

Yuji Sode





01 Introduction

- 02 Phylum Mollusca Class Gastropoda 軟体動物…
- 03 Phylum Mollusca Class Bivalvia 軟体動物門…
- 04 Phylum Mollusca Class Cephalopoda 軟体動物…
- 05 Phylum Mollusca Class Cephalopoda 2 軟体…
- 06 Phylum Mollusca Class Polyplacophora 軟…
- 07 Phylum Arthropoda Class Malacostraca 節…
- 08 Phylum Chordata Subphylum Vertebrata 脊…
- 09 Contour Diagrams 1 輪郭図 1
- 10 Contour Diagrams 2 輪郭図 2
- 11 Contour Diagrams 2-2 輪郭図 2-2
- 12 Contour Diagrams 3 輪郭図 3

Introduction

YujiSode
2024.08.18に更新

このチャプターの目次

"古生物形態標本資料集"

本書の目的は生物の形態標本を利用・複製・変更・再配布可能な状態の画像で記録する事です。
およそ46億年の地球史の過程で生物は多様な形態を得てきました。
生物の形態の多様性はアイディアのヒントとなると思います。
本書の標本写真や図は生物学的な教育目的や研究目的だけでなく、その他の用途にも利用可能です(例えば
画像解析、デザイン、アート、etc.)。

主な読者としては以下を想定しています:

1. 学術的に形態情報を集めている人
2. アイディアのために生物の形を参考したい人
3. 貝類や化石の写真が好きな人

"Morphological collection in Paleobiology"

The purpose of this book is to document morphological specimens of living organisms in images that can be used, copied, modified, and redistributed.
Over 4.6 billion-year history of the Earth, lives have varied in forms.
The morphological biodiversity can be a source of ideas.
The photographs and diagrams in this book can be used for biological education, research, and other purposes (e.g., image analysis, design, art, etc.).

This book was written assuming following readers:

1. those who are collecting morphological information for academic study.
2. those who need various biological form samples to create ideas.
3. those who like to see pictures of shells or fossils.

本書の形態学的コレクションが研究や学習だけでなく創作活動の助けになる事を願います。
この科学コレクションは愛媛大学における研究及び学習の過程(2007-2018)で収集されたものです。

I hope morphological collection in this book helps not only studies but also creative activities.
This scientific collection has been collected while studying at Ehime University (2007-2018).

Yuji Sode

以下のリポジトリより本書の標本写真や図をダウンロード出来ます:
The photographs and diagrams in this book are available at following repository:

YujiSODE / YSCollection07_18

This scientific collection was made by Yuji Sode. The collection has been collected while his studying at ...

☆ 2

Morphological collection in Paleobiology
Copyright (c) 2022 Yuji Sode



This work is licensed under a [Creative Commons Attribution 4.0 International License](#).

Change log

- Released: [3.0.1] - 2024-08-17
- Released: [3.0.0] - 2024-02-04
- Released: [2.0.0] - 2023-03-29
- Released: [1.0.0] - 2022-10-06

NEXT

[Phylum Mollusca Class
Gastropoda 軟体動物門 腹足綱](#)



01 Introduction

- [02 Phylum Mollusca Class Gastropoda 軟体…](#)
- [03 Phylum Mollusca Class Bivalvia 牡法動物門…](#)
- [04 Phylum Mollusca Class Cephalopoda 軟体動…](#)
- [05 Phylum Mollusca Class Cephalopoda 軟体…](#)
- [06 Phylum Mollusca Class Polyplacophora 軟…](#)
- [07 Phylum Arthropoda Class Malacostraca 節…](#)
- [08 Phylum Chordata Subphylum Vertebrata 骨…](#)
- [09 Contour Diagrams 1 線形圖 1](#)
- [10 Contour Diagrams 2 線形圖 2](#)
- [11 Contour Diagrams 2-2 線形圖 2-2](#)
- [12 Contour Diagrams 3 線形圖 3](#)

このチャプターの目次

Phylum Mollusca 軟体動物門

Class Gastropoda 腹足綱

Order Cephalaspidea 頭楯目

Genus *Avellana**Avellana* sp.

Figure mgs-1.



Figure mgs-2.



Figure mgs-3.

Order Littorinimorpha タマキビ型新生腹足目

Genus *Serpulorbis**Serpulorbis imbricatus*

Figure mgs-4.



Figure mgs-5.



Figure mgs-6.



Figure mgs-7.

Body of *Serpulorbis imbricatus*

Figure mgs-8.



Figure mgs-9.

Genus *Tonna**Tonna cf. luteostoma*

Figure mgs-10.



Figure mgs-11.



このチャプターの目次

Phylum Mollusca 軟体動物門

Class Bivalvia 二枚貝綱

Subclass Protobranchia 原鰓亞綱

Genus *Acila**Acila* aff. *holkайденсіус*

Figure mbv-1.

Subclass Palaeoheterodontia 古異齒亞綱

Genus *Apiotrigonia**Apiotrigonia* sp.

Figure mbv-2.



Figure mbv-3.



Figure mbv-4.

Subclass Pteriomorphia 翼型亞綱

Genus *Inoceramus**Inoceramus elegans*

Figure mbv-5.

Inoceramus ezoensis

Figure mbv-6.

Inoceramus naumannii

Figure mbv-7.



Figure mbv-8.



Figure mbv-9.

Inoceramus aff. orientalis orientalis

Figure mbv-10.

Genus *Nanonavis*aff. *Nanonavis* sp.

Figure mbv-11.

Tetragonites glaber and *Nanonavis sachalinensis*

Figure mbv-12.



Figure mbv-13.



Figure mbv-14.

PREV

Phylum Mollusca Class

Gastropoda 軟体動物門 腹足綱

NEXT

Phylum Mollusca Class

Cephalopoda 軟体動物門 頭...

- 02 Phylum Mollusca Class Gastropoda 軟体動物門…
- 03 Phylum Mollusca Class Bivalvia 細足動物門…
- 04 Phylum Mollusca Class Cephalopoda 軟体…**
- 05 Phylum Mollusca Class Cephalopoda 2 軟体…
- 06 Phylum Mollusca Class Polyplacophora 鈎…
- 07 Phylum Arthropoda Class Malacostraca 鰐…
- 08 Phylum Chordata Subphylum Vertebrata 魚…
- 09 Contour Diagrams 1 線形圖 1
- 10 Contour Diagrams 2 線形圖 2
- 11 Contour Diagrams 2-2 NWIG 2-2
- 12 Contour Diagrams 3 線形圖 3

Phylum Mollusca Class Cephalopoda 軟体動物門 頭足綱

Fujisode 2022.10.06に更新

このチャプターの目次

Phylum Mollusca 軟体動物門**Class Cephalopoda 頭足綱****Subclass Ammonoidea アンモナイト亜綱**Genus *Baculites**Baculites tanakae*

Figure mcp-1.

Baculites aff. tanakae

Figure mcp-2.



Figure mcp-3.

Baculites aff. uedaе

Figure mcp-4.

Baculites aff. uedaе in fecal pellets

Figure mcp-5.

Genus *Damesites**Damesites sugata*

Figure mcp-6.



Figure mcp-7.

Damesites damesi damesi

Figure mcp-8.

Damesites aff. damesi damesi

Figure mcp-9.

Damesites damesi intermedius

Figure mcp-10.

Genus *Eupachydiscus**Eupachydiscus aff. haradai*

Figure mcp-11.



Figure mcp-12.

Genus *Hauericeras**Hauericeras angustum*

Figure mcp-13.



Figure mcp-14.

PREV

Phylum Mollusca Class

Bivalvia 軟体動物門 二枚貝綱

NEXT

Phylum Mollusca Class

Cephalopoda 2 軟体動物門 …

このチャプターの目次

Phylum Mollusca 軟体動物門

Class Cephalopoda 頭足綱

Subclass Ammonoidea アンモナイト亜綱

Genus *Heterptychoceras**Heterptychoceras obotai*

Figure mcp-15.

Genus *Hyphantoceras**Hyphantoceras orientale*

Figure mcp-16.



Figure mcp-17.

Genus *Neophylioceras**Neophylioceras ramosum*

Figure mcp-18.

Neophylioceras aff. ramosum



Figure mcp-19.

Genus *Polyptychoceras**Polyptychoceras pseudogaulithinum*

Figure mcp-20.

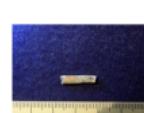


Figure mcp-21.



Figure mcp-22.

Genus *Tetragonites**Tetragonites glabrus*

Figure mcp-23.

Tetragonites glabrus and *Nanonavis sachalinensis*

Figure mcp-24.



Figure mcp-25.



Figure mcp-26.



Figure mcp-27.

Genus *Zelandites**Zelandites sp.*

Figure mcp-28.

Aptychi 脊器

Aptychus

Figure mcp-29.



Figure mcp-30.

PREV

Phylum Mollusca Class Cephalopoda 軟体動物門 頭足綱

NEXT

Phylum Mollusca Class Polyplacophora 軟体動物門



Phylum Mollusca Class Polyplacophora 軟體動物門 多板綱

Yujisode
2022.08.20に更新

01 Introduction

02 Phylum Mollusca Class Gastropoda 軟體動物門

03 Phylum Mollusca Class Bivalvia 軟體動物門

04 Phylum Mollusca Class Cephalopoda 軟體動物門

05 Phylum Mollusca Class Cephalopoda 2 軟體動物門

06 Phylum Mollusca Class Polyplacophora 軟體動物門

07 Phylum Arthropoda Class Malacostraca 節足動物門

08 Phylum Chordata Subphylum Vertebrata 脊索動物門

09 Contour Diagrams 1 輪郭図 1

10 Contour Diagrams 2 輪郭図 2

11 Contour Diagrams 2-2 輪郭図 2-2

12 Contour Diagrams 3 輪郭図 3

このチャプターの目次



Phylum Mollusca 軟體動物門

Class Polyplacophora 多板綱

Genus *Acanthopleura*

Acanthopleura japonica



Figure mpl-1.



Figure mpl-2.



Figure mpl-3.

Plates of *Acanthopleura japonica*



Figure mpl-4.



Figure mpl-5.



Figure mpl-6.

PREV

← Phylum Mollusca Class Cephalopoda 2 軟體動物門

NEXT

→ Phylum Arthropoda Class Malacostraca 節足動物門



Phylum Arthropoda Class Malacostraca 節足動物門 軟甲綱

YojiSode
2022.08.28に更新

- 01 Introduction
- 02 Phylum Mollusca Class Gastropoda 軟体動物門
- 03 Phylum Mollusca Class Bivalvia 軟体動物門
- 04 Phylum Mollusca Class Cephalopoda 軟体動物門
- 05 Phylum Mollusca Class Cephalopoda 2 軟体動物門
- 06 Phylum Mollusca Class Polyplacophora 軟体動物門
- 07 Phylum Arthropoda Class Malacostraca 節足動物門
- 08 Phylum Chordata Subphylum Vertebrata 脊索動物門
- 09 Contour Diagrams 1 輪郭図 1
- 10 Contour Diagrams 2 輪郭図 2
- 11 Contour Diagrams 2-2 輪郭図 2-2
- 12 Contour Diagrams 3 輪郭図 3

このチャプターの目次

Phylum Arthropoda 節足動物門

Subphylum Crustacea 甲殻亜門

Class Malacostraca 軟甲綱

Genus Linuparus

Linuparus sp.



Figure am1-1.



Figure mpl-2.



Figure mpl-3.



Figure mpl-4.



Figure am1-5.

Superfamily Majoidea

Superfamily Majoidea gen. et sp. indet.

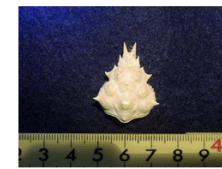


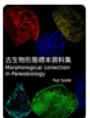
Figure am1-6.

PREV

← Phylum Mollusca Class
Polyplacophora 軟体動物門

NEXT

→ Phylum Chordata
Subphylum Vertebrata 脊索動物門

[01 Introduction](#)[02 Phylum Mollusca Class Gastropoda 軟体動物門](#)[03 Phylum Mollusca Class Bivalvia 軟体動物門](#)[04 Phylum Mollusca Class Cephalopoda 軟体動物門](#)[05 Phylum Mollusca Class Cephalopoda 2 軟体動物門](#)[06 Phylum Mollusca Class Polyplacophora 軟体動物門](#)[07 Phylum Arthropoda Class Malacostraca 節足動物門](#)[08 Phylum Chordata Subphylum Vertebrata 脊索動物門](#)[09 Contour Diagrams 1 輪郭図 1](#)[10 Contour Diagrams 2 輪郭図 2](#)[11 Contour Diagrams 2-2 輪郭図 2-2](#)[12 Contour Diagrams 3 輪郭図 3](#)

Phylum Chordata Subphylum Vertebrata 脊索動物門 脊椎動物亞門



このチャプターの目次

Phylum Chordata 脊索動物門

Subphylum Vertebrata 脊椎動物亞門

Vertebrae

Vertebrae gen. et sp. indet.



Figure cvr-1.

PREV

← Phylum Arthropoda Class
Malacostraca 節足動物門 軟...

NEXT

Contour Diagrams 1 輪郭図 1 →

Contour Diagrams 1 輪郭図 1

YûSode
2022.08.26に更新

このチャプターの目次

Contour Diagrams (gastropods and bivalves) 輪郭図 (腹足類と二枚貝類)

輪郭図は本書の標本画像に輪郭抽出を適用した結果に基づいて作成した図です。

These contour diagrams based on each result of contour extraction from sample image in this book.

Gastropoda 腹足綱

Genus *Aevelana**Aevelana* sp.

Figure cdg1-2. Diagram of contours



Figure cdg1-2. Diagram of contours and black (#0000) / background.

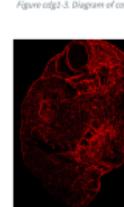
Genus *Serpulorbis**Serpulorbis imbricatus*

Figure cdg1-3. Diagram of contours

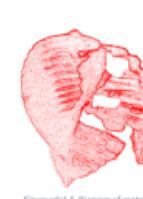


Figure cdg1-4. Diagram of contours and black (#0000) / background.

Genus *Tonna**Tonna* cf. *lateostoma*

Figure cdg1-5. Diagram of contours

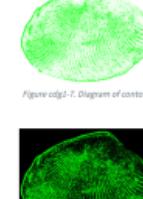


Figure cdg1-6. Diagram of contours and black (#0000) / background.

Class Bivalvia 二枚貝綱

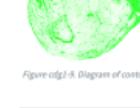
Genus *Acila**Acila* aff. *hokkaidensis*

Figure cdg1-7. Diagram of contours

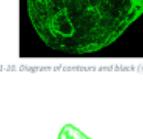


Figure cdg1-8. Diagram of contours and black (#0000) / background.

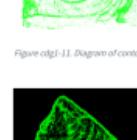
Genus *Inoceramus**Inoceramus* *aztecensis*

Figure cdg1-9. Diagram of contours

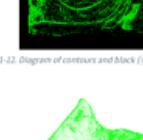


Figure cdg1-10. Diagram of contours and black (#0000) / background.

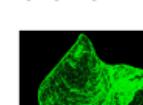
Inoceramus *aztecensis**Inoceramus* *aztecensis*

Figure cdg1-11. Diagram of contours

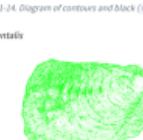


Figure cdg1-12. Diagram of contours and black (#0000) / background.

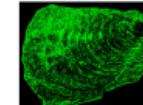
Inoceramus *aff. orientalis* *orientalis**Inoceramus* *aff. orientalis* *orientalis*

Figure cdg1-13. Diagram of contours



Figure cdg1-14. Diagram of contours and black (#0000) / background.

PREV

Phylum Chordata

Subphylum Vertebrata

NEXT

Contour Diagrams 2 輪郭図 2

Contour Diagrams 2 輪郭図 2

TopSode
2024.08.01に更新

このチャプターの目次

Contour Diagrams (cephalopods and polyplacophorans)
輪郭図 (頭足類と多板類)輪郭図は本書の標本画像に輪郭抽出を適用した結果に基づいて作成した図です。
These contour diagrams based on each result of contour extraction from sample image in this book.

Class Cephalopoda 頭足綱

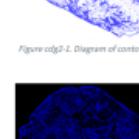
Genus *Baculites*
Baculites aff. undae

Figure cdg2-1. Diagram of contours

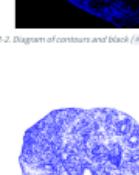


Figure cdg2-2. Diagram of contours and black (#0000) background.

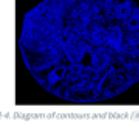
Genus *Damesites**Damesites aff. damei damesi*

Figure cdg2-3. Diagram of contours

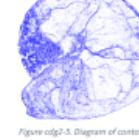


Figure cdg2-4. Diagram of contours and black (#0000) background.

Damesites *sugata*

Figure cdg2-5. Diagram of contours

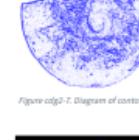


Figure cdg2-6. Diagram of contours and black (#0000) background.

Genus *Eupachydiscus**Eupachydiscus aff. haradae*

Figure cdg2-7. Diagram of contours

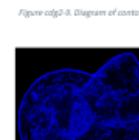


Figure cdg2-8. Diagram of contours and black (#0000) background.



Figure cdg2-9. Diagram of contours

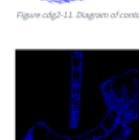


Figure cdg2-10. Diagram of contours and black (#0000) background.

Genus *Heterptychoceras**Heterptychoceras obulata*

Figure cdg2-11. Diagram of contours



Figure cdg2-12. Diagram of contours and black (#0000) background.

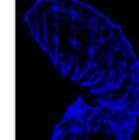
Genus *Hyphantoceras**Hyphantoceras orientale*

Figure cdg2-13. Diagram of contours

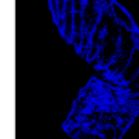


Figure cdg2-14. Diagram of contours and black (#0000) background.

このチャプターの目次

Contour Diagrams (cephalopods and polyplacophorans)
輪郭図(頭足類と多板類)輪郭図は本書の標本画像に輪郭抽出を適用した結果に基づいて作成した図です。
These contour diagrams based on each result of contour extraction from sample image in this book.

Class Cephalopoda 頭足綱

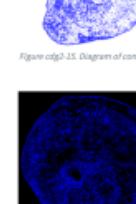
Genus *Neophytoceras**Neophytoceras aff. ramosum*

Figure cdg2-15. Diagram of contours

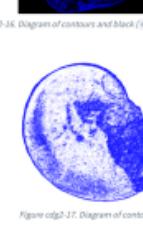


Figure cdg2-16. Diagram of contours and black (#0000) background.

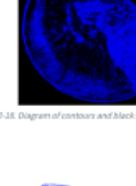


Figure cdg2-17. Diagram of contours

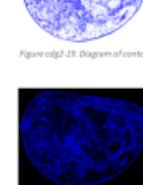


Figure cdg2-18. Diagram of contours and black (#0000) background.

Genus *Tetragonites**Tetragonites glabrus*

Figure cdg2-19. Diagram of contours



Figure cdg2-20. Diagram of contours and black (#0000) background.

Class Polyplacophora 多板綱

Genus *Acanthopleura**Acanthopleura japonica*

Figure cdg2-21. Diagram of contours



Figure cdg2-22. Diagram of contours and black (#0000) background.



Figure cdg2-23. Diagram of contours



Figure cdg2-24. Diagram of contours and black (#0000) background.

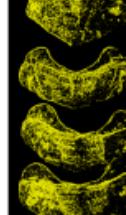


Figure cdg2-25. Diagram of contours

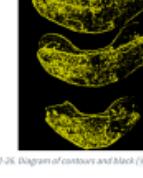


Figure cdg2-26. Diagram of contours and black (#0000) background.



- 01 Introduction
- 02 Phylum Mollusca Class Gastropoda 軟体動物門…
- 03 Phylum Mollusca Class Bivalvia 軟体動物門…
- 04 Phylum Mollusca Class Cephalopoda 軟体動物門…
- 05 Phylum Mollusca Class Cephalopoda 2 軟体…
- 06 Phylum Mollusca Class Polyplacophora 軟体…
- 07 Phylum Arthropoda Class Malacostraca 節…
- 08 Phylum Chordata Subphylum Vertebrata 脊…
- 09 Contour Diagrams 1 輪郭図 1
- 10 Contour Diagrams 2 輪郭図 2
- 11 Contour Diagrams 2-2 輪郭図 2-2
- 12 Contour Diagrams 3 輪郭図 3

Contour Diagrams 3 輪郭図 3

YujiSode 2022.08.30に更新

このチャプターの目次

Contour Diagrams (malacostracans and vertebrates) 輪郭図 (軟甲類と脊椎動物)

輪郭図は本書の標本画像に輪郭抽出を適用した結果に基づいて作成した図です。

These contour diagrams based on each result of contour extraction from sample image in this book.

Class Malacostraca 軟甲綱

Genus *Linuparus*

Linuparus sp.



Figure cdg3-1. Diagram of contours

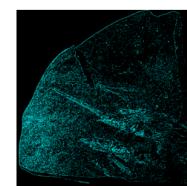


Figure cdg3-2. Diagram of contours and black (#0000f) background.

Superfamily Majoidea

Superfamily Majoidea gen. et sp. indet.

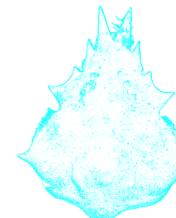


Figure cdg3-3. Diagram of contours

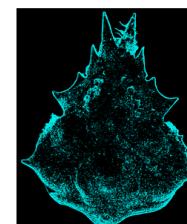


Figure cdg3-4. Diagram of contours and black (#0000f) background.

Subphylum Vertebrata 脊椎動物亜門

Vertebræ

Vertebræ gen. et sp. indet.

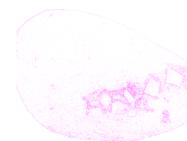


Figure cdg3-5. Diagram of contours

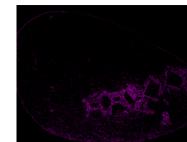


Figure cdg3-6. Diagram of contours and black (#0000f) background.

PREV

← Contour Diagrams 2-2 輪郭図
2-2

NEXT

→ References



01 Introduction

02 Phylum Mollusca Class Gastropoda 軟体動物門

03 Phylum Mollusca Class Bivalvia 軟体動物門

04 Phylum Mollusca Class Cephalopoda 軟体動物門

05 Phylum Mollusca Class Cephalopoda 2 軟体動物門

06 Phylum Mollusca Class Polyplacophora 軟体動物門

07 Phylum Arthropoda Class Malacostraca 节足動物門

08 Phylum Chordata Subphylum Vertebrata 脊索动物門

09 Contour Diagrams 1 輪郭図 1

10 Contour Diagrams 2 輪郭図 2

11 Contour Diagrams 2-2 輪郭図 2-2

12 Contour Diagrams 3 輪郭図 3

13 References**References**
 YujiSode
2024.02.05に更新

このチャプターの目次

References

- Hayakawa H. 2003. Aspect of Ammonitology in Hokkaido. The Hokkaido Shimbun Press (in Japanese).
ISBN-10: 4894532573
ISBN-13: 978-4894532571
- Ikeda, H. 2009. *Umibe de hireru kai handobukku (The handbook of the seashells collected on beach)*. Bun-ichi Sogo Shuppan (in Japanese).
ISBN-10: 4829910240
ISBN-13: 978-4829910245
- Japan Agency for Marine-Earth Science and Technology. 2009 onwards. *Biological Information System for Marine Life* at <https://www.godac.jamstec.go.jp/bismal/j/view/0000715> (derived on 2020-10-24).
- Japan Paleobiology Database. 2012-2023. jPaleoDB at <http://jpaleodb.org/hierarchy/index.php?Kingdom=Animalia&Phylum=Mollusca&Class=Gastropoda&Order=Cephalaspidea&Family=Ringiculidae&Genus=Avellana> (derived on 2023-03-17; in Japanese).
- Matsumoto, T. and Obata, I. 1963. A monograph of the Baculitidae from Japan. *Mem. Faculty of science, Kyushu University, D, Geology*, **13**, (1), 1-116.
- Nishimura, T., Maeda, H., Tanaka, G. and Ohno, T. 2010. Taxonomic Evaluation of Various Morphological Characters in the Late Cretaceous Desmoceratine Polyphyletic Genus "Damesites" from the Yezo Group in Hokkaido and Sakhalin. *Paleontological Res.*, **14**, 33-55.
- Noda, M. 2001. Notes on the polymorphism of the Cretaceous inoceramid bivalves. *Ann. report of the Geol. Soc. of Oita*, (7). 43-64 (in Japanese and English abstract).
- Okamoto, T. and Shibata, M. 1997. A cyclic mode of shell growth and its implications in a Late Cretaceous heteromorph ammonite Polyptychoceras pseudogaultinum (Yokoyama). *Paleontological Res.*, **1**, (1), 29-46.
- Okamoto, T., Matsunaga, G., and Okada, M. (2003). Restudy of the Upper Cretaceous stratigraphy in the Haboro area, northwestern Hokkaido. *Jour. Geol. Soc. of Japan*, **109**, (7), 363-382 (in Japanese with English abstract).
- Okutani, T. 2006. Nippon No Kai 1. *Field best encyclopedia*. Gakushu Kenkyusha (in Japanese).
ISBN-10: 405402887X
ISBN-13: 978-4054028876
- Okutani, T. 2006. Nippon No Kai 2. *Field best encyclopedia*. Gakushu Kenkyusha (in Japanese).
ISBN-10: 4054028888
ISBN-13: 978-4054028883
- Sasaki, T. 2010. *Malacology*. University of Tokyo Press (in Japanese).
ISBN-10: 4130601903
ISBN-13: 978-4130601900
- Sode, Y. 2019. *YSCollection07_18*. https://github.com/YujiSODE/YSCollection07_18
- Tashiro, M. 1967. 熊本県産三角貝について. 熊本地学会誌, (25), 7-11 (in Japanese).
- Wright, C. W., Calloman, J. H., and Howarth, M. K. (1996). Cretaceous Ammonidea. *Treatise on Invertebrate Paleontology Part L, Mollusca 4, Revised*, **4**, Lawrence: Geological Society of America, Boulder, and University of Kansas Press.



YujiSode

興味のある分野はJavaScript, Tcl, 数学, 地質学, 生物学などです。

フォロー



PREV

Contour Diagrams 3 輪郭図 3