# Nationaal Natuurhistorisch Museum Naturalis, Leiden
# National Museum of Natural History Naturalis, Leiden

This CD-ROM contains material from the Leiden museum not widely published in hardcopy form. It is made available in digital form through this CD-ROM, and readable through the Adobe Acrobat Reader.

## CD-ROM Terms and Conditions of Use

1. License
(a) The National Museum of Natural History Naturalis (short: Naturalis) grants the customer a non-exclusive non-transferable license to use this CD-ROM either (i) on a single computer for use by one or more people at different times or (ii) by a single user on one or more computers (provided the CD-ROM is used only on one computer at one time and is always the same user).
(b) The customer must not: (i) copy or authorize the copying of the CD-ROM, except that Library customers may make one copy for archiving purposes only; (ii) translate the CD-ROM, (iii) reverse-engineer, disassemble or decompile the CD-ROM, (iv) transfer, sell assign, or otherwise convey any portion of the CD-ROM, or (v) operate the CD-ROM from a network or mainframe system.
(c) The customer may use the CD-ROM for educational and research purposes as follows: material contained on a single screen may be printed out and used within a fair use/fair dealing context; images may be downloaded for bona fide teaching purposes but may not be further distributed in any form or made available for sale. An archive copy of the product may be made where libraries have this facility, on condition that the copy is for archiving purposes only and is not used or circulated within or beyond the library where the copy is made.

2. Copyright
All material contained within the CD-ROM is protected by copyright. All rights are reserved except those expressly licensed.

3. Limited warranty
To the extent permitted by applicable law, Naturalis accepts no liability for consequential loss or damage of any kind resulting from the use of the CD-ROM or from errors or faults contained in it. Naturalis's liability shall extend only to replacing a product that is defective.

4. Correspondence with the publisher
The Publisher
Nationaal Natuurhistorisch Museum Naturalis
Postbus 9517
NL-2300 RA Leiden
The Netherlands

v 2003-06-10

10

# NNM Technical Bulletin

**Jacob Leloux & Willem Renema**

Types and originals of fossil Porifera and Cnidaria of Indonesia in Naturalis

November 2007

nationaal
natuurhistorisch
national museum
of natural history

**CIP-gegevens Koninklijke Bibliotheek, Den Haag**

**10**

**Jacob Leloux & Willem Renema**

Types and originals of fossil Porifera and Cnidaria
of Indonesia in Naturalis

(NNM Technical Bulletin 10; ISSN 1387-0211)
Subject headings: Gerth, Martin, Umbgrove, Foraminifera, Hydrozoa, Scleractinia, Rugosa, Tabulata, Octocorallia, Bivalvia, Ammonoidea, Echinodermata, Rhodophyta, Tertiary, Permian.

The NNM Technical Bulletin may be obtained from the librarian:

Nationaal Natuurhistorisch Museum,
P.O. Box 9517,
2300 RA Leiden,
The Netherlands.

© Reproduction authorized for non-commercial purposes, providing that acknowledgement is given.

nationaal
natuurhistorisch
national museum
of natural history

# Types and originals of fossil Porifera and Cnidaria of Indonesia in Naturalis

**Jacob Leloux & Willem Renema**

Jacob Leloux & Willem Renema. Types and originals of fossil Porifera and Cnidaria of Indonesia in Naturalis.
*NNM Technical Bulletin*, 10: 1-305, 104 pls; Leiden, November 2007.
Willem Renema, National Museum of Natural History, Postbus 9517, 2300 RA Leiden, The Netherlands (e-mail: renema@naturalis.nl).
Jacob Leloux, id. (e-mail: leloux@naturalis.nl).

Key words: Gerth, Martin, Umbgrove, Foraminifera, Hydrozoa, Scleractinia, Rugosa, Tabulata, Octocorallia, Bivalvia, Ammonoidea, Echinodermata, Rhodophyta, Tertiary, Permian
The collection of Naturalis contains a significant collection of fossil corals and sponges. Within the framework of the 'NWO Groot' digitalisation projects the typespecimens, mainly from Indonesia, of Gerth, Umbgrove and related researchers were catalogued. 3920 lots containing 3479 typespecimens related to 676 taxa are concerned.

## Contents

Introduction ..... 5
Abbreviations ..... 6
List of taxa and specimens ..... 8
Acknowledgements ..... 69
References ..... 69
List of fossil localities ..... 76
Index ..... 88
Plates ..... 97

## Introduction

During the last part of the 19th and the beginning of the 20th century important samples of Cenozoic fossil corals were collected in the then Netherlands East-Indies (currently Indonesia). Although the expeditions were joint efforts of several Dutch universities, the collections became separated and were stored in Leiden, Delft, Amsterdam and Utrecht. In the second part of 20th century this process reversed, first by buying of the Umbgrove collection by the Rijksmuseum voor Geologie (RGM, now Nationaal Natuurhistorisch Museum Naturalis (NNM)) and later with moving the Delft collections (Technische Hogeschool Delft) to NNM as well. In 2002 also parts of the collections of the University of Amsterdam were transferred to Leiden. The remaining part is still stored in Artis Zoo. Because only a limited amount of material is available and many localities are relatively inaccesible, these collections have been studied over and over again. In fact, most publications are the result of collecting efforts in a short period between 1900-1910, with relatively few later additons. A limited amount of samples was collected in the period 1870-1920 by prof. K. Martin, F.W. Junghuhn and P. van Dijk. The facts that a large number of publications refer to the same samples, that samples have been restudied without clear reference to previous work, and that hardly any sufficient descriptions of the whereabouts of the localites are available has created a lot of confusion about the status of the collections. As a result there has been little interest to restudy the material.

In the present work we aim to document all the type and figured material of the fossil corals and sponges collected in Indonesia, present at NNM. In the collection 3479 type specimens of 229 taxa, and an additional 360 figured specimens of 109 taxa are present. All type and figured coral and sponge specimens have been fotographed.

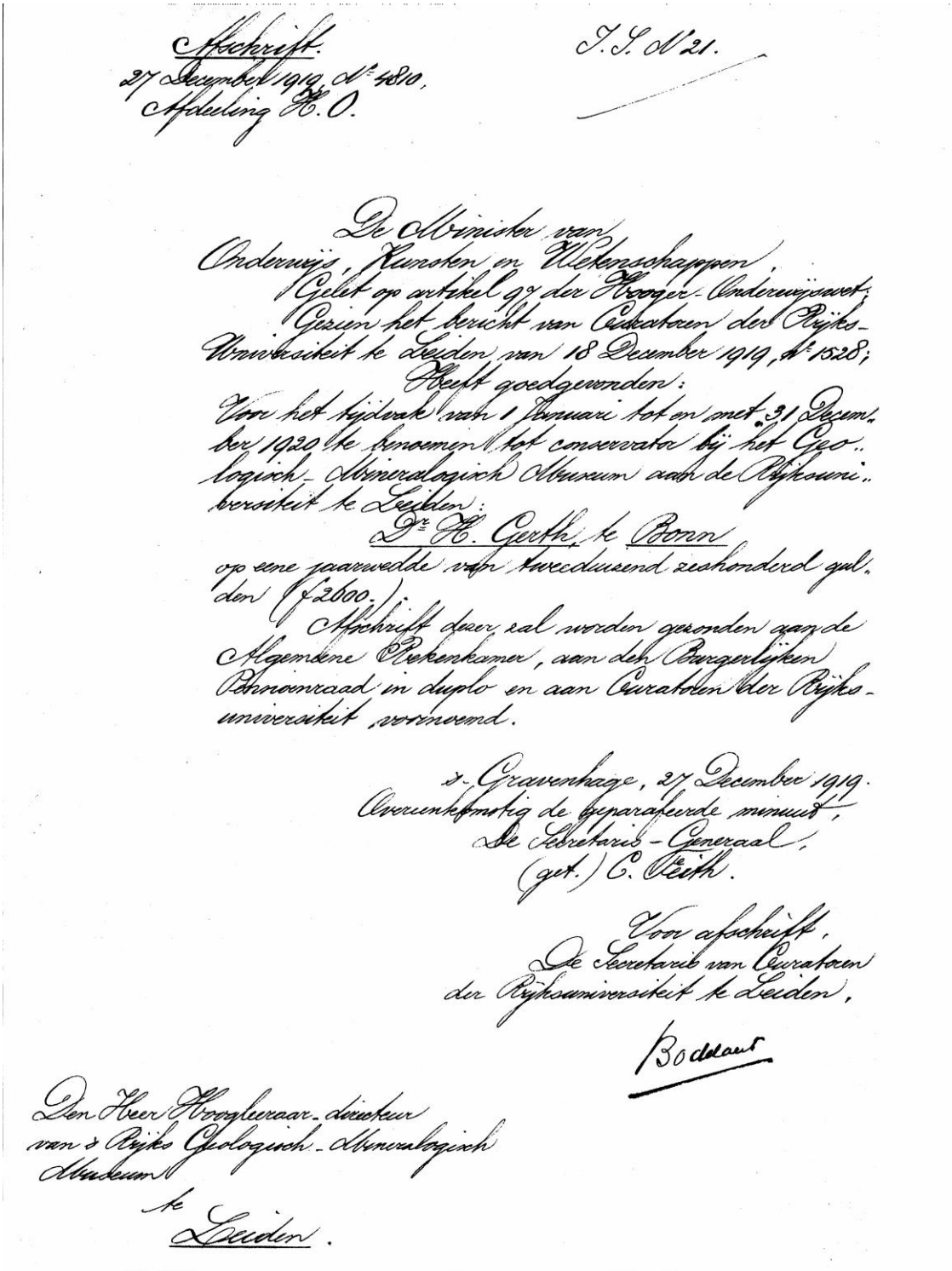
Two persons have been very important for these collections, prof. H. Gerth and prof. J.H.F. Umbgrove. Heinrich Gerth (18 June 1884 -2 August 1971) studied Geology in Heidelberg, München, Berlin and Freiburg and obtained his Ph.D. in 1908 at the Universty of Bonn (Germany). His first job brought him to the Mining Department in Buenas Airos (Argentina) from 1910-1913. In 1918 he returned to Bonn. From 1920-1928 he obtained a position as curator at the Rijksmuseum voor Geologie en Mineralogie. He attended the the 5$^{th}$ Panpacific Science Conference in Bandung in 1929. Gerth did some additional colecting in nearby Javanese localities himself. In 1930 he moved to the Universtiy of Amsterdam, where he stayed until 1945. (Müller, 1972). After the second world war he returned to Bonn.

Johannes Herman Frederik Umbgrove (Hulsberg, Limburg, Februari, 5$^{th}$, 1899 - Delft, July, 14$^{th}$, 1954). In 1919 he started studying geology in Leiden. In 1926 he took his doctor's degree on the stratigraphy, tectonics

and petrography of the Upper Cretaceous of Limburg. In 1926 Umbgrove went to Indonesia as a coral specialist, but there he broadened his scope to Cenozoic foraminifera, volcanoes, tectonics and palaeogeography. He worked for the Geological Survey for three years. Upon returning to the Netherlands in 1929 he worked as an assistant of Professor Escher at the RGM for a short time. In 1930 he became professor of historical geology and palaeontology in Delft. In 1952 he fell ill and died two years later. During his life he published more than one hundred and twenty papers, articles and books. His private collection was bought by RGM in 1955. (Leloux, 2002)

**Abbreviations**

| | |
|---|---|
| IPB | Institut für Paläontologie, Rheinische Friedrich-Wilhems-Universität in Bonn, Germany |
| NNM | "Nationaal Natuurhistorisch Museum Naturalis" (National Museum of Natural History) in Leiden, The Netherlands |
| RGM | "Rijks Museum voor Geologie en Mineralogie", former geological museum, now part of NNM, but still in use as institutional code for the geological collections of NNM |
| THDKA | "Technische Hoogeschool Delft" KA collection, now part of the NNM collections |



Afschrift.
27 December 1919 No 4810.
Afdeeling H. O.

I. I. No 21.

De Minister van
Onderwijs, Kunsten en Wetenschappen,
Gelet op artikel 97 der Hooger-Onderwijswet;
Gezien het bericht van Curatoren der Rijks-Universiteit te Leiden van 18 December 1919, No 1528;
Heeft goedgevonden:
Voor het tijdvak van 1 Januari tot en met 31 December 1920 te benoemen tot conservator bij het Geologisch-Mineralogisch Museum aan de Rijksuniversiteit te Leiden:
Dr H. Gerth, te Bonn
op eene jaarwedde van tweeduizend zeshonderd gld. den (f 2600.-).
Afschrift dezer zal worden gezonden aan de Algemene Rekenkamer, aan den Burgerlijken Pensioenraad in duplo en aan Curatoren der Rijks-universiteit, voormeld.

's-Gravenhage, 27 December 1919.
Overeenkomstig de geparafeerde minuut,
De Secretaris-Generaal,
(get.) C. Veith.

Voor afschrift,
De Secretaris van Curatoren
der Rijksuniversiteit te Leiden,
Bodelaer

Den Heer Hoogleeraar-directeur
van 's Rijks Geologisch-Mineralogisch
Museum
te
Leiden.

Textfigure 1. Letter of appointment of Heinrich Gerth in Leiden.

**List of taxa and specimens**

The taxa are listed alphabetically according to genera within the main groups of organisms. Of the following taxa no author and publication date could be found within the time of the project: *Porites timorensis*, *Thecosmilia caespitosa*, *Thecosmilia fenestrata*, *Cladochonus crassus*, *Pericosmus timorensis*, *Phyllacanthus imperialis*, *Bullatimorphites (Treptoceras)*.

Regnum Animalia Linnaeus, 1758
Phylum Bryozoa Ehrenberg, 1831
Genus *Dybowskiella* Waagen & Wentzel, 1886
*Dybowskiella grandis* Waagen & Wentzel, 1886

*Dybowskiella grandis* Waag. u. Wentz — Gerth, 1938: 234, pl. 15 fig. 9

Material from the Upper Permian of the surroundings of Kyam collected by Yale University in 1932 (thin section RGM.525550 (pl. 15 fig. 9 in Gerth, 1938) [pl. 1 fig. 1]).

Genus *Hexagonella* Waagen & Wentzel, 1886
*Hexagonella* sp.

*Hexagonella* spec — Gerth, 1938: 234, pl. 15 fig. 8

Material from the Upper Permian of the surroundings of Kyam collected by Yale University in 1932 (thin section RGM.525551 (pl. 15 fig. 8 in Gerth, 1938) [pl. 1 fig. 2]).

Genus *Monotrypella* Ulrich, 1882
*Monotrypella spongicola* Vinassa de Regny, 1915

*Monotrypella spongicola* n. f — Vinassa de Regny, 1915: 112, pl. 67(5) fig. 13-15

Syntype from the Upper Triassic along a path from Kapan to Noil Toko near Fatu Suaam and small Fatus south of Fatu Suaam collected by Molengraaff during the 1911 Timor expedition (sample THDKA.12845 (4 fragments) (pl. 67(5) fig. 13-15 in Vinassa de Regny, 1915) [pl. 1 fig. 3 and pl. 1 fig. 4]).

Phylum Cnidaria Hatschek, 1888
Superclass Hydrozoa Owen, 1843
Genus *Disjectopora* Waagen & Wentzel, 1887
*Disjectopora dubia* Vinassa de Regny, 1915

*Disjectopora dubia* n. f — Vinassa de Regny, 1915: 109-110, pl. 67(5) fig. 8-11

Holotype from the Upper Triassic at a small hill south of Fatu Noi Suaam collected by Molengraaff during the 1911 Timor expedition (specimen THDKA.12844 (pl. 67(5) fig. 8-11 in Vinassa de Regny, 1915) [pl. 1 fig. 5]).

Genus *Heterastridium* Reuss, 1865
*Heterastridium conglobatum* Reuss, 1890

*Heterastridium conglobatum* Reuß — Gerth, 1915: 66-67, textfig. 2, pl. 42 fig. 1, 5
*Heterastridium conglobatum* Reuss — Gerth, 1944: 187-188, 186, pl. 8 fig. 4, pl. 9 fig. 2-4, 6, 8, pl. 10 fig. 6

Material from the Permian of Nussa Tenggara Timur (sample IPB Gerth.1a-c (2 specimens) (text-fig. 2, pl. 42 fig. 1 in Gerth, 1915)).

Remarks: The specimen figured in pl. 42 fig. 5 in Gerth (1915) should be stored at IPB, but was not mentioned in the list sent by Manuel Kunz (November, 2005). Gerth (1944) figured five specimens and a thin section. No material in NNM collection.

*Heterastridium conglobatum* forma *aplanata* Gerth, 1915

*Heterastridium conglobatum* Reuß Forma *aplanata* nov. form — Gerth, 1915: 68, textfig. 1, pl. 42 fig. 9
*Heterastridium conglobatum* Reuss, forma *aplanata* Gerth — Gerth, 1931a: 127
*Heterastridium conglobatum* forma *aplanata* — Gerth, 1944: 194, pl. 10 fig. 4

Syntype from the Permian of Nussa Tenggara Timur (specimen IPB Gerth.3a (2 thin sections, 2 fragments) (pl. 42 fig. 9 in Gerth, 1915)).

Remarks: The thin section illustrated in text-fig. 1 is not mentioned in the list that Manuel Kunz sent in November, 2005, but it is probably one of the thin sections in IPB Gerth 3 a. In the caption of fig. 4 in Gerth (1944) the epithet is misspelled as "applanata". The original correct spelling is "aplanata". No material in NNM collections

*Heterastridium conglobatum* var. *intermedia* (Duncan, 1892)

*Heterastridium conglobatum* Reuß Var. *intermedia* Dunc — Gerth, 1915: 67-68, pl. 42 fig. 3, 4, 7
*Heterastridium conglobatum* Reuss var. *intermedia* Dunc — Gerth, 1944: 190-191, 187, pl. 8 fig. 7, pl. 10 fig. 2

Material from the Permian of Nussa Tenggara Timur (sample IPB Gerth.3a,b (2 specimens) (pl. 42 (1) fig. 4, 8 in Gerth, 1915)).

Remarks: No material in NNM collection.

*Heterastridium conglobatum* var. *monticularia* (Duncan, 1879a)

*Heterastridium conglobatum* Reuß Var. *monticularia* Duncan — Gerth, 1915: 67, pl. 42 fig. 6
*Heterastridium conglobatum* Reuss var. *monticularia* (Dunc.) — Gerth, 1944: 189-190, 187, pl. 8 fig. 1, 5, pl. 10 fig. 5, 8

Material from the Permian of Nussa Tenggara Timur (specimen IPB Gerth.1a (pl. 42 (1) fig. 6 in Gerth, 1915)).

Remarks: No material in NNM collection.

*Heterastridium conglobatum* var. *verrucosa* (Duncan, 1879a)

*Heterastridium conglobatum* Reuß Var. *verrucosa* Dunc — Gerth, 1915: 67, pl. 42 fig. 2
*Heterastridium conglobatum* Reuss var. *verrucosa* Dunc — Gerth, 1944: 190, 187, pl. 8 fig. 2

Material from the Permian of Nussa Tenggara Timur (specimen IPB Gerth.2 (pl. 42 fig. 2 in Gerth, 1915)).

Remarks: According to a note in a copy of Gerth (1915) in the library of NNM (handwritten probably by Gerda de Groot): "Gerth, 1942: *H. conglobatum* var. *verrucosa* = *H. conglobatum* var. *monticularia*".

Class Anthozoa Ehrenberg, 1834
Subclass Octocorallia Haeckel, 1866
Genus *Isis* Linnaeus, 1758
*Isis polyacantha* Steenstrup, 1849

*Isis* cf. *polyacantha* Steenstr — Felix, 1920: 23-25, 38, pl. 128 fig. 2-4

Material from the Pliocene-Pleistocene, 383 m above sealevel near Noil-Noni and Pene collected by Molengraaff during the 1911 Timor expedition (specimen THDKA.13665 (pl. 128 fig. 4, 4a-b in Felix, 1920) [pl. 1 fig. 6 and pl. 1 fig. 7]), near Kampong Fatukan close to Lahurus collected by Molengraaff during the 1911 Timor expedition (2 specimens THDKA.13663 (pl. 128 fig. 3 in Felix, 1920) [pl. 1 fig. 8 and pl. 1 fig. 9], THDKA.13664 (pl. 128 fig. 2, 2a in Felix, 1920) [pl. 1 fig. 10 and pl. 1 fig. 11]).

*Isis* sp.

*Isis* spec — Umbgrove, 1945: 344, fig. 4-6

Material from the Miocene-Pliocene: Halang beds near Cisande collected by Umbgrove in 1928 (2 specimens RGM.77553 (fig. 4-5 in Umbgrove, 1945) [pl. 1 fig. 12, pl. 1 fig. 13 and pl. 1 fig. 14], RGM. 167663 (fig. 6 in Umbgrove, 1945) [pl. 1 fig. 15]).

Genus *Tubipora* Linnaeus, 1758
*Tubipora rubiola* Quoy & Gaimard, 1833

*Tubipora rubiola* Quoy et Gaim — Felix, 1920: 25-26, 38, pl. 128 fig. 9

Material from the Pliocene-Pleistocene between Wekmurak and Mancelac collected by Molengraaff during the 1911 Timor expedition (specimen THDKA.13662 (pl. 128 fig. 9 in Felix, 1920) [pl. 2 fig. 1 and pl. 2 fig. 2]).

*Tubipora* sp.

*Tubipora* spec — Umbgrove, 1945: 344, fig. 2-3

Material from the Miocene-Pliocene: Halang beds near Cisande collected by Umbgrove in 1928 (2 specimens RGM.77551 (fig. 2 in Umbgrove, 1945) [pl. 2 fig. 3 and pl. 2 fig. 4], RGM.77552 (fig. 3 in Umbgrove, 1945) [pl. 2 fig. 5]).

Order Rugosa Milne Edwards & Haime, 1850-1855
Genus *Amplexocarinia* Soshkina, 1928
*Amplexocarinia abichi* (Waagen & Wentzel, 1886)

*Amplexus coralloïdes* (Sow.) — Koker, 1924: 16, 15 text-fig. 11
*Amplexus coralloides* var. *naliensis* Gerth — Gerth, 1931a: 121
*Amplexocarinia abichi* (Waagen & Wentzel 1886) — Von Schouppé & Stacul, 1959: 301-307, text-fig. 22a-3, pl. 11 fig. 41

Material from the Permian near Basleo collected by Jonker during the 1916 Timor expedition (specimen RGM.529871), of Nefotassi (specimen THDKA. 11757 (text-fig. 11 in Koker, 1924) [pl. 2 fig. 6, pl. 2 fig. 7 and pl. 2 fig. 8]).

Remarks: Von Schouppé & Stacul (1959) did not select a lectotype since they did not know if the original material of Waagen & Wentzel (1886) still existed.

*Amplexocarinia bitauniensis* Von Schouppé & Stacul, 1959

*Amplexus coralloides* Sow — Gerth, 1921a: 95-96, pl. 146 fig. 22-23; Gerth, 1921b: 8, pl. 1 fig. 11
*Amplexocarinia bitauniensis* n. sp — Von Schouppé & Stacul, 1959: 307
*'Amplexus' coralloides* Gerth non Sowerby — Visser & Hermes, 1962: 53, encl. 17 fig. 11-13, 14b

Holotype from the Permian of Bitauni collected by Molengraaff during the 1911 Timor expedition (specimen THDKA.11758 (pl. 146 fig. 23 in Gerth, 1921a) [pl. 2 fig. 9, pl. 2 fig. 10 and pl. 2 fig. 11]).

Paratypes from the Permian of Bitauni collected by Molengraaff during the 1911 Timor expedition (specimen THDKA.11759 (pl. 146 fig. 22 in Gerth, 1921a) [pl. 2 fig. 12 and pl. 2 fig. 13]), collected by

Jonker during the 1916 Timor expedition (specimen RGM.525663 [pl. 2 fig. 14, pl. 2 fig. 15 and pl. 3 fig. 1]).

Additional material from the Permian: 'B' Member of Kamundan collected by Leine (fragment RGM.298038b (fig. 14 in Visser & Hermes, 1962) [pl. 3 fig. 2], 2 specimens RGM.298035 (1 specimen, 1 thin section) (fig. 13 in Visser & Hermes, 1962) [pl. 3 fig. 3, pl. 3 fig. 4 and pl. 3 fig. 5], RGM.298037 (fig. 12 in Visser & Hermes, 1962) [pl. 3 fig. 6 and pl. 3 fig. 7], thin section RGM.298036 (fig. 11 in Visser & Hermes, 1962) [pl. 3 fig. 8]).

Remarks: Plate 146 fig. 23 (Gerth, 1921a) and pl. 1 fig. 11 (Gerth, 1921b) illustrate the same specimen.

### *Amplexocarinia geyeri* Heritsch, 1933

*Amplexocarinia geyeri* Heritsch 1933? — Von Schouppé & Stacul, 1959: 313-315, text-fig. 25a-d, pl. 12 fig. 49

Material from the Permian near Basleo collected by Jonker during the 1916 Timor expedition (specimen RGM.529874 [pl. 3 fig. 9 and pl. 3 fig. 10]).

### *Amplexocarinia jonkeri* (Koker, 1924)

*Pinacophyllum Jonkeri* (nov. spec.) — Koker, 1924: 27-28, text-fig. 17-17a, pl. 7 fig. 2

*Amplexocarinia jonkeri* (Koker 1924) — Von Schouppé & Stacul, 1959: 311-313, text-fig. 24a-d, pl. 12 fig. 46-48

Lectotype from the Permian near Basleo collected by Jonker during the 1916 Timor expedition (specimen THDKA.16087 (pl. 12 fig. 46-47 in Von Schouppé & Stacul, 1959) [pl. 3 fig. 11, pl. 3 fig. 12 and pl. 3 fig. 13]).

Paralectotypes from the Permian near Basleo collected by Jonker during the 1916 Timor expedition (3 specimens RGM.529850 [pl. 3 fig. 14 and pl. 3 fig. 15], RGM.529873, RGM.529875).

Syntypes from the Permian near Basleo (42 specimens RGM.529852-529853, RGM.529856-529865, RGM.529867-529870, RGM.529879-529886, RGM.529888-529893, RGM.529895-529906), collected by Jonker during the 1916 Timor expedition (5 specimens RGM.529871-529872, RGM.529874 [pl. 3 fig. 9 and pl. 3 fig. 10], RGM.529876 [pl. 4 fig. 1, pl. 4 fig. 2 and pl. 4 fig. 3], RGM.529877).

Remarks: Koker (1924) studied numerous fragments. Von Schouppé & Stacul (1959) selected THDKA.16087 as lectotype. They only saw five specimens of Koker, of which they considered only three to belong to *Amplexocarinia jonkeri*, so the other specimens of Koker are for now regarded as syntypes.

### *Amplexocarinia naliensis* (Gerth, 1921a)

*Amplexus coralloides* Sow. var. *naliensis* var. nov — Gerth, 1921a: 97

*Amplexocarinia naliensis* (Gerth 1921) — Von Schouppé & Stacul, 1959: 307-308, pl. 12 fig. 42-43

Lectotype from the Permian of Noil Nalien collected by Jonker during the 1916 Timor expedition (specimen THDKA.16086 (pl. 12 fig. 42-43 in Von Schouppé & Stacul, 1959) [pl. 4 fig. 4 and pl. 4 fig. 5]).

Paralectotypes from the Permian of Noil Nalien (specimen RGM.525639 [pl. 4 fig. 6 and pl. 4 fig. 7]), collected by Molengraaff in November, 1911 (4 specimens RGM.525641-525644), collected by Molengraaff during the 1911 Timor expedition (3 specimens THDKA.11760 [pl. 4 fig. 8, pl. 4 fig. 9 and pl. 4 fig. 10], THDKA.11761 [pl. 4 fig. 11, pl. 4 fig. 12 and pl. 4 fig. 13], THDKA.11762 [pl. 4 fig. 14, pl. 4 fig. 15 and pl. 5 fig. 1]).

Remarks: Some of the multiple specimens studied by Gerth (1921a) were regarded as *Amplexocarinia abichi* by Von Schouppé & Stacul (1959). Von Schouppé & Stacul (1959) selected THDKA.16086 as lectotype.

## Genus *Amplexus* Sowerby, 1814

### *Amplexus beyrichi* Martin, 1883

*Amplexus Beyrichi* nov. spec — Martin, 1883: 36-37, pl. 1 fig. 1-1b

*Amplexus Beyrichi* K. Martin — Gerth, 1921a: 97; Gerth, 1921b: 9

*Amplexus beyrichi* Mart — Gerth, 1931a: 121

Syntypes from the Permian of Kali Mati near Kupang collected by C.F.A. Schneider (6 specimens RGM.11977 (pl. 1 fig. 1 in Martin, 1883) [pl. 5 fig. 2 and pl. 5 fig. 3], RGM.299372 (pl. 1 fig. 1a in Martin, 1883) [pl. 5 fig. 4 and pl. 5 fig. 5], RGM.299373 (pl. 1 fig. 1b in Martin, 1883) [pl. 5 fig. 6 and pl. 5 fig. 7], RGM.299374 [pl. 5 fig. 8 and pl. 5 fig. 9], RGM.299375 [pl. 5 fig. 10 and pl. 5 fig. 11], RGM.299376 [pl. 5 fig. 12 and pl. 5 fig. 13]).

Additional material from the Permian of Kali Mati near Kupang (specimen IPB Gerth.31a).

## Genus *Basleophyllum* Von Schouppé & Stacul, 1959

### *Basleophyllum incertum* (Koker, 1924)

*Zaphrentis incerta* (spec. nov.) — Koker, 1924: 7, text-fig. 2-3

*Zaphrentis Bowerbanki* (M. Edw. & Haime) — Koker, 1924: 8, pl. 2 fig. 2-2b

*Basleophyllum incertum* (Koker 1924) — Von Schouppé & Stacul, 1959: 277-280, text-fig. 14a-f, pl. 10 fig. 27-28

Lectotype from the Permian near Basleo (specimen THDKA.11744 [pl. 5 fig. 14 and pl. 5 fig. 15]).

Paralectotypes from the Permian near Basleo (18 specimens RGM.525556 (2 fragments), RGM.525557-525572 [pl. 6 fig. 1 and pl. 6 fig. 2], THDKA.11745 [pl. 6 fig. 3 and pl. 6 fig. 4]).

Additional material from the Permian near Basleo (2 specimens THDKA.11737 (pl. 2 fig. 2b in Koker, 1924) [pl. 6 fig. 5, pl. 6 fig. 6, pl. 6 fig. 7 and pl. 6 fig. 8], THDKA.11738 (pl. 2 fig. 2-2a in Koker, 1924) [pl. 6 fig. 9 and pl. 6 fig. 10]).

Remarks: Koker (1924) used 18 specimens for her description. Von Schouppé & Stacul (1959) selected THDKA.11744 as lectotype. The three fragments of sample RGM.525571 are for now regarded as belonging to the same specimen.

*Basleophyllum indicum* (Koker, 1924)

*Duncania indica* (spec. nov.) — Koker, 1924: 11, pl. 2 fig. 3
*Zaphrentis Phillipsi* (M. Edw. & Haime) — Koker, 1924: 6, pl. 1 fig. 4-4a
*Basleophyllum indicum* (Koker 1924) — Von Schouppé & Stacul, 1959: 272-275, text-fig. 12a-i, pl. 10 fig. 23-25

Holotype from the Permian near Basleo (specimen THDKA.11754 (pl. 2 fig. 3 in Koker, 1924) [pl. 6 fig. 11 and pl. 6 fig. 12]).

Additional material from the Permian near Basleo (specimen THDKA.11753 (pl. 1 fig. 4-4a in Koker, 1924) [pl. 6 fig. 13 and pl. 6 fig. 14]).

*Basleophyllum pachyderma* (Koker, 1924)

*Zaphrentis Phillipsi*. (M. Edw. & H.) — Koker, 1924: 6, text-fig. 1
*Zaphrentis pachyderma* (spec. nov.) — Koker, 1924: 7-8, text-fig. 4-6, pl. 1 fig. 3-3a, 5-5a
*Basleophyllum pachyderma* (Koker 1924) — Von Schouppé & Stacul, 1959: 275-277, text-fig. 13a-e, pl. 10 fig. 26

Lectotype from the Permian near Basleo (specimen THDKA.11750 (3 fragments) (pl. 1 fig. 5-5a in Koker, 1924) [pl. 6 fig. 15, pl. 7 fig. 1, pl. 7 fig. 2 and pl. 7 fig. 3]).

Paralectotypes from the Permian near Basleo (2 fragments RGM.525600 [pl. 7 fig. 4], THDKA.11747 [pl. 7 fig. 5], 50 specimens RGM.525552 (1 thin section, 1 fragment) [pl. 7 fig. 6, pl. 7 fig. 7 and pl. 7 fig. 8], RGM.525553 [pl. 7 fig. 9 and pl. 7 fig. 10], RGM.525554 [pl. 7 fig. 11 and pl. 7 fig. 12], RGM.525584-525599, RGM.525602-525615, RGM.525617-525626, RGM.525628-525629, RGM.525631-525632, THDKA.11746 (text-fig. 4 in Koker, 1924) [pl. 7 fig. 13 and pl. 7 fig. 14], THDKA.11748 (text-fig. 6 in Koker, 1924) [pl. 7 fig. 15, pl. 8 fig. 1 and pl. 8 fig. 2], THDKA.11749 (pl. 1 fig. 3-3a in Koker, 1924) [pl. 8 fig. 3 and pl. 8 fig. 4]), of Basleo A (5 specimens RGM.525634-525638).

Additional material from the Permian near Basleo (specimen THDKA.11752 (text-fig. 1 in Koker, 1924) [pl. 8 fig. 5 and pl. 8 fig. 6]).

Remarks: Von Schouppé & Stacul (1959) selected THDKA.11750 as lectotype out of the 67 specimens studied by Koker (1924). Fragment RGM.525600 could belong to the same specimen as THDKA.11746. Fragment THDKA.11747 does not resemble text-fig. 5 in Koker (1924). Probably the other half is depicted, but that part has not been found.

Genus *Caninia* Michelin in Michelin, 1840-1847
*Caninia arundinacea* (Lonsdale, 1845)

*Amplexus arundinaceus* Lonsd — Gerth, 1921a: 97-98, pl. 146 fig. 24
*Caninia arundinacea* (Lonsd.) syn — Koker, 1924: 12-14, text-fig. 9-10b, pl. 1 fig. 7-7a, pl. 4 fig. 1-5

Material from the Permian near Basleo (specimen IPB Gerth.31b (pl. 146 (2) fig. 24 in Gerth, 1921a), 2 specimens THDKA.11755 (pl. 1 fig. 7-7a in Koker, 1924), THDKA.11756 (text-fig. 10-10b in Koker, 1924) [pl. 8 fig. 7, pl. 8 fig. 8 and pl. 8 fig. 9]), from the Upper Permian near Basleo (specimen THDKA.16075 (pl. 28 fig. 5a-c in Schindewolf, 1942, pl. 1 fig. 2-3 in Schindewolf, 1940) [pl. 8 fig. 10, pl. 8 fig. 11, pl. 8 fig. 12 and pl. 8 fig. 13]).

Remarks: Koker (1924) studied 104 specimens from "Wesleo", one from "Wesleo A" and seven specimens from Nefotassi. According to its label THDKA.11755 should be the specimen illustrated in pl. 1 fig. 7-7a in Koker (1924). However, no specimen was present and none of the specimens belonging to *Caninia arundinacea* that were found in the collection resembled the illustration. This specimen should be regarded as lost.

Genus *Carcinophyllum* Thomson & Nicholson, 1876
*Carcinophyllum wichmanni* (Rothpletz, 1892)

*Carcinophyllum (Carruthersella) Wichmanni* Rothpl. sp — Gerth, 1921a: 79-81, pl. 146 fig. 2-3, pl. 147 fig. 1-4
*Carcinophyllum Wichmanni* Rothpl. spec — Gerth, 1921b: 7, pl. 1 fig. 4-5

Material from the Permian near Basleo (sample IPB Gerth.21a-f (6 specimens, 3 thin sections) (pl. 146 fig. 2-3, pl. 147 fig. 1-4 in Gerth, 1921a)).

Remarks: Gerth (1921b) considered the specimen illustrated in pl. 1 fig. 2 in Martin (1883), one of the syntypes of *Lophophyllidium spinosum*, to belong to *Carcinophyllum wichmanni*. Both specimens illustrated in Gerth (1921b) are from Basleo (IPB). No material in NNM collection.

Genus *Clisiophyllum* Dana, 1846
*Clisiophyllum torquatum* Rothpletz, 1892

*Clisiophyllum torquatum* Rothpl — Gerth, 1921a: 78-79, pl. 146 fig. 1
*Wannerophyllum torquatum* (Rothplaetz 1892) — Von Schouppé & Stacul, 1955: 172-173, pl. 8 fig. 28

Material from the Permian of Sufa (specimen IPB Gerth.20 (pl. 146 fig. 1 in Gerth, 1921a)).

Remarks: The type material of Rothpletz (1892) is from Ajermati. Von Schouppé & Stacul (1955) selected the specimen illustrated on pl. 12 fig. 13 in Rothpletz (1892) as lectotype. It was found in Ajermati and, according to these authors, is stored at the Geological Institute, Utrecht. No material in NNM collection.

Genus *Dibunophyllum* Thomson & Nicholson, 1876
*Dibunophyllum rothpletzi* Gerth, 1921a

*Dibunophyllum Rothpletsi* spec. nov — Gerth, 1921a: 83-84, pl. 147 fig. 10-11
*Dibunophyllum Rothpletzi* nov. spec — Gerth, 1921b: 7
*Dibunophyllum rothpletzi* Gerth — Gerth, 1931a: 121

Syntypes from the Permian near Basleo (sample IPB Gerth.23a,b (2 specimens) (pl. 147 (3) fig. 10-11 in Gerth, 1921a), 5 specimens RGM.529815-529819), of Mandeo collected by Molengraaff during the 1911 Timor expedition (3 specimens RGM.529811-529813).

Remarks: Gerth (1921a) studied several specimens from Basleo (IPB and NNM) and two from both Bitauni (IPB) and Mandeo (NNM).

*Dibunophyllum tubulosum* Gerth, 1921a

*Dibunophyllum (Verbeekiella) tubulosum* spec. nov — Gerth, 1921a: 86-87, pl. 146 fig. 6, pl. 147 fig. 16-19
*Dibunophyllum tubulosum* Gerth — Gerth, 1931a: 121

Syntypes from the Permian near Basleo (sample IPB Gerth.25a-d (4 specimens, 2 thin sections) (pl. 146 fig. 6, pl. 147 fig. 16-19 in Gerth, 1921a), 10 specimens RGM.529836-529845), collected by Molengraaff during the 1911 Timor expedition (4 specimens RGM.529825 [pl. 8 fig. 14 and pl. 8 fig. 15], RGM. 529832-529834), of Bitauni collected by Molengraaff during the 1911 Timor expedition (specimen RGM. 529820 [pl. 9 fig. 1 and pl. 9 fig. 2]), of Mandeo collected by Molengraaff during the 1911 Timor expedition (2 specimens RGM.529823-529824), of Noil Nalien collected by Molengraaff during the 1911 Timor expedition (4 specimens RGM.529827-529830).

Remarks: Gerth (1921a) recognised two forms of *Dibunophyllum tubulosum*. Many specimens of both forms were found in Basleo and in Bitauni (IPB and NNM). No differentiation between those forms was made for the specimens from other localities.
The other figured specimens are treated under *Wannerophyllum elongata* and *Duplophyllum (Euryphyllum) robustum*.

Genus *Duplophyllum* Koker, 1924
Subgenus *Duplophyllum (Duplophyllum)* Koker, 1924
*Duplophyllum (Duplophyllum) calyculatum* (Koker, 1924)

*Zaphrentis calyculata* (nov. spec.) — Koker, 1924: 9, text-fig. 7-8
*Duplophyllum (Duplophyllum) calyculatum* (Koker 1924) — Von Schouppé & Stacul, 1959: 248-249, text-fig. 3, pl. 9 fig. 8

Lectotype from the Permian near Basleo (specimen THDKA.11741 (text-fig. 8 in Koker, 1924) [pl. 9 fig. 3, pl. 9 fig. 4 and pl. 9 fig. 5]).

Paralectotypes from the Permian near Basleo (specimen THDKA.11742 (text-fig. 7 in Koker, 1924) [pl. 9 fig. 6 and pl. 9 fig. 7]), collected by Jonker during the 1916 Timor expedition (2 specimens RGM. 525575-525576).

Syntypes from the Permian near Basleo collected by Jonker during the 1916 Timor expedition (5 specimens RGM.525578-525582).

Remarks: Koker (1924) used four typical specimens and five large ones with less clear buddings. A large specimen, which is figured in pl. 2 fig. 4-4a in Koker (1924), is transferred by Von Schouppé & Stacul (1959) to *Duplophyllum (Duplophyllum) zaphrentoides*. Von Schouppé & Stacul (1959) selected THDKA.11741 as lectotype for *Duplophyllum (Duplophyllum) calyculatum*.

Typespecies *Duplophyllum (Duplophyllum) zaphrentoides* (Koker, 1924)

*Duplophyllum* (gen. nov.) c. f. *zaphrentoïdes*. (Etheridge Jun.) — Koker, 1924: 22, pl. 8 fig. 2a *non* fig. 2
*Zaphrentis calyculata* — Koker, 1924: 47, pl. 2 fig. 4-4a
*Duplophyllum (Duplophyllum) zaphrentoides* Koker 1924 — Von Schouppé & Stacul, 1959: 242-246, text-fig. 1a-f, pl. 9 fig. 1-4

Syntype from the Permian near Basleo (specimen THDKA.11743 (pl. 2 fig. 4-4a in Koker, 1924) [pl. 9 fig. 8, pl. 9 fig. 9 and pl. 9 fig. 10]).

Remarks: Koker (1924) studied three specimens. Von Schouppé & Stacul (1959) selected the specimen figured in pl. 8 fig. 2a in Koker (1924) as lectotype.

Subgenus *Duplophyllum (Euryphyllum)* Hill, 1937
*Duplophyllum (Euryphyllum) cainodon* Von Schouppé & Stacul, 1959

*Zaphrentis cainodon* (De Kon.) — Koker, 1924: 9-10, pl. 1 fig. 1-2a, pl. 3 fig. 1-2, pl. 4 fig. 6
*Duplophyllum (Euryphyllum) cainodon* (Koker 1924) — Von Schouppé & Stacul, 1959: 258-262, text-fig. 7a-e, pl. 9 fig. 13, pl. 10 fig. 14-16

Holotype from the Permian near Basleo (specimen THDKA.11740 (pl. 1 fig. 2-2a in Koker, 1924) [pl. 9 fig. 11 and pl. 9 fig. 12]).

Additional material from the Permian near Basleo (specimen THDKA.11739 (pl. 1 fig. 1-1a in Koker, 1924) [pl. 9 fig. 13 and pl. 9 fig. 14]).

*Duplophyllum (Euryphyllum) robustum* (Von Schouppé & Stacul, 1959)

*Zaphrentis* c. f. *robusta* (De Kon.) — Koker, 1924: 10-11, pl. 2 fig. 5
*Duplophyllum (Euryphyllum) robustum* (Koker 1924) — Von Schouppé & Stacul, 1959: 262-265, text-fig. 8a-c, pl. 10 fig. 17

Holotype from the Permian near Basleo (specimen THDKA.16085 (4 fragments) (pl. 2 fig. 5 in Koker, 1924) [pl. 9 fig. 15, pl. 10 fig. 1 and pl. 10 fig. 2]).

Additional material from the Upper Permian-Lower Triassic: White Ammonitelimestone of Netu Kot (specimen THDKA.12831 (pl. 2 fig. 1-1a in Koker, 1924) [pl. 10 fig. 3, pl. 10 fig. 4 and pl. 10 fig. 5]).

Remarks: Von Schouppé & Stacul (1959) doubt the age of Triassic and consider it lower Upper Permian.

Genus *Endamplexus* Koker, 1924
Subgenus *Endamplexus (Endamplexus)* Koker, 1924
Typespecies *Endamplexus (Endamplexus) dentatus* Koker, 1924

*Endamplexus dentatus* (nov. spec.) — Koker, 1924: 32, text-fig. 18-19, pl. 5 fig. 12, pl. 6 fig. 2-4, 9, pl. 8 fig. 3
*Endamplexus (Endamplexus) dentatus* Koker 1924 — Von Schouppé & Stacul, 1959: 326-327, text-fig. 32a-d, pl. 12 fig. 56

Lectotype from the Permian near Basleo (specimen THDKA.11783 (text-fig. 18-19 in Koker, 1924) [pl. 10 fig. 6, pl. 10 fig. 7 and pl. 10 fig. 8]).

Paralectotypes from the Permian near Basleo (29 specimens RGM.529475, RGM.529477-529487, RGM. 529489-529501, THDKA.11779 (pl. 6 fig. 2 in Koker, 1924) [pl. 10 fig. 9, pl. 10 fig. 10 and pl. 10 fig. 11], THDKA.11780 (pl. 6 fig. 3 in Koker, 1924) [pl. 10 fig. 12 and pl. 10 fig. 13], THDKA.11781 (pl. 6 fig. 4 in Koker, 1924) [pl. 10 fig. 14 and pl. 10 fig. 15], THDKA.11782 (pl. 6 fig. 9 in Koker, 1924) [pl. 11 fig. 1 and pl. 11 fig. 2]).

Remarks: Koker (1924) studied 40 fragments. Von Schouppé & Stacul (1959) selected THDKA. 11783 as lectotype.

Genus *Endothecium* Koker, 1924
*Endothecium apertum* Koker, 1924

*Endothecium* (gen. nov.) *apertum* (spec. nov.) — Koker, 1924: 24, pl. 3 fig. 5-5a
Endothecium apertum Koker, 1924 — Niermann, 1975: 168-169, pl. 2 fig. 21

Lectotype from the Permian near Basleo (specimen THDKA.11770 (pl. 3 fig. 5 (5a?) in Koker, 1924) [pl. 11 fig. 3 and pl. 11 fig. 4]).

Remarks: Koker (1924) studied three specimens. Niermann (1975) wrote that THDKA.11770 is the holotype, which could apply as a lectotype selection. Other citations in Niermann (1975) must be checked to confirm this.

*Endothecium decipiens* Koker, 1924

*Endothecium* (gen. nov.) *decipiens* (spec. nov.) — Koker, 1924: 23, text-fig. 14, pl. 3 fig. 6, pl. 9 fig. 3
*Endothecium decipiens* Koker, 1924 — Niermann, 1975: 167-168

Lectotype from the Permian near Basleo (specimen THDKA.11771 (pl. 3 fig. 6 in Koker, 1924) [pl. 11 fig. 5 and pl. 11 fig. 6]).

Paralectotype from the Permian near Basleo (specimen THDKA.16074 [pl. 11 fig. 7 and pl. 11 fig. 8]).

Remarks: Koker (1924) studied three specimens, of which only two could be located at NNM.

Genus *Lithostrotion* Flemming, 1828
*Lithostrotion* sp.

*Lithostrotion*? spec. indet — Martin, 1883: 31, pl. 1 fig. 3-3a
*Lithostrotion* spec. indet. a — Martin, 1883: 37-38, pl. 1 fig. 4-4b
*Lithostrotion* spec. indet. b — Martin, 1883: 38-39, pl. 1 fig. 5-5a

Material from the Permian of Kali Mati near Kupang collected by C.F.A. Schneider (5 specimens RGM.11974 (pl. 1 fig. 4 in Martin, 1883) [pl. 11 fig. 9 and pl. 11 fig. 10], RGM.11975 (pl. 1 fig. 5 in Martin, 1883), RGM.299378 (pl. 1 fig. 4a in Martin, 1883) [pl. 11 fig. 11 and pl. 11 fig. 12], RGM.299379 (pl. 1 fig. 4b in Martin, 1883) [pl. 11 fig. 13 and pl. 11 fig. 14], RGM.299381 (pl. 1 fig. 5a in Martin, 1883) [pl. 11 fig. 15 and pl. 12 fig. 1]); "Rothes Kalktrümmergestein" along the Sungai Lojang collected by Macklot (specimen RGM.299377 (pl. 1 fig. 3-3a in Martin, 1883) [pl. 12 fig. 2]).

Remarks: RGM.11974 and RGM.11975 were illustrated by Martin (1883) as *Lithostrotion* sp., Gerth (1921a) transferred these two specimens to his new genus *Timorphyllum*. Gerda de Groot (in pencil in the RGM catalogue) assigned them to *Timorphyllum wanneri*, but they were not as such published and therefore the two specimens are dealt with directly below the genus name in the present catalogue.

Genus *Lonsdaleia* M'Coy, 1849
*Lonsdaleia molengraaffi* Gerth, 1921a

*Lonsdaleia Molengraaffi* spec. nov — Gerth, 1921a: 76-77, pl. 145 fig. 3-5
*Lonsdaleia Molengraaffi* nov. sp — Gerth, 1921b: 6
*Lonsdaleia molengraaffi* Gerth — Gerth, 1931a: 121
*Stylidophyllum Molengraaffi* (Gerth) — Gerth, 1938: 235

Holotype from the Permian of Noil Nunu collected by Molengraaff during the 1911 Timor expedition (specimen THDKA.16072 (3 fragments) (pl. 145 fig. 3 in Gerth, 1921a) [pl. 12 fig. 3], 2 thin sections RGM.529415 (pl. 145 fig. 5 in Gerth, 1921a) [pl. 12 fig. 4], RGM.529416 (pl. 145 fig. 4 in Gerth, 1921a) [pl. 12 fig. 5]).

*Lonsdaleia variabile* (Gerth, 1938)

*Stylidophyllum variabile* spec. nov — Gerth, 1938: 233-234, pl. 15 fig. 2-6

Syntypes from the Permian of the surroundings of Kyam collected by Yale University in 1932 (9 thin sections RGM.525538 (pl. 15 fig. 3 in Gerth, 1938) [pl. 12 fig. 6], RGM.525539 (pl. 15 fig. 4 in Gerth, 1938) [pl. 12 fig. 7], RGM.525540 (pl. 15 fig. 6 in Gerth, 1938) [pl. 12 fig. 8], RGM.525541 (pl. 15 fig. 2 in Gerth, 1938) [pl. 12 fig. 9], RGM.525542 (pl. 15 fig. 5 in Gerth, 1938) [pl. 12 fig. 10], RGM.525543 [pl. 12 fig. 11], RGM.525544 [pl. 12 fig. 12], RGM.525545 [pl. 12 fig. 13], RGM.525546 [pl. 12 fig. 14]).

Remarks: Gerth (1938) studied one large and several smaller fragments. The label of slide RGM. 525538 reads: "holotyp var. b."

Genus *Lonsdaleiastraea* Gerth, 1921a
*Lonsdaleiastraea typica* Gerth, 1938

*Lonsdaleiastraea typica* spec. nov — Gerth, 1938: 232-233, pl. 15 fig. 7

Syntypes from the Permian of the surroundings of Kyam collected by Yale University in 1932 (6 thin sections RGM.525532 (pl. 15 fig. 7 in Gerth, 1938) [pl. 12 fig. 15], RGM.525533 [pl. 13 fig. 1], RGM.525534 [pl. 13 fig. 2], RGM.525535 [pl. 13 fig. 3], RGM. 525536 [pl. 13 fig. 4], RGM.525537 [pl. 13 fig. 5]).

*Lonsdaleiastraea vinassai* Gerth, 1921a

*Lonsdaleiastraea Vinassai* spec. nov — Gerth, 1921a: 77-78, pl. 145 fig. 6-7
*Lonsdaleiastraea Vinassai* nov. spec — Gerth, 1921b: 6, pl. 1 fig. 2
*Lonsdaleiastraea vinassai* Gerth — Gerth, 1931a: 121
*Lonsdaleiastraea Vinassai* Gerth — Gerth, 1938: 235

Holotype from the Permian of Biwak Putain (thin section RGM.529409 (pl. 145 fig. 7 in Gerth, 1921a) [pl. 13 fig. 6]), collected by Molengraaff during the 1911 Timor expedition (specimen THDKA.11792 (7 fragments) (pl. 145 fig. 6-7 in Gerth, 1921a, pl. 1 fig. 2 in Gerth, 1921b) [pl. 13 fig. 7]).

Genus *Lophophyllidium* Grabau, 1928
*Lophophyllidium spinosum* (Martin, 1883)

*Lophophyllum spinosum* nov. spec — Martin, 1883: 23-25, pl. 1 fig. 2-2b
*Clisiophyllum (Lobophyllum) spinosum* Mart — Gerth, 1931a: 120
*Lophophyllidium spinosum* (Martin 1881) — Von Schouppé & Stacul, 1955: 182-185, pl. 8 fig. 36-40

Holotype from the Permian of Negri Weluli collected by Macklot (specimen RGM.11976 (pl. 1 fig. 2-2b in Martin, 1883)).

Genus *Paralleynia* Soshkina, 1936
*Paralleynia leptoseptata* Von Schouppé & Stacul, 1959

*Paralleynia leptoseptata* n. sp — Von Schouppé & Stacul, 1959: 341-342, text-fig. 40a-c, pl. 13 fig. 69

Paratypes from the Permian near Basleo (8 specimens RGM.529766-529773), collected by Jonker during the 1916 Timor expedition (specimen RGM. 529876 [pl. 4 fig. 1, pl. 4 fig. 2 and pl. 4 fig. 3]).

Remarks: Von Schouppé & Stacul (1959) selected Sé 281 (München) as holotype. Several syntypes of *Spineria (Spineria) diplochone* and *Amplexocarinia jonkeri* in Koker (1924) are paratypes of *Paralleynia leptoseptata*.

Genus *Pentaphyllum* De Koninck, 1872
Subgenus *Pentaphyllum (Tachylasma)* Grabau, 1922
*Pentaphyllum (Tachylasma) beyrichi* (Rothpletz, 1892)

*Plerophyllum Beyrichi* Rothpl. sp — Gerth, 1921a: 88-89, textfig. 5, pl. 146 fig. 7-8
*Plerophyllum Beyrichi* Rothpl. spec — Gerth, 1921b: 8, pl. 1 fig. 9
*Plerophyllum Beyrichi* (Rothpl.) — Koker, 1924: 19
*Plerophyllum Beyrichi typicum* — Koker, 1924: 19
*Pentaphyllum (Tachylasma) beyrichi* (Rothpl., 1892) — Niermann, 1975: 181-182, pl. 2 fig. 28a-c

Material from the Permian near Basleo (specimen RGM.525655 [pl. 13 fig. 8]), of Kali Mati near Kupang (sample IPB Gerth.26a,b (2 specimens) (textfig. 5, pl. 146 fig. 7-8 in Gerth, 1921a)).

Remarks: The specimen figured in Gerth (1921b) is also figured at pl. 146 fig. 7 in Gerth (1921a). Niermann (1975) synonymised *Pentaphyllum (Tachylasma) timorense typicum* with *Pentaphyllum (Tachylasma) beyrichi*.

### *Pentaphyllum (Tachylasma) beyrichi* var. *elongatum* Koker, 1924

*Plerophyllum Beyrichi elongatum* (var. nov.) — Koker, 1924: 19

Syntypes probably of Basleo A collected by Jonker during the 1916 Timor expedition (specimen RGM.529722 [pl. 13 fig. 9]), from the Permian near Basleo (8 specimens RGM.525655 [pl. 13 fig. 8], RGM.525658 [pl. 13 fig. 10, pl. 13 fig. 11 and pl. 13 fig. 12], RGM.525659, RGM.529629-529630, RGM. 529724-529726), collected by Jonker during the 1916 Timor expedition (2 specimens RGM.525656 [pl. 13 fig. 13, pl. 13 fig. 14 and pl. 13 fig. 15], RGM.525657 [pl. 14 fig. 1 and pl. 14 fig. 2]).

Additional material from the Permian near Basleo (2 specimens RGM.529720-529721).

Remarks: Koker (1924) studied 31 specimens. It is not certain whether specimen RGM.529722 belongs to the typeseries of *Pentaphyllum (Tachylasma) beyrichi* var. *elongatum*. The labels do not present any clues nor does it present the locality. The number on one of the labels suggest that it is material collected by Koker. The locality is now inferred from the presumption that this material belongs to the typeseries.

### *Pentaphyllum (Tachylasma) beyrichi* var. *tabulatum* Koker, 1924

Plerophyllum Beyrichi tabulatum (nov. var.) — Koker, 1924: 19, pl. 5 fig. 2-2a

Syntypes from the Permian probably near Basleo (12 specimens RGM.529708-529717, THDKA. 11763 (pl. 5 fig. 2-2a in Koker, 1924) [pl. 14 fig. 3 and pl. 14 fig. 4], THDKA.11764 [pl. 14 fig. 5 and pl. 14 fig. 6]).

Remarks: Koker (1924) studied 16 specimens. Only 14 have been located in NNM.

### *Pentaphyllum (Tachylasma) beyrichi beyrichi* (Rothpletz, 1892)

*Pentaphyllum (Tachylasma) beyrichi beyrichi* (Rothpl., 1892) — Niermann, 1975: 183-185, pl. 2 fig 28a-c

Material from the Permian near Basleo collected by Jonker during the 1916 Timor expedition (6 specimens RGM.525649-525654).

### *Pentaphyllum (Tachylasma) densum* Hill, 1937

*Pentaphyllum (Tachylasma) densum* Hill, 1937 — Niermann, 1975: 190-191, pl. 3 fig. 3a-d

Material from the Permian near Basleo (specimen RGM.525659).

### *Pentaphyllum (Tachylasma) gerthi* Soshkina, 1941

Tachylasma gerthi — Soshkina, 1941: ???

Holotype from the Permian near Basleo collected by Molengraaff during the 1911 Timor expedition (specimen THDKA.11772 (2 fragments) (pl. 146 (2) fig. 20-21 in Gerth, 1921a) [pl. 14 fig. 7, pl. 14 fig. 8 and pl. 14 fig. 9]).

### *Pentaphyllum (Tachylasma) isoseptatum* (Koker, 1924)

*Plerophyllum isoseptatum* (spec. nov.) — Koker, 1924: 19-20, text-fig. 12

*Pentaphyllum (Tachylasma) isoseptatum* (Koker, 1924) — Niermann, 1975: 180-181, pl. 1 fig. 7, pl. 2 fig. 27a-c

Syntypes from the Permian probably near Basleo (28 specimens RGM.529728-529755), collected by Jonker during the 1916 Timor expedition (2 specimens RGM.525660 [pl. 14 fig. 10], RGM.525661 [pl. 14 fig. 11]).

Remarks: Koker (1924) studied 40 specimens.

### *Pentaphyllum (Tachylasma) makrodeuterum* Niermann, 1975

*Pentaphyllum (Tachylasma) makrodeuterum* n. sp — Niermann, 1975: 186-187, pl. 3 fig. 1a-b, pl. 8 fig. 9

Paratype from the Permian near Basleo (specimen RGM.525658 [pl. 13 fig. 10, pl. 13 fig. 11 and pl. 13 fig. 12]).

Remarks: Holotype is Sé 630 supposedly stored in München.

### *Pentaphyllum (Tachylasma) timorense* (Gerth, 1919)

*Plerophyllum timorense* nov. sp — Gerth, 1919: 211,212, fig. 10

*Plerophyllum timorense* spec. nov — Gerth, 1921a: 89-90, textfig. 6-7, pl. 146 fig. 9-12, pl. 147 fig. 20; Gerth, 1921b: 8, pl. 1 fig. 10

*Plerophyllum timorense* (Gerth) — Koker, 1924: 17

*Tachylasma timorense* Gerth — Gerth, 1931a: 121

*Pentaphyllum (Tachylasma) timorense* Gerth — Schindewolf, 1942: 190, text-fig. 80, pl. 31 fig. 2a-c

Lectotype from the Permian near Basleo (sample IPB Gerth.27a-g (1 specimen, 3 thin sections, 11 fragments) (text-fig. 80, pl. 31 fig. 2a-c in Schindewolf, 1942, pl. 146 (2) fig. 9-12, pl. 147 (3) fig. 20, text-fig. 6 in Gerth, 1921a)).

Syntypes from the Permian of Apna collected by Molengraaff during the 1911 Timor expedition (6 specimens RGM.529529-529534), near Basleo (12 specimens RGM.529549 (2 fragments), RGM.529551-529560, RGM.532100), collected by Molengraaff during the 1911 Timor expedition (2 specimens RGM.529539 (2 fragments) [pl. 14 fig. 12, pl. 14 fig. 13 and pl. 14 fig. 14], RGM.529540 [pl. 14 fig. 15 and pl. 15 fig. 1]), collected by Jonker during the 1916 Timor expedition (6 specimens RGM.525649-525654), of Bitauni (30 specimens RGM.529542-529548, RGM.529563-529585), of Mandeo collected by Molengraaff during the 1911 Timor expedition (2 specimens RGM.529536-529537), between Kaoneke and Nilulet collected by Molengraaff during the 1911 Timor expedition (specimen RGM.529538 [pl. 15 fig. 2]), from the Upper Permian near Fatu Nikat collected by Molengraaff in November, 1911 (specimen RGM.529527 [pl. 15 fig. 3]).

Remarks: We assume that the studied material by Gerth (1919) is the same as that by Gerth (1921a). Text-fig. 7 in Gerth (1921a) is the same as text-fig. 10 in Gerth (1919). The specimen illustrated in pl. 1 fig. 10 in Gerth (1921b) is the same as figured in pl. 146 fig. 9 in Gerth (1921a), which should be stored at IPB.

*Pentaphyllum (Tachylasma) timorense* var. *calyculat* Koker, 1924

*Plerophyllum timorense calyculatum* (nov. var.) — Koker, 1924: 18, pl. 1 fig. 6-6a

Holotype from the Permian near Basleo (specimen THDKA.11766 (pl. 1 fig. 6-6a in Koker, 1924) [pl. 15 fig. 4, pl. 15 fig. 5 and pl. 15 fig. 6]).

*Pentaphyllum (Tachylasma) timorense* var. *cylindric* Koker, 1924

*Plerophyllum timorense cylindricum* (nov. var.) — Koker, 1924: 18, pl. 5 fig. 1, pl. 6 fig. 8

Syntypes from the Permian near Basleo (2 specimens RGM.529854 [pl. 15 fig. 7, pl. 15 fig. 8 and pl. 15 fig. 9], THDKA.11767 (pl. 5 fig. 1 in Koker, 1924) [pl. 15 fig. 10 and pl. 15 fig. 11]).

*Pentaphyllum (Tachylasma) timorense* var. *irregular* Koker, 1924

*Plerophyllum timorense irregulare* (nov. var.) — Koker, 1924: 18, pl. 5 fig. 3-3a

Syntypes from the Permian near Basleo (2 specimens RGM.529849 (3 fragments) (pl. 5 fig. 3a in Koker, 1924) [pl. 15 fig. 12 and pl. 15 fig. 13], THDKA.11768 (pl. 5 fig. 3 in Koker, 1924) [pl. 15 fig. 14 and pl. 15 fig. 15]).

*Pentaphyllum (Tachylasma) timorense typicum* Koker, 1924

*Plerophyllum timorense typicum* — Koker, 1924: 17, text-fig. 22, pl. 6 fig. 7, pl. 8 fig. 1, pl. 9 fig. 2

Syntypes from the Permian near Basleo (182 specimens RGM.532181-532362), collected by Jonker during the 1916 Timor expedition (specimen RGM.529561 (2 fragments) [pl. 16 fig. 1]).

Remarks: Koker (1924) studied 598 specimens from Basleo, two specimens from Tonino I, 20 poorly preserved fragments from Bitauni, eight large specimens from Tuniun Enno and several small and large, badly preserved fragments from other localities which were not mentioned by name.

Genus *Pleramplexus* Schindewolf, 1940

*Pleramplexus dissimilis* Schindewolf, 1940

*Pleramplexus dissimilis* n. gen. n. sp — Schindewolf, 1940: 491, 401, pl. 1 fig. 2-3

*Pleramplexus dissimilis* Schdwf — Schindewolf, 1942: 165-167, text-fig. 70a-b, pl. 28 fig. 5a-c

Holotype from the Upper Permian near Basleo (specimen THDKA.16075 (pl. 28 fig. 5a-c in Schindewolf, 1942, pl. 1 fig. 2-3 in Schindewolf, 1940) [pl. 8 fig. 10, pl. 8 fig. 11, pl. 8 fig. 12 and pl. 8 fig. 13]).

*Pleramplexus grandis* Niermann, 1975

*Pleramplexus grandis* n. sp — Niermann, 1975: 164-165, pl. 2 fig. 17, pl. 7 fig. 5-6

Holotype from the Permian near Basleo collected by Jonker during the 1916 Timor expedition (specimen RGM.525645 (2 fragments) (pl. 7 fig. 5 in Niermann, 1975) [pl. 16 fig. 2 and pl. 16 fig. 3]).

Paratypes from the Permian near Basleo collected by Jonker during the 1916 Timor expedition (2 specimens RGM.525646 [pl. 16 fig. 4, pl. 16 fig. 5 and pl. 16 fig. 6], RGM.525647 [pl. 16 fig. 7 and pl. 16 fig. 8]).

Remarks: Niermann (1975) studied seven specimens from collection Wanner from "Basleo" and three fragments from Koker's material from "Wesleo".

*Pleramplexus similis* Schindewolf, 1940

*Pleramplexus similis* Schdwf., 1940 — Niermann, 1975: 166-167, pl. 2 fig. 18

Material from the Permian near Basleo (specimen THDKA.11763 (pl. 5 fig. 2-2a in Koker, 1924) [pl. 14 fig. 3 and pl. 14 fig. 4]).

Genus *Plerophyllum* Hinde, 1890
*Plerophyllum bitaunense* Koker, 1924

*Plerophyllum bitaunense* (nov. spec.) — Koker, 1924: 18, pl. 3 fig. 3

Syntypes from the Permian near Basleo collected by Jonker during the 1916 Timor expedition (specimen THDKA.11765 (pl. 3 fig. 3 in Koker, 1924) [pl. 16 fig. 9 and pl. 16 fig. 10]), of Bitauni (73 specimens RGM.529632-529637, RGM.529639-529662, RGM.529664-529706).

Remarks: Koker (1924) studied 25 specimens from Basleo and 45 from Bitauni. Sample RGM. 529638 (=specimens RGM.529632-529637, 529639-529662) contains 30 specimens and a label with "sp. nov" specifically written on the label and a number of specimens that were sent to Schouppé to be studied, while sample RGM.529663 (=specimens RGM. 529664-529706) contains 43 specimens. It is not certain which sample should be considered to belong to the typeseries, so for now both provisionally are regarded to belong to the typeseries.

*Plerophyllum radiciforme* Gerth, 1919

*Plerophyllum radiciforme* nov. sp — Gerth, 1919: 204, fig. 4
*Plerophyllum radiciforme* spec. nov — Gerth, 1921a: 92-93, textfig. 8, pl. 146 fig. 15-18; Gerth, 1921b: 8
*Timorosmilia radiciforme* (Gerth) — Gerth, 1931a: 121

Syntypes from the Permian near Basleo (12 specimens RGM.529587-529596, RGM.529598-529599), of Oilmasi (sample IPB Gerth.29a,b (2 specimens) (text-fig. 8, pl. 146 (2) fig. 15 in Gerth, 1921a, text-fig. 4 in Gerth, 1919)).

Remarks: We assume that the studied material by Gerth (1919) is the same as that by Gerth (1921a). Some syntypes should be at IPB. The suffix 'spec. nov.' in Gerth (1921a) and in Gerth (1921b) is incorrect. Gerth (1921a) studied several specimens from Basleo, that should be stored at IPB or at NNM, one specimen from each Apna and Oilmasi, the latter figured in textfig. 8 in Gerth (1921a) (= same figure as text-fig. 4 in Gerth (1919)). The specimen illustrated on pl. 146 fig. 16-18 of Gerth (1921a) is from Basleo and should be stored at IPB, but was not mentioned in the list send by M. Kunz in November, 2005. Niermann (1975) regarded *Timorosmilia radiciforme* (Gerth, 1919) sensu Koker (1924) as a different species from *Plerophyllum radiciforme* and named it *Ufimia radiciformis*.

*Plerophyllum weberi* Gerth, 1921a

*Plerophyllum Weberi* spec. nov — Gerth, 1921a: 93, pl. 146 fig. 19, pl. 147 fig. 21; Gerth, 1921b: 8
*Plerophyllum Weberi* (Gerth) — Koker, 1924: 21
*Plerophyllum weberi* Gerth — Gerth, 1931a: 121

Syntype from the Permian of Hatu Dame (sample IPB Gerth.30 (2 specimens) (pl. 146 fig. 19, pl. 147 fig. 21 in Gerth, 1921a)).

Remarks: Gerth (1921a) studied seven specimens.

Genus *Polycoelia* King, 1850
Subgenus *Polycoelia (Polycoelia)* King, 1850
*Polycoelia (Polycoelia) angusta* Rothpletz, 1892

*Polycoelia angusta* Rothpl — Gerth, 1921a: 94-95, textfig. 9-10, pl. 146 fig. 20-21
*Polycoelia (Polycoelia) angusta* Rothpl., 1892 — Niermann, 1975: 144-145

Material from the Permian near Basleo (sample IPB Gerth.31 (4 specimens) (textfig. 9-10 in Gerth, 1921a)), collected by Molengraaff during the 1911 Timor expedition (specimen THDKA.11772 (2 fragments) (pl. 146 (2) fig. 20-21 in Gerth, 1921a) [pl. 14 fig. 7, pl. 14 fig. 8 and pl. 14 fig. 9]).

Remarks: Niermann (1975) synonymised *Polycoelia multiseptata* with *Polycoelia (Polycoelia) angusta*.

*Polycoelia (Polycoelia) tenuis* (Koker, 1924)

*Plerophyllum tenue* (spec. nov.) — Koker, 1924: 20-21, pl. 3 fig. 4-4a
*Polycoelia tenuis* (Koker, 1924, S. 20, Taf. 3 Fig. 4, 4a) — Schindewolf, 1942: 66

Syntype from the Permian near Basleo (specimen RGM.529526 (pl. 3 fig. 4-4a in Koker, 1924)).

Remarks: Koker (1924) studied also five specimens from Noil Ekad, four and a juvenile specimen from Noil Simaam, eight specimens from Bitauni and one from Nefotassi. Specimen RGM.529526 is lost since before September 17th, 1958.

Genus *Prosmilia* Koker, 1924
*Prosmilia cyathophylloides* (Gerth, 1921a)
*Prosmilia compressa* Koker, 1924 (junior synonym of *Prosmilia cyathophylloides*)

*Prosmilia* (gen. nov.) *compressa* (spec. nov.) — Koker, 1924: 30, pl. 2 fig. 6, pl. 5 fig. 4-4a, pl. 10 fig. 8

Syntypes from the Permian near Basleo (8 specimens RGM.529775-529780, RGM.529809 (pl. 22 fig. 4a in Schindewolf, 1942, pl. 5 fig. 4-4a in Koker, 1924) [pl. 16 fig. 11, pl. 16 fig. 12 and pl. 16 fig. 13], THDKA.11784 (pl. 2 fig. 6 in Koker, 1924) [pl. 16 fig. 14 and pl. 16 fig. 15]).

Remarks: Koker (1924) studied 14 specimens. Only nine specimens were located at NNM.

Genus *Spineria* Von Schouppé & Stacul, 1959
Subgenus *Spineria (Cystina)* Von Schouppé & Stacul, 1959
Typespecies *Spineria (Cystina) ultima* (Koker, 1924)

*Cystiphyllum ultimum* (nov. spec.) — Koker, 1924: 25-26, pl. 6 fig. 1
*Spineria (Cystina) ultima* (Koker 1924) — Von Schouppé & Stacul, 1959: 334-336, text-fig. 37a-d, pl. 13 fig. 63-64

Lectotype from the Permian near Basleo (specimen THDKA.11776 (pl. 6 fig. 1 in Koker, 1924)).

Syntypes from the Permian of Nefotassi (3 specimens RGM.529790-529791, THDKA.11777 (text-fig. 15 in Koker, 1924) [pl. 17 fig. 1 and pl. 17 fig. 2]).

Additional material from the Permian near Basleo collected by Jonker during the 1916 Timor expedition (8 specimens RGM.529781-529788).

Remarks: Koker (1924) studied 15 specimens from Basleo, eight of which she considered to be uncertain and are therefore excluded from the typeseries. She also studied one 10 cm long fragment, two fragments from one specimen and four smaller fragments from Bitauni. Von Schouppé & Stacul (1959) selected THDKA.11776 as lectotype.

*Spineria (Cystina) uniformis* Von Schouppé & Stacul, 1959

*Cystiphyllum ultimum* (spec. nov.) — Koker, 1924: 26, text-fig. 15
Cystiphyllum diplochone (spec. nov.) — Koker, 1924: pl. 6 fig. 5-5a
*Spineria (Cystina) uniformis* n. sp — Von Schouppé & Stacul, 1959: 336-337, text-fig. 38a-c, pl. 13 fig. 65

Paratype from the Permian near Basleo (specimen THDKA.11773 (pl. 6 fig. 5-5a in Koker, 1924)).

Additional material from the Permian of Nefotassi (specimen THDKA.11777 (text-fig. 15 in Koker, 1924) [pl. 17 fig. 1 and pl. 17 fig. 2]).

Remarks: Holotype is Sé 274, supposedly stored in München.

Subgenus *Spineria (Spineria)* Von Schouppé & Stacul, 1959
Typespecies *Spineria (Spineria) diplochone* (Koker, 1924)

*Cystiphyllum diplochone* (nov. spec.) — Koker, 1924: 26, text-fig. 16, pl. 6 fig. 6-6a
*Spineria (Spineria) diplochone* (Koker 1924) — Von Schouppé & Stacul, 1959: 333-334, text-fig. 36a-b, pl. 13 fig. 60-62

Lectotype from the Permian near Basleo (specimen THDKA.11775 (text-fig. 16. in Koker, 1924) [pl. 17 fig. 3]).

Paralectotype from the Permian near Basleo (specimen THDKA.11774 (pl. 6 fig. 6-6a in Koker, 1924) [pl. 17 fig. 4 and pl. 17 fig. 5]).

Syntype from the Permian near Basleo (specimen RGM.529764).

Remarks: Koker (1924) studied five specimens. Von Schouppé & Stacul (1959) selected THDKA. 11775 as lectotype. They considered THDKA.11773, one of the syntypes of *Spineria (Spineria) diplochone*, to be *Spineria (Cystina) uniformis*.

Genus *Timorphyllum* Gerth, 1921a

*Timorphyllum* gen. nov — Gerth, 1921a: 69-70; Gerth, 1921b: 4-5
*Timorphyllum* Gerth 1921 — Von Schouppé & Stacul, 1955: 151-153

Material from the Permian of Kali Mati near Kupang collected by C.F.A. Schneider (2 specimens RGM.11974 (pl. 1 fig. 4 in Martin, 1883) [pl. 11 fig. 9 and pl. 11 fig. 10], RGM.11975 (pl. 1 fig. 5 in Martin, 1883)).

Remarks: RGM.11974 and RGM.11975 were illustrated by Martin (1883) as *Lithostrotion* sp., Gerth (1921a) transferred these two specimens to his new genus *Timorphyllum*. Gerda de Groot (in pencil in the RGM catalogue) assigned them to *Timorphyllum wanneri*, but they were not as such published and therefore the two specimens are dealt with directly below the genus name in the present catalogue.

*Timorphyllum wanneri* Gerth, 1921a

*Timorphyllum Wanneri* spec. nov — Gerth, 1921a: 70, textfig. 1, pl. 145 fig. 8-10
*Timorphyllum Wanneri* nov. sp — Gerth, 1921b: 5, pl. 1 fig. 3
*Timorphyllum wanneri* Gerth — Gerth, 1931a: 120

Syntypes from the Permian of Apna collected by Molengraaff during the 1911 Timor expedition (3 specimens RGM.529914-529916), near Basleo (sample IPB Gerth.16a-c (3 specimens, 2 fragments) (textfig. 1, pl. 145, fig. 8-10 in Gerth, 1921a), 1727 specimens RGM.529518 [pl. 17 fig. 6 and pl. 17 fig. 7], RGM.529519 [pl. 17 fig. 8 and pl. 17 fig. 9], RGM. 529520 [pl. 17 fig. 10 and pl. 17 fig. 11], RGM.529521 [pl. 17 fig. 12 and pl. 17 fig. 13], RGM.529522 [pl. 17 fig. 14 and pl. 17 fig. 15], RGM.529523 [pl. 18 fig. 1 and pl. 18 fig. 2], RGM.529524 [pl. 18 fig. 3, pl. 18 fig. 4 and pl. 18 fig. 5], RGM.529525 [pl. 18 fig. 6 and pl. 18 fig. 7], RGM.530381-532099), collected by Molengraaff during the 1911 Timor expedition (7 specimens RGM.529918-529924), of Bitauni collected by Molengraaff during the 1911 Timor expedition (24 specimens RGM.532102-532125), of Mandeo (2 specimens RGM.529911-529912).

Remarks: Typespecimens from near Bitauni, near Basleo, from Noil Asi (No. 554) and from the surroundings of Baung are supposed to be stored at IPB.

*Timorphyllum wanneri* var. *ajermatiensis* Gerth, 1921a

*Timorphyllum Wanneri* var. *ajermatiensis* var. nov — Gerth, 1921a: 72
*Timorphyllum Wanneri* var. *Ajermatensis* var. nov — Gerth, 1921b: 5
*Timorphyllum wanneri* var. *ajermatensis* Gerth — Gerth, 1931a: 120

Syntype from the Permian of Kali Mati near Kupang (sample IPB Gerth.18 (7 specimens)).

Remarks: No material in NNM collections.

*Timorphyllum wanneri variabile* Gerth, 1921a

*Timorphyllum Wanneri* var. *variabilis* var. nov — Gerth, 1921a: 71-72, textfig. 2-4, pl. 145 fig. 11-12; Gerth, 1921b: 5
*Timorphyllum wanneri* var. *variabilis* Gerth — Gerth, 1931a: 120
*Timorphyllum wanneri variabile* Gerth 1921 — Von Schouppé & Stacul, 1955: 156-157, pl. 7 fig. 13

Paralectotypes from the Permian near Basleo collected by Molengraaff during the 1911 Timor expedition (10 specimens RGM.529932-529940, RGM. 532101), of Noil Nalien (specimen RGM.529925).

Syntype from the Permian near Basleo (sample IPB Gerth.17a-e (5 specimens, 1 thin section) (textfig. 2-4, pl. 145 fig. 11-12 in Gerth, 1921a)).

Remarks: Gerth (1921a) studied an unknown number of specimens from Basleo, Bitauni, Sufa and Matanibaki and three specimens from Noil Nalien. The latter should be stored at NNM but were not retrieved. Von Schouppé & Stacul (1959) selected the specimen illustrated in text-fig. 2 of Gerth (1921a), that should be stored at IPB, as lectotype.

*Timorphyllum wanneri wanneri* Gerth, 1921a

*Timorphyllum wanneri wanneri* Gerth 1921 — Von Schouppé & Stacul, 1955: 153-156, pl. 7 fig. 9-12

Paralectotypes from the Permian near Basleo (1728 specimens RGM.529518 [pl. 17 fig. 6 and pl. 17 fig. 7], RGM.529519 [pl. 17 fig. 8 and pl. 17 fig. 9], RGM.529520 [pl. 17 fig. 10 and pl. 17 fig. 11], RGM. 529521 [pl. 17 fig. 12 and pl. 17 fig. 13], RGM.529522 [pl. 17 fig. 14 and pl. 17 fig. 15], RGM.529523 [pl. 18 fig. 1 and pl. 18 fig. 2], RGM.529524 [pl. 18 fig. 3, pl. 18 fig. 4 and pl. 18 fig. 5], RGM.529525 [pl. 18 fig. 6 and pl. 18 fig. 7], RGM.530381-532100).

Remarks: Von Schouppé & Stacul (1959) selected the specimen figured in pl. 145 fig. 8 in Gerth (1921a), that should be stored at IPB, as lectotype.

Genus *Ufimia* Stuckenberg, 1895
*Ufimia radiciformis* Niermann, 1975

*Timorosmilia* (gen. nov.) *radiciforme* — Koker, 1924: 30-31, 41, text-fig. 24
*Ufimia radiciformis* (Koker, 1924) — Niermann, 1975: 157-158

Material near Basleo collected by Jonker during the 1916 Timor expedition (specimen THDKA.11790 (text-fig. 24 in Koker, 1924) [pl. 18 fig. 8 and pl. 18 fig. 9]), from the Permian near Basleo (12 specimens RGM.529587-529596, RGM.529598-529599).

Remarks: Niermann (1975) regarded *Timorosmilia radiciforme* (Gerth (1919)) sensu Koker (1924) as a distinct species from *Plerophyllum radiciforme* and named it *Ufimia radiciformis*. Textfig. 24 in Koker (1924) must have been drawn after a thin section. For now there has not been found any thin section belonging to specimen THDKA.11790.

*Ufimia radiciformis defecta* Niermann, 1975

*Ufimia radiciformis defecta* n. subsp — Niermann, 1975: 159, pl. 2 fig. 20a-b, pl. 7 fig. 1-2

Paratypes from the Permian near Basleo collected by Jonker during the 1916 Timor expedition (2 specimens RGM.529473 [pl. 18 fig. 10 and pl. 18 fig. 11], RGM.529474 [pl. 18 fig. 12 and pl. 18 fig. 13]).

Remarks: Holotype is Sé 430 in München. Niermann (1975) studied six specimens.

*Ufimia radiciformis radiciformis* (Koker, 1924)

*Ufimia radiciformis radiciformis* (Koker, 1924) — Niermann, 1975: 158-159, pl. 1 fig. 6, pl. 2 fig. 19

Holotype near Basleo collected by Jonker during the 1916 Timor expedition (specimen THDKA. 11790 (text-fig. 24 in Koker, 1924) [pl. 18 fig. 8 and pl. 18 fig. 9]).

Paratypes from the Permian near Basleo collected by Jonker during the 1916 Timor expedition (2 specimens RGM.529471 [pl. 18 fig. 14 and pl. 18 fig. 15], RGM.529472 [pl. 19 fig. 1]).

Remarks: Niermann (1975) studied seven specimens. Textfig. 24 in Koker (1924) must have been drawn after a thin section. For now there has not been found any thin section belonging to specimen THDKA.11790.

Genus *Verbeekiella* Penecke, 1908b
*Verbeekiella australis* (Von Beyrich, 1865)

*Dibunophyllum (Verbeekiella)australe* Beyr — Gerth, 1921a: 84-86, pl. 146 fig. 4-5, pl. 147 fig 12-14
*Dibunophyllum (Verbeekiella) australe* Beyr. spec — Gerth, 1921b: 7, pl. 1 fig. 7
*Verbeekiella australis* (Beirich 1865) — Von Schouppé & Stacul, 1955: 143-147, text-fig. 1a-d, pl. 7 fig. 1-3

Material from the Permian near Basleo (sample IPB Gerth.24a-d (4 specimens, 1 thin section) (pl. 146 (2) fig. 4, pl. 147 (3) fig. 12-14 in Gerth, 1921a, pl. 1 fig. 7 in Gerth, 1921b)), collected by Molengraaff during the 1911 Timor expedition (specimen THDKA.11795 (pl. 146 (2) fig. 5 in Gerth, 1921a) [pl. 19 fig. 2 and pl. 19 fig. 3]).

Remarks: Plate 2 fig. 7 in Gerth (1921b) is the same as pl. 147 (3) fig. 12 in Gerth (1921a). Von Schouppé & Stacul (1955) regarded *Verbeekiella permica* as a junior synonym of *Verbeekiella australis*.

*Verbeekiella permica* (Penecke, 1908a) (junior synonym of *Verbeekiella australis*)

*Verbeekia permica*, sp. nov — Penecke, 1908a: 657-659, 660, text-fig. 1-2

Holotype from the Permian of Kali Mati near Kupang (specimen THDKA.11794 [pl. 19 fig. 4 and pl. 19 fig. 5], 2 thin sections RGM.529422 (pl. 147 fig. 15 in Gerth, 1921a, text-fig. 1-2 in Penecke, 1908a) [pl. 19 fig. 6], RGM.529423 (text-fig. 2 in Penecke, 1908a) [pl. 19 fig. 7]).

*Verbeekiella australis* forma *elongata* Gerth, 1921a

*D. australe* forma *elongata* — Gerth, 1921a: 85, pl. 145 fig. 14, pl. 147 fig. 15
*Dibunophyllum (Verbeekiella) australe* Beyr. spec. forma *elongata* — Gerth, 1921b: pl. 1 fig. 8

Material from the Permian near Basleo (specimen THDKA.11796 (pl. 145 (1) fig. 14 in Gerth, 1921a, pl. 1fig. 8 in Gerth, 1921b) [pl. 19 fig. 8 and pl. 19 fig. 9]), of Kali Mati near Kupang (thin section RGM.529422 (pl. 147 fig. 15 in Gerth, 1921a, text-fig. 1-2 in Penecke, 1908a) [pl. 19 fig. 6]).

Remarks: The specimen illustrated in Gerth (1921b) should be stored at IPB.

Genus *Wannerophyllum* Von Schouppé & Stacul, 1955
Typespecies *Wannerophyllum cristatum* Gerth, 1921a

*Carcinophyllum cristatum* spec. nov — Gerth, 1921a: 82-83, pl. 145 fig. 13, pl. 147 fig. 5-9; Gerth, 1921b: 7, pl. 1 fig. 6
*Carcinophyllum cristatum* Gerth — Gerth, 1931a: 120
*Wannerophyllun cristatum* (Gerth 1921) — Von Schouppé & Stacul, 1955: 162-167, text-fig. 3a-c, pl. 7 fig. 17-22

Lectotype from the Permian near Basleo collected by Molengraaff during the 1911 Timor expedition (specimen THDKA.11793 (2 fragments) (pl. 147(3) fig. 7-8 in Gerth, 1921a) [pl. 19 fig. 10, pl. 19 fig. 11 and pl. 19 fig. 12]).

Paralectotypes from the Permian near Basleo (specimen RGM.529424 [pl. 19 fig. 13 and pl. 19 fig. 14]), of Bitauni (44 specimens RGM.529425, RGM. 529427-529469).

Syntype from the Permian near Basleo (sample IPB Gerth.22a,b,c (5 specimens, 2 thin sections) (pl. 145 (1) fig. 13, pl. 147 (3) fig. 5-6, 9 in Gerth, 1921a)).

Remarks: The other figures in Gerth (1921a) are from specimens from Basleo, that should be stored at IPB. The figure in Gerth (1921b) is the same as pl. 147 fig. 5 in Gerth (1921a). Von Schouppé & Stacul (1959) selected the lectotype.

*Wannerophyllum tubulosum* (Gerth, 1921a)

*D. tubulosum* forma *robusta* — Gerth, 1921a: 86-87, pl. 146 fig. 6, pl. 147 fig. 18
*Wannerophyllum tubulosum* (Gerth 1921) — Von Schouppé & Stacul, 1955: 167-171, text-fig. 4, 5a-e, pl. 8 fig. 23

Paralectotype from the Permian of Bitauni collected by Molengraaff during the 1911 Timor expedition (specimen RGM.529821 [pl. 19 fig. 15 and pl. 20 fig. 1]).

Remarks: The specimens illustrated in Gerth (1921a) are from Basleo and should be stored at IPB. Von Schouppé & Stacul (1959) selected the specimen illustrated in pl. 147 fig. 18 in Gerth (1921a) as lectotype.

Genus *Wentzelella* Grabau, 1932
*Wentzelella timorica* (Gerth, 1921a)

*Lonsdaleia timorica* spec. nov — Gerth, 1921a: 74-76, pl. 145 fig. 1-2
*Lonsdaleia timorica* nov. spec — Gerth, 1921b: 6, pl. 1 fig. 1
*Lonsdaleia timorica* Gerth — Gerth, 1931a: 121
*Wentzelella timorica* (Gerth) — Gerth, 1938: 235

Syntypes from the Permian of Bonleo-Neneas (specimen IPB Gerth.19 (pl. 145 (1) fig. 1 in Gerth, 1921a, pl. 1 fig. 1 in Gerth, 1921b)), from the Permian-Triassic of the profile in Triassic in Oi Ekar near Chinese building collected by Molengraaff in November, 1911 (specimen THDKA.11791 (pl. 145 fig. 2 in Gerth, 1921a) [pl. 20 fig. 2 and pl. 20 fig. 3]).

Remarks: Gerth (1921a) considered *Lonsdaleia indica* in Mansuy (1912) to belong to *Wentzelella timorica*. He studied also five specimens from Kasliu, which should be stored at IPB; one from Fatu Oinino should also be stored at IPB; one from Noil Boewan on the road to Niki-Niki (supposedly Nr. 661 at IPB).

Plate 1 fig. 1 in Gerth (1921b) is the same as pl. 145 (1) fig. 1 in Gerth (1921a).

Genus *Zaphrenthis* Rafinesque & Clifford, 1820
*Zaphrenthis phillipsi* Koker, 1924

Material from the Permian near Basleo (2 specimens THDKA.11752 (text-fig. 1 in Koker, 1924) [pl. 8 fig. 5 and pl. 8 fig. 6], THDKA.11753 (pl. 1 fig. 4-4a in Koker, 1924) [pl. 6 fig. 13 and pl. 6 fig. 14]).

Remarks: The specimens determined as *Zaphrenthis phillipsi* by Koker (1924) are determined as *Basleophyllum pachyderma* and *Basleophyllum indicum* by Von Schouppé & Stacul (1959).

*Zaphrenthis triadica* Koker, 1924

*Zaphrentis triadica* (spec. nov.) — Koker, 1924: 10, 32, text-fig. 21, pl. 2 fig. 1-1a

Holotype from the Upper Permian-Lower Triassic: White Ammonitelimestone of Netu Kot (specimen THDKA.12831 (pl. 2 fig. 1-1a in Koker, 1924) [pl. 10 fig. 3, pl. 10 fig. 4 and pl. 10 fig. 5]).

Remarks: Von Schouppé & Stacul (1959) doubt the age of Triassic and consider it lower Upper Permian.

Order Scleractinia Bourne, 1900
*Hydnophyllia martini* Gerth, 1921c

*Hydnophyllia Martini* spec. nov — Gerth, 1921c: 410-411, pl. 55 fig. 2, pl. 56 fig. 21
*Hydnophyllia Martini* Gerth — Gerth, 1925: 55
*Hydnophyllia martini* Gerth — Gerth, 1931a: 133; Gerth, 1933: 32, 9, pl. 1 fig. 5

Holotype from the Miocene: West Progo Beds near Gunung Spolong collected by K. Martin & Icke (specimen RGM.3829 (pl. 55 fig. 2, pl. 56 fig. 21 in Gerth, 1921c) [pl. 20 fig. 4 and pl. 20 fig. 5]).

Remarks: The young colony from the Progo beds from Kembang Sokkoh figured in Gerth (1933) could not be located in the RGM collections.

Genus *Acanthastraea* Milne Edwards & Haime, 1848b
*Acanthastraea polygonalis* Martin, 1880a

Acanthastraea(?) polygonalis nov. spec — Martin, 1880a: 142-143, pl. 25 fig. 2
*Acanthastraea polygonalis* Mart — Gerth, 1925: 58; Gerth, 1931a: 135

Holotype from the Upper Miocene-Pliocene locality "Junghuhn O" collected by Junghuhn (specimen RGM.3839 (pl. 25 fig. 2 in Martin, 1880a) [pl. 20 fig. 6, pl. 20 fig. 7 and pl. 20 fig. 8]).

Genus *Acanthocyathus* Milne Edwards & Haime, 1848a
*Acanthocyathus grayi* Milne Edwards & Haime, 1848a

*Acanthocyathus grayi* Edwards & Haime — Umbgrove, 1950: 641-642, pl. 81 fig. 27-32

Material from the Upper Pliocene: sandy marl in Upper Kalibeng beds along the Soloriver northwest of Padasmalang collected by Duyfjes on May, 28th, 1933 (specimen RGM.77725 (pl. 81 fig. 31 in Umbgrove, 1950) [pl. 20 fig. 9 and pl. 20 fig. 10]), along the Soloriver south of mouth of R. Alastuwa near Sonde collected by Umbgrove, bought by RGM in June, 1955 (specimen RGM.77727 (pl. 81 fig. 27-28 in Umbgrove, 1950) [pl. 20 fig. 11 and pl. 20 fig. 12]), from the Pleistocene: 'Argillaceous' of River Banjubanger collected by Cosijn (specimen RGM.77886 (pl. 81 fig. 29-30 in Umbgrove, 1950) [pl. 20 fig. 13 and pl. 20 fig. 14]), from the Lower Pleistocene: Volcanic Member ±100m south of River Kedungpring collected by Cosijn (specimen RGM.77889 (pl. 81 fig. 32 in Umbgrove, 1950) [pl. 20 fig. 15 and pl. 21 fig. 1]).

Remarks: Umbgrove (1950) synonymised *Acanthocyathus malayicus* with *Acanthocyathus grayi*.

*Acanthocyathus malayicus* Gerth, 1923 (junior synonym of *Acanthocyathus grayi*)

*Acanthocyathus malayicus* spec. nov — Gerth, 1923: 57, pl. 1 fig. 20-21
*Acanthocyathus malayicus* Gerth — Umbgrove, 1924: 4; Gerth, 1925: 53; Gerth, 1931a: 130

Syntypes from the Upper Miocene of Muara Kobun, Uferabgang am Tongkang, Sangkulirang collected by Schmidt (13 specimens RGM.167779 (pl. 1 fig. 21 in Gerth, 1923) [pl. 21 fig. 2 and pl. 21 fig. 3], RGM.525513 [pl. 21 fig. 4 and pl. 21 fig. 5], RGM. 525514 [pl. 21 fig. 6 and pl. 21 fig. 7], RGM.525515-525516 [pl. 21 fig. 8 and pl. 21 fig. 9], RGM.525517-525520 [pl. 21 fig. 10, pl. 21 fig. 11 and pl. 21 fig. 12], RGM.525521 [pl. 21 fig. 13 and pl. 21 fig. 14], RGM. 525522-525524 [pl. 21 fig. 15 and pl. 22 fig. 1]), Pulau Sinkuwang collected by L.M.R. Rutten (specimen RGM.43039 (pl. 1 fig. 20 in Gerth, 1923) [pl. 22 fig. 2 and pl. 22 fig. 3]).

*Acanthocyathus spinosa* Umbgrove, 1950

*Acanthocyathus spinosa* Umbgrove, n. sp — Umbgrove, 1950: 642, pl. 81 fig. 13-26

Syntypes from the Upper Pliocene: sandy marl in Upper Kalibeng beds along the Soloriver northwest of Padasmalang collected by Duyfjes on May, 28th, 1933 (specimen RGM.77790 (pl. 81 fig. 25-26 in Umbgrove, 1950) [pl. 22 fig. 4 and pl. 22 fig. 5]), from the Lower Pleistocene: Mollusc Unit I along the path

to village Soemberringin collected by Cosijn (6 specimens RGM.77894 (pl. 81 fig. 13 in Umbgrove, 1950) [pl. 22 fig. 6 and pl. 22 fig. 7], RGM.167685 (pl. 81 fig. 14 in Umbgrove, 1950) [pl. 22 fig. 8 and pl. 22 fig. 9], RGM.167686 (pl. 81 fig. 15 in Umbgrove, 1950) [pl. 22 fig. 10 and pl. 22 fig. 11], RGM.167687 (pl. 81 fig. 16 in Umbgrove, 1950) [pl. 22 fig. 12], RGM.167688 (pl. 81 fig. 17 in Umbgrove, 1950) [pl. 22 fig. 13], RGM.167689 (pl. 81 fig. 18 in Umbgrove, 1950) [pl. 22 fig. 14]), collected by Duyfjes (5 specimens RGM. 77893 (pl. 81 fig. 19-20 in Umbgrove, 1950) [pl. 22 fig. 15 and pl. 23 fig. 1], RGM.167682 (pl. 81 fig. 21-22 in Umbgrove, 1950) [pl. 23 fig. 2 and pl. 23 fig. 3], RGM.167683 (pl. 81 fig. 23-24 in Umbgrove, 1950) [pl. 23 fig. 4 and pl. 23 fig. 5], RGM.525341 [pl. 23 fig. 6 and pl. 23 fig. 7], RGM.525342 [pl. 23 fig. 8 and pl. 23 fig. 9]).

### Genus *Acropora* Oken, 1815
### *Acropora duncani* (Reuss, 1867)

*Madrepora Duncani* Reuss — Martin, 1880a: 146-147, pl. 25 fig. 11; Gerth, 1921c: 430-431, pl. 56 fig. 11
*Acropora duncani* (Reuss) — Gerth, 1925: 37

Material from the Lower Miocene: Nyalingdung Formation near Ciangsana (specimen RGM.3989 (pl. 56 fig. 11 in Gerth, 1921c) [pl. 23 fig. 10 and pl. 23 fig. 11]), from the Upper Miocene locality "Junghuhn P" collected by Junghuhn (specimen RGM.3990 (pl. 25 fig. 11 in Martin, 1880a) [pl. 23 fig. 12 and pl. 23 fig. 13]).

### *Acropora fennemai* (Gerth, 1921c)

*Madrepora Fennemai* spec. nov — Gerth, 1921c: 431-432, pl. 56 fig. 12
*Madrepora Fennemai* Gerth — Gerth, 1923: 115, pl. 9 fig. 5
Madrepora Fennemaï Gerth — Umbgrove, 1924: 16
*Acropora* (*Madrepora*) *Fennemai* Gerth — Gerth, 1925: 69
*Acropora Fennemai* Gerth — Umbgrove, 1929a: 69
*Acropora (Madrepora) fennemai* Gerth — Gerth, 1931a: 145, 148

Syntypes from the Upper Miocene of Cadasngampar collected by R.D.M. Verbeek (sample RGM.40959 (5 specimens) [pl. 23 fig. 14 and pl. 23 fig. 15], 2 specimens RGM.3997 (pl. 56 fig. 12 (left one) in Gerth, 1921c) [pl. 24 fig. 1 and pl. 24 fig. 2], RGM.167574 (pl. 56 fig. 12 (right one) in Gerth, 1921c) [pl. 24 fig. 3]).

Additional material from the Upper Miocene: Upper Balikpapan layers along the Sungai Gelingseh collected by L.M.R. Rutten (specimen RGM.17703 (pl. 9 fig. 5 in Gerth, 1923) [pl. 24 fig. 4 and pl. 24 fig. 5]).

### Genus *Actinastrea* D' Orbigny, 1849
### *Actinastrea minutissima* (Gerth, 1921c)

*Astrocoenia minutissima* spec. nov — Gerth, 1921c: 419-420
*Astrocoenia minutissima* Gerth — Gerth, 1923: 94, pl. 7 fig. 2-4; Gerth, 1925: 62; Umbgrove, 1929a: 61; Gerth, 1931a: 138, 146, 147
*Stylophora minutissima* (Gerth) — Gerth, 1933: 38-39, 9, 12
*Stylocoeniella? minutissima* (Gerth) — Umbgrove, 1946a: 523
Actinastrea minutissima (Gerth), 1921 — Wells, 1964: 1103, pl. 296 fig. 1-4, pl. 300 fig. 1

Holotype: West Progo Beds near Kembang Sokkoh collected by K. Martin & Icke (specimen RGM.3868 [pl. 24 fig. 6 and pl. 24 fig. 7]).

Additional material from the Upper Miocene: Upper Balikpapan layers along the Sungai Gelingseh collected by L.M.R. Rutten (specimen RGM.43105 (pl. 7 fig. 2-3 in Gerth, 1923) [pl. 24 fig. 8 and pl. 24 fig. 9]).

### Genus *Alveopora* De Blainville, 1830
### *Alveopora deningeri* Gerth, 1910

*Alveopora Deningeri* n. sp — Gerth, 1910: 19-20, fig. 2-3
*Alveopora* cf. *Deningeri* Gerth — Gerth, 1925: 49, 43, pl. 5 fig. 1
*Alveopora Deningeri* Gerth — Gerth, 1925: 70
*Alveopora deningeri* Gerth — Gerth, 1931a: 146

Holotype of Wai Hotton collected by Denninger (specimen IPB Gerth.41 (fig. 2-3 in Gerth, 1910)).

### *Alveopora molengraaffi* Gerth, 1928

*Alveopora Molengraaffi* spec. nov — Gerth, 1928: 1-2, pl. 1 fig. 1-1a

Syntypes from the Upper Cretaceous: Seroe Teintje Limestone north of the road between Krakeel and Klein-Fontien collected by Molengraaf (2 specimens RGM.45828 (2 fragments) (pl. 1 fig. 1-1a in Gerth, 1928) [pl. 24 fig. 10 and pl. 24 fig. 11], RGM. 45837 [pl. 24 fig. 12]).

### *Alveopora polyacantha* Reuss, 1867

*Alveopora polyacantha* Reuss — Umbgrove, 1946a: 540-541, pl. 80 fig. 3, pl. 82 fig. 1

Material from the Lower Pliocene: Tapak beds near Gunung Linggapadang collected by Umbgrove in 1928 (2 specimens RGM.77705 (pl. 80 fig. 3 in Umbgrove, 1946a) [pl. 24 fig. 13 and pl. 24 fig. 14], RGM.167672 (pl. 82 fig. 1 in Umbgrove, 1946a) [pl. 24 fig. 15 and pl. 25 fig. 1]).

### Genus *Anisocoenia* Reuss, 1867
### *Anisocoenia crassisepta* Reuss, 1867

*Anisocoenia crassisepta* Reuss — Martin, 1880a: 136, pl. 24 fig. 11

Material from the Upper Miocene-Pliocene locality "Junghuhn O" collected by Junghuhn (specimen RGM.3805 (pl. 24 fig. 11 in Martin, 1880a) [pl. 25 fig. 2 and pl. 25 fig. 3]).

*Anisocoenia variabilis* Gerth, 1923

*Anisocoenia variabilis* spec. nov — Gerth, 1923: 93, pl. 5 fig. 5-6
*Anisocoenia variabilis* Gerth — Gerth, 1925: 54; Gerth, 1931a: 132

Syntypes from the Miocene Gunung Batu at Sungai Sekurau collected by L.M.R. Rutten (3 specimens RGM.43068 (pl. 5 fig. 5 in Gerth, 1923) [pl. 25 fig. 4 and pl. 25 fig. 5], RGM.167791 (pl. 5 fig. 6 in Gerth, 1923) [pl. 25 fig. 6 and pl. 25 fig. 7], RGM. 167792 [pl. 25 fig. 8 and pl. 25 fig. 9]).

Genus *Antillia* Duncan, 1863
*Antillia cristata* Gerth, 1925

*Antillia cristata* spec. nov — Gerth, 1925: 44-45, 43, 54, pl. 7 fig. 3-3a
*Antillia cristata* Gerth — Gerth, 1931a: 132

Syntype from the Upper Miocene along the Sungai Menubar (specimen RGM.43059).

Remarks: Gerth (1925) used two specimens from Sungai Menubar as type material. One was illustrated. It needs to be checked if this is really the depicted specimen.

*Antillia orientalis* Gerth, 1921c

*Antillia orientalis* spec. nov — Gerth, 1921c: 408-409, pl. 56 fig. 2
*Antillia orientalis* Gerth — Gerth, 1923: 67, pl. 4 fig. 1; Gerth, 1925: 54; Gerth, 1931a: 132; Gerth, 1933: 12

Syntypes from the Miocene in the Ngembak borehole B collected by Van Dijk (5 specimens RGM. 3818 (pl. 56 fig. 2 in Gerth, 1921c) [pl. 25 fig. 10 and pl. 25 fig. 11], RGM.167542 [pl. 25 fig. 12 and pl. 25 fig. 13], RGM.525244 [pl. 25 fig. 14], RGM.525245 [pl. 25 fig. 15 and pl. 26 fig. 1], RGM.525246 [pl. 26 fig. 2 and pl. 26 fig. 3]).

Additional material from the Miocene: Upper Balikpapan layers in the Gunung Batu-Anticline (specimen RGM.43054 (pl. 4 fig. 1 in Gerth, 1923) [pl. 26 fig. 4, pl. 26 fig. 5 and pl. 26 fig. 6]).

Remarks: Gerth (1923) studied one specimen from Gunung Batu at Sungai Sekurau.

*Antillia turbinata* Gerth, 1925

*Antillia turbinata* spec. nov — Gerth, 1925: 26, 23, 43-44, 55, pl. 7 fig. 2-2b
*Antillia turbinata* (Gerth) — Umbgrove, 1926: 32, pl. 1 fig. 4
*Antillia turbinata* Gerth — Gerth, 1931a: 132

Syntypes from the Neogene-Quaternary of Neighbourhood of Awaay collected by Schröder (3 specimens RGM.525700, RGM.529381-529382).

Remarks: Typeseries: specimens from Sg. Menoebar (Borneo), from the road to Awaaj (Nias, coll. Schröder 58) and from Atjeh (Sumatra). Two specimens are depicted.

Genus *Antillophyllia* Vaughan, 1932
*Antillophyllia constricta* (Brüggeman, 1877)
*Antillia infundibuliformis* Gerth, 1921c (junior synonym of *Antillophyllia constricta*)

*Antillia infundibuliformis* spec. nov — Gerth, 1921c: 408, pl. 55 fig. 10

Syntypes from the Pliocene: Sondé Member near Sondé collected by R.D.M. Verbeek (2 specimens RGM.3815 (pl. 55 fig. 10 in Gerth, 1921c) [pl. 26 fig. 7 and pl. 26 fig. 8], RGM.167541 [pl. 26 fig. 9 and pl. 26 fig. 10]).

*Antillophyllia grandiflora* (Gerth, 1921c) (junior synonym of *Antillophyllia constricta*)

*Antillia grandiflora* spec. nov — Gerth, 1921c: 409-410, pl. 55 fig. 8-9
*Antillia grandiflora* Gerth — Gerth, 1925: 54; Gerth, 1931a: 132
*Antillophylia* cf. *grandiflora* Gerth — Umbgrove, 1938: 271

Syntypes from the Pliocene: Sondé Member near Dessa Garung collected by L.M.R. Rutten (specimen RGM.3817 (pl. 55 fig. 9 in Gerth, 1921c) [pl. 26 fig. 11 and pl. 26 fig. 12]), Gunung Modo collected by L.M.R. Rutten (specimen RGM.3816 (pl. 55 fig. 8 in Gerth, 1921c) [pl. 26 fig. 13, pl. 26 fig. 14 and pl. 26 fig. 15]).

Genus *Astreopora* De Blainville, 1830
*Astreopora digitata* (Gerth, 1925)

*Polysolenia digitata* spec. nov — Gerth, 1925: 36, 23, 70, pl. 5 fig. 2-2a
*Polysolenia digitata* Gerth — Gerth, 1931a: 145

Syntypes from the Neogene-Quaternary along the road from Idane Gawo to Sogae Adju collected by Schröder (2 specimens RGM.17987 (pl. 5 fig. 2-2a in Gerth, 1925) [pl. 27 fig. 1 and pl. 27 fig. 2], RGM. 167815 [pl. 27 fig. 3 and pl. 27 fig. 4]).

*Astreopora hochstetteri* (Reuss, 1867)

*Polysolenia Hochstetteri* Reuss — Gerth, 1921c: 436, pl. 56 fig. 5-6

Material from the Miocene in the Ngembak borehole B collected by Van Dijk (specimen RGM. 4005 (pl. 56 fig. 5-6 in Gerth, 1921c) [pl. 27 fig. 5]).

*Astreopora myriophthalma* De Lamarck, 1816

*Astreopora myriophthalma* Lam — Martin, 1880a: 147, pl. 25 fig. 12

Material from the Upper Miocene locality "Junghuhn P" collected by Junghuhn (specimen RGM.4006 (pl. 25 fig. 12 in Martin, 1880a) [pl. 27 fig. 6]).

*Astreopora rutteni* (Gerth, 1923)

*Polysolenia Rutteni* spec. nov — Gerth, 1923: 121, pl. 9 fig. 7-8
*Polysolenia Rutteni* Gerth — Gerth, 1925: 70
*Polysolenia rutteni* Gerth — Gerth, 1931a: 145; Gerth, 1933: 40, 9

Syntypes from the Upper Miocene: Upper Balikpapan layers along the Sungai Gelingseh collected by L.M.R. Rutten (2 specimens RGM.42983 (pl. 9 fig. 8 in Gerth, 1923) [pl. 27 fig. 7 and pl. 27 fig. 8], RGM. 42984 (pl. 9 fig. 7 in Gerth, 1923) [pl. 27 fig. 9, pl. 27 fig. 10 and pl. 27 fig. 11]).

*Astreopora* sp.

*Astreopora* spec — Gerth, 1921c: 436, pl. 55 fig. 3; Umbgrove, 1929a: 71, pl. 1 fig. 18-21

Material from the Miocene: West Progo Beds near Puntuk Tedjo collected by K. Martin & Icke (specimen RGM.4009 (pl. 55 fig. 3 in Gerth, 1921c) [pl. 27 fig. 12]).

Genus *Astrocoenia* Milne Edwards & Haime, 1848b
*Astrocoenia colliculosa* Trautschold, 1886

*Astrocoenia colliculosa* Trautsch — Gerth, 1928: 7, pl. 1 fig. 6

Material from the Lower Cretaceous of Neuquen (specimen RGM.143055 (pl. 1 fig. 6 in Gerth, 1928)).

Remarks: Gerth (1928) studied two fragments from Neuquen ("ohne nähere Fundortsangabe". "Oberes Neocom"). RGM.143055 is missing since before October, 25th, 1999. Only its box and lable are present at NNM.

Genus *Balanophyllia* Wood, 1844
*Balanophyllia complanata* Gerth, 1921c

*Balanophyllia complanata* spec. nov — Gerth, 1921c: 428-429, pl. 57 fig. 37-38
*Balanophyllia complanata* Gerth — Gerth, 1925: 67; Gerth, 1931a: 143; Gerth, 1933: 12

Syntypes from the Miocene in the Ngembak borehole B collected by Van Dijk (5 specimens RGM. 3941 (pl. 57 fig. 37-38 in Gerth, 1921c) [pl. 27 fig. 13 and pl. 27 fig. 14], RGM.525234 [pl. 27 fig. 15 and pl. 28 fig. 1], RGM.525235 [pl. 28 fig. 2 and pl. 28 fig. 3], RGM.525236-525237 [pl. 28 fig. 4 and pl. 28 fig. 5]).

*Balanophyllia oppenheimi* Felix, 1913

*Balanophyllia Oppenheimi* Fel — Gerth, 1921c: 427, pl. 57 fig. 35-36
*Balanophyllia oppenheimi* Felix — Umbgrove, 1950: 647

Syntype from the Pliocene: Sondé Member near Sondé collected by R.D.M. Verbeek (specimen RGM. 3943 (pl. 57 fig. 35-36 in Gerth, 1921c) [pl. 28 fig. 6 and pl. 28 fig. 7]).

Additional material from the Pliocene: Sondé Member of Dessa Sahar collected by L.M.R. Rutten (9 specimens RGM.525213 [pl. 28 fig. 8 and pl. 28 fig. 9], RGM.525214 [pl. 28 fig. 10 and pl. 28 fig. 11], RGM.525215 [pl. 28 fig. 12 and pl. 28 fig. 13], RGM. 525216 [pl. 28 fig. 14 and pl. 28 fig. 15], RGM.525217 [pl. 29 fig. 1], RGM.525218 [pl. 29 fig. 2 and pl. 29 fig. 3], RGM.525219 [pl. 29 fig. 4 and pl. 29 fig. 5], RGM. 525220 [pl. 29 fig. 6, pl. 29 fig. 7 and pl. 29 fig. 8], RGM.525221).

*Balanophyllia variabilis* Gerth, 1921c (junior synonym of *Balanophyllia oppenheimi*)

*Balanophyllia variabilis* spec. nov — Gerth, 1921c: 427-428, pl. 57 fig. 31-34
*Balanophyllia variabilis* Gerth — Gerth, 1925: 67; Gerth, 1931a: 143

Syntypes from the Pliocene: Sondé Member near Dessa Garung collected by L.M.R. Rutten (19 specimens RGM.3944 (pl. 57 fig. 31 in Gerth, 1921c) [pl. 29 fig. 9 and pl. 29 fig. 10], RGM.40807, RGM. 167564 (pl. 57 fig. 32 in Gerth, 1921c) [pl. 29 fig. 11, pl. 29 fig. 12 and pl. 29 fig. 13], RGM.167565 (pl. 57 fig. 33 in Gerth, 1921c) [pl. 29 fig. 14 and pl. 29 fig. 15], RGM.167566 (pl. 57 fig. 34 in Gerth, 1921c) [pl. 30 fig. 1 and pl. 30 fig. 2], RGM.525222 [pl. 30 fig. 3 and pl. 30 fig. 4], RGM.525223-525225 [pl. 30 fig. 5, pl. 30 fig. 6 and pl. 30 fig. 7], RGM.525226-525229 [pl. 30 fig. 8 and pl. 30 fig. 9], RGM.525230 [pl. 30 fig. 10 and pl. 30 fig. 11], RGM.525231 [pl. 30 fig. 12], RGM. 525232 [pl. 30 fig. 13, pl. 30 fig. 14 and pl. 30 fig. 15], RGM.525233, RGM.525336 [pl. 31 fig. 1 and pl. 31 fig. 2], RGM.525337 [pl. 31 fig. 3 and pl. 31 fig. 4]), of Dessa Gesing collected by L.M.R. Rutten (4 specimens RGM.525209 [pl. 31 fig. 5 and pl. 31 fig. 6], RGM.525210-525212), of Dessa Sahar collected by L.M.R. Rutten (9 specimens RGM.525213 [pl. 28 fig. 8 and pl. 28 fig. 9], RGM.525214 [pl. 28 fig. 10 and pl. 28 fig. 11], RGM.525215 [pl. 28 fig. 12 and pl. 28 fig. 13], RGM.525216 [pl. 28 fig. 14 and pl. 28 fig. 15], RGM.525217 [pl. 29 fig. 1], RGM.525218 [pl. 29 fig. 2 and pl. 29 fig. 3], RGM.525219 [pl. 29 fig. 4 and pl. 29 fig. 5], RGM.525220 [pl. 29 fig. 6, pl. 29 fig. 7 and pl. 29 fig. 8], RGM.525221).

Genus *Bathyactis* Moseley, 1881
*Bathyactis eocaenica* Gerth, 1921c

*Bathyactis eocaenica* spec. nov — Gerth, 1921c: 425, pl. 57 fig. 20
*Bathyactis eocaenica* Gerth — Gerth, 1925: 64; Gerth, 1931a: 140, 146; Gerth, 1933: 3-4, pl. 1 fig. 2-2a

Syntypes from the Eocene: Nanggulan Formation Kali Puru collected by K. Martin & Icke (2 specimens RGM.3898 (pl. 1fig. 2a in Gerth, 1933, pl. 57 fig. 20 in Gerth, 1921c) [pl. 31 fig. 7, pl. 31 fig. 8 and pl. 31 fig. 9], RGM.167558 (pl. 1fig. 2 in Gerth, 1933) [pl. 31 fig. 10 and pl. 31 fig. 11]).

Remarks: According to Gerth (1933) *Bathyactis eocaenica* used *Discocyclina dispansa* as substratum.

Genus *Caryophyllia* De Lamarck, 1816
*Caryophyllia clavus*
*Caryophyllia clavus* var. *javana* Gerth, 1921c

*Caryophyllia clavus* Scachi var. *javana* var. nov — Gerth, 1921c: 394
*Caryophyllia clavus* Scacchi var. *javana* Gerth — Gerth, 1925: 52; Gerth, 1931a: 130

Syntypes from the Upper Miocene in the Ngembak borehole B collected by Van Dijk (specimen RGM.3783 (2 fragments) [pl. 31 fig. 12, pl. 31 fig. 13 and pl. 31 fig. 14]), from the Pliocene: Sondé Member near Sondé collected by R.D.M. Verbeek (specimen RGM.3782 (5 fragments) [pl. 31 fig. 15, pl. 32 fig. 1 and pl. 32 fig. 2]).

Genus *Ceratocyathus* Seguensa, 1873
*Ceratocyathus curvatus* Gerth, 1923

*Ceratocyathus curvatus* spec. nov — Gerth, 1923: 56-57, pl. 1 fig. 18-19
*Ceratocyathus curvatus* Gerth — Gerth, 1925: 52; Gerth, 1931a: 130

Syntypes from the Upper Miocene of Tanah Belang collected by Schmidt, leg. 1902 (44 specimens RGM.43041 (pl. 1 fig. 18 in Gerth, 1923) [pl. 32 fig. 3 and pl. 32 fig. 4], RGM.167778 (pl. 1 fig. 19 in Gerth, 1923) [pl. 32 fig. 5 and pl. 32 fig. 6], RGM.525414 [pl. 32 fig. 7 and pl. 32 fig. 8], RGM.525415-525417 [pl. 32 fig. 9 and pl. 32 fig. 10], RGM.525418-525425 [pl. 32 fig. 11 and pl. 32 fig. 12], RGM.525426-525431 [pl. 32 fig. 13 and pl. 32 fig. 14], RGM.525432-525444 [pl. 32 fig. 15 and pl. 33 fig. 1], RGM.525445-525455).

*Ceratocyathus pressulus* Gerth, 1923

*Ceratocyathus pressulus* spec. nov — Gerth, 1923: 55-56, pl. 1 fig. 15-17
*Ceratocyathus pressulus* Gerth — Gerth, 1925: 52; Gerth, 1931a: 130

Syntypes from the Miocene along the Sungai Taritip collected by Schmidt, leg. 1902 (specimen RGM.43030 (pl. 1 fig. 15 in Gerth, 1923) [pl. 33 fig. 2 and pl. 33 fig. 3]), from the Miocene-Pliocene of Sungai Goleh collected by Schmidt, leg. 1902 (2 specimens RGM.525509-525510), from the Upper Miocene of Tanah Belang collected by Schmidt, leg. 1902 (17 specimens RGM.43029 (pl. 1 fig. 16 in Gerth, 1923) [pl. 33 fig. 4 and pl. 33 fig. 5], RGM.167777 (pl 1 fig. 17 in Gerth, 1923) [pl. 33 fig. 6 and pl. 33 fig. 7], RGM.525494 [pl. 33 fig. 8 and pl. 33 fig. 9], RGM. 525495 [pl. 33 fig. 10 and pl. 33 fig. 11], RGM.525496 [pl. 33 fig. 12 and pl. 33 fig. 13], RGM.525497-525508), of Tandjong Batu collected by Schmidt, leg. 1902 (specimen RGM.43032 [pl. 33 fig. 14, pl. 33 fig. 15 and pl. 34 fig. 1]).

Genus *Ceratophyllia* Von Fritsch, 1875
*Ceratophyllia gigantea* (Gerth, 1923)

*Trochosmilia gigantea* spec. nov — Gerth, 1923: 59-60, pl. 2 fig. 5
*Trochosmilia? gigantea* Gerth — Gerth, 1925: 53
*Trochosmilia gigantea* Gerth — Gerth, 1930: 339
*Trochosmilia? gigantea* Gerth — Gerth, 1931a: 131
*Ceratophyllia (Trochosmilia) gigantea* (Gerth) — Gerth, 1933: 16

Syntype from the Lower Miocene of Gunung Runtu collected by Witkamp (specimen RGM.43057 ( in Gerth, 1923) [pl. 34 fig. 2 and pl. 34 fig. 3]).

Genus *Coelastraea* Verrill, 1866
*Coelastraea rectangularis* Umbgrove, 1945

*Coelastraea rectangularis* nova species — Umbgrove, 1945: 343, fig. 1

Holotype from the Miocene-Pliocene: Halang beds near Cisande collected by Umbgrove in 1928 (specimen RGM.77514 (fig. 1 in Umbgrove, 1945) [pl. 34 fig. 4]).

Genus *Coelocoenia* Gerth, 1923
*Coelocoenia torulosa* Gerth, 1923

*Coelocoenia torulosa* gen. nov. spec. nov — Gerth, 1923: 62-63, pl. 3 fig. 4-5
*Coelocoenia torulosa* Gerth — Gerth, 1925: 54; Gerth, 1931a: 131

Syntypes from the Miocene: Upper Balikpapan layers in the Batu-Hidup Anticline collected by L.M.R. Rutten (specimen RGM.43062 (2 samples, 1 fragment) (pl. 3 fig. 5 in Gerth, 1923) [pl. 34 fig. 5, pl. 34 fig. 6 and pl. 34 fig. 7]), in the Gunung Batu-Anticline collected by L.M.R. Rutten (specimen RGM.43063 (pl. 3 fig. 4 in Gerth, 1923) [pl. 34 fig. 8 and pl. 34 fig. 9]).

Remarks: On object and on label of RGM.43063 Coll. Rutten L62 is given, while RGM database gives "RU L2". According to Gerth (1923) and pencil notes in the library copy of that publication, this object is from loc. 35: Sungai Gelingseh, Gunung Batu-Anticline.

Genus *Coeloria* Milne Edwards & Haime, 1848b
*Coeloria daedalea* Umbgrove, 1946a

*Coeloria* cf. *daedalea* (Forskål) — Umbgrove, 1946a: 528, pl. 79 fig. 7

Material from the Lower Pliocene near Gunung Linggapadang collected by Umbgrove, bought by RGM in June, 1955 (specimen RGM.77586 (pl. 79 fig. 7 in Umbgrove, 1946a) [pl. 34 fig. 10 and pl. 34 fig. 11]).

*Coeloria dubia* (Reuss, 1867)

*Prionastraea dubia* Reuss — Gerth, 1921c: 411-412, pl. 55 fig. 6-7
*Coeloria (Prionastraea) dubia* (Reuss) — Gerth, 1925: 58

Material from the Miocene: Nyalingdung Formation of Gunung Buleud collected by K. Martin & Icke (specimen RGM.3840 (pl. 55 fig. 7, probably also fig. 6 in Gerth, 1921c) [pl. 34 fig. 12, pl. 34 fig. 13 and pl. 34 fig. 14]).

*Coeloria inaequiseptata* (Gerth, 1921c)

*Prionastraea inaequiseptata* spec. nov — Gerth, 1921c: 412, pl. 56 fig. 18
*Coeloria inaequiseptata* Gerth — Gerth, 1923: 79
*Coeloria (Prionastraea) inaequiseptata* Gerth — Gerth, 1925: 58; Gerth, 1931a: 135

Holotype from the Lower Miocene: Nyalingdung Formation of Cibeber collected by K. Martin & Icke (specimen RGM.3842 (pl. 56 fig. 18 in Gerth, 1921c) [pl. 34 fig. 15, pl. 35 fig. 1 and pl. 35 fig. 2]).

*Coeloria naroetensis* Gerth, 1923

*Coeloria naroetensis* spec. nov — Gerth, 1923: 78-79, pl. 4 fig. 7
*Coeloria naroetensis* Gerth — Gerth, 1925: 58; Gerth, 1931a: 135

Syntype from the Miocene along the Sungai Narut (specimen RGM.43076 (pl. 4 fig. 7 in Gerth, 1923) [pl. 35 fig. 3 and pl. 35 fig. 4]).

*Coeloria singularis* Martin, 1880a

*Coeloria singularis* nov. spec — Martin, 1880a: 137, pl. 24 fig. 13-14
*Coeloria singularis* Mart — Gerth, 1925: 58; Gerth, 1931a: 135

Syntypes from the Miocene locality "Junghuhn N" collected by Junghuhn (2 fragments RGM.525331 (pl. 24 fig. 13 in Martin, 1880a) [pl. 35 fig. 5 and pl. 35 fig. 6], RGM.525332 (pl. 24 fig. 14 in Martin, 1880a) [pl. 35 fig. 7 and pl. 35 fig. 8]).

Genus *Coenangia* Verrill, 1870
*Coenangia polygonalis* Umbgrove, 1950

*Coenangia polygonalis* Umbgrove, n. sp — Umbgrove, 1950: 644-645, pl. 83 fig. 1-6

Syntypes from the Pleistocene: 'Argillaceous' south of village Asemgede collected by Cosijn (specimen RGM.77958 (pl. 83 fig. 3 in Umbgrove, 1950) [pl. 35 fig. 9]), from the Lower Pleistocene: 'Argillaceous' of River Tretes near village Garung collected by Cosijn (14 specimens RGM.77959 (pl. 83 fig. 2 in Umbgrove, 1950) [pl. 35 fig. 10 and pl. 35 fig. 11], RGM.77960 (pl. 83 fig. 4 in Umbgrove, 1950) [pl. 35 fig. 12], RGM.77961 (pl. 83 fig. 6 in Umbgrove, 1950) [pl. 35 fig. 13], RGM.78049A (pl. 83 fig. 1 in Umbgrove, 1950) [pl. 35 fig. 14 and pl. 35 fig. 15], RGM.525372 [pl. 36 fig. 1], RGM.525373 [pl. 36 fig. 2], RGM.525374 [pl. 36 fig. 3], RGM.525375 [pl. 36 fig. 4], RGM.525376-525379 [pl. 36 fig. 5], RGM. 525380 [pl. 36 fig. 6], RGM.525381 [pl. 36 fig. 7]), south of village Asemgede collected by Cosijn (specimen RGM.77962 (pl. 83 fig. 5 in Umbgrove, 1950) [pl. 36 fig. 8]); fossil horizon some m. above Mollusc Unit I of River Kedungpring collected by Cosijn (specimen RGM.78113 [pl. 36 fig. 9]).

Remarks: Umbgrove (1950) studied 27 specimens from south of village Asemgede, 22 specimens from River Tretes near village Garung and one specimen from River Kedungpring. Not all these specimens have been relocated at NNM. Specimen RGM. 78049A grew on a *Dendrophyllia digitalis*. Specimen RGM.525380 contains cf. *Chama* (det. F.P. Wesselingh 2005-05-25) in living position in several of its calices. Present in collection Umbgrove as bought by RGM in June, 1955.

Genus *Columastrea* D' Orbigny, 1849
*Columastrea antiqua* (Gerth, 1928)

*Columnastraea antiqua* spec. nov — Gerth, 1928: 5, 14, pl. 1 fig. 4-4a

Syntypes from the Lower Cretaceous of Arroyo Covunco collected by Windhausen (sample RGM. 143052 (4 specimens, 3 thin sections) [pl. 36 fig. 10]), from the Aptian: Agrio Formation of Sierra de Vaca Muerta (specimen RGM.143044 (pl. 1 fig. 4 or 4a? in Gerth, 1928)).

Genus *Confusastraraea* Gerth, 1933
*Confusastraraea obsoleta* (Gerth, 1921c)

*Confusastreae obsoleta* spec. nov — Gerth, 1921c: 417, pl. 55 fig. 5, pl. 56 fig. 24
*?Confusastraea obsoleta* Gerth — Gerth, 1925: 62
*Cyathomorpha (Confusastraea) obsoleta* Gerth — Gerth, 1931a: 139, 147
*Confusastraraea obsoleta* (Gerth) — Gerth, 1933: 35-36, 9, pl. 1 fig. 4

Syntypes from the Miocene: West Progo Beds near Gunung Spolong collected by K. Martin & Icke (specimen RGM.3872 [pl. 36 fig. 11]), near Kampong Djunggrangan collected by K. Martin & Icke (specimen RGM.3874 [pl. 36 fig. 12]), near Puntuk Tedjo

collected by K. Martin & Icke (specimen RGM.3873 [pl. 36 fig. 13]), from the Lower Miocene: West Progo Beds near Gunung Spolong collected by K. Martin & Icke (specimen RGM.3870 (2 fragments) (pl.55 fig. 5 in Gerth, 1921c) [pl. 36 fig. 14 and pl. 36 fig. 15]), near Kembang Sokkoh collected by K. Martin & Icke (specimen RGM.3871 (pl. 56 fig. 24 in Gerth, 1921c) [pl. 37 fig. 1, pl. 37 fig. 2 and pl. 37 fig. 3]).

Remarks: Specimen RGM.3874 does not resemble the figure in Gerth (1933).

Genus *Conosmilia* Duncan, 1870
*Conosmilia sundaiana* Gerth, 1921c

*Conosmilia sundaiana* spec. nov — Gerth, 1921c: 403, pl. 57 fig. 39
*Conosmilia sundaica* Gerth — Gerth, 1925: 53; Gerth, 1931a: 131

Holotype from the Pliocene: Sondé Member near Sondé collected by R.D.M. Verbeek (specimen RGM.3804 [pl. 37 fig. 4 and pl. 37 fig. 5]).

Remarks: The spelling '*Conosmilia sundaica*' in Gerth (1925) and in Gerth (1931a) is considered an incorrect subsequent spelling of *Conosmilia sundaiana*.

Genus *Convexastrea* D' Orbigny, 1849
*Convexastrea weaveri* Gerth, 1928

*Convescatraea Weaveri* spec. nov. — Gerth, 1928: 8-9, 13, pl. 2 fig. 5

Holotype from the Callovian of 7 km northwest of Cerro Picun Leufu (specimen RGM.143060 (3 thin sections, 8 fragments) (pl. 2 fig. 5 in Gerth, 1928) [pl. 37 fig. 6]).

Remarks: Typeseries: one fragment from coll. Weaver loc. 966: 7 km NW of Co. Pieun Leufu, Neuquen. Callovien. In the caption of the figure and on p. 13 the genus is spelled as: "*Convexastraea*", the spelling on p. 8 is a misspelling.

Genus *Coscinaraea* Milne Edwards & Haime, 1848b
*Coscinaraea columna* Dana, 1846

*Coscinaraea columna* (Dana) — Umbgrove, 1946a: 539, pl. 81 fig. 2

Material from the Lower Pliocene near Gunung Linggapadang collected by Umbgrove (specimen RGM.167671 (pl. 81 fig. 2 in Umbgrove, 1946a) [pl. 37 fig. 7 and pl. 37 fig. 8]).

Genus *Cyathophora* Michelin in Michelin, 1840-1847
*Cyathophora decamera* Gerth, 1928

*Cyathopora decamera* spec. nov — Gerth, 1928: 10, 13, pl. 2 fig. 4

Holotype from the Callovian north of Catan-Lil collected by Weaver (specimen RGM.143064 (pl. 2 fig. 4 in Gerth, 1928)).

Genus *Cyathoseris* Milne Edwards & Haime, 1849
*Cyathoseris crassilamellata* Gerth, 1923

*Cyathoseris crassilamellata* n. sp — Gerth, 1923: 104-105, pl. 8 fig. 7
*Cyathoseris crassilamellata* Gerth — Gerth, 1925: 65; Gerth, 1931a: 141
*Cyathoseris* cf. *crassilamellata* Gerth — Umbgrove, 1946a: 537, pl. 81 fig. 7

Holotype from the Upper Miocene of west of Gunung Batuta and south of Sungai Bungalun collected by L.M.R. Rutten (specimen RGM.43124 (pl. 8 fig. 7 in Gerth, 1923) [pl. 37 fig. 9 and pl. 37 fig. 10]).

Additional material from the Lower Pliocene: marl in Tapak beds near Gunung Linggapadang collected by Umbgrove in 1928 (specimen RGM.77676 (pl. 81 fig. 7 in Umbgrove, 1946a) [pl. 37 fig. 11 and pl. 37 fig. 12]).

*Cyathoseris lophiophora* Felix, 1921

*Cyathoseris lophiophora* Felix — Umbgrove, 1946a: 537, pl. 82 fig. 2

Material from the Lower Pliocene near Gunung Linggapadang collected by Umbgrove in 1928 (specimen RGM.77670 (pl. 82 fig. 2 in Umbgrove, 1946a) [pl. 37 fig. 13 and pl. 37 fig. 14]).

Genus *Cyphastraea* Milne Edwards & Haime, 1848b
*Cyphastraea crassa* Gerth, 1923

*Cyphastraea crassa* spec. nov — Gerth, 1923: 88, pl. 6 fig. 4
*Cyphastraea crassa* Gerth — Gerth, 1925: 60; Gerth, 1931a: 137; Gerth, 1933: 10, 27

Syntype from the Upper Miocene: Upper Balikpapan layers along the Sungai Gelingseh collected by L.M.R. Rutten (specimen RGM.43092 (pl. 6 fig. 4 in Gerth, 1923) [pl. 37 fig. 15 and pl. 38 fig. 1]).

*Cyphastraea gemmulifera* Gerth, 1921c

*Cyphastraea gemmulifera* spec. nov — Gerth, 1921c: 415-416, pl. 56 fig. 4
*Cyphastraea gemmulifera* Gerth — Gerth, 1923: 86-87, pl. 6 fig. 3; Gerth, 1925: 60
*Cyphastraea gemmulifera* (Gerth) — Umbgrove, 1926: 38
*Cyphastraea gemmulifera* Gerth — Gerth, 1931a: 137,148; Gerth, 1933: 9, 26

Holotype from the Lower Miocene: Nyalingdung Formation near Citalahab collected by R.D.M. Verbeek (specimen RGM.3861 (pl. 56 fig. 4 in Gerth, 1921c) [pl. 38 fig. 2 and pl. 38 fig. 3]).

Additional material from the Upper Miocene: Upper Balikpapan layers along the Sungai Gelingseh collected by L.M.R. Rutten (specimen RGM.43090 (pl. 6 fig. 3 in Gerth, 1923) [pl. 38 fig. 4 and pl. 38 fig. 5]).

*Cyphastraea microphthalma* (De Lamarck, 1816)

Cyphastrea microphthalma (Lamarck) — Umbgrove, 1946a: 524

Material from the Lower Pliocene near Gunung Linggapadang collected by Umbgrove in 1928 (specimen RGM.77582 [pl. 38 fig. 6, pl. 38 fig. 7 and pl. 38 fig. 8]).

Remarks: Plate 77 fig. 5 in Umbgrove (1946a) is incorectly addressed as *Cyphastraea microphthalma*, it should be *Cyphastraea chalcidicum*.

*Cyphastraea niasensis* Gerth, 1925

*Cyphastraea niasensis* spec. nov — Gerth, 1925: 30, 24, 61, pl. 5 fig. 6-6a
*Cyphastraea niasensis* Gerth — Gerth, 1931a: 137; Gerth, 1933: 29, 9, 10, 26

Syntypes from the Neogene-Quaternary of "Durchbruch des Idane Gawo" collected by Schröder (2 specimens RGM.17984 (pl. 5 fig. 6 in Gerth, 1925) [pl. 38 fig. 9], RGM.125795 (pl. 5 fig. 6a in Gerth, 1925)).

*Cyphastraea tubifera* Gerth, 1923

*Cyphastraea tubifera* spec. nov — Gerth, 1923: 87-88, pl. 6 fig. 1-2
*Cyphastraea tubifera* Gerth — Gerth, 1925: 29, 23, 61; Gerth, 1931a: 137

Syntypes from the Miocene: Upper Balikpapan layers in the Batu-Hidup Anticline collected by L.M.R. Rutten (specimen RGM.17708 (pl. 6 fig. 1 in Gerth, 1923) [pl. 38 fig. 10 and pl. 38 fig. 11]), from the Upper Miocene: Upper Balikpapan layers along the Sungai Gelingseh collected by L.M.R. Rutten (specimen RGM.17707 (pl. 6 fig. 2 in Gerth, 1923) [pl. 38 fig. 12 and pl. 38 fig. 13]).

*Cyphastrea japonica* Yabe & Sugiyama, 1932
*Solenastraea arborescens* Gerth, 1925 (junior synonym of *Cyphastrea japonica*)

*Solenastraea arborescens* spec. nov — Gerth, 1925: 30-31, 23, 61, pl. 5 fig. 4
*Solenastraea arborescens* Gerth — Gerth, 1931a: 138

Syntypes from the Neogene-Quaternary along the road from Idane Gawo to Sogae Adju collected by Schröder (3 specimens RGM.17979 (pl. 5 fig. 4 in Gerth, 1925) [pl. 38 fig. 14 and pl. 38 fig. 15], RGM. 167813 [pl. 39 fig. 1 and pl. 39 fig. 2], RGM.167814 [pl. 39 fig. 3]).

Genus *Dasyphyllia* Milne Edwards & Haime, 1848b
*Dasyphyllia brevicaulis* Felix, 1915

*Dasyphyllia brevicaulis* nov. sp — Felix, 1915: 9-10, pl. 38 fig. 3-3b

Holotype from the Pliocene-Pleistocene of Mota Talau near Atambua (specimen THDKA.13652 (pl. 38 fig. 3-3b in Felix, 1915) [pl. 39 fig. 4 and pl. 39 fig. 5]).

Genus *Deltocyathus* Milne Edwards & Haime, 1848a
*Deltocyathus australis* Gerth, 1921c

*Deltocyathus australis* spec. nov — Gerth, 1921c: 394
*Deltocyathus australis* Gerth — Gerth, 1923: 49, pl. 1 fig. 4-5
*Deltocyathus australis* Gerth (*D. italicus* Michtti. var. *australis* Dunc.) — Gerth, 1925: 52; Gerth, 1931a: 130
*Deltocyathus australis* Gerth — Gerth, 1933: 12

Syntypes from the Miocene of Beberkiri river collected by Van Dijk (2 specimens RGM.3770 [pl. 39 fig. 6, pl. 39 fig. 7 and pl. 39 fig. 8], RGM.167525 [pl. 39 fig. 9, pl. 39 fig. 10 and pl. 39 fig. 11]).

Additional material from the Upper Miocene of Tanah Belang collected by Schmidt, leg. 1902 (specimen RGM.43019 (pl. 1 fig. 4-5 in Gerth, 1923) [pl. 39 fig. 12, pl. 39 fig. 13 and pl. 39 fig. 14]).

*Deltocyathus tuberculatus* Gerth, 1923

*Deltocyathus tuberculatus* spec. nov — Gerth, 1923: 50-51, pl. 1 fig. 1-3
*Deltocyathus tuberculatus* Gerth — Gerth, 1925: 52; Gerth, 1931a: 130

Syntypes from the Upper Miocene of Tanah Belang collected by Schmidt, leg. 1902 (8 specimens RGM.43021 (pl. 1 fig. 2 in Gerth, 1923) [pl. 39 fig. 15, pl. 40 fig. 1 and pl. 40 fig. 2], RGM.167770 (pl. 1 fig. 2 in Gerth, 1923) [pl. 40 fig. 3, pl. 40 fig. 4 and pl. 40 fig. 5], RGM.167771 (pl. 1 fig. 3 in Gerth, 1923) [pl. 40 fig. 6 and pl. 40 fig. 7], RGM.525395 [pl. 40 fig. 8, pl. 40 fig. 9 and pl. 40 fig. 10], RGM.525396-525397 [pl. 40 fig. 11, pl. 40 fig. 12 and pl. 40 fig. 13], RGM. 525398-525399).

Genus *Dendracis* Milne Edwards & Haime, 1849
*Dendracis* sp.

*Dendracis* spec — Gerth, 1925: 37-38, 24, 69, pl. 5 fig. 5

Material from the Neogene-Quaternary of Hilidraonolasi collected by Schröder (specimen RGM.17981 (pl. 5 fig. 5 in Gerth, 1925) [pl. 40 fig. 14]).

Genus *Dendrophyllia* De Blainville, 1830
*Dendrophyllia digitalis* De Blainville, 1830
*Dendrophyllia rutteni* Gerth, 1921c (junior synonym of *Dendrophyllia digitalis*)

*Dendrophyllia Rutteni* spec. nov — Gerth, 1921c: 429, pl. 57 fig. 27-28
*Dendrophyllia Rutteni* Gerth — Gerth, 1925: 67

Syntypes from the Pliocene: Sondé Member near Dessa Garung collected by L.M.R. Rutten (3 specimens RGM.525333 [pl. 40 fig. 15 and pl. 41 fig. 1], RGM.525334 [pl. 41 fig. 2, pl. 41 fig. 3 and pl. 41 fig. 4], RGM.525335 [pl. 41 fig. 5 and pl. 41 fig. 6]), dessa Tlava collected by L.M.R. Rutten (4 specimens RGM.3950 (pl. 57 fig. 27 in Gerth, 1921c) [pl. 41 fig. 7, pl. 41 fig. 8 and pl. 41 fig. 9], RGM.167567 (pl. 57 fig. 28 in Gerth, 1921c) [pl. 41 fig. 10, pl. 41 fig. 11 and pl. 41 fig. 12], RGM.525207 [pl. 41 fig. 13 and pl. 41 fig. 14], RGM.525208 [pl. 41 fig. 15]).

Genus *Dictyaraea* Reuss, 1867
*Dictyaraea anomala* Reuss, 1867

*Dictyaraea anomala* Reuss — Martin, 1880a: 150, pl. 25 fig. 18-19; Umbgrove, 1929a: 68, pl. 1 fig. 5, 9-10

Material from the Upper Miocene locality "Junghuhn P" collected by Junghuhn (2 specimens RGM.3969 (pl. 25 fig. 18 in Martin, 1880a) [pl. 42 fig. 1], RGM.167570 (pl. 25 fig. 19 in Martin, 1880a) [pl. 42 fig. 2]).

*Dictyaraea micrantha* Reuss, 1867

*Dictyaraea micrantha* Reuss — Martin, 1880a: 150, pl. 25 fig. 16-17; Gerth, 1921c: 434; Umbgrove, 1929a: 68-69, pl. 1 fig. 4

Material from the Upper Miocene locality "Junghuhn P" collected by Junghuhn (2 specimens RGM.3977 (pl. 25 fig. 16 in Martin, 1880a) [pl. 42 fig. 3 and pl. 42 fig. 4], RGM.3984 (pl. 25 fig. 17 in Martin, 1880a) [pl. 42 fig. 5 and pl. 42 fig. 6]).

*Dictyaraea micrantha* var. *spinosa* Gerth, 1921c

*Dictyaraea micrantha* Reuss var. *spinosa* var. nov — Gerth, 1921c: 435
*Dictyaraea micrantha* cf. var. *spinosa* — Umbgrove, 1929a: 68, pl. 1 fig. 6-8

Syntypes from the Miocene between Cilintung and Ciangsana collected by R.D.M. Verbeek ("Bezending 1893") (2 specimens RGM.525201 [pl. 42 fig. 7], RGM.525202 [pl. 42 fig. 8]); Nyalingdung Formation of Ciguha collected by K. Martin & Icke (specimen RGM.3987 (5 fragments) [pl. 42 fig. 9]), near Citalahab collected by R.D.M. Verbeek (2 specimens RGM.525203 [pl. 42 fig. 10], RGM.525204 [pl. 42 fig. 11]).

Genus *Diploastrea* Matthai, 1914
*Diploastrea heliopora* (De Lamarck, 1816)
*Diploastrea heliopora* var. *borneensis* Gerth, 1923

*Diploastrea heliopora* (Lam.) var. *borneensis* var. nov — Gerth, 1923: 74
*Diploastrea heliopora* (Lmk.) var. *borneensis* Gerth — Gerth, 1925: 62; Gerth, 1931a: 139
*Diploastraea heliopora* (Lmk.) var. *borneënsis* Gerth — Gerth, 1933: 32-33, 8, 12

Syntypes from the Miocene Pulau Mandul collected by Van Holst Pellekaan in 1916 (2 specimens RGM.525393 [pl. 42 fig. 12 and pl. 42 fig. 13], RGM. 525394 [pl. 42 fig. 14 and pl. 42 fig. 15]).

Genus *Diplohelia* Milne Edwards & Haime, 1850a
*Diplohelia complanata* Gerth, 1923

*Diplohelia complanata* spec. nov — Gerth, 1923: 100, pl. 7 fig. 10-11
*Diplohelia complanata* Gerth — Gerth, 1925: 67; Gerth, 1931a: 143

Syntypes from the Upper Miocene of Tanah Belang collected by Schmidt, leg. 1902 (4 specimens RGM.43005 (pl. 7 fig. 10 in Gerth, 1923) [pl. 43 fig. 1 and pl. 43 fig. 2], RGM.167799 (pl. 7 fig. 11 in Gerth, 1923) [pl. 43 fig. 3 and pl. 43 fig. 4], RGM.525391 [pl. 43 fig. 5 and pl. 43 fig. 6], RGM.525392 [pl. 43 fig. 7 and pl. 43 fig. 8]).

*Diplohelia malayica* Gerth, 1921c

*Diplohelia malayica* spec. nov — Gerth, 1921c: 421-422
*Diplohelia malayica* Gerth — Gerth, 1923: 135, pl. 5 fig. 9; Gerth, 1925: 67; Gerth, 1931a: 143; Gerth, 1933: 39, 9, pl. 2 fig. 5

Syntypes: marl near Kembang Sokkoh collected by K. Martin & Icke (2 specimens RGM.17702 (pl. 5 fig. 9 in Gerth, 1923) [pl. 43 fig. 9], RGM.167562 [pl. 43 fig. 10 and pl. 43 fig. 11]), from the Miocene: West Progo Beds near Kembang Sokkoh collected by K. Martin & Icke (3 samples RGM.3937 (7 fragments) [pl. 43 fig. 12], RGM.3938 [pl. 43 fig. 13, pl. 43 fig. 14 and pl. 43 fig. 15], RGM.3939 [pl. 44 fig. 1 and pl. 44 fig. 2]).

Remarks: The three fragments figured in Gerth (1933) are from the Progo beds near Kembang Sokkoh. Three of the many fragments in samples RGM.3937-'39 probably represent the figured specimens.

Genus *Echinophyllia* Klunzinger, 1879
*Echinophyllia robusta* Gerth, 1923

*Echinophyllia robusta* spec. nov — Gerth, 1923: 108-109, pl. 9 fig. 4
*Echinophyllia robusta* Gerth — Gerth, 1925: 65; Gerth, 1931a: 141; Gerth, 1933: 10

Syntype from the Miocene near Kabasian collected by Witkamp (specimen RGM.43116 (2 fragments) (pl. 9 fig. 4 in Gerth, 1923) [pl. 44 fig. 3, pl. 44 fig. 4 and pl. 44 fig. 5]).

Genus *Echinopora* De Lamarck, 1816
*Echinopora gemmacea* De Lamarck, 1816
*Echinopora gemmacea crassatina* Gerth, 1921c

*Echinopora crassatina* spec. nov — Gerth, 1921c: 419, pl. 55 fig. 14
*Echinopora crassatina* Gerth — Gerth, 1923: 90; Gerth, 1925: 61; Gerth, 1931a: 138, 149; Gerth, 1933: 12
*E. crassatina* — Umbgrove, 1946a: 531

Syntypes from the Miocene in the Ngembak borehole B collected by Van Dijk (4 specimens RGM. 3864 (pl. 55 fig. 14 in Gerth, 1921c) [pl. 44 fig. 6, pl. 44 fig. 7 and pl. 44 fig. 8], RGM.525367 [pl. 44 fig. 9, pl. 44 fig. 10 and pl. 44 fig. 11], RGM.525368 [pl. 44 fig. 12 and pl. 44 fig. 13], RGM.525369).

*Echinopora gemmacea parva* Umbgrove, 1946a

*Echinopora gemmacea parva* Umbgrove, n. var — Umbgrove, 1946a: 531, pl. 79 fig. 3

Holotype from the Lower Pliocene: marl in Tapak beds near Gunung Linggapadang collected by Umbgrove in 1928 (specimen RGM.77636 (pl. 79 fig. 3 in Umbgrove, 1946a) [pl. 44 fig. 14, pl. 44 fig. 15 and pl. 45 fig. 1]).

Paratypes from the Lower Pliocene: marl in Tapak beds near Gunung Linggapadang collected by Umbgrove in 1928 (2 samples RGM.77637 (14 fragments) [pl. 45 fig. 2, pl. 45 fig. 3, pl. 45 fig. 4 and pl. 45 fig. 5], RGM.167668 [pl. 45 fig. 6 and pl. 45 fig. 7], 7 specimens RGM.525348 [pl. 45 fig. 8 and pl. 45 fig. 9], RGM.525349 [pl. 45 fig. 10 and pl. 45 fig. 11], RGM.525350 [pl. 45 fig. 12], RGM.525351 [pl. 45 fig. 13 and pl. 45 fig. 14], RGM.525352 [pl. 45 fig. 15 and pl. 46 fig. 1], RGM.525353 [pl. 46 fig. 2 and pl. 46 fig. 3], RGM.525354).

Remarks: Umbgrove (1946a) studied about 30 fragments.

*Echinopora lamellosa* (Esper, 1795)
*Echinopora porosa* Gerth, 1925 (junior synonym of *Echinopora lamellosa*)

*Echinopora porosa* spec. nov — Gerth, 1925: 31, 24, 61, pl. 5 fig. 3
*Echinopora porosa* Gerth — Gerth, 1931a: 138; Umbgrove, 1946a: 531, pl. 80 fig. 7

Syntypes from the Tertiary of "Tal des Gomo, Nebenfluss des Soesoewa" collected by Schröder (specimen RGM.125798 [pl. 46 fig. 4]), from the Neogene-Quaternary of "Durchbruch des Idane Gawo" collected by Schröder (specimen RGM.125796 (pl.5 fig.3 in Gerth, 1925) [pl. 46 fig. 5 and pl. 46 fig. 6]), near Kampong Onodohalawa collected by Schröder (2 specimens RGM.125797 [pl. 46 fig. 7], RGM.529383 [pl. 46 fig. 8]).

Additional material from the Lower Pliocene: marl in Tapak beds near Gunung Linggapadang collected by Umbgrove in 1928 (specimen RGM.77638 (pl. 80 fig. 7 in Umbgrove, 1946a) [pl. 46 fig. 9 and pl. 46 fig. 10]).

*Echinopora pelarangensis* Gerth, 1923

*Echinopora pelarangensis* spec. nov — Gerth, 1923: 90-91, pl. 5 fig. 7
*Echinopora pelarangensis* Gerth — Gerth, 1925: 61; Gerth, 1931a: 138

Syntypes from the Miocene along the Sungai Pelarang collected by Mühlberg (2 specimens RGM. 43100 [pl. 46 fig. 11 and pl. 46 fig. 12], RGM.43101 (pl. 5 fig. 7 in Gerth, 1923) [pl. 46 fig. 13 and pl. 46 fig. 14]).

Genus *Endopachys* Lonsdale, 1845
*Endopachys grayi* Milne Edwards & Haime, 1848c

*Endopachys grayi* Edwards & Haime — Umbgrove, 1950: 648-650, text-fig. 2, pl. 82 fig. 1-10, pl. 83 fig. 7

Material from the Lower Pleistocene: Mollusc Unit I 50 m north of "W of Mount Bereng" collected by Cosijn (specimen RGM.167695 (pl. 82 fig. 9-10 in Umbgrove, 1950) [pl. 46 fig. 15 and pl. 47 fig. 1]); 'Argillaceous' of Branch of River Sumbergirang collected by Duyfjes on April, 9th, 1933 (5 specimens RGM.78077 (pl. 82 fig. 7 in Umbgrove, 1950), RGM. 78078 (pl. 82 fig. 3-4 in Umbgrove, 1950), RGM. 167696 (pl. 82 fig. 8 in Umbgrove, 1950) [pl. 47 fig. 2 and pl. 47 fig. 3], RGM.167697 (pl. 83 fig. 7 in Umbgrove, 1950) [pl. 47 fig. 4 and pl. 47 fig. 5], RGM. 167698 (pl. 82 fig. 5-6 in Umbgrove, 1950) [pl. 47 fig. 6]).

Genus *Favia* Oken, 1815
*Favia junghuhni* Reuss, 1867

*Favia Junghuhni* Reuss spec — Martin, 1880a: 139-140, pl. 24 fig. 19-20

Material from the Upper Miocene locality "Junghuhn P" collected by Junghuhn (2 specimens RGM.3834 (pl. 24 fig. 20 in Martin, 1880a) [pl. 47 fig. 7 and pl. 47 fig. 8], RGM.167544 (pl. 24 fig. 19 in Martin, 1880a) [pl. 47 fig. 9 and pl. 47 fig. 10]).

*Favia speciosa* Dana, 1846

*Favia speciosa* (Dana) — Umbgrove, 1926: 32-33; Umbgrove, 1946a: 526, pl. 77 fig. 8

Material from the Lower Pliocene near Gunung Linggapadang collected by Umbgrove in 1928

(specimen RGM.77671 (pl. 77 fig. 8 in Umbgrove, 1946a) [pl. 47 fig. 11 and pl. 47 fig. 12]).

Remarks: Grown on a *Cyathoseris lophiophora*.

*Favia* sp.

*Favia* sp — Umbgrove, 1946a: 526, pl. 77 fig. 2

Material from the Lower Pliocene: marl in Tapak beds near Gunung Linggapadang collected by Umbgrove in 1928 (specimen RGM.77603 (pl. 77 fig. 2 in Umbgrove, 1946a) [pl. 47 fig. 13]).

Genus *Favites* Link, 1807
*Favites abdita* (Ellis & Solander, 1786)

*Favites* cf. *F. abdita* (Ellis and Solander) — Umbgrove, 1946a: 526, pl. 77 fig. 3

Material from the Lower Pliocene: marl in Tapak beds near Gunung Linggapadang collected by Umbgrove in 1928 (specimen RGM.77602 (pl. 77 fig. 3 in Umbgrove, 1946a) [pl. 47 fig. 14]).

*Favites borneensis* (Gerth, 1923)

*Prionastraea* cf. *borneensis* spec. nov — Gerth, 1921c: 412
*Prionastraea borneensis* sp. n — Gerth, 1923: 70-71, pl. 3 fig. 7
*Favites borneensis* Gerth — Gerth, 1925: 27, 24, 56; Gerth, 1931a: 133

Syntypes from the Lower Miocene: Nyalingdung Formation near Citalahab collected by R.D.M. Verbeek (specimen RGM.3844 [pl. 47 fig. 15 and pl. 48 fig. 1]), from the Pliocene between Bontang and Sungai Sekambing, west of Rintis Kajan collected by L.M.R. Rutten (specimen RGM.17763 (pl. 3 fig. 7 in Gerth, 1923) [pl. 48 fig. 2 and pl. 48 fig. 3]); Coral Limestone of Hügel near Sekurau collected by Schmidt in 1901 (specimen RGM.43074 [pl. 48 fig. 4 and pl. 48 fig. 5]).

Remarks: The name in Gerth (1921c) is considered a nomen nudum, since no description, diagnosis or figure is presented. The material studied by Gerth (1925) is from sample Schröder 94 in stead of 14.

*Favites pauciseptata* (Gerth, 1923)

*Prionastraea pauciseptata* spec. nov — Gerth, 1923: 71-72, pl. 5 fig. 2
*Favites pauciseptata* Gerth — Gerth, 1925: 56; Gerth, 1931a: 134

Holotype from the Miocene near Kabasian collected by Witkamp (specimen RGM.43069 (pl. 5 fig. 2 in Gerth, 1923) [pl. 48 fig. 6 and pl. 48 fig. 7]).

*Favites pentagona* Esper, 1794
*Favites pentagona tenuis* Umbgrove, 1950

*Favites* spec. 1 — Umbgrove, 1945: 341
*Favites pentagona tenuis* Umbgrove, n. var — Umbgrove, 1946a: 526, pl. 77 fig. 7

Syntypes from the Miocene-Pliocene: Halang beds near Cisande collected by Umbgrove in 1928 (specimen RGM.77511 [pl. 48 fig. 8]), from the Lower Pliocene: marl in Tapak beds near Gunung Linggapadang collected by Umbgrove in 1928 (10 specimens RGM.77597 [pl. 48 fig. 9 and pl. 48 fig. 10], RGM.77599 [pl. 48 fig. 11 and pl. 48 fig. 12], RGM.77601 (pl. 77 fig. 7 in Umbgrove, 1946a) [pl. 48 fig. 13 and pl. 48 fig. 14], RGM.525355 [pl. 48 fig. 15], RGM.525356 [pl. 49 fig. 1], RGM.525357 [pl. 49 fig. 2], RGM.525358-525359 [pl. 49 fig. 3 and pl. 49 fig. 4], RGM.525360 [pl. 49 fig. 5], RGM.525361).

*Metastraea* Milne Edwards & Haime, 1857 (junior synonym of *Favites*)
*Metastraea aegyptorum* Milne Edwards & Haime, 1850b

*Metastraea aegyptorum* M-E. & H — Umbgrove, 1946a: 527, pl. 78 fig. 10

Material from the Lower Pliocene near Gunung Linggapadang collected by Umbgrove, bought by RGM in June, 1955 (specimen RGM.77587 (pl. 78 fig. 10 in Umbgrove, 1946a) [pl. 49 fig. 6 and pl. 49 fig. 7]).

Genus *Flabellum* Lesson, 1831
*Flabellum insulindae* Felix, 1915

*Flabellum Insulindae* n. sp — Felix, 1920: 19-21, 36, pl. 128 fig. 6-8

Syntypes from the Pliocene-Pleistocene of Noil Afaik between Bobo and Nura collected by Molengraaff (specimen THDKA.13650 (pl. 128 fig. 7 in Felix, 1920) [pl. 49 fig. 8 and pl. 49 fig. 9]), of Noil Soesoe along the road from Tjamplong to Bockong collected by Molengraaff during the 1911 Timor expedition (specimen THDKA.13649 (pl. 128 fig. 8-8a in Felix, 1920) [pl. 49 fig. 10 and pl. 49 fig. 11]).

*Flabellum irregulare* Semper, 1872

*Flabellum irregulare* Semp — Gerth, 1921c: 402, pl. 57 fig. 15
*Flabellum irregulare* Semper — Umbgrove, 1924: 5, pl. 1 fig. 11

Material from the Miocene in the Ngembak borehole B collected by Van Dijk (specimen RGM. 3784 (pl. 57 fig. 15 in Gerth, 1921c) [pl. 49 fig. 12 and pl. 49 fig. 13]).

*Flabellum pavonium* Lesson, 1831
*Flabellum pavonium* var. *distinctum* Milne Edwards & Haime, 1848a

*Flabellum distinctum* M. E. u. J. H — Martin, 1880a: 134, pl. 24 fig. 5-8
*Flabellum pavonium* var. *distinctum* E. & H — Umbgrove, 1950: 639, pl. 81 fig. 1-2

Material from the Miocene locality "Junghuhn R" collected by Junghuhn (4 specimens RGM.3788 (pl. 24 fig. 6 in Martin, 1880a) [pl. 49 fig. 14 and pl. 49 fig. 15], RGM.167533 (pl. 24 fig. 5 in Martin, 1880a), RGM.167534 (pl. 24 fig. 7 in Martin, 1880a) [pl. 50 fig. 1 and pl. 50 fig. 2], RGM.167535 (pl. 24 fig. 8 in Martin, 1880a) [pl. 50 fig. 3, pl. 50 fig. 4 and pl. 50 fig. 5]), from the Lower Pleistocene: fossil horizon some m. above Mollusc Unit I of River Kedungpring collected by Cosijn (specimen RGM.77842 (pl. 81 fig. 1-2 in Umbgrove, 1950) [pl. 50 fig. 6 and pl. 50 fig. 7]).

Remarks: Specimen RGM.167533 is not present in the collections of Leiden since before February, 1973.

*Flabellum poseidonis* Felix, 1915

*Flabellum Poseidonis* n. sp — Felix, 1920: 18-19, 36, pl. 128 fig. 5-5a

Holotype from the Pliocene-Pleistocene between Noil Noni and Pene collected by Molengraaff (specimen THDKA.13651 (pl. 128 fig. 5-5a in Felix, 1920) [pl. 50 fig. 8 and pl. 50 fig. 9]).

*Flabellum rubrum* (Quoy & Gaimard, 1833)

*Flabellum rubrum* Quoy & Gaimard — Umbgrove, 1950: 641, text-fig. 1, pl. 81 fig. 5-12

Material from the Lower Pleistocene: Mollusc Unit I 50 m north of "W of Mount Bereng" collected by Cosijn (7 specimens RGM.77860 (pl. 81 fig. 5-6 in Umbgrove, 1950) [pl. 50 fig. 10 and pl. 50 fig. 11], RGM.167676 (pl. 81 fig. 7 in Umbgrove, 1950) [pl. 50 fig. 12 and pl. 50 fig. 13], RGM.167677 (pl. 81 fig. 8 in Umbgrove, 1950) [pl. 50 fig. 14, pl. 50 fig. 15 and pl. 51 fig. 1], RGM.167678 (pl. 81 fig. 9 in Umbgrove, 1950) [pl. 51 fig. 2], RGM.167679 (pl. 81 fig. 10 in Umbgrove, 1950) [pl. 51 fig. 3, pl. 51 fig. 4 and pl. 51 fig. 5], RGM.167680 (pl. 81 fig. 11 in Umbgrove, 1950) [pl. 51 fig. 6], RGM.167681 (pl. 81 fig. 12 in Umbgrove, 1950) [pl. 51 fig. 7]).

*Flabellum variabile* forma *alta* Gerth, 1921c (junior synonym of *Flabellum rubrum*)

*Flabellum variabile* Semp. forma *alta* form. nov — Gerth, 1921c: 401, pl. 57 fig. 16
*Flabellum variabile* forma *alta* (Gerth) — Umbgrove, 1926: 31
*Flabellum variable* Semp. forma *alta* Gerth — Gerth, 1931a: 131

Syntypes from the Pliocene: Sondé Member near Dessa Garung collected by L.M.R. Rutten (2 specimens RGM.525262 [pl. 51 fig. 8 and pl. 51 fig. 9], RGM.525263 [pl. 51 fig. 10 and pl. 51 fig. 11]), of Dessa Gesing collected by L.M.R. Rutten (2 specimens RGM.525260-525261 [pl. 51 fig. 12 and pl. 51 fig. 13]), of Dessa Sahar collected by L.M.R. Rutten (3 specimens RGM.3799 (pl. 57 fig. 16 in Gerth, 1921c) [pl. 51 fig. 14 and pl. 51 fig. 15], RGM.525258 [pl. 52 fig. 1 and pl. 52 fig. 2], RGM.525259 [pl. 52 fig. 3 and pl. 52 fig. 4]).

Remarks: According to its label RGM.3799 is "cf. *Flabellum carinatum*".

*Flabellum stokesi* Milne Edwards & Haime, 1848a

*Flabellum Stokesi* E. u. H — Gerth, 1921c: 402, pl. 57 fig. 14
*Flabellum stokesii* Edwards & Haime — Umbgrove, 1950: 640-641, text-fig. 1, pl. 81 fig. 3-4

Material from the Miocene in the Ngembak borehole B collected by Van Dijk (specimen RGM. 3795 (pl. 57 fig. 14 in Gerth, 1921c) [pl. 52 fig. 5 and pl. 52 fig. 6]), from the Lower Pleistocene: Mollusc Unit II north of village Klagenblandong collected by Cosijn (specimen RGM.77854 (pl. 81 fig. 3-4 in Umbgrove, 1950) [pl. 52 fig. 7 and pl. 52 fig. 8]).

*Flabellum variabile* Semper, 1872 (junior synonym of *Flabellum stokesi*)

*Flabellum variabile* Semp — Gerth, 1921c: 401, pl. 57 fig. 30

Material from the Pliocene: marl in Sondé Member south of Bareng collected by L.M.R. Rutten (specimen RGM.3796 (pl. 57 fig. 30 in Gerth, 1921c) [pl. 52 fig. 9 and pl. 52 fig. 10]).

Genus *Fungia* De Lamarck, 1801
*Fungia actinodiscus* Umbgrove, 1950

*Fungia actinodiscus* Umbgrove, n. sp — Umbgrove, 1950: 647, pl. 82 fig. 11-12

Holotype from the Lower Pleistocene: Mollusc Unit II of Trench to Munungkerep collected by the Dienst Mijnwezen (specimen RGM.77987 (pl. 82 fig. 11-12 in Umbgrove, 1950) [pl. 52 fig. 11 and pl. 52 fig. 12]).

*Fungia borneensis* Gerth, 1925

*Fungia (Cycloseris) patella* (Ell. u. Sol.) forma *borneensis fossilis* — Gerth, 1923: 101-102, pl. 9 fig. 1
*Fungia borneensis* spec. nov — Gerth, 1925: 47
*Fungia (Cycloseris) borneensis* Gerth (*F. patella* Fel.) — Gerth, 1925: 63
*Fungia (Diaseris) borneensis* Gerth — Umbgrove, 1929a: 61, pl. 1 fig. 22-24
*Fungia (Cycloseris) borneensis* Gerth (*F. patella* Fel.) — Gerth, 1931a: 139

Syntypes from the Miocene near Kabasian collected by Witkamp (2 specimens RGM.43122 (pl. 9 fig. 1 in Gerth, 1923) [pl. 52 fig. 13 and pl. 52 fig. 14], RGM.167801 [pl. 52 fig. 15, pl. 53 fig. 1, pl. 53 fig. 2 and pl. 53 fig. 3]).

*Fungia concinna* Verrill, 1865

*Fungia concinna* Verrill — Umbgrove, 1946a: 534, pl. 81 fig. 5-6

Material from the Lower Pliocene near Gunung Linggapadang collected by Umbgrove in 1928 (specimen RGM.77654 (pl. 81 fig. 5 in Umbgrove, 1946a) [pl. 53 fig. 4]), collected by Umbgrove (specimen RGM.77648 (pl. 81 fig. 6 in Umbgrove, 1946a) [pl. 53 fig. 5, pl. 53 fig. 6 and pl. 53 fig. 7]).

*Fungia costulata* Ortmann, 1889

*Fungia costulata* Ortmann — Umbgrove, 1946b: 91, 88, pl. 1 fig. 5-6

Material from the Upper Pliocene: Upper Kalibeng beds along the Soloriver near Bangunredjo Kidul collected by Umbgrove, bought by RGM in June, 1955 (specimen RGM.77772 (2 fragments) (pl. 1 fig. 5-6 in Umbgrove, 1946b) [pl. 53 fig. 8, pl. 53 fig. 9 and pl. 53 fig. 10]).

*Fungia decipiens* (Martin, 1880a)

*Cycloseris decipiens* nov. spec — Martin, 1880a: 143-144, pl. 25 fig. 3-6, pl. 26 fig. 6
Fungia (Cycloseris) decipiens Mart — Gerth, 1921c: 424
*Fungia (Cycloseris) decipiens* Mart — Gerth, 1923: 103
*Fungia (Cycloceris) decipiens* Mart — Gerth, 1925: 34, 24
*Fungia* (*Cycloseris*) *decipiens* Mart. (*Cycloseris nicaeensis* Reuss) — Gerth, 1925: 63
*Fungia (Cycloseris) decipiens* Mart. (*Cycloseris nicaensis* Reuss) — Gerth, 1931a: 139, 148, 149

Syntypes locality "Junghuhn C" collected by Junghuhn (specimen RGM.3884 [pl. 53 fig. 11]), from the Upper Miocene locality "Junghuhn P" collected by Junghuhn (5 specimens RGM.3878 (pl. 25 fig. 3 in Martin, 1880a) [pl. 53 fig. 12, pl. 53 fig. 13 and pl. 53 fig. 14], RGM.167552 (pl. 25 fig. 4 in Martin, 1880a) [pl. 53 fig. 15 and pl. 54 fig. 1], RGM.167553 (pl. 25 fig. 5 in Martin, 1880a) [pl. 54 fig. 2 and pl. 54 fig. 3], RGM.167554 (pl. 25 fig. 6 in Martin, 1880a) [pl. 54 fig. 4 and pl. 54 fig. 5], RGM.167555 [pl. 54 fig. 6 and pl. 54 fig. 7]).

Remarks: Martin (1880a) studied 18 broken specimens from locality "Junghuhn C", locality "Junghuhn O" and locality "Junghuhn P".

*Fungia distorta* Michelin, 1840-1847

*Fungia distorta* Michelin — Umbgrove, 1946a: 533, pl. 81 fig. 3-4

Material from the Lower Pliocene near Gunung Linggapadang collected by Umbgrove in 1928 (2 specimens RGM.77650 (pl. 81 fig. 3 in Umbgrove, 1946a) [pl. 54 fig. 8, pl. 54 fig. 9 and pl. 54 fig. 10], RGM.167669 (pl. 81 fig. 4 in Umbgrove, 1946a)).

Remarks: Umbgrove (1946a) studied eight specimens. A cirriped and two foraminifera are attached to the underside of RGM.167669. The forams attached resemble recent *Heterostegina* specimens to bottoms of dead fungiids.

*Fungia fragilis* Alcock, 1893
*Fungia fragilis* forma *hemispherica* Gerth, 1921c

*Fungia (Cycloseris) patella* Ell. et Sol., forma *hemispherica* form. nov — Gerth, 1921c: 423-424
*Fungia* (*Cycloseris*) *fragilis* Boschma forma *hemisphaerica* Gerth — Gerth, 1925: 63
*Fungia (Cycloseris) fragilis* Boschma forma *hemispherica* Gerth — Gerth, 1931a: 139, 148

Syntypes from the Miocene: Cilanang Formation at Ciburial collected by K. Martin & Icke (8 specimens RGM.3888, RGM.525299 [pl. 54 fig. 11, pl. 54 fig. 12 and pl. 54 fig. 13], RGM.525300 [pl. 54 fig. 14, pl. 54 fig. 15 and pl. 55 fig. 1], RGM.525301 [pl. 55 fig. 2 and pl. 55 fig. 3], RGM.525302 [pl. 55 fig. 4 and pl. 55 fig. 5], RGM.525303 [pl. 55 fig. 6, pl. 55 fig. 7 and pl. 55 fig. 8], RGM.525304 [pl. 55 fig. 9 and pl. 55 fig. 10], RGM.525305 [pl. 55 fig. 11 and pl. 55 fig. 12]).

*Fungia granulicostata* Umbgrove, 1946a

*Fungia granulicostata* Umbgrove, n. sp — Umbgrove, 1946a: 533, pl. 80 fig. 6

Holotype from the Lower Pliocene near Gunung Linggapadang collected by Umbgrove in 1928 (specimen RGM.77646 (pl. 80 fig. 6 in Umbgrove, 1946a) [pl. 55 fig. 13 and pl. 55 fig. 14]).

*Fungia inaequicostata* Gerth, 1925

*Fungia (Cycloseris) inaequicostata* spec. nov — Gerth, 1925: 41, 63, pl. 6 fig. 1-1a
*Fungia (Cycloseris) inaequicostata* Gerth — Gerth, 1931a: 139
*Fungia ineaquicostata* Gerth — Umbgrove, 1946a: 534-535, pl. 81 fig. 8
*Fungia inaequicostata* Gerth — Umbgrove, 1946b: 91, 88

Syntypes from the Miocene near Gunung Linggapadang collected by Bosscha donated to RGM in 1924 (3 specimens RGM.3889 (pl. 6 fig. 1 in Gerth, 1925) [pl. 55 fig. 15], RGM.3890 [pl. 56 fig. 1, pl. 56 fig. 2 and pl. 56 fig. 3], RGM.167556 (pl. 6 fig. 1a in Gerth, 1925) [pl. 56 fig. 4 and pl. 56 fig. 5]).

Additional material from the Pliocene near Gunung Linggapadang collected by Umbgrove in

1928 (specimen RGM.77658 (pl. 81 fig. 8 in Umbgrove, 1946a) [pl. 56 fig. 6 and pl. 56 fig. 7]).

*Fungia praecursor* Umbgrove, 1946a

*Fungia [Herpolitha?] praecursor* Umbgrove, n. sp — Umbgrove, 1946a: 535, pl. 81 fig. 1

Holotype from the Lower Pliocene near Gunung Linggapadang collected by Umbgrove in 1928 (specimen RGM.77663 (pl. 81 fig. 1 in Umbgrove, 1946a) [pl. 56 fig. 8, pl. 56 fig. 9 and pl. 56 fig. 10]).

*Fungia pseudoechinata* Gerth, 1925

*Fungia (Cycloseris) pseudoechinata* spec. nov — Gerth, 1925: 40-41, 63, pl. 6 fig. 2-2a
*Fungia (Cycloseris) pseudochinata* Gerth — Gerth, 1931a: 140
*Fungia* cf. *pseudoechinata* Gerth — Umbgrove, 1946a: 534

Holotype from the Miocene near Gunung Linggapadang collected by Bosscha donated to RGM in 1924 (specimen RGM.3891 (pl. 63 fig. 2-2a in Gerth, 1925) [pl. 56 fig. 11, pl. 56 fig. 12 and pl. 56 fig. 13]).

*Fungia sibogae* Van Der Horst, 1921

*Fungia sibogae* Van der Horst — Umbgrove, 1946b: 90, 88, pl. 1 fig. 1-2

Material from the Upper Pliocene: Upper Kalibeng beds along the Soloriver near Bangunredjo Kidul collected by Umbgrove, bought by RGM in June, 1955 (specimen RGM.77770 (pl. 88 fig. 1-2 in Umbgrove, 1946b) [pl. 56 fig. 14, pl. 56 fig. 15 and pl. 57 fig. 1]).

*Fungia somervillei* Van Der Horst, 1921

*Fungia somervillei* Gardiner — Umbgrove, 1946b: 90, 88, pl. 1 fig. 3-4

Material from the Upper Pliocene: Upper Kalibeng beds along the Soloriver near Bangunredjo Kidul collected by Umbgrove, bought by RGM in June, 1955 (specimen RGM.77771 (pl. 1 fig. 3-4 in Umbgrove, 1946b) [pl. 57 fig. 2, pl. 57 fig. 3 and pl. 57 fig. 4]).

*Fungia subpaumotensis* Umbgrove, 1946a

*Fungia subpaumotensis* Umbgrove, n. sp — Umbgrove, 1946a: 534, pl. 80 fig. 5

Holotype from the Lower Pliocene near Gunung Linggapadang collected by Umbgrove in 1928 (specimen RGM.77653 (pl. 80 fig. 5 in Umbgrove, 1946a) [pl. 57 fig. 5 and pl. 57 fig. 6]).

Genus *Fungophyllia* Gerth, 1923
*Fungophyllia aspera* Gerth, 1923

*Fungophyllia aspera* gen. nov. spec. nov — Gerth, 1923: 65-66, pl. 1 fig. 25, pl. 2 fig. 1
*Fungophyllia aspera* Gerth — Gerth, 1925: 47-48, 43, 64, pl. 7 fig. 4-4a; Gerth, 1931a: 140; Umbgrove, 1939: 63, fig. 9

Syntypes from the Miocene in the Sekurau-anticline collected by L.M.R. Rutten (specimen RGM. 43106 (pl. 1 fig. 25 in Gerth, 1923) [pl. 57 fig. 7 and pl. 57 fig. 8]), along the Sungai Pelarang collected by Mühlberg (specimen RGM.43108 [pl. 57 fig. 9]), from the Lower Miocene in the Sekurau-anticline collected by L.M.R. Rutten (specimen RGM.17709 (pl. 2 fig. 1 in Gerth, 1923) [pl. 57 fig. 10]).

Additional material east of Gunung Kladi (specimen RGM.43107 (pl. 7 fig. 4-4a in Gerth, 1925)), from the Miocene the north coast near Papang collected by Kuenen during the Snellius expedition (specimen RGM.35477a (fig. 9 in Umbgrove, 1939) [pl. 57 fig. 11]).

Remarks: On specimen RGM.43106 is written R37, while the label mentions Coll. Rutten No. 36. According to Gerth (1923) it should be Rutten No. 39. RGM archive 5530032 reads Coll. Rutten 39, while a pencil annotation reads 37. . Needs to be checked if this is indeed the figured specimen.

*Fungophyllia explanata* (Gerth, 1921c)

*Lithophyllia explanata* spec. nov — Gerth, 1921c: 407-408, pl. 55 fig. 1, pl. 56 fig. 7
*Fungophyllia* (*Lithophyllia*) *explanata* Gerth — Gerth, 1925: 64
*Lithophyllia explanata* Gerth — Gerth, 1933: 9
*Fungophyllia explanata* (Gerth) — Umbgrove, 1939: 63

Syntypes from the Miocene: West Progo Beds near Kampong Djunggrangan collected by K. Martin & Icke (2 specimens RGM.525264 (2 fragments) [pl. 57 fig. 12, pl. 57 fig. 13 and pl. 57 fig. 14], RGM. 525265 [pl. 57 fig. 15, pl. 58 fig. 1 and pl. 58 fig. 2]), from the Lower Miocene: West Progo Beds near Kampong Djunggrangan collected by K. Martin & Icke (specimen RGM.3899 (pl. 55 fig. 1, pl. 56 fig. 7 in Gerth, 1921c) [pl. 58 fig. 3, pl. 58 fig. 4 and pl. 58 fig. 5]).

*Fungophyllia millepunctata* Umbgrove, 1939

*Fungophyllia millepunctata* species nova — Umbgrove, 1939: 64, fig. 1-7

Syntypes from the Miocene the north coast near Papang collected by Kuenen during the Snellius expedition (8 specimens RGM.35475 (fig. 1-2 in Umbgrove, 1939) [pl. 58 fig. 6 and pl. 58 fig. 7], RGM. 167661 (fig. 4-5 in Umbgrove, 1939) [pl. 58 fig. 8 and pl. 58 fig. 9], RGM.167662 (fig. 6-7 in Umbgrove, 1939) [pl. 58 fig. 10 and pl. 58 fig. 11], RGM.525382

[pl. 58 fig. 12 and pl. 58 fig. 13], RGM.525383 [pl. 58 fig. 14 and pl. 58 fig. 15], RGM.525384 [pl. 59 fig. 1, pl. 59 fig. 2 and pl. 59 fig. 3], RGM.525385-525386, thin section RGM.35468 (fig. 3 in Umbgrove, 1939) [pl. 59 fig. 4]).

*Fungophyllia monstrosa* Gerth, 1923

*Fungophyllia monstrosa* gen. nov. spec. nov — Gerth, 1923: 65, pl. 2 fig. 2-4
*Fungophyllia monstrosa* Gerth — Gerth, 1925: 64; Gerth, 1931a: 140; Umbgrove, 1939: 64

Syntypes from the Miocene near Kabasian collected by Witkamp (2 specimens RGM.43114 (pl. 2 fig. 2-3 in Gerth, 1923) [pl. 59 fig. 5, pl. 59 fig. 6 and pl. 59 fig. 7], RGM.167783 (pl. 2 fig. 4 in Gerth, 1923) [pl. 59 fig. 8 and pl. 59 fig. 9]).

Genus *Galaxea* Oken, 1815
*Galaxea elegantissima* Umbgrove, 1950

*Galaxea* spec. 1 — Umbgrove, 1945: 341
*Galaxea elegantissima* Umbgrove, n. sp — Umbgrove, 1946a: 525, pl. 78 fig. 6-8

Syntypes from the Miocene-Pliocene: Halang beds near Cisande collected by Umbgrove in 1928 (2 fragments RGM.525338 [pl. 59 fig. 10 and pl. 59 fig. 11], RGM.525339 [pl. 59 fig. 12 and pl. 59 fig. 13], sample RGM.77509, specimen RGM.77510 [pl. 59 fig. 14 and pl. 59 fig. 15]), from the Lower Pliocene: marl in Tapak beds near Gunung Linggapadang collected by Umbgrove in 1928 (specimen RGM.77606 [pl. 60 fig. 1]), collected by Umbgrove (3 specimens RGM. 77605 (pl. 78 fig. 6-8 in Umbgrove, 1946a) [pl. 60 fig. 2], RGM.167665 [pl. 60 fig. 3 and pl. 60 fig. 4], RGM. 525340 [pl. 60 fig. 5 and pl. 60 fig. 6]).

Remarks: Umbgrove (1946a) wrote: "the best preserved specimen, from Gunung Linggapadang, the holotype". It was unclear which specimen this "holotype" should be. He also mentioned: "the largest specimen, from Tjisande". In the captions of his figures 6-8 three(?) "Syntypes" are mentioned. Specimen RGM.77510 is probably the "largest specimen" mentioned in Umbgrove (1946a)

*Galaxea fascicularis* (Linnaeus, 1758)

*Madrepora fascicularis* — Linnaeus, 1758:
*Galaxea fascicularis* (Linné) — Umbgrove, 1946a: 525, pl. 77 fig. 6

Material from the Lower Pliocene: marl in Tapak beds near Gunung Linggapadang collected by Umbgrove in 1928 (specimen RGM.77608 (pl. 77 fig. 6 in Umbgrove, 1946a) [pl. 60 fig. 7 and pl. 60 fig. 8]).

Remarks: RGM.77608 grew on a cf. *Acropora* sp.

*Galaxea junghuhni* Gerth, 1921c

*Galaxea Junghuhni* spec. nov — Gerth, 1921c: 418-419
*Galaxea Junghuhni* Gerth — Gerth, 1923: 90, pl. 4 fig. 8-9; Gerth, 1925: 62
*Galaxea junghuhni* Gerth — Gerth, 1931a: 138, 148, 149

Syntypes: Cilanang Formation at Ciburial (specimen RGM.3866 (about 25 fragments) [pl. 60 fig. 9, pl. 60 fig. 10 and pl. 60 fig. 11]), from the Miocene: Cilanang Formation of Cibining collected by K. Martin & Icke (2 samples RGM.525370 (12 fragments) [pl. 60 fig. 12 and pl. 60 fig. 13], RGM.525371 [pl. 60 fig. 14 and pl. 60 fig. 15], 2 specimens RGM.3865 (pl. 4 fig. 8 in Gerth, 1923) [pl. 61 fig. 1 and pl. 61 fig. 2], RGM.167550 (pl. 4 fig. 9 in Gerth, 1923) [pl. 61 fig. 3 and pl. 61 fig. 4]), from the Upper Miocene locality "Junghuhn P" collected by Junghuhn (specimen RGM.3867 [pl. 61 fig. 5 and pl. 61 fig. 6]).

Genus *Goniastrea* Milne Edwards & Haime, 1848b
*Goniastrea curasavica* Gerth, 1928

*Goniastraea curasavica* spec. nov — Gerth, 1928: 2, pl. 1 fig. 2

Holotype from the Upper Cretaceous: Seroe Teintje Limestone at the top of Seru Bomba Bua (specimen RGM.45825 (2 fragments) (pl. 1 fig. 2 in Gerth, 1928) [pl. 61 fig. 7]).

*Goniastrea progoensis* Gerth, 1921c

*Goniastraea progoënsis* spec. nov — Gerth, 1921c: 413-414, pl. 56 fig. 1
*Goniastraea progoensis* Gerth — Gerth, 1925: 57; Gerth, 1931a: 134
*Goniastraea progoënsis* Gerth — Gerth, 1933: 9

Holotype from the Lower Miocene: West Progo Beds near Puntuk Tedjo collected by K. Martin & Icke (specimen RGM.3831 ( in Gerth, 1921c) [pl. 61 fig. 8, pl. 61 fig. 9 and pl. 61 fig. 10]).

*Goniastrea simplicitexta* Umbgrove, 1942

*Goniastraea simplicitexta* Umbgrove — Umbgrove, 1946a: 527, pl. 78 fig. 1

Material from the Lower Pliocene: marl in Tapak beds near Gunung Linggapadang collected by Umbgrove, bought by RGM in June, 1955 (specimen RGM.77589 (pl. 78 fig. 1 in Umbgrove, 1946a) [pl. 61 fig. 11 and pl. 61 fig. 12]).

Genus *Goniopora* De Blainville, 1830
*Goniopora astraeoides* (Martin, 1880a)

*Litharaea astraeoides* nov. spec — Martin, 1880a: 148, pl. 25 fig. 14-15, pl. 26 fig. 9
*Litharaea astraeoides* K. Martin — Gerth, 1921c: 434
*Goniopora astraeoides* Martin — Gerth, 1923: 119
*Goniopora (Litharaea) astraeoides* Mart — Gerth, 1925: 68
*Goniopora (Litharaea) astraeoides* Mart — Gerth, 1931a: 144,148

Syntypes from the Upper Miocene-Pliocene locality "Junghuhn O" collected by Junghuhn (2 specimens RGM.3967 (2 fragments) (pl. 25 fig. 15 in Martin, 1880a) [pl. 61 fig. 13 and pl. 61 fig. 14], RGM. 167569 (pl. 25 fig. 14 in Martin, 1880a) [pl. 61 fig. 15 and pl. 62 fig. 1]).

*Goniopora planulata* (Ehrenberg, 1834)

*Goniopora planulata* (Ehrenb.) — Gerth, 1923: 118, pl. 9 fig. 6
*Goniopora planulata* (Ehrenberg) — Umbgrove, 1939: 65, fig. 8

Material from the Miocene near Kabasian collected by Witkamp (specimen RGM.17698 (pl. 9 fig. 6 in Gerth, 1923) [pl. 62 fig. 2 and pl. 62 fig. 3]), the north coast near Papang collected by Kuenen during the Snellius expedition (specimen RGM.35487 (fig, 8 in Umbgrove, 1939) [pl. 62 fig. 4]).

*Goniopora tenuidens* (Quelch, 1886)

*Goniopora tenuidens* (Quelch) — Umbgrove, 1946a: 540, pl. 82 fig. 4

Material from the Lower Pliocene: marl in Tapak beds near Gunung Linggapadang collected by Umbgrove in 1928 (specimen RGM.77693 (pl. 82 fig. 4 in Umbgrove, 1946a) [pl. 62 fig. 5 and pl. 62 fig. 6]).

Genus *Gyrosmilia* Milne Edwards & Haime, 1851b
*Gyrosmilia diadema* Umbgrove, 1950

*Gyrosmilia diadema* Umbgrove, n. sp — Umbgrove, 1950: 645-646, pl. 84 fig. 4-6

Holotype from the Lower Pleistocene: Mollusc Unit II north-northeast of village Sumberringin collected by Cosijn (specimen RGM.77970 (pl. 84 fig. 4-6 in Umbgrove, 1950) [pl. 62 fig. 7 and pl. 62 fig. 8]).

Genus *Halomitra* Dana, 1846
*Halomitra vetusta* (Gerth, 1925)

*Doederleinia vetusta* spec. nov — Gerth, 1925: 39-40, pl. 6 fig. 3-3a
*Döderleinia vetusta* Gerth — Gerth, 1925: 63
*Doederleinia vetusta* Gerth — Gerth, 1931a: 140
*Halomitra vetusta* (Gerth) — Umbgrove, 1946a: 535, pl. 80 fig. 4

Holotype from the Miocene near Gunung Linggapadang collected by Bosscha donated to RGM in 1924 (specimen RGM.3892 (pl. 6 fig. 3-3a in Gerth, 1925) [pl. 62 fig. 9, pl. 62 fig. 10 and pl. 62 fig. 11]).

Additional material from the Lower Pliocene near Gunung Linggapadang collected by Umbgrove in 1928 (specimen RGM.77664 (pl. 80 fig. 4 in Umbgrove, 1946a) [pl. 62 fig. 12 and pl. 62 fig. 13]).

Genus *Heterocyathus* Milne Edwards & Haime, 1848a
Typespecies *Heterocyathus aequicostatus* Milne Edwards & Haime, 1848a

*Heterocyathus æquicostatus* — Milne Edwards & Haime, 1848a: 324, pl. 10 fig. 8
Heterocyathus æquicostatus — Milne Edwards & Haime, 1857: 51
*Heterocyathus aequicostatus* Edwards & Haime — Umbgrove, 1950: 643

Material from the Pliocene: Sondé Member near Sondé collected by R.D.M. Verbeek (specimen RGM. 3769 (pl. 55 fig. 4, pl. 57 fig. 13 in Gerth, 1921c) [pl. 62 fig. 14, pl. 62 fig. 15 and pl. 63 fig. 1]).

Remarks: Umbgrove (1950) synonymised *Heterocyathus phillipinensis*, *Heterocyathus parasiticus*, *Heterocyathus oblongatus*, *Heterocyathus elberti*, *Heterocyathus sandalinus*, *Heterocyathus rembangensis*, *Heterocyathus rousseanus* (spelled as *H. rousseaui*) in Gerth (1922), in Umbgrove (1926) and in Umbgrove (1929a) and *H.* cf. *rousseaui* in Gerth (1925) with *Heterocyathus aequicostatus*.

*Heterocyathus elberti* Felix, 1913 (junior synonym of *Heterocyathus aequicostatus*)

*Heterocyathus Elberti* Flx — Felix, 1915: 38-40, pl. 38 fig., 5
*Heterocyathus Elberti* Fel — Gerth, 1921c: 395-396, pl. 57 fig. 12
*Hetherocyathus elberti* Felix — Gerth, 1952: 119, 120, pl. 6 fig. 12

Material from the Lower Miocene: Rembang Beds of Panowan River collected by Gonggrijp (specimen RGM.3764 (pl. 57 fig. 12 in Gerth, 1921c) [pl. 63 fig. 2, pl. 63 fig. 3 and pl. 63 fig. 4]).

*Heterocyathus parasiticus* Semper, 1872 (junior synonym of *Heterocyathus aequicostatus*)

*Heterocyathus parasiticus* Semp — Gerth, 1921c: 396-397, pl. 57 fig. 1-2; Gerth, 1952: 119, 120, pl. 6 fig. 1-3, 13

Material from the Miocene in the Ngembak borehole B collected by Van Dijk (2 specimens RGM. 3765 (pl. 57 fig. 2 in Gerth, 1921c), RGM.3766 (pl. 57 fig. 1 in Gerth, 1921c)).

Remarks: Gerth (1952) figured one specimen from the Miocene of Ngembak (boring), one specimen from the Pliocene of Kali Tjemoro and one specimen from the upper Tertiary of Sarawak. These specimens could not be retrieved in NNM.

*Heterocyathus rembangensis* Gerth, 1921c (junior synonym of *Heterocyathus aequicostatus*)

*Heterocyathus rembangensis* spec. nov — Gerth, 1921c: 397, pl. 57 fig. 6-7
*Heterocyathus rembangensis* Gerth — Gerth, 1925: 51; Gerth, 1931a: 130; Gerth, 1952: 119, 120, pl. 6 fig. 6-7

Syntypes from the Lower Miocene: Rembang Beds of Ngampel collected by K. Martin & Icke (2 specimens RGM.3772 (pl. 57 fig.6-7 in Gerth, 1921c) [pl. 63 fig. 5 and pl. 63 fig. 6], RGM.167526 [pl. 63 fig. 7, pl. 63 fig. 8 and pl. 63 fig. 9]).

*Heterocyathus sandalinus* Gerth, 1921c (junior synonym of *Heterocyathus aequicostatus*)

*Heterocyathus sandalinus* spec. nov — Gerth, 1921c: 397, pl. 57 fig. 3-5
*Heterocyathus sandalinus* Gerth — Gerth, 1925: 51; Gerth, 1931a: 130, 147; Gerth, 1952: 119, 120, pl. 6 fig. 4-5

Syntypes from the Miocene Kali Tjemoro collected by R.D.M. Verbeek ("Bezending 1893") (specimen RGM.3768 (pl. 57 fig. 5 in Gerth, 1921c)), from the Upper Miocene: Cilanang Formation at Ciburial collected by K. Martin & Icke June, 5th (2 specimens RGM.3767 (pl. 57 fig. 3-5 in Gerth, 1921c) [pl. 63 fig. 10, pl. 63 fig. 11 and pl. 63 fig. 12], RGM.167523 [pl. 63 fig. 13, pl. 63 fig. 14 and pl. 63 fig. 15]).

*Heterocyathus rousseanus* Milne Edwards & Haime, 1848a

*Heterocyathus Roussæanus* — Milne Edwards & Haime, 1848a: 324-325, pl. 10 fig. 9-9a
*Stephanoseris Rousseaui* — Milne Edwards & Haime, 1851a: 117
*Stephanoseris Rousseaui* — Milne Edwards, 1860: 57
*Heterocyathus Rousseaui* E. u. H — Gerth, 1921c: 398, pl. 55 fig. 4, pl. 57 fig. 13
*Heterocyathus Rousseaui* (E. H.) — Umbgrove, 1926: 30
*Heterocyathus Rousseaui* E. H — Umbgrove, 1929a: 58
*Heterocyathus (Stephanoseris) rousseaui* Edw. u. H — Gerth, 1952: 119, 120, pl. 6 fig. 10-11

Material from the Pliocene: Sondé Member near Sondé collected by R.D.M. Verbeek (specimen RGM. 3769 (pl. 55 fig. 4, pl. 57 fig. 13 in Gerth, 1921c) [pl. 62 fig. 14, pl. 62 fig. 15 and pl. 63 fig. 1]).

Remarks: Milne Edwards & Haime (1848a) based their species on a recent coral from Zanzibar, specimen should be stored in Paris. Umbgrove (1950) transferred the Indonesian fossil specimens earlier named as *Heterocyathus rousseanus* to *Heterocyathus aequicostatus*. It is not clear whether Gerth (1952) did not know the publication of Umbgrove or that he did not agree.

Genus *Heteropsammia* Milne Edwards & Haime, 1848c
*Heteropsammia cochlea* (Spengler, 1781)

*Heteropsammia* cf. *ovalis* Semp — Gerth, 1921c: 430, pl. 57 fig. 8-9
*Heteropsammia cochlea* (Spengler) — Umbgrove, 1950: 648
*Heteropsammia* cf. *ovalis* Semp — Gerth, 1952: 121, pl. 6 fig. 8-9

Material from the Miocene of Beberkiri river collected by Van Dijk (specimen RGM.3953 (pl. 6 fig. 8-9 in Gerth, 1952, pl. 57 fig. 8-9 in Gerth, 1921c) [pl. 64 fig. 1 and pl. 64 fig. 2]).

*Heteropsammia ovalis* Semper, 1872

Material from the Miocene of Beberkiri river collected by Van Dijk (specimen RGM.3953 (pl. 6 fig. 8-9 in Gerth, 1952, pl. 57 fig. 8-9 in Gerth, 1921c) [pl. 64 fig. 1 and pl. 64 fig. 2]).

Genus *Hydnophora* Fischer von Waldheim, 1807
*Hydnophora astraeoides* Martin, 1880a

*Hydnophora astraeoides* nov. spec — Martin, 1880a: 138, pl. 24 fig. 18, pl. 26 fig. 3
*Hydnophora astraeoides* Mart — Gerth, 1921c: 415; Gerth, 1923: 80; Gerth, 1925: 59; Gerth, 1931a: 136,148

Holotype from the Miocene locality "Junghuhn N" collected by Junghuhn (specimen RGM.3848 (3 fragments) (pl. 26 fig. 3 in Martin, 1880a) [pl. 64 fig. 3, pl. 64 fig. 4 and pl. 64 fig. 5]).

*Hydnophora crassa* Martin, 1880a

*Hydnophora crassa* nov. spec — Martin, 1880a: 138, pl. 24 fig. 17
*Hydnophora crassa* Mart — Gerth, 1925: 59; Gerth, 1931a: 136, 148

Holotype from the Upper Miocene-Pliocene locality "Junghuhn O" collected by Junghuhn (specimen RGM.3850 (pl. 24 fig. 17 in Martin, 1880a) [pl. 64 fig. 6 and pl. 64 fig. 7]).

*Hydnophora exesa* (Pallas, 1766)
*Coeloria arborescens* Martin, 1880a (junior synonym of *Hydnophora exesa*)

*Coeloria arborescens* nov. spec — Martin, 1880a: 137-138, pl. 24 fig. 15-16
*Hydnophora exesa* (Pall.) (*Coeloria arborescens* Mart.) — Gerth, 1925: 59

Syntypes from the Upper Miocene-Pliocene locality "Junghuhn O" collected by Junghuhn (3 specimens RGM.3851 (2 fragments) (pl. 24 fig. 15 in Martin, 1880a) [pl. 64 fig. 8], RGM.167546 (pl. 24 fig. 16 in Martin, 1880a) [pl. 64 fig. 9 and pl. 64 fig. 10], RGM.167547 [pl. 64 fig. 11]).

*Hydnophora grandis* Gardiner, 1906

*Hydnophora grandis* Gardiner — Umbgrove, 1946a: 529, pl. 78 fig. 11

Material from the Lower Pliocene near Gunung Linggapadang collected by Umbgrove, bought by RGM in June, 1955 (specimen RGM.77583 (pl. 78 fig. 11 in Umbgrove, 1946a) [pl. 64 fig. 12]).

*Hydnophora solidior* (Duncan, 1880)

*Monticularia solidior* Dunc — Gerth, 1923: 80-81, pl. 5 fig. 4
*Hydnophora solidior* (Duncan) — Umbgrove, 1946a: 530, pl. 78 fig. 4-5

Material from the Miocene above Murung Brunei at Sungai Tabalong collected by Buxtorf (specimen RGM.43077 (pl. 5 fig. 4 in Gerth, 1923) [pl. 64 fig. 13 and pl. 64 fig. 14]), from the Lower Pliocene: marl in Tapak beds near Gunung Linggapadang collected by Umbgrove in 1928 (specimen RGM.77625 (pl. 78 fig. 4, 5 in Umbgrove, 1946a) [pl. 64 fig. 15 and pl. 65 fig. 1]).

*Hydnophora tenella* Quelch, 1886

*Hydnophora tenella* Quelch — Umbgrove, 1946a: 529-530, pl. 78 fig. 2-3

Material from the Lower Pliocene: marl in Tapak beds near Gunung Linggapadang collected by Umbgrove in 1928 (2 specimens RGM.77623 (pl. 78 fig. 2 in Umbgrove, 1946a) [pl. 65 fig. 2], RGM. 167667 (pl. 78 fig. 3 in Umbgrove, 1946a) [pl. 65 fig. 3]).

*Hydnophora* sp.

*Hydnophora* sp — Umbgrove, 1946a: 530, pl. 79 fig. 2

Material from the Lower Pliocene: marl in Tapak beds near Gunung Linggapadang collected by Umbgrove in 1928 (specimen RGM.77624 (pl. 79 fig. 2 in Umbgrove, 1946a) [pl. 65 fig. 4 and pl. 65 fig. 5]).

Genus *Hydnophyllia* Reis, 1890
*Hydnophyllia applanata* Gerth, 1923

*Hydnophyllia applanata* spec. nov — Gerth, 1923: 76-77, pl. 5 fig. 1
*Hydnophyllia applanata* Gerth — Gerth, 1925: 55; Umbgrove, 1929a: 59, pl. 2 fig. 28; Gerth, 1931a: 133, 146

Syntype from the Upper Miocene of west of Gunung Batuta and south of Sungai Bungalun collected by L.M.R. Rutten (specimen RGM.43075 (pl. 5 fig. 1 in Gerth, 1923) [pl. 65 fig. 6, pl. 65 fig. 7 and pl. 65 fig. 8]).

Remarks: According to Gerth (1923) the stratigraphic level is Upper Miocene, according to the label it is from the Lower Miocene.

*Hydnophyllia malayica* Gerth, 1923

*Hydnophyllia malayica* spec. nov — Gerth, 1923: 76, pl. 3 fig. 8, pl. 7 fig. 1
*Hydnophyllia malayica* Gerth — Gerth, 1925: 45, 43, 55; Gerth, 1931a: 133

Syntypes from the Miocene near Kabasian collected by Witkamp (2 specimens RGM.43056 (pl. 3 fig. 8 in Gerth, 1923) [pl. 65 fig. 9, pl. 65 fig. 10 and pl. 65 fig. 11], RGM.167788 (pl. 7 fig. 1 in Gerth, 1923) [pl. 65 fig. 12, pl. 65 fig. 13 and pl. 65 fig. 14]).

Genus *Indophyllia* Gerth, 1921c
*Indophyllia borneensis* Gerth, 1923

*Indophyllia borneensis* spec. nov — Gerth, 1923: 68-69, pl. 1 fig. 24, pl. 2 fig. 6-7
*Indophyllia borneensis* Gerth — Gerth, 1925: 55; Gerth, 1931a: 132

Syntypes from the Upper Miocene: Upper Balikpapan layers along the Sungai Gelingseh collected by L.M.R. Rutten (5 specimens RGM.17699 [pl. 65 fig. 15, pl. 66 fig. 1 and pl. 66 fig. 2], RGM.43055 (pl. 1 fig. 24 in Gerth, 1923) [pl. 66 fig. 3, pl. 66 fig. 4 and pl. 66 fig. 5], RGM.167785 (pl. 2 fig. 6-7 in Gerth, 1923) [pl. 66 fig. 6, pl. 66 fig. 7 and pl. 66 fig. 8], RGM.525389 [pl. 66 fig. 9 and pl. 66 fig. 10], RGM. 525390 [pl. 66 fig. 11, pl. 66 fig. 12, pl. 66 fig. 13 and pl. 66 fig. 14]).

Typespecies *Indophyllia cylindrica* Gerth, 1921c

*Indophyllia cylindrica* spec. nov — Gerth, 1921c: 406, pl. 56 fig. 3, pl. 57 fig. 40
*Indophyllia cylindrica* Gerth — Gerth, 1923: 69-70, pl. 2 fig. 8-9; Gerth, 1925: 55; Gerth, 1931a: 132; Gerth, 1933: 11
*Indophyllia cylindrica* — Wells, 1956: F407, fig. 305,1a-b

Holotype from the Lower Miocene: Rembang Beds of Panowan River collected by Gonggrijp (specimen RGM.3821 (5 fragments) (fig. 305 in Wells, 1956, pl. 56 fig. 3, pl. 57 fig. 40 in Gerth, 1921c) [pl. 66 fig. 15, pl. 67 fig. 1, pl. 67 fig. 2 and pl. 67 fig. 3]).

Additional material from the Upper Miocene: Upper Balikpapan layers along the Sungai Gelingseh collected by L.M.R. Rutten (specimen RGM.17700 (pl. 2 fig. 8-9 in Gerth, 1923) [pl. 67 fig. 4, pl. 67 fig. 5 and pl. 67 fig. 6]).

Remarks: The figure in Wells (1956) is drawn after the pictures in Gerth (1921c).

Genus *Javanoseris* Gerth, 1921c
*Javanoseris sinuata* Gerth, 1921c

*Javanoseris sinuata* gen. nov. spec. nov — Gerth, 1921c: 424-425, pl. 57 fig. 21-22
*Javanoseris sinuata* Gerth — Gerth, 1925: 64; Gerth, 1931a: 140, 148

Syntypes from the Miocene: Cilanang Formation at Ciburial collected by K. Martin & Icke (3 fragments RGM.525320 [pl. 67 fig. 7, pl. 67 fig. 8 and pl. 67 fig. 9], RGM.525322-525323, 46 specimens RGM. 525268 [pl. 67 fig. 10 and pl. 67 fig. 11], RGM.525269 [pl. 67 fig. 12 and pl. 67 fig. 13], RGM.525270 [pl. 67 fig. 14], RGM.525271 [pl. 67 fig. 15 and pl. 68 fig. 1], RGM.525272 [pl. 68 fig. 2 and pl. 68 fig. 3], RGM. 525273 [pl. 68 fig. 4, pl. 68 fig. 5 and pl. 68 fig. 6], RGM.525274-525275 [pl. 68 fig. 7 and pl. 68 fig. 8], RGM.525276 [pl. 68 fig. 9 and pl. 68 fig. 10], RGM. 525277 [pl. 68 fig. 11 and pl. 68 fig. 12], RGM.525278-525281 [pl. 68 fig. 13 and pl. 68 fig. 14], RGM.525282-525283 [pl. 68 fig. 15 and pl. 69 fig. 1], RGM.525284-525285 [pl. 69 fig. 2 and pl. 69 fig. 3], RGM.525286 [pl. 69 fig. 4], RGM.525287-525288 [pl. 69 fig. 5], RGM.525289-525291, RGM.525293-525294 [pl. 69 fig. 6], RGM.525295, RGM.525306-525313 [pl. 69 fig. 7], RGM.525315-525319, RGM.525321 [pl. 69 fig. 8 and pl. 69 fig. 9], RGM.525324-525328), from the Upper Miocene: "grauen Tuffmergel" in Cilanang Formation at Ciburial collected by K. Martin & Icke (2 specimens RGM.3894 (pl. 57 fig. 22 in Gerth, 1921c) [pl. 69 fig. 10 and pl. 69 fig. 11], RGM.167557 (pl. 57 fig. 21 in Gerth, 1921c) [pl. 69 fig. 12 and pl. 69 fig. 13]).

Remarks: RGM.525321 consists of two fragments of different specimens kitted together.

Genus *Leptastrea* Milne Edwards & Haime, 1848b
*Leptastrea purpurea* (Dana, 1846)

*Leptastrea purpurea* (Dana) — Umbgrove, 1946a: 525, pl. 77 fig. 1

Material from the Lower Pliocene: marl in Tapak beds near Gunung Linggapadang collected by Umbgrove in 1928 (specimen RGM.77609 (pl. 77 fig. 1 in Umbgrove, 1946a) [pl. 69 fig. 14 and pl. 69 fig. 15]).

Genus *Leptoria* Milne Edwards & Haime, 1848b
*Leptoria concentrica* Duncan, 1880

*Leptoria concentrica* Duncan — Gerth, 1923: 81-82, pl. 5 fig. 3

Material from the Miocene above Murung Brunei at Sungai Tabalong collected by Buxtorf (specimen RGM.43084 (pl. 5 fig. 3 in Gerth, 1923) [pl. 70 fig. 1 and pl. 70 fig. 2]).

Genus *Leptoseris* Milne Edwards & Haime, 1849
*Leptoseris alternans* Gerth, 1923

*Leptoseris alternans* spec. nov — Gerth, 1923: 106-107, pl. 8 fig. 3
*Leptoseris alternans* Gerth — Gerth, 1925: 65; Gerth, 1931a: 141

Syntype from the Lower Miocene: Pulau Balang Beds in the anticline south of Sungai Bungalun collected by L.M.R. Rutten (specimen RGM.43128 (pl. 8 fig. 3 in Gerth, 1923) [pl. 70 fig. 3 and pl. 70 fig. 4]).

*Leptoseris floriformis* Gerth, 1923

*Leptoseris floriformis* spec. nov — Gerth, 1923: 107-108, pl. 8 fig. 2
*Leptoseris floriformis* Gerth — Gerth, 1925: 65; Gerth, 1931a: 141
*Leptoseris* sp. cf. *L. floriformis* Gerth, 1923 — Wells, 1964: 1106, pl. 298 fig. 6

Holotype from the Miocene near Kabasian collected by Witkamp (specimen RGM.43126 (pl. 8 fig. 2 in Gerth, 1923) [pl. 70 fig. 5 and pl. 70 fig. 6]).

*Leptoseris* sp.

*Leptoseris* spec — Gerth, 1923: 107, pl. 9 fig. 3

Material from the Miocene along the Sungai Pelarang collected by Mühlberg (specimen RGM. 43130 (about 5 fragments) (pl. 9 fig. 3 in Gerth, 1923) [pl. 70 fig. 7 and pl. 70 fig. 8]).

Genus *Madracis* Milne Edwards & Haime, 1849
*Madracis myriaster* (Milne Edwards & Haime, 1850b)

*Axhelia myriaster*, nob — Milne Edwards & Haime, 1850a: xxi
*Axhelia myriaster* — Milne Edwards & Haime, 1850b: 92, pl. 4 fig. 6
*Madracis* cf. *myriaster* E. H — Gerth, 1925: 33, 24, 67, pl. 5 fig. 8

Material from the Neogene-Quaternary near Kampong Onodohalawa collected by Schröder (specimen RGM.17982 (pl. 5 fig. 8 in Gerth, 1925) [pl. 70 fig. 9]).

Genus *Madrepora* Linnaeus, 1758
*Amphelia* Milne Edwards & Haime, 1849 (junior synonym of *Madrepora*)
*Amphelia alternans* Gerth, 1923

*Amphihelia alternans* spec. nov — Gerth, 1923: 99, pl. 5 fig. 8, pl. 6 fig. 8-9
*Amphihelia alternans* Gerth — Gerth, 1925: 67; Gerth, 1931a: 143

Syntypes from the Upper Miocene: Upper Balikpapan layers in the Gunung Batu-Anticline collected by L.M.R. Rutten (2 specimens RGM.43006 (pl. 5 fig. 8 in Gerth, 1923) [pl. 70 fig. 10 and pl. 70 fig. 11], RGM.167797 (pl. 6 fig. 8 in Gerth, 1923) [pl. 70 fig. 12 and pl. 70 fig. 13]), along the Sungai Gelingseh collected by L.M.R. Rutten (sample RGM.43008 (4 specimens) [pl. 70 fig. 14 and pl. 70 fig. 15], specimen

RGM.167798 (pl. 6 fig. 9 in Gerth, 1923) [pl. 71 fig. 1 and pl. 71 fig. 2]).

Genus *Merulina* Ehrenberg, 1834
*Merulina ampliata* Ellis & Solander, 1786

*Merulina ampliata* (Ellis and Solander) — Umbgrove, 1946a: 530, pl. 79 fig. 5-6

Material from the Upper Miocene-Pliocene locality "Junghuhn O" collected by Junghuhn (specimen RGM.3851 (2 fragments) (pl. 24 fig. 15 in Martin, 1880a) [pl. 64 fig. 8]), from the Lower Pliocene: marl in Tapak beds near Gunung Linggapadang collected by Umbgrove in 1928 (specimen RGM.77626 (pl. 79 fig. 5-6 in Umbgrove, 1946a) [pl. 71 fig. 3]).

Genus *Montipora* De Blainville, 1830
*Montipora dubiosa* Gerth, 1921c

*Montipora dubiosa* spec. nov — Gerth, 1921c: 432-433, pl. 56 fig. 16-17
*Montipora dubiosa* Gerth — Gerth, 1923: 116; Gerth, 1925: 70; Gerth, 1931a: 145, 148

Syntypes from the Miocene: Nyalingdung Formation near Citalahab (2 specimens RGM.525329 [pl. 71 fig. 4 and pl. 71 fig. 5], RGM.525330 [pl. 71 fig. 6 and pl. 71 fig. 7]), collected by R.D.M. Verbeek (specimen RGM.4002 (pl. 56 fig. 16 in Gerth, 1921c) [pl. 71 fig. 8 and pl. 71 fig. 9]), from the Lower Miocene: Nyalingdung Formation near Citalahab collected by R.D.M. Verbeek (2 specimens RGM.4001 (pl. 56 fig. 17 in Gerth, 1921c) [pl. 71 fig. 10 and pl. 71 fig. 11], RGM.4004 [pl. 71 fig. 12 and pl. 71 fig. 13]).

Genus *Montlivaltia* Lamouroux, 1821
*Montlivaltia delabechii* Milne Edwards & Haime, 1851c
*Montlivaltia delabechii* forma *andina* Gerth, 1928

*Montlivaultia Delabechii* E. u. H. forma *andina* f. n — Gerth, 1928: 9, pl. 2 fig. 3-3a

Syntype from the Callovian along Rapala-Catan- Sil-"Karrenweg" near the source of Arrogo los Molles collected by Weaver (specimen RGM.143061).

*Montlivaltia gigas* Vinassa de Regny, 1915

*Montlivaltia gigas* n. f — Vinassa de Regny, 1915: 98-99, pl. 70(8) fig. 12-13

Syntypes from the Triassic of Fatu Nemassi collected by Molengraaff during the 1911 Timor expedition (2 specimens THDKA.12832 (pl. 70 (8) fig. 12-13 in Vinassa de Regny, 1915) [pl. 71 fig. 14 and pl. 71 fig. 15], THDKA.12833 [pl. 72 fig. 1 and pl. 72 fig. 2]).

*Montlivaltia stylophylloides* Vinassa de Regny, 1915

*Montlivaltia stylophylloides* n. f — Vinassa de Regny, 1915: 100-101, pl. 68(6) fig. 3-6

Syntypes from the Upper Triassic along a path from Maubesi to Nununai, east of Fafi Nesi collected by Molengraaff (2 specimens RGM.529384 (2 fragments) (pl. 68(6) fig. 5-6 in Vinassa de Regny, 1915) [pl. 72 fig. 3], THDKA.12835 (pl. 68(6) fig. 3-4 in Vinassa de Regny, 1915) [pl. 72 fig. 4, pl. 72 fig. 5 and pl. 72 fig. 6]).

*Montlivaltia timorica* Vinassa de Regny, 1915

*Montlivaltia timorica* n. f — Vinassa de Regny, 1915: 97-98, pl. 70(8) fig. 4-7

Syntypes from the Upper Triassic of Fatu Nemassi collected by Molengraaff (2 specimens RGM.529385 (2 fragments) (pl. 70(8) fig. 7? in Vinassa de Regny, 1915) [pl. 72 fig. 7 and pl. 72 fig. 8], THDKA.12834 (pl. 70(8) fig. 4-6 in Vinassa de Regny, 1915) [pl. 72 fig. 9 and pl. 72 fig. 10]).

Genus *Multicolumnastraea* Vaughan, 1899
*Multicolumnastraea parvula* Gerth, 1928

*Multicolumnastraea parvula* spec. nov — Gerth, 1928: 3, 14, pl. 1 fig. 3

Syntype from the Upper Cretaceous: Seroe Teintje Limestone of Northside Seroe Hoba collected by Molengraaff (specimen RGM.45838 (1 thin section, 3 fragments) (pl. 1 fig. 3 in Gerth, 1928) [pl. 72 fig. 11 and pl. 72 fig. 12]).

Genus *Mussa* Oken, 1815
*Lithophyllia* Milne Edwards & Haime, 1857 (junior synonym of *Mussa*)
*Lithophyllia spinosa* Gerth, 1921c

*Lithophyllia spinosa* spec. nov — Gerth, 1921c: 406-407, pl. 55 fig. 13, pl. 56 fig. 22
*Lithophyllia spinosa* Gerth — Gerth, 1925: 54; Gerth, 1931a: 132; Gerth, 1933: 20, 9, 11, pl. 3 fig. 4-4b

Syntypes from the Miocene: West Progo Beds near Gunung Spolong collected by K. Martin & Icke (6 specimens RGM.525238 [pl. 72 fig. 13 and pl. 72 fig. 14], RGM.525239 [pl. 72 fig. 15 and pl. 73 fig. 1], RGM.525240 [pl. 73 fig. 2 and pl. 73 fig. 3], RGM. 525241 [pl. 73 fig. 4 and pl. 73 fig. 5], RGM.525242 [pl. 73 fig. 6 and pl. 73 fig. 7], RGM.525243), near Kembang Sokkoh collected by K. Martin & Icke (3 specimens RGM.525296 [pl. 73 fig. 8 and pl. 73 fig. 9], RGM.525297 [pl. 73 fig. 10 and pl. 73 fig. 11], RGM.525298 [pl. 73 fig. 12 and pl. 73 fig. 13]); Rembang Beds near Rembang (specimen RGM.40960 (2 fragments) [pl. 73 fig. 14 and pl. 73 fig. 15]), from the Lower Miocene: marl in West Progo Beds near Gunung Spolong collected by K. Martin & Icke (2

specimens RGM.3812 (pl. 55 fig. 13 in Gerth, 1921c) [pl. 74 fig. 1 and pl. 74 fig. 2], RGM.167540 (pl. 56 fig. 22 in Gerth, 1921c) [pl. 74 fig. 3 and pl. 74 fig. 4]).

Genus *Mycedium* Oken, 1815
*Mycedium tubifex* Dana, 1846

*Mycedium c.f. tubifex* Dana — Umbgrove, 1924: 14-15, pl. 2 fig. 6-7
*Mycedium tubifex* (Dana) — Umbgrove, 1946a: 531, pl. 79 fig. 1

Material from the Lower Pliocene: marl in Tapak beds near Gunung Linggapadang collected by Umbgrove in 1928 (specimen RGM.77639 (pl. 79 fig. 1 in Umbgrove, 1946a) [pl. 74 fig. 5 and pl. 74 fig. 6]).

Genus *Odontocyathus* Moseley, 1881
*Odontocyathus armatus* (Michelotti, 1838)

*Odontocyathus* cf. *armatus* (Michl.) — Gerth, 1923: 54, pl. 3 fig. 1-2

Material from the Upper Miocene Gunung Mlendong near Kari Orang collected by Schmidt (specimen RGM.43067 (pl. 3 fig. 1-2 in Gerth, 1923) [pl. 74 fig. 7 and pl. 74 fig. 8]).

*Odontocyathus radiatus* Gerth, 1923

*Odontocyathus radiatus* spec. nov — Gerth, 1923: 52-53, pl. 1 fig. 6-8
*Odontocyathus radiatus* Gerth — Gerth, 1925: 52; Gerth, 1931a: 130

Syntypes from the Upper Miocene of Tanah Belang collected by Schmidt, leg. 1902 (42 specimens RGM.43028 (pl. 1 fig. 6 in Gerth, 1923) [pl. 74 fig. 9 and pl. 74 fig. 10], RGM.167772 (pl. 1 fig. 7 in Gerth, 1923) [pl. 74 fig. 11, pl. 74 fig. 12 and pl. 74 fig. 13], RGM.167773 (pl. 1 fig. 8 in Gerth, 1923) [pl. 74 fig. 14 and pl. 74 fig. 15], RGM.525456-525457 [pl. 75 fig. 1, pl. 75 fig. 2 and pl. 75 fig. 3], RGM.525458 [pl. 75 fig. 4 and pl. 75 fig. 5], RGM.525459 [pl. 75 fig. 6 and pl. 75 fig. 7], RGM.525460 [pl. 75 fig. 8 and pl. 75 fig. 9], RGM.525461 [pl. 75 fig. 10 and pl. 75 fig. 11], RGM. 525462 [pl. 75 fig. 12], RGM.525463-525480, RGM. 525482 [pl. 75 fig. 13 and pl. 75 fig. 14], RGM.525483 [pl. 75 fig. 15 and pl. 76 fig. 1], RGM.525484-525493 [pl. 76 fig. 2 and pl. 76 fig. 3], RGM.525511 [pl. 76 fig. 4, pl. 76 fig. 5 and pl. 76 fig. 6], RGM.525512).

*Odontocyathus sundaicus* Gerth, 1923

*Odontocyathus sundaicus* spec. nov — Gerth, 1923: 53, pl. 1 fig. 9-10
*Odontocyathus sundaicus* Gerth — Gerth, 1925: 52; Gerth, 1931a: 130

Syntypes from the Upper Miocene Pulau Sinkuwang collected by L.M.R. Rutten (3 specimens RGM.43045 (pl. 1 fig. 9-10 in Gerth, 1923) [pl. 76 fig. 7, pl. 76 fig. 8 and pl. 76 fig. 9], RGM.525387 [pl. 76 fig. 10, pl. 76 fig. 11, pl. 76 fig. 12 and pl. 76 fig. 13], RGM.525388).

Genus *Orbicella* Dana, 1846
*Orbicella cyclommatos* Felix, 1921

*Orbicella cyclommatos* Felix — Gerth, 1923: 84-85, pl. 6 fig. 5

Material from the Upper Miocene in the east part of Sembulu-anticline collected by L.M.R. Rutten (specimen RGM.43095 (pl. 6 fig. 5 in Gerth, 1923) [pl. 76 fig. 14 and pl. 76 fig. 15]).

*Orbicella felixi* Gerth, 1923

*Orbicella Felixi* n. sp — Gerth, 1923: 83-84, pl. 4 fig. 4-6
*Orbicella* (*Heliastraea*) *Felixi* Gerth — Gerth, 1925: 60
*Orbicella (Heliastraea) felixi* Gerth — Gerth, 1931a: 137

Syntypes from the Pliocene: Coral Limestone of Hügel near Sekurau collected by Schmidt in 1901 (5 specimens RGM.6011 (pl. 4 fig. 6 in Gerth, 1923) [pl. 77 fig. 1 and pl. 77 fig. 2], RGM.40952 [pl. 77 fig. 3 and pl. 77 fig. 4], RGM.43070 (pl. 4 fig. 4 in Gerth, 1923) [pl. 77 fig. 5, pl. 77 fig. 6 and pl. 77 fig. 7], RGM.167789 (pl. 4 fig. 5 in Gerth, 1923) [pl. 77 fig. 8 and pl. 77 fig. 9], RGM.167790 [pl. 77 fig. 10 and pl. 77 fig. 11]).

*Orbicella irregularis* (Martin, 1880a)

*Heliastraea irregularis* nov. spec — Martin, 1880a: 141, pl. 25 fig. 1, pl. 26 fig. 5
*Orbicella irregularis* (Mart.) — Gerth, 1923: 82-83
*Orbicella* (*Heliastraea*) *irregularis* Mart — Gerth, 1925: 60
*Orbicella (Heliastraea) irregularis* Mart — Gerth, 1931a: 137,148

Holotype from the Upper Miocene-Pliocene locality "Junghuhn O" collected by Junghuhn (specimen RGM.3855 (pl. 25 fig. 1, pl. 26 fig. 5 in Martin, 1880a) [pl. 77 fig. 12 and pl. 77 fig. 13]).

*Orbicella linggapadangensis* Umbgrove, 1950

*Orbicella Linggapadangensis* Umbgrove, n. sp — Umbgrove, 1946a: 524, pl. 77 fig. 4

Holotype from the Lower Pliocene near Gunung Linggapadang collected by Umbgrove in 1928 (specimen RGM.77574 (pl. 77 fig.4 in Umbgrove, 1946a) [pl. 77 fig. 14 and pl. 77 fig. 15]).

*Orbicella tabulata* (Martin, 1880a)

*Heliastraea tabulata* nov. spec — Martin, 1880a: 140-141, pl. 24 fig. 21, pl. 26 fig. 4
*Orbicella tabulata* Mart — Gerth, 1921c: 415; Gerth, 1923: 84
*Orbicella* (*Heliastraea*) *tabulata* Mart — Gerth, 1925: 60
*Orbicella (Heliastraea) tabulata* Mart — Gerth, 1931a: 137, 147, 148
*Orbicella tabulata* Mart — Gerth, 1933: 11

Holotype from the Miocene locality "Junghuhn N" collected by Junghuhn (specimen RGM.3856 (2 fragments) (pl. 24 fig. 21, pl. 26 fig. 4 in Martin, 1880a) [pl. 78 fig. 1 and pl. 78 fig. 2]).

Genus *Oulastrea* Milne Edwards & Haime, 1848b
*Oulastrea praecrispata* Umbgrove, 1950

*Oulastrea praecrispata* Umbgrove, n. sp — Umbgrove, 1950: 645, pl. 84 fig. 9-10

Holotype from the Lower Pleistocene: Mollusc Unit II north of village Klagenblandong collected by Cosijn (specimen RGM.77985 (pl. 84 fig. 9-10 in Umbgrove, 1950) [pl. 78 fig. 3]).

Genus *Oxyphyllia* Yabe & Eguchi, 1935
*Oxyphyllia javana* Umbgrove, 1946a

*Oxyphyllia javana* Umbgrove, n. sp — Umbgrove, 1946a: 532, pl. 80 fig. 2

Holotype from the Lower Pliocene: marl in Tapak beds near Gunung Linggapadang collected by Umbgrove in 1928 (specimen RGM.77640 (pl. 80 fig. 2 in Umbgrove, 1946a) [pl. 78 fig. 4]).

Genus *Pachyseris* Milne Edwards & Haime, 1849
*Pachyseris compacta* Umbgrove, 1950

*Pachyseris compacta* Umbgrove, n. sp — Umbgrove, 1950: 647, pl. 83 fig. 8, pl. 84 fig. 3

Syntypes from the Pleistocene: Mollusc Unit III south of village Munungkerep collected by Cosijn (specimen RGM.77999 (pl. 83 fig. 8 in Umbgrove, 1950) [pl. 78 fig. 5 and pl. 78 fig. 6]), from the Lower Pleistocene: Mollusc Unit II north of village Klagenblandong collected by Cosijn (specimen RGM.78000 (pl. 84 fig. 3 in Umbgrove, 1950) [pl. 78 fig. 7]).

*Pachyseris cristata* Martin, 1880a

*Pachyseris cristata* nov. spec — Martin, 1880a: 145, pl. 25 fig. 9, pl. 26 fig. 8
*Pachyseris cristata* Mart — Gerth, 1923: 113; Gerth, 1925: 64; Gerth, 1931a: 140, 149

Holotype from the Upper Miocene locality "Junghuhn P" collected by Junghuhn (specimen RGM.3903 (2 fragments) (pl. 25 fig. 9 in Martin, 1880a) [pl. 78 fig. 8 and pl. 78 fig. 9]).

*Pachyseris curvata* Martin, 1880a

*Pachyseris curvata* nov. spec — Martin, 1880a: 145, pl. 25 fig. 8, pl. 26 fig. 7
*Pachyseris curvata* Mart — Gerth, 1925: 64; Gerth, 1931a: 140, 149
*Pachyseris curvata* Martin — Umbgrove, 1946a: 536, pl. 80 fig. 1

Holotype from the Upper Miocene locality "Junghuhn P" collected by Junghuhn (specimen RGM.3901 (3 fragments) (pl. 25 fig. 8, pl. 26 fig. 7 in Martin, 1880a) [pl. 78 fig. 10 and pl. 78 fig. 11]).

Additional material from the Miocene in the Ngembak borehole B collected by Van Dijk (sample RGM.3908, specimen RGM.3907 (pl. 57 fig. 23 in Gerth, 1921c) [pl. 78 fig. 12 and pl. 78 fig. 13]), from the Upper Miocene locality "Junghuhn P" collected by Junghuhn (2 specimens RGM.3903 (2 fragments) (pl. 25 fig. 9 in Martin, 1880a) [pl. 78 fig. 8 and pl. 78 fig. 9], RGM.3905 (pl. 25 fig. 10 in Martin, 1880a) [pl. 78 fig. 14]), from the Lower Pliocene near Gunung Linggapadang collected by Umbgrove in 1928 (specimen RGM.77665 (pl. 80 fig. 1 in Umbgrove, 1946a) [pl. 78 fig. 15, pl. 79 fig. 1 and pl. 79 fig. 2]).

*Pachyseris vandijki* Gerth, 1921c (junior synonym of *Pachyseris curvata*)

*Pachyseris vandijki* spec. nov — Gerth, 1921c: 426, pl. 57 fig. 23
*Pachyseris vandijki* Gerth — Gerth, 1933: 12

Syntypes from the Miocene in the Ngembak borehole B collected by Van Dijk (sample RGM.3908, 3 specimens RGM.3907 (pl. 57 fig. 23 in Gerth, 1921c) [pl. 78 fig. 12 and pl. 78 fig. 13], RGM.525266 [pl. 79 fig. 3 and pl. 79 fig. 4], RGM.525267 [pl. 79 fig. 5]).

*Pachyseris denticulata* Gerth, 1923

*Pachyseris denticulata*, spec. nov — Gerth, 1923: 113-114, pl. 8 fig. 5
*Pachyseris denticulata* Gerth — Gerth, 1925: 64; Gerth, 1931a: 140

Syntype from the Miocene along the Sungai Pelarang collected by Mühlberg (specimen RGM. 43123 (2 fragments) (pl. 8 fig. 5 in Gerth, 1923) [pl. 79 fig. 6 and pl. 79 fig. 7]).

*Pachyseris distans* Gerth, 1923

*Pachyseris distans* nov. sp — Gerth, 1923: 114, pl. 3 fig. 9
*Pachyseris distans* Gerth — Gerth, 1925: 64; Gerth, 1931a: 140

Holotype from the Miocene near Kabasian collected by Witkamp (specimen RGM.43025 (pl. 3 fig. 9 in Gerth, 1923) [pl. 79 fig. 8 and pl. 79 fig. 9]).

Remarks: Specimen RGM.43025 is labelled with the field number R37. This code refers to Rutten's locality Sekurau Anticline along the Sungai Entoko.

*Pachyseris laticollis* Martin, 1880a

*Pachyseris laticollis* nov. spec — Martin, 1880a: 146, pl. 25 fig. 10
*Pachyseris laticollis* Mart — Gerth, 1925: 64
*Pachyseris laticollis* Mart/ — Gerth, 1931a: 140, 149

Holotype from the Upper Miocene locality "Junghuhn P" collected by Junghuhn (specimen RGM.3905 (2 fragments) (pl. 25 fig. 10 in Martin, 1880a) [pl. 78 fig. 14]).

*Pachyseris murchisoni* Milne Edwards, 1860

*Pachyseris Murchisoni* I. Haime — Gerth, 1923: 112-113, pl. 8 fig. 4
Pironastraea murchisoni — Gerth, 1930: 343

Material from the Miocene near Kabasian collected by Witkamp (specimen RGM.43127 (pl. 8 fig. 4 in Gerth, 1923) [pl. 79 fig. 10 and pl. 79 fig. 11]).

*Pachyseris speciosa* (Dana, 1846)

*Pachyseris speciosa* (Dana) — Gerth, 1923: 113, pl. 8 fig. 6

Material from the Miocene along the Sungai Pelarang collected by Mühlberg (specimen RGM. 43121 (2 fragments) (pl. 8 fig. 6 in Gerth, 1923) [pl. 79 fig. 12 and pl. 79 fig. 13]).

Genus *Paracyathus* Milne Edwards & Haime, 1848a
*Paracyathus javana* Umbgrove, 1950

*Paracyathus javana* Umbgrove, n. sp — Umbgrove, 1950: 643-644, pl. 81 fig. 41-45

Syntypes from the Miocene of Beberkiri river collected by Van Dijk (specimen RGM.3776 [pl. 79 fig. 14, pl. 79 fig. 15 and pl. 80 fig. 1]), from the Lower Pleistocene: Mollusc Unit I east of Mount Watulawang collected by Cosijn (specimen RGM. 77941 (pl. 81 fig. 45 in Umbgrove, 1950) [pl. 80 fig. 2 and pl. 80 fig. 3]), south of village Tjendoro collected by Cosijn (2 specimens RGM.77940 (pl. 81 fig. 41-42 in Umbgrove, 1950) [pl. 80 fig. 4, pl. 80 fig. 5 and pl. 80 fig. 6], RGM.167692 (pl. 81 fig. 43-44 in Umbgrove, 1950) [pl. 80 fig. 7]).

*Paracyathus procumbens* Milne Edwards & Haime, 1848a

*Paracyathus* cf. *procumbens* E. u. H — Gerth, 1921c: 395

Material from the Miocene of Beberkiri river collected by Van Dijk (specimen RGM.3776 [pl. 79 fig. 14, pl. 79 fig. 15 and pl. 80 fig. 1]).

*Paracyathus stokesii* Milne Edwards & Haime, 1848a

*Paracyathus stokesii* Edwards & Haime — Umbgrove, 1950: 643, pl. 81 fig. 33-40

Material from the Pleistocene: Mollusc Unit II of River Badjang collected by Moedjono (specimen RGM.77937 (pl. 81 fig. 33-34 in Umbgrove, 1950) [pl. 80 fig. 8 and pl. 80 fig. 9]), from the Lower Pleistocene: 'Argillaceous' of River Tretes near village Garung collected by Cosijn (3 specimens RGM.77938 (pl. 81 fig. 35-36 in Umbgrove, 1950) [pl. 80 fig. 10, pl. 80 fig. 11 and pl. 80 fig. 12], RGM.167690 (pl. 81 fig. 37-38 in Umbgrove, 1950) [pl. 80 fig. 13 and pl. 80 fig. 14], RGM.167691 (pl. 81 fig. 39-40 in Umbgrove, 1950) [pl. 80 fig. 15 and pl. 81 fig. 1]).

*Paracyathus* sp.

*Paracyathus* sp — Umbgrove, 1950: 644, pl. 81 fig. 46-47

Material from the Pleistocene: Volcanic Member of River Sudo, branch of River Beng collected by Cosijn (specimen RGM.77942 (pl. 81 fig. 46-47 in Umbgrove, 1950) [pl. 81 fig. 2 and pl. 81 fig. 3]).

Genus *Pattalophyllia* D' Achiardi, 1868
*Pattalophyllia patella* (Gerth, 1921c)

*Anthemiphyllia patella* spec. nov — Gerth, 1921c: 404-405, pl. 57 fig. 25-26
*Anthemiphyllia patella* Gerth — Gerth, 1925: 55; Gerth, 1931a: 132
*Pattalophyllia patella* (Gerth) — Gerth, 1933: 11

Syntypes from the Miocene: Rembang Beds near Sedan collected by R.D.M. Verbeek (2 specimens RGM.3822 (pl. 57 fig. 25-26 in Gerth, 1921c) [pl. 81 fig. 4, pl. 81 fig. 5 and pl. 81 fig. 6], RGM.167543 [pl. 81 fig. 7 and pl. 81 fig. 8]).

*Pattalophyllia verbeeki* (Gerth, 1921c)

*Anthemiphyllia Verbeeki* spec. nov — Gerth, 1921c: 404, pl. 55 fig. 11, 12, pl. 56 fig. 20
*Anthemiphyllia Verbeeki* Gerth — Gerth, 1925: 55
*Anthemiphyllia verbeeki* Gerth — Gerth, 1931a: 132
*Pattalophyllia verbeeki* (Gerth) — Gerth, 1933: 23-24, 11

Syntypes from the Lower Miocene: Rembang Beds of Gunung Butak collected by R.D.M. Verbeek ("Bezending 1893") (2 specimens RGM.3823 (pl. 55 fig. 12 and pl. 56 fig. 20 in Gerth, 1921c) [pl. 81 fig. 9 and pl. 81 fig. 10], RGM.3825 [pl. 81 fig. 11, pl. 81 fig. 12 and pl. 81 fig. 13]), near Sedan collected by R.D.M. Verbeek (specimen RGM.3824 (2 fragments) (pl. 55 fig. 11 in Gerth, 1921c) [pl. 81 fig. 14 and pl. 81 fig. 15]).

Genus *Pavona* De Lamarck, 1801
*Pavona clava* (Dana, 1846)

*Siderastraea clava* Dana — Umbgrove, 1924: 12, pl. 2 fig. 8
*Pavona* Lamarck — Umbgrove, 1946a: 538
*Pavona clavus* (Dana) — Umbgrove, 1946a: 538

Material from the Upper Miocene locality "Junghuhn P" collected by Junghuhn (specimen RGM.3910 (pl. 25 fig. 7 in Martin, 1880a) [pl. 82 fig. 1 and pl. 82 fig. 2]).

*Pavona folium* Martin, 1880a

*Pavonia folium* nov. spec — Martin, 1880a: 144-145, pl. 25 fig. 7
*Pavona folium* Mart — Gerth, 1925: 65; Gerth, 1931a: 141, 149

Holotype from the Upper Miocene locality "Junghuhn P" collected by Junghuhn (specimen RGM.3910 (pl. 25 fig. 7 in Martin, 1880a) [pl. 82 fig. 1 and pl. 82 fig. 2]).

*Pavona microstoma* Umbgrove in Gerth, 1925

*Pavona microstoma* Umbgrove — Gerth, 1925: 35, 23, 65
*Pavona microstoma* spec. nov — Umbgrove, 1926: 43
*Pavonia microstoma* Umbgr — Gerth, 1931a: 141
*Pavona microstoma* Umbgrove — Umbgrove, 1946b: 92, 88, pl. 2 fig. 11-12

Paralectotype from the Neogene-Quaternary along the road from Idane Gawo to Sogae Adju collected by Schröder (specimen RGM.125818 [pl. 82 fig. 3 and pl. 82 fig. 4]).

Additional material from the Upper Pliocene: sandy marl in Upper Kalibeng beds along the Soloriver northwest of Padasmalang (specimen RGM. 525346 (pl. 2 fig. 11-12 in Umbgrove, 1946b) [pl. 82 fig. 5 and pl. 82 fig. 6]).

Remarks: Umbgrove (1946a) selected the Atjeh specimen as lectotype and thus made the Nias specimens paralectotypes.

Genus *Pavonaraea* Umbgrove, 1946a
*Pavonaraea irregularis* Umbgrove, 1946a

*Pavonaraea irregularis* Umbgrove, n. sp — Umbgrove, 1946a: 538-539, pl. 82 fig. 3

Holotype from the Lower Pliocene: marl in Tapak beds near Gunung Linggapadang collected by Umbgrove in 1928 (specimen RGM.77681 (pl. 82 fig. 3 in Umbgrove, 1946a) [pl. 82 fig. 7 and pl. 82 fig. 8]).

*Pavonaraea javana* (Gerth, 1921c)

*Comoseris javana* spec. nov — Gerth, 1921c: 426-427, pl. 57 fig. 24
*Pachyseris* (*Comoseris*) *javana* (Gerth) — Gerth, 1925: 64
*Pironastraea javana* — Gerth, 1930: 343
*Pachyseris (Comoseris) javana* (Gerth) — Gerth, 1931a: 140
*Pachyseris Comoseris javana* (Gerth) — Gerth, 1933: 12
*P. javana* — Umbgrove, 1946a: 538

Holotype from the Miocene in the Ngembak borehole B collected by Van Dijk (specimen RGM. 3902 (pl. 57 fig. 24 in Gerth, 1921c) [pl. 82 fig. 9, pl. 82 fig. 10 and pl. 82 fig. 11]).

Genus *Petrophylliella* Felix, 1925
*Petrophylliella javana* (Gerth, 1921c)

*Montlivaultia Javana* spec. nov — Gerth, 1921c: 405, pl. 56 fig. 8, 9, 23
*Montlivaultia javana* Gerth — Gerth, 1925: 54; Gerth, 1931a: 132, 147
*Petrophylliella (Montlivaultia) javana* (Gerth) — Gerth, 1933: 20-22, 9, pl. 3 fig. 1-1b

Syntypes from the Miocene: West Progo Beds near Gunung Spolong collected by K. Martin & Icke June, 20th (6 specimens RGM.525247 [pl. 82 fig. 12 and pl. 82 fig. 13], RGM.525248 [pl. 82 fig. 14 and pl. 82 fig. 15], RGM.525249 [pl. 83 fig. 1 and pl. 83 fig. 2], RGM.525250 [pl. 83 fig. 3 and pl. 83 fig. 4], RGM. 525251 [pl. 83 fig. 5 and pl. 83 fig. 6], RGM.525252 [pl. 83 fig. 7 and pl. 83 fig. 8]), near Kampong Djunggrangan collected by K. Martin & Icke June, 19th (5 specimens RGM.525253 [pl. 83 fig. 9], RGM.525254-525255 [pl. 83 fig. 10 and pl. 83 fig. 11], RGM.525256 [pl. 83 fig. 12], RGM.525257 [pl. 83 fig. 13 and pl. 83 fig. 14]), near Kembang Sokkoh collected by K. Martin & Icke June, 20th (specimen RGM.3809 (2 fragments) [pl. 83 fig. 15 and pl. 84 fig. 1]), from the Lower Miocene: West Progo Beds near Kampong Djunggrangan collected by K. Martin & Icke (specimen RGM.3808 (pl. 56 fig. 9 in Gerth, 1921c) [pl. 84 fig. 2, pl. 84 fig. 3 and pl. 84 fig. 4]); marl in West Progo Beds near Gunung Spolong collected by K. Martin & Icke (2 specimens RGM.3807 (pl. 56 fig. 8 in Gerth, 1921c) [pl. 84 fig. 5 and pl. 84 fig. 6], RGM. 167539 (pl. 56 fig. 23 in Gerth, 1921c) [pl. 84 fig. 7 and pl. 84 fig. 8]).

Genus *Phloeocyathys* Alcock, 1902
*Phloeocyathus brunneus* Moseley, 1881

*Phloeocythus brunneus* Moseley — Gerth, 1923: 58-59, pl. 1 fig. 22-23

Material from the Upper Miocene of Tanah Belang collected by Schmidt, leg. 1902 (2 specimens RGM.43040 (pl. 1 fig. 22 in Gerth, 1923) [pl. 84 fig. 9 and pl. 84 fig. 10], RGM.167780 (pl. 1 fig. 23 in Gerth, 1923) [pl. 84 fig. 11 and pl. 84 fig. 12]).

Genus *Phyllangia* Milne Edwards & Haime, 1848b
*Phyllangia divaricata* Gerth, 1923

*Phyllangia divaricata* spec. nov — Gerth, 1923: 92, pl. 6 fig. 7
*Phyllangia divaricata* Gerth — Gerth, 1925: 61; Gerth, 1931a: 138

Holotype from the Miocene near Kabasian collected by Witkamp (specimen RGM.43096 (pl. 6 fig. 7 in Gerth, 1923) [pl. 84 fig. 13 and pl. 84 fig. 14]).

*Phyllangia imbricata* Gerth, 1923

*Phyllangia imbricata* spec. nov — Gerth, 1923: 91-92, pl. 6 fig. 6
*Phyllangia imbricata* Gerth — Gerth, 1925: 61; Gerth, 1931a: 138

Syntype from the Miocene near Kabasian collected by Witkamp (specimen RGM.43099 (pl. 6 fig. 6 in Gerth, 1923) [pl. 84 fig. 15 and pl. 85 fig. 1]).

Genus *Pironastraea* D' Achiardi, 1875
*Pironastraea sangkoelirangensis* (Gerth, 1923)

*Comoseris*? *sangkoelirangensis* spec. nov — Gerth, 1923: 110, pl. 9 fig. 2
*Pironastraea* (*Comoseris*?) *sangkoelirangensis* (Gerth) — Gerth, 1925: 64
*Pironastraea (Comoseris?) sangkoelirangensis* (Gerth) — Gerth, 1931a: 140

Holotype from the Upper Miocene: Upper Balikpapan layers along the Sungai Gelingseh collected by L.M.R. Rutten (specimen RGM.43111 (pl. 9 fig. 2 in Gerth, 1923) [pl. 85 fig. 2, pl. 85 fig. 3 and pl. 85 fig. 4]).

Genus *Placocoenia* D' Orbigny, 1849
*Placocoenia neuquensis* Gerth, 1928

*Placocoenia neuquensis* spec. nov — Gerth, 1928: 6, pl. 1 fig. 5

Syntypes from the Aptian: Agrio Formation on the south bank of Rio Agrio, 4 km east of mouth of Rio Salado collected by Weaver (2 specimens RGM. 143053 (1 thin section, 1 fragment) (pl. 1 fig. 5 in Gerth, 1928) [pl. 85 fig. 5], RGM.143054 [pl. 85 fig. 6]).

Genus *Placosmilia* Milne Edwards & Haime, 1848d
*Placosmilia panovani* Gerth, 1921c

*Placosmilia panovani* spec. nov — Gerth, 1921c: 403, pl. 56 fig. 19
*Placosmilia panowani* Gerth — Gerth, 1925: 53; Gerth, 1931a: 131
*Placosmilia panovani* Gerth — Gerth, 1933: 11

Holotype from the Lower Miocene: Rembang Beds of Panowan River collected by Gonggrijp (specimen RGM.3803 (pl. 56 fig. 19 in Gerth, 1921c) [pl. 85 fig. 7 and pl. 85 fig. 8]).

*Placosmilia* sp.

*Placosmilia* spec — Gerth, 1923: 60, pl. 2 fig. 10-11

Material from the Upper Miocene: Upper Balikpapan layers in the Gunung Batu-Anticline collected by L.M.R. Rutten (specimen RGM.43043 (pl. 2 fig. 10 in Gerth, 1923) [pl. 85 fig. 9 and pl. 85 fig. 10]), along the Sungai Gelingseh collected by L.M.R. Rutten (specimen RGM.43042 (pl. 2 fig. 11 in Gerth, 1923) [pl. 85 fig. 11 and pl. 85 fig. 12]).

Genus *Platygyra* Ehrenberg, 1834
*Platygyra lamellina* (Ehrenberg, 1834)
*Oulophyllia angusta* Gerth, 1925 (junior synonym of *Platygyra lamellina*)

*Ulophyllia angusta* spec. nov — Gerth, 1925: 28, 24, 55, pl. 5 fig. 7
*Ulophyllia angusta* Gerth — Gerth, 1931a: 133

Holotype from the Neogene-Quaternary of Idane Gawo collected by Schröder (specimen RGM. 17978 (pl. 5 fig. 7 in Gerth, 1925) [pl. 85 fig. 13 and pl. 85 fig. 14]).

*Platygyra phrygia* (Ellis & Solander, 1786)

*Platygyra phrygia* (Ellis and Solander) — Umbgrove, 1946a: 528, pl. 78 fig. 9

Material from the Lower Pliocene near Gunung Linggapadang collected by Umbgrove, bought by RGM in June, 1955 (specimen RGM.77584 (pl. 78 fig. 9 in Umbgrove, 1946a) [pl. 85 fig. 15]).

Genus *Porites* Link, 1807
*Porites strata* Martin, 1880a

*Porites strata* nov. spec — Martin, 1880a: 147-148, pl. 25 fig. 13
*Porites strata* Mart — Gerth, 1931a: 149
*Porites* cf. *strata* Mart — Gerth, 1933: 9

Holotype from the Upper Miocene locality "Junghuhn P" collected by Junghuhn (specimen RGM.3959 (pl. 25 fig. 13 in Martin, 1880a) [pl. 86 fig. 1]).

*Porites timorensis*
*Porites timorensis* forma *fossilisprima* Felix, 1915

*Porites timorensis fossilis prima* n. f — Felix, 1915: 41-42, pl. 38 fig. 8

Holotype from the Pliocene-Pleistocene of a steep northern valleyside of the Noil Fatu along path between Nèke and Niki Niki collected by Molengraaff (2 fragments THDKA.13660 (pl. 38 fig. 8 in Felix, 1915) [pl. 86 fig. 2 and pl. 86 fig. 3], THDKA. 13661 (pl. 38 fig. 8-8a in Felix, 1915) [pl. 86 fig. 4 and pl. 86 fig. 5], sample Ser. II, N.894 (pl. 38 fig. 8 in Felix, 1915)).

Remarks: Fragments THDKA.13660-'61 are according to their labels illustrated in Felix (1915), but the figures and the fragments do not resemble each other.

*Porites* sp.

*Porites* spec — Umbgrove, 1939: 65, fig. 9

Material from the Miocene the north coast near Papang collected by Kuenen during the Snellius

expedition (specimen RGM.35477b (fig. 9 in Umbgrove, 1939) [pl. 86 fig. 6 and pl. 86 fig. 7]).

Genus *Progyrosmilia* Wells, 1937
*Progyrosmilia regularis* Umbgrove, 1950

*Progyrosmilia regularis* Umbgrove, n. sp — Umbgrove, 1950: 645, pl. 84 fig. 1-2

Syntypes from the Lower Pleistocene: Mollusc Unit II north of village Klagenblandong collected by Cosijn (2 specimens RGM.77969 (pl. 84 fig. 1-2 in Umbgrove, 1950) [pl. 86 fig. 8 and pl. 86 fig. 9], RGM.167694 [pl. 86 fig. 10 and pl. 86 fig. 11]).

*Progyrosmilia vacua* (Gerth, 1923)

*Coelocoenia vacua*, gen. nov. spec. nov — Gerth, 1923: 63, pl. 3 fig. 6
*Coelocoenia vacua* Gerth — Gerth, 1925: 54; Gerth, 1931a: 131
*Progyrosmilia* (?) *vacua* Gerth — Umbgrove, 1939: 63, fig. 10-11

Syntype from the Upper Miocene: Upper Balikpapan layers along the Sungai Gelingseh collected by L.M.R. Rutten (specimen RGM.17704 (3 fragments) (pl. 3 fig. 6 in Gerth, 1923) [pl. 86 fig. 12, pl. 86 fig. 13 and pl. 86 fig. 14]).

Additional material from the Miocene the north coast near Papang collected by Kuenen during the Snellius expedition (specimen RGM.35480 (fig. 10-11 in Umbgrove, 1939) [pl. 86 fig. 15 and pl. 87 fig. 1]).

Remarks: Gerth (1923) studied one specimen from Sungai Gelingseh and one from Kabasian. The latter has not been found at NNM.

Genus *Scalariogyra* Gerth, 1923
*Scalariogyra escharoides* Gerth, 1923

*Scalariogyra escharoides* spec. nov — Gerth, 1923: 61-62, pl. 3 fig. 3
*Scalariogyra escharoides* Gerth — Gerth, 1925: 54; Gerth, 1931a: 131

Syntypes from the Miocene near Sungai Selankau collected by Witkamp (specimen RGM. 43058 (pl. 3 fig. 3 in Gerth, 1923) [pl. 87 fig. 2 and pl. 87 fig. 3]), between Gunung Runtu and Gunung Mantugai collected by L.M.R. Rutten (specimen RGM.43061 (1 thin section, 1 fragment) [pl. 87 fig. 4 and pl. 87 fig. 5]).

Remarks: Gerth (1923) studied specimens from near Sungai Selankau, Kari Orang and between Gunung Runtu and Gunung Mantugai.

Genus *Seriatopora* De Lamarck, 1816
*Seriatopora ornata* Felix, 1921
*Seriatopora irregularis* Gerth, 1921c (junior synonym of *Seriatopora ornata*)

*Seriatopora irregularis* spec. nov — Gerth, 1921c: 421, pl. 56 fig. 13-15

Syntypes from the Neogene: Nyalingdung Formation near Ciangsana (specimen RGM.92099), from the Miocene: Nyalingdung Formation near Ciangsana collected by K. Martin & Icke (sample RGM. 3929 (3 fragments) [pl. 87 fig. 6 and pl. 87 fig. 7], 3 specimens RGM.3928 (pl. 56 fig. 13 in Gerth, 1921c) [pl. 87 fig. 8], RGM.167560 (pl. 56 fig. 14 in Gerth, 1921c) [pl. 87 fig. 9 and pl. 87 fig. 10], RGM.167561 [pl. 87 fig. 11]), of Cibeber collected by K. Martin & Icke (sample RGM.40968 (8 fragments) [pl. 87 fig. 12, pl. 87 fig. 13 and pl. 87 fig. 14], specimen RGM.3927 (pl. 56 fig. 15 in Gerth, 1921c) [pl. 87 fig. 15 and pl. 88 fig. 1]), near Citalahab collected by K. Martin & Icke (sample RGM.3931 (6 fragments) [pl. 88 fig. 2]), of Gunung Buleud collected by K. Martin & Icke (sample RGM.3930 (5 fragments) [pl. 88 fig. 3 and pl. 88 fig. 4]).

Genus *Solenastraea* Milne Edwards & Haime, 1848b
*Solenastraea semarangensis* Gerth, 1921c

*Solenastraea semarangensis* spec. nov — Gerth, 1921c: 416, pl. 56 fig. 10
*Solenastraea semorangensis* Gerth — Gerth, 1923: 89
*Solenastraea semarangensis* Gerth — Gerth, 1925: 61; Gerth, 1931a: 137; Gerth, 1933: 12; Gerth, 1933: 8, 12

Syntypes from the Miocene in the Ngembak borehole B collected by Van Dijk (3 specimens RGM. 3863 (pl. 56 fig. 10 in Gerth, 1921c) [pl. 88 fig. 5 and pl. 88 fig. 6], RGM.525365 [pl. 88 fig. 7], RGM.525366 [pl. 88 fig. 8 and pl. 88 fig. 9]).

Genus *Sphenotrochus* Milne Edwards & Haime, 1848a
*Sphenotrochus viola* (Duncan, 1870)

*Sphenotrochus viola* (Dunc.) — Gerth, 1921c: 393, pl. 57 fig. 10-11

Material from the Miocene in the Ngembak borehole B collected by Van Dijk (specimen RGM. 3771 (pl. 57 fig. 10-11 in Gerth, 1921c) [pl. 88 fig. 10 and pl. 88 fig. 11]).

Remarks: In the NNM library copy of Gerth (1921c) the genusname *Sphenotrochus* was crossed out with pencil and corrected into *Notocyathus*.

Genus *Stephanocyathus* Seguensa, 1873
*Stephanocyathus magnificus* Gerth, 1923

*Stephanocyathus magnificus* spec. nov — Gerth, 1923: 51-52, pl. 1 fig. 14
*Stephanocyathus magnificus* Gerth — Gerth, 1925: 52; Gerth, 1931a: 130

Holotype from the Upper Miocene of Tandjong Batu collected by Schmidt, leg. 1902 (specimen RGM.43026 (pl. 1 fig. 14 in Gerth, 1923) [pl. 88 fig. 12 and pl. 88 fig. 13]).

Genus *Stephanoseris* Milne Edwards & Haime, 1851d
*Stephanoseris carthausi* Felix, 1913

*Stephanoseris Carthausi* Flx — Felix, 1915: 36-38, pl. 37 fig. 3-4
*Stephanoseris Carthausi* (Flx.) — Umbgrove, 1926: 44, 32, pl. 1 fig. 4, pl. 2 fig. 13

Material from the Pliocene: Lignitiferous Formation near Kr. Lambajong collected by the Dienst Mijnwezen (specimen RGM.167942 (pl. 2 fig. 13 in Umbgrove, 1926)), from the Pliocene-Pleistocene near Kampong Fatukan close to Lahurus (2 specimens RGM.525662 (pl. 37 fig. 4-4a in Felix, 1915) [pl. 88 fig. 14], THDKA.13647 (pl. 37 fig. 3-3b in Felix, 1915) [pl. 88 fig. 15]).

Remarks: Specimen RGM.167942 grew on a *Cerithium (Cerithium)*.

Genus *Stylohelia* De Fromentel, 1861
*Stylohelia mamillata* De Fromentel, 1861

*Stylohelia mamillata* From — Gerth, 1908: 49, fig. 16

Material from the Malm of Haute Saone (specimen IPB Gerth.40 (fig. 16 in Gerth, 1908) [pl. 89 fig. 1]).

Genus *Stylophora* Schweigger, 1819
*Stylophora coalescens* Gerth, 1923

*Stylophora coalescens* spec. nov — Gerth, 1923: 98, pl. 7 fig. 5-6
*Stylophora coalescens* Gerth — Gerth, 1925: 66; Gerth, 1931a: 142

Syntype from the Lower Miocene in the Sekurau Anticline along the Sungai Entoko collected by L.M.R. Rutten (specimen RGM.43015 (pl. 7 fig. 5-6 in Gerth, 1923) [pl. 89 fig. 2 and pl. 89 fig. 3]).

*Stylophora digitata* (Pallas, 1766)

*Stylophora digitata* Pallas — Martin, 1880a: 135-136, pl. 24 fig. 9-10; Martin, 1883: 40, pl. 1 fig. 7

Material from the Tertiary-Quaternary of Kali Mati near Kupang collected by C.F.A. Schneider (specimen RGM.11980 (pl. 1 fig. 7 in Martin, 1883) [pl. 89 fig. 4]), from the Upper Miocene locality "Junghuhn P" collected by Junghuhn (specimen RGM.3913 (135-136, pl. 24 fig. 9-10 in Martin, 1880a) [pl. 89 fig. 5 and pl. 89 fig. 6]).

*Stylophora gemmans* Gerth, 1923

*Stylophora gemmans* spec. nov — Gerth, 1923: 98, pl. 7 fig. 9
*Stylophora gemmans* Gerth — Gerth, 1925: 66; Gerth, 1931a: 142

Syntype from the Lower Miocene in the Sekurau Anticline along the Sungai Entoko collected by L.M.R. Rutten (specimen RGM.43016 (pl. 7 fig. 9 in Gerth, 1923) [pl. 89 fig. 7 and pl. 89 fig. 8]).

Remarks: Gerth (1923) studied specimens from Sekurau Anticline along the Sungai Entoko, Sungai Ponjangulan and from Sungai Pamaluan.

*Stylophora granulata* Umbgrove, 1950

*Stylophora granulata* Umbgrove, n. sp — Umbgrove, 1950: 644, pl. 81 fig. 48

Syntypes from the Lower Pleistocene: Mollusc Unit I south of village Tjendoro collected by Cosijn (4 specimens RGM.77954 (pl. 81 fig. 48 in Umbgrove, 1950) [pl. 89 fig. 9 and pl. 89 fig. 10], RGM.525527 [pl. 89 fig. 11], RGM.525528 [pl. 89 fig. 12], RGM. 525529).

*Stylophora pocilloporoides* Umbgrove, 1950

*Stylophora pocilloporoides* Umbgrove, n. sp — Umbgrove, 1950: 644, pl. 84 fig. 7-8

Syntypes from the Lower Pleistocene: Volcanic Member along a lorry-track west of village Ngronan collected by Djaman in 1931 and 1934 (4 specimens RGM.77952 (pl. 84 fig. 7-8 in Umbgrove, 1950) [pl. 89 fig. 13 and pl. 89 fig. 14], RGM.525343 [pl. 89 fig. 15], RGM.525344 [pl. 90 fig. 1], RGM.525345 [pl. 90 fig. 2]); Mollusc Unit II of North of village Kalemblandong collected by the Dienst Mijnwezen (specimen RGM.77951 [pl. 90 fig. 3 and pl. 90 fig. 4]), between Sumberdjo and Sumberploso collected by Cosijn (2 specimens RGM.525525 [pl. 90 fig. 5 and pl. 90 fig. 6], RGM.525526 [pl. 90 fig. 7]).

*Stylophora sokkohensis* Gerth, 1921c

*Stylophora sokkohensis* spec. nov — Gerth, 1921c: 420
*Stylophora sokkohensis* Gerth — Gerth, 1923: 98-99; Gerth, 1925: 66; Gerth, 1931a: 142, 148; Gerth, 1933: 38, 9, pl. 4 fig. 5-5a
*Stylophora* sp. cf. *S. sokkohensis* Gerth, 1921 — Wells, 1964: 1104, pl. 297 fig. 1

Syntypes from the Miocene: coralbreccia in West Progo Beds near Kembang Sokkoh collected by K. Martin & Icke June, 25th (sample RGM.3920 (9 fragments) [pl. 90 fig. 8, pl. 90 fig. 9 and pl. 90 fig. 10]); erratics in West Progo Beds near Kembang Sokkoh collected by K. Martin & Icke June, 24th (specimen RGM.3921 [pl. 90 fig. 11]).

Remarks: Gerth (1933) illustrated two fragments from the Progo beds from Kembang Sokkoh. The foram on specimen RGM.3920 is *Pseudotaberina vandervlerki* (pers. comm. W. Renema, 2007-04-05, Renema in press).

*Stylophora tenuissima* Gerth, 1923

*Stylophora tenuissima* spec. nov — Gerth, 1923: 97, pl. 8 fig. 1
*Stylophora tenuissima* Gerth — Gerth, 1925: 66
*Stylophora tenuissima* (Gerth) — Umbgrove, 1926: 41
*Stylophora* cf. *tenuissima* Gerth — Umbgrove, 1929a: 63
*Stylophora tenuissima* Gerth — Gerth, 1931a: 142

Syntypes from the Upper Miocene in the east part of Sembulu-anticline collected by L.M.R. Rutten (3 specimens RGM.167793 (pl. 8 fig. 1 right in Gerth, 1923) [pl. 90 fig. 12], RGM.167794 (pl. 8 fig. 1 left in Gerth, 1923) [pl. 90 fig. 13], RGM.167795 [pl. 90 fig. 14]).

*Stylophora verrucosa* Gerth, 1923

*Stylophora verrucosa* spec. uov — Gerth, 1923: 97-98, pl. 7 fig. 7-8
*Stylophora verrucosa* Gerth — Gerth, 1925: 66; Gerth, 1931a: 142

Syntypes from the Upper Miocene in the east part of Sembulu-anticline collected by L.M.R. Rutten (2 specimens RGM.43017 (pl. 7 fig. 7 in Gerth, 1923) [pl. 90 fig. 15 and pl. 91 fig. 1], RGM.167796 [pl. 91 fig. 2 and pl. 91 fig. 3]).

Genus *Stylophyllopsis* Frech, 1890
*Stylophyllopsis timoricus* Vinassa de Regny, 1915

*Stylophyllopsis timoricus* n. f — Vinassa de Regny, 1915: 101, pl. 68(6) fig. 1-2

Holotype from the Triassic of Fatu Nemassi collected by Molengraaff during the 1911 Timor expedition (specimen THDKA.12837 (2 fragments) (pl. 68(6) fig. 1-2 in Vinassa de Regny, 1915) [pl. 91 fig. 4 and pl. 91 fig. 5]).

Genus *Symphyllia* Milne Edwards & Haime, 1848b
*Symphyllia molengraaffi* Felix, 1915

*Symphyllia Molengraaffi* — Felix, 1915: 10-11, pl. 37 fig. 7

Syntype from the Neogene-Quaternary: conglomerate with "Riffkalkzement" of a hill right from road from Nèke to Niki Niki at the watershed between Noil Noni and Noil Liu collected by Molengraaff during the 1911 Timor expedition (specimen THDKA.15693 [pl. 91 fig. 6 and pl. 91 fig. 7]).

*Symphyllia recta* Dana, 1846

*Symphyllia* cf. *S. recta* Dana — Umbgrove, 1946a: 531, pl. 79 fig. 4

Material from the Lower Pliocene: marl in Tapak beds near Gunung Linggapadang collected by Umbgrove in 1928 (specimen RGM.77634 (pl. 79 fig. 4 in Umbgrove, 1946a) [pl. 91 fig. 8]).

Genus *Synaraea* Verrill, 1864
*Synaraea javana* Gerth, 1921c

*Synaraea javana* spec. nov — Gerth, 1921c: 433-434, pl. 57 fig. 29

Syntypes from the Miocene: Cilanang Formation of Tjelak collected by K. Martin & Icke (specimen RGM.3954 [pl. 91 fig. 9 and pl. 91 fig. 10]); Nyalingdung Formation near Ciangsana collected by K. Martin & Icke (2 specimens RGM.525205 [pl. 91 fig. 11 and pl. 91 fig. 12], RGM.525206 [pl. 91 fig. 13]), of Cibeber collected by K. Martin & Icke (specimen RGM.3957 (pl. 57 fig. 29 in Gerth, 1921c) [pl. 91 fig. 14 and pl. 91 fig. 15]), from the Upper Miocene of Cadasngampar collected by R.D.M. Verbeek (specimen RGM.3956 [pl. 92 fig. 1 and pl. 92 fig. 2]).

Genus *Thecosmilia* Milne Edwards & Haime, 1848e
*Thecosmilia caespitosa*
*Thecosmilia caespitosa* var. *minor* Vinassa de Regny, 1915

*Thecosmilia caespitosa* Reuß sp. var. *minor* n — Vinassa de Regny, 1915: 85-86

Holotype from the Upper Triassic along the path from Nilulet to Noil Toko collected by Molengraaff in April, 1911 (specimen RGM.529799 [pl. 92 fig. 3 and pl. 92 fig. 4]).

*Thecosmilia fenestrata*
*Thecosmilia fenestrata* var. *multiseptata* Vinassa de Regny, 1915

*Thecosmilia fenestrata* Reuß var. *multiseptata* n — Vinassa de Regny, 1915: 88-89, pl. 70(8) fig. 3

Holotype from the Triassic near Fatu Saaidjan along path from Bonleo to Kapan (specimen THDKA.12830 (2 fragments) (pl. 70 (8) fig. 3 in Vinassa de Regny, 1915) [pl. 92 fig. 5]).

*Thecosmilia molengraaffi* Vinassa de Regny, 1915

*Thecosmilia Molengraaffi* n. f — Vinassa de Regny, 1915: 90-91, pl. 70(8) fig. 8-11

Holotype from the Triassic along the path from Nilulet to Noil Toko (specimen THDKA.12829 (4 fragments) (pl. 70 (8) fig. 8-11 in Vinassa de Regny, 1915) [pl. 92 fig. 6]).

Genus *Trachyphyllia* Milne Edwards & Haime, 1848e
*Trachyphyllia crassa* Martin, 1880a

*Trachyphyllia crassa* nov. spec — Martin, 1880a: 136-137, pl. 24 fig. 12
*Trachyphyllia crassa* Mart — Gerth, 1925: 55

Holotype from the Miocene probably in the western part of Cidamar collected by Junghuhn (specimen RGM.3828 (pl. 24 fig. 12 in Martin, 1880a) [pl. 92 fig. 7, pl. 92 fig. 8, pl. 92 fig. 9 and pl. 92 fig. 10]).

Genus *Trochocyathus* Milne Edwards & Haime, 1848a
*Trochocyathus laterocristatus* Milne Edwards & Haime, 1848a

*Trochocyathus latero-cristatus* E. H — Felix, 1920: 16-18, 36, pl. 128 fig. 10

Material from the Upper Pliocene-Pleistocene near Noil Enfoat between Lollo and Wekmurak (specimen THDKA.15667 (pl. 128 (3) fig. 10 in Felix, 1920) [pl. 92 fig. 11 and pl. 92 fig. 12]).

*Trochocyathus schmidti* Gerth, 1923

*Trochocyathus Schmidti* spec. nov — Gerth, 1923: 54-55, pl. 1 fig. 11-13
*Trochocyathus Schmidti* Gerth — Gerth, 1925: 52
*Trochocyathus schmidti* Gerth — Gerth, 1931a: 130

Syntypes from the Upper Miocene of Tanah Belang collected by Schmidt, leg. 1902 (17 specimens RGM.43023 (pl. 1 fig. 11 in Gerth, 1923) [pl. 92 fig. 13, pl. 92 fig. 14 and pl. 92 fig. 15], RGM.167775 (pl. 1 fig. 12 in Gerth, 1923) [pl. 93 fig. 1, pl. 93 fig. 2 and pl. 93 fig. 3], RGM.167776 (pl. 1 fig. 13 in Gerth, 1923) [pl. 93 fig. 4, pl. 93 fig. 5 and pl. 93 fig. 6], RGM.525400 [pl. 93 fig. 7, pl. 93 fig. 8, pl. 93 fig. 9 and pl. 93 fig. 10], RGM.525401 [pl. 93 fig. 11, pl. 93 fig. 12 and pl. 93 fig. 13], RGM.525402 [pl. 93 fig. 14, pl. 93 fig. 15 and pl. 94 fig. 1], RGM.525403-525406 [pl. 94 fig. 2 and pl. 94 fig. 3], RGM.525407-525410 [pl. 94 fig. 4 and pl. 94 fig. 5], RGM.525411-525413).

Genus *Trochoseris* Milne Edwards & Haime, 1849
*Trochoseris florescens* Felix, 1921

*Trochoseris florescens* Fel — Gerth, 1923: 103-104, pl. 8 fig. 8; Gerth, 1933: 36-37, 9, pl. 2 fig. 4-4a

Material from the Miocene near Kabasian collected by Witkamp (specimen RGM.17710 (pl. 8 fig. 8 in Gerth, 1923) [pl. 94 fig. 6, pl. 94 fig. 7 and pl. 94 fig. 8]).

Remarks: Gerth (1933) studied several and illustrated two specimens from Kali Gede near Bendo.

Genus *Tropidocyathus* Milne Edwards & Haime, 1848a
*Tropidocyathus affinis* Martin, 1880a

*Tropidocyathus affinis* nov. spec — Martin, 1880a: 132-133, pl. 24 fig. 1, pl. 26 fig. 1
*Tropidocyathus affinis* Mart — Gerth, 1925: 52; Gerth, 1931a: 130

Holotype from the Miocene locality "Junghuhn R" collected by Junghuhn (specimen RGM.167529 (pl. 24 fig. 1, pl. 26 fig. 1 in Martin, 1880a) [pl. 94 fig. 9 and pl. 94 fig. 10]).

*Tropidocyathus nudus* Martin, 1880a

*Tropidocyathus*(?) *nudus* nov. spec — Martin, 1880a: 133-134, pl. 24 fig. 2-4, pl. 26 fig. 2
*Tropidocyathus nudus* Mart — Gerth, 1921c: 393-394, pl. 57 fig. 17-19; Gerth, 1925: 52; Gerth, 1931a: 130; Gerth, 1933: 12

Syntypes from the Miocene locality "Junghuhn R" collected by Junghuhn (6 specimens RGM.3775 (pl. 24 fig. 2 in Martin, 1880a) [pl. 94 fig. 11, pl. 94 fig. 12 and pl. 94 fig. 13], RGM.167530 (pl. 24 fig. 3 in Martin, 1880a) [pl. 94 fig. 14 and pl. 94 fig. 15], RGM.167531 (pl. 24 fig. 4 in Martin, 1880a) [pl. 95 fig. 1], RGM.525362 [pl. 95 fig. 2 and pl. 95 fig. 3], RGM.525363 [pl. 95 fig. 4 and pl. 95 fig. 5], RGM.525364 [pl. 95 fig. 6 and pl. 95 fig. 7]).

Additional material from the Miocene in the Ngembak borehole B collected by Van Dijk (3 specimens RGM.3773 (pl. 57 fig. 17 in Gerth, 1921c) [pl. 95 fig. 8 and pl. 95 fig. 9], RGM.167527 (pl. 57 fig. 18 in Gerth, 1921c) [pl. 95 fig. 10 and pl. 95 fig. 11], RGM.167528 (pl. 57 fig. 19 in Gerth, 1921c)).

Remarks: Specimen RGM.167528 is not present since before Februari, 1973.

Genus *Turbinaria* Oken, 1815
*Turbinaria tenuis* Marenzeller, 1908

*Turbinaria* cf. *tenuis* Marenz — Gerth, 1923: 123, pl. 7 fig. 12

Material from the Miocene near Kabasian collected by Witkamp (specimen RGM.43001 (pl. 7 fig. 12 in Gerth, 1923) [pl. 95 fig. 12]).

*Turbinaria* sp.

*Turbinaria* spec — Gerth, 1923: 123-124, pl. 9 fig. 9

Material from the Miocene along the Sungai Pelarang collected by Mühlberg (specimen RGM. 43004 (pl. 9 fig. 9 in Gerth, 1923) [pl. 95 fig. 13 and pl. 95 fig. 14]).

Subclass Tabulata Milne Edwards & Haime, 1850a
Genus *Aulohelia* Gerth, 1921a
*Aulohelia irregularis* Gerth, 1921a

*Aulohelia irregularis* spec. nov — Gerth, 1921a: 120, pl. 149 fig. 13, pl. 150 fig. 15-17
*Aulohelia irregularis* nov. sp — Gerth, 1921b: 17, pl. 2 fig. 12
*Anlohelia irregularis* Gerth — Gerth, 1931a: 123
*Aulohelia irregularis* Gerth 1921 — Ezzoubaïr, 2000: 22, 34-35, 239-243, text-fig. III-5-7, 8, V-10-1, pl. 1 fig. 6, pl. 24

Syntypes from the Permian near Basleo (sample IPB Gerth.47a+b (2 fragments) (pl. 150 fig. 17 in Gerth, 1921a), 5 specimens RGM.529609-529613, thin section IPB Gerth.40 (pl. 150 fig. 16 in Gerth, 1921a)), collected by Molengraaff during the 1911 Timor expedition (specimen THDKA.11810 (pl. 150 (6) fig. 15 in Gerth, 1921a, pl. 2 fig. 12 in Gerth, 1921b) [pl. 95 fig. 15]), of Noil Fatu collected by Molengraaff during the 1911 Timor expedition (10 specimens RGM. 529615-529624), between Niki Niki and the Noil Fatu collected by Molengraaff during the 1911 Timor expedition (specimen THDKA.11809 (pl. 149 (5) fig. 13 in Gerth, 1921a) [pl. 96 fig. 1 and pl. 96 fig. 2]).

Additional material from the Permian near Basleo collected during the Snellius expedition (9 thin sections RGM.532364 (text-fig. V-10-1, pl. 1 fig. 6, pl. 24 (?) in Ezzoubaïr, 2000), RGM.532365 (text-fig. V-10-1, pl. 1 fig. 6, pl. 24 (?) in Ezzoubaïr, 2000), RGM.532366 (text-fig. V-10-1, pl. 1 fig. 6, pl. 24 (?) in Ezzoubaïr, 2000), RGM.532367 (text-fig. V-10-1, pl. 1 fig. 6, pl. 24 (?) in Ezzoubaïr, 2000), RGM.532368 (text-fig. V-10-1, pl. 1 fig. 6, pl. 24 (?) in Ezzoubaïr, 2000), RGM.532369 (text-fig. V-10-1, pl. 1 fig. 6, pl. 24 (?) in Ezzoubaïr, 2000), RGM.532370 (text-fig. V-10-1, pl. 1 fig. 6, pl. 24 (?) in Ezzoubaïr, 2000), RGM.532371 (text-fig. V-10-1, pl. 1 fig. 6, pl. 24 (?) in Ezzoubaïr, 2000), RGM.532372 (text-fig. V-10-1, pl. 1 fig. 6, pl. 24 (?) in Ezzoubaïr, 2000)).

Remarks: Gerth (1921a) studied more than 20 specimens from Basleo and from Noil Fatu, both distributed over IPB and NNM. The specimen on pl. 150 fig. 15 of Gerth (1921a) is from Basleo and is supposed to be at IPB but was not mentioned in the list sent by Manuel Kunz (November, 2005). Plate 2 fig. 12 in Gerth (1921b) is the same as pl. 150 (6) fig. 15 in Gerth (1921a). Ezzoubaïr (2000) made chemical analysis of some material.

*Aulohelia laevis* Gerth, 1921a

*Aulohelia laevis* spec. nov — Gerth, 1921a: 120, pl. 150 fig. 18
*Aulohelia laevis* nov. sp — Gerth, 1921b: 17
*Anlohelia laevis* Gerth — Gerth, 1931a: 123
*Aulohelia laevis* Gerth 1921 — Ezzoubaïr, 2000: 244-246, pl. 25

Syntype from the Permian near Basleo (sample IPB Gerth.48 (3 specimens) (pl. 150 fig. 18 in Gerth, 1921a)).

Additional material from the Permian of Fatu Inu collected during the Snellius expedition (specimen RGM.532491 (pl. 25 fig. 2 in Ezzoubaïr, 2000) [pl. 96 fig. 3 and pl. 96 fig. 4], 2 thin sections RGM. 532180 (pl. 25 fig. 3-8 (?) in Ezzoubaïr, 2000), RGM. 532363 (pl. 25 fig. 3-8 (?) in Ezzoubaïr, 2000)).

Genus *Aulopora* Goldfuss, 1826
*Aulopora timorica* Gerth, 1921a

*Aulopora timorica* spec. nov — Gerth, 1921a: 117-118, pl. 149 fig. 9, pl. 150 fig. 11-12
*Aulopora timorica* nov. sp — Gerth, 1921b: 16
*Aulopora timorica* Gerth — Gerth, 1931a: 122
*Aulopora timorica* Gerth 1921 — Ezzoubaïr, 2000: 251-263, text-fig. V-11-1, 2, pl. 26, 27

Syntypes from the Permian near Basleo collected by Molengraaff during the 1911 Timor expedition (specimen THDKA.11806 (pl. 150 (6) fig. 11 in Gerth, 1921a) [pl. 96 fig. 5]), collected by Molengraaff, B. May, 1911 (specimen THDKA.11805 (pl. 149 (5) fig. 9 in Gerth, 1921a) [pl. 96 fig. 6]), of Nussa Tenggara Timur (specimen IPB Gerth.44 (pl. 150 fig. 12 in Gerth, 1921a)).

Additional material from the Permian near Sumpeh collected during the Snellius expedition (3 thin sections RGM.532423 (pl. 26, 27 in Ezzoubaïr, 2000), RGM.532424 (pl. 26, 27 in Ezzoubaïr, 2000), RGM.532425 (pl. 26, 27 in Ezzoubaïr, 2000)).

Remarks: Gerth (1921a) studied eight specimens from Basleo, stored both at NNM and IPB, one specimen from Bitauni and one from Koaféu near Baung (IPB).

Genus *Chaetetes* Fischer von Waldheim, 1810
*Chaetetes deterrai* Gerth, 1938

*Chaetetes Deterrai* spec. nov — Gerth, 1938: 235-236, pl. 15 fig. 10-11

Holotype from the Upper Triassic Bod Karbu in northwest Himalaya collected by Yale University in 1932 (2 thin sections RGM.525548 (pl. 15 fig. 11 in Gerth, 1938) [pl. 96 fig. 7], RGM.525549 (pl. 15 fig. 10 in Gerth, 1938) [pl. 96 fig. 8]).

Genus *Cladochonus* M'Coy, 1847
*Cladochonus crassus* Ezzoubaïr, 2000

*Cladochonus crassus* — Ezzoubaïr, 2000: 39-40, text-fig. III-7-2,3

Material from the Permian near Sumpeh (thin section RGM.532173), collected during the Snellius expedition (thin section RGM.532174), near Tuninu collected during the Snellius expedition (thin section RGM.532175).

### *Cladochonus magnus* Gerth, 1921a

*Cladochonus magnus* spec. nov — Gerth, 1921a: 118, pl. 149 fig. 10-11
*Cladochonus magnus* nov. sp — Gerth, 1921b: 16, pl. 2 fig. 10
*Cladochonus magnus* Gerth — Gerth, 1931a: 123
*Cladochonus magnus* Gerth 1921 — Ezzoubaïr, 2000: 6, 265-277, text-fig. V-12-1, 2, pl. 28-29

Syntypes from the Permian near Basleo (specimen IPB Gerth.45 (pl. 149 (5) fig. 11 in Gerth, 1921a), specimen RGM.532148 [pl. 96 fig. 9]), collected by Molengraaff during the 1911 Timor expedition (4 specimens RGM.532145-532147, THDKA.11807 (pl. 149 (5) fig. 10 in Gerth, 1921a, pl. 2 fig. 10 in Gerth, 1921b) [pl. 96 fig. 10 and pl. 96 fig. 11]).

Additional material from the Permian near Basleo collected during the Snellius expedition (sample RGM.168349 (6 specimens), 2 specimens RGM.532488 (text-fig. V-12-1 top right, pl. 28 fig. 1 in Ezzoubaïr, 2000) [pl. 96 fig. 12], RGM.532489 (text-fig. V-12-1 middle and bottom right in Ezzoubaïr, 2000) [pl. 96 fig. 13 and pl. 96 fig. 14], 5 thin sections RGM.532167 (text-fig. V-12-2A-D, pl. 28 fig. 2-8, pl. 29 in Ezzoubaïr, 2000), RGM.532176 (text-fig. V-12-2A-D, pl. 28 fig. 2-8, pl. 29 in Ezzoubaïr, 2000), RGM.532177 (text-fig. V-12-2A-D, pl. 28 fig. 2-8, pl. 29 in Ezzoubaïr, 2000), RGM.532178 (text-fig. V-12-2A-D, pl. 28 fig. 2-8, pl. 29 in Ezzoubaïr, 2000), RGM.532179 (text-fig. V-12-2A-D, pl. 28 fig. 2-8, pl. 29 in Ezzoubaïr, 2000)).

Remarks: Gerth (1921a) studied seven specimens from Basleo, stored both at IPB and NNM, one from Maubesi (IPB). Plate 2 fig. 10 in Gerth (1921b) is the same as pl. 149 (5) fig. 10 in Gerth (1921a).

## Genus *Dictyopora* Gerth, 1921a

### *Dictyopora incrustans* Gerth, 1921a

*Dictyopora incrustans* spec. nov — Gerth, 1921a: 123-124, pl. 150 fig. 25
*Dictyopora incrustans* gen. nov. spec. nov — Gerth, 1921b: 17, pl. 1 fig. 15
*Dyctyopora incrustans* Gerth — Gerth, 1931a: 123

Holotype from the Permian of Hatu Dame (specimen IPB Gerth.52 (pl. 150 fig. 25 in Gerth, 1921a, pl. 1 fig. 15 in Gerth, 1921b)).

Remarks: Plate 1 fig. 15 in Gerth (1921b) is the same as pl. 150 fig. 25 in Gerth (1921a).

## Genus *Favosites* De Lamarck, 1816

### *Favosites parasitica* M'Coy in Griffith, 1844

*Favosites parasitica* I. Morris — Martin, 1883: 39-40, pl. 1 fig. 6

Material from the Permian of Kali Mati near Kupang collected by C.F.A. Schneider (specimen RGM.11978 (pl. 1 fig. 6 in Martin, 1883)).

### *Favosites permica* Gerth, 1921a

*Favosites permica* spec. nov — Gerth, 1921a: 101, pl. 149 fig. 1-3, pl. 150 fig. 1
*Favosites permica* spec. nov — Gerth, 1921b: 10, pl. 2 fig. 1
*Favosites permica* Gerth — Gerth, 1931a: 122
*"Favosites" permica* Gerth 1921 — Ezzoubaïr, 2000: 5, 91-101, text-fig. V-3-1, 2, pl. 6, 7

Syntypes from the Permian near Basleo (sample IPB Gerth.32 (2 specimens, 2 thin sections) (pl. 149 fig. 1-3, pl. 150 fig. 1 in Gerth, 1921a, pl. 2 fig. 1 in Gerth, 1921b)), collected by Molengraaff during the 1911 Timor expedition (specimen THDKA.11797 (pl. 149 (5) fig. 1-2 in Gerth, 1921a, pl. 2 fig. 1 in Gerth, 1921b) [pl. 96 fig. 15 and pl. 97 fig. 1]).

Additional material from the Permian of Fatu Bena collected during the Snellius expedition (2 specimens RGM.32790A (text-fig. V-3-1, 2, pl. 6 fig. 1 in Ezzoubaïr, 2000) [pl. 97 fig. 2 and pl. 97 fig. 3], RGM.32790B (text-fig. V-3-1B, pl. 6 fig. 2-8, pl. 7 in Ezzoubaïr, 2000) [pl. 97 fig. 4], 7 thin sections RGM.532477-532479 (text-fig. V-3-1B in Ezzoubaïr, 2000), RGM.532480-532483).

Remarks: Gerth (1921a) studied six specimens from Basleo (IPB and NNM). Plate 2 fig. 1 in Gerth (1921b) is the same as pl. 149 (5) fig. 1 in Gerth (1921a).

### *Favosites relicta* Gerth, 1921a

*Favosites relicta* spec. nov — Gerth, 1921a: 100, pl. 146 fig. 25, pl. 149 fig. 4
*Favosites relicta* Gerth — Gerth, 1931a: 122

Holotype from the Permian near Basleo collected by Molengraaff during the 1911 Timor expedition (specimen THDKA.11798 (pl. 146 (2) fig. 25, pl. 149 (5) fig. 4 in Gerth, 1921a) [pl. 97 fig. 5 and pl. 97 fig. 6]).

Remarks: Gerth (1921a) presents Mandeo as locality for the holotype of *Favosites relicta*, while all labels state Basleo.

### *Favosites* sp.

*Favosites* sp — Gerth, 1921a: 100-101, pl. 147 fig. 22-23
*Favosites* spec — Gerth, 1927a: 228-229, pl. 36 fig. 8-9

Material of Noordrivier (specimen RGM.12101 (pl. 36 fig. 8 and/or 9 in Gerth, 1927a)); black limestone of Noordrivier collected by Heldring (specimen RGM.12102 (pl. 36 fig. 8 and/or 9 in Gerth, 1927a)), from the Permian of Mandeo (thin section RGM.529412 (pl. 147 fig. 23 in Gerth, 1921a) [pl. 97 fig. 7]), collected by Molengraaff during the 1911 Timor expedition (specimen THDKA.11799 (pl. 147 (3) fig. 22-23 in Gerth, 1921a) [pl. 97 fig. 8 and pl. 97 fig. 9]).

Remarks: Specimen RGM.12101 is probably cut into thin sections.

Genus *Gertholites* Sokolov, 1955
Typespecies *Gertholites curvatus* (Waagen & Wentzel, 1886)

*Pachypora curvata* W. u. W — Gerth, 1921a: 107-108, pl. 148 fig. 15-18; Gerth, 1921b: 13, pl. 2 fig. 4
*Thamnopora* cf. *curvata* (Waagen and Wentzel) — Visser & Hermes, 1962: 53, encl. 17 fig. 14a, 15
*Gertholites curvatus* (Waagen et Wentzel, 1886) sensu Gerth 1921 — Ezzoubaïr, 2000: 31-34, 41, 125-133, text-fig. III-5-5, 6, V-6-1, 2, 3, pl. 10

Material from the Permian near Basleo (sample IPB Gerth.36a,b (3 specimens, 2 thin sections) (pl. 148 fig. 15-18 in Gerth, 1921a)), of Fatu Bena collected during the Snellius expedition (9 thin sections RGM.532419 (text-fig. V-6-1, 2, 3, pl. 10 in Ezzoubaïr, 2000), RGM.532420 (text-fig. V-6-1, 2, 3, pl. 10 in Ezzoubaïr, 2000), RGM.532421 (text-fig. V-6-1, 2, 3, pl. 10 in Ezzoubaïr, 2000), RGM.532422 (text-fig. V-6-1, 2, 3, pl. 10 in Ezzoubaïr, 2000), RGM.532433 (text-fig. V-6-1, 2, 3, pl. 10 in Ezzoubaïr, 2000), RGM.532434 (text-fig. V-6-1, 2, 3, pl. 10 in Ezzoubaïr, 2000), RGM.532435 (text-fig. V-6-1, 2, 3, pl. 10 in Ezzoubaïr, 2000), RGM.532436 (text-fig. V-6-1, 2, 3, pl. 10 in Ezzoubaïr, 2000), RGM.532437 (text-fig. V-6-1 in Ezzoubaïr, 2000)); 'B' Member of Kamundan collected by Leine (2 specimens RGM.298038a (fig 14 in Visser & Hermes, 1962) [pl. 97 fig. 10], RGM.298039 (fig. 15 in Visser & Hermes, 1962) [pl. 97 fig. 11]).

Remarks: Plate 2 fig. 4 in Gerth (1921b) is the same as pl. 148(4) fig. 15 in Gerth (1921a).

*Gertholites lobatus* (Gerth, 1921a)

*Pachypora lobata* spec. nov — Gerth, 1921a: 109, pl. 148 fig. 21-23; Gerth, 1921b: 13
*Pachypora lobata* Gerth — Gerth, 1931a: 122
*Gertholites lobatus* Gerth 1921 — Ezzoubaïr, 2000: 159-171, text-fig. V-6-8, 9, pl. 14-15

Syntypes from the Permian near Basleo (specimen IPB Gerth.38 (1 specimen, 1 thin section) (pl. 148 fig. 21-22 in Gerth, 1921a)), collected by Molengraaff during the 1911 Timor expedition (specimen RGM.532127 (3 fragments) [pl. 97 fig. 12], thin section RGM.529410 (pl. 148 fig. 23 in Gerth, 1921a) [pl. 97 fig. 13]).

Additional material from the Permian near Sumpeh collected during the Snellius expedition (6 thin sections RGM.532438 (pl. 14-15 (not sure which figure?) in Ezzoubaïr, 2000), RGM.532439 (pl. 14-15 (not sure which figure?) in Ezzoubaïr, 2000), RGM.532440 (pl. 14-15 (not sure which figure?) in Ezzoubaïr, 2000), RGM.532441 (pl. 14-15 (not sure which figure?) in Ezzoubaïr, 2000), RGM.532442 (pl. 14-15 (not sure which figure?) in Ezzoubaïr, 2000), RGM.532443 (pl. 14-15 (not sure which figure?) in Ezzoubaïr, 2000)).

Remarks: Gerth (1921a) studied three specimens from Basleo, stored at IPB and NNM. Two fragments of RGM.532127 do belong together for sure, one only questionably belongs to it.

*Gertholites monstrosa* (Gerth, 1921a)

*Pachypora monstrosa* spec. nov — Gerth, 1921a: 108-109, pl. 148 fig. 19-20, pl. 150 fig. 4-5; Gerth, 1921b: 13, pl. 2 fig. 5
*Pachypora monstrosa* Gerth — Gerth, 1931a: 122
*Gertholites monstrosus* Gerth 1921 — Ezzoubaïr, 2000: 39-41, 145-157, text-fig. III-7-2,3, V-6-5, 6, 7, pl. 12-13

Syntypes from the Permian near Basleo (sample IPB Gerth.37a-d (4 specimens, 2 thin sections) (pl. 148 fig. 19-20, pl. 150 fig. 4-5 in Gerth, 1921a), 15 specimens RGM.532129-532143).

Additional material from the Permian of Nussa Tenggara Timur (2 specimens RGM.523008 (text-fig. V-6-5, pl. 12-13 non pl. 12 fig. 4-5. in Ezzoubaïr, 2000), RGM.523009 (text-fig. V-6-6, pl. 12 fig. 4-5, pl. 13? in Ezzoubaïr, 2000)).

Remarks: Gerth (1921a) studied twelve specimens from Basleo distributed over IPB and NNM. Plate 2 fig. 5 in Gerth (1921b) is the same as Pl. 148 (4) fig. 19 in Gerth (1921a).

*Gertholites sp.* Ezzoubaïr, 2000

*Pachypora Jabiensis* W. u. W — Gerth, 1921a: 105-107, pl. 148 fig. 11-14
*Gertholites jabiensis* Gerth 1921 — Ezzoubaïr, 2000: 20-22, 28-30, 40, 135-143, text-fig. III-5-1 till 4, III-7-2,3, V-6-3, 4, pl. 1 fig. 1-2, pl. 11

Material from the Permian near Netu Pantukak collected during the Snellius expedition (fragment RGM.532490 (pl. 11 fig. 1(, 2?) in Ezzoubaïr, 2000), 3 thin sections RGM.532450 (text-fig. V-6-3A in Ezzoubaïr, 2000), RGM.532451 (text-fig. V-6-3B in Ezzoubaïr, 2000), RGM.532452 (text-fig. V-6-4?, pl. 11 fig. 3-4, (5-8?) in Ezzoubaïr, 2000)), of Nussa Tenggara Timur (sample IPB Gerth.35a-d (6 specimens, 1 thin section) (pl. 148 fig. 11-14 in Gerth, 1921a)).

Remarks: The specimens named *Pachypora jabiensis* in Gerth (1921a) are considered another species by Ezzoubaïr (2000). Thus the species *Gertholites* sp. was erected. However, the name is unavailable, since neither the intention to establish a new name, nor the appointment of a name-bearing type were explicitely given (art. 16 in ICZN (1999)). Therefore we call this species provisionally *Gertholites* sp.

Genus *Heterocoenites* Gerth, 1921a
*Heterocoenites crassus* Gerth, 1921a

*Heterocoenites crassus* spec. nov — Gerth, 1921a: 111, pl. 150 fig. 9
*Heterocoenites crassa* nov. sp — Gerth, 1921b: 12
*Heterocoenites crassus* Gerth — Gerth, 1931a: 122
*Heterocoenites crassus* Gerth 1921 — Ezzoubaïr, 2000: 182-184, pl. 17

Syntype from the Permian near Basleo (specimen IPB Gerth.40* (pl. 150 (6) fig. 9 in Gerth, 1921a)).

Additional material from the Permian of Fatu Bena collected during the Snellius expedition (specimen RGM.532487 (pl. 17 fig. 1-8 in Ezzoubaïr, 2000) [pl. 97 fig. 14], 4 thin sections RGM.532169-532172).

Remarks: Gerth (1921a) studied three specimens from Basleo (IPB Nr. 666).

Typespecies *Heterocoenites variabilis* Gerth, 1921a

*Heterocoenites variabilis* spec. nov — Gerth, 1921a: 110-111, pl. 149 fig. 6-8, pl. 150 fig. 6-8
*Heterocoenites variabilis* nov. sp — Gerth, 1921b: 12, pl. 1 fig. 13
*Heterocoenites variabilis* Gerth — Gerth, 1931a: 122
*Heterocoenites variabilis* Gerth 1921 — Ezzoubaïr, 2000: 174-181, text-fig. V-7-1, 2, pl. 16

Syntypes from the Permian near Basleo (sample IPB Gerth.39a,b (2 specimens, 1 thin section) (pl. 150 (6) fig. 6-7 in Gerth, 1921a), 2 thin sections RGM. 529413 (pl. 149 fig. 8 in Gerth, 1921a) [pl. 97 fig. 15], RGM.529414 (pl. 150 fig. 8 in Gerth, 1921a) [pl. 98 fig. 1]), collected by Molengraaff during the 1911 Timor expedition (9 specimens RGM.529801-529808, THDKA.11813 (pl. 149 (6) fig. 6-7 in Gerth, 1921a) [pl. 98 fig. 2 and pl. 98 fig. 3]).

Additional material from the Permian of Fatu Bena collected during the Snellius expedition (sample RGM.168315 (14 specimens) (text-fig. V-7-1, 2, pl. 16 in Ezzoubaïr, 2000), 5 specimens RGM. 168315a (text-fig. V-7-1B, pl. 16 fig. 4 in Ezzoubaïr, 2000), RGM.168315b, RGM.168315c, RGM.168315d, RGM.168315e, 15 thin sections RGM.532151 (pl. 16 fit. 4 in Ezzoubaïr, 2000), RGM.532153-532154 (text-fig. V-7-1B in Ezzoubaïr, 2000), RGM.532155 (pl. 16 fit. 4 in Ezzoubaïr, 2000), RGM.532156 (text-fig. V-7-1C in Ezzoubaïr, 2000), RGM.532157-532166).

Remarks: Gerth (1921a) studied about 15 specimens from Basleo (stored at IPB and NNM). Plate 1 fig. 13 in Gerth (1921b) is the same as pl. 149 (5) fig. 6 in Gerth (1921a).

Genus *Lovcenipora* Giattini, 1902
*Lovcenipora chaetetiformis* Vinassa de Regny, 1915

*Lovcenipora chaetetiformis* n. f — Vinassa de Regny, 1915: 106-107, pl. 67(5) fig. 1-4

Syntypes from the Upper Triassic at a small hill south of Fatu Noi Suaam collected by Molengraaff during the 1911 Timor expedition (2 specimens THDKA.12839 [pl. 98 fig. 4], THDKA.12840 (pl. 67(5) fig. 1-4 in Vinassa de Regny, 1915) [pl. 98 fig. 5 and pl. 98 fig. 6]).

*Lovcenipora magnopora* Vinassa de Regny, 1915

*Lovcenipora magnopora* n. f — Vinassa de Regny, 1915: 107, pl. 67(5) fig. 5-7

Syntype from the Upper Triassic at a small hill south of Fatu Noi Suaam collected by Molengraaff during the 1911 Timor expedition (fragment THDKA.12841 (8 fragments) (pl. 67(5) fig. 5 in Vinassa de Regny, 1915) [pl. 98 fig. 7]).

Remarks: Sample THDKA.12841 contains 8 rock fragments, some of which contain syntypes of *Lovcenipora magnopora*. At least the one depicted in fig. 5 is present. The ones depicted in fig. 6-7 are not recognised in this material.

Genus *Michelinia* De Koninck, 1842-1844
*Michelinia indica* Waagen & Wentzel, 1886

*Michelinia indica* W. u. W — Gerth, 1921a: 112-113, pl. 146 fig. 26, pl. 147 fig. 24-25; Gerth, 1921b: 13, pl. 1 fig. 14
*"Michelinia" indica* Waagen et Wentzel 1886 — Ezzoubaïr, 2000: 6, 21-22, 103-111, text-fig. V-4-1, 2, pl. 1 fig. 3-5, pl. 8

Material from the Permian near Basleo (specimen IPB Gerth.42 (pl. 147 fig. 24 in Gerth, 1921a), thin section RGM.529417 (pl. 146 fig. 26 in Gerth, 1921a) [pl. 98 fig. 8]), collected by Molengraaff during the 1911 Timor expedition (specimen THDKA. 11803 (pl. 147 (3) fig. 25 in Gerth, 1921a, pl. 1 fig. 14 in Gerth, 1921b) [pl. 98 fig. 9 and pl. 98 fig. 10]), near Tubu Lopo collected during the Snellius expedition (specimen RGM.168319 (pl. 8 fig.1-3 in Ezzoubaïr, 2000) [pl. 98 fig. 11 and pl. 98 fig. 12], 3 thin sections RGM.532389 (pl. 1 fig. 3-5, pl. 8 fig.4-8 (?) in Ezzoubaïr, 2000), RGM.532390 (pl. 1 fig. 3-5, pl. 8 fig.4-8 (?) in Ezzoubaïr, 2000), RGM.532391 (pl. 1 fig. 3-5, pl. 8 fig.4-8 in Ezzoubaïr, 2000)).

Remarks: Plate 1 fig. 14 in Gerth (1921b) is the same as pl. 147 (3) fig. 25 in Gerth (1921a). According to one label and according to Gerth (1921a) the locality of specimen THDKA.11803 is Basleo. According to another label it is Noil Tonini. We assume that the oldest label by Gerth reading Basleo is correct, and that the latter, younger, label is a misinterpretation.

Genus *Monilopora* Nicholson & Etheridge, 1879
*Monilopora beecheri* Grabau, 1899

*Monilopora Beecheri* Grabau — Gerth, 1921a: 119, pl. 149 fig. 12; Gerth, 1921b: 16, pl. 2 fig. 11

Material from the Permian near Basleo collected by Molengraaff during the 1911 Timor expedition (specimen THDKA.11808 (pl. 149 (5) fig. 12 in Gerth, 1921a, pl. 2 fig. 11 in Gerth, 1921b) [pl. 98 fig. 13]).

Remarks: Plate 2 fig. 11 in Gerth (1921b) is the same as pl. 149 (5) fig. 12 in Gerth (1921a).

*Monilopora crassa* (M'Coy, 1847)

*Monilopora crassa* M'Coy — Gerth, 1921a: 119, pl. 150 fig. 13-14

Material from the Permian near Basleo (sample IPB Gerth.46 (2 specimens) (pl. 150 fig. 13-14 in Gerth, 1921a)).

Genus *Pachypora* Lindström, 1873
*Pachypora oligopora* Vinassa de Regny, 1915

*Pachypora oligopora* n. f — Vinassa de Regny, 1915: 103-104, pl. 68(6) fig. 8-9

Holotype from the Triassic of Fatu Nemassi collected by Molengraaff during the 1911 Timor expedition (fragment THDKA.12838 (pl. 68(6) fig. 8-9 in Vinassa de Regny, 1915) [pl. 98 fig. 14 and pl. 98 fig. 15]).

Remarks: Fragment THDKA.12838 does not look like fig. 8-9 in Vinassa de Regny (1915). Probably the other half of the specimen is illustrated, but the whereabouts of that fragment are unknown.

Genus *Palaeacis* Milne Edwards & Haime, 1857
*Palaeacis regularis* Gerth, 1921a

*Palaeacis regularis* spec. nov — Gerth, 1921a: 121, pl. 149 fig. 21-22, pl. 150 fig. 20
*Palaeacis regularis* nov. sp — Gerth, 1921b: 17, pl. 1 fig. 16
*Palaeacis regularis* Gerth — Gerth, 1931a: 123
*Palaeacis regularis* Gerth 1921 — Ezzoubaïr, 2000: 219-225, text-fig. V-9-1, pl. 22

Syntypes from the Permian near Basleo (sample IPB Gerth.49 (2 specimens) (pl. 149 fig. 21, pl. 150 fig. 20 in Gerth, 1921a), specimen RGM.529600 [pl. 99 fig. 1]), collected by Molengraaff during the 1911 Timor expedition (specimen THDKA.11811 (pl. 149(5) fig. 22 in Gerth, 1921a, pl. 1 fig. 16 in Gerth, 1921b) [pl. 99 fig. 2, pl. 99 fig. 3 and pl. 99 fig. 4]).

Additional material from the Permian of Fatu Bena collected during the Snellius expedition (6 thin sections RGM.532394 (text-fig. V-9-1, pl. 22 in Ezzoubaïr, 2000), RGM.532395 (text-fig. V-9-1, pl. 22 in Ezzoubaïr, 2000), RGM.532396 (text-fig. V-9-1, pl. 22 in Ezzoubaïr, 2000), RGM.532397 (text-fig. V-9-1, pl. 22 in Ezzoubaïr, 2000), RGM.532398 (text-fig. V-9-1, pl. 22 in Ezzoubaïr, 2000), RGM.532399 (text-fig. V-9-1, pl. 22 in Ezzoubaïr, 2000)).

Remarks: Gerth (1921a) studied seven specimens from Basleo, which are distributed over IPB and NNM. Plate 1 fig. 16 in Gerth (1921b) is the same as pl. 149 (5) fig. 22 in Gerth (1921a).

*Palaeacis tubifer* Gerth, 1921a

*Palaeacis tubifer* spec. nov — Gerth, 1921a: 122, pl. 150 fig. 21-24
*Palaeacis tubifer* nov. sp — Gerth, 1921b: 17
*Palaeacis tubifer* Gerth — Gerth, 1931a: 123
*Palaeacis tubifer* Gerth 1921 — Ezzoubaïr, 2000: 226-230, text-fig. V-9-2, pl. 23

Syntypes from the Permian near Basleo (sample IPB Gerth.50 (3 specimens) (pl. 150 (6) fig. 21, 23-24 in Gerth, 1921a), 4 specimens RGM.529602-529604, THDKA.11812 (pl. 150 (6) fig. 22 in Gerth, 1921a) [pl. 99 fig. 5 and pl. 99 fig. 6]).

Additional material from the Permian of Fatu Bena collected during the Snellius expedition (5 thin sections RGM.532400 (text-fig. V-9-2, pl. 23. in Ezzoubaïr, 2000), RGM.532401 (text-fig. V-9-2, pl. 23. in Ezzoubaïr, 2000), RGM.532402 (text-fig. V-9-2, pl. 23. in Ezzoubaïr, 2000), RGM.532403 (text-fig. V-9-2, pl. 23. in Ezzoubaïr, 2000), RGM.532404 (text-fig. V-9-2, pl. 23. in Ezzoubaïr, 2000)).

Remarks: Gerth (1921a) studied 18 specimens from Basleo ("E. W. u. M.").

Genus *Pseudofavosites* Gerth, 1921a
Typespecies *Pseudofavosites stylifer* Gerth, 1921a

*Pseudofavosites stylifer* spec. nov — Gerth, 1921a: 102-103, pl. 148 fig. 1-6, pl. 149 fig. 5, pl. 150 fig. 2-3; Gerth, 1921b: 11, pl. 2 fig. 2
*Pseudofavosites stylifer* Gerth — Gerth, 1931a: 122
*Pseudofavosites stylifer* Gerth 1921 — Ezzoubaïr, 2000: 61-79, text-fig. V-2-1 till 6, pl. 2-4, coverfigure

Syntypes from the Permian near Basleo (sample IPB Gerth.33a-f (1 thin section, 9 fragments) (pl. 148 (4) fig. 1, 3-6, pl. 5 fig. 5, pl. 6 fig. 3 in Gerth, 1921a), 3 specimens RGM.525694-525696), collected by Molengraaff during the 1911 Timor expedition (29 specimens RGM.525665-525692, THDKA.11800 (pl. 148(4) fig. 2 in Gerth, 1921a, pl. 2 fig. 2 in Gerth, 1921b) [pl. 99 fig. 7]), collected by Wanner in 1911 (specimen THDKA.11801 (pl. 150 (6) fig. 2 in Gerth, 1921a) [pl. 99 fig. 8]).

Additional material from the Permian of Fatu Inu collected during the Snellius expedition (specimen RGM.168290 (2 fragments) (pl. 2 fig. 8 in Ezzoubaïr, 2000) [pl. 99 fig. 9 and pl. 99 fig. 10], 3 thin sections RGM.532376 (text-fig. V-2-1, (pl. 3 fig. 3-8?) in Ezzoubaïr, 2000), RGM.532377 (pl. 3 fig. 3-8? in Ezzoubaïr, 2000), RGM.532378 (text-fig. V-2-2, (pl. 3 fig. 3-8?) in Ezzoubaïr, 2000)), near Netu Pantukak collected during the Snellius expedition (specimen

RGM.168288 (pl. 2 fig. 6-7 in Ezzoubaïr, 2000) [pl. 99 fig. 11]), near Sumpeh collected during the Snellius expedition (sample RGM.168287 (3 specimens, 2 thin sections) (pl. 2 fig. 4-5 in Ezzoubaïr, 2000)), near Tubu Lopo collected during the Snellius expedition (3 thin sections RGM.532373 (pl. 2 fig. 1-3, pl. 4 fig. 2 (?) in Ezzoubaïr, 2000) [pl. 99 fig. 12], RGM.532374 (pl. 2 fig. 1-3, pl. 4 fig. 2 (?) in Ezzoubaïr, 2000) [pl. 99 fig. 13], RGM.532375 (pl. 2 fig. 1-3, pl. 4 fig. 2 (?) in Ezzoubaïr, 2000)).

Remarks: Gerth (1921a) studied about 60 specimens from Basleo (distributed over IPB and NNM), nine specimens from between Niki Niki and the Noil Fatu and one specimen from Bitauni. Plate 2 fig. 2 in Gerth (1921b) is the same as pl. 148 (4) fig. 2 in Gerth (1921a).

*Pseudofavosites stylifer septosa* Gerth, 1921a

*Pseudofavosites stylifer* spec. nov. var. *septosa* var. nov — Gerth, 1921a: 104, pl. 148 fig. 7-8; Gerth, 1921b: 11, pl. 2 fig. 3
*Pseudofavosites stylifer* var. *septosa* Gerth — Gerth, 1931a: 122
*Pseudofavosites stylifer septosa* Gerth 1921 — Ezzoubaïr, 2000: 81-89, text-fig. V-2-7, 8, pl. 5

Syntype from the Permian near Basleo (specimen IPB Gerth.34 (pl. 148 fig. 7-8 in Gerth, 1921a)).

Additional material from the Permian of Nussa Tenggara Timur (specimen RGM.523001 (pl. 5 fig. 1-8 in Ezzoubaïr, 2000), 5 thin sections RGM.532379 (pl. 5 (?) in Ezzoubaïr, 2000) [pl. 99 fig. 14], RGM. 532380 (pl. 5 (?) in Ezzoubaïr, 2000) [pl. 99 fig. 15], RGM.532381 (pl. 5 fig. 4 in Ezzoubaïr, 2000) [pl. 100 fig. 1], RGM.532382-532383 (text-fig. V-2-7A in Ezzoubaïr, 2000)).

Remarks: Plate 2 fig. 3 in Gerth (1921b) is the same as pl. 148 (4) fig. 7 in Gerth (1921a).

Genus *Schizophorites* Gerth, 1921a
Typespecies *Schizophorites dubiosus* Gerth, 1921a

*Schizophorites dubiosus* spec. nov — Gerth, 1921a: 123, pl. 149 fig. 23, pl. 150 fig. 26-28
*Schizophorites dubiosus* Gerth — Gerth, 1931a: 123
*Schizophorites dubiosus* Gerth, 1921 — Ezzoubaïr, 2000: 113-121, text-fig. V-5-1, pl. 9

Syntypes from the Permian near Basleo (sample IPB Gerth.51a,b (4 specimens, 1 thin section) (pl. 149 (5) fig. 23, pl. 150 (6) fig. 26, 28 in Gerth, 1921a)), collected by Molengraaff during the 1911 Timor expedition (specimen THDKA.11808a (pl. 149 (5) fig. 12 in Gerth, 1921a) [pl. 100 fig. 2]).

Additional material from the Permian of Nussa Tenggara Timur (5 thin sections RGM.532426 (text-fig. V-5-1, pl. 9 in Ezzoubaïr, 2000), RGM.532427 (text-fig. V-5-1, pl. 9 in Ezzoubaïr, 2000), RGM. 532428 (text-fig. V-5-1, pl. 9 in Ezzoubaïr, 2000), RGM.532429 (text-fig. V-5-1, pl. 9 in Ezzoubaïr, 2000), RGM.532430 (text-fig. V-5-1, pl. 9 in Ezzoubaïr, 2000)).

Remarks: Gerth (1921a) studied nine specimens from Basleo (stored at IPB and NNM). At the bottom of the *Monilopora beecheri* that is illustrated on pl. 149 fig. 12 a small colony of *Schizophorites dubiosus* is present.

Genus *Striatopora* Hall, 1852
*Striatopora* sp.

*Striatopora* spec — Gerth, 1921a: 112, pl. 150 fig. 10

Material from the Permian near Basleo (specimen IPB Gerth.41* (pl. 150 (6) fig. 10 in Gerth, 1921a)).

Genus *Stylonites* Gerth, 1921a
*Stylonites porosus* Gerth, 1921a

*Stylonites porosus* spec. nov — Gerth, 1921a: 104-105, pl. 148 fig. 9-10
*Stylonites, porosa* nov. spec — Gerth, 1921b: 11, pl. 1 fig. 12
*Stylonites porosus* Gerth — Gerth, 1931a: 122

Syntypes from the Permian near Basleo collected by Molengraaff during the 1911 Timor expedition (specimen RGM.525697 [pl. 100 fig. 3 and pl. 100 fig. 4]), of a path Niki-Niki to Lenu near Noil Tonini collected by Oijens 1.XII.1910 (specimen THDKA. 11802 (2 fragments) (pl. 148 (4) fig. 9-10 in Gerth, 1921a, pl. 1 fig. 12 in Gerth, 1921b)).

Genus *Trachypsammia* Gerth, 1921a
*Trachypsammia dendroides* Gerth, 1921a

*Trachypsammia dendroides* spec. nov — Gerth, 1921a: 116-117, pl. 149 fig. 14-20, pl. 150 fig. 19
*Trachypsammia dendroides* sp. nov — Gerth, 1921b: 15, pl. 2 fig. 6-9
*Trachypsammia dendroides* Gerth — Gerth, 1931a: 122
*Trachypsammia dendroides* Gerth, 1921 — Ezzoubaïr, 2000: 39-41, 194-215, text-fig. III-7-2,3, V-8-1 till 7, pl. 18-20

Syntypes from the Permian near Basleo (specimen RGM.532126 [pl. 100 fig. 5 and pl. 100 fig. 6]), collected by Molengraaff during the 1911 Timor expedition (specimen THDKA.11804 (pl. 149 (5) fig. 14 in Gerth, 1921a, pl. 2 fig. 6 in Gerth, 1921b) [pl. 100 fig. 7 and pl. 100 fig. 8]), of Bitauni (thin section RGM.529411 (pl. 150(6) fig. 19 in Gerth, 1921a) [pl. 100 fig. 9]), of Nussa Tenggara Timur (sample IPB Gerth.43a-c (6 specimens, 3 thin sections) (pl. 149 (5) fig. 15-16, 19-20 in Gerth, 1921a)).

Additional material from the Permian of Fatu Bena collected during the Snellius expedition (4 specimens RGM.168329a (pl. 18 fig. 3-4, pl. 19 fig. 5-8, pl. 20 fig. 1-6 in Ezzoubaïr, 2000), RGM.168329c, RGM.532493 (pl. 18 fig. 5-6, pl. 20 fig. 7-9 in

Ezzoubaïr, 2000) [pl. 100 fig. 10], RGM.532494 (pl. 18 fig. 2 in Ezzoubaïr, 2000) [pl. 100 fig. 11]), of Nifur Muti collected during the Snellius expedition (specimen RGM.532492 (pl. 18 fig. 1 in Ezzoubaïr, 2000), 3 thin sections RGM.532455 ((?) text-fig. V-8-1 till 7, pl. 19 fig. 1-4 in Ezzoubaïr, 2000), RGM.532456 ((?) text-fig. V-8-1 till 7, pl. 19 fig. 1-4 in Ezzoubaïr, 2000), RGM.532457 ((?) text-fig. V-8-1 till 7, pl. 19 fig. 1-4 in Ezzoubaïr, 2000)).

Remarks: Gerth (1921a) studied a lot of specimens from Basleo and from Bitauni. Plate 2 fig. 6-9 in Gerth (1921b) are the same as pl. 149 (5) fig. 14-17 in Gerth (1921a). Plate 18 fig. 7-8 in Ezzoubaïr (2000) illustrates a specimen that is supposed to be stored in Amsterdam. The specimens of IPB Gerth 43a-c are from Basleo and Bitauni. Specimen RGM.532493 was numbered as RGM.168329B in Ezzoubaïr (2000).

Phylum Echinodermata Margulis & Schwartz, 1998
Class Echinoidea Leske, 1778
Genus *Breynia* Desor in Agassiz & Desor, 1847
*Breynia paucituberculata* (Gerth, 1921d)

*Spatangomorpha paucituberculata* spec. nov — Gerth, 1921d: 513-514, pl. 62 fig. 6-6a
*Breynia paucituberculata* (Gerth) — Jeannet & Martin, 1937: 278

Syntype from the Miocene Gunung Tegiring near Sapulu collected by C.F.A. Schneider (specimen RGM.4298 (pl. 62 fig. 6-6a in Gerth, 1921d)).

Remarks: Gerth (1921d) studied three fragments from Sapulu, collected by Schneider.

*Breynia sundaica* Gerth, 1921d

*Breynia sundaica* spec. nov — Gerth, 1921d: 514-515, pl. 62 fig. 5
*Breynia sundaica* Gerth — Gerth, 1927b: 183-184

Syntype from the Miocene of Djapara Border Mountains collected by R.D.M. Verbeek (specimen RGM.4289 (pl. 62 fig. 5 in Gerth, 1921d)).

Remarks: Gerth (1927b) dated Gerth (1921d) as 1922.

Genus *Brissoides* Leske, 1778
*Eupatagus (Brissoides) pulchella* (Herklots, 1854)

*Spatangus pulchellus*, nouv. esp — Herklots, 1854: 12-13, pl. 4 fig. 7-7b
*Maretia? pulchella* Herkl. spec — Martin, 1880b: 81-82
*Maretia? pulchella* (Herkl.) — Gerth, 1921d: 512-513, pl. 62 fig. 9-9b
*Eupatagus* (s. *Brissoides*) *pulchellus* (Herklots) — Jeannet & Martin, 1937: 273-274, fig. 50a-b

Holotype from the Neogene in the inner part of Cidamar collected by Junghuhn (specimen RGM. 4295 (pl. 62 fig 9 not 9a-b in Gerth, 1921d, pl. 4 fig. 7-7b in Herklots, 1854)).

Additional material from the Miocene Gunung Tegiring near Sapulu collected by C.F.A. Schneider (specimen RGM.4296 (pl. 62 fig. 9a-b in Gerth, 1921d)).

Remarks: The illustrated specimen in Jeannet & Martin (1937) is one of seven from "Sammlung Mijnwezen, Bl. IIA, 80; desgl. Coll. Bosch". One RGM number is given in that publication (RGM 4296), but it is not clear if this is the illustrated one.

Genus *Chondrocidaris* Agassiz, 1863
*Chondrocidaris sundaica* (Martin, 1885)

*Phyllacanthus sundaica* nov. spec — Martin, 1885: 287, pl. 15 fig. 293a-f, g
*Chondrocidaris sundaica* (K. Martin) — Jeannet & Martin, 1937: 221

Syntypes from the Miocene of Batavia Borehole IV: 130-134 m depth collected by Van Dijk (specimen RGM.4169), of Beberkiri river collected by Van Dijk (specimen RGM.4167), in the Grissee borehole I: 335-370 m depth collected by Van Dijk (specimen RGM. 4172), in the Ngembak borehole B collected by Van Dijk (8 specimens RGM.4166 (pl. 15 fig. 293b in Martin, 1885), RGM.4168, RGM.4171, RGM.167577 (pl. 15 fig. 293a in Martin, 1885), RGM.167578 (pl. 15 fig. 293c in Martin, 1885), RGM.167579 (pl. 15 fig. 293d in Martin, 1885), RGM.167580 (pl. 15 fig. 293e in Martin, 1885), RGM.167581 (pl. 15 fig. 293f in Martin, 1885)).

Additional material from the Miocene in the Ngembak borehole B collected by Van Dijk (specimen RGM.167582 (pl. 15 fig. 293g in Martin, 1885)).

Remarks: Spine RGM.167582 was labeled as L4166b in Martin (1937)

Genus *Cidaris* Leske, 1778
*Cidaris aculeata* Martin in Jeannet & Martin, 1937

*Cidaris aculeata* nov. spec. (R. Martin) — Jeannet & Martin, 1937: 219, fig. 3

Syntypes from the Neogene of Java collected by Jochim (specimen RGM.22036 (fig. 3 in Jeannet & Martin, 1937)), from the Miocene in the Ngembak borehole B collected by Van Dijk (specimen RGM. 167582 (pl. 15 fig. 293g in Martin, 1885)), from the Lower Miocene probably of Pitjis collected by K. Martin & Icke (sample RGM.4299).

Additional material from the Neogene of Java collected by Jochim (specimen RGM.22035).

Remarks: R. Martin in Jeannet & Martin (1937) studied Utrecht 723, 1909-1910, RGM.4299, RGM. 22036 and RGM.4166b (=RGM.167582). L22035 was considered to be too badly preserved, so it was excluded from the typeseries. Spine RGM.167582 was

labeled as L4166b in Martin (1937). According to Martin (1937) there are 4 spines in sample RGM. 4299, which are collected by Bauer in stead of K. Martin & Martin-Icke as suggested by the RGM database.

*Cidaris papillata* Martin, 1885

*Dodocidaris papillata* Ag — Martin, 1885: 287

Material from the Miocene in the Ngembak borehole B collected by Van Dijk (specimen RGM. 4173 (fig. 1 in Jeannet & Martin, 1937)).

*Cidaris* sp.

Cidaris spec — Gerth, 1927b: 181-182, pl. 218(1) fig. 1
*Cidaris* spec. spec — Jeannet & Martin, 1937: 224

Material from the Miocene of Batavia Borehole IV: 130-134 m depth collected by Van Dijk (specimen RGM.4169), of Beberkiri river collected by Van Dijk (specimen RGM.4167), in the Grissee borehole I: 335-370 m depth collected by Van Dijk (specimen RGM. 4172), in the Ngembak borehole B collected by Van Dijk (5 specimens RGM.4168, RGM.4171, RGM. 167579 (pl. 15 fig. 293d in Martin, 1885), RGM.167580 (pl. 15 fig. 293e in Martin, 1885), RGM.167581 (pl. 15 fig. 293f in Martin, 1885)), from the Pliocene-Quaternary Serani, about 3 km southwest of Baung collected by Wanner (specimen IPB Gerth.4 (pl. 218(1) fig. 1 in Gerth, 1927b)).

Remarks: Jeannet & Martin (1937) transferred several typespecimens of *Chondrocidaris sundaica* to *Cidaris* sp.

Genus *Clypeaster* De Lamarck, 1801
*Clypeaster (Stolonoclypeus) humilis* Martin, 1880b

*Clypeaster humilis* Ag — Martin, 1880b: 79
*Clypeaster (Stolonoclypeus) humilis* (Leske) A. Agassiz emend — Jeannet & Martin, 1937: 242-243, fig. 26

Material from the Miocene in the western part of Cidamar collected by Junghuhn (2 specimens RGM.4208 (pl. 2 fig. 1 in Herklots, 1854), RGM.4218 (fig. 26 in Jeannet & Martin, 1937, pl. 2 fig. 2-2b in Herklots, 1854)); West Progo Beds near Gunung Spolong collected by K. Martin & Icke (specimen RGM. 22020 (pl. 62 fig. 10 in Gerth, 1921d)).

Remarks: Martin (1880b) synonymised *Clypeaster latus* with *Clypeaster (Stolonoclypeus) humilis*.

*Clypeaster latus* Herklots, 1854 (junior synonym of *Clypeaster (Stolonoclypeus) humilis*)

*Clypeaster latus*, nouv. esp — Herklots, 1854: 6, pl. 2 fig. 1

Holotype from the Miocene in the western part of Cidamar collected by Junghuhn (specimen RGM. 4208 (pl. 2 fig. 1 in Herklots, 1854)).

Remarks: Typeseries: Catal. ms. no. 432a-b "*Clypeaster grandiflora*" from "la partie occidentale et la partie intérieure de Tjidamar". Junghuhn K and L. An annotation in pencil in the library copy of Herklots (1854) at NNM states: "=*humilis* Agas."

*Clypeaster rosaceus* Gerth, 1921d

*Clypeaster rocaseus* L — Gerth, 1921d: 504

Material from the Miocene in the western part of Cidamar collected by Junghuhn (specimen RGM. 4208 (pl. 2 fig. 1 in Herklots, 1854)).

*Clypeaster testudinarius* (Gray, 1851)

*Echinanthus testudinarius* Gray — Martin, 1880b: 79

Material from the Miocene in the western part of Cidamar collected by Junghuhn (specimen RGM. 4218 (fig. 26 in Jeannet & Martin, 1937, pl. 2 fig. 2-2b in Herklots, 1854)).

Remarks: Martin (1880b) prohibitively synonymised *Clypeaster tumescens* with *Clypeaster testudinarius*.

*Clypeaster tumescens* Herklots, 1854 (junior synonym of *Clypeaster testudinarius*)

*Clypeaster tumescens*, nouv. esp — Herklots, 1854: 7, pl. 2 fig. 2-2b

Syntype from the Miocene in the western part of Cidamar collected by Junghuhn (specimen RGM. 4218 (fig. 26 in Jeannet & Martin, 1937, pl. 2 fig. 2-2b in Herklots, 1854)).

Remarks: Herklots (1854) studied "Catal. ms. no. 438 *Amblypygus* sp." from "la partie occidentale et la partie intérieure de Tjidamar". A pencilled annotation in the library specimen of this publication in Naturalis states:"Echinanthus auxxxxxxxx" (not readable)

*Clypeaster* sp.

*Clypeaster* spec — Gerth, 1921d: 504-505, pl. 62 fig. 10

Material from the Miocene: West Progo Beds near Gunung Spolong collected by K. Martin & Icke (specimen RGM.22020 (pl. 62 fig. 10 in Gerth, 1921d)).

Genus *Coelopleuris* Agassiz, 1840
*Coelopleuris schneideri* Gerth, 1921d

*Coelopleuris Schneideri* spec. nov — Gerth, 1921d: 500

Syntypes from the Miocene Gunung Tegiring near Sapulu collected by C.F.A. Schneider (2 specimens RGM.4174-4175).

Genus *Desmechinus* Clark, 1916
*Desmechinus erbi* (Jeannet in Lambert & Jeannet, 1935)

*Javanechinus erbi* Jeannet — Jeannet & Martin, 1937: 236-238, fig. 12-15

Material from the Neogene of Java collected by Jochim (sample RGM.22137 (5 specimens), 2 specimens RGM.167598 (fig. 15 in Jeannet & Martin, 1937), RGM.167599 (fig. 14 in Jeannet & Martin, 1937)), from the Upper Miocene Gunung Tegiring near Sapulu collected by C.F.A. Schneider (2 specimens RGM.167596 (fig. 12 in Jeannet & Martin, 1937), RGM.167597 (possibly fig. 13 in Jeannet & Martin, 1937)).

Remarks: According to Jeannet & Martin (1937) lot "L22137" contained 7 specimens. Two of which are separated and numbered RGM 167598-'99. Specimens RGM.167596-'97 are two of the five specimens in sample L4188a as mentioned in Jeannet & Martin (1937).

Genus *Echinodiscus* Leske, 1778
*Echinodiscus lesueuri* Jeannet & Martin, 1937

*Echinodiscus lesueuri* (Valenciennes) — Jeannet & Martin, 1937: 254-259, fig. 37, 38a-b

Material locality "Junghuhn C" collected by Junghuhn (specimen RGM.4224 (pl. 1 fig. 7-7b in Herklots, 1854)), from the Pleistocene: Pucangan Formation north of Modjokerto collected by Cosijn (specimen RGM.167603 (fig. 38 in Jeannet & Martin, 1937)).

Remarks: The specimen illustrated in fig. 37 in Jeannet & Martin (1937) should be in Berlin.

Genus *Echinolampas* Gray, 1825
*Echinolampas depressus* Gray, 1855

*Echinolampas (Miolampas) depressus* Gray — Jeannet & Martin, 1937: 270-273, fig. 49a-d

Material from the Neogene in the inner part of Cidamar collected by Junghuhn (specimen RGM. 4233 (pl. 3 fig. 4-4b in Herklots, 1854)).

Remarks: Depicted is one specimen from coll. Blumenthal 32c in Basel.

*Echinolampas minutus* (Herklots, 1854)

*Nucleolites minutus*, nouv. esp — Herklots, 1854: 10, pl. 5 fig. 8-8b

Syntype from the Neogene in the inner part of Cidamar collected by Junghuhn (specimen RGM. 4247 (pl. 62 fig. 8-8a in Gerth, 1921d, pl. 5 fig. 8-8b in Herklots, 1854)).

Remarks: A pencilled annotation in the library specimen of Herklots (1854) in Naturalis states: " ?=*Echinolampas oviformis* Ag. s. n."

*Echinolampas oviformis* Martin, 1880b

*Echinolampas oviformis* Ag — Martin, 1880b: 79-80
*Echinolampas oviformis* Agass — Gerth, 1921d: 506

Material from the Neogene in the inner part of Cidamar collected by Junghuhn (specimen RGM. 4233 (pl. 3 fig. 4-4b in Herklots, 1854)).

Remarks: *E. subangulata* Herklots, 1854: 10, pl. 3 fig. 4 is prohibitively synonymised with this species, although the state of preservation does not allow of a definite judgement. *Nucleolites minutus* Herklots, 1854: 10, pl. 5 fig. 8 could be a younger stage of this species, but is also not well enough preserved. *N. minutes* is transferred to *Echinolampas*.

*Echinolampas subangulata* Herklots, 1854

*Echinolampas subangulata*, nouv. esp — Herklots, 1854: 10-11, pl. 3 fig. 4-4b

Holotype from the Neogene in the inner part of Cidamar collected by Junghuhn (specimen RGM. 4233 (pl. 3 fig. 4-4b in Herklots, 1854)).

Remarks: Typeseries: Catal. ms. no. 448b, from "la partie intérieure de Tjidamar", Junghuhn locality L. A pencilled anotation in the library specimen of this publication in Naturalis stated: "=*E. oviformis* Ag."

Genus *Eupatagus* Agassiz in Agassiz & Desor, 1847
*Eupatagus affinis* Herklots, 18??

Eupatagus (s. Brissoides) affinis (Herklots) — Jeannet & Martin, 1937: 274-275, fig. 51

Material from the Neogene in the inner part of Cidamar collected by Junghuhn (specimen RGM. 4292 (pl. 2 fig. 5-5a in Herklots, 1854)), from the Miocene: West Progo Beds near Gunung Spolong collected by K. Martin & Icke (specimen RGM.4286 (pl. 62 fig. 1-1a in Gerth, 1921d)).

Remarks: Jeannet & Martin (1937) figured one specimen from coll. Schröter (Zürich).

*Eupatagus martini* Gerth, 1921d

*Eupatagus Martini* spec. nov — Gerth, 1921d: 511-512, pl. 62 fig. 1-1a

Holotype from the Miocene: West Progo Beds near Gunung Spolong collected by K. Martin & Icke (specimen RGM.4286 (pl. 62 fig. 1-1a in Gerth, 1921d)).

*Eupatagus* sp.

*Eupatagus* (s. *Brissoides*) spec — Jeannet & Martin, 1937: 275, fig. 52

Material in the Ngembak borehole B collected by Van Dijk (specimen RGM.4302 (fig. 52 in Jeannet & Martin, 1937)).

Genus *Hemiaster* Agassiz in Agassiz & Desor, 1847
*Hemiaster tuberculatus* Gerth, 1921d

*Hemiaster (Leucaster) tuberculatus* spec. nov — Gerth, 1921d: 508, pl. 62 fig. 7-7a

Syntypes from the Miocene in the western part of Cidamar collected by Junghuhn (2 specimens RGM.4283 (pl. 62 fig. 7-7a in Gerth, 1921d), RGM. 167608).

Remarks: Typeseries: TGerth (1921d) studied three fragments.

*?Hemiaster* sp.

?*Hemiaster* spec — Gerth, 1921d: 508

Material from the Miocene in the western part of Cidamar collected by Junghuhn (2 specimens RGM.4280 (pl. 5 fig. 5 in Herklots, 1854), RGM.4284 (fig. 60 in Jeannet & Martin, 1937)).

Genus *Hemifaorina* Jeannet & Martin, 1937
*Hemifaorina tuber* (Herklots, 1854)

*Hemiaster tuber*, nouv. esp — Herklots, 1854: 15-16, pl. 5 fig. 5
*Hemifaorina* nov. gen. *tuber* (Herklots) — Jeannet & Martin, 1937: 289, fig. 60

Syntypes from the Miocene in the western part of Cidamar collected by Junghuhn (2 specimens RGM.4280 (pl. 5 fig. 5 in Herklots, 1854), RGM.4284 (fig. 60 in Jeannet & Martin, 1937)).

Genus *Jacksonaster* Lambert & Thiéry, 1914
*Jacksonaster decagonus* De Blainville, 1834

*Jacksonaster decagonus* (de Blainville) — Jeannet & Martin, 1937: 260-262, fig. 39a-b

Material from the Upper Miocene-Pliocene locality "Junghuhn O" collected by Junghuhn (specimen RGM.4223 (pl. 1 fig. 6-6a in Herklots, 1854)).

Remarks: Jeannet & Martin (1937) figured one of the specimens in RGM 22102-22103.

*Jacksonaster herklotzi* Jeannet in Jeannet & Martin, 1937

*Jacksonaster herklotzi* nov. spec. (Jeannet) — Jeannet & Martin, 1937: 262-263, fig. 40a-c, 41-42

Syntypes from the Neogene near Rembang collected by Kampmeinert (2 specimens RGM.22006 (fig. 42 in Jeannet & Martin, 1937), RGM.167606), in the inner part of Cidamar collected by Junghuhn (specimen RGM.4228 (pl. 2 fig. 3-3c in Herklots, 1854)).

Remarks: Jeannet (1937) studied RGM 4228 (*Peronella orbicularis* in Herklots (1854)), RGM 4206 (one of the *Echinodiscus lesueuri* in Gerth (1921d)), seven specimens from coll. Blumenthal no. 32g in Basel (fig. 40a-c, 41), RGM 22006 and RGM 22012.

Genus *Laganum* Link, 1807
*Laganum boschi* Martin in Jeannet & Martin, 1937

*Laganum boschi* nov. spec. (R. Martin) — Jeannet & Martin, 1937: 253-254, fig. 35, 36a-b

Material from the Neogene of Java collected by Jochim (specimen RGM.22029).

Remarks: R. Martin in Jeannet & Martin (1937) studied one specimen in the "Berliner Sammlung", which he figured in his fig. 35; 18 specimens from "jungmiozänen Kalksteingebiet von Tji Sande in Cheribon (Sammlung Mijnwezen)", one of which he figured in his fig. 36a-b and one specimen from Sammlung Jochim (RGM 22029) "gehört vielleicht auch zu dieser Art".

*Laganum multiforme* Martin, 1880b

*Laganum multiforme* nov. spec — Martin, 1880b: 76-78; Martin, 1880c: 3, fig. 2, 2a-b
*Laganum multiforme* K. Martin — Jeannet & Martin, 1937: 250-251, fig. 31-32

Syntypes from the Mesozoic-Cenozoic of Podjok (specimen RGM.19808), from the Miocene of Podjok collected by Junghuhn (2 specimens RGM.4217 (fig. 31 in Jeannet & Martin, 1937, fig. 2 in Martin, 1880c), RGM.167601).

Additional material from the Miocene of Gunung Kelier collected during the Expedition 'Batavia', 1881 (specimen RGM.4220 (fig. 32 in Jeannet & Martin, 1937)), of Podjok collected by Junghuhn (specimen RGM.4321).

*Laganum tenuatum* Herklots, 1854

*Laganum tenuatum*, nouv. esp — Herklots, 1854: 9, pl. 1 fig. 7-7b

Holotype locality "Junghuhn C" collected by Junghuhn (specimen RGM.4224 (pl. 1 fig. 7-7b in Herklots, 1854)).

Remarks: A pencilled annotation in the library specimen of Herklots (1854) in Naturalis states: "=*Peronella decagonalis* Lesson"

Genus *Maretia* Gray, 1855
*Maretia planulata* De Lamarck, 1816
*Spatangus affinis* Herklots, 1854 (junior synonym of *Maretia planulata*)

*Spatangus affinis*, nouv. esp — Herklots, 1854: 12, pl. 2 fig. 5-5a

Syntype from the Neogene in the inner part of Cidamar collected by Junghuhn (specimen RGM. 4292 (pl. 2 fig. 5-5a in Herklots, 1854)).

Remarks: According to Jeannet & Martin (1937) there are two specimens on which Herklots based *Spatangus affinis*.

Genus *Opechinus* Desor in Desor, 1855-1858
*Opechinus cheribonensis* Jeannet in Lambert & Jeannet, 1935

*Opechinus* cf. *cheribonensis* Jeannet — Jeannet & Martin, 1937: 228, fig. 6 (on p. 227)

Material from the Upper Miocene Gunung Tegiring near Sapulu collected by C.F.A. Schneider (specimen RGM.167593 (fig. 6 in Jeannet & Martin, 1937)).

Remarks: Some confusion about fig. 6 in Jeannet & Martin (1937) is possible. Since it is placed on p. 227 together with *Opechinus collignoni* and neither name in the caption is mentioned nor a reference in text to this figure is given, a first impression that fig. 6 belongs to *Opechinus collignoni* is easily made. However, the *Opechinus collignoni* specimen is said to be broken and the *Opechinus cheribonensis* specimen is said to be about 29 mm in diameter. Fig. 6 is therefore associated with *Opechinus cheribonensis*. Jeannet & Martin (1937) labelled RGM.167593 as L4190b.

*Opechinus collignoni* Jeannet & Martin in Lambert & Jeannet, 1935

*Opechinus* cf. *collignoni* Jeannet — Jeannet & Martin, 1937: 227

Material from the Upper Miocene Gunung Tegiring near Sapulu collected by C.F.A. Schneider (specimen RGM.167592).

Remarks: Jeannet & Martin (1937) labelled RGM.167592 as L4190a.

*Opechinus madurae* Jeannet in Jeannet & Martin, 1937

*Opechinus madurae* nov. spec. (Jeannet) — Jeannet & Martin, 1937: 228-230, fig. 7-8

Syntypes from the Upper Miocene Gunung Tegiring near Sapulu collected by C.F.A. Schneider (3 specimens RGM.4190 (fig. 7 in Jeannet & Martin, 1937), RGM.167594 (fig. 8 in Jeannet & Martin, 1937), RGM.167595).

Remarks: The word "Typus" is in Jeannet (1937) not used as typespecimen, but as the typical form of the species, to which two of the syntypes belong. Therefor all three specimens are considered to be syntypes. Lot RGM.4190 is associated with 3 specimens according to Jeannet (1937) of which two are depicted in fig. 7 and 8. Jeannet & Martin (1937) also mention L4190a and L4190b, which are different samples from RGM 4190. The specimen depicted in fig. 7 retained this registrationcode, while all others got new numbers (RGM 167592-'95).

*Pseudopechinus* Lambert & Thiéry, 1910 (junior synonym of *Opechinus*)
*Pseudopechinus percultus* Desor, 1855-1858

*Opechinus (Pseudopechinus) percultus* Desor — Jeannet & Martin, 1937: 230-231

Material from the Miocene of Podjok collected by Junghuhn (specimen RGM.4193).

Remarks: Jeannet & Martin (1937) synonymised *Pleurechinus javanus* with *Pseudopechinus percultus*.

*Pseudopechinus percultus oligoporus* Martin in Jeannet & Martin, 1937

*Opechinus (Pseudopechinus) percultus* Desor, var. *oligoporus* nov. var. (R. Martin) — Jeannet & Martin, 1937: 232

Syntype from the Upper Miocene Gunung Tegiring near Sapulu collected by C.F.A. Schneider (sample RGM.4195).

Remarks: According to Jeannet & Martin (1937) sample RGM.4195 should contain 7 specimens.

Genus *Pericosmus* Agassiz in Agassiz & Desor, 1847
*Pericosmus elatus* Herklots, 1854

*Pericosmus elatus*, nouv. esp — Herklots, 1854: 20, pl. 5 fig. 2-2a

Holotype from the Miocene in the western part of Cidamar collected by Junghuhn (specimen RGM. 4278 (pl. 5 fig. 2-2a in Herklots, 1854)).

*Pericosmus granulosus* Herklots, 1854
*Pericosmus asperulatus* Herklots, 1854 (junior synonym of *Pericosmus granulosus*)

*Pericosmus asperulatus*, nouv. esp — Herklots, 1854: 17-18, pl. 5 fig. 1-1b
*Pericosmus asperulatus* Herkl — Martin, 1880b: 80-81

Holotype from the Miocene in the western part of Cidamar collected by Junghuhn (specimen RGM. 4263 (pl. 5 fig. 1-1b in Herklots, 1854)).

Remarks: Typeseries: catal. ms. no. 441, from Junghuhn locality K.

*Pericosmus rotundatus* Herklots, 1854 (junior synonym of *Pericosmus granulosus*)

*Pericosmus rotundatus*, nouv. esp — Herklots, 1854: 17, pl. 4 fig. 1

Holotype from the Miocene in the western part of Cidamar collected by Junghuhn (specimen RGM. 4266 (pl. 4 fig. 1 in Herklots, 1854)).

Remarks: Typeseries: catal. ms. no. 440, from Junghuhn locality K.

*Pericosmus parvus* Herklots, 1854

*Pericosmus parvus*, nouv. esp — Herklots, 1854: 19, pl. 5 fig. 3
*Pericosmus parvus* Herklots — Jeannet & Martin, 1937: 284-285, fig. 58

Syntype from the Miocene in the western part of Cidamar collected by Junghuhn (specimen RGM. 4279 (pl. 5 fig. 3 in Herklots, 1854)).

Additional material from the Miocene in the western part of Cidamar collected by Junghuhn (specimen RGM.4278 (pl. 5 fig. 2-2a in Herklots, 1854)), from the Lower Pleistocene: Mollusc Unit I 50 m north of "W of Mount Bereng" collected by Cosijn (specimen RGM.22138 (58 in Jeannet & Martin, 1937)).

Remarks: Typeseries: catal. ms. no. 441, from Junghuhn locality K. Depicted is one specimen from "Sammlungen Cosijn, functorte 1, 59, 60 (RGM 22055,'56,'138), und Mijnwezen (Bl. 110A, 98,100)"

*Pericosmus timorensis* Gerth, 1927b

*Pericosmus timorensis* Lamb — Gerth, 1927b: 183, pl. 218(1) fig. 2-2a

Material from the Permian of Oikabitti collected by Wanner (specimen IPB Gerth.6 (pl. 218 (1) fig. 2 in Gerth, 1927b)).

Genus *Peronella* Gray, 1855
*Peronella decagonalis* Agassiz in Agassiz, 1872-1874

*Peronella decagonalis* Ag — Martin, 1880b: 78

Material locality "Junghuhn C" collected by Junghuhn (specimen RGM.4224 (pl. 1 fig. 7-7b in Herklots, 1854)), from the Upper Miocene-Pliocene locality "Junghuhn O" collected by Junghuhn (specimen RGM.4223 (pl. 1 fig. 6-6a in Herklots, 1854)).

Remarks: Martin (1880b) synonymised *Scutella decagona*, *Echinodiscus angulosus* and *Laganum rotundum* with *Peronella decagonalis*. He regarded *Laganum tenuatum* as probably distinct and too badly preserved to allow of a definite judgement.

*Scutella decagona* Herklots, 1854 (junior synonym of *Peronella decagonalis*)

*Scutella decagona*, nouv. esp — Herklots, 1854: 9, pl. 1 fig. 6-6a

Syntypes from the Lower Miocene Gunung Gamping near Tegálsari collected by K. Martin & Icke (specimen RGM.167605), from the Upper Miocene-Pliocene locality "Junghuhn O" collected by Junghuhn (specimen RGM.4223 (pl. 1 fig. 6-6a in Herklots, 1854)).

*Peronella orbicularis* (Herklots, 1854)

*Laganum orbiculare*, Agassiz — Herklots, 1854: 8, pl. 2 fig. 3-3c
*Peronella orbicularis* Ag — Martin, 1880b: 78-79

Material from the Neogene in the inner part of Cidamar collected by Junghuhn (specimen RGM. 4228 (pl. 2 fig. 3-3c in Herklots, 1854)).

Remarks: A handwritten annotation in the library copy of Herklots (1854) at NNM stated: "=*Peronella orbicularis* Leske".

Genus *Phyllacanthus* Brandt, 1835
*Phyllacanthus dubius* Brandt, 1835

*Phyllacanthus dubius* Brandt — Jeannet & Martin, 1937: 223, fig. 5

Material from the Upper Miocene Gunung Tegiring near Sapulu collected by C.F.A. Schneider (specimen RGM.22043 (fig. 5 in Jeannet & Martin, 1937)).

Remarks: Lot RGM.22043 used to contain two spines. The spine not depicted in Jeannet & Martin (1937) is renumbered as RGM 167590.

*Phyllacanthus dubius sundaica* Martin in Jeannet & Martin, 1937

*Phyllacanthus dubius* Brandt, var. *sundaica* nov. var. (R. Martin) — Jeannet & Martin, 1937: 223-224

Syntype from the Lower Miocene Gunung Gamping near Tegálsari collected by K. Martin & Icke (sample RGM.4332).

Remarks: Sample RGM.4332 should contain 18 fragments of spines according to Jeannet & Martin (1937).

*Phyllacanthus imperialis*
*Phyllacanthus imperialis javana* Martin, 1885

*Phyllacanthus javana* nov. spec — Martin, 1885: 289-290, pl. 15 fig. 294a-e
*Phyllacanthus imperialis* (Lamarck), var. *javana* K. Martin — Jeannet & Martin, 1937: 222, fig. 4

Syntypes in the Ngembak borehole B collected by Van Dijk (6 specimens RGM.4164 (pl. 15 fig. 294b in Martin, 1885), RGM.4165, RGM.167584 (pl. 15 fig. 294a in Martin, 1885), RGM.167585 (pl. 15 fig. 294c in Martin, 1885), RGM.167586 (pl. 15 fig. 294d in Martin, 1885), RGM.167587 (pl. 15 fig. 294e in Martin, 1885)).

Additional material from the Lower Miocene probably of Pitjis collected by K. Martin & Icke (specimen RGM.167588), from the Pliocene: "Korallenkalk" of Hügel near Sekurau collected by Schmidt, leg. 1902 (specimen RGM.22017 (fig. 4 in Jeannet & Martin, 1937)).

Remarks: Martin (1885) studied numerous spines from Ngembak and one specimen probably from Ambon. Jeannet & Martin (1937) ranked *javana* down from species to variety. Spine RGM.167588 was previously coded as RGM 4299a. According to Jeannet & Martin (1937) it is part of coll. Bauer in stead of coll. Martin-Icke. as sugggested in the RGM database. Registrationcode RGM.22017 was formerly attached to at least two spines. The specimen that is not figured in Martin (1937) is renumbered into specimen RGM 167589, leaving the illustrated specimen under this registrationcode.

Genus *Schizaster* Agassiz, 1836
*Schizaster japonicus* Agassiz, 1836

*Schizaster* cf. *japonicus* Agass — Gerth, 1927b: 183, pl. 218(1) fig. 3-3a

Material from the Pliocene-Quaternary of Oikabitti (specimen IPB Gerth.7 (pl. 218 (1) fig. 3-3a in Gerth, 1927b)).

*Schizaster progoensis* Gerth, 1921d

*Schizaster progoënsis* spec. nov — Gerth, 1921d: 510, pl. 62 fig. 2, 2a, 2b
*Schizaster progoensis* Gerth — Jeannet & Martin, 1937: 291-292

Syntypes from the Miocene of Gunung Kelier (specimen RGM.4256), of Podjok (2 specimens RGM. 4251, RGM.4253 (pl. 62 fig. 2 in Gerth, 1921d)); West Progo Beds near Gunung Spolong (specimen RGM. 4250), of Kali Kemejing (specimen RGM.4252), collected by K. Martin & Icke (specimen RGM.4249 (pl. 62 fig. 2a in Gerth, 1921d)).

Remarks: Coll. Verbeek Batavia 1881. Collected by Junghuhn, F.-Java. Collected by Junghuhn, F.-Java. Collected by K. Martin & Martin-Icke. Collected by K. Martin & Martin-Icke.

*Schizaster subrhomboidalis* Herklots, 1854

*Schizaster subrhomboidalis*, nouv. esp — Herklots, 1854: 20-21, pl. 5 fig. 4-4b
*Schizaster subrhomboidalis* Herkl — Martin, 1880b: 80; Gerth, 1921d: 509, pl. 62 fig. 3
*Schizaster* spec. aff. *subrhomboidalis* Herklots — Jeannet & Martin, 1937: 290-291, fig. 61

Material from the Miocene: West Progo Beds near Gunung Spolong (specimen RGM.4255 (pl. 62 fig. 3 in Gerth, 1921d)).

Remarks: Typeseries: catal. ms. no. 452a, from Junghuhn locality K. Depicted speciemn is from the lower miocene of Tjipanas, "Kromonggebirge, Cheribon, Java" (Amsterdam M467). It is compared with RGM 4254 and RGM 4255 (are these syntypes of Herklots?), and differences were found. Collected by K. Martin & Martin-Icke.

*Schizaster* sp.

*Schizaster* spec. 2 — Jeannet & Martin, 1937: 295, fig. 65
*Schizaster* spec. 3 — Jeannet & Martin, 1937: 295-296, fig. 66
*Schizaster*? *Opissaster*? spec — Jeannet & Martin, 1937: 297, fig. 67

Material from the Pliocene of Gle Miraphon (specimen RGM.22024 (fig. 65 in Jeannet & Martin, 1937)).

Remarks: The specimen figured in fig. 66 in Jeannet & Martin (1937) is from "Mijnwezen, Bl. 30, No. 1231". The specimen illustrated in fig. 67 in Jeannet & Martin (1937) is from "Samml. Hirschi, Zürich".

Genus *Sismondia* Desor in Desor, 1855-1858
*Sismondia javana* Gerth, 1921d

*Sismondia javana* spec. nov — Gerth, 1921d: 502-503, pl. 62 fig. 4, 4a
*Sismondia javana* Gerth — Jeannet & Martin, 1937: 241-242, fig. 24-25

Syntypes from the Miocene: West Progo Beds near Gunung Spolong collected by K. Martin & Icke (2 specimens RGM.4202 (pl. 62 fig. 4 or 4a in Gerth, 1921d), RGM.167600).

Remarks: While Gerth (1921d) mentioned three specimens, Jeannet & Martin (1937) found only 2 in sample RGM.4202. One of these two specimens has since been renumbered as RGM 167600.

Genus *Studeria* Duncan, 1891
*Tristomanthus* Bittner, 1892 (junior synonym of *Studeria*)
*Pliolampas (Tristomanthus) elevatus* Martin in Jeannet & Martin, 1937

*Pliolampas (Tristomanthus) elevatus* nov. spec. (R. Martin) — Jeannet & Martin, 1937: 268-269, fig. 48a-c

Holotype from the Neogene of Java collected by Jochim (specimen RGM.22044 (fig. 48a-c in Jeannet & Martin, 1937)).

*Pliolampas (Tristomanthus) minutus* (Herklots, 1854)

*Studeria (Catopygus) minuta* (Herkl.) — Gerth, 1921d: 506, pl. 62 fig. 8-8a
*Pliolampas (Tristomanthus) minutus* (Herklots) — Jeannet & Martin, 1937: 266-267

Material from the Neogene in the inner part of Cidamar collected by Junghuhn (specimen RGM. 4247 (pl. 62 fig. 8-8a in Gerth, 1921d, pl. 5 fig. 8-8b in Herklots, 1854)), from the Miocene in the western part of Cidamar collected by Junghuhn (specimen RGM.4248).

Genus *Stylocidaris* Mortensen, 1909
*Stylocidaris reini* Döderlein, 1911

*Stylocidaris reini* (Döderlein) — Jeannet & Martin, 1937: 218, fig. 1

Material from the Miocene in the Ngembak borehole B collected by Van Dijk (specimen RGM. 4173 (fig. 1 in Jeannet & Martin, 1937)).

Genus *Temnotetra* Agassiz, 1863
*Pleurechinus* Agassiz, 1872-1874 (junior synonym of *Temnotetra*)
*Pleurechinus bothryoides* Agassiz, 1872-1874

*Pleurechinus bothryoides* A. Agass — Gerth, 1921d: 501
*Pleurechinus* cf. *bothryoides* A. Agass — Gerth, 1927b: 182, pl. 218(1) fig. 4

Material from the Pliocene-Quaternary near Baung collected by Wanner (specimen IPB Gerth.5 (pl. 218(1) fig. 4 in Gerth, 1927b)).

Remarks: Studied material: one specimen from coll. Verbeek from Gunung Tegiring II, Madura. small specimen from surroundings of Baung, coll. Wanner.

*Pleurechinus javanus* Martin, 1880b

*Pleurechinus javanus* nov. spec — Martin, 1880b: 75-76; Martin, 1880c: 2-3, fig. 1, 1a-b
*Pleurechinus javanus* Martin — Gerth, 1921d: 501

Syntype from the Miocene of Podjok collected by Junghuhn (specimen RGM.4193).

Additional material from the Upper Miocene Gunung Tegiring near Sapulu collected by C.F.A. Schneider (sample RGM.4195).

Remarks: Martin (1880b) studied eight specimens from Java. According to Jeannet & Martin (1937) sample RGM.4195 should contain 7 specimens.

Phylum Mollusca Linnaeus, 1758
Class Bivalvia Linnaeus, 1758
Genus *Radiolites* De Lamarck, 1801
*Radiolites* sp.

*Radiolites* Lam — Martin, 1888: 22-23, pl. 2 fig. 14-21

Material from the Upper Cretaceous: Rudistenkalk of Savonet collected by K. Martin (thin section RGM.525530 (pl. 2 fig. 16 in Martin, 1888) [pl. 100 fig. 12]); Seroe Teintje Limestone of Savonet collected by K. Martin (thin section RGM.17916 (pl. 2 fig. 19 in Martin, 1888) [pl. 100 fig. 13]).

Class Cephalopoda Cuvier, 1797
Subclass Ammonoidea Martin, 1888

Ammonites spec. indet — Martin, 1888: 60, pl. 1 fig. 13

Material from the Cretaceous of Seroe Colorado collected by K. Martin (specimen RGM.17951 (pl. 1 fig. 13 in Martin, 1888)).

Genus *Blanfordiceras* Cossmann, 1907
*Blanfordiceras novaguinense* Gerth, 1965

*Baculatoceras* sp — Stanton & Vaughan, 1920: 55, encl. 17 fig. 23
*Blanfordiceras novaguinense* n. sp — Gerth, 1965: 213-214, 217, pl. 18 fig. 2a-b
*Blanfordiceras wallichi novaguinense* Gerth (1917) — Westermann & Getty, 1970: 238, 240, 291, text-fig. 3

Material from the Dogger-Berriasian: Kembelangen Formation of Headwaters of Wati River collected by Schuurmans Stekhoven (specimen RGM. 160158 (text-fig. 3 in Westermann & Getty, 1970, fig. 23 in Stanton & Vaughan, 1920)).

Remarks: The specimen in Donovan (1962) is Upper Bajocian of age. Gerth (1965) studied two specimens from the Berriasian of Aramarai 1542 b,c. Westermann & Getty (1970) illustrated a specimen from South Geelvink Bay (Shelll Research Lab., Utrecht, s.s. 215a).

Genus *Bullatimorphites* Buckman, 1921
Subgenus *Bullatimorphites (Treptoceras)*
*Bullatimorphites (Treptoceras) uhligi* Popovici-Hatzeg, 1905

*Sphaeroceras* cf. *bullatum* d'Orb — Gerth, 1927c: 226
*Bullatimorphites (Treptoceras)* sp. aff. *B. uhligi* (Popovici-Hatzeg) 1905 ♂ — Westermann & Getty, 1970: 259-260, text-fig. 10

Material from the Bathonian of Wairori collected by Palmer van den Broek, donated in 1908 (specimen RGM.12118 (text-fig. 10 in Westermann & Getty, 1970)).

Genus *Normannites* Munier-Chalmas, 1892
*Itinsaites* McLearn, 1927 (junior synonym of *Normannites*)
*Stephanoceras* sp.

*Stephanoceras (Stepmmatoceras?) etheridgei* (Gerth)?, ♂ [*Itinsaites*] — Westermann & Getty, 1970: 237, 290

Material from the Bajocian of Wairori collected by Palmer van den Broek, donated in 1908 (specimen RGM.12173 (pl. 36 fig. 2 in Gerth, 1927c)).

Genus *Stephanoceras* Waagen, 1869
*Stephanoceras etheridgei* Gerth, 1927c

*Stephanoceras Etheridgei* spec. nov — Gerth, 1927c: 226-227, pl. 36 fig. 1
*Stephanoceras (Stemmatoceras) etheridgei* (Gerth) 1927, ♀ — Westermann & Getty, 1970: 249-252, text-fig. 8

Holotype from the Bajocian of Wairori collected by Palmer van den Broek, donated in 1908 (specimen RGM.12172 (text-fig. 8 in Westermann & Getty, 1970, pl. 36 fig. 1 in Gerth, 1927c)).

Remarks: The caption of text-fig. 8 in Westermann & Getty (1970) erroneously reads: "Text-fig. 2".

*Stephanoceras* sp.

*Stephanoceras* spec — Gerth, 1927c: 227, pl. 36 fig. 2

Material from the Bajocian of Wairori collected by Palmer van den Broek, donated in 1908 (specimen RGM.12173 (pl. 36 fig. 2 in Gerth, 1927c)).

Phylum Porifera Grant, 1836
Genus *Aulacospongia* Gerth, 1927d
*Aulacospongia bulbosa* Gerth, 1927d

*Aulacospongia bulbosa* spec. nov — Gerth, 1927d: 119-120, pl. 6 fig. 3-3a; Gerth, 1929: 24-25, 29, pl. 223(5) fig. 7
*Aulacopspongia bulbosa* Gerth — Gerth, 1931b: 115

Holotype from the Permian near Basleo collected by Jonker (specimen THDKA.11731 (pl. 223(5) fig. 7 in Gerth, 1929, pl. 6 fig. 3-3a in Gerth, 1927d) [pl. 100 fig. 14 and pl. 100 fig. 15]).

*Aulacospongia hanieli* Gerth, 1927d

*Aulacospongia Hanieli* spec. nov — Gerth, 1927d: 118-119, pl. 1 fig. 6, pl. 2 fig. 4, pl. 8 fig. 2-2a; Gerth, 1929: 23-24, 29, pl. 223(5) fig. 6-7a, pl. 224(6) fig. 9-10
*Aulacospongia hanieli* Gerth — Gerth, 1931b: 115

Holotype of Nussa Tenggara Timur (specimen IPB Gerth.14a (1 thin section, 5 fragments) (pl. 223(5) fig. 6-7a, pl. 224(6) fig. 9-10 in Gerth, 1929, pl. 1 fig. 6, pl. 2 fig. 4, pl. 8 fig. 2-2a in Gerth, 1927d)).

Remarks: Typeseries: one specimen, coll. Wanner, Besleo.Stored at IPB. Plate 223 (5) fig. 6-7a and pl. 224 (6) fig. 9-10 in Gerth (1929) are respectively the same as pl. 8 fig. 2, 2a, pl. 6 fig. 3a, pl. 1 fig. 6 and pl. 2 fig. 4 in Gerth (1927d).

*Aulacospongia? parvula* Gerth, 1927d

*Aulacospongia? parvula* spec. nov — Gerth, 1927d: 120-121, pl. 8 fig. 3
*Aulacospongia ? parvula* spec. nov — Gerth, 1929: 25-26, 29, pl. 220 (2) fig. 9
*Aulacospongia?* cf. *parvula* — Gerth, 1929: 29
*Aulacospongia* (?) *parvula* Gerth — Gerth, 1931b: 115

Syntype from the Permian of Nussa Tenggara Timur (specimen IPB Gerth.14b (1 specimen, 2 thin sections) (pl. 220 (2) fig. 9 in Gerth, 1929, pl. 8 fig. 3 in Gerth, 1927d)).

Remarks: Typeseries: one specimen from Besleo? and one from Hoenemata near village Hoankiskoma near Baoen. Coll. Wanner. Stored at IPB. Plate 220 (2) fig. 9 in Gerth (1929) is the same as pl. 8 fig. 3 in Gerth (1927d).

*Aulacospongia* sp.

*Aulacospongia* spec. indet — Gerth, 1927d: 120, pl. 6 fig. 4-4a; Gerth, 1929: 25, pl. 220(2) fig. 8, pl. 223(5) fig. 8

Material from the Permian between Niki Niki and the Noil Fatu collected by Molengraaff during the 1911 Timor expedition (specimen THDKA.11733 (pl. 220(2) fig. 8, pl. 223(5) fig. 8 in Gerth, 1929, pl. 6 fig. 4-4a in Gerth, 1927d) [pl. 101 fig. 1 and pl. 101 fig. 2]).

Genus *Caryospongia* Rauff, 1894
*Caryospongia? dyadica* Gerth, 1927d

*Caryospongia*? *dyadica* spec. nov — Gerth, 1927d: 114-115, pl. 8 fig. 4-4a
*Caryospongia? dyadica* spec. nov — Gerth, 1929: 20-21, 29, pl. 222(4) fig. 7, pl. 223(5) fig. 1
*Caryospongia* (?) *dyadica* Gerth — Gerth, 1931b: 116

Holotype from the Permian near Basleo collected by Jonker (specimen THDKA.11728 (pl. 222(4)

fig. 7, pl. 223(5) fig. 1 in Gerth, 1929, pl. 8 fig. 4-4a in Gerth, 1927d) [pl. 101 fig. 3 and pl. 101 fig. 4]).

Genus *Mastophyma* Gerth, 1927d
*Mastophyma globosa* Gerth, 1927d

*Mastophyma globosa* spec. nov — Gerth, 1927d: 111, pl. 5 fig. 4, pl. 7 fig. 3-3a
*Mastophylla globosa* spec. nov — Gerth, 1929: 17, 30, pl. 221(3) fig. 6, pl. 222(4) fig. 1-1a
*Mastophyma globosa* Gerth — Gerth, 1931b: 115

Syntypes from the Permian of Nefotassi collected by Jonker (specimen THDKA.11721 (pl. 222(4) fig. 1-1a in Gerth, 1929, pl. 7 fig. 3-3a in Gerth, 1927d) [pl. 101 fig. 5 and pl. 101 fig. 6]), of Töo collected by Jonker (specimen THDKA.11719 (pl. 221(3) fig. 6 in Gerth, 1929, pl. 5 fig. 4 in Gerth, 1927d) [pl. 101 fig. 7 and pl. 101 fig. 8]).

*Mastophyma jonkeri* Gerth, 1927d

*Mastophyma Jonkeri* spec. nov — Gerth, 1927d: 110, pl. 2 fig. 5, pl. 5 fig. 3-3a; Gerth, 1929: 16-17, 29, pl. 221(3) fig. 5-5a, pl. 224(6) fig. 7
*Mastophyma jonkeri* Gerth — Gerth, 1931b: 115

Holotype from the Permian of Nefotassi collected by Jonker (specimen THDKA.11716 (pl. 224(6) fig. 7 in Gerth, 1929, pl. 5 fig. 3-3a in Gerth, 1927d) [pl. 101 fig. 9 and pl. 101 fig. 10]).

Remarks: According to the label of THDKA. 11716 a thin section belongs to it. However, none was found.

Genus *Palaeoderma* Gerth, 1927d
*Palaeoderma tubulosa* Gerth, 1927d

*Palaeoderma tubulosa* spec. nov — Gerth, 1927d: 116-117, pl. 5 fig. 6-6b; Gerth, 1929: 22-23, 29, pl. 221(3) fig. 7-7a, pl. 222(4) fig. 5
*Palaeoderma tubulosa* Gerth — Gerth, 1931b: 115

Holotype from the Permian near Basleo collected by Molengraaff (specimen THDKA.11729 (1 thin section, 1 fragment) (pl. 221(3) fig. 7-7a, pl. 222(4) fig. 5 in Gerth, 1929, pl. 5 fig. 6-6b in Gerth, 1927d) [pl. 101 fig. 11, pl. 101 fig. 12 and pl. 101 fig. 13]).

Genus *Palaeojerea* Gerth, 1927d
*Palaeojerea molengraaffi* Gerth, 1927d

*Palaeojerea Molengraaffi* spec. nov — Gerth, 1927d: 112-113, pl. 1 fig. 2, pl. 8 fig. 1-1b; Gerth, 1929: 18-19, 29, pl. 221(3) fig. 8-8a, pl. 222(4) fig. 6, pl. 224(6) fig. 8
*Palaeojerea molengraaffi* Gerth — Gerth, 1931b: 115

Holotype from the Permian near Basleo collected by Molengraaff during the 1911 Timor expedition (specimen THDKA.11723 (pl. 221(3) fig. 8-8a, pl. 222(4) fig. 6, pl. 224(6) fi in Gerth, 1929, pl. 1 fig. 2, pl. 8 fig. 1-1b in Gerth, 1927d) [pl. 101 fig. 14 and pl. 101 fig. 15], thin section RGM.532152 (pl. 1 fig. 2 in Gerth, 1927d) [pl. 102 fig. 1]).

Genus *Palaeophyma* Gerth, 1927d
*Palaeophyma claviger* Gerth, 1927d

*Palaeophyma*? *claviger* spec. nov — Gerth, 1927d: 108-109, 98, pl. 1 fig. 4-4a, pl. 4 fig. 3-3a
*Palaeophyma ? claviger* spec. nov — Gerth, 1929: 14-15,29, pl. 220(2) fig. 4-5, pl. 221(3) fig. 2, pl. 224(6) fig. 5
*Palaeophyma* (?) *claviger* Gerth — Gerth, 1931b: 115

Holotype from the Permian of Nefotassi collected by Jonker (specimen THDKA.11707 (pl. 224(6) fig. 5 in Gerth, 1929, pl. 4 fig. 3-3a in Gerth, 1927d) [pl. 102 fig. 2]).

Remarks: According to the label of THDKA. 11707 some thin sections should exist. None were found.

*Palaeophyma cucumeriformis* Gerth, 1927d

*Palaeophyma cucumeriformis* spec. nov — Gerth, 1927d: 106-107, pl. 1 fig. 7, pl. 2 fig. 3, pl. 5 fig. 1; Gerth, 1929: 13-14, 29, pl. 220(2) fig. 2, pl. 221(3) fig. 3, pl. 224(6) fig. 4
*Palaeophyma cucumeriformis* Gerth — Gerth, 1931b: 115

Holotype from the Permian of Nefotassi collected by Jonker (specimen THDKA.11704 (pl. 224(6) fig. 4 in Gerth, 1929, pl. 5 fig. 1 in Gerth, 1927d) [pl. 102 fig. 3]).

*Palaeophyma piriformis* Gerth, 1927d

*Palaeophyma piriformis* spec. nov — Gerth, 1927d: 107-108, pl. 4 fig. 2; Gerth, 1929: 14, 29, pl. 220(2) fig. 3
*Palaeophyma piriformis* Gerth — Gerth, 1931b: 115

Holotype from the Permian of Nefotassi collected by Jonker (specimen THDKA.11700 (pl. 220(2) fig. 3 in Gerth, 1929, pl. 4 fig. 2 in Gerth, 1927d) [pl. 102 fig. 4, pl. 102 fig. 5 and pl. 102 fig. 6]).

*Palaeophyma* sp.

*Palaeophyma* spec. II — Gerth, 1927d: 109, pl. 6 fig. 2
*Palaeophyma* spec. I — Gerth, 1927d: 109, pl. 7 fig. 4
*Palaeophyma* spec — Gerth, 1927d: pl. 8 fig. 5
*Palaeophyma* spec. I — Gerth, 1929: 15, pl. 220(2) fig. 6
*Palaeophyma* spec. II — Gerth, 1929: 15-16, pl. 221(3) fig. 4
*Palaeophyma* spec — Gerth, 1929: pl. 220 (2) fig. 7

Material from the Permian of Nefotassi collected by Jonker (3 specimens THDKA.11711 (2 fragments) (pl. 220(2) fig. 6 in Gerth, 1929, pl. 7 fig. 4 in Gerth, 1927d) [pl. 102 fig. 7], THDKA.11712 (pl. 221(3) fig. 4 in Gerth, 1929, pl. 6 fig. 2 in Gerth, 1927d) [pl. 102 fig. 8 and pl. 102 fig. 9], THDKA. 11714 (pl. 220 (2) fig. 7 in Gerth, 1929, pl. 8 fig. 5 in Gerth, 1927d) [pl. 102 fig. 10 and pl. 102 fig. 11]).

Genus *Pemmatites* Von Dunikowski, 1884
*Pemmatites timorensis* Gerth, 1927d

*Pemmatites timorensis* spec. nov — Gerth, 1927d: 102-103, pl. 3 fig. 5-8; Gerth, 1929: 9-10, 29, pl. 219(1) fig. 5-8

Syntypes from the Permian near Basleo (specimen IPB Gerth.12 (1 specimen, 1 thin section) (pl. 219(1) fig. 6, 8 in Gerth, 1929, pl. 3 fig. 6, 8 in Gerth, 1927d), specimen THDKA.11694 (pl. 219(1) fig. 8 in Gerth, 1929, pl. 3 fig. 8 in Gerth, 1927d)), collected by Molengraaff (4 specimens RGM.529394 (2 fragments), RGM.529395-529397), collected by Jonker (13 specimens RGM.529391 [pl. 102 fig. 12 and pl. 102 fig. 13], RGM.529392 [pl. 102 fig. 14 and pl. 102 fig. 15], RGM.529399-529408, THDKA.11695 (pl. 219(1) fig. 7 in Gerth, 1929, pl. 3 fig. 7 in Gerth, 1927d) [pl. 103 fig. 1 and pl. 103 fig. 2]).

Remarks: Gerth (1927d) studied 25 specimens in collections Jonker, Wanner and Molengraaff. Plate 219 (1) fig. 5-8 in Gerth (1929) are teh same as pl 3 fig. 5-8 in Gerth (1927d).

Genus *Phacellopegma* Gerth, 1927d
*Phacellopegma praemorsa* Gerth, 1927d

*Phacellopegma praemorsa* spec. nov — Gerth, 1927d: 105-106, pl. 4 fig. 1-1a; Gerth, 1929: 12, 29, pl. 219(1) fig. 12-12a
*Phacellopegma praemorsa* Gerth — Gerth, 1931b: 116

Holotype from the Permian of Nefotassi collected by Jonker (specimen THDKA.11699 (pl. 219(1) fig. 12-12a in Gerth, 1929, pl. 4 fig. 1-1a in Gerth, 1927d) [pl. 103 fig. 3 and pl. 103 fig. 4]).

Genus *Pycnospongia* Gerth, 1927d
*Pycnospongia timorensis* Gerth, 1927d

*Pycnospongia timorensis* spec. nov — Gerth, 1927d: 113-114, pl. 2 fig. 6, pl. 7 fig. 1-1a; Gerth, 1929: 19-20, 30, pl. 222(4) fig. 2-3
*Pycnospongia timorensis* Gerth — Gerth, 1931b: 116

Holotype from the Permian of Nefotassi collected by Jonker (specimen THDKA.11726 (pl. 2 fig. 6, pl. 7 fig. 1-1a in Gerth, 1927d) [pl. 103 fig. 5 and pl. 103 fig. 6]).

Genus *Timorella* Gerth, 1909
*Timorella permica* Gerth, 1909

*Timorella permica* n. g. n. sp — Gerth, 1909: 695-700, fig. 1-5
*Timorella* cf. *permica* Gerth — Gerth, 1927d: 122-123, pl. 2 fig. 1-1a, pl. 5 fig. 5, pl. 7 fig. 5; Gerth, 1929: 27-28, 29, pl. 223(5) fig. 2-4, pl. 224(6) fig. 12
*Timorella permica* — Gerth, 1929: 29
*Timorella permica* Gerth — Gerth, 1931b: 116
*Timorella* cf. *permica* Gerth — Gerth, 1931b: 116

Holotype from the Permian of Kali Mati near Kupang (specimen THDKA.2638 (fig. 1-2 in Gerth, 1909) [pl. 103 fig. 7 and pl. 103 fig. 8]).

Additional material from the Permian near Basleo collected by Wanner (specimen IPB Gerth.15 (2 thin sections, 3 fragments) (pl. 223(5) fig. 2-4, pl. 224(6) fig. 12 in Gerth, 1929, pl. 2 fig. 1-1a, pl. 5 fig. 5, pl. 7 fig. 5 in Gerth, 1927d)).

Remarks: Plate 223(5) fig. 2-4, pl. 224(6) fig. 12 in Gerth (1929) are the same as pl. 2 fig. 1-1a, pl. 5 fig. 5, pl. 7 fig. 5 in Gerth (1927d).

*Timorella* sp.

*Timorella* spec — Gerth, 1927d: 123-124, pl. 1 fig. 5; Gerth, 1929: 28, 29, pl. 223(5) fig. 5

Material from the Permian near Basleo (specimen THDKA.11735 (pl. 223(5) fig. 5 in Gerth, 1929, pl. 1 fig. 5 in Gerth, 1927d) [pl. 103 fig. 9 and pl. 103 fig. 10]).

Remarks: THDKA.11736 is included in the same bag as THDKA.11735. It is not clear if they are fragments from the same specimen.

Genus *Virgola* De Laubenfels, 1955
Synonym Virgula Girty, 1908
*Virgula? malayica* Gerth, 1927d

*Virgula? malayica* spec. nov — Gerth, 1927d: 115-116, pl. 1 fig. 1, pl. 5 fig. 2-2a; Gerth, 1929: 21-22, 29, pl. 222(4) fig. 8-8a, pl. 224(6) fig. 11
*Virgula* (?) *malayica* Gerth — Gerth, 1931b: 116

Holotype from the Permian of Mot collected by Wanner (specimen IPB Gerth.13 (1 specimen, 1 thin section) (pl. 222(4) fig. 8-8a, pl. 224(6) fig. 11 in Gerth, 1929, pl. 1 fig. 1, pl. 5 fig. 2-2a in Gerth, 1927d)).

Class Demospongiae
Genus *Hindia* Duncan, 1879b
*Hindia permica* Gerth, 1927d

*Hindia permica* spec. nov — Gerth, 1927d: 98-100, pl. 2 fig. 2, pl. 3 fig. 3-4; Gerth, 1929: 6, 29, pl. 219(1) fig. 3-4, pl. 224(6) fig. 2
*Hindia permica* Gerth — Gerth, 1931b: 116

Syntypes from the Permian of Bitauni collected by Molengraaff (2 specimens RGM.529386 (2 fragments), THDKA.11691 (pl. 219(1) fig.4 in Gerth, 1929, pl. 3 fig. 4 in Gerth, 1927d) [pl. 103 fig. 11], 4 thin sections RGM.529418 (pl. 2 fig. 2 in Gerth, 1927d) [pl. 103 fig. 12], RGM.529419 [pl. 103 fig. 13], RGM.529420 [pl. 103 fig. 14], RGM.529421 [pl. 103 fig. 15]), of Nussa Tenggara Timur collected by Wanner (specimen IPB Gerth.9 (pl. 219(1) fig.3-3a in Gerth, 1929, pl.3 fig. 3-3a in Gerth, 1927d)), between Niki Niki and the Noil Fatu collected by Molengraaff during the 1911 Timor expedition (3 specimens RGM.529388-529390).

Remarks: Gerth (1927d) studied in Coll. Molengraaf two specimens from Bitauni and five specimens from between Niki Niki and the Noil Fatu, in coll. Wanner: one specimen from Point 666 near Basleo, one from Nabu near Fatu Tassu and one from Mot. Plate 219(1) fig.3-4, pl. 224(6) fig. 2 in Gerth (1929) are the same as pl. 3 fig. 3-4 and pl. 2 fig. 2 in Gerth (1927d).

*Hindia permica* var. *bitaoeniensis* Gerth, 1927d

*Hindia permica* spec. nov. var. *bitaoeniensis* var. nov — Gerth, 1927d: 100, pl. 1 fig. 8, pl. 3 fig. 2-2a
*Hindia permica* spec. nov. var. *bitauniensis* var. nov — Gerth, 1929: 7, 29, pl. 219(1) fig. 2-2a, pl. 214(6) fig. 3
*Hindia permica* var. *bitaoenensis* Gerth — Gerth, 1931b: 116

Holotype from the Permian of Bitauni collected by Wanner (specimen IPB Gerth.10 (2 thin sections, 3 fragments) (pl. 219(1) fig. 2-2a, pl. 214(6) fig. 3 in Gerth, 1929, pl. 1 fig. 8, pl. 3 fig. 2-2a in Gerth, 1927d)).

Remarks: The spelling in Gerth (1929) ("bitauniensis") is considered a subsequent incorrect spelling, although the locality name is mostly spelled as "Bitauni". Gerth (1927d) spelled the locality as "Bitaoeni". Plate 219(1) fig. 2-2a, pl. 214(6) fig. 3 in Gerth (1929) are the same as pl. 3 fig. 2, 2a and pl. 1 fig. 8 in Gerth (1927d).

*Hindia wanneri* Gerth, 1927d

*Hindia Wanneri* spec. nov — Gerth, 1927d: 100-101, pl. 2 fig. 7, pl. 3 fig. 1-1b; Gerth, 1929: 7, 29, pl. 219(1) fig. 1-1b, pl. 224(6) fig. 1
*Hindia wanneri* Gerth — Gerth, 1931b: 116

Holotype from the Permian of Bitauni collected by Wanner (specimen IPB Gerth.11 (1 thin section, 2 fragments) (pl. 2 fig. 7, pl. 3 fig. 1-1b in Gerth, 1927d)).

Remarks: Plate 219(1) fig. 1-1b, pl. 224(6) fig. 1 Gerth (1929) are the same as pl. 2 fig. 7, pl. 3 fig. 1-1b in Gerth (1927d).

Regnum Protoctista
Phylum Granuloreticulosa
Class Foraminifera Von Eichwald, 1830
Genus *Alveolinella* Douvillé, 1907
*Alveolinella bontangensis* Rutten, 1913

*Alveolinella bontangensis*, Rutten — Douvillé, 1916: 32-33, text-fig. 4, pl. 4 fig. 10

Material from the Lower Miocene: Rembang Beds near Sedan collected by R.D.M. Verbeek (specimen RGM.3313 (text-fig. 4 and/or pl. 4 fig. 10 in Douvillé, 1916)).

Genus *Cycloclypeus* Carpenter, 1856
*Cycloclypeus annulatus* Martin, 1880a

*Cycloclypeus annulatus* nov. spec — Martin, 1880a: 157-158, pl. 28 fig. 1
*Cycloclypeus annulatus*, Martin — Douvillé, 1916: 30-32, pl. 5 fig. 6, pl. 6 fig. 1-4
*Cycloclypeus annulatus* Mart — Gerth, 1931c: 193

Syntypes from the Tertiary locality "Junghuhn Q" collected by Junghuhn (3 specimens RGM.3280, RGM.3283-3284, 3 thin sections RGMS.10121-10122, RGMS.10196).

Additional material: calcaires marneux jeunes of Ngampel (specimen RGM.3435 (pl. 5 fig. 6, pl. 6 fig. 1-2, 4 in Douvillé, 1916)), of Ngandang (specimen RGM.3279 (pl. 6 fig. 3 in Douvillé, 1916)).

Remarks: The caption of pl. 5 fig. 6 in Douvillé (1916) suggests locality Ngampel while the one on pl. 6 suggests Ngandang, while the number RGM 3435 is pencilled in the library specimen of Douvillé (1916) for all these figured specimens.

*Cycloclypeus communis* Martin, 1880a

*Cycloclypeus communis* nov. spec — Martin, 1880a: 154-156,pl. 27 fig. 1-2
*Cycloclypeus communis*, Martin — Douvillé, 1916: 28-30, pl. 5 fig. 5
*Cycloclypeus communis* Mart — Gerth, 1931c: 193, 196

Syntypes of Java (thin section RGMS.10124), collected by Junghuhn (10 thin sections RGMS.10123, RGMS.10126-10127, RGMS.10132-10136, RGMS.10140, RGMS.10142), from the Neogene in the inner part of Cidamar collected by Junghuhn (5 specimens RGM.3302, RGM.3304-3305, RGM.3309, RGM.3316), from the Miocene in the western part of Cidamar collected by Junghuhn (9 specimens RGM. 3295-3299, RGM.3301, RGM.3310, RGM.3355, RGM. 3448-1).

Additional material: calcaires marneux jeunes of Ngampel (specimen RGM.3266 (pl. 5 fig. 5 in Douvillé, 1916)).

Remarks: Martin (1880a) studied many specimens from Junghuhn localities K, L, O, P. RGM 3311 and 3312 are both from locality "Junghuhn C" and are therefor not considered to belong to the typeseries. In the RGM system are no specimens specifically from locs. O and P registered. Gerth (1931c) erroneously wrote on p. 196: "Cyclopeus".

*Cycloclypeus neglectus* Martin, 1880a

*Cycloclypeus neglectus* nov. spec — Martin, 1880a: 156-157, pl. 27 fig. 3

Syntypes of Java (thin section RGMS.10138), collected by Junghuhn (7 thin sections RGMS.10128-10131, RGMS.10137, RGMS.10139, RGMS.10141).

Remarks: Martin (1880a) studied specimens from locality "Junghuhn E" and locality "Junghuhn S".

Genus *Flosculinella* Schubert in Richarz, 1910
*Flosculinella globulosa* Rutten, 1917

*Alveolinella globulosa* spec. nov — Rutten, 1917: 277, 276, pl. 6 fig. 140-141

Syntypes: West Progo Beds near Gunung Spolong collected by K. Martin 1910 (specimen RGM. 3272), of West Progo mountains collected by K. Martin 1910 (specimen RGM.3273).

Remarks: Rutten (1917) mentioned many from Kembang Sokkoh and from Gunung Spolong.

Genus *Lepidocyclina* Gümbel, 1868
*Lepidocyclina gigantea* (Martin, 1880a)

*Orbitoides gigantea* nov. spec — Martin, 1880a: 162-163, pl. 28 fig. 3
*Lepidocyclina gigantea* Mart — Gerth, 1931c: 193, 196

Holotype from the Neogene in the inner part of Cidamar collected by Junghuhn (specimen RGM. 3445 (pl. 28 fig. 3 in Martin, 1880a), 2 thin sections RGMS.10125 ( in Martin, 1880a), RGMS.10163), from the Miocene probably in the western part of Cidamar collected by Junghuhn (thin section RGMS.10195).

Remarks: The lable of RGM.3445 reads: "Oud Mioceen".

*Lepidocyclina transiens* Umbgrove, 1929b

*Lepidocyclina transiens* spec. nov — Umbgrove, 1929b: 110-113, 1 text-fig., 1 pl. fig. 1-5

Syntype from the Miocene of Wai Geloe (specimen RGM.40248).

Remarks: Umbgrove (1929b) studied specimens from S.255 ( Palembang) and S. 558 ( Lampong) in the paleontological collections of the "Opsporingsdienst".

Subgenus *Lepidocyclina (Eulepidina)* Douvillé, 1911
*Lepidocyclina (Eulepidina) carteri* Martin, 1880d

*Orbitoides Carteri* nov. spec — Martin, 1880a: 161-162, pl. 28 fig. 2
*Lepidocyclina (Eulepidina) Carteri*, Martin — Douvillé, 1916: 27, text-fig. 2

Syntype from the Miocene in the western part of Cidamar collected by Junghuhn (specimen RGM. 3444).

*Lepidocyclina (Eulepidina) euglabra* Douvillé, 1925

*Lepidocyclina (Eulepidina) glabra*, Rutten, mut. *major* — Douvillé, 1916: 24, pl. 4 fig. 1-2, pl. 5 fig. 3

Material of Ngandang (specimen RGM.3439 (pl. 5 fig. 3 in Douvillé, 1916)); yellow limestone of Ngandang (2 specimens RGM.3438 (pl. 4 fig. 1 in Douvillé, 1916), RGM.3440 (pl. 4 fig. 2 in Douvillé, 1916)).

*Lepidocyclina (Eulepidina) limbata* Douvillé, 1916

*Lepidocyclina (Eulepidina) limbata* nov. sp — Douvillé, 1916: 25-26, text-fig. 1, pl. 4 fig. 8-9

Syntype: yellow limestone of Ngampel (specimen RGM.3403 (text-fig. 1 and/or pl. 4 fig. 8-9 in Douvillé, 1916)).

Remarks: Douvillé (1916) studied specimens from the yellow limestones with *Cycloclypeus* and from the gray limestones with *Lepidocyclina (Eulepidina) papulifera*, both from Ngampel.

*Lepidocyclina (Eulepidina) papulifera* Douvillé, 1916

*Lepidocyclina (Eulepidina) papulifera*, nov. sp — Douvillé, 1916: 22-23, pl. 3 fig. 1-3

Syntypes: gray sand with glauconite of Ngampel (2 specimens RGM.3442 (pl. 3 fig. 1 in Douvillé, 1916), RGM.3443 (pl. 3 fig. 1, 2 and/or 3 in Douvillé, 1916)).

*Lepidocyclina (Eulepidina) radiata* (Martin, 1880a)

*Orbitoides radiata* nov. spec — Martin, 1880a: 163, pl. 28 fig. 4
*Lepidocyclina (Eulepidina) radiata*, Martin — Douvillé, 1916: 26, pl. 5 fig. 4
*Lepidocyclina radiata* Martin — Gerth, 1931c: 196

Holotype from the Miocene in the western part of Cidamar collected by Junghuhn (2 thin sections RGMS.10190, RGMS.10193).

Syntype from the Miocene in the western part of Cidamar (specimen RGM.3448-0).

Additional material: gray sand with glauconite of Ngampel (specimen RGM.3449 (pl. 5 fig. 4 in Douvillé, 1916)).

*Lepidocyclina (Eulepidina) rutteni* Douvillé, 1925

*Lepidocyclina (Eulepidina) glabra*, Rutten, mut. *subradiata* — Douvillé, 1916: 24-25, pl. 5 fig. 1-2

Material: yellow limestone of Ngandang (specimen RGM.3437 (pl. 5 fig. 1-2 in Douvillé, 1916)).

Subgenus *Lepidocyclina (Nephrolepidina)* Douvillé, 1911
*Lepidocyclina (Nephrolepidina) martini* Schlumberger, 1900

*Lepidocyclina (Nephrolepidina) Martini*, Schlumb — Douvillé, 1916: 28, pl. 4 fig. 3-7

Material: yellow limestone of Ngandang (specimen RGM.3450 (pl. 4 fig. 3-7 in Douvillé, 1916)).

Genus *Orbiculina* De Lamarck, 1816
*Orbiculina adunca* (Von Fichtel & Von Moll, 1798)

*Orbiculina* cf. *adunca* F. e. M — Rutten, 1917: 277, pl. 5 fig. 142

Material: West Progo Beds near Kembang Sokkoh collected by K. Martin 1910 (2 specimens RGM.3267-3268).

Phylum Rhodophyta
Genus *Archaeolithothamnium*
*Archaeolithothamnium curasavicum* (Martin, 1888) Howe, 1918

*Lithothamnium curasavicum* nov. spec — Martin, 1888: 26-27, pl. 2 fig. 22-25
*Archaeolithothamnium curasavicum* (Martin, 1888) Howe, 1918 — Van Konijnenburg-van Cittert et al., 2004: 5

Syntypes from the Upper Cretaceous: Rudistenkalk of Savonet collected by K. Martin (thin section RGM.525531 (pl. 2 fig. 23 in Martin, 1888) [pl. 104 fig. 1]); Seroe Teintje Limestone of Savonet collected by K. Martin (thin section RGM.17913 [pl. 104 fig. 2]).

Remarks: Van Konijnenburg-van Cittert et al. (2004) referred to RGM.17913 as the holotype and it should be illustrated by Martin (1888) in his fig. 22. RGM. 45829 was referred as a syntype. RGM.525531 was not mentioned by these authors, but it was also illustrated by Martin. Therefore it is not directly obvious to us that RGM.17913 is referred as a holotype. Martin did not establish any of his material as holotypes. Further evaluation of the status of this material is neccessary.

## Acknowledgements

The preparation of this catalogue was financed by a NWO-grant 'Building the Databases of Life' (2005-2006). Steve Donovan is thanked for indications on how to improve the manuscript. Regards go to Ken Johnson for his presence was a good testcase for the use of the database. Manuel Kunz of the Goldfuss Museum of the Rheinische Friedrich Wilhelm Universität in Bonn is thanked for delivering information on Gerth specimens in that museum.

## References

Achiardi, A. d'. 1868. Corallarj fossili del terreno nummulitico dell'Alpi veneto. Parte II. *Memorie della Societa Italiana di Scienze Naturali*, **4** (1): 31 pp + 8 pls.
Achiardi, A. d'. 1875. Coralli eocenici dei Friuli. *Soc. Toscana Sci. Nat. (Pisa)*, **1**: 70-86, 115-124 + pls 1-2, 6-7.
Agassiz, L. 1836. Prodrome d'une monographie des Radiaires ou Échinodermes. *Soc. Nat. Neuchâtel, Mém.*, **1**: 168-199.
Agassiz, L. 1840. Description des Échinodermes fossiles de la Suisse: seconde partie. *Allg. Schweizer. Gesell., Neue Denkschr.*, **4**: 108 pp + pls 14-23.
Agassiz, A. 1863. List of the echinoderms sent to different institutions in exchange for other specimensw, with annotations. *Mus. Comp. Zool.*, **1** (2): 17-28.
Agassiz, A. 1872-1874. Revision of the Echini. *Mem. Mus. Comp. Zool.*, **3** (3,4): 383-762 + pls 1-38.
Agassiz, L.& Desor, P.J.E. 1847. Catalogue raisonné des espèces, des genres, et des familles d'Échinides. *Ann. Sci. nat. Paris, Zoologie, série 3*, **7, 8**: 129-168 + 5-35 + 355-380.
Alcock, A. 1893. On some newly-recorded corals from the Indian seas. *Journal of the Asiatic Society of Bengal*, **62** (2): 138-149.
Alcock, A. 1902. Report of the Deep-Sea Madreporaria of the Siboga Expedition. *Siboga expeditie, Mon.*, **16a**: 55 pp + 5 pls.
Beets, C. 1983. Miocene (Preangerian) molluscs from Kari Orang, northern Kutai, East Borneo. *Scripta Geologica*, **67**: 23-47.
Beets, C. 1986a. Molluscan fauna of the Lower Gelingseh Beds s. str., Sangkulirang area, Kalimantan timur (East Borneo). *Scripta Geologica*, **82**: 1-82.
Beets, C. 1986b. Notes on *Buccinulum* (Gastropoda, Buccinidae), a reappraisal. *Scripta Geologica*, **82**: 83-100.
Beyrich, A.H.E. von. 1865. Uber eine Kohlenkalk-Fauna von Timor. *Abhandlungen der Preussischen Akademie der Wissenschaften (Physik)*, **(1864)**: 61-98.

Bittner, A. 1892. Ueber Echiniden der Tertiaers von Australien. *Sitzungsberichte der Akademie der Wissenschaften Wien, mathematisch-naturwissenschaftliche Klasse*, **101** (1): 331-371 + 4 pls.

Blainville, H.M.D. de. 1830. Zoophytes. *In:* Levrault, F.G. 1816-1830. *Dictionnaire des Sciences naturelles, dans lequel on traite méthodiquement des différens êtres de la nature, considérés soit en eux-mêmes, d'après l'état actuel de nos connoissances, soit relativement a l'utilité qu'en peuvent retirer la médicine, l'agricutlutre, le commerce et les arts.* Levrault et Le Normant, Paris, Strasbourg , **40**: 274-364.

Blainville, H.M.D. de. 1834. *Manuel d'Actinologie ou de Zoophytologie.* Levrault, Paris: 644 pp (text)+ 100 pls.

Bourne, G.C. 1900. The Anthozoa. *In:* Lancester, E.R. 1900. *A treatise on zoology. Part II. The Porifera and Coelenterata.* Adam & Charles Black, London: 80 pp.

Brandt, J.F. 1835. Prodromus descriptionis animalium ab H. Mertensio in orbis terrarum circumnavigatione observatorum. *Acad. Imp. Sci. St. Pétersbourg, Rec. Actes*: 201-276.

Buckman, S.S. 1921. Family Tulitidae. *In:* Buckman, S.S. 1909-1930. *(Yorkshire) Type Ammonites.* Wesley & Son, London , **3**: 43-52.

Carpenter, W.B. 1856. Researches on the foraminifera; part II. *Royal Society of London, Philosical Transactions.*, **146**: 555.

Clark, W.B. (ed.). 1916. Upper Cretaceous. *Maryland Geological Survey*, **6** (1): 1022 pp.

Cossmann, A.É.M. 1907. Rectifications de nomenclature. *Revue Critique de Paleozoologie*, **11**: 64.

Dana, J.D. 1846. *Zoophytes. Volume VII of the United States Exploring Expedition. During the Years 1838, 1839, 1840, 1841, 1842. Under the command of Charles Wilkes, U.S.N.* Lea and Blanchard, Philadelphia: 740.

De Koninck, L.G. 1842-1844. *Description des animaux fossiles qui se trouvent dans le calcaire carbonifère de Belgique.* Liège .

De Koninck, L.G. 1872. *Nouvelles recherches sur les animaux fossiles du terrain carbonifère de la Belgique: comprenant la classification méthodique et la synonymie de toutes les espèces connues, ainsi que la description et les figures des espèces nouvelles ou mal définies.* F. Hayez, Brussel: 2 p.l. + iv + 178 + [16] p. : XV pl.

Desor, P.J.E. 1855-1858. *Synopsis des échinides fossiles.* Ch. Reinwald, Kriedel & Niedler, Geneva, Paris, Wiesbaden: lxiii + 490 pp + 44 pls.

Donovan, D.T. 1962. -. *In:* Stanton, T.W.& Vaughan, T.W. (eds.). 1920. The Fauna of the Cannonball Marine Member of the Lance Formation. *Geological Survey Professional Paper*: 55 + encl. 17 fig. 16 + 19-32.

Douvillé, H. 1907. Les calcaires à fusulines de l'Indo-Chine. *Bulletin de la Société géologique de France, quatrième série*, **6** (7): 576-587, pls 17-18.

Douvillé, H. 1911. Les foraminifères dans le tertiaire des Philippines. *The Phillipine journal of science*, **D6** (2): 53-80.

Douvillé, H. 1916. Les foraminifères des couches de Rembang. *Sammlungen des Geologischen Reichs-Museums in Leiden. Serie 1, Beiträge zur Geologie Ost-Asiens und Australiens*, **10**: 19-35 + pl 3-6.

Douvillé, H. 1925. Revision des Lépidocyclines. Deuxième et Troisième partie. *Mémoires de la Société Géologique de France (Nouvelle série)*, **2**: 52-115 + pls 1(3)-5(7).

Duncan, P.M. 1863. On the fossil Corals of the West-Indian Islands.— Part II. *Quarterly Journal of the Geological Society of London*, **20**: 20-44 + pls 2-5.

Duncan, P.M. 1879a. *Karakorum stones, or Syringosphaeridae.* .

Duncan, P.M. 1879b. On some spheroidal lithistid Spongida from the Upper Silurian Formation of New Brunswick. *Annals and Magazine of Natural History (series 5)*, **4**: 84-91.

Duncan, P.M. 1880. Sind Fossil Corals and Alcyonaria. *Memoirs of the geological Survey of India. Palæontologia Indica.Ser. VII and XIV*, **1**.

Duncan, P.M. 1891. *?*.: 185.

Duncan, P.M. 1892. Description of some new species of Syringosphaeridae etc. *Rec. Geol. Survey India*, **23**.

Dunikowski, E. von. 1884. Ueber Permo-Corbon Schwämme von Spitzbergen. *Kongl. Svensk. Vetensk. Akad. Handl.*, **21**.

Döderlein, L. 1911. Ueber Echinoidea von den Aru Inseln. *Abhandlungen der Senckenbergischen Naturforschenden Gesellschaft*, **34**: 237-248 + pls 9-10.

Ehrenberg, C.G. 1831. *Symbolae physicae, seu icones et descriptiones corporum naturalium novorum aut minus cognitorum, quae ex itineribus per Libyam, Aegyptum, Nubiam, Dongalam, Syriam, Arabiam, et Habissiam ... studio annis 1820-25 redierunt ... Pars zoologica, Animalia evertebrata exclusis Insectis.* Berlin , **4**: 10 pls.

Ehrenberg, C.G. 1834. *Die Corallenthiere des Rothen Meeres physiologisch untersucht und systematisch verzeichnet.* Berlin: 156 pp.

Ellis, J.& Solander, D. 1786. *The Natural History of Many Curious and Uncommon Zoophytes, Collected from Various Parts of the Globe.* Benjamin White and Son, London: 206 pp.

Ezzoubaïr, F. 2000. *Recherches sur les tabules permiens de Timor et sur les affinites biologiques des spongiomorphides du trias d'Autriche: importance des donnees microstructurales, geochimiques et biochimiques.* Université Libre de Bruxelles, Faculté des Sciences: 346 pp.

Felix, J. 1913. Die fossilen Anthozoen aus der Umgegend von Trinil. *Palaeontographica*, **60**.

Felix, J. 1915. Jungtertiäre und quartäre Anthozoën von Timor und Obi I. Theil. *Paläontologie von Timor*, **2**: 3-45 + pls 37-38.

Felix, J. 1920. Jungtertiäre und quartäre Anthozoën von Timor und Obi II. Theil. *Paläontologie von Timor*, **8**: 1-40 + pl 128.

Felix, J. 1921. Fossile Anthozoën von Borneo. *Paläontologie von Timor*, **9** (15): 1-64 + pls 1-4.

Felix, J. 1925. Anthozoa eocaenica et oligocaenica. *Fossilium Catalogus*, **28**: 1-296.

Fichtel, L. von & Moll, J.P.C. von. 1798. *Testacea Microscopica alique minuta ex Generibus Argonauta et Nautilus.* Anton Pichler, Wien: 123 pp + 24 pls.

Fischer von Waldheim, J.G. 1807. *Museum Demidoff.* Université imperiale, Moscow , **3**: [iv] + ix + 330 pp + 6 pls.

Flemming, J. 1828. *A history of British animals, exhibiting the descriptive characters and systematical arrangement of the genera and species of quadrupeds, birds, reptiles, fishes, mollusca, and radiata of the United Kingdom; including the indigenous, extirpated, and extinct kinds, together with periodical and occasional visitants.* Edingburgh: xxiii + 565 pp.

Frech, F. 1890. Die Korallenfauna der Trias: Die Korallen juvavischer Triasprovinz. *Palaeontographica*, **37** (1-4): 1-116.

Fritsch, K. von. 1875. Fossile Korallen der Nummulitenschichten von Borneo. *Palaeontographica. Beitrage zur Naturgeschichte der Vorzeit. Supplement*, **III** (1): 93-135 + 4 pls.

Fromentel, E. de. 1861. *Introduction a l'étude des Polypiers fòssiles comprenant leur histoire, leur anatomie, leur mode de multiplication et de reproduction, leurs habitudes extérieures, leur classification d'après la méthodes dichotomique, la description des ordres, des familles, des genres, la synonymie et la description succincte de toutes les expèces connues.* F. Savy, Paris: 359 pp.

Gerth, H. 1908. Beiträge zur Phylogenie der Tubocorallier. *Zeitschrift für induktieve Abstammungs- und Vererbungslehre*, **1** (1): 5-62.

Gerth, H. 1909. *Timorella permica* n. g. n. sp. , eine neue Lithistide aus dem Perm von Timor. *Centralblatt für Mineralogie, Geologie und Paläontologie*, **1909**: 695-700.

Gerth, H. 1910. Fossile Korallen von der Molukkeninsel Buru nebst einigen Bemerkungen über die Phylogenetischen Beziehungen der Gattung *Alveopora*. *Neues Jahrbuch für Mineralogie, Geologie und Paläontologie*, **2**: 16-28.

Gerth, H. 1915. Die Heterastridien von Timor. *Paläontologie von Timor*, **2**: 63-69 + pl 42.

Gerth, H. 1919. Über die Entwicklung des Septalapparates bei den paläozoischen Rugosen und bei lebenden Korallen. *Zeitschrift für induktieve Abstammungs- und Vererbungslehre*, **21** (4): 201-215.

Gerth, H. 1921a. Die Anthozoen der Dyas von Timor. *Paläontologie von Timor*, **9**: 67-147 + pls 145-150.

Gerth, H. 1921b. Der paläontologische Character der Anthozoenfauna des Perm von Timor. *Nederlansche Timor-Expeditie*, **3**: 3-30 + pls 1-2.

Gerth, H. 1921c. Coelenterata. *In:* Martin, K. 1909-1922c. Die Fossilien von Java auf grund einer Sammlung von Dr. R. D. M. Verbeek und von Anderen. I. Band, 2te Abtlg. *Sammlungen des geologischen Reichs-Museums in Leiden. Neue Folge*, **1** (2, Heft 3): 387-445 + pls 1-3.

Gerth, H. 1921d. Echinodermata. *Sammlungen des geologischen Reichs-Museums in Leiden. Neue Folge*, **1** (2): 497-519 + pl 1.

Gerth, H. 1922. Gebirgsbildung und Vulkanismus in der argentinischen Kordillere. *Zeitschrift der Deutschen geologischen Gesellschaft. B. Monatsberichte*, **73** (8-10) 192-193.

Gerth, H. 1923. Die Anthozoenfauna des Jungtertiärs von Borneo. *Sammlungen des Geologischen Reichs-Museums in Leiden. Serie 1, Beiträge zur Geologie Ost-Asiens und Australiens*, **10**: 37-136 + pls 1-9.

Gerth, H. 1925. Jungtertiäre Korallen von Nias, Java und Borneo, nebst einer Uebersicht über die as dem Känozoikum des Indischen Archipels bekannten Arten. *Leidsche Geologische Mededeelingen*, **1** (1): 22-82.

Gerth, H. 1927a. Eine Favosites Kolonie aus dem Paleozoikum von Neu-Guinea. *Leidsche Geologische Mededeelingen*, **2**: 228-229 + pl 36.

Gerth, H. 1927b. Über einige pliozän-quartäre Echiniden von Timor. *Paläontologie von Timor*, **15**: 181-184 + 1 pl.

Gerth, H. 1927c. Ein neues Vorkommen der bathyalen Cephalopoden-Facies des mittleren Jura in Niederländisch-Neu-Guinea. *Leidsche Geologische Mededeelingen*, **2**: 225-228 + pl 36.

Gerth, H. 1927d. Die Spongien aus dem Perm von Timor. *Jaarboek van het Mijnwezen in Nederlandsch-Indië. Verhandelingen*, **25**: 91-132 + pls 1-8.

Gerth, H. 1928. Beiträge zur Kenntnis der mesozoischen Korallenfaunen von Südamerika. *Leidsche Geologische Mededeelingen*, **3** (1): 1-16 + pls 1-2.

Gerth, H. 1929. Die Spongien aus dem Perm von Timor. *Paläontologie von Timor*, **16**: 1-36 + pls 219-224.

Gerth, H. 1930. The evolution of reefcorals during the Cenozoic period. *Proceedings of the Fourth Pacific Science Congress Java, 1929*, **2a**: 333-350.

Gerth, H. 1931a. Onze palaeontologische kennis van Nederlansche Oost-Indië in 1930. 5. Coelenterata. *Leidsche Geologische Mededeelingen*, **5**: 120-151.

Gerth, H. 1931b. Onze palaeontologische kennis van Nederlansche Oost-Indië in 1930. 4. Porifera. *Leidsche Geologische Mededeelingen*, **5**: 115-119.

Gerth, H. 1931c. Der geologische Bau Javas. *Geologische Rundschau*, **22**: 189-200.

Gerth, H. 1933. Neue Beiträge zur Kenntnis der Korallenfauna des Tertiärs von Java. 1. Die Korallen des Eocaen und des älteren Neogeen. *Dienst van den Mijnbouw in Nederlandsch-Indië. Wetenschappelijke Mededeelingen*, **25**: 1-45 + pls 1-5.

Gerth, H. 1938. Permkorallen aus dem östlichen Karakorum und Triaskorallen aus dem nordwestlichen Himalaya. *Palaeontographica*, **88A**: 230-237 + pls 15.

Gerth, H. 1944. Formenfülle und Lebensweise der Heterastridien von Timor. *Palaeontologische Zeitschrift*, **23** (1/2): 181-202 pl 8-10.

Gerth, H. 1952. Die von Sipunculiden bewohnten lebenden und jungtertiären Korallen und der wurmförmige Körper von *Pleurodictyum*. *Paläontologische Zeitschrift*, **25**: 119-126 + pl 6.

Gerth, H. 1965. Ammoniten des mittleren und oberen Jura und der ältesten Kreide von Nordabhang des Schneegebirges in Neu Guinea. *Neues Jahrbuch für Geologie und Palaeontologie, Abhandlungen*, **121** (3): 209-218.

Giattini, G.B. 1902. Fossili del Lovcen nel Montenegro. *Rivista Italiana di Paleontologia*, **1902**.

Girty, G.H. 1908. The Guadalupian fauna. *Geological Survey Professional Paper*, **58**: 649 pp.

Goldfuss, A. 1826. Zoophytorium reliquiae. [Genus I. Achilleum till XXXIX. Syringopora]. *In:* Goldfuss, A. 1826-1844. *Petrefacta Germaniae tam ea, quae in Museo Unversitatis Regiae Borussicae Fridericae Vilhemmiae Rhenanae servatur quam alia quaecunque in Museis Hoeninghusiano Muensteriano Aliisque extant.* Arntz & Comp., Düsseldorf , **1** (1): I-VIII + 1-76 + pls 1-25.

Grabau, A.W. 1899. Moniloporidae, a new family of Palaeozoic Corals. *Proceedings of the Boston Society of Natural History*, **28**: 409-424 + pls 1-4.

Grabau, A.W. 1922. Palaeozoic Corals of China. Part I. Tetraseptata. *Palaeontol. Sinica (B)*, **2** (1): 76 pp + 6 pls.

Grabau, A.W. 1928. Palaeozoic Corals of China. Part I. Tetraseptata. II. Second contribution to our knowledge of the Streptelasmoid Corals of China and Adjacent Territories. *Palaeontol. Sinica (B)*, **2** (2): 175 pp + 6 pls.

Gray, J.E. 1825. An attempt to divide the Echinida or Sea Eggs, into natural families. *Ann. Philos. ser. 2*, **10** (4): 423-431.

Gray, J.E. (ed.). 1855. *Catalogue of the recent Echinida, or Sea-Eggs, in the collection of the British Museum. Part 1. Echinida Irregularia.* London: i-iv + 1-69 + pls 1-6.

Griffith, R. 1844. *A synopsis of the characters of the Carboniferous limestone fossils of Ireland.* University Press, Dublin: 274 pp + 29 pls.

Gümbel, C.W. 1868. Beiträge zur Foraminiferenfauna der nordalpinen Eocängebilde. *Bayerische Akademie der Wissenschaften, mathematisch-physische Klasse, Abhandlungen, Sitzungsberichte*, **10** (2): 689.

Haeckel, E.H.P.A. 1866. *Generelle Morphologie der Organismen: allgemeine Grundzu¨ge der organischen Formen-Wissenschaft, mechanisch begru¨ndet durch die von C. Darwin reformirte Decendenz-Theorie.* Verlag von Georg Reimer, Berlin , **2**.

Hatschek, B. 1888. *Lehrbuch der Zoologie. Eine morphologische Übersicht des Thiereiches zur Einführung in das Studium dieser Wissenschaft.* Gustav Fischer, Jena: iv+302 pp.

Heritsch, F. 1933. Rugose Korallen aus dem Trogkofelkalk der Karawanken und der Karnischen Alpen. *Prirodoslovne Razprave*, **2**: 42-55 + pls 5-6.

Herklots, J.A. 1854. *Fossiles de Java. Description des restes fossiles d'animaux des terrains tertiaires de l'ile de Java, recueillis sur les lieux par M. Fr. Junghuhn, docteur ès-sciences, publiés par ordre de S. M. le Roi des Pays-Bas.* E. J. Brill, Leiden: i-iv + 1-24 + pls 1-5.

Hill, D. 1937. Type specimens of Paleozoic corals from New South Wales in W. B. Clarke's first collection, and in the Strzelecki collection. *Geological Magazine*, **74**: 145-153.

Hinde, G.J. 1890. Notes on the Palaeontlogy of Western Australia, Corals and Polyzoa. *Geological Magazine*, **7**.

Horst, C.J. van der. 1921. Madreporaria of the Siboga Expedition. Pt. 2. *Siboga-Expeditie Monogr.*, **16b**: 53-98 + pls 1-6.

Howe, M.A. 1918. On some fossil and recent Lithothamnieae of the Panama Canal Zone. *Bulletin of the United States National Museum, Smithsonian Institution*, **103**: 1-13.

ICZN,. 1999. *International Code of Zoological Nomenclature, Fourth edition.* The International Trust for Zoological Nomenclature c/o The Natural Hi: 306 pp.

Jeannet, A. 1937. -. *In:* Jeannet, A.& Martin, R. 1937. Ueber neozoische Echinoidea aus dem Niederlaendisch-Indischen Archipel. *Leidsche Geologische Mededeelingen*, **8**: 228-230 + 232-234 + 238-239 + 262-263 + 267-26.

Jeannet, A.& Martin, R. 1937. Ueber neozoische Echinoidea aus dem Niederlaendisch-Indischen Archipel. *Leidsche Geologische Mededeelingen*, **8**: 215-308.

King, W. 1850. A Monograph of the Permian Fossils of England. *Monograph of the Palaeontographical Society*, **3** (5): i-xxxviii + 1-258 + 28 pls.

Klunzinger, C.B. 1879. *Die Korallthiere des Rothen Meeres. 2. Die Steinkorallen.* Gutmann'schen Buchhandlung, Berlin: 88 pp.

Koker, E.M.J. 1924. Anthozoa uit het Perm van het eiland Timor. I. Zaphrentidae, Plerophyllidae, Cystiphyllidae, Amphiastraeidae. *Jaarboek van het Mijnwezen in Nederlandsch-Indië. Verhandelingen*, **51**: 1-50 + pls 1-11.

Konijnenburg-van Cittert, J.H.A. van, Waveren, I.M. van & Jonkers, J.B. 2004. Catalogue of the Mesozoic and Cenozoic holotypes in the collection of plant fossils in the Nationaal Natuurhistorisch Museum, Leiden. *NNM Technical Bulletin*, **7**: 27 pp.

Lamarck, J.B. de. 1801. *Système des animaux sans vertèbres.* Musee d'Histoire Naturelle, Paris: 432 pp.

Lamarck, J.B. de. 1816. *Histoire Naturelle des Animaux sans Vertèbres.* Verdière, Paris , **2**: 568 pp.

Lambert, J.M.& Jeannet, A. 1935. Contribution à l'étude de Echinides tertiaires des Illes de la sonde. I. Echinides réguliers. *Mémoires de la Société Paléontologique Suisse*, **56**: 1-62 + fig. 1-76 + pls 1-4.

Lambert, J.M.& Thiéry, P. 1910. -. *In:* Lambert, J.M.& Thiéry, P. 1909-1925. *Essai de nomenclature raisonnée des Échinides.* Chaumont(2): 81-160.

Lambert, J.M.& Thiéry, P. 1914. No. 4. *In:* Lambert, J.M.& Thiéry, P. 1909-1925. *Essai de nomenclature raisonnée des Échinides.* Chaumont: 241-320 + pls 7 + 8.

Lamouroux, J. 1821. *Exposition méthodique des genres de l'ordre des polypiers.* Agasse, Paris: 115 pp + 84 pls.

Laubenfels, M.W. de. 1955. Porifera. *In:* Moore, R.C. (ed.). 1953-1969. *Treatise on Invertebrate Paleontology.* The University of Kansas Press and The Geological Society of America, **E**: E21-E112.

Leloux, J. 2002. Type Specimens of Maastrichtian Fossils in the National Museum of Natural History, Leiden. *NNM Technical Bulletin*, **4**: 1-40 + 4pls.

Leske, N.G. 1778. *Iacobi Theodori Klein Naturalis disposito Echinodermatum...* Lipsiae: 278 pp + 54 pls.

Link, H.F. 1807. *Beschreibung der Naturalien-Sammlungen der Universität Rostock.* , **3**: 161-165.

Linnaeus, C. 1758. *Systema Naturæ per Regna Tria Naturæ, Secundum Classes, Ordines, Genera, Species, cum Characteribus, Differentiis, Synonymis, Locis.* Laurentii Salvii, Stockholm , **1**: 824 pp.

Lonsdale, W. 1845. Report on the corals from the Tertiary formations of North America. *Quarterly Journal of the Geological Society of London*, **1**: 495-509.

M'Coy, F. 1847. On the fossil botany and zoology of the rocks associated the coal of Australia. *Annals and Magazine of Natural History*, **20** (133): 226-236, pl. 9-17.

M'Coy, F. 1849. ?. *The Annals and Magazine of Natural History including Zoology, Botany, and Geology. Second Series*, **3**: 10-11.

Mansuy, H. 1912. Mission du Laos, Géologie des environs de Luang-Prabang. *Mem. Serv. Géolog. de l'Indochine*, **1** (4): 1312 + pl 1.

Margulis, L.& Schwartz, K.V. 1998. *Five Kingdoms: an illustrated guide to the phyla of life on earth.* W. H. Freeman and company, New York: 520 pp.

Martin, K. 1880a. Vorwort, Palaeontologischer Theil: Crustacea, Corallia, Foraminifera, Erklärung der Abbildungen; Allgemeiner Theil; Anhang. *In:* Martin, K. 1879-1880a. *Die Tertiärschichten auf Java. Nach den Entdeckungen von Fr. Junghuhn.* E. J. Brill, Leiden: vii-ix + 127-164 + 1-51 +1-6 + pls 22-28.

Martin, K. 1880b. Revision of the Fossil Echini from the teriary Strata of Java. *Notes from the Royal Zoological Museum of the Netherlands at Leyden*, **2** (3): 73-84.

Martin, K. 1880c. Revision der von Herklots herausgegebenen fossilen Echiniden Javas. *In:* Martin, K. 1880c. Vorwort, Palaeontologischer Theil: Crustacea, Corallia, Foraminifera, Erklärung der Abbildungen; Allgemeiner Theil; Anhang. *In:* Martin, K. 1879-1880c. *Die Tertiärschichten auf Java. Nach den Entdeckungen von Fr. Junghuhn.* E. J. Brill, Leiden: vii-ix + 127-164 + 1-51 +1-6 + pls 22-28.

Martin, K. 1880d. Untersuchungen über die Organisation von *Cycloclypeus* und *Orbitoides*. *Niederländisches Archiv für Zoologie*, **5**: 9-22 + pls 8-14.

Martin, K. 1883. Die Versteinerungs-fuehrenden Sedimente Timors. *Sammlungen des Geologischen Reichs-Museums in Leiden. Serie 1, Beiträge zur Geologie Ost-Asiens und Australiens*, **1**: 1-64 + pls 1-3.

Martin, K. 1885. Systematischer Theil. I. Glossophora. B. Scaphopoda;II. Lamellibranchiata; Molluscoidea; Vermes; Echinoidea. *In:* Martin, K. 1883-1887. Palaeontologische Ergebnisse von Tiefbohrungen auf Java, nebst allgemeineren Studien ueber das Tertiaer von Java, Timor und einiger anderer Inseln. *Sammlungen des Geologischen Reichs-Museums in Leiden. Serie 1, Beiträge zur Geologie Ost-Asiens und Australiens*: 185-291.

Martin, K. 1888. *Bericht über eine Reise nach Niederländisch West-Indien und daruaf gegründete Studien. Zweiter Theil. Geologie.* E. J. Brill, Leiden: 238 pp + 2 pls + 1 map.

Martin, K. 1914. Die Fauna des Obereocäns von Nanggulan auf Java. *Sammlungen des geologischen Reichs-Museums in Leiden. Neue Folge*, **2** (4): 107-200.

Martin, K. 1919. Unsere palaezoologische Kenntnis von Java, mit einleitenden Bemerkungen über die Geologie der Insel. *Sammlungen des Geologischen Reichs-Museum in Leiden. Beilage*: i-xi + 1-158.

Martin, R. 1937. -. *In:* Jeannet, A.& Martin, R. 1937. Ueber neozoische Echinoidea aus dem Niederlaendisch-Indischen Archipel. *Leidsche Geologische Mededeelingen*, **8**: 219 + 223-224 + 232 + 246-247 + 253-254 + 268-269 + 276 + 292-295.

Matthai, G. 1914. A revision of the recent colonial Astræidæ possessing distinct corallites. *The Transactions of the Linnean Society of London. 2nd Ser. Zoology*, **17** (1): 1-140 + pls 1-38.

Michelin, H. 1840-1847. *Iconographie zoophytologique. Description par localités et terrains des ploypiers fossiles de France.* Bertrand, Paris: 328 pp +pls >=53.

Michelotti, G. 1838. *Specimen zoophytologiae diluvianae.* Turin: iv + 227 pp + 7 pls.

Milne Edwards, H. 1860. Suite de la section des madréporaires apores. *In:* Milne Edwards, H. 1857-1860. *Histoire naturelle des coralliaires ou polypes propements dits.* Librairie encyclopédique de roret, Paris , **3**: 560 pp.

Milne Edwards, H.& Haime, J. 1848a. Recherches sur les polypiers; deuxième mémoire. Monographie des Turbinolides. *Annales des Sciences Naturelles. Paris, Zoölogie*: III-9: 211-344 + pls 7-10.

Milne Edwards, H.& Haime, J. 1848b. Note sur la classification de la deuxième tribu de la famille des astréides. *Comptes rendus hebdomadaires des séances de l'Académie des Sciences*, **27** (20): 490-497.

Milne Edwards, H.& Haime, J. 1848c. Recherches sur les polypiers; troisième mémoire. Monographie des Eupsammides. *Annales des Sciences Naturelles. Paris, Zoölogie*, **III-10**: 65-114 + pls 1.

Milne Edwards, H.& Haime, J. 1848d. Observations sur les Polypiers de la famille des Astréides. *Comptes rendus hebdomadaires des séances de l'Académie des Sciences*, **27**: 465-469.

Milne Edwards, H.& Haime, J. 1848e. Recherches sur les polypiers; quatrième mémoire. Monographie des Astréides. *Annales des Sciences Naturelles. Paris, Zoölogie*, **III-10**: 209-320 + pls 5-9.

Milne Edwards, H.& Haime, J. 1849. Mémoire sur les polypiers appartenant à la famille des oculinides, au groupe intermédiaire des Pseudoastréides et à la famille des Fongides. *Comptes rendus hebdomadaires des séances de l'Académie des Sciences*, **29** (4): 67-73.

Milne Edwards, H.& Haime, J. 1850a. Introduction, Part I. Crag, London Clay, Cretaceous. *Monograph of the Palaeontographical Society*, **3** (2): i-lxxxv + 1-72 + pls 1-11.

Milne Edwards, H.& Haime, J. 1850b. Recherches sur les polypiers; cinquième mémoire. Monographie des Oculinides. *Annales des Sciences Naturelles. Paris, Zoölogie*, **III-13**: 63-110 + pls 3-4.

Milne Edwards, H.& Haime, J. 1850-1855. *A monograph of the British fossil corals.* Palaeontological Society, London: i-lxxxv + 1-322 + pls 1-72.

Milne Edwards, H.& Haime, J. 1851a. Recherches sur les polypiers; sixième mémoire. Monographie des Fongides. *Annales des Sciences Naturelles. Paris, Zoölogie*, **III-15** (2): 73-144.

Milne Edwards, H.& Haime, J. 1851b. Recherches sur les polypiers; septième mémoire. Monographie des Poritides. *Annales des Sciences Naturelles. Paris, Zoölogie*, **III-16**: 21-70 + pl 1.

Milne Edwards, H.& Haime, J. 1851c. Part II. Oolitic. *In:* Milne Edwards, H.& Haime, J. 1850-1855c. *A monograph of the British fossil corals.* Palaeontological Society, London , **5**: 73-146 + pls 12-30.

Milne Edwards, H.& Haime, J. 1851d. Monographie des Polypiers fossiles des terrains palæozoïques, précédée d'un tableau général de la classification des polypes. *Archives du Museum d'histoire naturelle publiées par les professeurs-administrateurs de cet établissement*, **5**: 194 pp.

Milne Edwards, H.& Haime, J. 1857. Classification et description des zoanthaires sclérodermes de la section des madréporaries apores. *In:* Milne Edwards, H. 1857-1860. *Histoire naturelle des coralliaires ou polypes propements dits.* Librairie encyclopédique de roret, Paris , **2**: 633 pp.

Mortensen, T. 1909. Die Echinoiden der deutschen Südpolar-Expedition 1901-1903. *Deutsche Südpolar-Exped. 1901-1903, Zoologie*, **11** (3): 1-113 + pls 1-19.

Moseley, H.N. 1881. *Report on certain hydroid, alcyonarian, and madreporarian corals procured during the voyage of H.M.S. Challenger during the years 1873-76. Part III. On the deep-sea Madreporaria.* .

Munier-Chalmas, E.C.P.A. 1892. Sur la possibilité d'admettre un dimorphisme sexuel chez le Ammonitidés. *Société Géologique de France, Comptes rendus, sér. 3*, **20**: 170-174 + clxx-clxxiv.

Müller, K.J. 1972. Heinrich Gerth †, 16.6.1884 — 2.8.1971. *Paläontologische Zeitschrift*, **46** (3/4): 113-120.

Niermann, H.Th. 1975. Polycoelidae aus dem Oberperm von Basleo auf Timor. *Münster. Forsch. Geol. Paläont.*, **37**: 131-225 + 23 pls.

Oken, L. 1815. *Lehrbuch der Naturgeschichte.* Bersasser, Jena: 842.

Oosterbaan, A.F.F. 1985. Neogene corals from Nias.: 21 pp.

Orbigny, A.D. d'. 1849. *Note sur des polypiers fossiles.* Victor Masson, Paris: 12 pp.

Ortmann, A. 1889. Beobachtungen an Steinkorallen von der Südküste Ceylons. *Zoologische Jahrbücher Abteilung für Systematik, Geographie und Biologie der Tiere*, **4**: 493-590 + pls 11-18.

Owen, R. 1843. *Lectures on the Comparative Anatomy and Physiology of the Invertebrate Animals Delivered at the Royal College of Surgeons in 1843 from Notes Taken by William White Cooper and Revised by Professor Owen.* Longman, Brown, Green and Longmans, London: >300 pp.

Pallas, P.S. 1766. *Elenchus zoophytorium sistens generum adumbrationes generaliores et specierum cognitarum succinctas descriptiones cum selectis auctores synonymis.* Petrum van Kleef, Hagæ-comitum: 451 pp.

Penecke, K.A. 1908a. Ueber eine neue Korallengattung aus der Permformation von Timor. *In:* Schuster, F. 1996a. Paleocene coral reefs and related facies associations, Kharga Oasis, Western Desert, Egypt. *Göttinger Arb. Geol. Paläont.*: 657-660.

Penecke, K.A. 1908b. Verbeekiella, nom. nov. (Synonymische Bemerkung.). *Zeitschrift der Deutschen geologischen Gesellschaft. B. Monatsberichte*, **60** (7): 187.

Popovici-Hatzeg, V. 1905. Les céphalopodes du Jurassique moyen du Mont Strunga (Massif de Bucegi, Roumanie) . *Mémoires de la Société Géologique de France, Paléontologie*, **13** (3) + mém. 35: 27 pp+pls.

Quelch, J.J. 1886. Report on the reef-corals collected by H.M.S. Challenger during the years 1873-76. *Report on the Scientific Results of the Voyage of the H.M.S. Challenger during the years 1873-76 (Zoology)*, **16**: 208 pp.

Quoy, J.R.C.& Gaimard, P. 1833. *Voyage de Découvertes de l'Astrolabe Exécuté par Ordre du Roi, Pendant les Années 1826-1827-1828-1829, Sous le Commandement de M. J. Dumont D'Urville.* J. Tastu, Paris: 390 pp.

Rauff, C.F.H. 1894. Palaeospongiologie. Zweiter Theil. *Palaeontographica*, **40**: 233-346 + pls 1-16.

Reuss, A.E. 1865. Zwei neue Anthozoen aus den Hallstatter Schichten. *Sitzungsberichte der Akademie der Wissenschaften Wien, mathematisch-naturwissenschaftliche Klasse*, **51**: 381-395.

Reuss, A.E. 1867. Über fossile Korallen der Insel Java. *Reise der Oesterreichischen Fregatte Novara um die Erde in den Jahren 1857, 1858, 1859. Geologischer Theil*, **2**: 165-185 + pls 1-3.

Reuss, A.E. 1890. Über zwei neue Anthozoen aus den Hallstätter Schichten. *Sitzungsberichte d. k. Akad. d. Wissensch., Math.-naturw. Kl. Abt. I*, **101**.

Richarz, P.S. 1910. Der geologische Bau von Kaiser Wilhelms-Land nach dem heutigen Stand des Wissens. *In:* Boehm, G. 1910. Geologische Mitteilungen aus dem Indo-Australischen Archipel. *Neues Jahrbuch für Mineralogie, Geologie und Paläontologie. Beil.*, **29**.

Rothpletz, A. 1892. Die Perm-Trias und Jura-Formation auf Timor und Rotti im indischen Archipel. *Palaeontographica Abt. B*, **39**.

Rutten, M.G. 1913. Eine neue Alveolinella von Ost-Borneo. *Sammlungen des Geologischen Reichs-Museums in Leiden. Serie 1, Beiträge zur Geologie Ost-Asiens und Australiens*, **9**: 221 + pl 14.

Rutten, L.M.R. 1917. Rhizopoda. *In:* Martin, K. 1917. Die altmiocäne Fauna des West-Progogebirges auf Java. Scaphopoda, Lamellibranchiata, Rhizopoda, Allgemeiner Theil. *Sammlungen des geologischen Reichs-Museums in Leiden. Neue Folge*, **2** (7): 276-277 + pl 5.

Schindewolf, O.H. 1940. "Konvergenzen" bei Korallen und bei ammoneen. *Fortschritte der Geologie und Palaeontologie*, **12** (41):389-492 + 1 pl.

Schindewolf, O.H. 1942. Zur Kenntnis der Polycoelien und Plerophyllen. Eine Studie über den Bau der "Tetrakorallen" und ihre Beziehungen zu den Madreporien. *Abhandlungen des Reichsamtes für Bodenforschung Neue Folge*, **204**: 324 pp + 36 pls.

Schlumberger, M.C. 1900. Sur deux espèces de *Lepidocyclina* des Indes nérlandaises. *Sammlungen des Geologischen Reichs-Museums in Leiden. Serie 1, Beiträge zur Geologie Ost-Asiens und Australiens*, **6**: 131 + pl 6.

Schouppé, A. von & Stacul, P. 1955. Die Genera *Verbeekiella* Penecke, *Timorphyllum* Gerth, *Wannerophyllum* n. gen., *Lophophyllidium* Grabau aus dem Perm von Timor. *Palaeontographica. Beitrage zur Naturgeschichte der Vorzeit. Supplement*, **4**: 5. Abt. Lief. 3: 95-196 + 2 pls.

Schouppé, A. von & Stacul, P. 1959. Säulchenlose Pterocorallia aus dem Perm von Indonesisch Timor (mit Ausnahme der Polycoelidae). Eine morphogenetetische und taxonomische Untersuchung. *Palaeontographica. Beitrage zur Naturgeschichte der Vorzeit. Supplement*, **4**: 5.Abt. 4 Lief. 197-359.

Schweigger, A.F. 1819. *Beobachtungen auf naturhistorischen Reisen. Anatomische-physiologische Untersuchungen über Corallen; nebst ein Anhange, Bemerkungen über die Bernstein enthaltend.*: 127 pp.

Semper, NN. 1872. über Generationswechsel bei Steinkorallen. *Zeitschrift für wissenschaftliche Zoologie*.

Sokolov, B.S. 1955. Tabuljaty paleozoja Evropejskoj casti SSSR. Vvedenie: Obscie voprosy sistematiki i istorii razvitija tabuljat (c characketeristikoj morphologiceeski blizkich grupp). *T. Vses neft. n. -i. geol. razv. in-ta (Nov. ser.)*, **85**: 527 pp + 90 pls.

Soshkina, E.D. 1928. Die unterpermischen Korallen vom westlichen Abhang des nördlichen Uralgebirges. *Soc. Natur. Moscou, Bull., n. S.*, **36**: Sect. géol. 6: 339-393 + pl 2.

Soshkina, E.D. 1936. New Species of the Artinskian (Lower Prmian) Corals from the Aktubinsk Region, South Ural. *Trans. Geol. Oil. Inst.*, **61**: 27-40.

Soshkina, E.D. 1941. -. *In:* Soshkina, E.D. , Dobroljubova, E.& Porfiriev, G. 1941. The Permian rugose corals of the European part of the U.S.S.R. *Paleont. U. S. S. R. (3)*.

Sowerby, J. 1814. *The mineral conchology of Great Britain, or coloured figures and descriptions of those remains of Testaceous animals.* Benjamin Merdith, London , **1**.

Spengler, NN. 1781. Nogle nyligen opdagede smaa snekkers beskrivelse. *Konglige dansk Videnskabelig Selskapets Skrifte, nye Samlung*, **1**: 365-373.

Stanton, T.W.& Vaughan, T.W. (eds.). 1920. The Fauna of the Cannonball Marine Member of the Lance Formation. *Geological Survey Professional Paper*, **128—A**: 1-66 + pls 1-10.

Steenstrup, J. 1849. Om slaegten *Isis* og de under *Isis hippuris*, Linn., sammenblandede Arter. *Vid. Medd. nat. For.*, **1849**: 66-75.

Stuckenberg, A.A. 1895. Korally i mshanki kamennougolnykh otlozheniy Urala i Timana. , 10(3):1-244, Saint Petersburg. . *Memoires du Comite Geologique*, **10** (3): 1-244.

Trautschold, H. 1886. ?. *Mémoires de la Société Impériale des Naturalistes de Moscou*, **15** (4): ?.

Ulrich, E.O. 1882. American Paleozoic Bryozoa. *Journal of the Cincinnati Society of Natural History*, **5**: 121-175 + 232-257.

Umbgrove, J.H.F. 1924. Report on Plistocene and Pliocene corals from Ceram. *In:* Schreuder, A. 1929. *Conodontes (Trogontherium)* and *Castor* from the Teglian Clay compared with the Castoridae from other localities. *Archives du Musée Teyler série III*: 22 pp + 2 pls+ 1 map.

Umbgrove, J.H.F. 1926. Neogene en Pleistocene Koralen van Sumatra. *Dienst van den Mijnbouw in Nederlandsch-Indië. Wetenschappelijke Mededeelingen*, **4**: 25-55 + 1 map.

Umbgrove, J.H.F. 1929a. Anthozoa van N. O. Borneo. *Dienst van den Mijnbouw in Nederlandsch-Indië. Wetenschappelijke Mededeelingen*, **9**: 45-87 + pls 1-5.

Umbgrove, J.H.F. 1929b. *Lepidocyclina transiens*, spec. nov. van Sumatra. *Dienst van den Mijnbouw in Nederlandsch-Indië. Wetenschappelijke Mededeelingen*, **9**: 109-113+1 pl.

Umbgrove, J.H.F. 1938. Corals from an elevated Marl of Talaud (East Indies). *Zoologische Mededelingen*, **20**: 263-274.

Umbgrove, J.H.F. 1939. Miocene corals from Flores (East Indies). *Leidsche Geologische Mededeelingen*, **11** (1): 62-67.

Umbgrove, J.H.F. 1942. Corals from asphalt deposits of the Island Buton (East-Indies). *Leidsche Geologische Mededeelingen*, **13**: 29-38 + pls 12-13.

Umbgrove, J.H.F. 1945. Corals from the Upper Miocene of Tjisande, Java. *Koninklijke Nederlandse Akademie van Wetenschappen te Amsterdam. Proceedings of the Section of Sciences*, **18**: 340-345.

Umbgrove, J.H.F. 1946a. Corals from a Lower Pliocene Patch Reef in Central Java. *Journal of Paleontology*, **20** (6): 521-542.

Umbgrove, J.H.F. 1946b. Corals from the Upper Kalibeng beds (Upper Pliocene) of Java. *Koninklijke Nederlandse Akademie van Wetenschappen te Amsterdam. Proceedings of the Section of Sciences*, **49**: 87-93.

Umbgrove, J.H.F. 1950. Corals from the Putjangan Beds (Lower Pleistocene) of Java. *Journal of Paleontology*, **24** (6): 637-651.

Vaughan, T.W. 1899. Some Cretaceous and Eocene corals from Jamaica. *In:* Hill, R.T. 1899. The geology and physical geography of Jamaica; study of a type of Antillean developement. Based upon surveys made for AlexanderAgassiz. *Bulletin of the Museum of Comparative Zoology*, **34** (4): 1-256.

Vaughan, T.W. 1932. Antillophyllia, a new coral generic name. *Journal of the Washington Academy of Sciences*, **22**: 506-510.

Verrill, A.E. 1864. List of the polyps and corals sent by the Museum of Comparative Zoology to other institutions in exchange, with annotations. *Bulletin of the Museum of Comparative Zoology*, **1**: 29-60.

Verrill, A.E. 1865. List of Polyps and corals sent by the Museum of Comparative Zoology to other institutions in exchange, with annotations. *Bulletin of the Museum of Comparative Zoology*, **1**: 29-60.

Verrill, A.E. 1866. Synopsis of the polyps and corals of the North Pacific Exploring Expedition, under Commodore C. Ringgold and Capt. John Rodgers, U.S.N., from 1853 to 1856. Collected by Dr. Wm. Stimpson, Naturalist to the Expedition. Part III. Madreporaria. *Communications of the Essex Institute*, **5** (2): 17-32.

Verrill, A.E. 1870. Notes on Radiata. Part 7. Geographical distribution of the corals and polyps of the west coast of America. *Transactions of the Connecticut Academy of Arts and Sciences*, **1**: 558-570.

Vessem, E.J. van. 1978. Study of Lepidocyclinidae from Southeast Asia, particularly from Java and Borneo. *Utrecht Micropaleontological Bulletins*, **19**: 1-163.

Vinassa de Regny, P.E. 1915. Triadische Algen, Spongien, Anthozoen und Bryozoen aus Timor. *Paläontologie von Timor*, **4** (8): 75-118 + pls 63(1)-72(10).

Visser, W.A.& Hermes, J.J. (eds.). 1962. Geological results of the exploration for oil in Netherlands New Guinea carried out by the 'Nederlandsche Nieuw Guinee Petroleum Maatschappij' 1935-1960. *Verhandelingen van het Koninklijk Nederlands geologisch mijnbouwkundig genootschap, Geologische serie*, **20**: xx pp + xx enclosures.

Waagen, W. 1869. Die Fromenreihe des Ammonites subradiatus. *Geogn.-Paläont. Beitr.*, **2** (2): 181-256 + pls 16-20.

Waagen, W.& Wentzel, J. 1886. Salt-Range Fossils, Part 6, Productus Limestone Fossils, Coelenterata. *Palaeontologia Indica , serie 13*, **1**: 835-924.

Waagen, W.& Wentzel, J. 1887. Salt-Range fossils, Part 7, Coelenterata, Amorphozoa, Protozoa. *Palaeontologia Indica , serie 13*, **1**: 925-998.

Wells, J.W. 1937. New genera of Mesozoic and Cenozoic corals. *Journal of Paleontology*, **11** (1): 73-77.

Wells, J.W. 1956. Scleractinia. *In:* Bayer, F.M. , Boschma, H. , Harrington, H.J. , Hill, D. , Hyman, L.H. , Lecompte, M. , Montanaro-Gallitelli, E. , Moore, R.C. , Stumm, E.C.& Wells, J.W. 1956. Part F. Coelenterata. *In:* Moore, R.C. (ed.). 1953-1969. *Treatise on Invertebrate Paleontology.* The University of Kansas Press and The Geological Society of America, **F**: 498 pp.

Wells, J.W. 1964. Fossil Corals from Eniwetok Atoll. *Geological Survey Professional Paper*, **260DD**: 1101-1111 + pls 296-300.

Westermann, G.E.G.& Getty, T.A. 1970. New Middle Jurassic Ammonitina from New Guinea. *Bulletins of American Paleontology*, **57** (256): 231-301 + pls 48-62.

Wood, S.V. 1844. Descriptive catalogue of the Zoophytes from the Crag. *Annals and Magazine of Natural History*, **13** (81): 10-21.

Yabe, H.& Eguchi, M. 1935. *Oxyphyllia*, a new genus of Hexacorals . *Proceedings of the Imperial Academy, Tokyo*, **11** (9): ?pp.

Yabe, H.& Sugiyama, T. 1932. Notes on three new corals from Japan. *Japanese Journal of Geology and Geography*, **9** (1-2): ?pp.

Of the following author(s)/year of publication combinations no references could be traced during this project: Brüggeman (1877), Cuvier (1797), Duncan (1870), Eichwald (1830), Esper (1794), Esper (1795), Fischer von Waldheim (1810), Gardiner (1906), Grabau (1932), Grant (1836), Gray (1851), Hall (1852), Herklots (18??), Lesson (1831), Lindström (1873), Marenzeller (1908), McLearn (1927), Nicholson & Etheridge (1879), Rafinesque & Clifford (1820), Reis (1890), Rutten (1912), Rutten (1914), Seguensa (1873) and Thomson & Nicholson (1876).

**List of fossil localities**

| | |
|---|---|
| "Durchbruch des Idane Gawo" | Gawo Valley, Nias, Indonesia, Asia. Taxa retrieved from this locality: *Cyphastraea niasensis*, *Echinopora porosa* and *Echinopora lamellosa*. |
| "Tal des Gomo, Nebenfluss des Soesoewa" | Valley. Nias, Indonesia, Asia. Taxa retrieved from this locality: *Echinopora porosa* and *Echinopora lamellosa*. |
| 383 m above sealevel near Noil-Noni and Pene | Outcrop. Between Noil Noni And Pene, Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: *Isis polyacantha*. |
| 50 m north of "W of Mount Bereng" | Outcrop. Java, Indonesia, Asia. West of Mount Bereng=loc. 59 of Cosijn and loc. 297 of Dienst Mijnwezen on sheet 110A of the geological map of Java. This is loc. 60 of Cosijn. Also called "NW of G. Bareng". Taxa retrieved from this locality: *Pericosmus parvus*, *Flabellum rubrum* and *Endopachys grayi*. |

| | |
|---|---|
| 7 km northwest of Cerro Picun Leufu | Neuquen, Argentina. Taxon retrieved from this locality: *Convexastrea weaveri*. |
| Ajermati | Kupang, Nussa Tenggara Timur, Indonesia, Asia. |
| Ambon | Island. Indonesia, Asia. |
| Apna | Village. Nussa Tenggara Timur, Indonesia, Asia. Taxa retrieved from this locality: *Pentaphyllum (Tachylasma) timorense* and *Timorphyllum wanneri*. |
| Aramarai 1542 b,c | . |
| Arroyo Covunco | Neuquen, Argentina. Taxon retrieved from this locality: *Columastrea antiqua*. |
| Basleo | Village. Nussa Tenggara Timur, Indonesia, Asia. about 10 to 20 miles NE of Niki-Niki. Between Niki-Niki and Noil Fatu. Also spelled as Besleo, Wesleo or Wisly. Also Noil Tonini could be the same as Basleo?. Taxa retrieved from this locality: *Basleophyllum pachyderma*, *Duplophyllum (Euryphyllum) robustum*, *Pemmatites timorensis*, *Palaeojerea molengraaffi*, *Caryospongia? dyadica*, *Palaeoderma tubulosa*, *Aulacospongia bulbosa*, *Timorella* sp., *Basleophyllum brouweri*, *Basleophyllum incertum*, *Duplophyllum (Euryphyllum) cainodon*, *Duplophyllum (Duplophyllum) calyculatum*, *Duplophyllum (Duplophyllum) zaphrentoides*, *Zaphrenthis phillipsi*, *Basleophyllum indicum*, *Caninia arundinacea*, *Pentaphyllum (Tachylasma) beyrichi* var. *tabulatum*, *Pleramplexus similis*, *Plerophyllum bitaunense*, *Pentaphyllum (Tachylasma) timorense* var. *calyculat*, *Pentaphyllum (Tachylasma) timorense* var. *cylindric*, *Pentaphyllum (Tachylasma) timorense* var. *irregular*, *Endothecium apertum*, *Endothecium decipiens*, *Polycoelia (Polycoelia) angusta*, *Pentaphyllum (Tachylasma) gerthi*, *Spineria (Cystina) uniformis*, *Spineria (Spineria) diplochone*, *Spineria (Cystina) ultima*, *Endamplexus (Endamplexus) dentatus*, *Prosmilia compressa*, *Prosmilia cyathophylloides*, *Ufimia radiciformis radiciformis*, *Ufimia radiciformis*, *Wannerophyllum cristatum*, *Verbeekiella australis*, *Verbeekiella australis* forma *elongata*, *Favosites permica*, *Favosites relicta*, *Pseudofavosites stylifer*, *Michelinia indica*, *Trachypsammia dendroides*, *Aulopora timorica*, *Cladochonus magnus*, *Monilopora beecheri*, *Aulohelia irregularis*, *Palaeacis regularis*, *Palaeacis tubifer*, *Heterocoenites variabilis*, *Pleramplexus dissimilis*, *Amplexocarinia jonkeri*, *Pleramplexus grandis*, *Pentaphyllum (Tachylasma) beyrichi beyrichi*, *Pentaphyllum (Tachylasma) timorense*, *Pentaphyllum (Tachylasma) beyrichi* var. *elongatum*, *Pentaphyllum (Tachylasma) beyrichi*, *Pentaphyllum (Tachylasma) makrodeuterum*, *Pentaphyllum (Tachylasma) densum*, *Pentaphyllum (Tachylasma) isoseptatum*, *Stylonites porosus*, *Gertholites lobatus*, *Ufimia radiciformis defecta*, *Timorphyllum wanneri*, *Timorphyllum wanneri wanneri*, *Polycoelia (Polycoelia) tenuis*, *Pentaphyllum (Tachylasma) timorense typicum*, *Plerophyllum radiciforme*, *Schizophorites dubiosus*, *Zaphrenthis leptocoma*, *Stylophora pistillata* forma *elongata*, *Paralleynia leptoseptata*, *Dibunophyllum rothpletzi*, *Dibunophyllum tubulosum*, *Amplexocarinia* sp., *Amplexocarinia abichi*, *Amplexocarinia geyeri*, *Timorphyllum wanneri variabile*, *Gertholites monstrosa*, *Aulohelia laevis*, *Carcinophyllum wichmanni*, *Heterocoenites crassus*, *Monilopora crassa*, *Gertholites curvatus*, *Pseudofavosites stylifer septosa*, *Striatopora* sp. and *Timorella permica*. |
| Basleo A | Basleo, Nussa Tenggara Timur, Indonesia, Asia. On one label is stated: Wesleo A. Toenioen Ennò. Fatoe Pisa. Midden Timor. Taxa retrieved from this locality: *Basleophyllum pachyderma* and *Pentaphyllum (Tachylasma) beyrichi* var. *elongatum*. |
| Batavia Borehole IV: 130-134 m depth | Part Of Borehole. Batavia Borehole Iv, Java, Indonesia, Asia. Taxa retrieved from this locality: *Chondrocidaris sundaica* and *Cidaris* sp.. |
| Batu-Hidup Anticline | Anticline. Kalimantan Timur, Indonesia, Asia. Taxa retrieved from this locality: *Coelocoenia torulosa* and *Cyphastraea tubifera*. |
| Baung | Area. Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: *Pleurechinus bothryoides*. |
| Baung | City. Nussa Tenggara Timur, Indonesia, Asia. |
| Beberkiri river | Java, Indonesia, Asia. T: "südlich von Njaliendung, im Unterlaufe des Flusses Beberkiri, im Distrikte Djampangtengah, der Abtheilung Sukabumi,". Taxa retrieved from this locality: *Deltocyathus australis*, *Heteropsammia ovalis*, *Heteropsammia cochlea*, *Paracyathus procumbens*, *Paracyathus javana*, *Chondrocidaris sundaica* and *Cidaris* sp.. |
| Bitauni | Village. Nussa Tenggara Timur, Indonesia, Asia. Taxa retrieved from this locality: *Hindia permica*, *Amplexocarinia bitauniensis*, *Trachypsammia dendroides*, *Wannerophyllum cristatum*, *Pentaphyllum (Tachylasma) timorense*, *Plerophyllum bitaunense*, *Dibunophyllum tubulosum*, |

| | |
|---|---|
| | *Wannerophyllum tubulosum*, *Timorphyllum wanneri*, *Hindia permica* var. *bitaoeniensis* and *Hindia wanneri*. |
| Biwak Putain | Encampment. Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: *Lonsdaleiastraea vinassai*. |
| Bod Karbu in northwest Himalaya | Himalaya, Asia. probably Bod Kharbu in Jammu and Kashmir state in India. Taxon retrieved from this locality: *Chaetetes deterrai*. |
| Bonleo-Neneas | Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: *Wentzelella timorica*. |
| Branch of River Sumbergirang | River. Java, Indonesia, Asia. locatie MNW 113, on sheet 110A. Taxon retrieved from this locality: *Endopachys grayi*. |
| Cadasngampar | Java, Indonesia, Asia. "Tsjadasngampar am Tji Longan". Taxa retrieved from this locality: *Acropora fennemai* and *Synaraea javana*. |
| Catan-Lil | Neuquen, Argentina. Taxon retrieved from this locality: *Cyathophora decamera*. |
| Ciangsana | Spring. Preanger, Java, Indonesia, Asia. "Tji Angsana, Res. Preangerrregentschap". Taxa retrieved from this locality: *Seriatopora irregularis*, *Seriatopora ornata*, *Acropora duncani* and *Synaraea javana*. |
| Cibeber | Spring. Preanger, Java, Indonesia, Asia. "Tji Beber", "Aus der Gegend von Njaliendung, dem Bette des Tji Beber kiri". Taxa retrieved from this locality: *Coeloria inaequiseptata*, *Seriatopora irregularis*, *Seriatopora ornata* and *Synaraea javana*. |
| Cibining | Java, Indonesia, Asia. Taxon retrieved from this locality: *Galaxea junghuhni*. |
| Ciburial | Spring. Preanger, Java, Indonesia, Asia. Dutch spelling: "Tji Boerial", "Coll. Verbeek 11 IV, Java, Preanger", "vom Zusammenflusse des Tji Burial und Tji Tangkil". Taxa retrieved from this locality: *Heterocyathus sandalinus*, *Galaxea junghuhni*, *Fungia fragilis* forma *hemispherica* and *Javanoseris sinuata*. |
| Ciguha | Java, Indonesia, Asia. "Tji Goeha", "Tjiguha". Taxon retrieved from this locality: *Dictyaraea micrantha* var. *spinosa*. |
| Cisande | State. Cheribon, Java, Indonesia, Asia. North of Lurahgung. Taxa retrieved from this locality: *Galaxea elegantissima*, *Favites pentagona tenuis*, *Coelastraea rectangularis*, *Tubipora* sp. and *Isis* sp.. |
| Citalahab | Java, Indonesia, Asia. L: "Tji Talahab, Preanger Reg." T: "Tji Talahab, nördlich von Njaliendung" (several localities fit this description). Taxa retrieved from this locality: *Favites borneensis*, *Cyphastraea gemmulifera*, *Seriatopora irregularis*, *Seriatopora ornata*, *Montipora dubiosa* and *Dictyaraea micrantha* var. *spinosa*. |
| Dessa Garung | Village. Lamongan, Java, Indonesia, Asia. Taxa retrieved from this locality: *Antillophyllia grandiflora*, *Balanophyllia variabilis*, *Flabellum variabile* forma *alta* and *Dendrophyllia rutteni*. |
| Dessa Gesing | Village. Djombang, Java, Indonesia, Asia. Taxa retrieved from this locality: *Balanophyllia variabilis* and *Flabellum variabile* forma *alta*. |
| Dessa Sahar | Village. Lamongan, Java, Indonesia, Asia. Taxa retrieved from this locality: *Flabellum variabile* forma *alta*, *Balanophyllia variabilis* and *Balanophyllia oppenheimi*. |
| Djapara Border Mountains | Mountain Range. Java, Indonesia, Asia. Taxon retrieved from this locality: *Breynia sundaica*. |
| Fatu Bena | Nussa Tenggara Timur, Indonesia, Asia. Taxa retrieved from this locality: *Favosites permica*, *Heterocoenites variabilis*, *Heterocoenites crassus*, *Palaeacis regularis*, *Palaeacis tubifer*, *Gertholites curvatus*, *Gertholites* sp., *Pachypora jabiensis* and *Trachypsammia dendroides*. |
| Fatu Inu | Nussa Tenggara Timur, Indonesia, Asia. Loc. 31 van Snellius exp.?. Taxa retrieved from this locality: *Pseudofavosites stylifer* and *Aulohelia laevis*. |
| Fatu Nemassi | Mountain. Nussa Tenggara Timur, Indonesia, Asia. Taxa retrieved from this locality: *Montlivaltia timorica*, *Stylophyllopsis timoricus*, *Pachypora oligopora* and *Montlivaltia gigas*. |
| Fatu Nikat | Nussa Tenggara Timur, Indonesia, Asia. Also named Fatoe Nilat. Taxon retrieved from this locality: *Pentaphyllum (Tachylasma) timorense*. |
| Fatu Oinino | Nussa Tenggara Timur, Indonesia, Asia. on the road to Nenas in "Moetisgebirge". |
| Fatu Saaidjan along path from Bonleo to Kapan | Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: *Thecosmilia fenestrata* var. *multiseptata*. |

| | |
|---|---|
| Gle Miraphon | Atjeh, Sumatra. Taxon retrieved from this locality: *Schizaster* sp.. |
| Grissee borehole I: 335-370 m depth | Part Of Borehole. Grissee Borehole I, Java, Indonesia, Asia. Taxa retrieved from this locality: *Chondrocidaris sundaica* and *Cidaris* sp.. |
| Gunung Batu at Sungai Sekurau | Hill. Kalimantan Timur, Indonesia, Asia. Taxon retrieved from this locality: *Anisocoenia variabilis*. |
| Gunung Batu-Anticline | Anticline. Sungai Gelingseh, Kalimantan Timur, Indonesia, Asia. The Gunung Batu-Anticline (loc. 34-36 in 1549in citaat>) is in the source area of the Sungai Gelingseh, which is name giver to the Gelingseh-beds, an unit with numerous fossil bearing beds (see e.g. sketch map in Beets (1986a). "Gunung Batu at Sungai Sekurau" (loc. 20 in 1549in citaat>) Rutten coll. 49., which is the same as Gunung Batu Anticline loc. 34. There is no mention of a Gunung Batu in the upper course of the Sungai Sekurau and combined with the same sample number (and part of locality) it is assumed that loc.20=loc. 34-36. Beets (1986a) gives a sketch elucidating the relative position of 5 samples from this area. A: source area of Sungai Gelingseh. This indication is also used by Van Vessem for his sample Rutten G457. This sample is N10 in age according to Van Vessem (1978). The Gunung Batu Anticline samples probably are taken from the same, or very close to our samples. B-Bb: The localitiy 'Gunung Gelingseh' is interpreted to be indentical to the B-Bb sample discussed by Beets (1986a). Beets (1986b) indicates that Rutten (1914) and Martin (1914) described material from this locality, as did Gerth (1923). Both Rutten (1914) and Martin (1914) mentioned the two layers, the occurrence of corals and the difference in sampling between the two layers. It is most likely that the large benthic foraminifera were retrieved from the same samples as the corals, and that it is Tf1. . Taxa retrieved from this locality: *Placosmilia* sp., *Coelocoenia torulosa*, *Antillia orientalis* and *Amphelia alternans*. |
| Gunung Buleud | Hill. Preanger, Java, Indonesia, Asia. Taxa retrieved from this locality: *Coeloria dubia*, *Seriatopora irregularis* and *Seriatopora ornata*. |
| Gunung Butak | Hill. Java, Indonesia, Asia. T: "aus der Gegend des Gunung Butak, in Rembang". Taxa retrieved from this locality: *Pattalophyllia verbeeki* and *Cynaria lacrimalis*. |
| Gunung Gamping near Tegálsari | Hill. Nanggulan, Java, Indonesia, Asia. Taxa retrieved from this locality: *Phyllacanthus dubius sundaica* and *Scutella decagona*. |
| Gunung Kelier | Hill. Java, Indonesia, Asia. Taxa retrieved from this locality: *Laganum multiforme*, *Schizaster progoensis* and *Schizaster subrhomboidalis*. |
| Gunung Linggapadang | Hill. Java, Indonesia, Asia. near Prupuk and/or near Magasari, Tegal. Taxa retrieved from this locality: *Fungia inaequicostata*, *Fungia pseudoechinata*, *Halomitra vetusta*, *Orbicella linggapadangensis*, *Cyphastraea microphthalma*, *Hydnophora grandis*, *Platygyra phrygia*, *Coeloria daedalea*, *Coeloria rustica*, *Metastraea aegyptorum*, *Goniastrea simplicitexta*, *Favites pentagona tenuis*, *Favites abdita*, *Favia* sp., *Galaxea elegantissima*, *Galaxea fascicularis*, *Leptastrea purpurea*, *Hydnophora tenella*, *Hydnophora* sp., *Hydnophora solidior*, *Merulina ampliata*, *Symphyllia recta*, *Echinopora gemmacea parva*, *Echinopora porosa*, *Mycedium tubifex*, *Oxyphyllia javana*, *Fungia granulicostata*, *Fungia concinna*, *Fungia distorta*, *Fungia subpaumotensis*, *Fungia praecursor*, *Pachyseris curvata*, *Cyathoseris lophiophora*, *Favia speciosa*, *Cyathoseris crassilamellata*, *Pavonaraea irregularis*, *Goniopora tenuidens*, *Alveopora polyacantha* and *Coscinaraea columna*. |
| Gunung Mlendong near Kari Orang | Hill. Kalimantan Timur, Indonesia, Asia. Taxon retrieved from this locality: *Odontocyathus armatus*. |
| Gunung Modo | Hill. Lamongan, Java, Indonesia, Asia. South of Pamodan. Taxa retrieved from this locality: *Antillophyllia grandiflora* and *Porites deshayesiana*. |
| Gunung Runtu | Hill. Kalimantan Timur, Indonesia, Asia. The Rutten samples 150-152 come from this locality. On the map in Gerth (1923), Gunung Runtu is indicated even higher up river than Gunung Badupar. No hill of this name is shown on the map of Felix (1921). The age of the sample is indicated as 'altmiozän' by Gerth (1923). This would imply that the sample is taken in the west flank of the anticline. The age is indicated as Tf1 in the RGM-database. Taxon retrieved from this locality: *Ceratophyllia gigantea*. |
| Gunung Spolong | Hill. West Progo Mountains, Jogjakarta, Java, Indonesia, Asia. T: "G. Spolong, Res. Djokjakarta" (not found in gazetteers). Taxa retrieved from this locality: *Petrophylliella* |

| | |
|---|---|
| | *javana*, *Lithophyllia spinosa*, *Scolymia vitiensis*, *Hydnophyllia martini*, *Confusastraraea obsoleta*, *Sismondia javana*, *Schizaster progoensis*, *Schizaster subrhomboidalis*, *Eupatagus martini*, *Eupatagus affinis*, *Clypeaster* sp., *Clypeaster (Stolonoclypeus) humilis*, *Flosculinella globulosa* and *Cynarina*. |
| Gunung Tegiring near Sapulu | Hill. Madura, Indonesia, Asia. Taxa retrieved from this locality: *Coelopleuris schneideri*, *Opechinus madurae*, *Pleurechinus javanus*, *Pseudopechinus percultus oligoporus*, *Eupatagus (Brissoides) pulchella*, *Breynia paucituberculata*, *Phyllacanthus dubius*, *Opechinus collignoni*, *Opechinus cheribonensis* and *Desmechinus erbi*. |
| Hatu Dame | Timor-leste, Asia. Taxa retrieved from this locality: *Dictyopora incrustans* and *Plerophyllum weberi*. |
| Haute Saone | France. Taxon retrieved from this locality: *Stylohelia mamillata*. |
| Headwaters of Wati River | River. Jamur-aramasa Area, Papua, Indonesia, Asia. Taxon retrieved from this locality: *Blanfordiceras novaguinense*. |
| Hilidraonolasi | Sju Ani, Nias, Indonesia, Asia. "Oberlauf des Sjoe Ani". Taxon retrieved from this locality: *Dendracis* sp.. |
| Hügel near Sekurau | Hill. Kalimantan Timur, Indonesia, Asia. Taxa retrieved from this locality: *Favites borneensis*, *Orbicella felixi*, *Phyllacanthus imperialis javana* and *Favites flexuosus*. |
| Idane Gawo | Nias, Indonesia, Asia. Taxa retrieved from this locality: *Oulophyllia angusta* and *Platygyra lamellina*. |
| Java | Island. Indonesia, Asia. Taxa retrieved from this locality: *Laganum boschi*, *Cidaris aculeata*, *Pliolampas (Tristomanthus) elevatus*, *Desmechinus erbi*, *Cycloclypeus communis* and *Cycloclypeus neglectus*. |
| Kabasian | River. Kalimantan Timur, Indonesia, Asia. 40 km west of Sangkoelirang bay. Taxa retrieved from this locality: *Fungophyllia monstrosa*, *Favites pauciseptata*, *Hydnophyllia malayica*, *Phyllangia imbricata*, *Phyllangia divaricata*, *Fungia borneensis*, *Trochoseris florescens*, *Leptoseris floriformis*, *Echinophyllia robusta*, *Pachyseris murchisoni*, *Pachyseris distans*, *Goniopora planulata* and *Turbinaria tenuis*. |
| Kali Gede near Bendo | River. West Progo Mountains, Jogjakarta, Java, Indonesia, Asia. Not far from Sibendo cave. |
| Kali Kemejing | River. Java, Indonesia, Asia. L: "Kali Kemedjing, West Progogebergte" (not found in gazetteers), probably in or near Banyumudal. Taxon retrieved from this locality: *Schizaster progoensis*. |
| Kali Mati near Kupang | River. Nussa Tenggara Timur, Indonesia, Asia. Sometimes also caled Ajer Mati. Taxa retrieved from this locality: *Lithostrotion* sp., *Timorphyllum*, *Timorphyllum wanneri*, *Amplexus beyrichi*, *Amplexocarinia* sp., *Favosites parasitica*, *Stylophora digitata*, *Paracaninia* sp., *Lophophyllidium* sp., *Verbeekiella permica*, *Timorella permica*, *Verbeekiella australis* forma *elongata*, *Pentaphyllum (Tachylasma) beyrichi* and *Timorphyllum wanneri* var. *ajermatiensis*. |
| Kali Puru | River. Java, Indonesia, Asia. "Kali Puru unterhalb N2, Res. Djokjakarta", Kali Puru, Kalipuru, Kalipoeroe or Cipuru not found in gazetteers in Java. Martin wrote on the label of RGM.11400 that it was "innerhalb der Mündung des Kali Songo". Taxon retrieved from this locality: *Bathyactis eocaenica*. |
| Kali Tjemoro | River. Java, Indonesia, Asia. Kali Tjemoro is south of Sangiran in "Abteilung" Bogolali in "Residenz" Solo. On one lable of RGM 3768 is stated: "Sangiran distr. Kalioso Res. Soerakarta", while another lable of the same specimen displays "Kali Tjemoro". Taxon retrieved from this locality: *Heterocyathus sandalinus*. |
| Kampong Djunggrangan | Village. Java, Indonesia, Asia. Taxa retrieved from this locality: *Petrophylliella javana*, *Fungophyllia explanata* and *Confusastraraea obsoleta*. |
| Kampong Fatukan close to Lahurus | Village. Nussa Tenggara Timur, Indonesia, Asia. Taxa retrieved from this locality: *Isis polyacantha* and *Stephanoseris carthausi*. |
| Kampong Onodohalawa | Village. Mola Valley, Nias, Indonesia, Asia. Taxa retrieved from this locality: *Madracis myriaster*, *Echinopora porosa* and *Echinopora lamellosa*. |
| Kamundan | River. Papua, Indonesia, Asia. Taxa retrieved from this locality: *Amplexocarinia bitauniensis* and *Gertholites curvatus*. |
| Kari Orang | River. Borneo, Indonesia, Asia. Fieldnumbers of the material in Naturalis are RU 144, RU 150 (probably samples collected by LM Rutten), WTK 311 and 312 (probably collected by Witkamp) and SMT S57 (probably collected by Schmidt). Beets (1983) and Van Vessem |

| | |
|---|---|
| | (1978) provided locality maps.<br>The locality 'Borneo Kali Orang' has one indication in the lithostrat field in the RGM-database: "BALIKPAPAN LAYERS U. GELINGSEH BEDS TERTIARY F2-3", and fieldnumbers RU 144 and RU 150. Van Vessem (1978) restudied the lepidocyclinids from the sample KO 143 and KO 145, finding a N10 age for KO145 and a N12-N14, probably N14 age respectively. These samples have a different sample number than the coral samples Gerth (1923b) had at hand, and these ages can thus not be assigned to those samples. The second 'Kari Orang' locality has another indication in the RGM-database: "GUNUNG MLENDONG NEAR KARI ORANG BORNEO" and bear the Witkamp and Schmidt fieldnumbers. The exact locality is probably well shown on the map in Beets (1983). Van Vessem's sample KO 82(2) is probably placed on the wrong side of the river, as Rutten gives no exact locality. The large benthic foraminifera found by Van Vessem (1978) would not contradict a Tf2 age, and are largely the same as the species I found in the RGM residu of SMT S57. The occurrence of *Orbiculina* confines this sample to N9 or younger. Furthermore most large benthic foraminifera fit in Van Vessem (1978) N9 or N10. This compares with the lowermost part of Tf2.<br>. |
| Kasliu | Nussa Tenggara Timur, Indonesia, Asia. |
| Kembang Sokkoh | River. West Progo Mountains, Jogjakarta, Java, Indonesia, Asia. Probably same as Kembangsokah in Banyumudal. Taxa retrieved from this locality: *Petrophylliella javana*, *Confusastraraea obsoleta*, *Actinastrea minutissima*, *Stylophora sokkohensis*, *Stylophora digitata*, *Diplohelia malayica*, *Orbiculina adunca* and *Lithophyllia spinosa*. |
| Koaféu near Baung | Nussa Tenggara Timur, Indonesia, Asia. |
| Kr. Lambajong | River. Sawang, Sumatra. Sometimes also cited as Kr. Labajong. Taxon retrieved from this locality: *Stephanoseris carthausi*. |
| Lampong | District. Sumatra. |
| Mandeo | Nussa Tenggara Timur, Indonesia, Asia. Taxa retrieved from this locality: *Favosites* sp., *Pentaphyllum (Tachylasma) timorense*, *Dibunophyllum rothpletzi*, *Dibunophyllum tubulosum* and *Timorphyllum wanneri*. |
| Matanibaki | Nussa Tenggara Timur, Indonesia, Asia. |
| Maubesi | Village. Nussa Tenggara Timur, Indonesia, Asia. |
| Modjokerto | City. Java, Indonesia, Asia. Area where Cosijn collected his material. Kendeng Hills. Taxon retrieved from this locality: *Echinodiscus lesueuri*. |
| Mot | Amarassi, Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: *Virgula? malayica*. |
| Mota Talau near Atambua | Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: *Dasyphyllia brevicaulis*. |
| Muara Kobun, Uferabgang am Tongkang, Sangkulirang | Rivermouth. Kalimantan Timur, Indonesia, Asia. Taxon retrieved from this locality: *Acanthocyathus malayicus*. |
| Murung Brunei at Sungai Tabalong | River. Amuntai, Borneo, Indonesia, Asia. Taxa retrieved from this locality: *Hydnophora solidior* and *Leptoria concentrica*. |
| Nabu near Fatu Tassu | Nussa Tenggara Timur, Indonesia, Asia. Naboe bei Fatoe Tassoe. |
| Nefotassi | Timor-leste, Asia. Sometimes also written as Nifoetassi or Nifutassi. Could be same as Bitauni or part of it?. Taxa retrieved from this locality: *Phacellopegma praemorsa*, *Palaeophyma piriformis*, *Palaeophyma cucumeriformis*, *Palaeophyma claviger*, *Palaeophyma* sp., *Mastophyma jonkeri*, *Mastophyma globosa*, *Pycnospongia timorensis*, *Amplexocarinia abichi*, *Spineria (Cystina) ultima* and *Spineria (Cystina) uniformis*. |
| Negri Weluli | Village. Lamakane, Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: *Lophophyllidium spinosum*. |
| Neighbourhood of Awaay | Nias, Indonesia, Asia. Taxa retrieved from this locality: *Cynarina* sp. and *Antillia turbinata*. |

| | |
|---|---|
| Netu Kot | Nussa Tenggara Timur, Indonesia, Asia. Taxa retrieved from this locality: *Zaphrenthis triadica* and *Duplophyllum (Euryphyllum) robustum*. |
| Netu Pantukak | Nussa Tenggara Timur, Indonesia, Asia. Loc. 24 of Snellius I expedition?. Taxa retrieved from this locality: *Pseudofavosites stylifer*, *Gertholites* sp. and *Trachypsammia dendroides*. |
| Neuquen | Province. Argentina. Taxon retrieved from this locality: *Astrocoenia colliculosa*. |
| Ngampel | Village. Java, Indonesia, Asia. T: "Ngampel in Rembang". Taxa retrieved from this locality: *Heterocyathus rembangensis*, *Lepidocyclina (Eulepidina) papulifera*, *Cycloclypeus annulatus*, *Lepidocyclina (Eulepidina) limbata*, *Lepidocyclina (Eulepidina) radiata* and *Cycloclypeus communis*. |
| Ngandang | Village. Java, Indonesia, Asia. Taxa retrieved from this locality: *Lepidocyclina (Eulepidina) euglabra*, *Lepidocyclina (Nephrolepidina) martini*, *Lepidocyclina (Eulepidina) rutteni* and *Cycloclypeus annulatus*. |
| Ngembak | Village. Semarang, Java, Indonesia, Asia. L: "Ngembak, Res. Semarang" (No Ngembak in Gazetteers). |
| Ngembak (boring) | Boring. Ngembak, Semarang, Java, Indonesia, Asia. "im westen von Poerwodadi". |
| Ngembak borehole B | Boring. Ngembak, Semarang, Java, Indonesia, Asia. "im Westen von Poerwodadi, im gleichnamigen Districht der Abtl. Grobogan, Res. Semarang". The corals in the Ngembak core are derived from two levels, at 60-70m depth and at 110-120m depth. Only part of the corals has been labelled as to the depth at which they have been found. Van Dijk (18**) en Martin (1919) correlate these horizons with the Tjilanang and Njalindoeng beds, which are of Tf2-Tf3 age. However, the large benthic foraminifera found in the two levels indicate an older age: *Lepidocyclina (Nephrolepidina) subradiata* is typical for the Rembang beds. The occurrence of *Miogypsina* with *Lepidocyclina (Nephrolepidina)* and *Austrotrillina* indicate an Tf1 age for the 110m level. The 60m contains *Flosculinella bontangensis*, together with *Lepidocyclina (Nephrolepidina) martini*. This assemblage is most probably of Tf2, but possibly of late Tf1 age. It is save to conclude that the corals from this well are Tf1-2 in age. Those with a more precise level on the label can be placed in a narrower time interval. . Taxa retrieved from this locality: *Sphenotrochus viola*, *Tropidocyathus nudus*, *Caryophyllia clavus* var. *javana*, *Heterocyathus parasiticus*, *Flabellum irregulare*, *Flabellum stokesi*, *Antillia orientalis*, *Solenastraea semarangensis*, *Echinopora gemmacea crassatina*, *Pachyseris vandijki*, *Pachyseris curvata*, *Pavonaraea javana*, *Balanophyllia complanata*, *Astreopora hochstetteri*, *Phyllacanthus imperialis javana*, *Chondrocidaris sundaica*, *Cidaris* sp., *Stylocidaris reini*, *Cidaris papillata*, *Eupatagus* sp. and *Cidaris aculeata*. |
| Nifur Muti | Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: *Trachypsammia dendroides*. |
| Noil Afaik between Bobo and Nura | River. Amanubang, Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: *Flabellum insulindae*. |
| Noil Asi | Nussa Tenggara Timur, Indonesia, Asia. |
| Noil Boewan on the road to Niki-Niki | River. Nussa Tenggara Timur, Indonesia, Asia. |
| Noil Ekad | Nussa Tenggara Timur, Indonesia, Asia. |
| Noil Enfoat between Lollo and Wekmurak | River. Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: *Trochocyathus laterocristatus*. |
| Noil Fatu | River. Nussa Tenggara Timur, Indonesia, Asia. Taxa retrieved from this locality: *Aulohelia irregularis*, *Aulohelia* and Crinoidea. |
| Noil Nalien | Timor-leste, Asia. near Kampong Tanien, could also be called: Na Naliem, near kampong Tamien, close to the "slikvulkanen" (see label of RGM.525640). Taxa retrieved from this locality: *Amplexocarinia naliensis*, *Dibunophyllum tubulosum* and *Timorphyllum wanneri variabile*. |
| Noil Nunu | River. Nussa Tenggara Timur, Indonesia, Asia. Also recorded as "Noil Noenoe Sono" (THDKA.16072). Taxon retrieved from this locality: *Lonsdaleia molengraaffi*. |
| Noil Simaam | Nussa Tenggara Timur, Indonesia, Asia. |

| | |
|---|---|
| Noil Soesoe along the road from Tjamplong to Bockong | River. Manubait, Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: *Flabellum insulindae*. |
| Noil Tonini | Nussa Tenggara Timur, Indonesia, Asia. |
| Noordrivier | River. Papua, Indonesia, Asia. in southeast of Papua. Taxon retrieved from this locality: *Favosites* sp.. |
| North of village Kalemblandong | Outcrop. Surabaja, Java, Indonesia, Asia. Taxon retrieved from this locality: *Stylophora pocilloporoides*. |
| Northside Seroe Hoba | Mountainside. Curaçao, Netherlands Antillen, Netherlands. Taxon retrieved from this locality: *Multicolumnastraea parvula*. |
| Nussa Tenggara Timur | Province. Indonesia, Asia. Taxa retrieved from this locality: *Timorphyllum wanneri*, *Pseudofavosites stylifer septosa*, *Pseudofavosites stylifer*, *Schizophorites dubiosus*, *Gertholites curvatus*, *Gertholites monstrosa*, *Aulacospongia hanieli*, *Aulacospongia? parvula*, *Aulopora timorica*, *Heterastridium conglobatum*, *Heterastridium conglobatum* forma *aplanata*, *Heterastridium conglobatum* var. *intermedia*, *Heterastridium conglobatum* var. *monticularia*, *Heterastridium conglobatum* var. *verrucosa*, *Hindia permica*, *Gertholites* sp. and *Trachypsammia dendroides*. |
| Oikabitti | Amarassi, Nussa Tenggara Timur, Indonesia, Asia. Taxa retrieved from this locality: *Pericosmus timorensis* and *Schizaster japonicus*. |
| Oilmasi | Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: *Plerophyllum radiciforme*. |
| Palembang | Town. Sumatra. |
| Panowan River | River. Rembang, Java, Indonesia, Asia. "Panowan rivier, Rembang" according to labels, not found in Gazetteers. Sometimes written as "Panovan". Taxa retrieved from this locality: *Heterocyathus elberti*, *Placosmilia panovani* and *Indophyllia cylindrica*. |
| Papua | Province. Indonesia, Asia. |
| Pitjis | Rembang, Java, Indonesia, Asia. Taxa retrieved from this locality: *Cidaris aculeata* and *Phyllacanthus imperialis javana*. |
| Podjok | Java, Indonesia, Asia. in Kediri L: "Podjok" (Can be Pujuk of river Pojok?). Taxa retrieved from this locality: *Pseudopechinus percultus*, *Pleurechinus javanus*, *Laganum multiforme* and *Schizaster progoensis*. |
| Point 666 near Basleo | Nussa Tenggara Timur, Indonesia, Asia. "Punkt 666 bei Besleo". |
| Pulau Mandul | Island. Kalimantan Timur, Indonesia, Asia. Taxon retrieved from this locality: *Diploastrea heliopora* var. *borneensis*. |
| Pulau Sinkuwang | Island. Kalimantan Timur, Indonesia, Asia. Taxa retrieved from this locality: *Odontocyathus sundaicus* and *Acanthocyathus malayicus*. |
| Puntuk Tedjo | Java, Indonesia, Asia. Taxa retrieved from this locality: *Goniastrea progoensis*, *Confusastraraea obsoleta* and *Astreopora* sp.. |
| Rapala- Catan-Sil-"Karrenweg" near the source of Arrogo los Molles | Neuquen, Argentina. Taxon retrieved from this locality: *Montlivaltia delabechii* forma *andina*. |
| Rembang | City. Java, Indonesia, Asia. Taxa retrieved from this locality: *Lithophyllia spinosa*, *Scolymia vitiensis* and *Jacksonaster herklotzi*. |
| River Badjang | River. Java, Indonesia, Asia. Taxon retrieved from this locality: *Paracyathus stokesii*. |
| River Banjubanger | River. Surabaja, Java, Indonesia, Asia. Taxon retrieved from this locality: *Acanthocyathus grayi*. |
| River Kedungpring | River. Surabaja, Java, Indonesia, Asia. locality 74, 75 of Cosijn, 273, 274 of Dienst Mijnwezen all on sheet 110B of the geological map of Java. Taxa retrieved from this locality: *Flabellum pavonium* var. *distinctum* and *Coenangia polygonalis*. |
| River Sudo, branch of River Beng | River. Java, Indonesia, Asia. Taxon retrieved from this locality: *Paracyathus* sp.. |

| | |
|---|---|
| River Tretes near village Garung | River. Java, Indonesia, Asia. loc 62 of Cosijn on sheet 110A of geological map of Java . Taxa retrieved from this locality: *Paracyathus stokesii* and *Coenangia polygonalis*. |
| Sangkulirang Bay | Bay. Kalimantan Timur, Indonesia, Asia. |
| Sapulu | Town. Madura, Indonesia, Asia. |
| Sarawak | State. Malaysia. |
| Savonet | Plantage. Curaçao, Netherlands Antillen, Netherlands. Taxa retrieved from this locality: *Archaeolithothamnium curasavicum* and *Radiolites* sp.. |
| Sedan | Java, Indonesia, Asia. T: "Sedan, in der abtheilung Rembang". Taxa retrieved from this locality: *Pattalophyllia verbeeki*, *Cynaria lacrimalis*, *Pattalophyllia patella* and *Alveolinella bontangensis*. |
| Sekurau Anticline along the Sungai Entoko | Anticline. Kalimantan Timur, Indonesia, Asia. Taxa retrieved from this locality: *Stylophora coalescens* and *Stylophora gemmans*. |
| Sekurau-anticline | Anticline. Kalimantan Timur, Indonesia, Asia. Taxon retrieved from this locality: *Fungophyllia aspera*. |
| Serani, about 3 km southwest of Baung | Village. Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: *Cidaris* sp.. |
| Seroe Colorado | Aruba, Netherlands Antillen, Netherlands. Taxon retrieved from this locality: Ammonoidea. |
| Sierra de Vaca Muerta | Neuquen, Argentina. 5 km east of triangulationpoint 48. Taxon retrieved from this locality: *Columastrea antiqua*. |
| Soloriver near Bangunredjo Kidul | River. Jawa Tengah, Indonesia, Asia. Sheet 93B of the Geological map of Java 1:100000. Taxa retrieved from this locality: *Fungia sibogae*, *Fungia somervillei* and *Fungia costulata*. |
| Soloriver northwest of Padasmalang | River. Jawa Tengah, Indonesia, Asia. Sheet 93B of the Geological map of Java 1:100000. Taxa retrieved from this locality: *Acanthocyathus grayi*, *Acanthocyathus spinosa* and *Pavona microstoma*. |
| Soloriver south of mouth of R. Alastuwa near Sonde | River. Jawa Tengah, Indonesia, Asia. Sheet 93B of the Geological map of Java 1:100000. Taxon retrieved from this locality: *Acanthocyathus grayi*. |
| Sondé | Village. Madiun, Java, Indonesia, Asia. According to the label of "Verbeek 375" = Sondé, aan de Solo-rivier; distr. Gendingan, afd. Ngawi. (Solo-rivier=K. Sali=K. Bengawan) Ngawi in Madiun. Taxa retrieved from this locality: *Caryophyllia clavus* var. *javana*, *Heterocyathus rousseanus*, *Heterocyathus aequicostatus*, *Conosmilia sundaiana*, *Antillia infundibuliformis* and *Balanophyllia oppenheimi*. |
| South Geelvink Bay | Bay. |
| Sufa | Nussa Tenggara Timur, Indonesia, Asia. Near Baung. Also written as 'Soefa'. Taxon retrieved from this locality: *Clisiophyllum torquatum*. |
| Sumpeh | Nussa Tenggara Timur, Indonesia, Asia. Loc. 23 of Senllius expedition?. Taxa retrieved from this locality: *Pseudofavosites stylifer*, *Cladochonus crassus*, *Aulopora timorica* and *Gertholites lobatus*. |
| Sungai Gelingseh | River. Kalimantan Timur, Indonesia, Asia. "Goenoeng Batoe-Antiklinale". Taxa retrieved from this locality: *Placosmilia* sp., *Progyrosmilia vacua*, *Indophyllia borneensis*, *Indophyllia cylindrica*, *Cyphastraea gemmulifera*, *Cyphastraea tubifera*, *Cyphastraea crassa*, *Actinastrea minutissima*, *Amphelia alternans*, *Pironastraea sangkoelirangensis*, *Acropora fennemai* and *Astreopora rutteni*. |
| Sungai Goleh | River. Kalimantan Timur, Indonesia, Asia. Also written as Sungei Guleh. Taxon retrieved from this locality: *Ceratocyathus pressulus*. |
| Sungai Lojang | River. Nussa Tenggara Timur, Indonesia, Asia. According to remark in RGMv007 database this is the same as Noil Niti. Taxa retrieved from this locality: *Lithostrotion* sp., *Pentaphyllum (Tachylasma)* sp. and *Zaphrenthis beyrichi*. |
| Sungai Menubar | River. Kalimantan Timur, Indonesia, Asia. Near Sangkulirang Bay. Taxon retrieved from this locality: *Antillia cristata*. |

| | |
|---|---|
| Sungai Narut | River. Kalimantan Timur, Indonesia, Asia. Taxon retrieved from this locality: *Coeloria naroetensis*. |
| Sungai Pamaluan | River. Borneo, Indonesia, Asia. |
| Sungai Pelarang | Village. Kalimantan Timur, Indonesia, Asia. near Samarinda. Taxa retrieved from this locality: *Fungophyllia aspera*, *Echinopora pelarangensis*, *Leptoseris* sp., *Pachyseris speciosa*, *Pachyseris denticulata* and *Turbinaria* sp.. |
| Sungai Ponjangulan | River. Borneo, Indonesia, Asia. |
| Sungai Selankau | River. Kalimantan Timur, Indonesia, Asia. Taxon retrieved from this locality: *Scalariogyra escharoides*. |
| Sungai Taritip | River. Kalimantan Timur, Indonesia, Asia. Taxon retrieved from this locality: *Ceratocyathus pressulus*. |
| Tanah Belang | Mud Volcano. Kalimantan Timur, Indonesia, Asia. Taxa retrieved from this locality: *Deltocyathus australis*, *Deltocyathus tuberculatus*, *Odontocyathus radiatus*, *Trochocyathus schmidti*, *Ceratocyathus pressulus*, *Ceratocyathus curvatus*, *Phloeocyathus brunneus*, *Diplohelia complanata* and *Odontocyathus* sp.. |
| Tandjong Batu | Cape. Kalimantan Timur, Indonesia, Asia. in Sangkoelirang Bay, also written as Tandong Batoe or Tendjong Batoe, "Tandjong"=cape, Batoe="rock". Taxa retrieved from this locality: *Stephanocyathus magnificus* and *Ceratocyathus pressulus*. |
| Tjelak | Region. Java, Indonesia, Asia. Taxon retrieved from this locality: *Synaraea javana*. |
| Tonino I | Nussa Tenggara Timur, Indonesia, Asia. |
| Trench to Mununggkerep | Trench. Surabaja, Java, Indonesia, Asia. Taxon retrieved from this locality: *Fungia actinodiscus*. |
| Tubu Lopo | Nussa Tenggara Timur, Indonesia, Asia. Loc. 22 van Snellius expedition. Taxa retrieved from this locality: *Pseudofavosites stylifer* and *Michelinia indica*. |
| Tuninu | Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: *Cladochonus crassus*. |
| Tuniun Enno | Nussa Tenggara Timur, Indonesia, Asia. Also written as 'Toenioen Enno'. |
| Töo | Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: *Mastophyma globosa*. |
| Wai Geloe | River. Lampong, Sumatra. Taxon retrieved from this locality: *Lepidocyclina transiens*. |
| Wai Hotton | River. Buru, Maluku, Indonesia, Asia. Taxon retrieved from this locality: *Alveopora deningeri*. |
| Wairori | River. Papua, Indonesia, Asia. Taxa retrieved from this locality: *Bullatimorphites (Treptoceras) uhligi*, *Stephanoceras etheridgei*, *Stephanoceras* sp., *Stephanoceras (Itinsaites)* sp. and *Stephanoceras mackensii*. |
| West Progo mountains | Mountain Range. Jogjakarta, Java, Indonesia, Asia. Taxon retrieved from this locality: *Flosculinella globulosa*. |
| Zanzibar | Island. Tanzania. |
| a hill right from road from Nèke to Niki Niki at the watershed between Noil Noni and Noil Liu | Hill. Nussa Tenggara Timur, Indonesia, Asia. "Hügel rechts vom Wege von Nèke nach Niki Niki bei der Wasserscheide zwischen Noil Noni und Noil Lioe". Taxon retrieved from this locality: *Symphyllia molengraaffi*. |
| a path Niki-Niki to Lenu near Noil Tonini | Road. Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: *Stylonites porosus*. |
| a path from Maubesi to Nununai, east of Fafi Nesi | Path. Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: *Montlivaltia stylophylloides*. |

| | |
|---|---|
| a steep northern valleyside of the Noil Fatu along path between Nèke and Niki Niki | Nussa Tenggara Timur, Indonesia, Asia. "Auf der Höhe der steilen nördlichen Talseite des Noil Fatoe am Pfad von Nèke nach Niki Niki, Benain-Becken". Taxon retrieved from this locality: *Porites timorensis* forma *fossilisprima*. |
| anticline south of Sungai Bungalun | Anticline. Kalimantan Timur, Indonesia, Asia. Taxon retrieved from this locality: *Leptoseris alternans*. |
| between Bontang and Sungai Sekambing, west of Rintis Kajan | Coast Area. Part of district Koetei. The fieldnumbers of the foram and the coral locality overlap, and thus probably originate from the same locality, i.e. most probably the 'orbitoid limestone'. This is based on remarks by Wanner in Felix (1921), Rutten (1912) and Rutten (1914). The large benthic foraminifera samples in Naturalis contain a typical Tf1 assemblage. The species composition compares with N7-8 in Van Vessem (1978) correlation scheme (late Burdigalian-Langhian) that compares well with Tf1. The locality is probably younger than the Gunung Spolong and Kembang Sokkoh localities (considering the presence of *Flosculinella bontangensis*, which is supposed to be the succesor of *Flosculinella globulosa* from the two mentioned localities on Java). A Langhian age is thus more likely than a late Burdigalian. Taxon retrieved from this locality: *Favites borneensis*. |
| between Cilintung and Ciangsana | Preanger, Java, Indonesia, Asia. Taxon retrieved from this locality: *Dictyaraea micrantha* var. *spinosa*. |
| between Gunung Runtu and Gunung Mantugai | Outcrop. Kalimantan Timur, Indonesia, Asia. west of Bontang. Taxon retrieved from this locality: *Scalariogyra escharoides*. |
| between Kaoneke and Nilulet | Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: *Pentaphyllum (Tachylasma) timorense*. |
| between Niki Niki and the Noil Fatu | Nussa Tenggara Timur, Indonesia, Asia. Taxa retrieved from this locality: *Aulacospongia* sp., *Aulohelia irregularis* and *Hindia permica*. |
| between Noil Noni and Pene | Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: *Flabellum poseidonis*. |
| between Sumberdjo and Sumberploso | Java, Indonesia, Asia. Taxon retrieved from this locality: *Stylophora pocilloporoides*. |
| between Wekmurak and Mancelac | Timor, Lesser Sunda Islands, Sunda Islands, Asia. Taxon retrieved from this locality: *Tubipora rubiola*. |
| dessa Tlava | Village. Bodjonegoro, Java, Indonesia, Asia. Taxa retrieved from this locality: *Dendrophyllia rutteni* and *Dendrophyllia digitalis*. |
| east of Gunung Kladi | Mahakam, Kalimantan Timur, Indonesia, Asia. Taxon retrieved from this locality: *Fungophyllia aspera*. |
| east of Mount Watulawang | Outcrop. Java, Indonesia, Asia. Locality 77 Dienst Mijnwezen on sheet 110A. Taxon retrieved from this locality: *Paracyathus javana*. |
| east part of Sembulu-anticline | Anticline. Kalimantan Timur, Indonesia, Asia. between Sungai Lemoedjan and Sungai Sawahan. Taxa retrieved from this locality: *Orbicella cyclommatos*, *Stylophora tenuissima* and *Stylophora verrucosa*. |
| locality "Junghuhn E" | Java, Indonesia, Asia. |
| locality "Junghuhn N" | Java, Indonesia, Asia. Taxa retrieved from this locality: *Hydnophora astraeoides*, *Orbicella tabulata* and *Coeloria singularis*. |
| locality "Junghuhn O" | Java, Indonesia, Asia. la parite sudouest du plateau de Bandong; dem Vereinigingspunkte des Tji Burial und des Tji Tangkil; Gunung Sela; Cilanang Gap. Taxa retrieved from this locality: *Anisocoenia crassisepta*, *Acanthastraea polygonalis*, *Favites flexuosus*, *Hydnophora crassa*, *Coeloria arborescens*, *Hydnophora exesa*, *Merulina ampliata*, *Orbicella irregularis*, *Goniopora astraeoides*, *Scutella decagona*, *Jacksonaster decagonus* and *Peronella decagonalis*. |

| | |
|---|---|
| locality "Junghuhn P" | Duangerreg, Java, Indonesia, Asia. Taxa retrieved from this locality: *Galaxea junghuhni*, *Fungia decipiens*, *Favia junghuhni*, *Goniastrea* sp., *Pachyseris curvata*, *Pachyseris cristata*, *Pachyseris laticollis*, *Pavona folium*, *Pavona clava*, *Stylophora digitata*, *Stylophora pistillata*, *Porites strata*, *Dictyaraea anomala*, *Dictyaraea micrantha*, *Acropora duncani*, *Astreopora myriophthalma* and *Anisocoenia* sp.. |
| locality "Junghuhn Q" | Java, Indonesia, Asia. Taxon retrieved from this locality: *Cycloclypeus annulatus*. |
| locality "Junghuhn R" | Java, Indonesia, Asia. Taxa retrieved from this locality: *Tropidocyathus nudus*, *Flabellum pavonium* var. *distinctum* and *Tropidocyathus affinis*. |
| locality "Junghuhn S" | Java, Indonesia, Asia. |
| locality "Junghuhn C" | Java, Indonesia, Asia. Taxa retrieved from this locality: *Fungia decipiens*, *Laganum tenuatum*, *Echinodiscus lesueuri* and *Peronella decagonalis*. |
| lorry-track west of village Ngronan | Road. Java, Indonesia, Asia. localities 8 and 9 from Dienst Mijnwezen on sheet 99B. Taxon retrieved from this locality: *Stylophora pocilloporoides*. |
| north of the road between Krakeel and Klein-Fontien | Outcrop. Curaçao, Netherlands Antillen, Netherlands. 80 m northwest of highpoint 98.6m along this road. Taxon retrieved from this locality: *Alveopora molengraaffi*. |
| north of village Klagenblandong | Outcrop. Java, Indonesia, Asia. locality 37 of Cosijn and locality 219 of "Dienst Mijnwezen" on sheet 116A of Geological Map of Java . Taxa retrieved from this locality: *Flabellum stokesi*, *Progyrosmilia regularis*, AGARICIIDAE , *Oulastrea praecrispata* and *Pachyseris compacta*. |
| north-northeast of village Sumberringin | Outcrop. Surabaja, Java, Indonesia, Asia. Taxa retrieved from this locality: *Gyrosmilia diadema* and *Wellsophyllia*. |
| path from Kapan to Noil Toko near Fatu Suaam and small Fatus south of Fatu Suaam | Path. Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: *Monotrypella spongicola*. |
| path from Nilulet to Noil Toko | Path. Nussa Tenggara Timur, Indonesia, Asia. Taxa retrieved from this locality: *Thecosmilia caespitosa* var. *minor* and *Thecosmilia molengraaffi*. |
| path to village Soemberringin | Path. Java, Indonesia, Asia. loc 101 dienst Mijnwezen, loc. 52 of Cosijn, on sheet 110A of geological map of Java. Taxon retrieved from this locality: *Acanthocyathus spinosa*. |
| road from Idane Gawo to Sogae Adju | Road. Gawo Valley, Nias, Indonesia, Asia. in neighbourhood of "Riffgebirges", SE-Nias. Taxa retrieved from this locality: *Solenastraea arborescens*, *Cyphastrea japonica*, *Astreopora digitata*, *Montipora* sp. and *Pavona microstoma*. |
| small hill south of Fatu Noi Suaam | Hill. Nussa Tenggara Timur, Indonesia, Asia. Taxa retrieved from this locality: *Lovcenipora chaetetiformis*, *Lovcenipora magnopora* and *Disjectopora dubia*. |
| south bank of Rio Agrio, 4 km east of mouth of Rio Salado | Valley. Neuquen, Argentina. Taxon retrieved from this locality: *Placocoenia neuquensis*. |
| south of Bareng | Rembang, Java, Indonesia, Asia. Taxon retrieved from this locality: *Flabellum variabile*. |
| south of village Asemgede | Outcrop. Surabaja, Java, Indonesia, Asia. Taxon retrieved from this locality: *Coenangia polygonalis*. |
| south of village Munungkerep | Outcrop. Taxon retrieved from this locality: *Pachyseris compacta*. |
| south of village Tjendoro | Outcrop. Java, Indonesia, Asia. locality 77 of Cosijn, sheet 110B of Java. Taxa retrieved from this locality: *Paracyathus javana* and *Stylophora granulata*. |
| the inner part of Cidamar | Spring. Cidamar, Java, Indonesia, Asia. "Junghuhn L". Taxa retrieved from this locality: *Peronella orbicularis*, *Jacksonaster herklotzi*, *Echinolampas subangulata*, *Echinolampas oviformis*, *Echinolampas depressus*, *Echinolampas minutus*, *Pliolampas (Tristomanthus) minutus*, *Pericosmus granulosus*, *Spatangus affinis*, *Eupatagus affinis*, *Eupatagus (Brissoides) pulchella*, *Cycloclypeus communis* and *Lepidocyclina gigantea*. |

| | |
|---|---|
| the north coast near Papang | Outcrop. Flores, Indonesia, Asia. North coast near Papang where the road Papang-Rioeng-Rawoe forkes, 550 m above sea level. Taxa retrieved from this locality: *Fungophyllia millepunctata*, *Progyrosmilia vacua*, *Goniopora planulata*, *Fungophyllia aspera* and *Porites* sp.. |
| the profile in Triassic in Oi Ekar near Chinese building | Outcrop. Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: *Wentzelella timorica*. |
| the surroundings of Kyam | Region. Tschang-tschenmo Valley, Karakorum, Asia. Taxa retrieved from this locality: *Lonsdaleiastraea typica*, *Lonsdaleia variabile*, *Dybowskiella grandis* and *Hexagonella* sp.. |
| the top of Seru Bomba Bua | Mountain Top. Curaçao, Netherlands Antillen, Netherlands. Taxon retrieved from this locality: *Goniastrea curasavica*. |
| the western part of Cidamar | Spring. Java, Indonesia, Asia. Locality Junghuhn K (north of Sindangbarang ). Taxa retrieved from this locality: *Trachyphyllia crassa*, *Clypeaster latus*, *Clypeaster (Stolonoclypeus) humilis*, *Clypeaster rosaceus*, *Clypeaster tumescens*, *Clypeaster testudinarius*, *Pliolampas (Tristomanthus) minutus*, *Pericosmus asperulatus*, *Pericosmus granulosus*, *Pericosmus rotundatus*, *Pericosmus elatus*, *Pericosmus parvus*, *Hemifaorina tuber*, *?Hemiaster* sp., *Hemiaster tuberculatus*, *Cycloclypeus communis*, *Lepidocyclina (Eulepidina) radiata*, *Lepidocyclina (Eulepidina) carteri* and *Lepidocyclina gigantea*. |
| west of Gunung Batuta and south of Sungai Bungalun | Coast Area. Kalimantan Timur, Indonesia, Asia. Taxa retrieved from this locality: *Hydnophyllia applanata* and *Cyathoseris crassilamellata*. |
| ±100m south of River Kedungpring | Outcrop. Surabaja, Java, Indonesia, Asia. Taxon retrieved from this locality: *Acanthocyathus grayi*. |

## Index

### A


abdita, Favites abdita ... 31
abichi, Amplexocarinia abichi ... 9
Acanthastraea ... 21
Acanthastraea polygonalis ... 21
Acanthocyathus ... 21
Acanthocyathus grayi ... 21
Acanthocyathus malayicus ... 21
Acanthocyathus spinosa ... 21
Acropora ... 22
Acropora duncani ... 22
Acropora fennemai ... 22
Actinastrea ... 22
Actinastrea minutissima ... 22
actinodiscus, Fungia actinodiscus ... 32
aculeata, Cidaris aculeata ... 56
adunca, Orbiculina adunca ... 69
aegyptorum, Metastraea aegyptorum ... 31
aequicostatus , Heterocyathus aequicostatus ... 36
affinis , Eupatagus affinis ... 58
affinis , Spatangus affinis ... 60
affinis , Tropidocyathus affinis ... 49
ajermatiensis , Timorphyllum wanneri var. ajermatiensis 19
alta, Flabellum variabile forma alta ... 32
alternans , Amphelia alternans ... 39
alternans , Leptoseris alternans ... 39
Alveolinella ... 67
Alveolinella bontangensis ... 67
Alveopora ... 22
Alveopora deningeri ... 22
Alveopora molengraaffi ... 22
Alveopora polyacantha ... 22
Ammonoidea ... 63
Amphelia ... 39
Amphelia alternans ... 39
Amplexocarinia ... 9
Amplexocarinia abichi ... 9
Amplexocarinia bitauniensis ... 9
Amplexocarinia geyeri ... 10
Amplexocarinia jonkeri ... 10
Amplexocarinia naliensis ... 10
Amplexus ... 10
Amplexus beyrichi ... 10
ampliata, Merulina ampliata ... 40
andina, Montlivaltia delabechii forma andina ... 40
angusta , Oulophyllia angusta ... 45
angusta , Polycoelia (Polycoelia) angusta ... 17
Animalia ... 8
Anisocoenia ... 22
Anisocoenia crassisepta ... 22
Anisocoenia variabilis ... 23
annulatus , Cycloclypeus annulatus ... 67
anomala , Dictyaraea anomala ... 29
Anthozoa ... 9
Antillia ... 23
Antillia cristata ... 23
Antillia infundibuliformis ... 23
Antillia orientalis ... 23
Antillia turbinata ... 23
Antillophyllia ... 23
Antillophyllia constricta ... 23
Antillophyllia grandiflora ... 23
antiqua , Columastrea antiqua ... 26
apertum , Endothecium apertum ... 13
aplanata, Heterastridium conglobatum forma aplanata ... 8
applanata , Hydnophyllia applanata ... 38
arborescens , Coeloria arborescens ... 37
arborescens , Solenastraea arborescens ... 28
Archaeolithothamnium ... 69

Archaeolithothamnium curasavicum ....69
armatus , Odontocyathus armatus ....41
arundinacea , Caninia arundinacea....11
aspera, Fungophyllia aspera ....34
asperulatus , Pericosmus asperulatus....61
astraeoides , Goniopora astraeoides....36
astraeoides , Hydnophora astraeoides....37
Astreopora....23
Astreopora digitata ....23
Astreopora hochstetteri....23
Astreopora myriophthalma....24
Astreopora rutteni....24
Astrocoenia ....24
Astrocoenia colliculosa....24
Aulacospongia....64
Aulacospongia bulbosa ....64
Aulacospongia hanieli....64
Aulacospongia? parvula ....64
Aulohelia....50
Aulohelia irregularis....50
Aulohelia laevis....50
Aulopora ....50
Aulopora timorica....50
australis , Deltocyathus australis ....28
australis , Verbeekiella australis ....20

## B

Balanophyllia....24
Balanophyllia complanata ....24
Balanophyllia oppenheimi....24
Balanophyllia variabilis....24
Basleophyllum....10
Basleophyllum incertum....10
Basleophyllum indicum ....11
Basleophyllum pachyderma....11
Bathyactis ....25
Bathyactis eocaenica ....25
beecheri, Monilopora beecheri....53
beyrichi, Amplexus beyrichi ....10
beyrichi, Pentaphyllum (Tachylasma) beyrichi....14
beyrichi, Pentaphyllum (Tachylasma) beyrichi beyrichi ...15
bitaoeniensis , Hindia permica var. bitaoeniensis....67
bitaunense, Plerophyllum bitaunense ....17
bitauniensis, Amplexocarinia bitauniensis ....9
Bivalvia....63
Blanfordiceras....63
Blanfordiceras novaguinense ....63
bontangensis, Alveolinella bontangensis ....67
borneensis, Diploastrea heliopora var. borneensis ....29
borneensis, Favites borneensis....31
borneensis, Fungia borneensis ....32
borneensis, Indophyllia borneensis....38
boschi, Laganum boschi....59
bothryoides , Pleurechinus bothryoides....63
brevicaulis , Dasyphyllia brevicaulis ....28
Breynia....56
Breynia paucituberculata ....56
Breynia sundaica ....56
Brissoides....56
brunneus, Phloeocyathus brunneus....44
Bryozoa....8
bulbosa , Aulacospongia bulbosa ....64
Bullatimorphites....64
Bullatimorphites (Treptoceras) ....64
Bullatimorphites (Treptoceras) uhligi....64

## C

caespitosa, Thecosmilia caespitosa....48
cainodon, Duplophyllum (Euryphyllum) cainodon....13
calyculat , Pentaphyllum (Tachylasma) timorense var. calyculat....16
calyculatum , Duplophyllum (Duplophyllum) calyculatum .... 12
Caninia .... 11
Caninia arundinacea .... 11
Carcinophyllum .... 11
Carcinophyllum wichmanni .... 11
carteri , Lepidocyclina (Eulepidina) carteri .... 68
carthausi , Stephanoseris carthausi .... 47
Caryophyllia .... 25
Caryophyllia clavus .... 25
Caryophyllia clavus var. javana .... 25
Caryospongia .... 64
Caryospongia? dyadica .... 64
Cephalopoda .... 63
Ceratocyathus .... 25
Ceratocyathus curvatus .... 25
Ceratocyathus pressulus .... 25
Ceratophyllia .... 25
Ceratophyllia gigantea .... 25
Chaetetes .... 50
Chaetetes deterrai .... 50
chaetetiformis, Lovcenipora chaetetiformis .... 53
cheribonensis , Opechinus cheribonensis .... 60
Chondrocidaris .... 56
Chondrocidaris sundaica .... 56
Cidaris .... 56
Cidaris aculeata .... 56
Cidaris papillata .... 57
Cladochonus .... 50
Cladochonus crassus .... 50
Cladochonus magnus .... 51
clava , Pavona clava .... 43
claviger, Palaeophyma claviger .... 65
clavus, Caryophyllia clavus .... 25
Clisiophyllum .... 12
Clisiophyllum torquatum .... 12
Clypeaster .... 57
Clypeaster (Stolonoclypeus) humilis .... 57
Clypeaster latus .... 57
Clypeaster rosaceus .... 57
Clypeaster testudinarius .... 57
Clypeaster tumescens .... 57
Cnidaria .... 8
coalescens, Stylophora coalescens .... 47
cochlea , Heteropsammia cochlea .... 37
Coelastraea .... 25
Coelastraea rectangularis .... 25
Coelocoenia .... 25
Coelocoenia torulosa .... 25
Coelopleuris .... 57
Coelopleuris schneideri .... 57
Coeloria .... 26
Coeloria arborescens .... 37
Coeloria daedalea .... 26
Coeloria dubia .... 26
Coeloria inaequiseptata .... 26
Coeloria naroetensis .... 26
Coeloria singularis .... 26
Coenangia .... 26
Coenangia polygonalis .... 26
colliculosa , Astrocoenia colliculosa .... 24
collignoni, Opechinus collignoni .... 60
Columastrea .... 26
Columastrea antiqua .... 26
columna , Coscinaraea columna .... 27
communis, Cycloclypeus communis .... 67
compacta, Pachyseris compacta .... 42
complanata, Balanophyllia complanata .... 24
complanata, Diplohelia complanata .... 29
compressa , Prosmilia compressa .... 17
concentrica , Leptoria concentrica .... 39

concinna, Fungia concinna ....33
Confusastraraea....26
Confusastraraea obsoleta....26
conglobatum , Heterastridium conglobatum....8
Conosmilia....27
Conosmilia sundaiana....27
constricta, Antillophyllia constricta....23
Convexastrea....27
Convexastrea weaveri....27
Coscinaraea....27
Coscinaraea columna....27
costulata , Fungia costulata....33
crassa, Cyphastraea crassa....27
crassa, Hydnophora crassa....37
crassa, Monilopora crassa....54
crassa, Trachyphyllia crassa....49
crassatina, Echinopora gemmacea crassatina....30
crassilamellata , Cyathoseris crassilamellata....27
crassisepta , Anisocoenia crassisepta....22
crassus , Cladochonus crassus....50
crassus , Heterocoenites crassus....53
cristata, Antillia cristata....23
cristata, Pachyseris cristata....42
cristatum , Wannerophyllum cristatum....20
cucumeriformis, Palaeophyma cucumeriformis....65
curasavica, Goniastrea curasavica....35
curasavicum , Archaeolithothamnium curasavicum....69
curvata , Pachyseris curvata....42
curvatus, Ceratocyathus curvatus....25
curvatus, Gertholites curvatus....52
Cyathophora....27
Cyathophora decamera....27
cyathophylloides, Prosmilia cyathophylloides....17
Cyathoseris....27
Cyathoseris crassilamellata....27
Cyathoseris lophiophora....27
Cycloclypeus....67
Cycloclypeus annulatus....67
Cycloclypeus communis....67
Cycloclypeus neglectus....67
cyclommatos , Orbicella cyclommatos....41
cylindric , Pentaphyllum (Tachylasma) timorense var. cylindric....16
cylindrica, Indophyllia cylindrica....38
Cyphastraea....27
Cyphastraea crassa....27
Cyphastraea gemmulifera....27
Cyphastraea microphthalma....28
Cyphastraea niasensis....28
Cyphastraea tubifera....28
Cyphastrea japonica....28
Cystina , Spineria (Cystina)....18

## D

daedalea, Coeloria daedalea....26
Dasyphyllia....28
Dasyphyllia brevicaulis....28
decagona, Scutella decagona....61
decagonalis , Peronella decagonalis....61
decagonus , Jacksonaster decagonus....59
decamera, Cyathophora decamera....27
decipiens , Endothecium decipiens....13
decipiens , Fungia decipiens....33
defecta , Ufimia radiciformis defecta....19
delabechii, Montlivaltia delabechii....40
Deltocyathus....28
Deltocyathus australis....28
Deltocyathus tuberculatus....28
Demospongiae....66
Dendracis....28
dendroides, Trachypsammia dendroides....55
Dendrophyllia....29
Dendrophyllia digitalis....29
Dendrophyllia rutteni....29
deningeri , Alveopora deningeri....22
densum, Pentaphyllum (Tachylasma) densum....15
dentatus, Endamplexus (Endamplexus) dentatus....13
denticulata , Pachyseris denticulata....42
depressus , Echinolampas depressus....58
Desmechinus....58
Desmechinus erbi....58
deterrai, Chaetetes deterrai....50
diadema , Gyrosmilia diadema....36
Dibunophyllum....12
Dibunophyllum rothpletzi....12
Dibunophyllum tubulosum....12
Dictyaraea....29
Dictyaraea anomala....29
Dictyaraea micrantha....29
Dictyaraea micrantha var. spinosa....29
Dictyopora....51
Dictyopora incrustans....51
digitalis , Dendrophyllia digitalis....29
digitata, Astreopora digitata....23
digitata, Stylophora digitata....47
Diploastrea....29
Diploastrea heliopora....29
Diploastrea heliopora var. borneensis....29
diplochone, Spineria (Spineria) diplochone....18
Diplohelia....29
Diplohelia complanata....29
Diplohelia malayica....29
Disjectopora....8
Disjectopora dubia....8
dissimilis, Pleramplexus dissimilis....16
distans , Pachyseris distans....42
distinctum, Flabellum pavonium var. distinctum....32
distorta, Fungia distorta....33
divaricata, Phyllangia divaricata....44
dubia , Coeloria dubia....26
dubia , Disjectopora dubia....8
dubiosa , Montipora dubiosa....40
dubiosus, Schizophorites dubiosus....55
dubius, Phyllacanthus dubius....61
duncani , Acropora duncani....22
Duplophyllum....12
Duplophyllum (Duplophyllum)....12
Duplophyllum (Duplophyllum) calyculatum....12
Duplophyllum (Duplophyllum) zaphrentoides....12
Duplophyllum (Euryphyllum)....13
Duplophyllum (Euryphyllum) cainodon....13
Duplophyllum (Euryphyllum) robustum....13
Duplophyllum, Duplophyllum (Duplophyllum)....12
dyadica , Caryospongia? dyadica....64
Dybowskiella....8
Dybowskiella grandis....8

## E

Echinodermata....56
Echinodiscus....58
Echinodiscus lesueuri....58
Echinoidea....56
Echinolampas....58
Echinolampas depressus....58
Echinolampas minutus....58
Echinolampas oviformis....58
Echinolampas subangulata....58
Echinophyllia....29
Echinophyllia robusta....29
Echinopora....30
Echinopora gemmacea....30
Echinopora gemmacea crassatina....30
Echinopora gemmacea parva....30
Echinopora lamellosa....30

Echinopora pelarangensis....30
Echinopora porosa....30
elatus, Pericosmus elatus....60
elberti , Heterocyathus elberti....36
elegantissima , Galaxea elegantissima....35
elevatus, Pliolampas (Tristomanthus) elevatus....63
elongata, Verbeekiella australis forma elongata....20
elongatum , Pentaphyllum (Tachylasma) beyrichi var. elongatum....15
Endamplexus....13
Endamplexus (Endamplexus)....13
Endamplexus (Endamplexus) dentatus....13
Endamplexus , Endamplexus (Endamplexus)....13
Endopachys....30
Endopachys grayi....30
Endothecium....13
Endothecium apertum....13
Endothecium decipiens....13
eocaenica , Bathyactis eocaenica....25
erbi, Desmechinus erbi....58
escharoides , Scalariogyra escharoides....46
etheridgei, Stephanoceras etheridgei....64
euglabra, Lepidocyclina (Eulepidina) euglabra....68
Eulepidina, Lepidocyclina (Eulepidina)....68
Eupatagus....58
Eupatagus (Brissoides) pulchella....56
Eupatagus affinis....58
Eupatagus martini....58
Euryphyllum , Duplophyllum (Euryphyllum)....13
exesa , Hydnophora exesa....37
explanata , Fungophyllia explanata....34

## F

fascicularis, Galaxea fascicularis....35
Favia....30
Favia junghuhni....30
Favia speciosa....30
Favites....31
Favites abdita....31
Favites borneensis....31
Favites pauciseptata....31
Favites pentagona....31
Favites pentagona tenuis....31
Favosites....51
Favosites parasitica....51
Favosites permica....51
Favosites relicta....51
felixi, Orbicella felixi....41
fenestrata, Thecosmilia fenestrata....48
fennemai, Acropora fennemai....22
Flabellum....31
Flabellum insulindae....31
Flabellum irregulare....31
Flabellum pavonium....32
Flabellum pavonium var. distinctum....32
Flabellum poseidonis....32
Flabellum rubrum....32
Flabellum stokesi....32
Flabellum variabile....32
Flabellum variabile forma alta....32
florescens, Trochoseris florescens....49
floriformis , Leptoseris floriformis....39
Flosculinella....68
Flosculinella globulosa....68
folium, Pavona folium....44
Foraminifera....67
fossilisprima , Porites timorensis formafossilisprima....45
fragilis, Fungia fragilis....33
Fungia....32
Fungia actinodiscus....32
Fungia borneensis....32
Fungia concinna....33
Fungia costulata....33
Fungia decipiens....33
Fungia distorta....33
Fungia fragilis....33
Fungia fragilis forma hemispherica....33
Fungia granulicostata....33
Fungia inaequicostata....33
Fungia praecursor....34
Fungia pseudoechinata....34
Fungia sibogae....34
Fungia somervillei....34
Fungia subpaumotensis....34
Fungophyllia....34
Fungophyllia aspera....34
Fungophyllia explanata....34
Fungophyllia millepunctata....34
Fungophyllia monstrosa....35

## G

Galaxea....35
Galaxea elegantissima....35
Galaxea fascicularis....35
Galaxea junghuhni....35
gemmacea, Echinopora gemmacea....30
gemmans , Stylophora gemmans....47
gemmulifera , Cyphastraea gemmulifera....27
gerthi, Pentaphyllum (Tachylasma) gerthi....15
Gertholites....52
Gertholites curvatus....52
Gertholites lobatus....52
Gertholites monstrosa....52
Gertholites sp.....52
geyeri, Amplexocarinia geyeri....10
gigantea, Ceratophyllia gigantea....25
gigantea, Lepidocyclina gigantea....68
gigas , Montlivaltia gigas....40
globosa , Mastophyma globosa....65
globulosa , Flosculinella globulosa....68
Goniastrea....35
Goniastrea curasavica....35
Goniastrea progoensis....35
Goniastrea simplicitexta....35
Goniopora....36
Goniopora astraeoides....36
Goniopora planulata....36
Goniopora tenuidens....36
grandiflora , Antillophyllia grandiflora....23
grandis , Dybowskiella grandis....8
grandis , Hydnophora grandis....38
grandis , Pleramplexus grandis....16
granulata , Stylophora granulata....47
granulicostata, Fungia granulicostata....33
Granuloreticulosa....67
granulosus, Pericosmus granulosus....61
grayi , Acanthocyathus grayi....21
grayi , Endopachys grayi....30
Gyrosmilia....36
Gyrosmilia diadema....36

## H

Halomitra....36
Halomitra vetusta....36
hanieli , Aulacospongia hanieli....64
heliopora , Diploastrea heliopora....29
Hemiaster....59
Hemiaster tuberculatus....59
Hemifaorina....59
Hemifaorina tuber....59
hemispherica, Fungia fragilis forma hemispherica....33
herklotzi , Jacksonaster herklotzi....59
Heterastridium....8
Heterastridium conglobatum....8

Heterastridium conglobatum forma aplanata ..... 8
Heterastridium conglobatum var. intermedia ..... 8
Heterastridium conglobatum var. monticularia ..... 9
Heterastridium conglobatum var. verrucosa ..... 9
Heterocoenites ..... 53
Heterocoenites crassus ..... 53
Heterocoenites variabilis ..... 53
Heterocyathus ..... 36
Heterocyathus aequicostatus ..... 36
Heterocyathus elberti ..... 36
Heterocyathus parasiticus ..... 36
Heterocyathus rembangensis ..... 37
Heterocyathus rousseanus ..... 37
Heterocyathus sandalinus ..... 37
Heteropsammia ..... 37
Heteropsammia cochlea ..... 37
Heteropsammia ovalis ..... 37
Hexagonella ..... 8
Hindia ..... 66
Hindia permica ..... 66
Hindia permica var. bitaoeniensis ..... 67
Hindia wanneri ..... 67
hochstetteri, Astreopora hochstetteri ..... 23
humilis , Clypeaster (Stolonoclypeus) humilis ..... 57
Hydnophora ..... 37
Hydnophora astraeoides ..... 37
Hydnophora crassa ..... 37
Hydnophora exesa ..... 37
Hydnophora grandis ..... 38
Hydnophora solidior ..... 38
Hydnophora tenella ..... 38
Hydnophyllia ..... 38
Hydnophyllia applanata ..... 38
Hydnophyllia malayica ..... 38
Hydnophyllia martini ..... 21
Hydrozoa ..... 8

## I

imbricata , Phyllangia imbricata ..... 44
imperialis, Phyllacanthus imperialis ..... 62
inaequicostata, Fungia inaequicostata ..... 33
inaequiseptata, Coeloria inaequiseptata ..... 26
incertum, Basleophyllum incertum ..... 10
incrustans, Dictyopora incrustans ..... 51
indica, Michelinia indica ..... 53
indicum , Basleophyllum indicum ..... 11
Indophyllia ..... 38
Indophyllia borneensis ..... 38
Indophyllia cylindrica ..... 38
infundibuliformis , Antillia infundibuliformis ..... 23
insulindae, Flabellum insulindae ..... 31
intermedia, Heterastridium conglobatum var. intermedia .8
irregular , Pentaphyllum (Tachylasma) timorense var. irregular ..... 16
irregulare, Flabellum irregulare ..... 31
irregularis , Aulohelia irregularis ..... 50
irregularis , Orbicella irregularis ..... 41
irregularis , Pavonaraea irregularis ..... 44
irregularis , Seriatopora irregularis ..... 46
Isis ..... 9
Isis polyacantha ..... 9
isoseptatum , Pentaphyllum (Tachylasma) isoseptatum ...15
Itinsaites ..... 64

## J

Jacksonaster ..... 59
Jacksonaster decagonus ..... 59
Jacksonaster herklotzi ..... 59
japonica, Cyphastrea japonica ..... 28
japonicus , Schizaster japonicus ..... 62
javana, Caryophyllia clavus var. javana ..... 25
javana, Oxyphyllia javana ..... 42
javana, Paracyathus javana ..... 43
javana, Pavonaraea javana ..... 44
javana, Petrophylliella javana ..... 44
javana, Phyllacanthus imperialis javana ..... 62
javana, Sismondia javana ..... 62
javana, Synaraea javana ..... 48
Javanoseris ..... 39
Javanoseris sinuata ..... 39
javanus , Pleurechinus javanus ..... 63
jonkeri , Amplexocarinia jonkeri ..... 10
jonkeri , Mastophyma jonkeri ..... 65
junghuhni , Favia junghuhni ..... 30
junghuhni , Galaxea junghuhni ..... 35

## L

laevis, Aulohelia laevis ..... 50
Laganum ..... 59
Laganum boschi ..... 59
Laganum multiforme ..... 59
Laganum tenuatum ..... 59
lamellina , Platygyra lamellina ..... 45
lamellosa , Echinopora lamellosa ..... 30
laterocristatus , Trochocyathus laterocristatus ..... 49
laticollis, Pachyseris laticollis ..... 42
latus , Clypeaster latus ..... 57
Lepidocyclina ..... 68
Lepidocyclina (Eulepidina) ..... 68
Lepidocyclina (Eulepidina) carteri ..... 68
Lepidocyclina (Eulepidina) euglabra ..... 68
Lepidocyclina (Eulepidina) limbata ..... 68
Lepidocyclina (Eulepidina) papulifera ..... 68
Lepidocyclina (Eulepidina) radiata ..... 68
Lepidocyclina (Eulepidina) rutteni ..... 68
Lepidocyclina (Nephrolepidina) ..... 69
Lepidocyclina (Nephrolepidina) martini ..... 69
Lepidocyclina gigantea ..... 68
Lepidocyclina transiens ..... 68
Leptastrea ..... 39
Leptastrea purpurea ..... 39
Leptoria ..... 39
Leptoria concentrica ..... 39
leptoseptata, Paralleynia leptoseptata ..... 14
Leptoseris ..... 39
Leptoseris alternans ..... 39
Leptoseris floriformis ..... 39
lesueuri, Echinodiscus lesueuri ..... 58
limbata , Lepidocyclina (Eulepidina) limbata ..... 68
linggapadangensis , Orbicella linggapadangensis ..... 41
Lithophyllia ..... 40
Lithophyllia spinosa ..... 40
Lithostrotion ..... 13
lobatus , Gertholites lobatus ..... 52
Lonsdaleia ..... 14
Lonsdaleia molengraaffi ..... 14
Lonsdaleia variabile ..... 14
Lonsdaleiastraea ..... 14
Lonsdaleiastraea typica ..... 14
Lonsdaleiastraea vinassai ..... 14
lophiophora , Cyathoseris lophiophora ..... 27
Lophophyllidium ..... 14
Lophophyllidium spinosum ..... 14
Lovcenipora ..... 53
Lovcenipora chaetetiformis ..... 53
Lovcenipora magnopora ..... 53

## M

Madracis ..... 39
Madracis myriaster ..... 39
Madrepora ..... 39
madurae , Opechinus madurae ..... 60
magnificus, Stephanocyathus magnificus ..... 47
magnopora , Lovcenipora magnopora ..... 53

magnus, Cladochonus magnus ..... 51
makrodeuterum , Pentaphyllum (Tachylasma) makrodeuterum ..... 15
malayica, Diplohelia malayica ..... 29
malayica, Hydnophyllia malayica ..... 38
malayica, Virgula? malayica ..... 66
malayicus , Acanthocyathus malayicus ..... 21
mamillata , Stylohelia mamillata ..... 47
Maretia ..... 60
Maretia planulata ..... 60
martini , Eupatagus martini ..... 58
martini , Hydnophyllia martini ..... 21
martini , Lepidocyclina (Nephrolepidina) martini ..... 69
Mastophyma ..... 65
Mastophyma globosa ..... 65
Mastophyma jonkeri ..... 65
Merulina ..... 40
Merulina ampliata ..... 40
Metastraea ..... 31
Metastraea aegyptorum ..... 31
Michelinia ..... 53
Michelinia indica ..... 53
micrantha , Dictyaraea micrantha ..... 29
microphthalma , Cyphastraea microphthalma ..... 28
microstoma, Pavona microstoma ..... 44
millepunctata , Fungophyllia millepunctata ..... 34
minor , Thecosmilia caespitosa var. minor ..... 48
minutissima , Actinastrea minutissima ..... 22
minutus , Echinolampas minutus ..... 58
minutus , Pliolampas (Tristomanthus) minutus ..... 63
molengraaffi, Alveopora molengraaffi ..... 22
molengraaffi, Lonsdaleia molengraaffi ..... 14
molengraaffi, Palaeojerea molengraaffi ..... 65
molengraaffi, Symphyllia molengraaffi ..... 48
molengraaffi, Thecosmilia molengraaffi ..... 48
Mollusca ..... 63
Monilopora ..... 53
Monilopora beecheri ..... 53
Monilopora crassa ..... 54
Monotrypella ..... 8
Monotrypella spongicola ..... 8
monstrosa , Fungophyllia monstrosa ..... 35
monstrosa , Gertholites monstrosa ..... 52
monticularia, Heterastridium conglobatum var. monticularia ..... 9
Montipora ..... 40
Montipora dubiosa ..... 40
Montlivaltia ..... 40
Montlivaltia delabechii ..... 40
Montlivaltia delabechii forma andina ..... 40
Montlivaltia gigas ..... 40
Montlivaltia stylophylloides ..... 40
Montlivaltia timorica ..... 40
Multicolumnastraea ..... 40
Multicolumnastraea parvula ..... 40
multiforme, Laganum multiforme ..... 59
multiseptata, Thecosmilia fenestrata var. multiseptata ..... 48
murchisoni, Pachyseris murchisoni ..... 43
Mussa ..... 40
Mycedium ..... 41
Mycedium tubifex ..... 41
myriaster , Madracis myriaster ..... 39
myriophthalma , Astreopora myriophthalma ..... 24

## N

naliensis , Amplexocarinia naliensis ..... 10
naroetensis , Coeloria naroetensis ..... 26
neglectus , Cycloclypeus neglectus ..... 67
Nephrolepidina, Lepidocyclina (Nephrolepidina) ..... 69
neuquensis, Placocoenia neuquensis ..... 45
niasensis , Cyphastraea niasensis ..... 28
Normannites ..... 64
novaguinense, Blanfordiceras novaguinense ..... 63
nudus , Tropidocyathus nudus ..... 49

## O

obsoleta, Confusastraraea obsoleta ..... 26
Octocorallia ..... 9
Odontocyathus ..... 41
Odontocyathus armatus ..... 41
Odontocyathus radiatus ..... 41
Odontocyathus sundaicus ..... 41
oligopora , Pachypora oligopora ..... 54
oligoporus, Pseudopechinus percultus oligoporus ..... 60
Opechinus ..... 60
Opechinus cheribonensis ..... 60
Opechinus collignoni ..... 60
Opechinus madurae ..... 60
oppenheimi, Balanophyllia oppenheimi ..... 24
Orbicella ..... 41
Orbicella cyclommatos ..... 41
Orbicella felixi ..... 41
Orbicella irregularis ..... 41
Orbicella linggapadangensis ..... 41
Orbicella tabulata ..... 41
orbicularis , Peronella orbicularis ..... 61
Orbiculina ..... 69
Orbiculina adunca ..... 69
orientalis, Antillia orientalis ..... 23
ornata, Seriatopora ornata ..... 46
Oulastrea ..... 42
Oulastrea praecrispata ..... 42
Oulophyllia angusta ..... 45
ovalis, Heteropsammia ovalis ..... 37
oviformis , Echinolampas oviformis ..... 58
Oxyphyllia ..... 42
Oxyphyllia javana ..... 42

## P

pachyderma, Basleophyllum pachyderma ..... 11
Pachypora ..... 54
Pachypora oligopora ..... 54
Pachyseris ..... 42
Pachyseris compacta ..... 42
Pachyseris cristata ..... 42
Pachyseris curvata ..... 42
Pachyseris denticulata ..... 42
Pachyseris distans ..... 42
Pachyseris laticollis ..... 42
Pachyseris murchisoni ..... 43
Pachyseris speciosa ..... 43
Pachyseris vandijki ..... 42
Palaeacis ..... 54
Palaeacis regularis ..... 54
Palaeacis tubifer ..... 54
Palaeoderma ..... 65
Palaeoderma tubulosa ..... 65
Palaeojerea ..... 65
Palaeojerea molengraaffi ..... 65
Palaeophyma ..... 65
Palaeophyma claviger ..... 65
Palaeophyma cucumeriformis ..... 65
Palaeophyma piriformis ..... 65
panovani, Placosmilia panovani ..... 45
papillata , Cidaris papillata ..... 57
papulifera, Lepidocyclina (Eulepidina) papulifera ..... 68
Paracyathus ..... 43
Paracyathus javana ..... 43
Paracyathus procumbens ..... 43
Paracyathus stokesii ..... 43
Paralleynia ..... 14
Paralleynia leptoseptata ..... 14
parasitica, Favosites parasitica ..... 51
parasiticus , Heterocyathus parasiticus ..... 36

parva , Echinopora gemmacea parva ..... 30
parvula , Aulacospongia? parvula ..... 64
parvula , Multicolumnastraea parvula ..... 40
parvus, Pericosmus parvus ..... 61
patella , Pattalophyllia patella ..... 43
Pattalophyllia ..... 43
Pattalophyllia patella ..... 43
Pattalophyllia verbeeki ..... 43
pauciseptata, Favites pauciseptata ..... 31
paucituberculata, Breynia paucituberculata ..... 56
Pavona ..... 43
Pavona clava ..... 43
Pavona folium ..... 44
Pavona microstoma ..... 44
Pavonaraea ..... 44
Pavonaraea irregularis ..... 44
Pavonaraea javana ..... 44
pavonium, Flabellum pavonium ..... 32
pelarangensis , Echinopora pelarangensis ..... 30
Pemmatites ..... 66
Pemmatites timorensis ..... 66
pentagona , Favites pentagona ..... 31
Pentaphyllum ..... 14
Pentaphyllum (Tachylasma) ..... 14
Pentaphyllum (Tachylasma) beyrichi ..... 14
Pentaphyllum (Tachylasma) beyrichi beyrichi ..... 15
Pentaphyllum (Tachylasma) beyrichi var. elongatum ..... 15
Pentaphyllum (Tachylasma) beyrichi var. tabulatum ..... 15
Pentaphyllum (Tachylasma) densum ..... 15
Pentaphyllum (Tachylasma) gerthi ..... 15
Pentaphyllum (Tachylasma) isoseptatum ..... 15
Pentaphyllum (Tachylasma) makrodeuterum ..... 15
Pentaphyllum (Tachylasma) timorense ..... 15
Pentaphyllum (Tachylasma) timorense typicum ..... 16
Pentaphyllum (Tachylasma) timorense var. calyculat ..... 16
Pentaphyllum (Tachylasma) timorense var. cylindric ..... 16
Pentaphyllum (Tachylasma) timorense var. irregular ..... 16
percultus , Pseudopechinus percultus ..... 60
Pericosmus ..... 60
Pericosmus asperulatus ..... 61
Pericosmus elatus ..... 60
Pericosmus granulosus ..... 61
Pericosmus parvus ..... 61
Pericosmus rotundatus ..... 61
Pericosmus timorensis ..... 61
permica , Favosites permica ..... 51
permica , Hindia permica ..... 66
permica , Timorella permica ..... 66
permica , Verbeekiella permica ..... 20
Peronella ..... 61
Peronella decagonalis ..... 61
Peronella orbicularis ..... 61
Petrophylliella ..... 44
Petrophylliella javana ..... 44
Phacellopegma ..... 66
Phacellopegma praemorsa ..... 66
phillipsi , Zaphrenthis phillipsi ..... 21
Phloeocyathus brunneus ..... 44
Phloeocyathys ..... 44
phrygia , Platygyra phrygia ..... 45
Phyllacanthus ..... 61
Phyllacanthus dubius ..... 61
Phyllacanthus dubius sundaica ..... 61
Phyllacanthus imperialis ..... 62
Phyllacanthus imperialis javana ..... 62
Phyllangia ..... 44
Phyllangia divaricata ..... 44
Phyllangia imbricata ..... 44
piriformis, Palaeophyma piriformis ..... 65
Pironastraea ..... 45
Pironastraea sangkoelirangensis ..... 45
Placocoenia ..... 45
Placocoenia neuquensis ..... 45
Placosmilia ..... 45
Placosmilia panovani ..... 45
planulata , Goniopora planulata ..... 36
planulata , Maretia planulata ..... 60
Platygyra ..... 45
Platygyra lamellina ..... 45
Platygyra phrygia ..... 45
Pleramplexus ..... 16
Pleramplexus dissimilis ..... 16
Pleramplexus grandis ..... 16
Pleramplexus similis ..... 16
Plerophyllum ..... 17
Plerophyllum bitaunense ..... 17
Plerophyllum radiciforme ..... 17
Plerophyllum weberi ..... 17
Pleurechinus ..... 63
Pleurechinus bothryoides ..... 63
Pleurechinus javanus ..... 63
Pliolampas (Tristomanthus) elevatus ..... 63
Pliolampas (Tristomanthus) minutus ..... 63
pocilloporoides , Stylophora pocilloporoides ..... 47
polyacantha , Alveopora polyacantha ..... 22
polyacantha , Isis polyacantha ..... 9
Polycoelia ..... 17
Polycoelia (Polycoelia) ..... 17
Polycoelia (Polycoelia) angusta ..... 17
Polycoelia (Polycoelia) tenuis ..... 17
Polycoelia, Polycoelia (Polycoelia) ..... 17
polygonalis , Acanthastraea polygonalis ..... 21
polygonalis , Coenangia polygonalis ..... 26
Porifera ..... 64
Porites ..... 45
Porites strata ..... 45
Porites timorensis ..... 45
Porites timorensis formafossilisprima ..... 45
porosa, Echinopora porosa ..... 30
porosus , Stylonites porosus ..... 55
poseidonis, Flabellum poseidonis ..... 32
praecrispata, Oulastrea praecrispata ..... 42
praecursor, Fungia praecursor ..... 34
praemorsa , Phacellopegma praemorsa ..... 66
pressulus , Ceratocyathus pressulus ..... 25
procumbens, Paracyathus procumbens ..... 43
progoensis, Goniastrea progoensis ..... 35
progoensis, Schizaster progoensis ..... 62
Progyrosmilia ..... 46
Progyrosmilia regularis ..... 46
Progyrosmilia vacua ..... 46
Prosmilia ..... 17
Prosmilia compressa ..... 17
Prosmilia cyathophylloides ..... 17
Protoctista ..... 67
pseudoechinata, Fungia pseudoechinata ..... 34
Pseudofavosites ..... 54
Pseudofavosites stylifer ..... 54
Pseudofavosites stylifer septosa ..... 55
Pseudopechinus ..... 60
Pseudopechinus percultus ..... 60
Pseudopechinus percultus oligoporus ..... 60
pulchella , Eupatagus (Brissoides) pulchella ..... 56
purpurea, Leptastrea purpurea ..... 39
Pycnospongia ..... 66
Pycnospongia timorensis ..... 66

## R

radiata , Lepidocyclina (Eulepidina) radiata ..... 68
radiatus, Odontocyathus radiatus ..... 41
radiciforme , Plerophyllum radiciforme ..... 17
radiciformis, Ufimia radiciformis ..... 19
radiciformis, Ufimia radiciformis radiciformis ..... 19

Radiolites ..... 63
recta , Symphyllia recta ..... 48
rectangularis , Coelastraea rectangularis ..... 25
regularis , Palaeacis regularis ..... 54
regularis , Progyrosmilia regularis ..... 46
reini , Stylocidaris reini ..... 63
relicta , Favosites relicta ..... 51
rembangensis, Heterocyathus rembangensis ..... 37
Rhodophyta ..... 69
robusta , Echinophyllia robusta ..... 29
robustum, Duplophyllum (Euryphyllum) robustum ..... 13
rosaceus, Clypeaster rosaceus ..... 57
rothpletzi, Dibunophyllum rothpletzi ..... 12
rotundatus, Pericosmus rotundatus ..... 61
rousseanus, Heterocyathus rousseanus ..... 37
rubiola , Tubipora rubiola ..... 9
rubrum, Flabellum rubrum ..... 32
Rugosa ..... 9
rutteni , Astreopora rutteni ..... 24
rutteni , Dendrophyllia rutteni ..... 29
rutteni , Lepidocyclina (Eulepidina) rutteni ..... 68

## S

sandalinus, Heterocyathus sandalinus ..... 37
sangkoelirangensis, Pironastraea sangkoelirangensis ..... 45
Scalariogyra ..... 46
Scalariogyra escharoides ..... 46
Schizaster ..... 62
Schizaster japonicus ..... 62
Schizaster progoensis ..... 62
Schizaster subrhomboidalis ..... 62
Schizophorites ..... 55
Schizophorites dubiosus ..... 55
schmidti, Trochocyathus schmidti ..... 49
schneideri, Coelopleuris schneideri ..... 57
Scleractinia ..... 21
Scutella decagona ..... 61
semarangensis , Solenastraea semarangensis ..... 46
septosa , Pseudofavosites stylifer septosa ..... 55
Seriatopora ..... 46
Seriatopora irregularis ..... 46
Seriatopora ornata ..... 46
sibogae , Fungia sibogae ..... 34
similis , Pleramplexus similis ..... 16
simplicitexta , Goniastrea simplicitexta ..... 35
singularis, Coeloria singularis ..... 26
sinuata , Javanoseris sinuata ..... 39
Sismondia ..... 62
Sismondia javana ..... 62
sokkohensis , Stylophora sokkohensis ..... 47
Solenastraea ..... 46
Solenastraea arborescens ..... 28
Solenastraea semarangensis ..... 46
solidior, Hydnophora solidior ..... 38
somervillei , Fungia somervillei ..... 34
sp. , Gertholites sp. ..... 52
Spatangus affinis ..... 60
speciosa, Favia speciosa ..... 30
speciosa, Pachyseris speciosa ..... 43
Sphenotrochus ..... 46
Sphenotrochus viola ..... 46
Spineria ..... 18
Spineria (Cystina) ..... 18
Spineria (Cystina) ultima ..... 18
Spineria (Cystina) uniformis ..... 18
Spineria (Spineria) ..... 18
Spineria (Spineria) diplochone ..... 18
Spineria, Spineria (Spineria) ..... 18
spinosa , Acanthocyathus spinosa ..... 21
spinosa , Dictyaraea micrantha var. spinosa ..... 29
spinosa , Lithophyllia spinosa ..... 40
spinosum, Lophophyllidium spinosum ..... 14
spongicola, Monotrypella spongicola ..... 8
Stephanoceras ..... 64
Stephanoceras etheridgei ..... 64
Stephanocyathus ..... 47
Stephanocyathus magnificus ..... 47
Stephanoseris ..... 47
Stephanoseris carthausi ..... 47
stokesi , Flabellum stokesi ..... 32
stokesii, Paracyathus stokesii ..... 43
strata, Porites strata ..... 45
Striatopora ..... 55
Studeria ..... 63
stylifer, Pseudofavosites stylifer ..... 54
Stylocidaris ..... 63
Stylocidaris reini ..... 63
Stylohelia ..... 47
Stylohelia mamillata ..... 47
Stylonites ..... 55
Stylonites porosus ..... 55
Stylophora ..... 47
Stylophora coalescens ..... 47
Stylophora digitata ..... 47
Stylophora gemmans ..... 47
Stylophora granulata ..... 47
Stylophora pocilloporoides ..... 47
Stylophora sokkohensis ..... 47
Stylophora tenuissima ..... 48
Stylophora verrucosa ..... 48
stylophylloides , Montlivaltia stylophylloides ..... 40
Stylophyllopsis ..... 48
Stylophyllopsis timoricus ..... 48
subangulata , Echinolampas subangulata ..... 58
subpaumotensis, Fungia subpaumotensis ..... 34
subrhomboidalis , Schizaster subrhomboidalis ..... 62
sundaiana , Conosmilia sundaiana ..... 27
sundaica, Breynia sundaica ..... 56
sundaica, Chondrocidaris sundaica ..... 56
sundaica, Phyllacanthus dubius sundaica ..... 61
sundaicus , Odontocyathus sundaicus ..... 41
Symphyllia ..... 48
Symphyllia molengraaffi ..... 48
Symphyllia recta ..... 48
Synaraea ..... 48
Synaraea javana ..... 48

## T

Tabulata ..... 50
tabulata, Orbicella tabulata ..... 41
tabulatum , Pentaphyllum (Tachylasma) beyrichi var. tabulatum ..... 15
Tachylasma, Pentaphyllum (Tachylasma) ..... 14
Temnotetra ..... 63
tenella , Hydnophora tenella ..... 38
tenuatum, Laganum tenuatum ..... 59
tenuidens , Goniopora tenuidens ..... 36
tenuis, Favites pentagona tenuis ..... 31
tenuis, Polycoelia (Polycoelia) tenuis ..... 17
tenuis, Turbinaria tenuis ..... 49
tenuissima, Stylophora tenuissima ..... 48
testudinarius , Clypeaster testudinarius ..... 57
Thecosmilia ..... 48
Thecosmilia caespitosa ..... 48
Thecosmilia caespitosa var. minor ..... 48
Thecosmilia fenestrata ..... 48
Thecosmilia fenestrata var. multiseptata ..... 48
Thecosmilia molengraaffi ..... 48
Timorella ..... 66
Timorella permica ..... 66
timorense , Pentaphyllum (Tachylasma) timorense ..... 15
timorensis, Pemmatites timorensis ..... 66
timorensis, Pericosmus timorensis ..... 61
timorensis, Porites timorensis ..... 45

timorensis, Pycnospongia timorensis ..... 66
timorica, Aulopora timorica ..... 50
timorica, Montlivaltia timorica ..... 40
timorica, Wentzelella timorica ..... 20
timoricus , Stylophyllopsis timoricus ..... 48
Timorphyllum ..... 18
Timorphyllum wanneri ..... 18
Timorphyllum wanneri var. ajermatiensis ..... 19
Timorphyllum wanneri variabile ..... 19
Timorphyllum wanneri wanneri ..... 19
torquatum , Clisiophyllum torquatum ..... 12
torulosa, Coelocoenia torulosa ..... 25
Trachyphyllia ..... 49
Trachyphyllia crassa ..... 49
Trachypsammia ..... 55
Trachypsammia dendroides ..... 55
transiens , Lepidocyclina transiens ..... 68
Treptoceras , Bullatimorphites (Treptoceras) ..... 64
triadica, Zaphrenthis triadica ..... 21
Tristomanthus ..... 63
Trochocyathus ..... 49
Trochocyathus laterocristatus ..... 49
Trochocyathus schmidti ..... 49
Trochoseris ..... 49
Trochoseris florescens ..... 49
Tropidocyathus ..... 49
Tropidocyathus affinis ..... 49
Tropidocyathus nudus ..... 49
tuber , Hemifaorina tuber ..... 59
tuberculatus, Deltocyathus tuberculatus ..... 28
tuberculatus, Hemiaster tuberculatus ..... 59
tubifer , Palaeacis tubifer ..... 54
tubifera, Cyphastraea tubifera ..... 28
tubifex , Mycedium tubifex ..... 41
Tubipora ..... 9
Tubipora rubiola ..... 9
tubulosa, Palaeoderma tubulosa ..... 65
tubulosum , Dibunophyllum tubulosum ..... 12
tubulosum , Wannerophyllum tubulosum ..... 20
tumescens , Clypeaster tumescens ..... 57
Turbinaria ..... 49
Turbinaria tenuis ..... 49
turbinata , Antillia turbinata ..... 23
typica, Lonsdaleiastraea typica ..... 14
typicum , Pentaphyllum (Tachylasma) timorense typicum ..... 16

## U

Ufimia ..... 19
Ufimia radiciformis ..... 19
Ufimia radiciformis defecta ..... 19
Ufimia radiciformis radiciformis ..... 19
uhligi, Bullatimorphites (Treptoceras) uhligi ..... 64
ultima, Spineria (Cystina) ultima ..... 18
uniformis , Spineria (Cystina) uniformis ..... 18

## V

vacua , Progyrosmilia vacua ..... 46
vandijki, Pachyseris vandijki ..... 42
variabile , Flabellum variabile ..... 32
variabile , Lonsdaleia variabile ..... 14
variabile , Timorphyllum wanneri variabile ..... 19
variabilis, Anisocoenia variabilis ..... 23
variabilis, Balanophyllia variabilis ..... 24
variabilis, Heterocoenites variabilis ..... 53
verbeeki, Pattalophyllia verbeeki ..... 43
Verbeekiella ..... 20
Verbeekiella australis ..... 20
Verbeekiella australis forma elongata ..... 20
Verbeekiella permica ..... 20
verrucosa , Heterastridium conglobatum var. verrucosa ..... 9
verrucosa , Stylophora verrucosa ..... 48
vetusta , Halomitra vetusta ..... 36
vinassai, Lonsdaleiastraea vinassai ..... 14
viola , Sphenotrochus viola ..... 46
Virgola ..... 66
Virgula ..... 66
Virgula? malayica ..... 66

## W

wanneri , Hindia wanneri ..... 67
wanneri , Timorphyllum wanneri ..... 18
wanneri , Timorphyllum wanneri wanneri ..... 19
Wannerophyllum ..... 20
Wannerophyllum cristatum ..... 20
Wannerophyllum tubulosum ..... 20
weaveri , Convexastrea weaveri ..... 27
weberi, Plerophyllum weberi ..... 17
Wentzelella ..... 20
Wentzelella timorica ..... 20
wichmanni , Carcinophyllum wichmanni ..... 11

## Z

Zaphrenthis ..... 21
Zaphrenthis phillipsi ..... 21
Zaphrenthis triadica ..... 21
zaphrentoides , Duplophyllum (Duplophyllum) zaphrentoides ..... 12

**Plates**

# Plate 1

Fig. 1. *Dybowskiella grandis* in Gerth (1938) (RGM 525550, transverse section)
Fig. 2. *Hexagonella sp.* in Gerth (1938) (RGM 525551, tangential section)
Fig. 3. *Monotrypella spongicola* (syntype) in Vinassa de Regny (1915) (THDKA 12845, overview)
Fig. 4. *Monotrypella spongicola* (syntype) in Vinassa de Regny (1915) (THDKA 12845, transverse section)
Fig. 5. *Disjectopora dubia* (holotype) in Vinassa de Regny (1915) (THDKA 12844, overview)
Fig. 6. *Isis polyacantha* in Felix (1920) (THDKA 13665, side view)
Fig. 7. *Isis polyacantha* in Felix (1920) (THDKA 13665, transverse section)
Fig. 8. *Isis polyacantha* in Felix (1920) (THDKA 13663, side view)
Fig. 9. *Isis polyacantha* in Felix (1920) (THDKA 13663, transverse section)
Fig. 10. *Isis polyacantha* in Felix (1920) (THDKA 13664, side view)
Fig. 11. *Isis polyacantha* in Felix (1920) (THDKA 13664, transverse section)
Fig. 12. *Isis sp.* in Umbgrove (1945) (RGM 77553, transverse section)
Fig. 13. *Isis sp.* in Umbgrove (1945) (RGM 77553, transverse section)
Fig. 14. *Isis sp.* in Umbgrove (1945) (RGM 77553, side view)
Fig. 15. *Isis sp.* in Umbgrove (1945) (RGM 167663, overview)

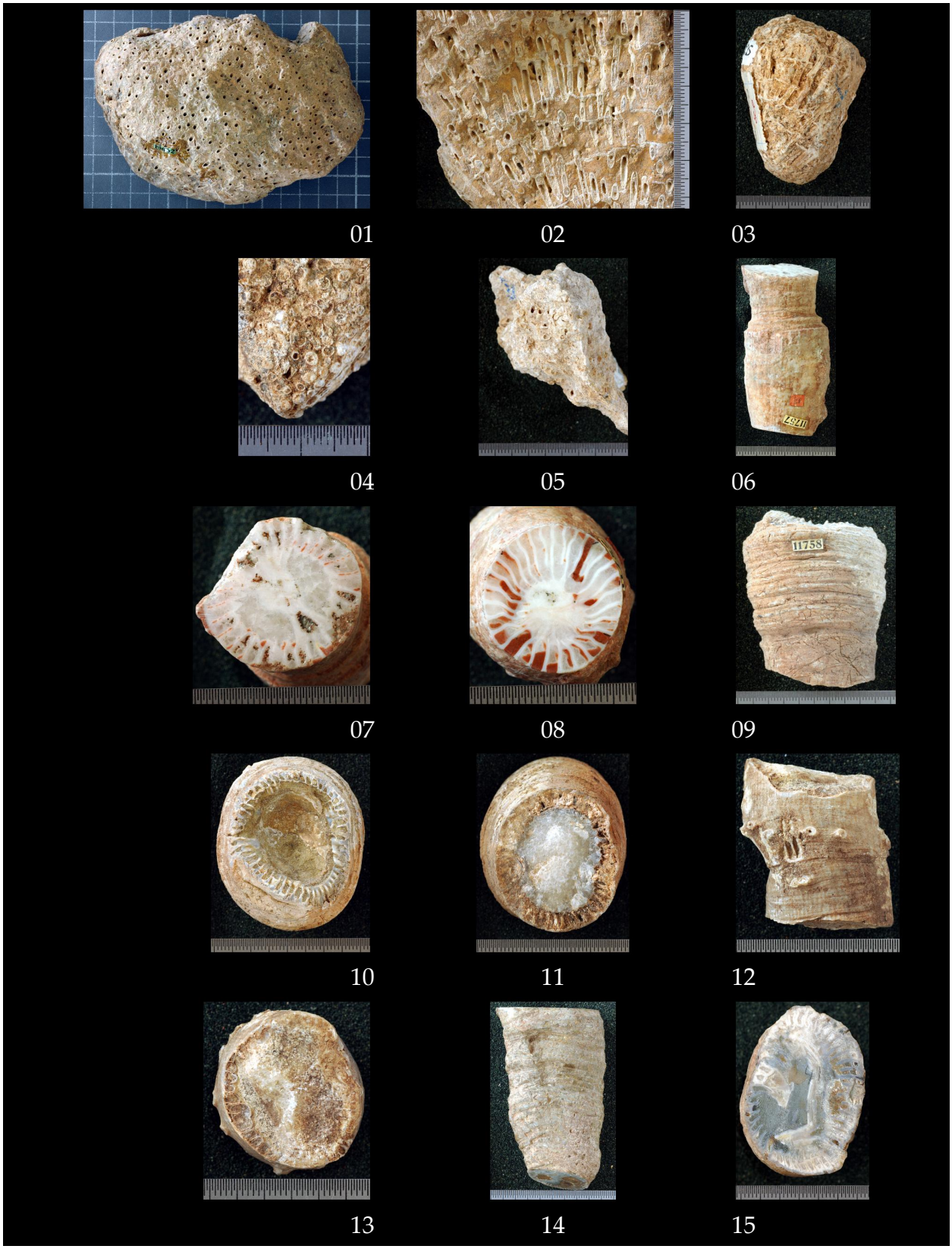
**Plate 1**



# Plate 2

Fig. 1. *Tubipora rubiola* in Felix (1920) (THDKA 13662, overview)
Fig. 2. *Tubipora rubiola* in Felix (1920) (THDKA 13662, side view)
Fig. 3. *Tubipora sp.* in Umbgrove (1945) (RGM 77551, side view)
Fig. 4. *Tubipora sp.* in Umbgrove (1945) (RGM 77551, top view)
Fig. 5. *Tubipora sp.* in Umbgrove (1945) (RGM 77552, top view)
Fig. 6. *Amplexocarinia abichi* in Schouppé & Stacul (1959), Koker (1924) (THDKA 11757, side view)
Fig. 7. *Amplexocarinia abichi* in Schouppé & Stacul (1959), Koker (1924) (THDKA 11757, transverse section)
Fig. 8. *Amplexocarinia abichi* in Schouppé & Stacul (1959), Koker (1924) (THDKA 11757, transverse section, throught lower part.)
Fig. 9. *Amplexocarinia bitauniensis* (holotype) in Schouppé & Stacul (1959), Gerth (1921a) (THDKA 11758, side view)
Fig. 10. *Amplexocarinia bitauniensis* (holotype) in Schouppé & Stacul (1959), Gerth (1921a) (THDKA 11758, top view)
Fig. 11. *Amplexocarinia bitauniensis* (holotype) in Schouppé & Stacul (1959), Gerth (1921a) (THDKA 11758, transverse section)
Fig. 12. *Amplexocarinia bitauniensis* (paratype) in Schouppé & Stacul (1959), Gerth (1921a) (THDKA 11759, side view)
Fig. 13. *Amplexocarinia bitauniensis* (paratype) in Schouppé & Stacul (1959), Gerth (1921a) (THDKA 11759, top view)
Fig. 14. *Amplexocarinia bitauniensis* (paratype) in Schouppé & Stacul (1959) (RGM 525663, side view)
Fig. 15. *Amplexocarinia bitauniensis* (paratype) in Schouppé & Stacul (1959) (RGM 525663, transverse section, top.)

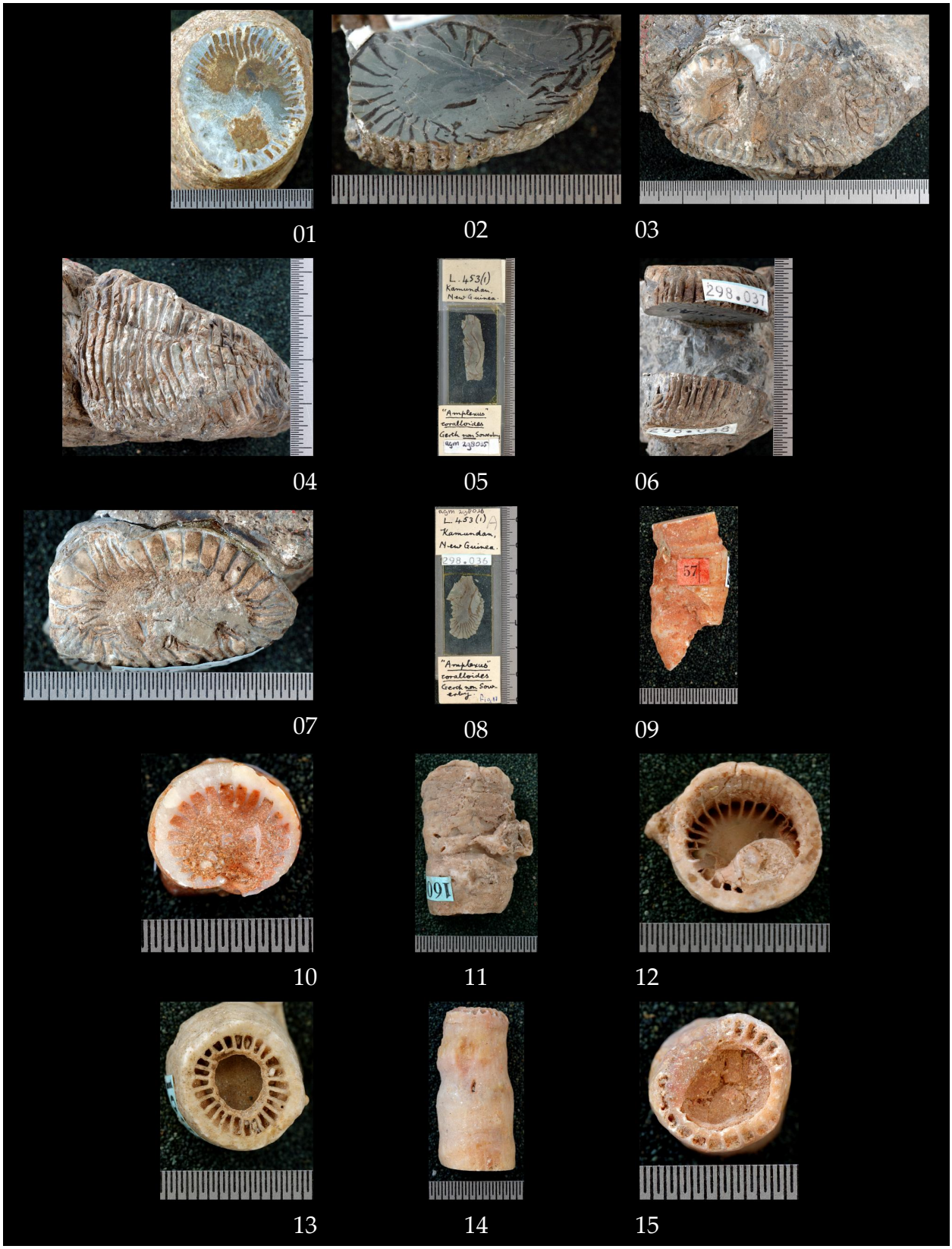
**Plate 2**



# Plate 3

Fig. 1. *Amplexocarinia bitauniensis* (paratype) in Schouppé & Stacul (1959) (RGM 525663, transverse section, bottom.)
Fig. 2. *Amplexocarinia bitauniensis* in Visser & Hermes (1962) (RGM 298038b, transverse section)
Fig. 3. *Amplexocarinia bitauniensis* in Visser & Hermes (1962) (RGM 298035, top view)
Fig. 4. *Amplexocarinia bitauniensis* in Visser & Hermes (1962) (RGM 298035, side view)
Fig. 5. *Amplexocarinia bitauniensis* in Visser & Hermes (1962) (RGM 298035, detail, thin section with same number, but it can't be of the same specimen.)
Fig. 6. *Amplexocarinia bitauniensis* in Visser & Hermes (1962) (RGM 298037, side view)
Fig. 7. *Amplexocarinia bitauniensis* in Visser & Hermes (1962) (RGM 298037, top view)
Fig. 8. *Amplexocarinia bitauniensis* in Visser & Hermes (1962) (RGM 298036, transverse section)
Fig. 9. *Amplexocarinia geyeri* in Schouppé & Stacul (1959), *Amplexocarinia jonkeri* (syntype) in Koker (1924) (RGM 529874, side view)
Fig. 10. *Amplexocarinia geyeri* in Schouppé & Stacul (1959), *Amplexocarinia jonkeri* (syntype) in Koker (1924) (RGM 529874, transverse section)
Fig. 11. *Amplexocarinia jonkeri* (lectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 16087, side view)
Fig. 12. *Amplexocarinia jonkeri* (lectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 16087, top view)
Fig. 13. *Amplexocarinia jonkeri* (lectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 16087, transverse section)
Fig. 14. *Amplexocarinia jonkeri* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (RGM 529850, side view)
Fig. 15. *Amplexocarinia jonkeri* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (RGM 529850, top view)

**Plate 3**


01
02
03
04
05
L.453(1)
Kamundan,
New Guinea
"Amplexus"
coralloides
Gerth von Sowerby
RGM 23905
06
298.037
298.038
07
08
RGM 23905
L.453(1)A
Kamundan,
New Guinea
298.036
"Amplexus"
coralloides
Gerth von Sowerby
09
57
10
11
091
12
13
14
15

# Plate 4

Fig. 1. *Paralleynia leptoseptata* (paratype) in Schouppé & Stacul (1959), *Amplexocarinia jonkeri* (syntype) in Koker (1924) (RGM 529876, side view)
Fig. 2. *Paralleynia leptoseptata* (paratype) in Schouppé & Stacul (1959), *Amplexocarinia jonkeri* (syntype) in Koker (1924) (RGM 529876, transverse section, bottom.)
Fig. 3. *Paralleynia leptoseptata* (paratype) in Schouppé & Stacul (1959), *Amplexocarinia jonkeri* (syntype) in Koker (1924) (RGM 529876, transverse section, top.)
Fig. 4. *Amplexocarinia naliensis* (lectotype) in Schouppé & Stacul (1959), syntype in Gerth (1921a) (THDKA 16086, side view)
Fig. 5. *Amplexocarinia naliensis* (lectotype) in Schouppé & Stacul (1959), syntype in Gerth (1921a) (THDKA 16086, top view)
Fig. 6. *Amplexocarinia naliensis* (paralectotype) in Schouppé & Stacul (1959), syntype in Gerth (1921a) (RGM 525639, side view)
Fig. 7. *Amplexocarinia naliensis* (paralectotype) in Schouppé & Stacul (1959), syntype in Gerth (1921a) (RGM 525639, transverse section)
Fig. 8. *Amplexocarinia naliensis* (paralectotype) in Schouppé & Stacul (1959), syntype in Gerth (1921a) (THDKA 11760, tangential section)
Fig. 9. *Amplexocarinia naliensis* (paralectotype) in Schouppé & Stacul (1959), syntype in Gerth (1921a) (THDKA 11760, transverse section, on top.)
Fig. 10. *Amplexocarinia naliensis* (paralectotype) in Schouppé & Stacul (1959), syntype in Gerth (1921a) (THDKA 11760, transverse section, on bottom.)
Fig. 11. *Amplexocarinia naliensis* (paralectotype) in Schouppé & Stacul (1959), syntype in Gerth (1921a) (THDKA 11761, side view)
Fig. 12. *Amplexocarinia naliensis* (paralectotype) in Schouppé & Stacul (1959), syntype in Gerth (1921a) (THDKA 11761, top view)
Fig. 13. *Amplexocarinia naliensis* (paralectotype) in Schouppé & Stacul (1959), syntype in Gerth (1921a) (THDKA 11761, transverse section)
Fig. 14. *Amplexocarinia naliensis* (paralectotype) in Schouppé & Stacul (1959), syntype in Gerth (1921a) (THDKA 11762, side view)
Fig. 15. *Amplexocarinia naliensis* (paralectotype) in Schouppé & Stacul (1959), syntype in Gerth (1921a) (THDKA 11762, top view)

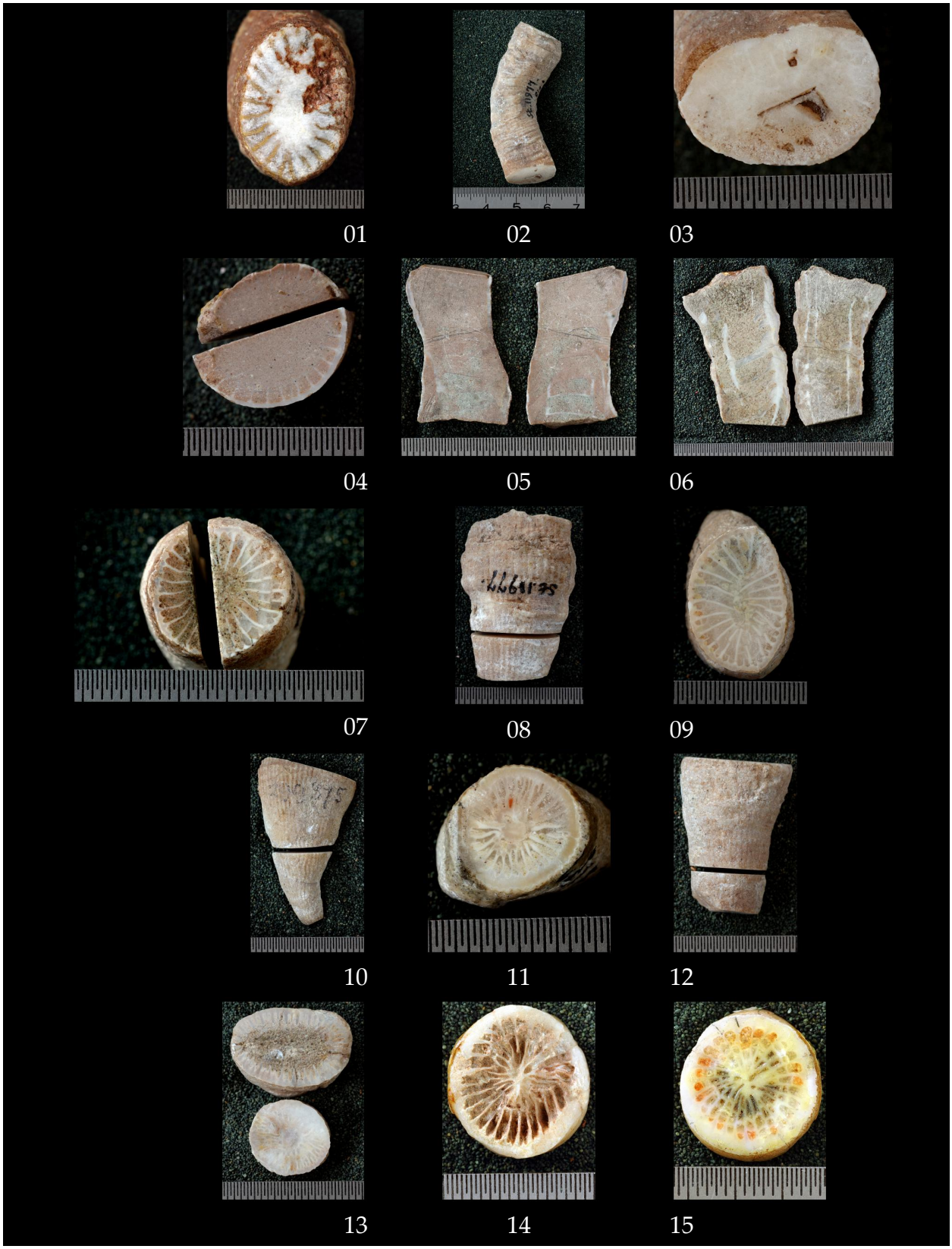
**Plate 4**



# Plate 5

Fig. 1. *Amplexocarinia naliensis* (paralectotype) in Schouppé & Stacul (1959), syntype in Gerth (1921a) (THDKA 11762, transverse section)
Fig. 2. *Amplexus beyrichi* (syntype) in Martin (1883) (RGM 11977, side view)
Fig. 3. *Amplexus beyrichi* (syntype) in Martin (1883) (RGM 11977, transverse section)
Fig. 4. *Amplexus beyrichi* (syntype) in Martin (1883) (RGM 299372, transverse section)
Fig. 5. *Amplexus beyrichi* (syntype) in Martin (1883) (RGM 299372, radial section)
Fig. 6. *Amplexus beyrichi* (syntype) in Martin (1883) (RGM 299373, radial section)
Fig. 7. *Amplexus beyrichi* (syntype) in Martin (1883) (RGM 299373, transverse section)
Fig. 8. *Amplexus beyrichi* (syntype) in Martin (1883) (RGM 299374, side view)
Fig. 9. *Amplexus beyrichi* (syntype) in Martin (1883) (RGM 299374, transverse section)
Fig. 10. *Amplexus beyrichi* (syntype) in Martin (1883) (RGM 299375, side view)
Fig. 11. *Amplexus beyrichi* (syntype) in Martin (1883) (RGM 299375, transverse section)
Fig. 12. *Amplexus beyrichi* (syntype) in Martin (1883) (RGM 299376, side view)
Fig. 13. *Amplexus beyrichi* (syntype) in Martin (1883) (RGM 299376, transverse section)
Fig. 14. *Basleophyllum incertum* (lectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11744, top view)
Fig. 15. *Basleophyllum incertum* (lectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11744, transverse section)

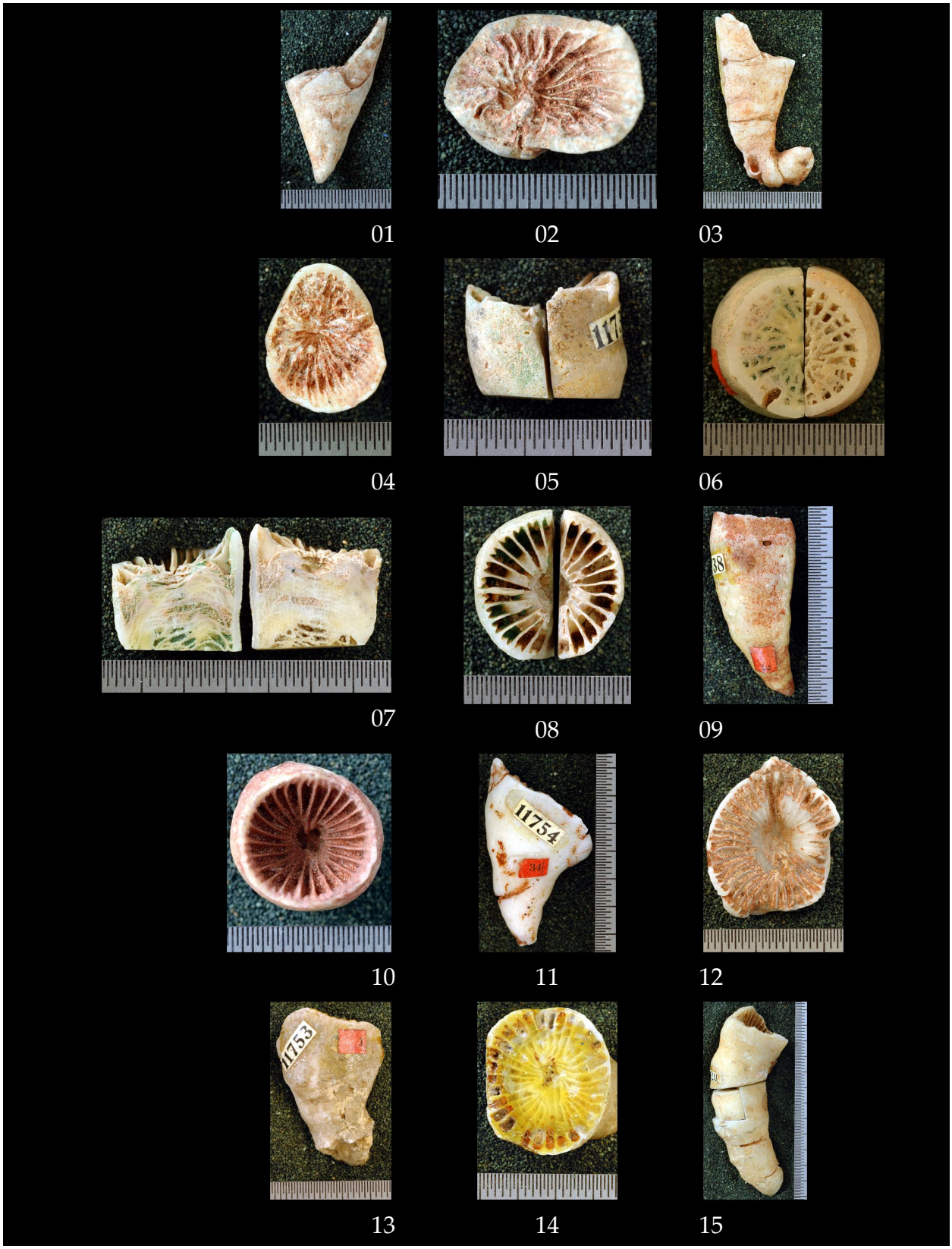
**Plate 5**



# Plate 6

Fig. 1. *Basleophyllum incertum* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (RGM 525572, side view)
Fig. 2. *Basleophyllum incertum* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (RGM 525572, top view)
Fig. 3. *Basleophyllum incertum* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11745, side view)
Fig. 4. *Basleophyllum incertum* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11745, top view)
Fig. 5. *Basleophyllum incertum* in Schouppé & Stacul (1959), Koker (1924) (THDKA 11737, side view)
Fig. 6. *Basleophyllum incertum* in Schouppé & Stacul (1959), Koker (1924) (THDKA 11737, transverse section)
Fig. 7. *Basleophyllum incertum* in Schouppé & Stacul (1959), Koker (1924) (THDKA 11737, radial section)
Fig. 8. *Basleophyllum incertum* in Schouppé & Stacul (1959), Koker (1924) (THDKA 11737, top view)
Fig. 9. *Basleophyllum incertum* in Schouppé & Stacul (1959), Koker (1924) (THDKA 11738, side view)
Fig. 10. *Basleophyllum incertum* in Schouppé & Stacul (1959), Koker (1924) (THDKA 11738, top view)
Fig. 11. *Basleophyllum indicum* in Schouppé & Stacul (1959), holotype in Koker (1924) (THDKA 11754, side view)
Fig. 12. *Basleophyllum indicum* in Schouppé & Stacul (1959), holotype in Koker (1924) (THDKA 11754, top view)
Fig. 13. *Basleophyllum indicum* in Schouppé & Stacul (1959), *Zaphrenthis phillipsi* in Koker (1924) (THDKA 11753, side view)
Fig. 14. *Basleophyllum indicum* in Schouppé & Stacul (1959), *Zaphrenthis phillipsi* in Koker (1924) (THDKA 11753, transverse section)
Fig. 15. *Basleophyllum pachyderma* (lectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11750, side view)

**Plate 6**



# Plate 7

Fig. 1. *Basleophyllum pachyderma* (lectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11750, top view)
Fig. 2. *Basleophyllum pachyderma* (lectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11750, transverse section)
Fig. 3. *Basleophyllum pachyderma* (lectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11750, radial section)
Fig. 4. *Basleophyllum pachyderma* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (RGM 525600, transverse section)
Fig. 5. *Basleophyllum pachyderma* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11747, tangential section)
Fig. 6. *Basleophyllum pachyderma* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (RGM 525552, side view)
Fig. 7. *Basleophyllum pachyderma* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (RGM 525552, basal view)
Fig. 8. *Basleophyllum pachyderma* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (RGM 525552, transverse section)
Fig. 9. *Basleophyllum pachyderma* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (RGM 525553, side view)
Fig. 10. *Basleophyllum pachyderma* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (RGM 525553, transverse section)
Fig. 11. *Basleophyllum pachyderma* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (RGM 525554, side view)
Fig. 12. *Basleophyllum pachyderma* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (RGM 525554, top view)
Fig. 13. *Basleophyllum pachyderma* (paralectotype) in Schouppé & Stacul (1959), Koker (1924) (THDKA 11746, side view)
Fig. 14. *Basleophyllum pachyderma* (paralectotype) in Schouppé & Stacul (1959), Koker (1924) (THDKA 11746, transverse section)
Fig. 15. *Basleophyllum pachyderma* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11748, side view)

**Plate 7**



# Plate 8

Fig. 1. *Basleophyllum pachyderma* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11748, top view)
Fig. 2. *Basleophyllum pachyderma* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11748, transverse section)
Fig. 3. *Basleophyllum pachyderma* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11749, side view)
Fig. 4. *Basleophyllum pachyderma* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11749, top view)
Fig. 5. *Basleophyllum pachyderma* in Schouppé & Stacul (1959), *Zaphrenthis phillipsi* in Koker (1924) (THDKA 11752, side view)
Fig. 6. *Basleophyllum pachyderma* in Schouppé & Stacul (1959), *Zaphrenthis phillipsi* in Koker (1924) (THDKA 11752, transverse section)
Fig. 7. *Caninia arundinacea* in Koker (1924) (THDKA 11756, side view)
Fig. 8. *Caninia arundinacea* in Koker (1924) (THDKA 11756, transverse section)
Fig. 9. *Caninia arundinacea* in Koker (1924) (THDKA 11756, transverse section)
Fig. 10. *Pleramplexus dissimilis* in Schindewolf (1942), holotype in Schindewolf (1940), *Caninia arundinacea* in Koker (1924) (THDKA 16075, side view)
Fig. 11. *Pleramplexus dissimilis* in Schindewolf (1942), holotype in Schindewolf (1940), *Caninia arundinacea* in Koker (1924) (THDKA 16075, top view)
Fig. 12. *Pleramplexus dissimilis* in Schindewolf (1942), holotype in Schindewolf (1940), *Caninia arundinacea* in Koker (1924) (THDKA 16075, basal view)
Fig. 13. *Pleramplexus dissimilis* in Schindewolf (1942), holotype in Schindewolf (1940), *Caninia arundinacea* in Koker (1924) (THDKA 16075, transverse section)
Fig. 14. *Dibunophyllum tubulosum* (syntype) in Gerth (1921a) (RGM 529825, side view)
Fig. 15. *Dibunophyllum tubulosum* (syntype) in Gerth (1921a) (RGM 529825, transverse section)

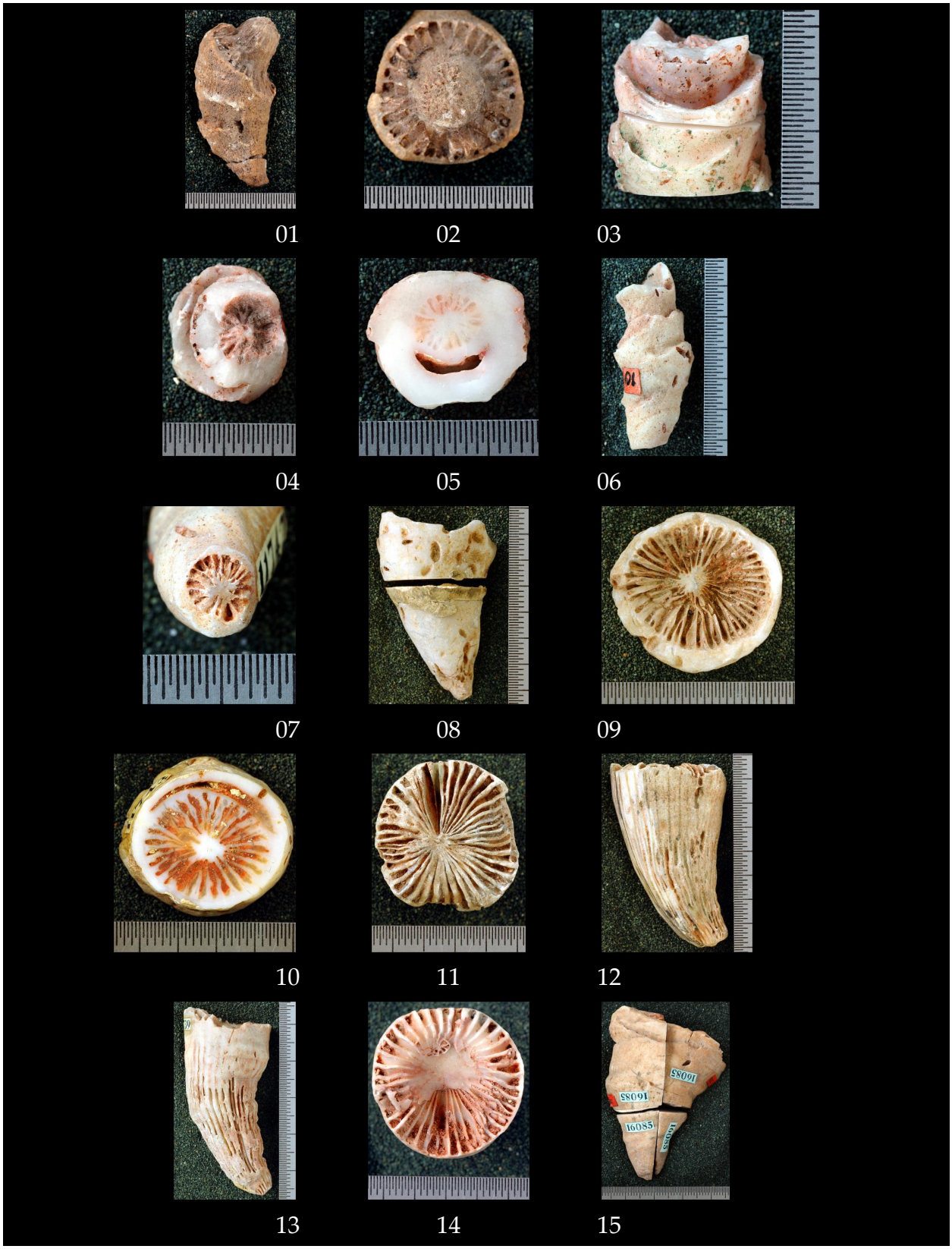
**Plate 8**



# Plate 9

Fig. 1. *Dibunophyllum tubulosum* (syntype) in Gerth (1921a) (RGM 529820, side view)
Fig. 2. *Dibunophyllum tubulosum* (syntype) in Gerth (1921a) (RGM 529820, top view)
Fig. 3. *Duplophyllum (Duplophyllum) calyculatum* (lectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11741, side view)
Fig. 4. *Duplophyllum (Duplophyllum) calyculatum* (lectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11741, top view)
Fig. 5. *Duplophyllum (Duplophyllum) calyculatum* (lectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11741, transverse section)
Fig. 6. *Duplophyllum (Duplophyllum) calyculatum* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11742, side view)
Fig. 7. *Duplophyllum (Duplophyllum) calyculatum* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11742, basal view)
Fig. 8. *Duplophyllum (Duplophyllum) zaphrentoides* in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11743, side view)
Fig. 9. *Duplophyllum (Duplophyllum) zaphrentoides* in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11743, top view)
Fig. 10. *Duplophyllum (Duplophyllum) zaphrentoides* in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11743, transverse section)
Fig. 11. *Duplophyllum (Euryphyllum) cainodon* (holotype) in Schouppé & Stacul (1959), Koker (1924) (THDKA 11740, top view)
Fig. 12. *Duplophyllum (Euryphyllum) cainodon* (holotype) in Schouppé & Stacul (1959), Koker (1924) (THDKA 11740, side view)
Fig. 13. *Duplophyllum (Euryphyllum) cainodon* in Koker (1924) (THDKA 11739, side view)
Fig. 14. *Duplophyllum (Euryphyllum) cainodon* in Koker (1924) (THDKA 11739, top view)
Fig. 15. *Duplophyllum (Euryphyllum) robustum* (holotype) in Schouppé & Stacul (1959), Koker (1924) (THDKA 16085, side view)

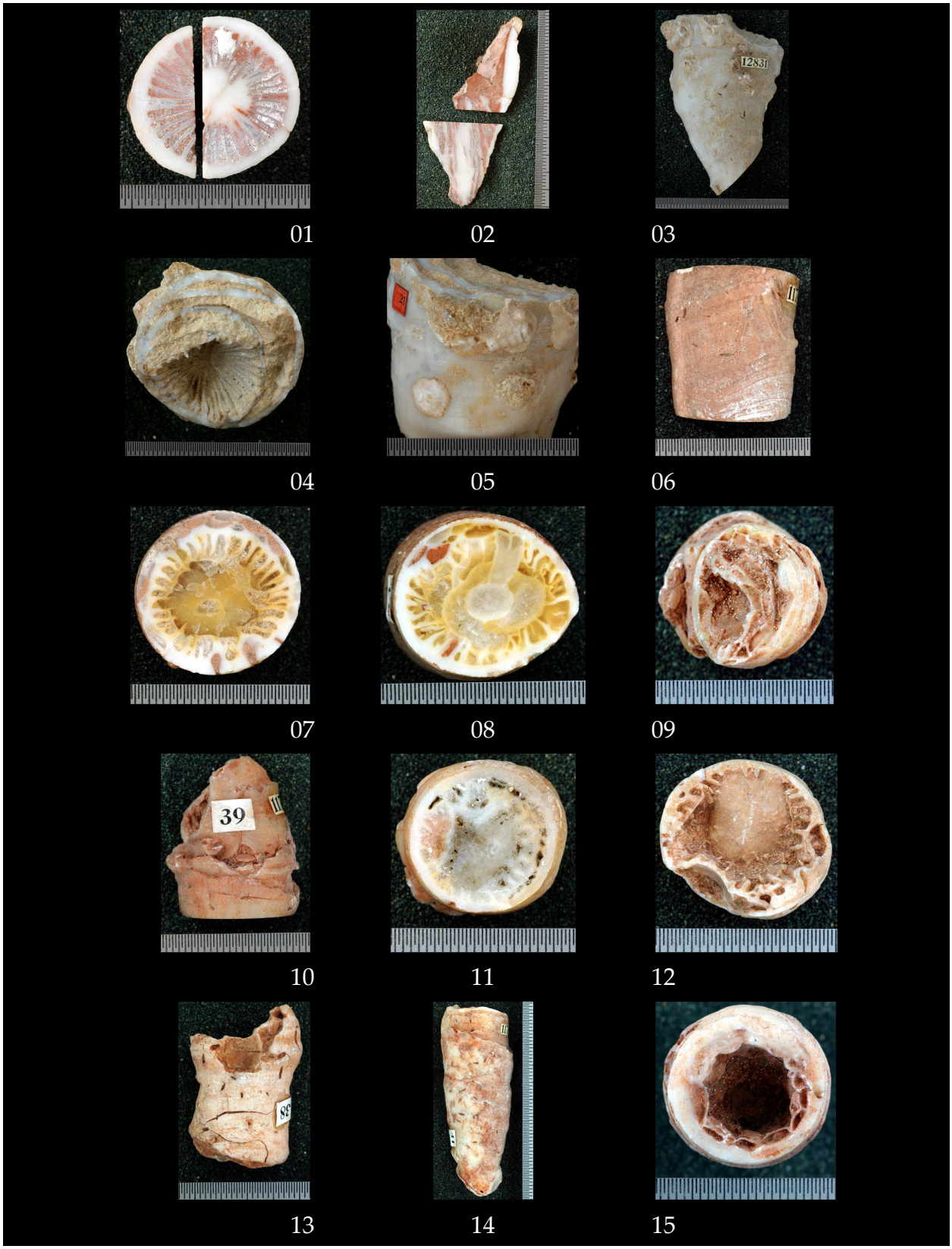
**Plate 9**



# Plate 10

Fig. 1. *Duplophyllum (Euryphyllum) robustum* (holotype) in Schouppé & Stacul (1959), Koker (1924) (THDKA 16085, transverse section)
Fig. 2. *Duplophyllum (Euryphyllum) robustum* (holotype) in Schouppé & Stacul (1959), Koker (1924) (THDKA 16085, radial section)
Fig. 3. *Duplophyllum (Euryphyllum) robustum* in Schouppé & Stacul (1959), *Zaphrenthis triadica* (holotype) in Koker (1924) (THDKA 12831, side view)
Fig. 4. *Duplophyllum (Euryphyllum) robustum* in Schouppé & Stacul (1959), *Zaphrenthis triadica* (holotype) in Koker (1924) (THDKA 12831, top view)
Fig. 5. *Duplophyllum (Euryphyllum) robustum* in Schouppé & Stacul (1959), *Zaphrenthis triadica* (holotype) in Koker (1924) (THDKA 12831, detail, bryozoa and crinoid feet attached to the coral.)
Fig. 6. *Endamplexus (Endamplexus) dentatus* (lectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11783, side view)
Fig. 7. *Endamplexus (Endamplexus) dentatus* (lectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11783, transverse section)
Fig. 8. *Endamplexus (Endamplexus) dentatus* (lectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11783, transverse section)
Fig. 9. *Endamplexus (Endamplexus) dentatus* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11779, top view)
Fig. 10. *Endamplexus (Endamplexus) dentatus* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11779, side view)
Fig. 11. *Endamplexus (Endamplexus) dentatus* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11779, transverse section)
Fig. 12. *Endamplexus (Endamplexus) dentatus* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11780, top view)
Fig. 13. *Endamplexus (Endamplexus) dentatus* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11780, side view)
Fig. 14. *Endamplexus (Endamplexus) dentatus* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11781, side view)
Fig. 15. *Endamplexus (Endamplexus) dentatus* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11781, top view)

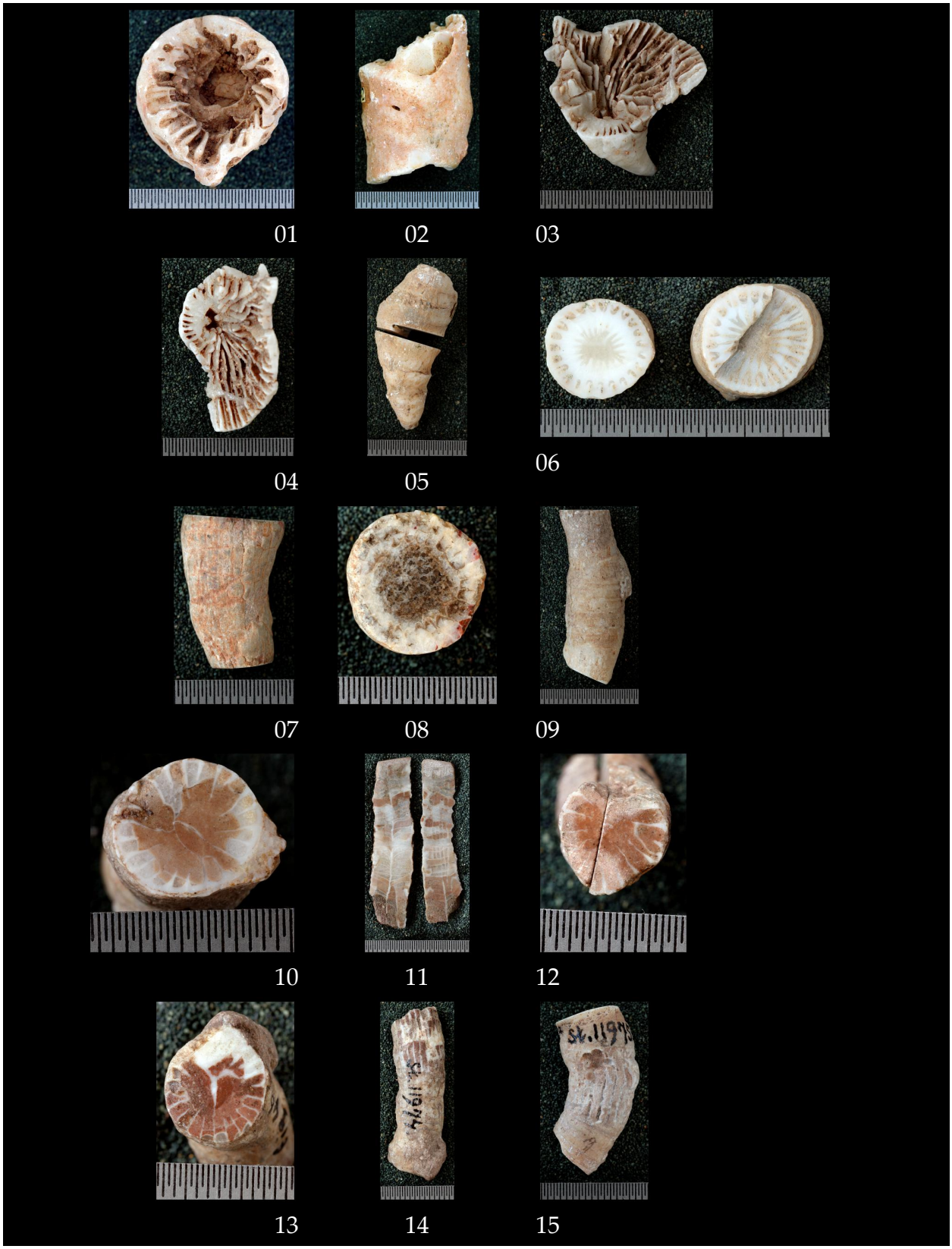
**Plate 10**



# Plate 11

Fig. 1. *Endamplexus (Endamplexus) dentatus* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11782, top view)
Fig. 2. *Endamplexus (Endamplexus) dentatus* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11782, side view)
Fig. 3. *Endothecium apertum* (lectotype) in Niermann (1975), syntype in Koker (1924) (THDKA 11770, side view)
Fig. 4. *Endothecium apertum* (lectotype) in Niermann (1975), syntype in Koker (1924) (THDKA 11770, top view)
Fig. 5. *Endothecium decipiens* (lectotype) in Niermann (1975), syntype in Koker (1924) (THDKA 11771, side view)
Fig. 6. *Endothecium decipiens* (lectotype) in Niermann (1975), syntype in Koker (1924) (THDKA 11771, transverse section)
Fig. 7. *Endothecium decipiens* (paralectotype) in Niermann (1975), syntype in Koker (1924) (THDKA 16074, side view)
Fig. 8. *Endothecium decipiens* (paralectotype) in Niermann (1975), syntype in Koker (1924) (THDKA 16074, transverse section)
Fig. 9. *Timorphyllum* in Gerth (1921a), *Lithostrotion sp.* in Martin (1883) (RGM 11974, side view)
Fig. 10. *Timorphyllum* in Gerth (1921a), *Lithostrotion sp.* in Martin (1883) (RGM 11974, transverse section)
Fig. 11. *Lithostrotion sp.* in Martin (1883) (RGM 299378, radial section)
Fig. 12. *Lithostrotion sp.* in Martin (1883) (RGM 299378, transverse section)
Fig. 13. *Lithostrotion sp.* in Martin (1883) (RGM 299379, transverse section)
Fig. 14. *Lithostrotion sp.* in Martin (1883) (RGM 299379, side view)
Fig. 15. *Lithostrotion sp.* in Martin (1883) (RGM 299381, side view)

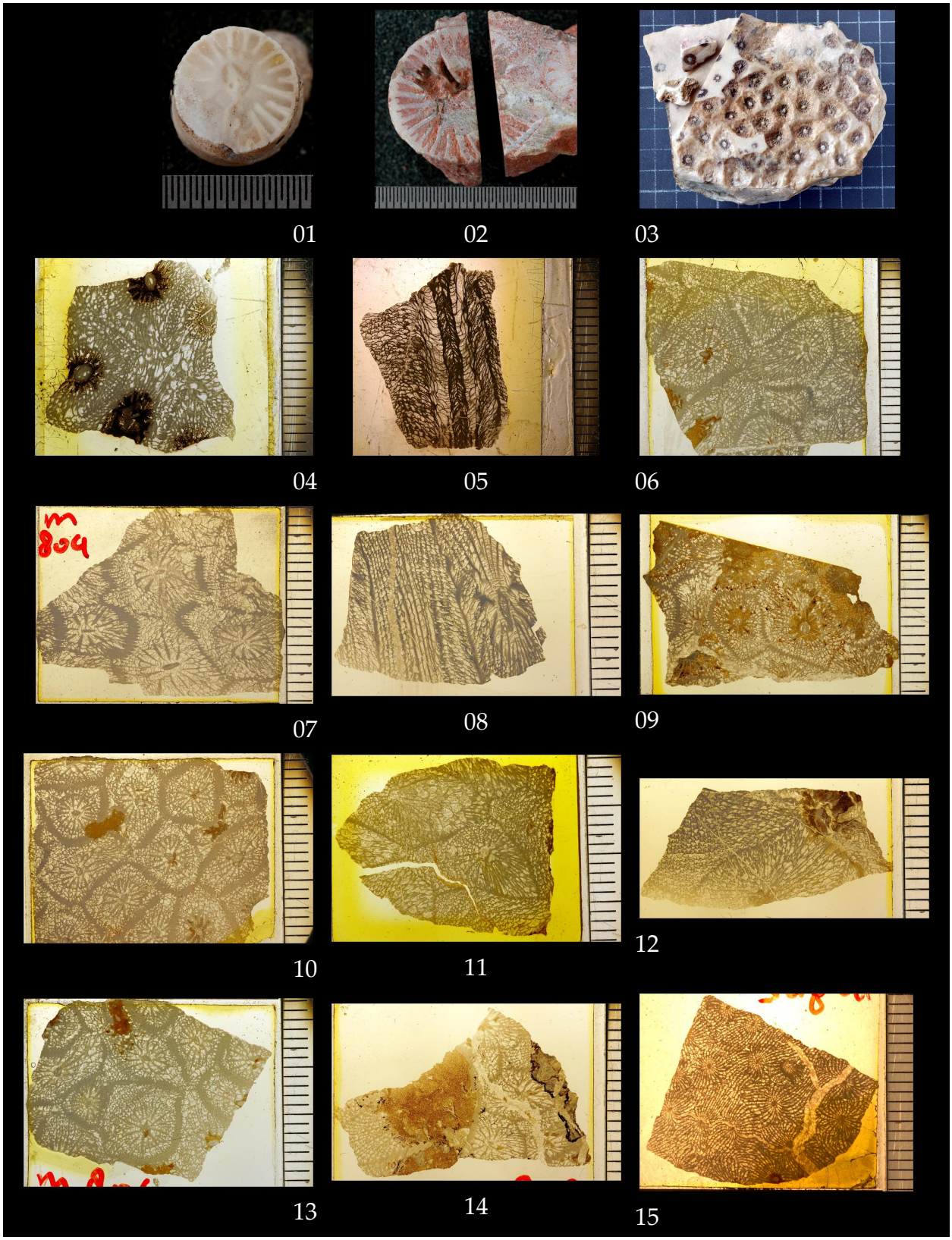
**Plate 11**



# Plate 12

Fig. 1. *Lithostrotion sp.* in Martin (1883) (RGM 299381, transverse section)
Fig. 2. *Lithostrotion sp.* in Martin (1883) (RGM 299377, transverse section)
Fig. 3. *Lonsdaleia molengraaffi* (holotype) in Gerth (1921a) (THDKA 16072, top view)
Fig. 4. *Lonsdaleia molengraaffi* (holotype) in Gerth (1921a) (RGM 529415, transverse section)
Fig. 5. *Lonsdaleia molengraaffi* (holotype) in Gerth (1921a) (RGM 529416, tangential section)
Fig. 6. *Lonsdaleia variabile* (syntype) in Gerth (1938) (RGM 525538, transverse section)
Fig. 7. *Lonsdaleia variabile* (syntype) in Gerth (1938) (RGM 525539, transverse section)
Fig. 8. *Lonsdaleia variabile* (syntype) in Gerth (1938) (RGM 525540, tangential section)
Fig. 9. *Lonsdaleia variabile* (syntype) in Gerth (1938) (RGM 525541, transverse section)
Fig. 10. *Lonsdaleia variabile* (syntype) in Gerth (1938) (RGM 525542, transverse section)
Fig. 11. *Lonsdaleia variabile* (syntype) in Gerth (1938) (RGM 525543, transverse section)
Fig. 12. *Lonsdaleia variabile* (syntype) in Gerth (1938) (RGM 525544, transverse section)
Fig. 13. *Lonsdaleia variabile* (syntype) in Gerth (1938) (RGM 525545, transverse section)
Fig. 14. *Lonsdaleia variabile* (syntype) in Gerth (1938) (RGM 525546, transverse section)
Fig. 15. *Lonsdaleiastraea typica* (syntype) in Gerth (1938) (RGM 525532, transverse section)

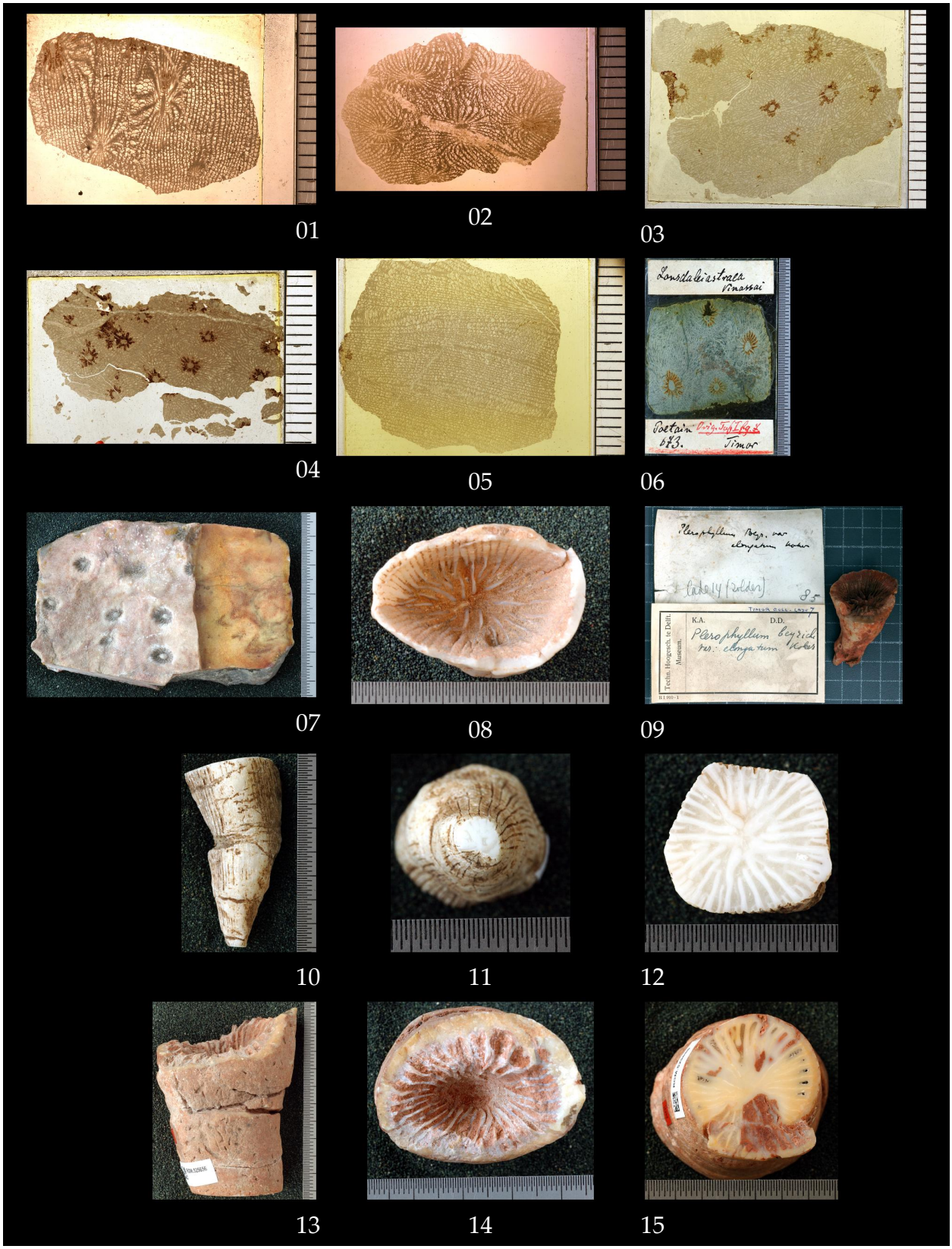
**Plate 12**



# Plate 13

Fig. 1. *Lonsdaleiastraea typica* (syntype) in Gerth (1938) (RGM 525533, tangential section)
Fig. 2. *Lonsdaleiastraea typica* (syntype) in Gerth (1938) (RGM 525534, tangential section)
Fig. 3. *Lonsdaleiastraea typica* (syntype) in Gerth (1938) (RGM 525535, transverse section)
Fig. 4. *Lonsdaleiastraea typica* (syntype) in Gerth (1938) (RGM 525536, transverse section)
Fig. 5. *Lonsdaleiastraea typica* (syntype) in Gerth (1938) (RGM 525537, tangential section)
Fig. 6. *Lonsdaleiastraea vinassai* (holotype) in Gerth (1921a) (RGM 529409, overview)
Fig. 7. *Lonsdaleiastraea vinassai* (holotype) in Gerth (1921a), Gerth (1921b) (THDKA 11792, top view)
Fig. 8. *Pentaphyllum (Tachylasma) beyrichi* in Niermann (1975), *Pentaphyllum (Tachylasma) beyrichi var. elongatum* (syntype) in Koker (1924) (RGM 525655, top view)
Fig. 9. *Pentaphyllum (Tachylasma) beyrichi var. elongatum* (syntype) in Koker (1924) (RGM 529722, overview)
Fig. 10. *Pentaphyllum (Tachylasma) makrodeuterum* (paratype) in Niermann (1975), *Pentaphyllum (Tachylasma) beyrichi var. elongatum* (syntype) in Koker (1924) (RGM 525658, side view)
Fig. 11. *Pentaphyllum (Tachylasma) makrodeuterum* (paratype) in Niermann (1975), *Pentaphyllum (Tachylasma) beyrichi var. elongatum* (syntype) in Koker (1924) (RGM 525658, basal view)
Fig. 12. *Pentaphyllum (Tachylasma) makrodeuterum* (paratype) in Niermann (1975), *Pentaphyllum (Tachylasma) beyrichi var. elongatum* (syntype) in Koker (1924) (RGM 525658, transverse section)
Fig. 13. *Pentaphyllum (Tachylasma) beyrichi var. elongatum* (syntype) in Koker (1924) (RGM 525656, side view)
Fig. 14. *Pentaphyllum (Tachylasma) beyrichi var. elongatum* (syntype) in Koker (1924) (RGM 525656, top view)
Fig. 15. *Pentaphyllum (Tachylasma) beyrichi var. elongatum* (syntype) in Koker (1924) (RGM 525656, transverse section)

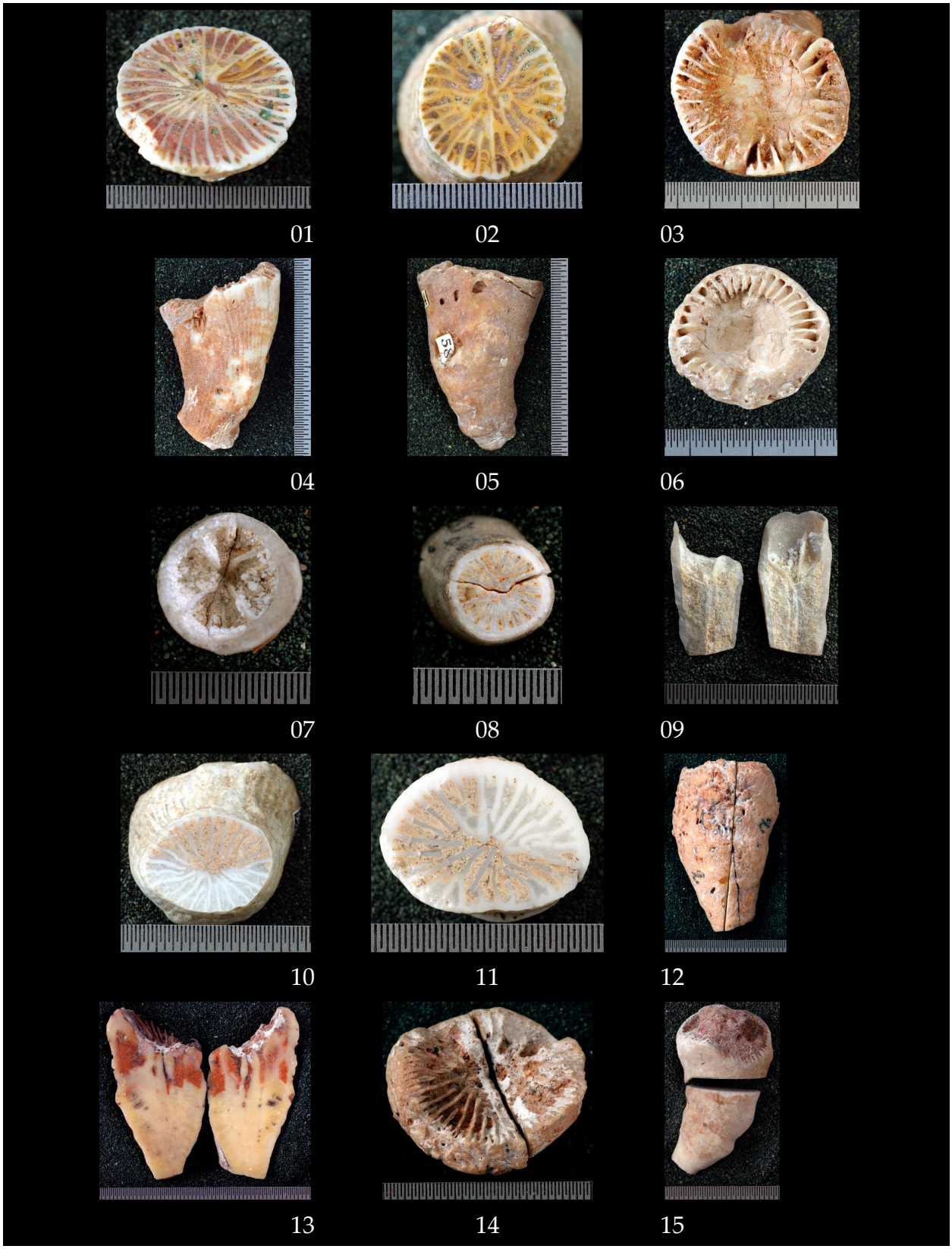
**Plate 13**



# Plate 14

Fig. 1. *Pentaphyllum (Tachylasma) beyrichi var. elongatum* (syntype) in Koker (1924) (RGM 525657, transverse section)
Fig. 2. *Pentaphyllum (Tachylasma) beyrichi var. elongatum* (syntype) in Koker (1924) (RGM 525657, transverse section)
Fig. 3. *Pleramplexus similis* in Niermann (1975), *Pentaphyllum (Tachylasma) beyrichi var. tabulatum* (syntype) in Koker (1924) (THDKA 11763, top view)
Fig. 4. *Pleramplexus similis* in Niermann (1975), *Pentaphyllum (Tachylasma) beyrichi var. tabulatum* (syntype) in Koker (1924) (THDKA 11763, side view)
Fig. 5. *Pentaphyllum (Tachylasma) beyrichi var. tabulatum* (syntype) in Koker (1924) (THDKA 11764, side view)
Fig. 6. *Pentaphyllum (Tachylasma) beyrichi var. tabulatum* (syntype) in Koker (1924) (THDKA 11764, top view)
Fig. 7. *Pentaphyllum (Tachylasma) gerthi* (holotype) in Soshkina (1941), *Polycoelia (Polycoelia) angusta* in Gerth (1921a) (THDKA 11772, top view)
Fig. 8. *Pentaphyllum (Tachylasma) gerthi* (holotype) in Soshkina (1941), *Polycoelia (Polycoelia) angusta* in Gerth (1921a) (THDKA 11772, transverse section)
Fig. 9. *Pentaphyllum (Tachylasma) gerthi* (holotype) in Soshkina (1941), *Polycoelia (Polycoelia) angusta* in Gerth (1921a) (THDKA 11772, radial section)
Fig. 10. *Pentaphyllum (Tachylasma) isoseptatum* in Niermann (1975), syntype in Koker (1924) (RGM 525660, transverse section)
Fig. 11. *Pentaphyllum (Tachylasma) isoseptatum* (syntype) in Koker (1924) (RGM 525661, transverse section)
Fig. 12. *Pentaphyllum (Tachylasma) timorense* (syntype) in Gerth (1919) (RGM 529539, side view)
Fig. 13. *Pentaphyllum (Tachylasma) timorense* (syntype) in Gerth (1919) (RGM 529539, radial section)
Fig. 14. *Pentaphyllum (Tachylasma) timorense* (syntype) in Gerth (1919) (RGM 529539, top view)
Fig. 15. *Pentaphyllum (Tachylasma) timorense* (syntype) in Gerth (1919) (RGM 529540, side view)

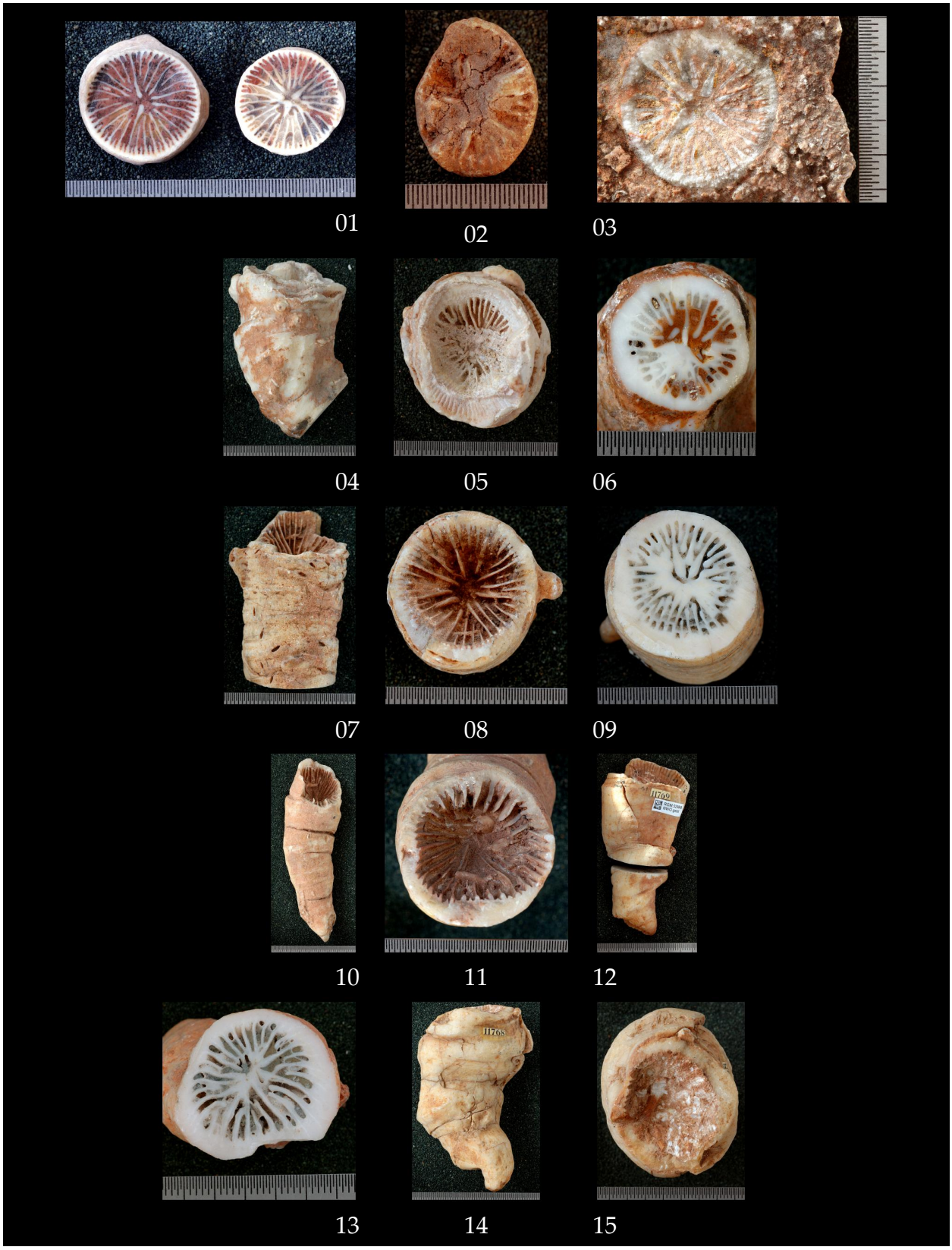
**Plate 14**



# Plate 15

Fig. 1. *Pentaphyllum (Tachylasma) timorense* (syntype) in Gerth (1919) (RGM 529540, transverse section)
Fig. 2. *Pentaphyllum (Tachylasma) timorense* (syntype) in Gerth (1919) (RGM 529538, top view)
Fig. 3. *Pentaphyllum (Tachylasma) timorense* (syntype) in Gerth (1919) (RGM 529527, transverse section)
Fig. 4. *Pentaphyllum (Tachylasma) timorense var. calyculat* (holotype) in Koker (1924) (THDKA 11766, side view)
Fig. 5. *Pentaphyllum (Tachylasma) timorense var. calyculat* (holotype) in Koker (1924) (THDKA 11766, top view)
Fig. 6. *Pentaphyllum (Tachylasma) timorense var. calyculat* (holotype) in Koker (1924) (THDKA 11766, transverse section)
Fig. 7. *Pentaphyllum (Tachylasma) timorense var. cylindric* (syntype) in Koker (1924) (RGM 529854, side view)
Fig. 8. *Pentaphyllum (Tachylasma) timorense var. cylindric* (syntype) in Koker (1924) (RGM 529854, top view)
Fig. 9. *Pentaphyllum (Tachylasma) timorense var. cylindric* (syntype) in Koker (1924) (RGM 529854, transverse section)
Fig. 10. *Pentaphyllum (Tachylasma) timorense var. cylindric* (syntype) in Koker (1924) (THDKA 11767, side view)
Fig. 11. *Pentaphyllum (Tachylasma) timorense var. cylindric* (syntype) in Koker (1924) (THDKA 11767, top view)
Fig. 12. *Pentaphyllum (Tachylasma) timorense var. irregular* (syntype) in Koker (1924) (RGM 529849, side view)
Fig. 13. *Pentaphyllum (Tachylasma) timorense var. irregular* (syntype) in Koker (1924) (RGM 529849, transverse section)
Fig. 14. *Pentaphyllum (Tachylasma) timorense var. irregular* (syntype) in Koker (1924) (THDKA 11768, side view)
Fig. 15. *Pentaphyllum (Tachylasma) timorense var. irregular* (syntype) in Koker (1924) (THDKA 11768, top view)

**Plate 15**



# Plate 16

Fig. 1. *Pentaphyllum (Tachylasma) timorense typicum* (syntype) in Koker (1924) (RGM 529561, transverse section)
Fig. 2. *Pleramplexus grandis* (holotype) in Niermann (1975) (RGM 525645, side view)
Fig. 3. *Pleramplexus grandis* (holotype) in Niermann (1975) (RGM 525645, transverse section)
Fig. 4. *Pleramplexus grandis* (paratype) in Niermann (1975) (RGM 525646, side view)
Fig. 5. *Pleramplexus grandis* (paratype) in Niermann (1975) (RGM 525646, top view)
Fig. 6. *Pleramplexus grandis* (paratype) in Niermann (1975) (RGM 525646, transverse section)
Fig. 7. *Pleramplexus grandis* (paratype) in Niermann (1975) (RGM 525647, side view)
Fig. 8. *Pleramplexus grandis* (paratype) in Niermann (1975) (RGM 525647, transverse section)
Fig. 9. *Plerophyllum bitaunense* (syntype) in Koker (1924) (THDKA 11765, side view, with spherical recristallisation patterns.)
Fig. 10. *Plerophyllum bitaunense* (syntype) in Koker (1924) (THDKA 11765, top view)
Fig. 11. *Prosmilia compressa* (syntype) in Koker (1924) (RGM 529809, top view)
Fig. 12. *Prosmilia compressa* (syntype) in Koker (1924) (RGM 529809, side view)
Fig. 13. *Prosmilia compressa* (syntype) in Koker (1924) (RGM 529809, transverse section)
Fig. 14. *Prosmilia compressa* (syntype) in Koker (1924) (THDKA 11784, side view)
Fig. 15. *Prosmilia compressa* (syntype) in Koker (1924) (THDKA 11784, top view)

**Plate 16**



# Plate 17

Fig. 1. *Spineria (Cystina) uniformis* in Schouppé & Stacul (1959), *Spineria (Cystina) ultima* (syntype) in Koker (1924) (THDKA 11777, side view, top fragment is THDKA 11778.)
Fig. 2. *Spineria (Cystina) uniformis* in Schouppé & Stacul (1959), *Spineria (Cystina) ultima* (syntype) in Koker (1924) (THDKA 11777, transverse section, fragment is THDKA 11778.)
Fig. 3. *Spineria (Spineria) diplochone* (lectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11775, tangential section)
Fig. 4. *Spineria (Spineria) diplochone* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11774, side view)
Fig. 5. *Spineria (Spineria) diplochone* (paralectotype) in Schouppé & Stacul (1959), syntype in Koker (1924) (THDKA 11774, top view)
Fig. 6. *Timorphyllum wanneri wanneri* (paralectotype) in Schouppé & Stacul (1955), *Timorphyllum wanneri* (syntype) in Gerth (1921a) (RGM 529518, side view)
Fig. 7. *Timorphyllum wanneri wanneri* (paralectotype) in Schouppé & Stacul (1955), *Timorphyllum wanneri* (syntype) in Gerth (1921a) (RGM 529518, transverse section)
Fig. 8. *Timorphyllum wanneri wanneri* (paralectotype) in Schouppé & Stacul (1955), *Timorphyllum wanneri* (syntype) in Gerth (1921a) (RGM 529519, side view)
Fig. 9. *Timorphyllum wanneri wanneri* (paralectotype) in Schouppé & Stacul (1955), *Timorphyllum wanneri* (syntype) in Gerth (1921a) (RGM 529519, top view)
Fig. 10. *Timorphyllum wanneri wanneri* (paralectotype) in Schouppé & Stacul (1955), *Timorphyllum wanneri* (syntype) in Gerth (1921a) (RGM 529520, side view)
Fig. 11. *Timorphyllum wanneri wanneri* (paralectotype) in Schouppé & Stacul (1955), *Timorphyllum wanneri* (syntype) in Gerth (1921a) (RGM 529520, top view)
Fig. 12. *Timorphyllum wanneri wanneri* (paralectotype) in Schouppé & Stacul (1955), *Timorphyllum wanneri* (syntype) in Gerth (1921a) (RGM 529521, side view)
Fig. 13. *Timorphyllum wanneri wanneri* (paralectotype) in Schouppé & Stacul (1955), *Timorphyllum wanneri* (syntype) in Gerth (1921a) (RGM 529521, top view)
Fig. 14. *Timorphyllum wanneri wanneri* (paralectotype) in Schouppé & Stacul (1955), *Timorphyllum wanneri* (syntype) in Gerth (1921a) (RGM 529522, side view)
Fig. 15. *Timorphyllum wanneri wanneri* (paralectotype) in Schouppé & Stacul (1955), *Timorphyllum wanneri* (syntype) in Gerth (1921a) (RGM 529522, transverse section)

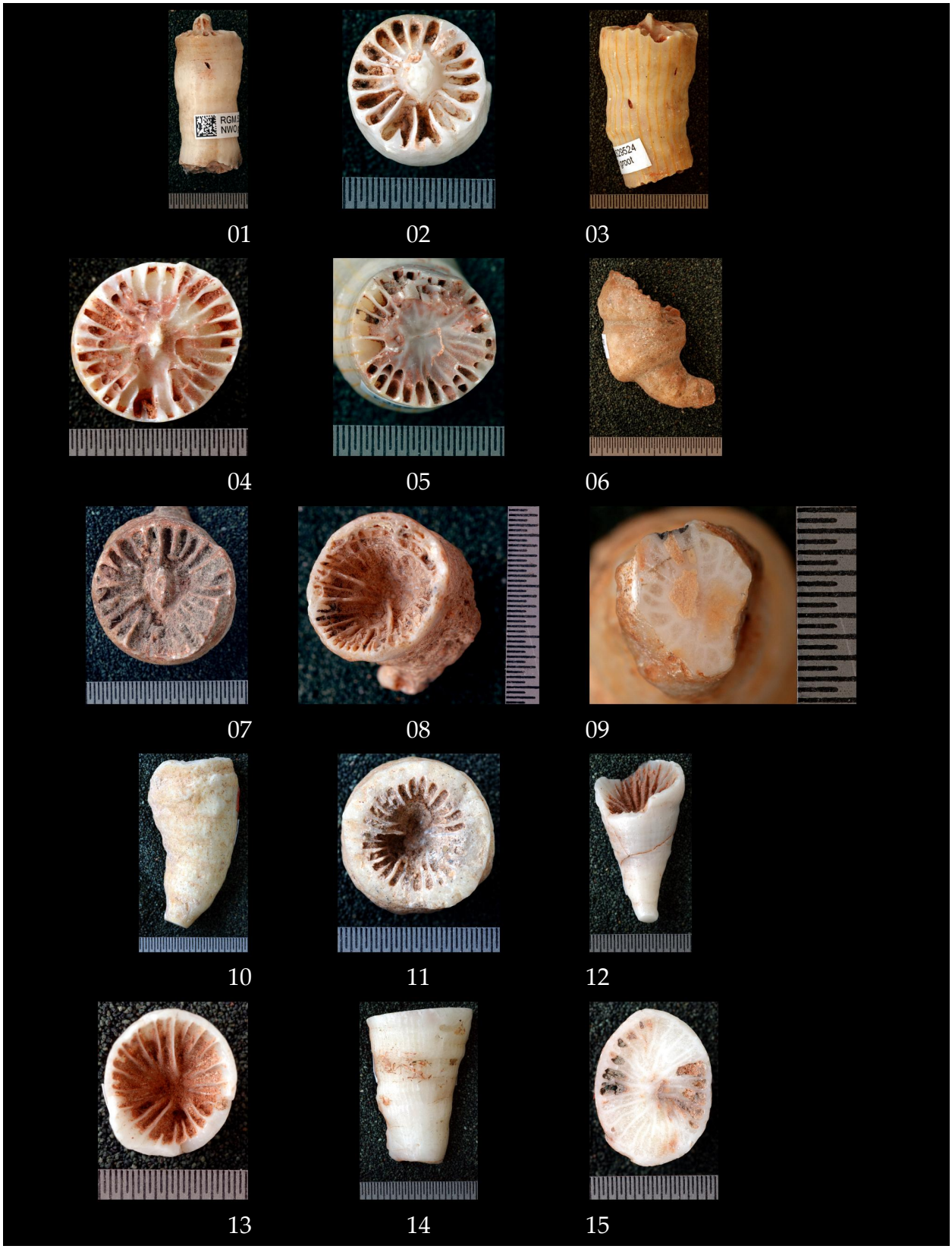
**Plate 17**



# Plate 18

Fig. 1. *Timorphyllum wanneri wanneri* (paralectotype) in Schouppé & Stacul (1955), *Timorphyllum wanneri* (syntype) in Gerth (1921a) (RGM 529523, side view)
Fig. 2. *Timorphyllum wanneri wanneri* (paralectotype) in Schouppé & Stacul (1955), *Timorphyllum wanneri* (syntype) in Gerth (1921a) (RGM 529523, top view)
Fig. 3. *Timorphyllum wanneri wanneri* (paralectotype) in Schouppé & Stacul (1955), *Timorphyllum wanneri* (syntype) in Gerth (1921a) (RGM 529524, side view)
Fig. 4. *Timorphyllum wanneri wanneri* (paralectotype) in Schouppé & Stacul (1955), *Timorphyllum wanneri* (syntype) in Gerth (1921a) (RGM 529524, top view)
Fig. 5. *Timorphyllum wanneri wanneri* (paralectotype) in Schouppé & Stacul (1955), *Timorphyllum wanneri* (syntype) in Gerth (1921a) (RGM 529524, basal view)
Fig. 6. *Timorphyllum wanneri wanneri* (paralectotype) in Schouppé & Stacul (1955), *Timorphyllum wanneri* (syntype) in Gerth (1921a) (RGM 529525, side view)
Fig. 7. *Timorphyllum wanneri wanneri* (paralectotype) in Schouppé & Stacul (1955), *Timorphyllum wanneri* (syntype) in Gerth (1921a) (RGM 529525, top view)
Fig. 8. *Ufimia radiciformis radiciformis* (holotype) in Niermann (1975), *Ufimia radiciformis* in Koker (1924) (THDKA 11790, top view)
Fig. 9. *Ufimia radiciformis radiciformis* (holotype) in Niermann (1975), *Ufimia radiciformis* in Koker (1924) (THDKA 11790, transverse section)
Fig. 10. *Ufimia radiciformis defecta* (paratype) in Niermann (1975) (RGM 529473, side view)
Fig. 11. *Ufimia radiciformis defecta* (paratype) in Niermann (1975) (RGM 529473, top view)
Fig. 12. *Ufimia radiciformis defecta* (paratype) in Niermann (1975) (RGM 529474, side view)
Fig. 13. *Ufimia radiciformis defecta* (paratype) in Niermann (1975) (RGM 529474, top view)
Fig. 14. *Ufimia radiciformis radiciformis* (paratype) in Niermann (1975) (RGM 529471, side view)
Fig. 15. *Ufimia radiciformis radiciformis* (paratype) in Niermann (1975) (RGM 529471, top view)

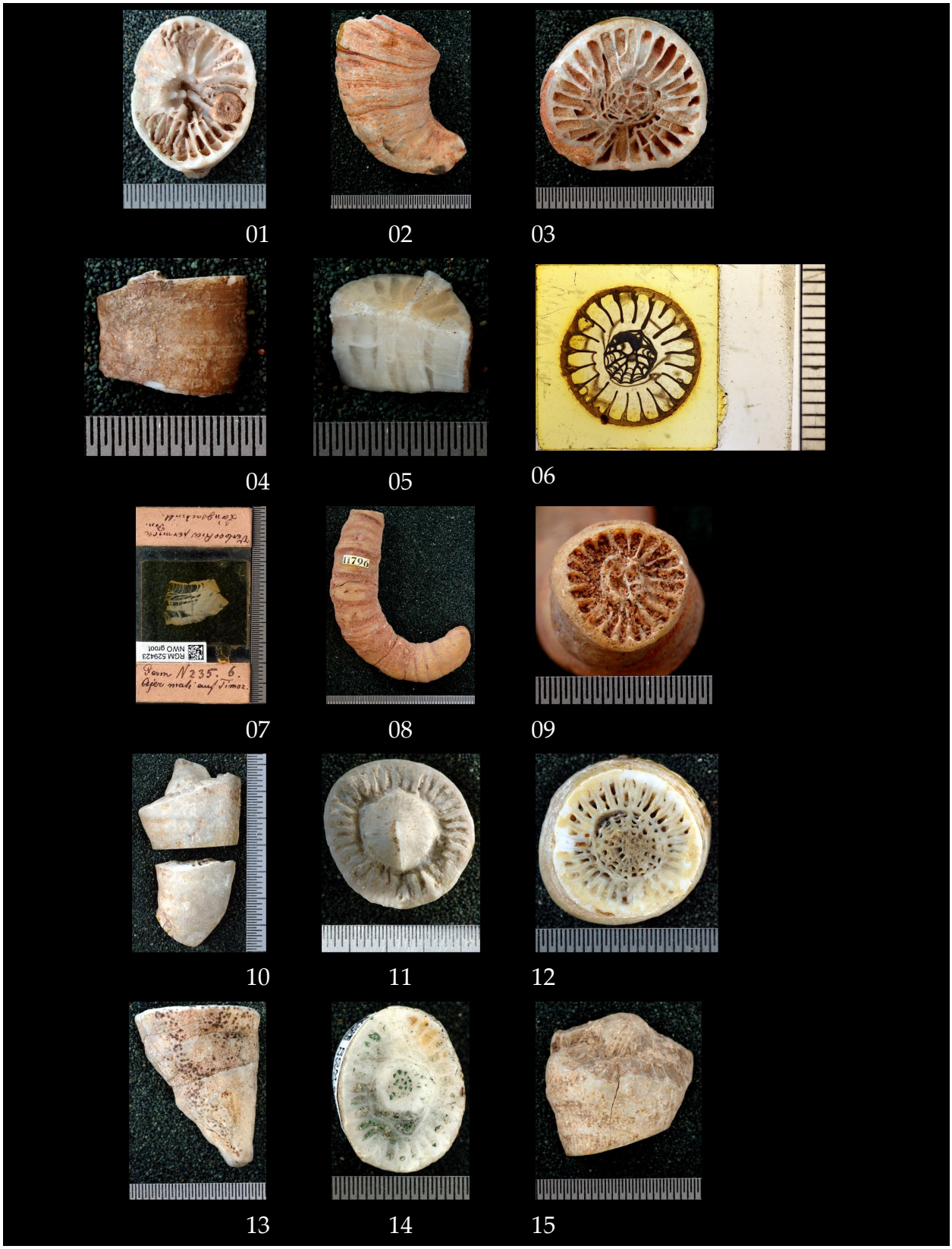
**Plate 18**



# Plate 19

Fig. 1. *Ufimia radiciformis radiciformis* (paratype) in Niermann (1975) (RGM 529472, top view)
Fig. 2. *Verbeekiella australis* in Gerth (1921a) (THDKA 11795, side view)
Fig. 3. *Verbeekiella australis* in Gerth (1921a) (THDKA 11795, top view)
Fig. 4. *Verbeekiella permica* (holotype) in Penecke (1908a) (THDKA 11794, side view)
Fig. 5. *Verbeekiella permica* (holotype) in Penecke (1908a) (THDKA 11794, transverse section)
Fig. 6. *Verbeekiella australis forma elongata* in Gerth (1921a), *Verbeekiella permica* (holotype) in Penecke (1908a) (RGM 529422, transverse section)
Fig. 7. *Verbeekiella permica* (holotype) in Penecke (1908a) (RGM 529423, overview)
Fig. 8. *Verbeekiella australis forma elongata* in Gerth (1921a), Gerth (1921b) (THDKA 11796, side view)
Fig. 9. *Verbeekiella australis forma elongata* in Gerth (1921a), Gerth (1921b) (THDKA 11796, top view)
Fig. 10. *Wannerophyllum cristatum* (lectotype) in Schouppé & Stacul (1955), syntype in Gerth (1921a) (THDKA 11793, side view)
Fig. 11. *Wannerophyllum cristatum* (lectotype) in Schouppé & Stacul (1955), syntype in Gerth (1921a) (THDKA 11793, top view)
Fig. 12. *Wannerophyllum cristatum* (lectotype) in Schouppé & Stacul (1955), syntype in Gerth (1921a) (THDKA 11793, transverse section)
Fig. 13. *Wannerophyllum cristatum* (paralectotype) in Schouppé & Stacul (1955), syntype in Gerth (1921a) (RGM 529424, side view)
Fig. 14. *Wannerophyllum cristatum* (paralectotype) in Schouppé & Stacul (1955), syntype in Gerth (1921a) (RGM 529424, transverse section)
Fig. 15. *Wannerophyllum tubulosum* (paralectotype) in Schouppé & Stacul (1955), syntype in Gerth (1921a) (RGM 529821, side view)

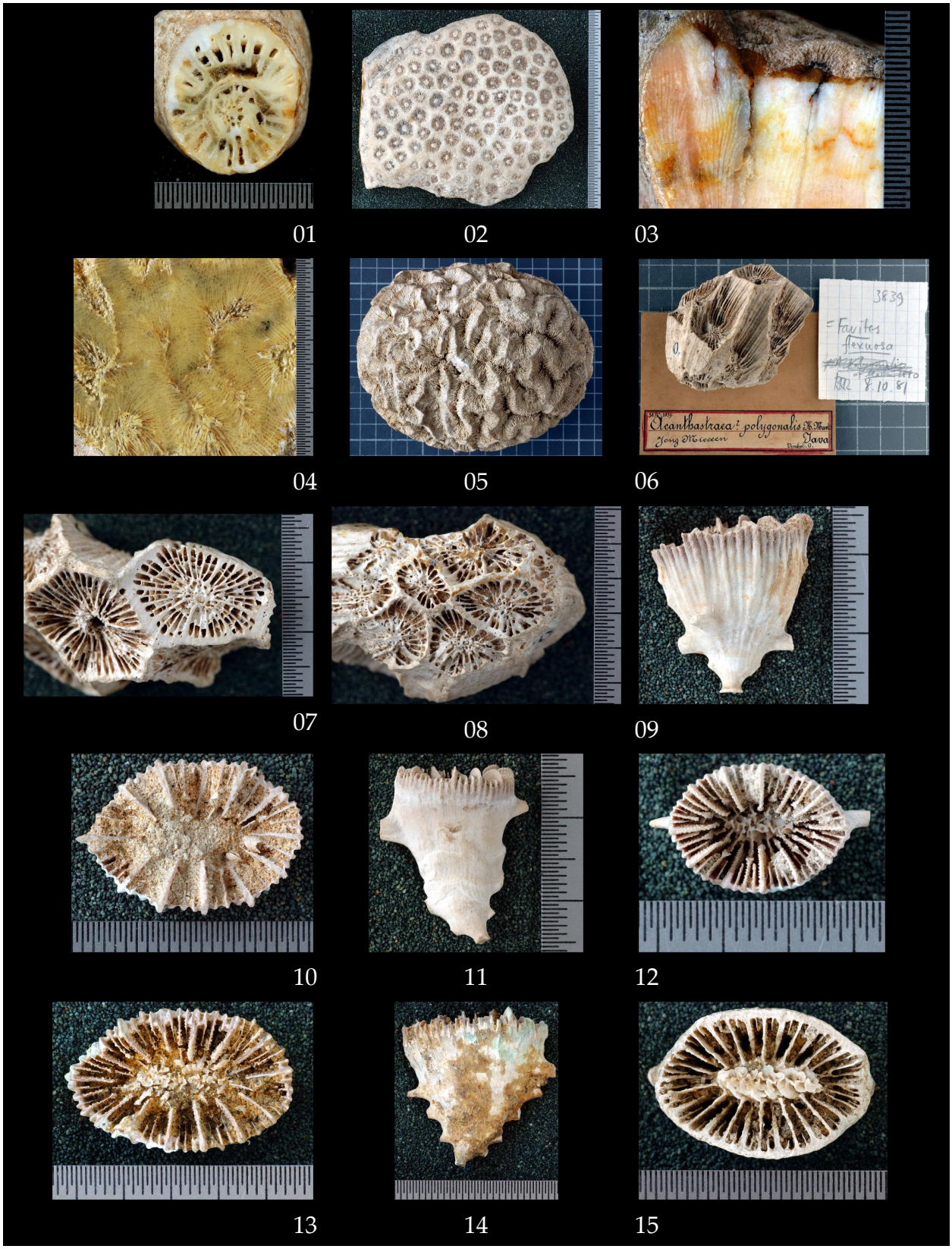
**Plate 19**



# Plate 20

Fig. 1. *Wannerophyllum tubulosum* (paralectotype) in Schouppé & Stacul (1955), syntype in Gerth (1921a) (RGM 529821, transverse section)
Fig. 2. *Wentzelella timorica* (syntype) in Gerth (1921a) (THDKA 11791, top view)
Fig. 3. *Wentzelella timorica* (syntype) in Gerth (1921a) (THDKA 11791, tangential section)
Fig. 4. *Hydnophyllia martini* (holotype) in Gerth (1921c) (RGM 3829, transverse section)
Fig. 5. *Hydnophyllia martini* (holotype) in Gerth (1921c) (RGM 3829, top view)
Fig. 6. *Acanthastraea polygonalis* (holotype) in Martin (1880a) (RGM 3839, overview)
Fig. 7. *Acanthastraea polygonalis* (holotype) in Martin (1880a) (RGM 3839, top view)
Fig. 8. *Acanthastraea polygonalis* (holotype) in Martin (1880a) (RGM 3839, basal view)
Fig. 9. *Acanthocyathus grayi* in Umbgrove (1950) (RGM 77725, side view)
Fig. 10. *Acanthocyathus grayi* in Umbgrove (1950) (RGM 77725, top view)
Fig. 11. *Acanthocyathus grayi* in Umbgrove (1950) (RGM 77727, side view)
Fig. 12. *Acanthocyathus grayi* in Umbgrove (1950) (RGM 77727, top view)
Fig. 13. *Acanthocyathus grayi* in Umbgrove (1950) (RGM 77886, top view)
Fig. 14. *Acanthocyathus grayi* in Umbgrove (1950) (RGM 77886, side view)
Fig. 15. *Acanthocyathus grayi* in Umbgrove (1950) (RGM 77889, top view)

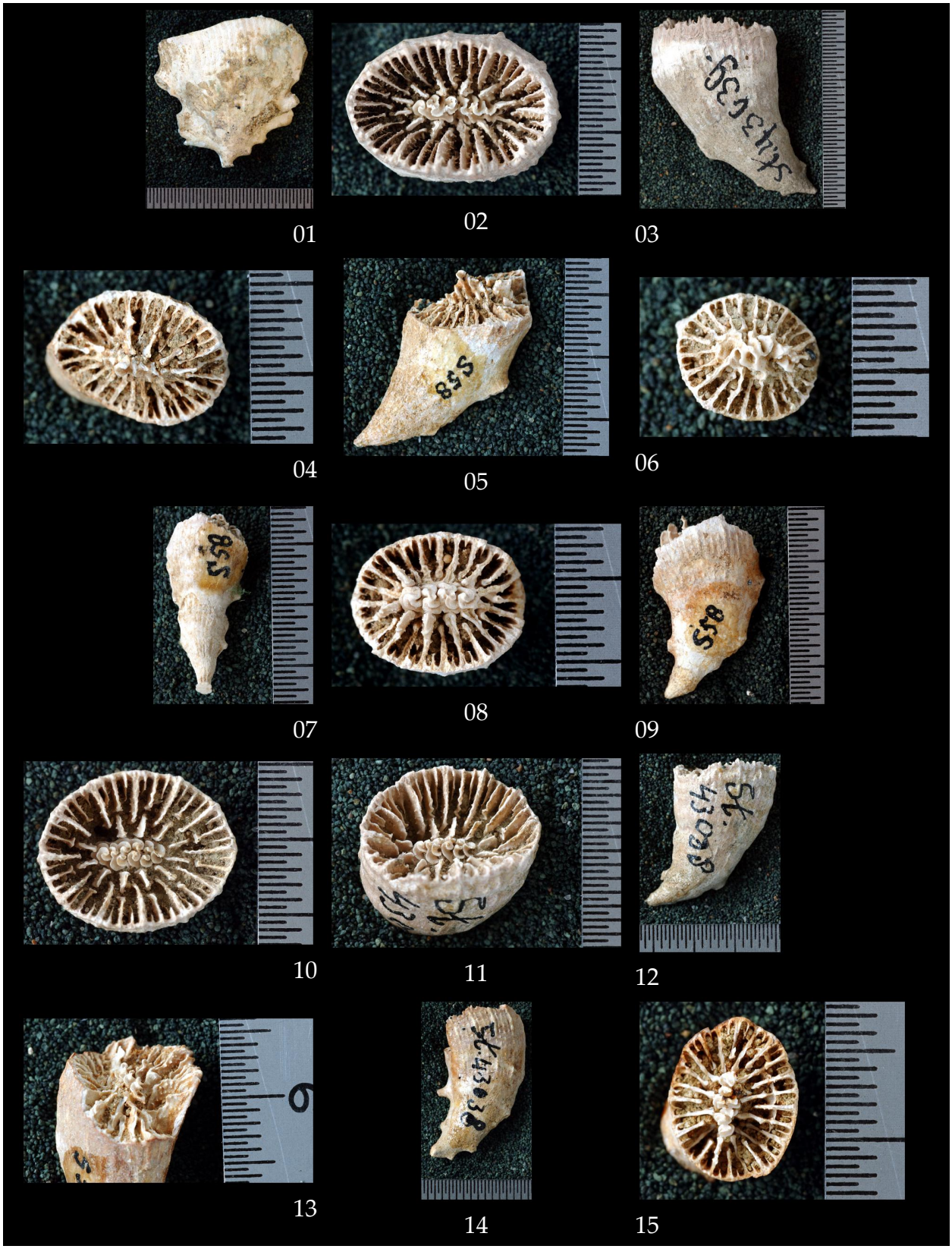
**Plate 20**


01
02
03
04
05
06
3839
= Favites
flexuosa
Acanthastraea? polygonalis
Java
07
08
09
10
11
12
13
14
15

# Plate 21

Fig. 1. *Acanthocyathus grayi* in Umbgrove (1950) (RGM 77889, side view)
Fig. 2. *Acanthocyathus malayicus* (syntype) in Gerth (1923) (RGM 167779, top view)
Fig. 3. *Acanthocyathus malayicus* (syntype) in Gerth (1923) (RGM 167779, side view)
Fig. 4. *Acanthocyathus malayicus* (syntype) in Gerth (1923) (RGM 525513, top view)
Fig. 5. *Acanthocyathus malayicus* (syntype) in Gerth (1923) (RGM 525513, side view)
Fig. 6. *Acanthocyathus malayicus* (syntype) in Gerth (1923) (RGM 525514, top view)
Fig. 7. *Acanthocyathus malayicus* (syntype) in Gerth (1923) (RGM 525514, side view)
Fig. 8. *Acanthocyathus malayicus* (syntype) in Gerth (1923) (RGM 525516, top view)
Fig. 9. *Acanthocyathus malayicus* (syntype) in Gerth (1923) (RGM 525516, side view)
Fig. 10. *Acanthocyathus malayicus* (syntype) in Gerth (1923) (RGM 525520, top view)
Fig. 11. *Acanthocyathus malayicus* (syntype) in Gerth (1923) (RGM 525520, top view)
Fig. 12. *Acanthocyathus malayicus* (syntype) in Gerth (1923) (RGM 525520, side view)
Fig. 13. *Acanthocyathus malayicus* (syntype) in Gerth (1923) (RGM 525521, detail)
Fig. 14. *Acanthocyathus malayicus* (syntype) in Gerth (1923) (RGM 525521, side view)
Fig. 15. *Acanthocyathus malayicus* (syntype) in Gerth (1923) (RGM 525524, top view)

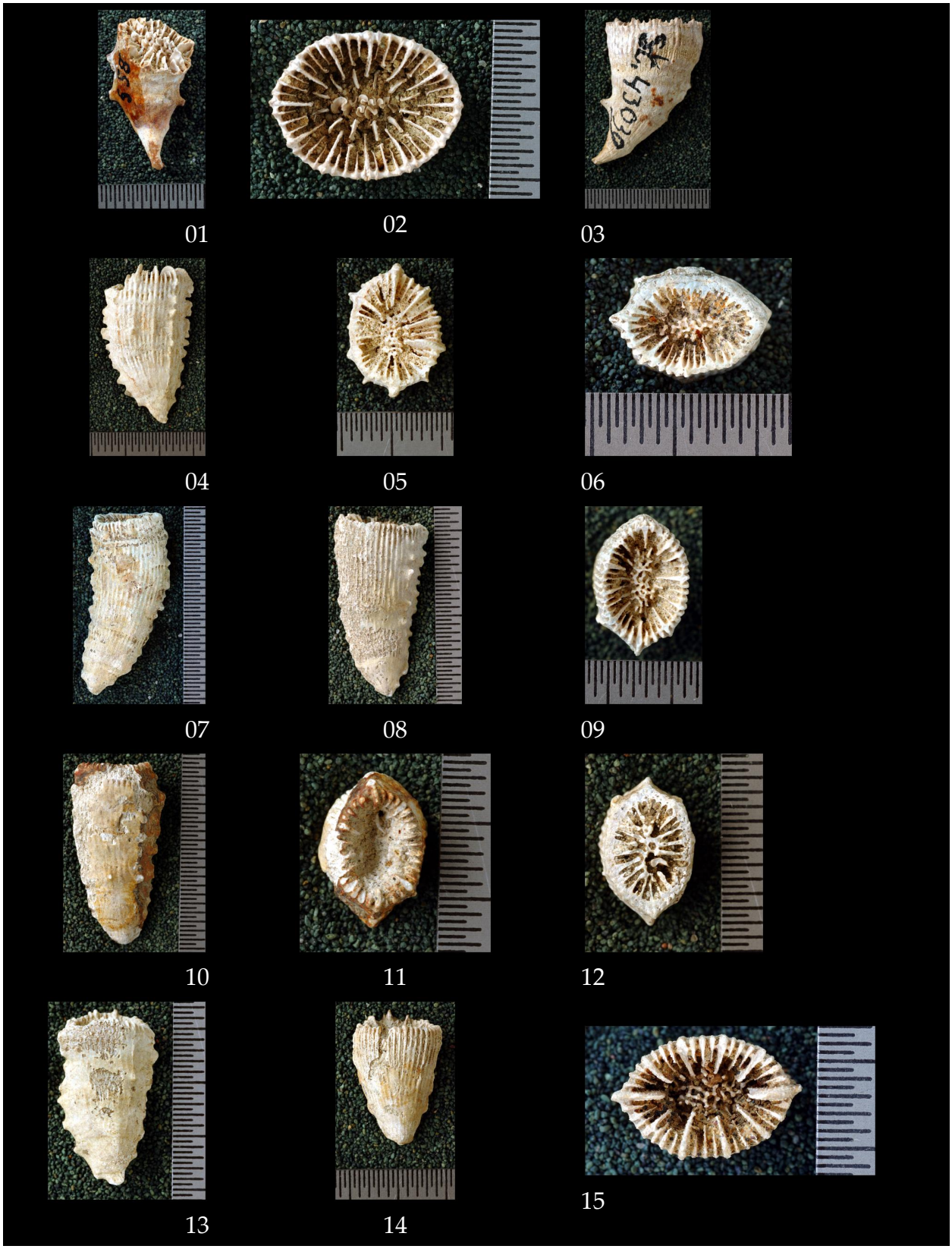
**Plate 21**



# Plate 22

Fig. 1. *Acanthocyathus malayicus* (syntype) in Gerth (1923) (RGM 525524, side view)
Fig. 2. *Acanthocyathus malayicus* (syntype) in Gerth (1923) (RGM 43039, top view)
Fig. 3. *Acanthocyathus malayicus* (syntype) in Gerth (1923) (RGM 43039, side view)
Fig. 4. *Acanthocyathus spinosa* (syntype) in Umbgrove (1950) (RGM 77790, side view)
Fig. 5. *Acanthocyathus spinosa* (syntype) in Umbgrove (1950) (RGM 77790, top view)
Fig. 6. *Acanthocyathus spinosa* (syntype) in Umbgrove (1950) (RGM 77894, top view)
Fig. 7. *Acanthocyathus spinosa* (syntype) in Umbgrove (1950) (RGM 77894, side view)
Fig. 8. *Acanthocyathus spinosa* (syntype) in Umbgrove (1950) (RGM 167685, side view)
Fig. 9. *Acanthocyathus spinosa* (syntype) in Umbgrove (1950) (RGM 167685, top view)
Fig. 10. *Acanthocyathus spinosa* (syntype) in Umbgrove (1950) (RGM 167686, side view)
Fig. 11. *Acanthocyathus spinosa* (syntype) in Umbgrove (1950) (RGM 167686, top view)
Fig. 12. *Acanthocyathus spinosa* (syntype) in Umbgrove (1950) (RGM 167687, top view)
Fig. 13. *Acanthocyathus spinosa* (syntype) in Umbgrove (1950) (RGM 167688, side view)
Fig. 14. *Acanthocyathus spinosa* (syntype) in Umbgrove (1950) (RGM 167689, side view)
Fig. 15. *Acanthocyathus spinosa* (syntype) in Umbgrove (1950) (RGM 77893, top view)

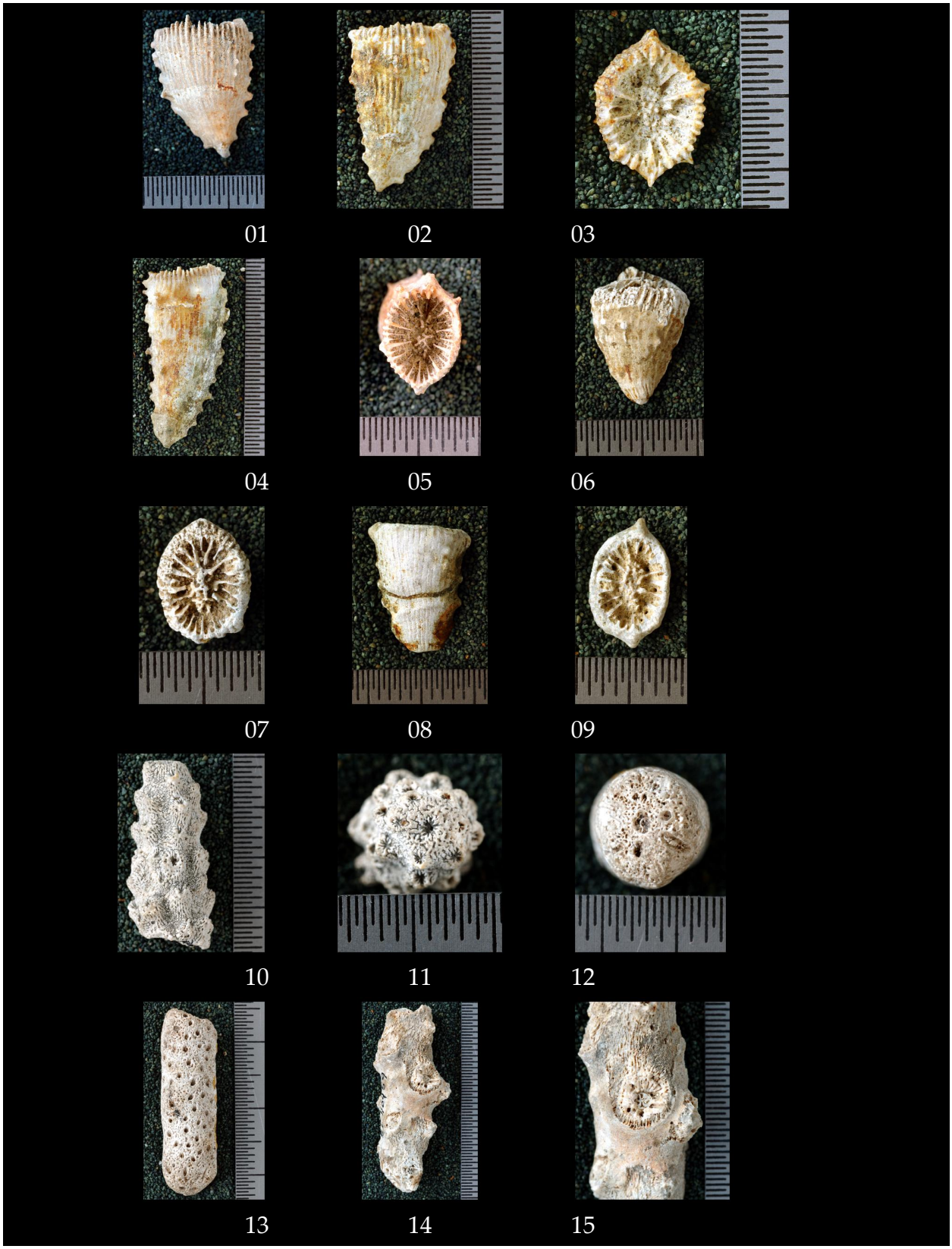
**Plate 22**



# Plate 23

Fig. 1. *Acanthocyathus spinosa* (syntype) in Umbgrove (1950) (RGM 77893, side view)
Fig. 2. *Acanthocyathus spinosa* (syntype) in Umbgrove (1950) (RGM 167682, side view)
Fig. 3. *Acanthocyathus spinosa* (syntype) in Umbgrove (1950) (RGM 167682, top view)
Fig. 4. *Acanthocyathus spinosa* (syntype) in Umbgrove (1950) (RGM 167683, side view)
Fig. 5. *Acanthocyathus spinosa* (syntype) in Umbgrove (1950) (RGM 167683, top view)
Fig. 6. *Acanthocyathus spinosa* (syntype) in Umbgrove (1950) (RGM 525341, side view)
Fig. 7. *Acanthocyathus spinosa* (syntype) in Umbgrove (1950) (RGM 525341, top view)
Fig. 8. *Acanthocyathus spinosa* (syntype) in Umbgrove (1950) (RGM 525342, side view)
Fig. 9. *Acanthocyathus spinosa* (syntype) in Umbgrove (1950) (RGM 525342, top view)
Fig. 10. *Acropora duncani* in Gerth (1921c) (RGM 3989, side view)
Fig. 11. *Acropora duncani* in Gerth (1921c) (RGM 3989, top view)
Fig. 12. *Acropora duncani* in Martin (1880a) (RGM 3990, basal view)
Fig. 13. *Acropora duncani* in Martin (1880a) (RGM 3990, side view)
Fig. 14. *Acropora fennemai* (syntype) in Gerth (1921c) (RGM 40959, side view)
Fig. 15. *Acropora fennemai* (syntype) in Gerth (1921c) (RGM 40959, top view)

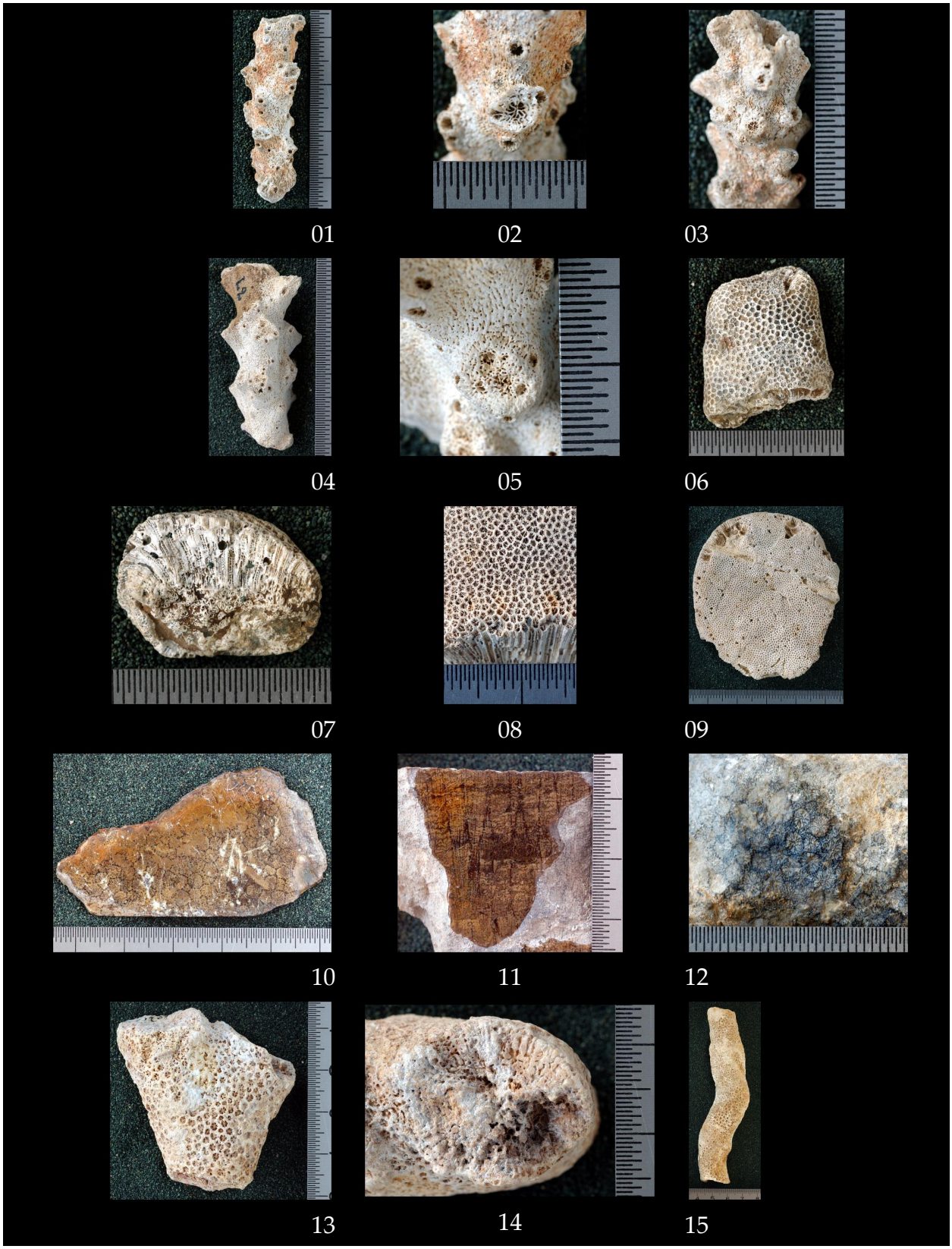
**Plate 23**



# Plate 24

Fig. 1. *Acropora fennemai* (syntype) in Gerth (1921c) (RGM 3997, side view)
Fig. 2. *Acropora fennemai* (syntype) in Gerth (1921c) (RGM 3997, top view)
Fig. 3. *Acropora fennemai* (syntype) in Gerth (1921c) (RGM 167574, top view)
Fig. 4. *Acropora fennemai* in Gerth (1923) (RGM 17703, side view)
Fig. 5. *Acropora fennemai* in Gerth (1923) (RGM 17703, top view)
Fig. 6. *Actinastrea minutissima* (holotype) in Gerth (1921c) (RGM 3868, top view)
Fig. 7. *Actinastrea minutissima* (holotype) in Gerth (1921c) (RGM 3868, tangential section)
Fig. 8. *Actinastrea minutissima* in Gerth (1923) (RGM 43105, top view)
Fig. 9. *Actinastrea minutissima* in Gerth (1923) (RGM 43105, basal view)
Fig. 10. *Alveopora molengraaffi* (syntype) in Gerth (1928) (RGM 45828, transverse section)
Fig. 11. *Alveopora molengraaffi* (syntype) in Gerth (1928) (RGM 45828, tangential section)
Fig. 12. *Alveopora molengraaffi* (syntype) in Gerth (1928) (RGM 45837, top view)
Fig. 13. *Alveopora polyacantha* in Umbgrove (1946a) (RGM 77705, side view)
Fig. 14. *Alveopora polyacantha* in Umbgrove (1946a) (RGM 77705, transverse section)
Fig. 15. *Alveopora polyacantha* in Umbgrove (1946a) (RGM 167672, side view)

**Plate 24**



# Plate 25

Fig. 1. *Alveopora polyacantha* in Umbgrove (1946a) (RGM 167672, detail)
Fig. 2. *Anisocoenia crassisepta* in Martin (1880a) (RGM 3805, top view)
Fig. 3. *Anisocoenia crassisepta* in Martin (1880a) (RGM 3805, side view)
Fig. 4. *Anisocoenia variabilis* (syntype) in Gerth (1923) (RGM 43068, side view)
Fig. 5. *Anisocoenia variabilis* (syntype) in Gerth (1923) (RGM 43068, top view)
Fig. 6. *Anisocoenia variabilis* (syntype) in Gerth (1923) (RGM 167791, side view)
Fig. 7. *Anisocoenia variabilis* (syntype) in Gerth (1923) (RGM 167791, transverse section)
Fig. 8. *Anisocoenia variabilis* (syntype) in Gerth (1923) (RGM 167792, side view)
Fig. 9. *Anisocoenia variabilis* (syntype) in Gerth (1923) (RGM 167792, top view)
Fig. 10. *Antillia orientalis* (syntype) in Gerth (1921c) (RGM 3818, side view)
Fig. 11. *Antillia orientalis* (syntype) in Gerth (1921c) (RGM 3818, top view)
Fig. 12. *Antillia orientalis* (syntype) in Gerth (1921c) (RGM 167542, side view)
Fig. 13. *Antillia orientalis* (syntype) in Gerth (1921c) (RGM 167542, top view)
Fig. 14. *Antillia orientalis* (syntype) in Gerth (1921c) (RGM 525244, side view)
Fig. 15. *Antillia orientalis* (syntype) in Gerth (1921c) (RGM 525245, side view)

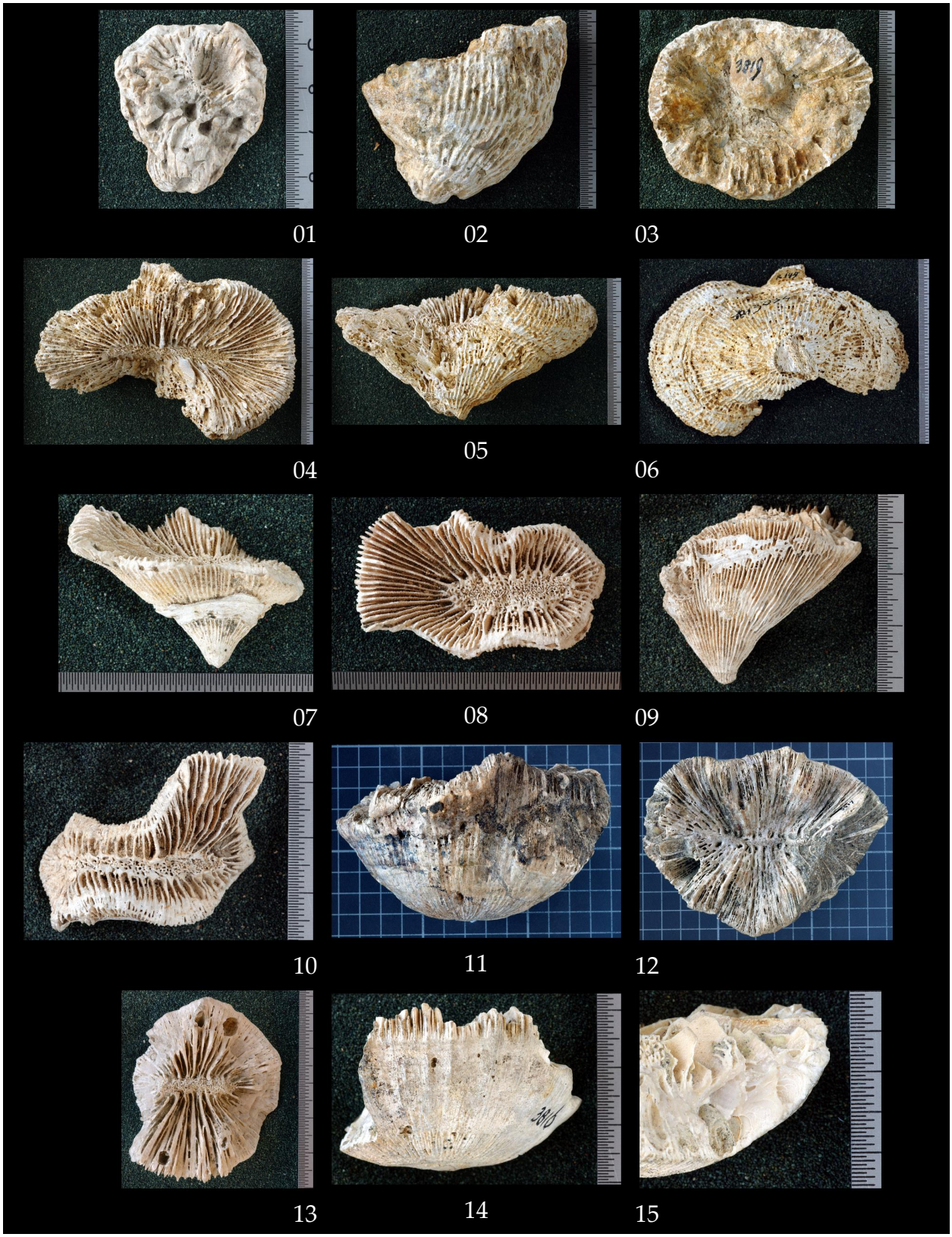
**Plate 25**



# Plate 26

Fig. 1. *Antillia orientalis* (syntype) in Gerth (1921c) (RGM 525245, detail)
Fig. 2. *Antillia orientalis* (syntype) in Gerth (1921c) (RGM 525246, side view)
Fig. 3. *Antillia orientalis* (syntype) in Gerth (1921c) (RGM 525246, top view)
Fig. 4. *Antillia orientalis* in Gerth (1923) (RGM 43054, top view)
Fig. 5. *Antillia orientalis* in Gerth (1923) (RGM 43054, side view)
Fig. 6. *Antillia orientalis* in Gerth (1923) (RGM 43054, basal view)
Fig. 7. *Antillia infundibuliformis* (syntype) in Gerth (1921c) (RGM 3815, side view)
Fig. 8. *Antillia infundibuliformis* (syntype) in Gerth (1921c) (RGM 3815, top view)
Fig. 9. *Antillia infundibuliformis* (syntype) in Gerth (1921c) (RGM 167541, side view)
Fig. 10. *Antillia infundibuliformis* (syntype) in Gerth (1921c) (RGM 167541, top view)
Fig. 11. *Antillophyllia grandiflora* (syntype) in Gerth (1921c) (RGM 3817, side view)
Fig. 12. *Antillophyllia grandiflora* (syntype) in Gerth (1921c) (RGM 3817, top view)
Fig. 13. *Antillophyllia grandiflora* (syntype) in Gerth (1921c) (RGM 3816, top view)
Fig. 14. *Antillophyllia grandiflora* (syntype) in Gerth (1921c) (RGM 3816, side view)
Fig. 15. *Antillophyllia grandiflora* (syntype) in Gerth (1921c) (RGM 3816, detail)

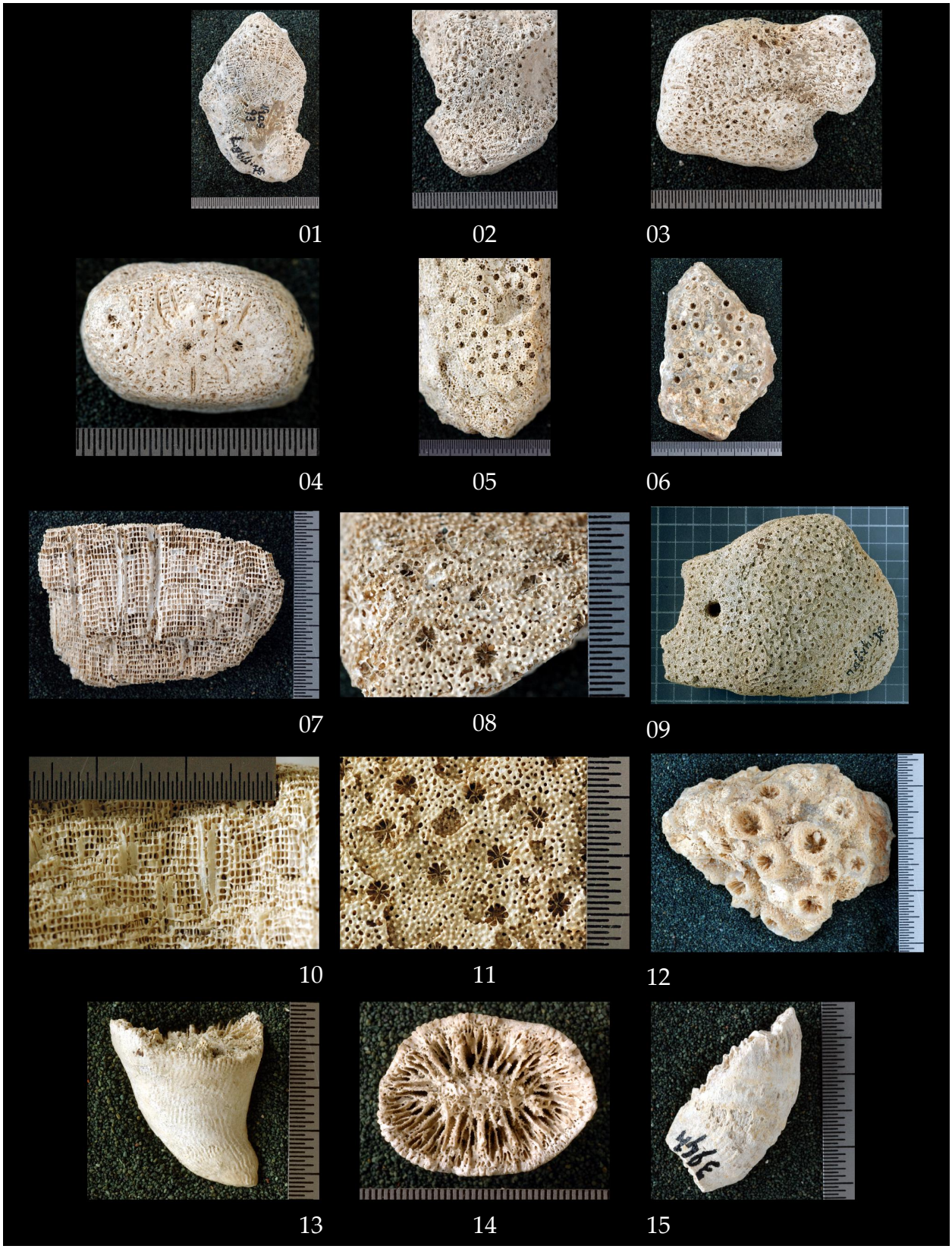
**Plate 26**



# Plate 27

Fig. 1. *Astreopora digitata* (syntype) in Gerth (1925) (RGM 17987, side view)
Fig. 2. *Astreopora digitata* (syntype) in Gerth (1925) (RGM 17987, side view)
Fig. 3. *Astreopora digitata* (syntype) in Gerth (1925) (RGM 167815, side view)
Fig. 4. *Astreopora digitata* (syntype) in Gerth (1925) (RGM 167815, transverse section)
Fig. 5. *Astreopora hochstetteri* in Gerth (1921c) (RGM 4005, top view)
Fig. 6. *Astreopora myriophthalma* in Martin (1880a) (RGM 4006, top view)
Fig. 7. *Astreopora rutteni* (syntype) in Gerth (1923) (RGM 42983, side view)
Fig. 8. *Astreopora rutteni* (syntype) in Gerth (1923) (RGM 42983, top view)
Fig. 9. *Astreopora rutteni* (syntype) in Gerth (1923) (RGM 42984, top view)
Fig. 10. *Astreopora rutteni* (syntype) in Gerth (1923) (RGM 42984, tangential section)
Fig. 11. *Astreopora rutteni* (syntype) in Gerth (1923) (RGM 42984, top view)
Fig. 12. *Astreopora sp.* in Gerth (1921c) (RGM 4009, top view)
Fig. 13. *Balanophyllia complanata* (syntype) in Gerth (1921c) (RGM 3941, side view)
Fig. 14. *Balanophyllia complanata* (syntype) in Gerth (1921c) (RGM 3941, top view)
Fig. 15. *Balanophyllia complanata* (syntype) in Gerth (1921c) (RGM 525234, side view)

**Plate 27**



# Plate 28

Fig. 1. *Balanophyllia complanata* (syntype) in Gerth (1921c) (RGM 525234, top view)
Fig. 2. *Balanophyllia complanata* (syntype) in Gerth (1921c) (RGM 525235, side view)
Fig. 3. *Balanophyllia complanata* (syntype) in Gerth (1921c) (RGM 525235, top view)
Fig. 4. *Balanophyllia complanata* (syntype) in Gerth (1921c) (RGM 525237, side view)
Fig. 5. *Balanophyllia complanata* (syntype) in Gerth (1921c) (RGM 525237, top view)
Fig. 6. *Balanophyllia oppenheimi* (syntype) in Gerth (1921c) (RGM 3943, side view)
Fig. 7. *Balanophyllia oppenheimi* (syntype) in Gerth (1921c) (RGM 3943, top view)
Fig. 8. *Balanophyllia oppenheimi* in Umbgrove (1950), *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525213, side view)
Fig. 9. *Balanophyllia oppenheimi* in Umbgrove (1950), *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525213, top view)
Fig. 10. *Balanophyllia oppenheimi* in Umbgrove (1950), *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525214, side view)
Fig. 11. *Balanophyllia oppenheimi* in Umbgrove (1950), *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525214, top view)
Fig. 12. *Balanophyllia oppenheimi* in Umbgrove (1950), *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525215, side view)
Fig. 13. *Balanophyllia oppenheimi* in Umbgrove (1950), *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525215, basal view)
Fig. 14. *Balanophyllia oppenheimi* in Umbgrove (1950), *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525216, side view)
Fig. 15. *Balanophyllia oppenheimi* in Umbgrove (1950), *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525216, top view)

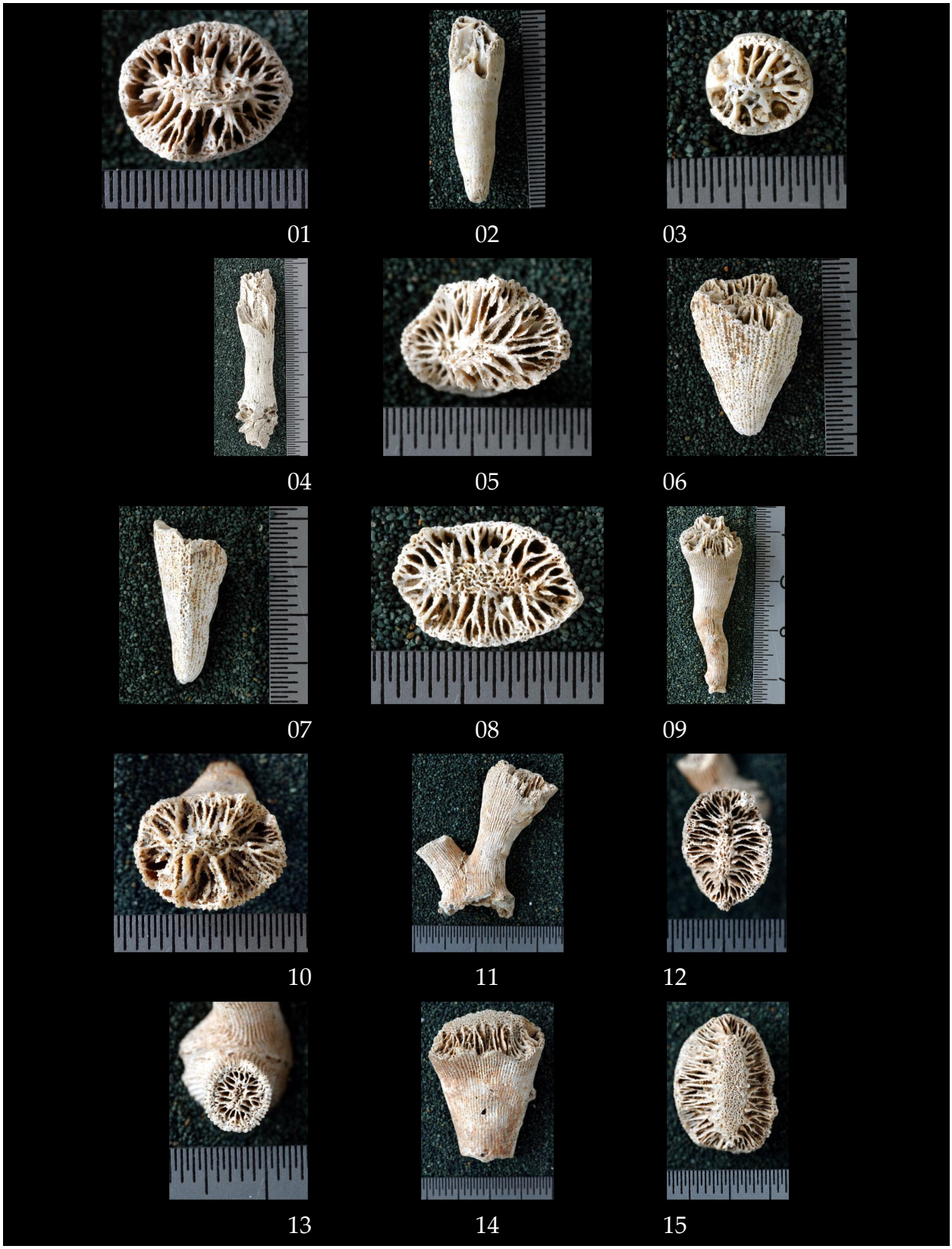
**Plate 28**



# Plate 29

Fig. 1. *Balanophyllia oppenheimi* in Umbgrove (1950), *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525217, top view)
Fig. 2. *Balanophyllia oppenheimi* in Umbgrove (1950), *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525218, side view)
Fig. 3. *Balanophyllia oppenheimi* in Umbgrove (1950), *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525218, top view)
Fig. 4. *Balanophyllia oppenheimi* in Umbgrove (1950), *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525219, side view)
Fig. 5. *Balanophyllia oppenheimi* in Umbgrove (1950), *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525219, top view)
Fig. 6. *Balanophyllia oppenheimi* in Umbgrove (1950), *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525220, side view)
Fig. 7. *Balanophyllia oppenheimi* in Umbgrove (1950), *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525220, side view)
Fig. 8. *Balanophyllia oppenheimi* in Umbgrove (1950), *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525220, top view)
Fig. 9. *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 3944, side view)
Fig. 10. *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 3944, top view)
Fig. 11. *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 167564, side view)
Fig. 12. *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 167564, top view)
Fig. 13. *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 167564, top view)
Fig. 14. *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 167565, side view)
Fig. 15. *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 167565, top view)

**Plate 29**



## Plate 30

Fig. 1. *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 167566, side view)
Fig. 2. *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 167566, top view)
Fig. 3. *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525222, side view)
Fig. 4. *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525222, top view)
Fig. 5. *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525225, side view)
Fig. 6. *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525225, top view)
Fig. 7. *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525225, basal view)
Fig. 8. *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525229, side view)
Fig. 9. *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525229, top view)
Fig. 10. *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525230, side view)
Fig. 11. *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525230, top view)
Fig. 12. *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525231, top view)
Fig. 13. *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525232, side view)
Fig. 14. *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525232, top view)
Fig. 15. *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525232, basal view)

**Plate 30**



# Plate 31

Fig. 1. *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525336, side view)
Fig. 2. *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525336, top view)
Fig. 3. *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525337, side view)
Fig. 4. *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525337, top view)
Fig. 5. *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525209, side view)
Fig. 6. *Balanophyllia variabilis* (syntype) in Gerth (1921c) (RGM 525209, top view)
Fig. 7. *Bathyactis eocaenica* in Gerth (1933), syntype in Gerth (1921c) (RGM 3898, top view)
Fig. 8. *Bathyactis eocaenica* in Gerth (1933), syntype in Gerth (1921c) (RGM 3898, basal view)
Fig. 9. *Bathyactis eocaenica* in Gerth (1933), syntype in Gerth (1921c) (RGM 3898, side view)
Fig. 10. *Bathyactis eocaenica* in Gerth (1933), syntype in Gerth (1921c) (RGM 167558, top view)
Fig. 11. *Bathyactis eocaenica* in Gerth (1933), syntype in Gerth (1921c) (RGM 167558, basal view)
Fig. 12. *Caryophyllia clavus var. javana* (syntype) in Gerth (1921c) (RGM 3783, side view)
Fig. 13. *Caryophyllia clavus var. javana* (syntype) in Gerth (1921c) (RGM 3783, top view)
Fig. 14. *Caryophyllia clavus var. javana* (syntype) in Gerth (1921c) (RGM 3783, detail)
Fig. 15. *Caryophyllia clavus var. javana* (syntype) in Gerth (1921c) (RGM 3782, side view)

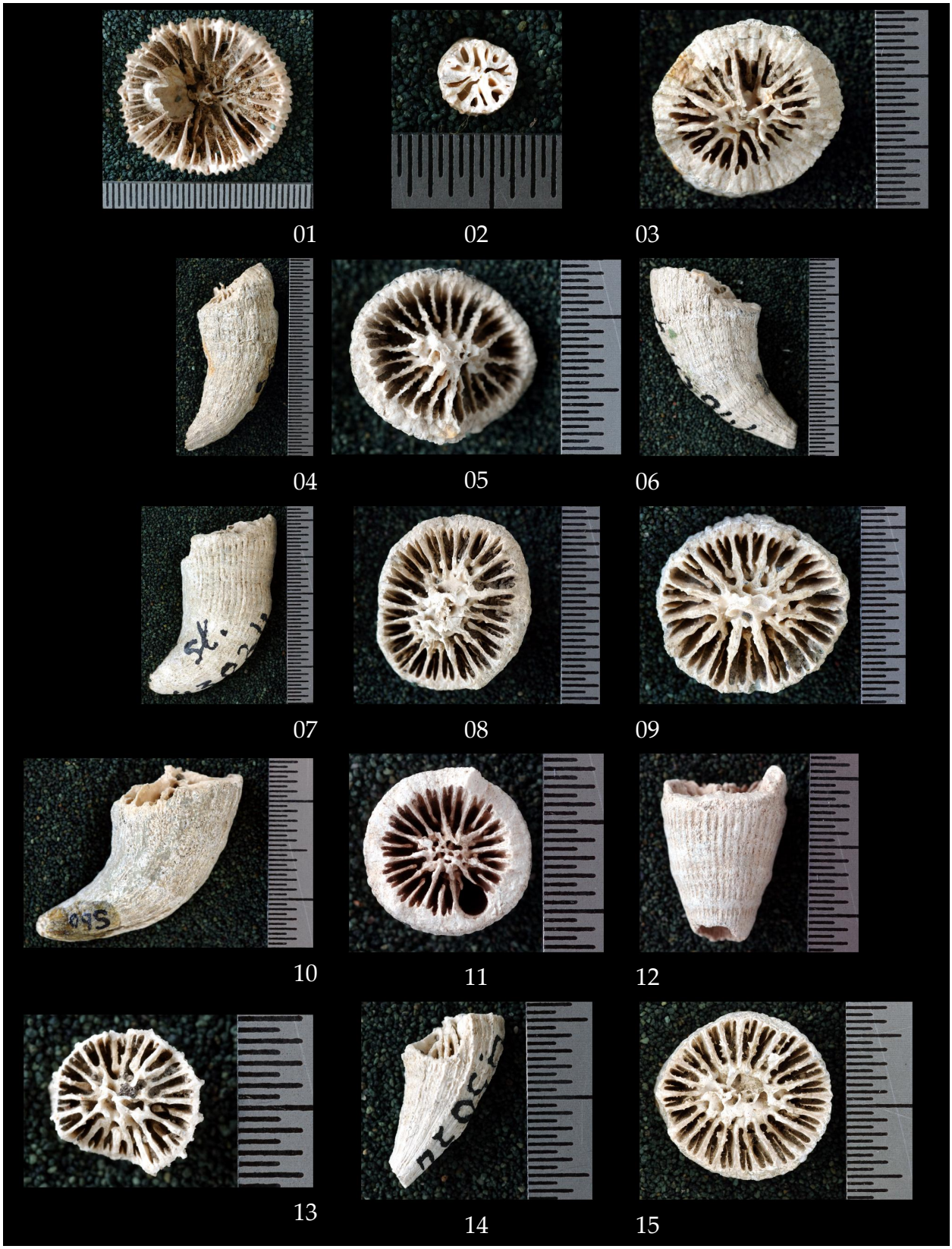
**Plate 31**


01
02
03
04
05
06
Bathyactis eocaenica
spec. nov.
3898
07
08
09
3898
10
11
12
13
14
15

# Plate 32

Fig. 1. *Caryophyllia clavus var. javana* (syntype) in Gerth (1921c) (RGM 3782, top view)
Fig. 2. *Caryophyllia clavus var. javana* (syntype) in Gerth (1921c) (RGM 3782, detail)
Fig. 3. *Ceratocyathus curvatus* (syntype) in Gerth (1923) (RGM 43041, top view)
Fig. 4. *Ceratocyathus curvatus* (syntype) in Gerth (1923) (RGM 43041, side view)
Fig. 5. *Ceratocyathus curvatus* (syntype) in Gerth (1923) (RGM 167778, top view)
Fig. 6. *Ceratocyathus curvatus* (syntype) in Gerth (1923) (RGM 167778, side view)
Fig. 7. *Ceratocyathus curvatus* (syntype) in Gerth (1923) (RGM 525414, side view)
Fig. 8. *Ceratocyathus curvatus* (syntype) in Gerth (1923) (RGM 525414, top view)
Fig. 9. *Ceratocyathus curvatus* (syntype) in Gerth (1923) (RGM 525417, top view)
Fig. 10. *Ceratocyathus curvatus* (syntype) in Gerth (1923) (RGM 525417, side view)
Fig. 11. *Ceratocyathus curvatus* (syntype) in Gerth (1923) (RGM 525425, top view)
Fig. 12. *Ceratocyathus curvatus* (syntype) in Gerth (1923) (RGM 525425, side view)
Fig. 13. *Ceratocyathus curvatus* (syntype) in Gerth (1923) (RGM 525431, top view)
Fig. 14. *Ceratocyathus curvatus* (syntype) in Gerth (1923) (RGM 525431, side view)
Fig. 15. *Ceratocyathus curvatus* (syntype) in Gerth (1923) (RGM 525444, top view)

**Plate 32**



# Plate 33

Fig. 1. *Ceratocyathus curvatus* (syntype) in Gerth (1923) (RGM 525444, side view)
Fig. 2. *Ceratocyathus pressulus* (syntype) in Gerth (1923) (RGM 43030, top view)
Fig. 3. *Ceratocyathus pressulus* (syntype) in Gerth (1923) (RGM 43030, side view)
Fig. 4. *Ceratocyathus pressulus* (syntype) in Gerth (1923) (RGM 43029, top view)
Fig. 5. *Ceratocyathus pressulus* (syntype) in Gerth (1923) (RGM 43029, side view)
Fig. 6. *Ceratocyathus pressulus* (syntype) in Gerth (1923) (RGM 167777, top view)
Fig. 7. *Ceratocyathus pressulus* (syntype) in Gerth (1923) (RGM 167777, side view)
Fig. 8. *Ceratocyathus pressulus* (syntype) in Gerth (1923) (RGM 525494, top view)
Fig. 9. *Ceratocyathus pressulus* (syntype) in Gerth (1923) (RGM 525494, side view)
Fig. 10. *Ceratocyathus pressulus* (syntype) in Gerth (1923) (RGM 525495, top view)
Fig. 11. *Ceratocyathus pressulus* (syntype) in Gerth (1923) (RGM 525495, side view)
Fig. 12. *Ceratocyathus pressulus* (syntype) in Gerth (1923) (RGM 525496, top view)
Fig. 13. *Ceratocyathus pressulus* (syntype) in Gerth (1923) (RGM 525496, side view)
Fig. 14. *Ceratocyathus pressulus* (syntype) in Gerth (1923) (RGM 43032, top view)
Fig. 15. *Ceratocyathus pressulus* (syntype) in Gerth (1923) (RGM 43032, side view)

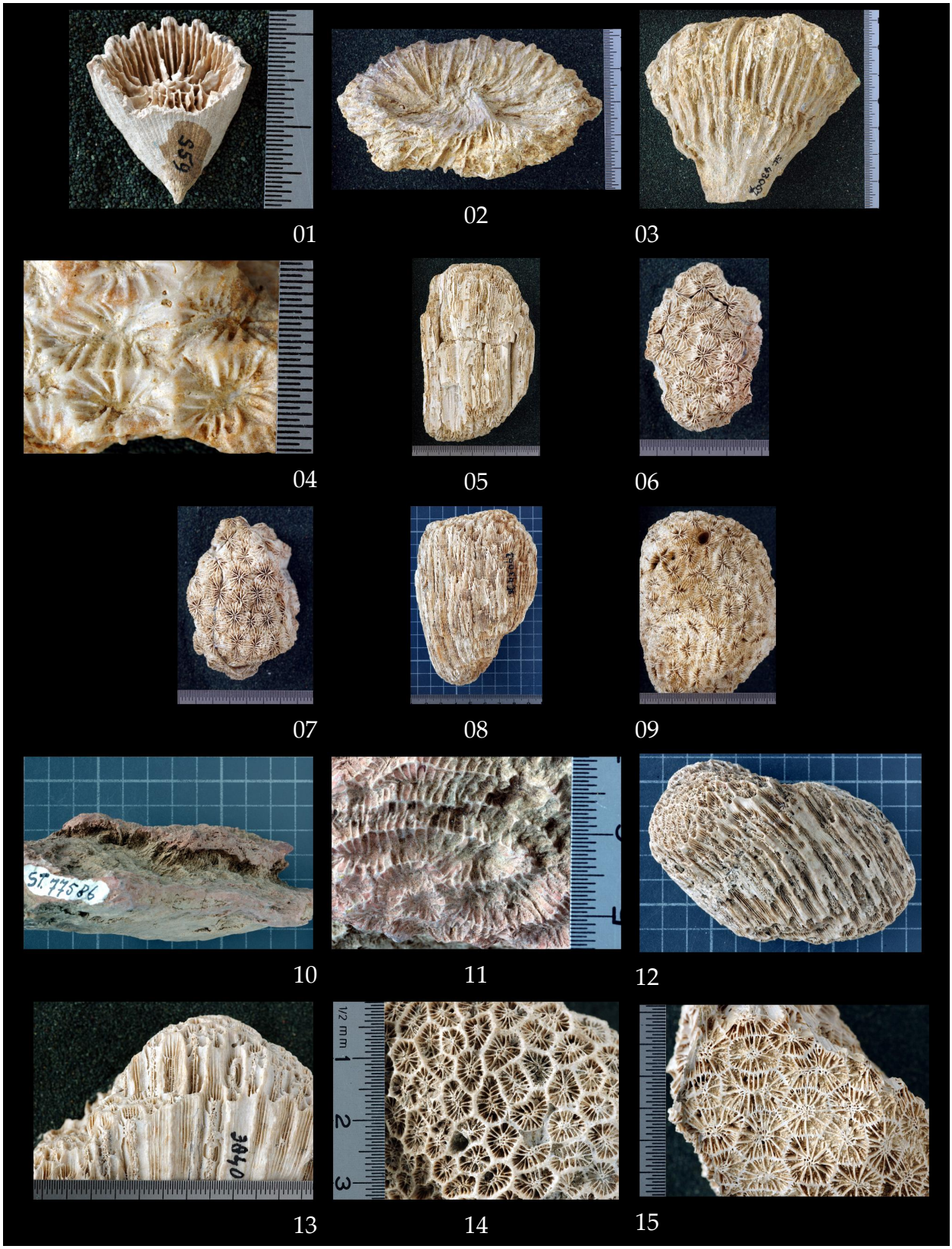
**Plate 33**



# Plate 34

Fig. 1. *Ceratocyathus pressulus* (syntype) in Gerth (1923) (RGM 43032, side view)
Fig. 2. *Ceratophyllia gigantea* (syntype) in Gerth (1923) (RGM 43057, top view)
Fig. 3. *Ceratophyllia gigantea* (syntype) in Gerth (1923) (RGM 43057, side view)
Fig. 4. *Coelastraea rectangularis* (holotype) in Umbgrove (1945) (RGM 77514, top view)
Fig. 5. *Coelocoenia torulosa* (syntype) in Gerth (1923) (RGM 43062, side view)
Fig. 6. *Coelocoenia torulosa* (syntype) in Gerth (1923) (RGM 43062, basal view)
Fig. 7. *Coelocoenia torulosa* (syntype) in Gerth (1923) (RGM 43062, top view)
Fig. 8. *Coelocoenia torulosa* (syntype) in Gerth (1923) (RGM 43063, side view)
Fig. 9. *Coelocoenia torulosa* (syntype) in Gerth (1923) (RGM 43063, top view)
Fig. 10. *Coeloria daedalea* in Umbgrove (1946a) (RGM 77586, side view)
Fig. 11. *Coeloria daedalea* in Umbgrove (1946a) (RGM 77586, top view)
Fig. 12. *Coeloria dubia* in Gerth (1921c) (RGM 3840, overview)
Fig. 13. *Coeloria dubia* in Gerth (1921c) (RGM 3840, side view, approximately the area that is depicted in Gerth, 1921f: pl 55 fig. 7.)
Fig. 14. *Coeloria dubia* in Gerth (1921c) (RGM 3840, top view)
Fig. 15. *Coeloria inaequiseptata* (holotype) in Gerth (1921c) (RGM 3842, top view)

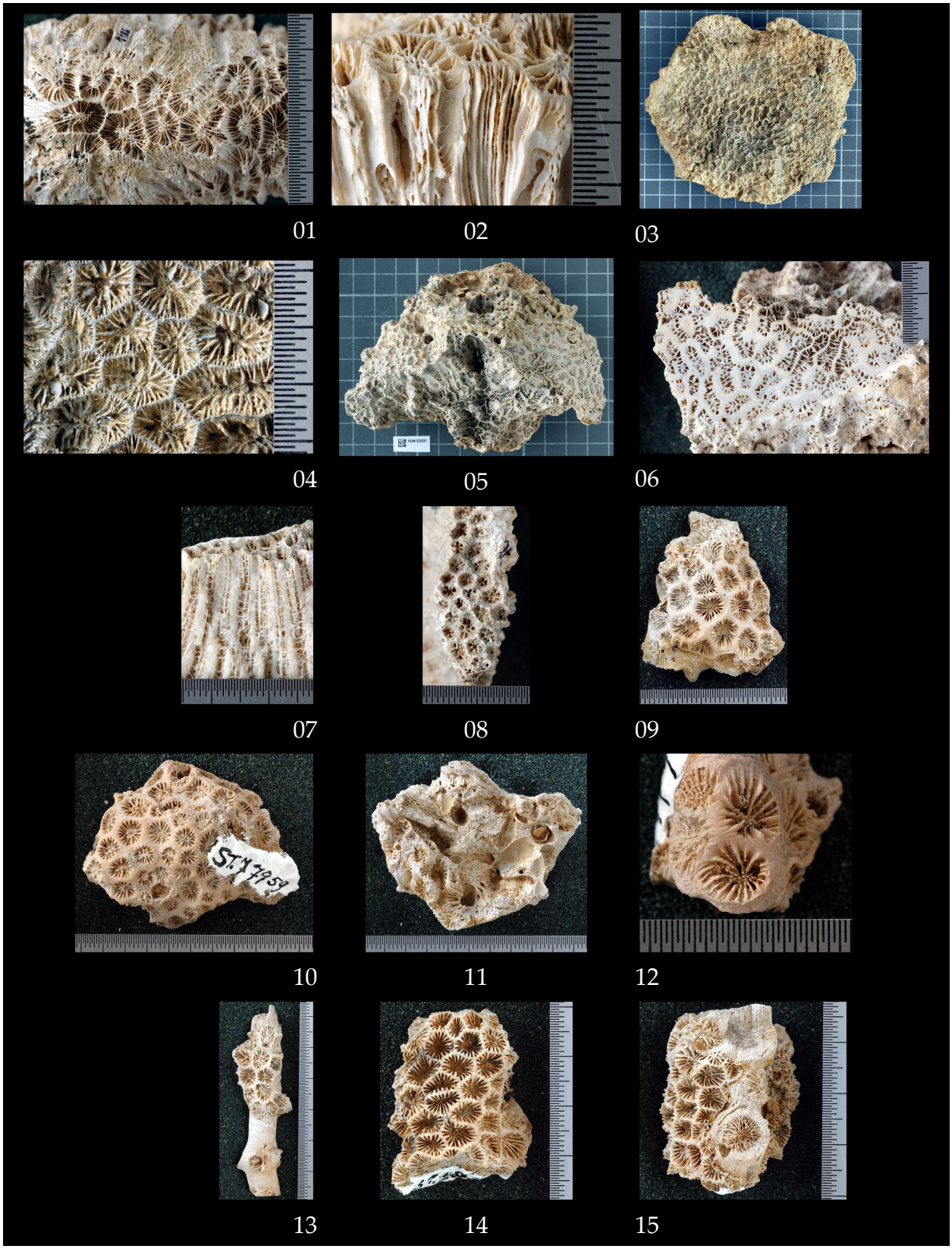
**Plate 34**



# Plate 35

Fig. 1. *Coeloria inaequiseptata* (holotype) in Gerth (1921c) (RGM 3842, basal view)
Fig. 2. *Coeloria inaequiseptata* (holotype) in Gerth (1921c) (RGM 3842, tangential section)
Fig. 3. *Coeloria naroetensis* (syntype) in Gerth (1923) (RGM 43076, top view)
Fig. 4. *Coeloria naroetensis* (syntype) in Gerth (1923) (RGM 43076, top view)
Fig. 5. *Coeloria singularis* (syntype) in Martin (1880a) (RGM 525331, overview)
Fig. 6. *Coeloria singularis* (syntype) in Martin (1880a) (RGM 525331, transverse section)
Fig. 7. *Coeloria singularis* (syntype) in Martin (1880a) (RGM 525332, tangential section)
Fig. 8. *Coeloria singularis* (syntype) in Martin (1880a) (RGM 525332, top view)
Fig. 9. *Coenangia polygonalis* (syntype) in Umbgrove (1950) (RGM 77958, top view)
Fig. 10. *Coenangia polygonalis* (syntype) in Umbgrove (1950) (RGM 77959, top view)
Fig. 11. *Coenangia polygonalis* (syntype) in Umbgrove (1950) (RGM 77959, basal view)
Fig. 12. *Coenangia polygonalis* (syntype) in Umbgrove (1950) (RGM 77960, top view)
Fig. 13. *Coenangia polygonalis* (syntype) in Umbgrove (1950) (RGM 77961, side view)
Fig. 14. *Coenangia polygonalis* (syntype) in Umbgrove (1950) (RGM 78049A, top view)
Fig. 15. *Coenangia polygonalis* (syntype) in Umbgrove (1950) (RGM 78049A, side view)

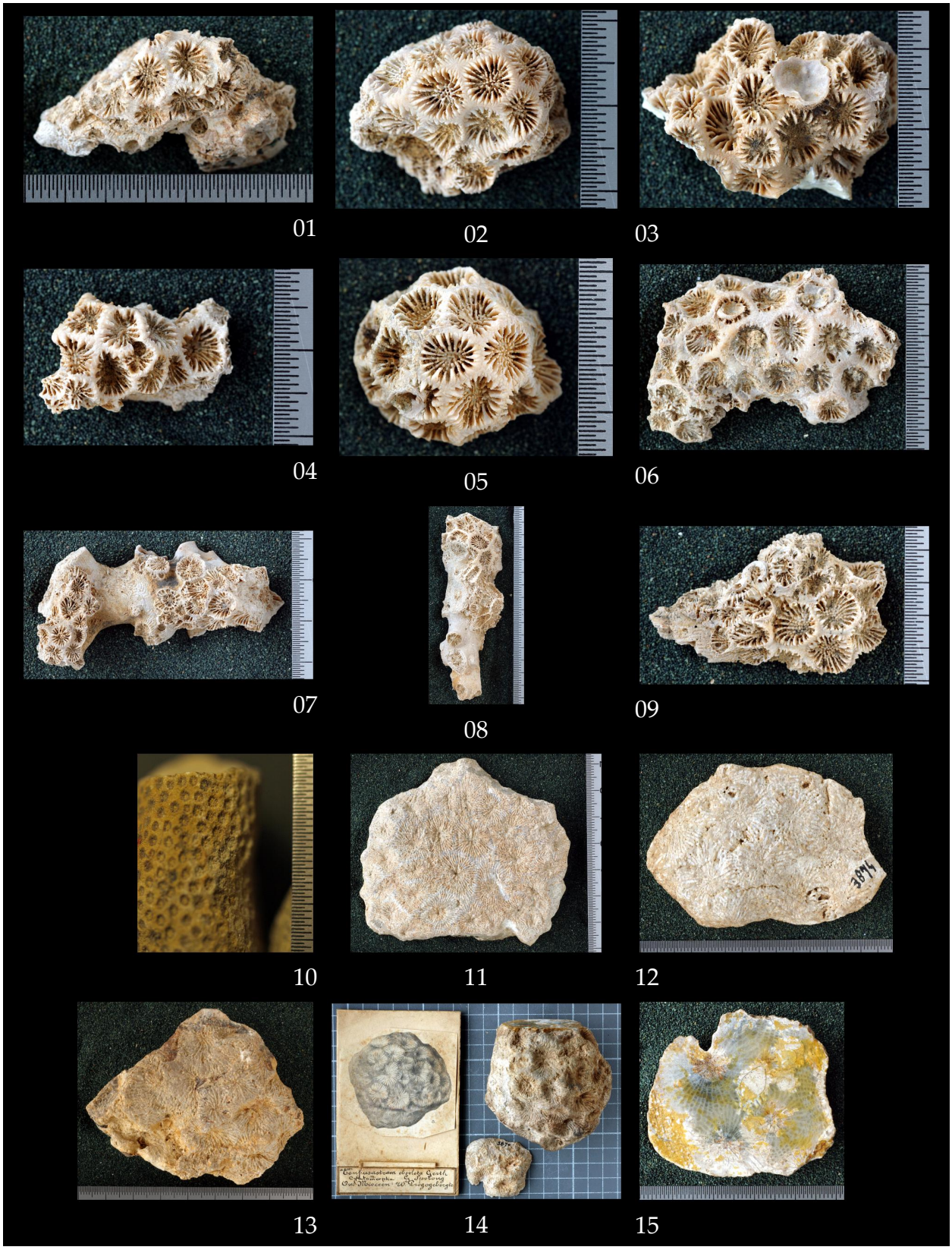
**Plate 35**



# Plate 36

Fig. 1. *Coenangia polygonalis* (syntype) in Umbgrove (1950) (RGM 525372, top view)
Fig. 2. *Coenangia polygonalis* (syntype) in Umbgrove (1950) (RGM 525373, top view)
Fig. 3. *Coenangia polygonalis* (syntype) in Umbgrove (1950) (RGM 525374, top view)
Fig. 4. *Coenangia polygonalis* (syntype) in Umbgrove (1950) (RGM 525375, top view)
Fig. 5. *Coenangia polygonalis* (syntype) in Umbgrove (1950) (RGM 525379, top view)
Fig. 6. *Coenangia polygonalis* (syntype) in Umbgrove (1950) (RGM 525380, top view)
Fig. 7. *Coenangia polygonalis* (syntype) in Umbgrove (1950) (RGM 525381, top view)
Fig. 8. *Coenangia polygonalis* (syntype) in Umbgrove (1950) (RGM 77962, side view)
Fig. 9. *Coenangia polygonalis* (syntype) in Umbgrove (1950) (RGM 78113, top view)
Fig. 10. *Columastrea antiqua* (syntype) in Gerth (1928) (RGM 143052, detail)
Fig. 11. *Confusastraraea obsoleta* (syntype) in Gerth (1921c) (RGM 3872, top view)
Fig. 12. *Confusastraraea obsoleta* (syntype) in Gerth (1921c) (RGM 3874, top view)
Fig. 13. *Confusastraraea obsoleta* (syntype) in Gerth (1921c) (RGM 3873, top view)
Fig. 14. *Confusastraraea obsoleta* (syntype) in Gerth (1921c) (RGM 3870, overview)
Fig. 15. *Confusastraraea obsoleta* (syntype) in Gerth (1921c) (RGM 3870, transverse section)

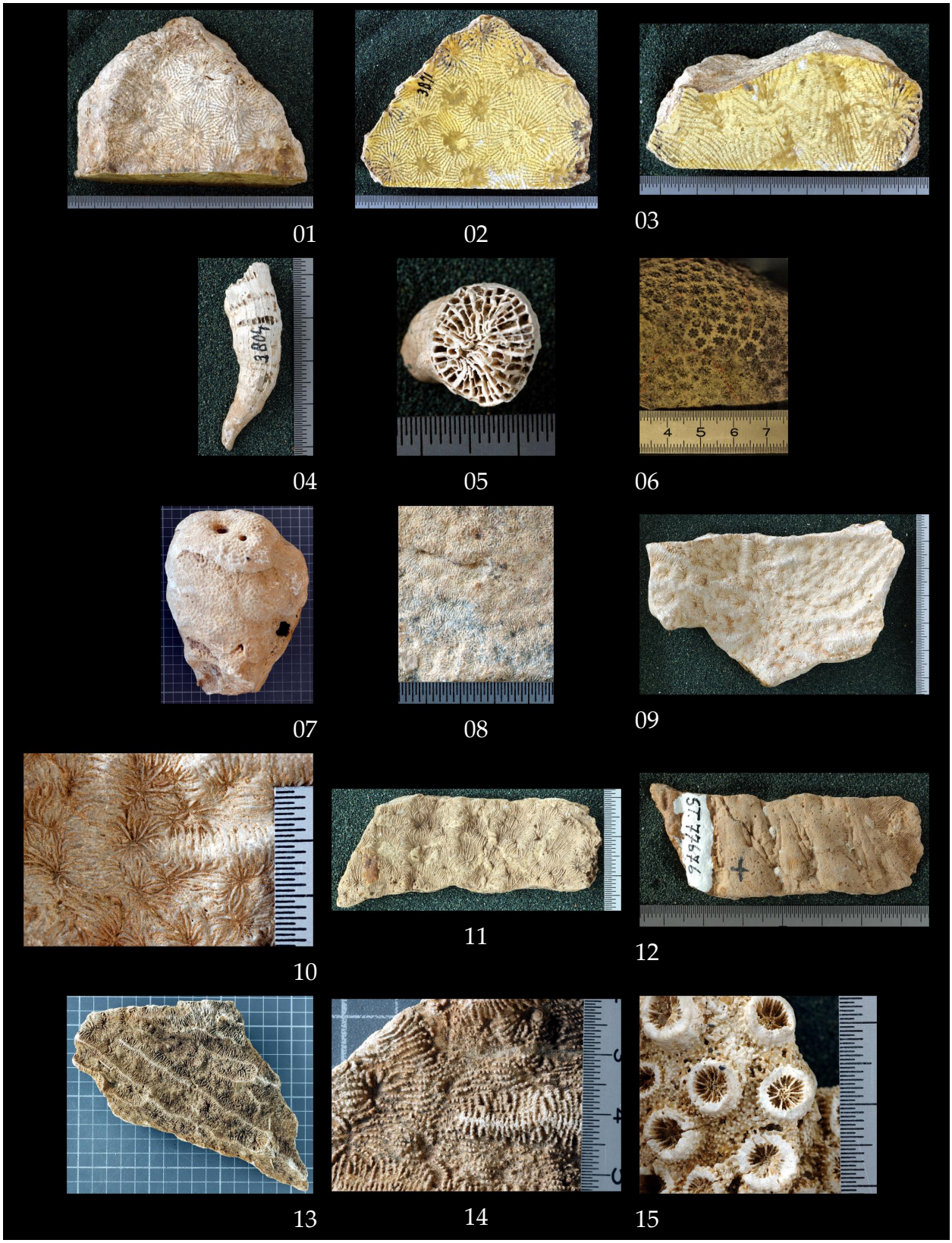
**Plate 36**



# Plate 37

Fig. 1. *Confusastraraea obsoleta* (syntype) in Gerth (1921c) (RGM 3871, top view)
Fig. 2. *Confusastraraea obsoleta* (syntype) in Gerth (1921c) (RGM 3871, transverse section)
Fig. 3. *Confusastraraea obsoleta* (syntype) in Gerth (1921c) (RGM 3871, tangential section)
Fig. 4. *Conosmilia sundaiana* (holotype) in Gerth (1921c) (RGM 3804, side view)
Fig. 5. *Conosmilia sundaiana* (holotype) in Gerth (1921c) (RGM 3804, top view)
Fig. 6. *Convexastrea weaveri* (holotype) in Gerth (1928) (RGM 143060, detail)
Fig. 7. *Coscinaraea columna* in Umbgrove (1946a) (RGM 167671, side view)
Fig. 8. *Coscinaraea columna* in Umbgrove (1946a) (RGM 167671, detail)
Fig. 9. *Cyathoseris crassilamellata* (holotype) in Gerth (1923) (RGM 43124, top view)
Fig. 10. *Cyathoseris crassilamellata* (holotype) in Gerth (1923) (RGM 43124, top view)
Fig. 11. *Cyathoseris crassilamellata* in Umbgrove (1946a) (RGM 77676, top view)
Fig. 12. *Cyathoseris crassilamellata* in Umbgrove (1946a) (RGM 77676, basal view)
Fig. 13. *Cyathoseris lophiophora* in Umbgrove (1946a) (RGM 77670, top view)
Fig. 14. *Cyathoseris lophiophora* in Umbgrove (1946a) (RGM 77670, top view)
Fig. 15. *Cyphastraea crassa* (syntype) in Gerth (1923) (RGM 43092, top view)

**Plate 37**



# Plate 38

Fig. 1. *Cyphastraea crassa* (syntype) in Gerth (1923) (RGM 43092, side view)
Fig. 2. *Cyphastraea gemmulifera* (holotype) in Gerth (1921c) (RGM 3861, top view)
Fig. 3. *Cyphastraea gemmulifera* (holotype) in Gerth (1921c) (RGM 3861, tangential section)
Fig. 4. *Cyphastraea gemmulifera* in Gerth (1923) (RGM 43090, top view)
Fig. 5. *Cyphastraea gemmulifera* in Gerth (1923) (RGM 43090, top view)
Fig. 6. *Cyphastraea microphthalma* in Umbgrove (1946a) (RGM 77582, top view)
Fig. 7. *Cyphastraea microphthalma* in Umbgrove (1946a) (RGM 77582, side view)
Fig. 8. *Cyphastraea microphthalma* in Umbgrove (1946a) (RGM 77582, top view)
Fig. 9. *Cyphastraea niasensis* in Oosterbaan (1985), syntype in Gerth (1925) (RGM 17984, top view)
Fig. 10. *Cyphastraea tubifera* (syntype) in Gerth (1923) (RGM 17708, basal view)
Fig. 11. *Cyphastraea tubifera* (syntype) in Gerth (1923) (RGM 17708, side view)
Fig. 12. *Cyphastraea tubifera* (syntype) in Gerth (1923) (RGM 17707, top view)
Fig. 13. *Cyphastraea tubifera* (syntype) in Gerth (1923) (RGM 17707, side view)
Fig. 14. *Solenastraea arborescens* (syntype) in Gerth (1925) (RGM 17979, side view)
Fig. 15. *Solenastraea arborescens* (syntype) in Gerth (1925) (RGM 17979, side view)

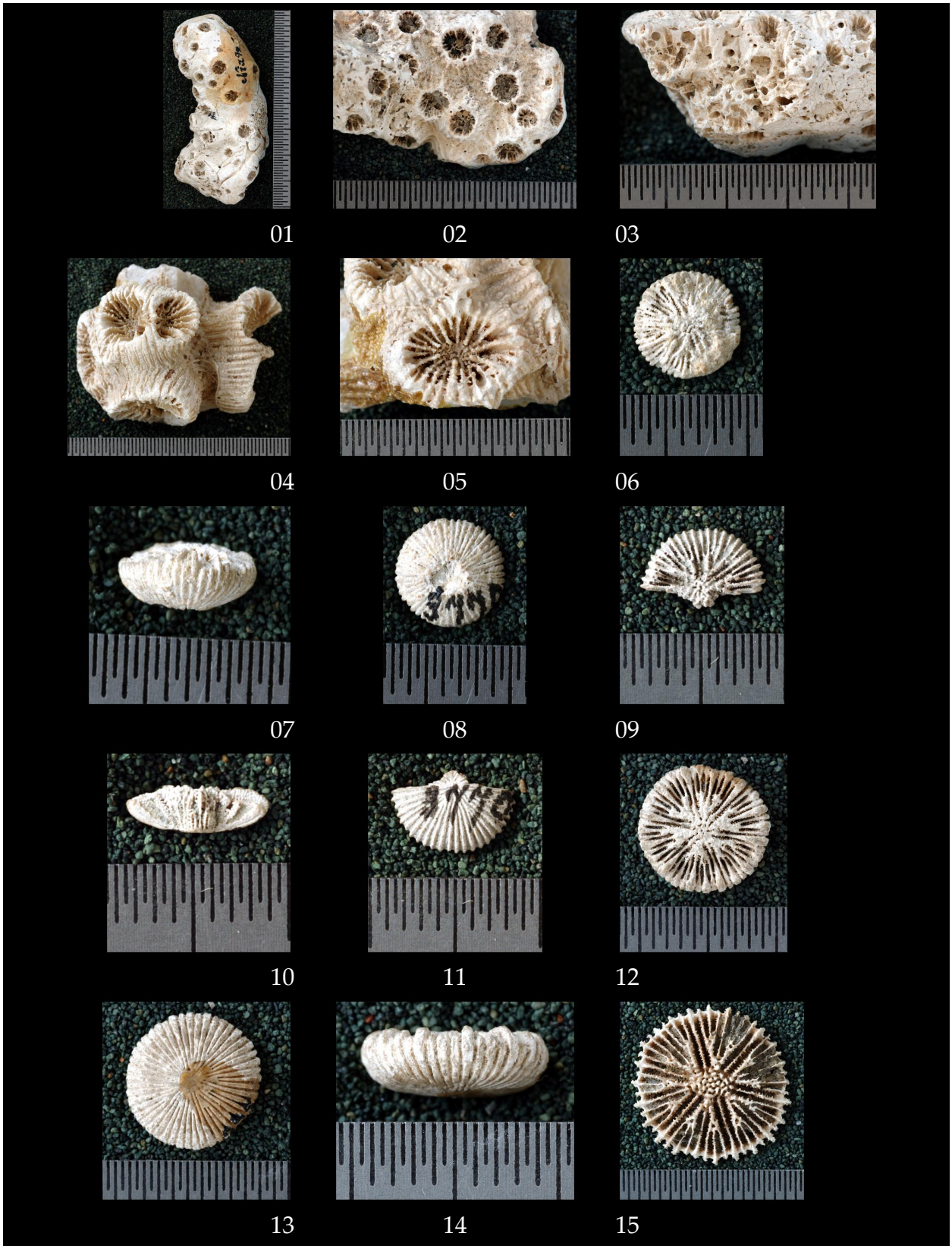
**Plate 38**



# Plate 39

Fig. 1. *Solenastraea arborescens* (syntype) in Gerth (1925) (RGM 167813, side view)
Fig. 2. *Solenastraea arborescens* (syntype) in Gerth (1925) (RGM 167813, top view)
Fig. 3. *Solenastraea arborescens* (syntype) in Gerth (1925) (RGM 167814, detail)
Fig. 4. *Dasyphyllia brevicaulis* (holotype) in Felix (1915) (THDKA 13652, top view)
Fig. 5. *Dasyphyllia brevicaulis* (holotype) in Felix (1915) (THDKA 13652, top view)
Fig. 6. *Deltocyathus australis* (syntype) in Gerth (1921c) (RGM 3770, top view)
Fig. 7. *Deltocyathus australis* (syntype) in Gerth (1921c) (RGM 3770, side view)
Fig. 8. *Deltocyathus australis* (syntype) in Gerth (1921c) (RGM 3770, basal view)
Fig. 9. *Deltocyathus australis* (syntype) in Gerth (1921c) (RGM 167525, top view)
Fig. 10. *Deltocyathus australis* (syntype) in Gerth (1921c) (RGM 167525, radial section)
Fig. 11. *Deltocyathus australis* (syntype) in Gerth (1921c) (RGM 167525, basal view)
Fig. 12. *Deltocyathus australis* in Gerth (1923) (RGM 43019, top view)
Fig. 13. *Deltocyathus australis* in Gerth (1923) (RGM 43019, basal view)
Fig. 14. *Deltocyathus australis* in Gerth (1923) (RGM 43019, side view)
Fig. 15. *Deltocyathus tuberculatus* (syntype) in Gerth (1923) (RGM 43021, top view)

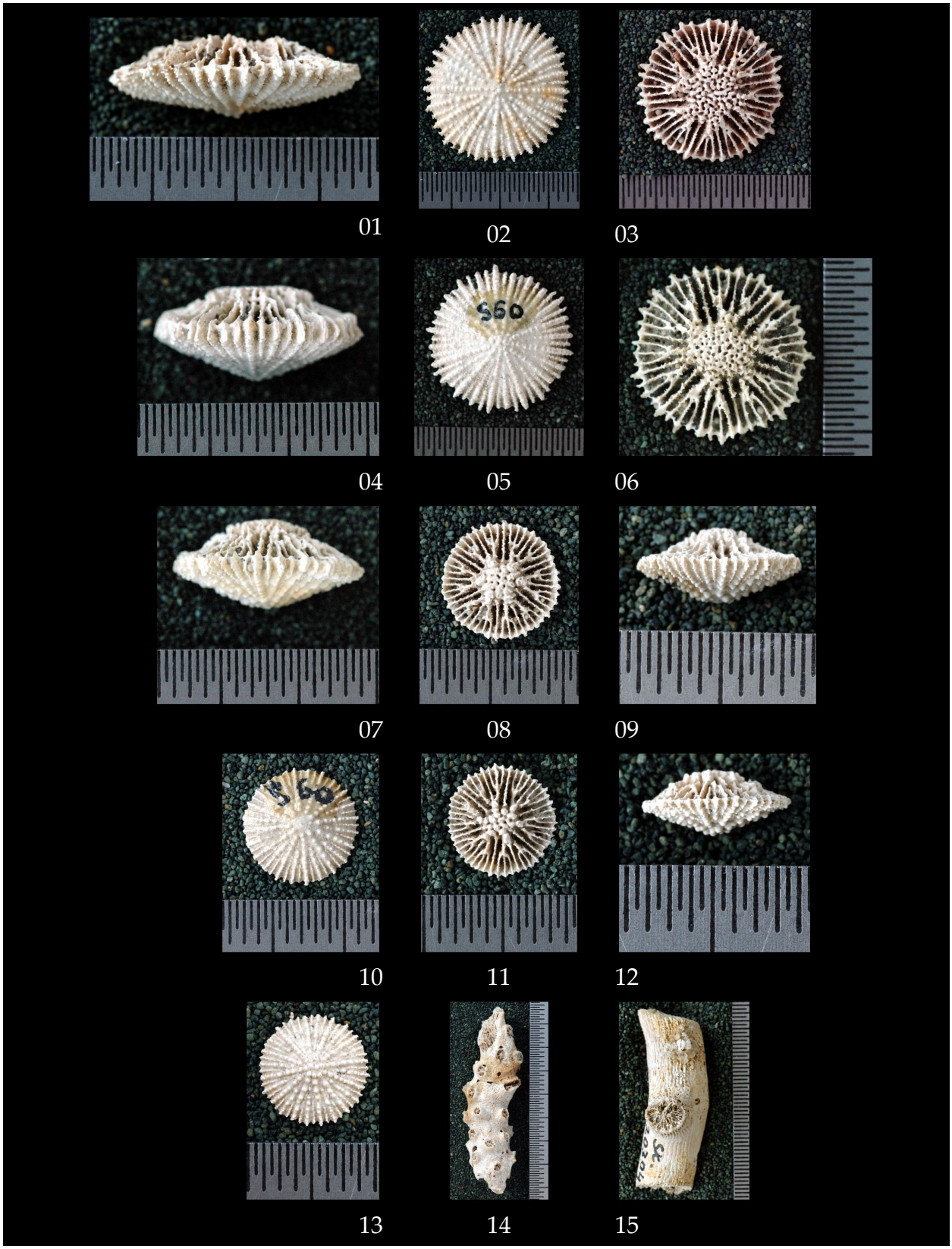
**Plate 39**



# Plate 40

Fig. 1. *Deltocyathus tuberculatus* (syntype) in Gerth (1923) (RGM 43021, side view)
Fig. 2. *Deltocyathus tuberculatus* (syntype) in Gerth (1923) (RGM 43021, basal view)
Fig. 3. *Deltocyathus tuberculatus* (syntype) in Gerth (1923) (RGM 167770, top view)
Fig. 4. *Deltocyathus tuberculatus* (syntype) in Gerth (1923) (RGM 167770, side view)
Fig. 5. *Deltocyathus tuberculatus* (syntype) in Gerth (1923) (RGM 167770, basal view)
Fig. 6. *Deltocyathus tuberculatus* (syntype) in Gerth (1923) (RGM 167771, top view)
Fig. 7. *Deltocyathus tuberculatus* (syntype) in Gerth (1923) (RGM 167771, side view)
Fig. 8. *Deltocyathus tuberculatus* (syntype) in Gerth (1923) (RGM 525395, top view)
Fig. 9. *Deltocyathus tuberculatus* (syntype) in Gerth (1923) (RGM 525395, side view)
Fig. 10. *Deltocyathus tuberculatus* (syntype) in Gerth (1923) (RGM 525395, basal view)
Fig. 11. *Deltocyathus tuberculatus* (syntype) in Gerth (1923) (RGM 525397, top view)
Fig. 12. *Deltocyathus tuberculatus* (syntype) in Gerth (1923) (RGM 525397, side view)
Fig. 13. *Deltocyathus tuberculatus* (syntype) in Gerth (1923) (RGM 525397, basal view)
Fig. 14. *Dendracis sp.* in Oosterbaan (1985), Gerth (1925) (RGM 17981, side view)
Fig. 15. *Dendrophyllia rutteni* (syntype) in Gerth (1921c) (RGM 525333, side view)

**Plate 40**



# Plate 41

Fig. 1. *Dendrophyllia rutteni* (syntype) in Gerth (1921c) (RGM 525333, transverse section)
Fig. 2. *Dendrophyllia rutteni* (syntype) in Gerth (1921c) (RGM 525334, side view)
Fig. 3. *Dendrophyllia rutteni* (syntype) in Gerth (1921c) (RGM 525334, transverse section)
Fig. 4. *Dendrophyllia rutteni* (syntype) in Gerth (1921c) (RGM 525334, transverse section)
Fig. 5. *Dendrophyllia rutteni* (syntype) in Gerth (1921c) (RGM 525335, side view)
Fig. 6. *Dendrophyllia rutteni* (syntype) in Gerth (1921c) (RGM 525335, transverse section)
Fig. 7. *Dendrophyllia rutteni* (syntype) in Gerth (1921c) (RGM 3950, side view)
Fig. 8. *Dendrophyllia rutteni* (syntype) in Gerth (1921c) (RGM 3950, side view)
Fig. 9. *Dendrophyllia rutteni* (syntype) in Gerth (1921c) (RGM 3950, top view)
Fig. 10. *Dendrophyllia rutteni* (syntype) in Gerth (1921c) (RGM 167567, side view)
Fig. 11. *Dendrophyllia rutteni* (syntype) in Gerth (1921c) (RGM 167567, top view)
Fig. 12. *Dendrophyllia rutteni* (syntype) in Gerth (1921c) (RGM 167567, transverse section)
Fig. 13. *Dendrophyllia rutteni* (syntype) in Gerth (1921c) (RGM 525207, side view)
Fig. 14. *Dendrophyllia rutteni* (syntype) in Gerth (1921c) (RGM 525207, top view)
Fig. 15. *Dendrophyllia rutteni* (syntype) in Gerth (1921c) (RGM 525208, top view)

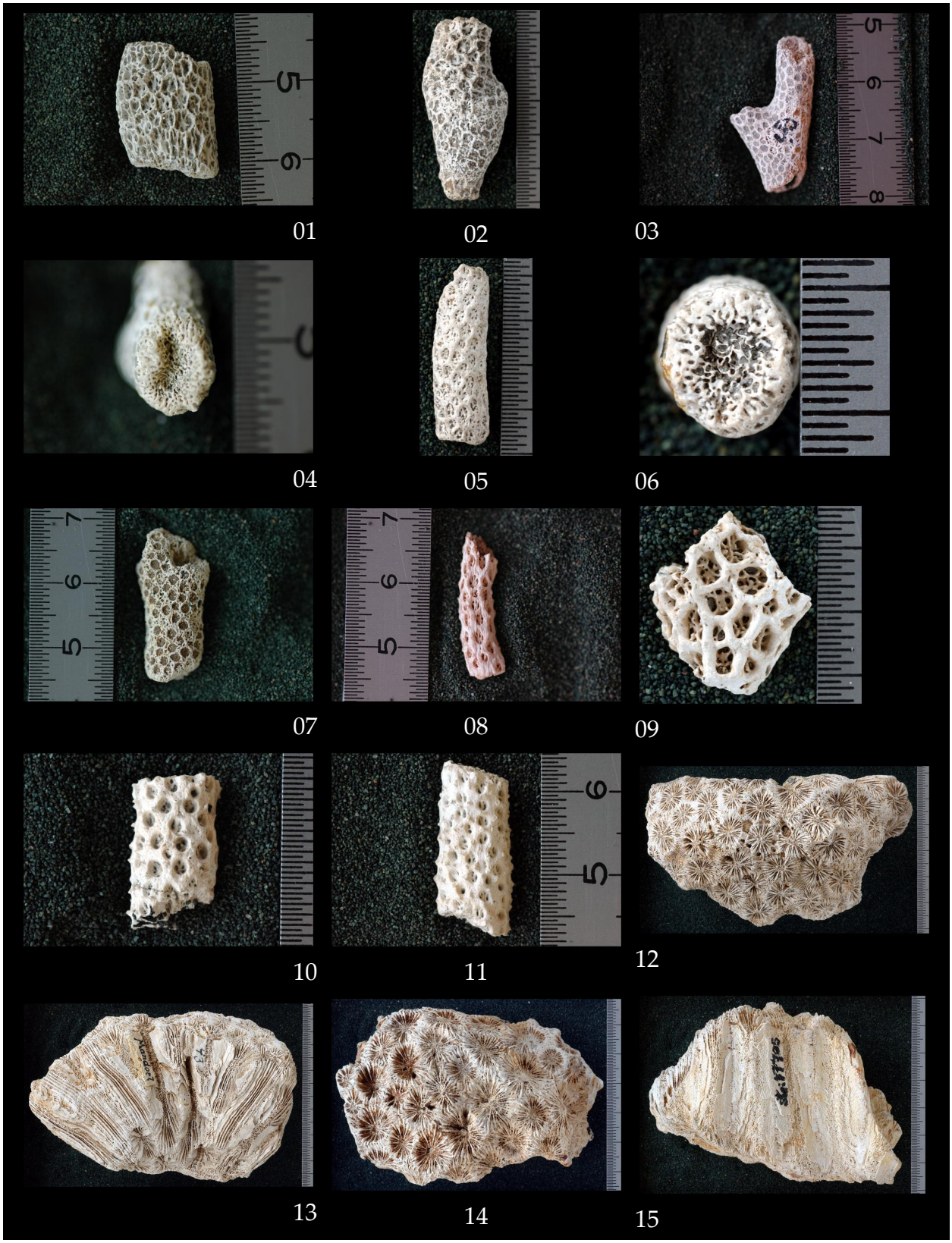
**Plate 41**



# Plate 42

Fig. 1. *Dictyaraea anomala* in Martin (1880a) (RGM 3969, side view)
Fig. 2. *Dictyaraea anomala* in Martin (1880a) (RGM 167570, side view)
Fig. 3. *Dictyaraea micrantha* in Martin (1880a) (RGM 3977, side view)
Fig. 4. *Dictyaraea micrantha* in Martin (1880a) (RGM 3977, basal view)
Fig. 5. *Dictyaraea micrantha* in Martin (1880a) (RGM 3984, side view)
Fig. 6. *Dictyaraea micrantha* in Martin (1880a) (RGM 3984, transverse section)
Fig. 7. *Dictyaraea micrantha var. spinosa* (syntype) in Gerth (1921c) (RGM 525201, side view)
Fig. 8. *Dictyaraea micrantha var. spinosa* (syntype) in Gerth (1921c) (RGM 525202, side view)
Fig. 9. *Dictyaraea micrantha var. spinosa* (syntype) in Gerth (1921c) (RGM 3987, side view)
Fig. 10. *Dictyaraea micrantha var. spinosa* (syntype) in Gerth (1921c) (RGM 525203, side view)
Fig. 11. *Dictyaraea micrantha var. spinosa* (syntype) in Gerth (1921c) (RGM 525204, side view)
Fig. 12. *Diploastrea heliopora var. borneensis* (syntype) in Gerth (1923) (RGM 525393, top view)
Fig. 13. *Diploastrea heliopora var. borneensis* (syntype) in Gerth (1923) (RGM 525393, side view)
Fig. 14. *Diploastrea heliopora var. borneensis* (syntype) in Gerth (1923) (RGM 525394, top view)
Fig. 15. *Diploastrea heliopora var. borneensis* (syntype) in Gerth (1923) (RGM 525394, side view)

**Plate 42**



# Plate 43

Fig. 1. *Diplohelia complanata* (syntype) in Gerth (1923) (RGM 43005, side view)
Fig. 2. *Diplohelia complanata* (syntype) in Gerth (1923) (RGM 43005, top view)
Fig. 3. *Diplohelia complanata* (syntype) in Gerth (1923) (RGM 167799, side view)
Fig. 4. *Diplohelia complanata* (syntype) in Gerth (1923) (RGM 167799, top view)
Fig. 5. *Diplohelia complanata* (syntype) in Gerth (1923) (RGM 525391, side view)
Fig. 6. *Diplohelia complanata* (syntype) in Gerth (1923) (RGM 525391, top view)
Fig. 7. *Diplohelia complanata* (syntype) in Gerth (1923) (RGM 525392, side view)
Fig. 8. *Diplohelia complanata* (syntype) in Gerth (1923) (RGM 525392, top view)
Fig. 9. *Diplohelia malayica* (syntype) in Gerth (1923), syntype in Gerth (1921c) (RGM 17702, side view)
Fig. 10. *Diplohelia malayica* (syntype) in Gerth (1921c) (RGM 167562, side view)
Fig. 11. *Diplohelia malayica* (syntype) in Gerth (1921c) (RGM 167562, transverse section)
Fig. 12. *Diplohelia malayica* (syntype) in Gerth (1921c) (RGM 3937, side view)
Fig. 13. *Diplohelia malayica* (syntype) in Gerth (1921c) (RGM 3938, side view)
Fig. 14. *Diplohelia malayica* (syntype) in Gerth (1921c) (RGM 3938, side view)
Fig. 15. *Diplohelia malayica* (syntype) in Gerth (1921c) (RGM 3938, side view)

**Plate 43**



# Plate 44

Fig. 1. *Diplohelia malayica* (syntype) in Gerth (1921c) (RGM 3939, side view)
Fig. 2. *Diplohelia malayica* (syntype) in Gerth (1921c) (RGM 3939, side view)
Fig. 3. *Echinophyllia robusta* (syntype) in Gerth (1923) (RGM 43116, top view)
Fig. 4. *Echinophyllia robusta* (syntype) in Gerth (1923) (RGM 43116, top view)
Fig. 5. *Echinophyllia robusta* (syntype) in Gerth (1923) (RGM 43116, tangential section)
Fig. 6. *Echinopora gemmacea crassatina* (syntype) in Gerth (1921c) (RGM 3864, top view)
Fig. 7. *Echinopora gemmacea crassatina* (syntype) in Gerth (1921c) (RGM 3864, basal view)
Fig. 8. *Echinopora gemmacea crassatina* (syntype) in Gerth (1921c) (RGM 3864, radial section)
Fig. 9. *Echinopora gemmacea crassatina* (syntype) in Gerth (1921c) (RGM 525367, basal view)
Fig. 10. *Echinopora gemmacea crassatina* (syntype) in Gerth (1921c) (RGM 525367, tangential section)
Fig. 11. *Echinopora gemmacea crassatina* (syntype) in Gerth (1921c) (RGM 525367, top view)
Fig. 12. *Echinopora gemmacea crassatina* (syntype) in Gerth (1921c) (RGM 525368, top view)
Fig. 13. *Echinopora gemmacea crassatina* (syntype) in Gerth (1921c) (RGM 525368, side view)
Fig. 14. *Echinopora gemmacea parva* (holotype) in Umbgrove (1946a) (RGM 77636, top view)
Fig. 15. *Echinopora gemmacea parva* (holotype) in Umbgrove (1946a) (RGM 77636, basal view)

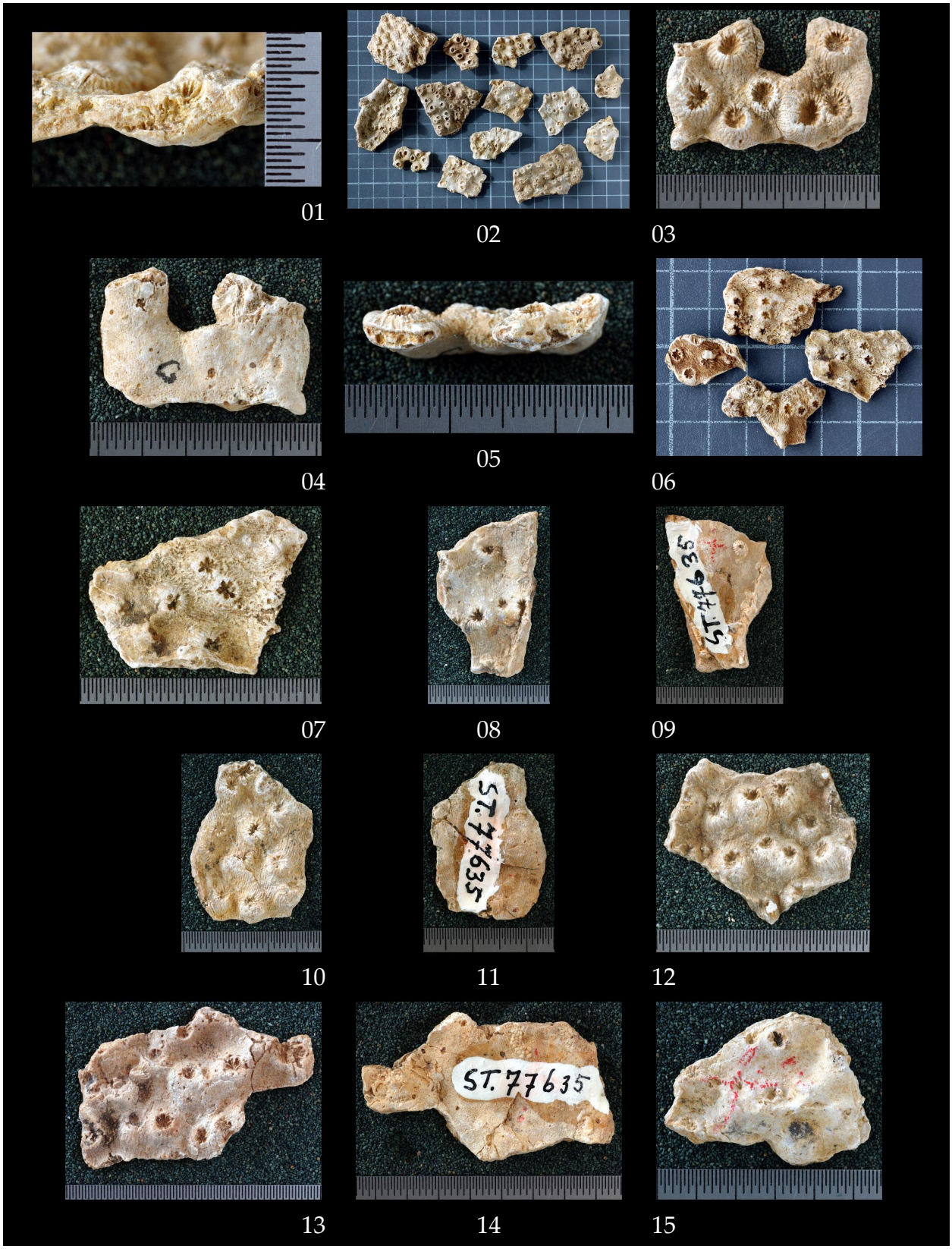
**Plate 44**



# Plate 45

Fig. 1. *Echinopora gemmacea parva* (holotype) in Umbgrove (1946a) (RGM 77636, tangential section)
Fig. 2. *Echinopora gemmacea parva* (paratype) in Umbgrove (1946a) (RGM 77637, overview)
Fig. 3. *Echinopora gemmacea parva* (paratype) in Umbgrove (1946a) (RGM 77637, top view)
Fig. 4. *Echinopora gemmacea parva* (paratype) in Umbgrove (1946a) (RGM 77637, basal view)
Fig. 5. *Echinopora gemmacea parva* (paratype) in Umbgrove (1946a) (RGM 77637, side view)
Fig. 6. *Echinopora gemmacea parva* (paratype) in Umbgrove (1946a) (RGM 167668, overview)
Fig. 7. *Echinopora gemmacea parva* (paratype) in Umbgrove (1946a) (RGM 167668, top view)
Fig. 8. *Echinopora gemmacea parva* (paratype) in Umbgrove (1946a) (RGM 525348, top view)
Fig. 9. *Echinopora gemmacea parva* (paratype) in Umbgrove (1946a) (RGM 525348, basal view)
Fig. 10. *Echinopora gemmacea parva* (paratype) in Umbgrove (1946a) (RGM 525349, top view)
Fig. 11. *Echinopora gemmacea parva* (paratype) in Umbgrove (1946a) (RGM 525349, basal view)
Fig. 12. *Echinopora gemmacea parva* (paratype) in Umbgrove (1946a) (RGM 525350, top view)
Fig. 13. *Echinopora gemmacea parva* (paratype) in Umbgrove (1946a) (RGM 525351, top view)
Fig. 14. *Echinopora gemmacea parva* (paratype) in Umbgrove (1946a) (RGM 525351, basal view)
Fig. 15. *Echinopora gemmacea parva* (paratype) in Umbgrove (1946a) (RGM 525352, top view)

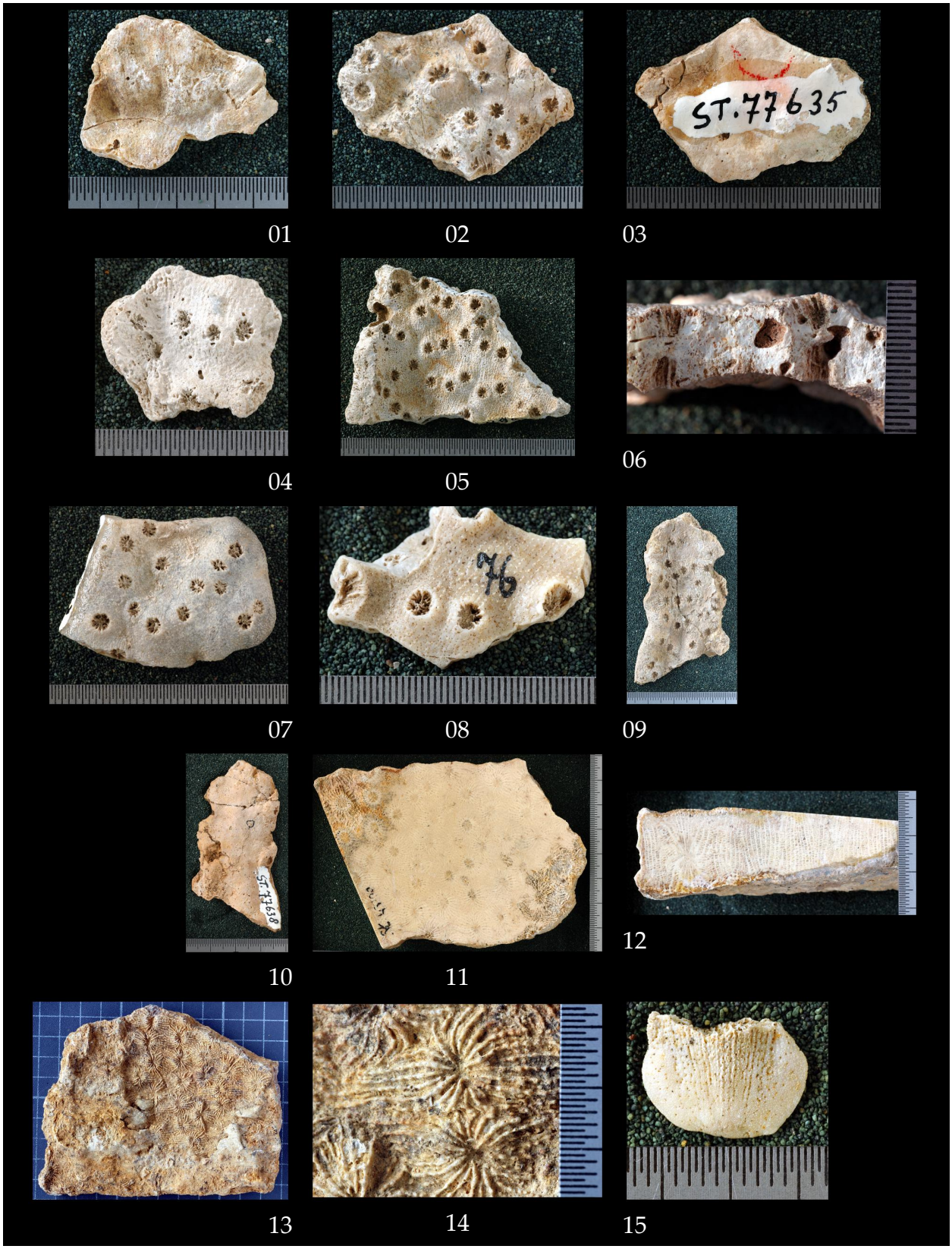
**Plate 45**



# Plate 46

Fig. 1. *Echinopora gemmacea parva* (paratype) in Umbgrove (1946a) (RGM 525352, basal view)
Fig. 2. *Echinopora gemmacea parva* (paratype) in Umbgrove (1946a) (RGM 525353, top view)
Fig. 3. *Echinopora gemmacea parva* (paratype) in Umbgrove (1946a) (RGM 525353, basal view)
Fig. 4. *Echinopora porosa* (syntype) in Gerth (1925) (RGM 125798, top view)
Fig. 5. *Echinopora porosa* (syntype) in Gerth (1925) (RGM 125796, top view)
Fig. 6. *Echinopora porosa* (syntype) in Gerth (1925) (RGM 125796, transverse section)
Fig. 7. *Echinopora porosa* (syntype) in Gerth (1925) (RGM 125797, top view)
Fig. 8. *Echinopora porosa* (syntype) in Gerth (1925) (RGM 529383, top view)
Fig. 9. *Echinopora porosa* in Umbgrove (1946a) (RGM 77638, top view)
Fig. 10. *Echinopora porosa* in Umbgrove (1946a) (RGM 77638, basal view)
Fig. 11. *Echinopora pelarangensis* (syntype) in Gerth (1923) (RGM 43100, top view)
Fig. 12. *Echinopora pelarangensis* (syntype) in Gerth (1923) (RGM 43100, tangential section)
Fig. 13. *Echinopora pelarangensis* (syntype) in Gerth (1923) (RGM 43101, top view)
Fig. 14. *Echinopora pelarangensis* (syntype) in Gerth (1923) (RGM 43101, top view)
Fig. 15. *Endopachys grayi* in Umbgrove (1950) (RGM 167695, side view)

**Plate 46**



# Plate 47

Fig. 1. *Endopachys grayi* in Umbgrove (1950) (RGM 167695, top view)
Fig. 2. *Endopachys grayi* in Umbgrove (1950) (RGM 167696, side view)
Fig. 3. *Endopachys grayi* in Umbgrove (1950) (RGM 167696, top view)
Fig. 4. *Endopachys grayi* in Umbgrove (1950) (RGM 167697, side view)
Fig. 5. *Endopachys grayi* in Umbgrove (1950) (RGM 167697, top view)
Fig. 6. *Endopachys grayi* in Umbgrove (1950) (RGM 167698, top view)
Fig. 7. *Favia junghuhni* in Martin (1880a) (RGM 3834, top view)
Fig. 8. *Favia junghuhni* in Martin (1880a) (RGM 3834, radial section)
Fig. 9. *Favia junghuhni* in Martin (1880a) (RGM 167544, top view)
Fig. 10. *Favia junghuhni* in Martin (1880a) (RGM 167544, tangential section)
Fig. 11. *Favia speciosa* in Umbgrove (1946a) (RGM 77671, top view)
Fig. 12. *Favia speciosa* in Umbgrove (1946a) (RGM 77671, top view)
Fig. 13. *Favia sp.* in Umbgrove (1946a) (RGM 77603, top view)
Fig. 14. *Favites abdita* in Umbgrove (1946a) (RGM 77602, top view)
Fig. 15. *Favites borneensis* (syntype) in Gerth (1923), Gerth (1921c) (RGM 3844, side view)

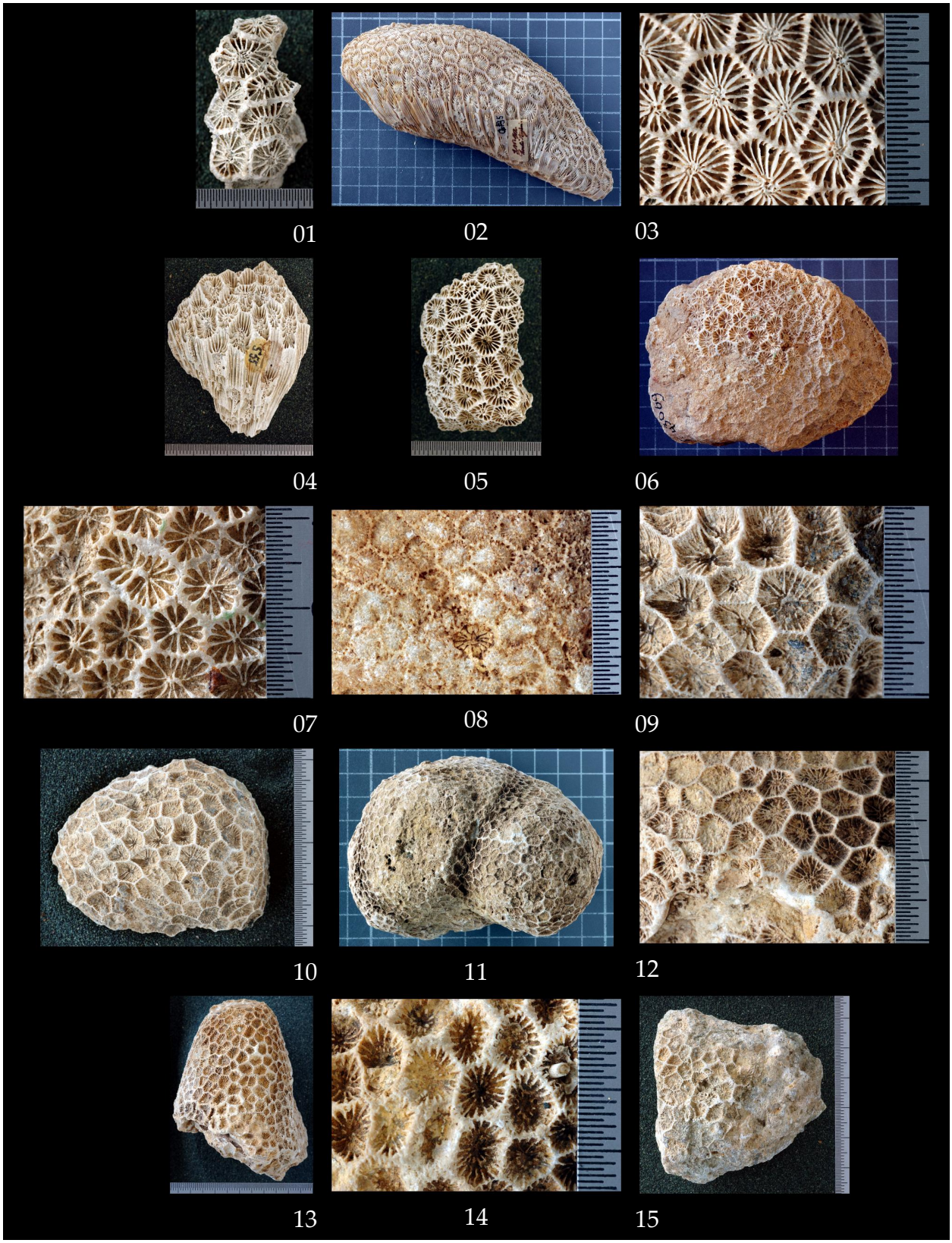
**Plate 47**



# Plate 48

Fig. 1. *Favites borneensis* (syntype) in Gerth (1923), Gerth (1921c) (RGM 3844, top view)
Fig. 2. *Favites borneensis* (syntype) in Gerth (1923) (RGM 17763, overview)
Fig. 3. *Favites borneensis* (syntype) in Gerth (1923) (RGM 17763, top view)
Fig. 4. *Favites borneensis* (syntype) in Gerth (1923) (RGM 43074, side view)
Fig. 5. *Favites borneensis* (syntype) in Gerth (1923) (RGM 43074, top view)
Fig. 6. *Favites pauciseptata* (holotype) in Gerth (1923) (RGM 43069, top view)
Fig. 7. *Favites pauciseptata* (holotype) in Gerth (1923) (RGM 43069, top view)
Fig. 8. *Favites pentagona tenuis* (syntype) in Umbgrove (1946a), Umbgrove (1945) (RGM 77511, top view)
Fig. 9. *Favites pentagona tenuis* (syntype) in Umbgrove (1946a) (RGM 77597, top view)
Fig. 10. *Favites pentagona tenuis* (syntype) in Umbgrove (1946a) (RGM 77597, top view)
Fig. 11. *Favites pentagona tenuis* (syntype) in Umbgrove (1946a) (RGM 77599, top view)
Fig. 12. *Favites pentagona tenuis* (syntype) in Umbgrove (1946a) (RGM 77599, top view)
Fig. 13. *Favites pentagona tenuis* (syntype) in Umbgrove (1946a) (RGM 77601, side view)
Fig. 14. *Favites pentagona tenuis* (syntype) in Umbgrove (1946a) (RGM 77601, top view)
Fig. 15. *Favites pentagona tenuis* (syntype) in Umbgrove (1946a) (RGM 525355, top view)

**Plate 48**



# Plate 49

Fig. 1. *Favites pentagona tenuis* (syntype) in Umbgrove (1946a) (RGM 525356, radial section)
Fig. 2. *Favites pentagona tenuis* (syntype) in Umbgrove (1946a) (RGM 525357, top view)
Fig. 3. *Favites pentagona tenuis* (syntype) in Umbgrove (1946a) (RGM 525359, top view)
Fig. 4. *Favites pentagona tenuis* (syntype) in Umbgrove (1946a) (RGM 525359, side view)
Fig. 5. *Favites pentagona tenuis* (syntype) in Umbgrove (1946a) (RGM 525360, top view)
Fig. 6. *Metastraea aegyptorum* in Umbgrove (1946a) (RGM 77587, top view)
Fig. 7. *Metastraea aegyptorum* in Umbgrove (1946a) (RGM 77587, top view)
Fig. 8. *Flabellum insulindae* (syntype) in Felix (1920) (THDKA 13650, top view)
Fig. 9. *Flabellum insulindae* (syntype) in Felix (1920) (THDKA 13650, side view)
Fig. 10. *Flabellum insulindae* (syntype) in Felix (1920) (THDKA 13649, top view)
Fig. 11. *Flabellum insulindae* (syntype) in Felix (1920) (THDKA 13649, side view)
Fig. 12. *Flabellum irregulare* in Gerth (1921c) (RGM 3784, side view)
Fig. 13. *Flabellum irregulare* in Gerth (1921c) (RGM 3784, top view)
Fig. 14. *Flabellum pavonium var. distinctum* in Martin (1880a) (RGM 3788, side view)
Fig. 15. *Flabellum pavonium var. distinctum* in Martin (1880a) (RGM 3788, top view)

**Plate 49**



# Plate 50

Fig. 1. *Flabellum pavonium var. distinctum* in Martin (1880a) (RGM 167534, side view)
Fig. 2. *Flabellum pavonium var. distinctum* in Martin (1880a) (RGM 167534, top view)
Fig. 3. *Flabellum pavonium var. distinctum* in Martin (1880a) (RGM 167535, top view)
Fig. 4. *Flabellum pavonium var. distinctum* in Martin (1880a) (RGM 167535, side view)
Fig. 5. *Flabellum pavonium var. distinctum* in Martin (1880a) (RGM 167535, side view)
Fig. 6. *Flabellum pavonium var. distinctum* in Umbgrove (1950) (RGM 77842, top view)
Fig. 7. *Flabellum pavonium var. distinctum* in Umbgrove (1950) (RGM 77842, side view)
Fig. 8. *Flabellum poseidonis* (holotype) in Felix (1920) (THDKA 13651, side view)
Fig. 9. *Flabellum poseidonis* (holotype) in Felix (1920) (THDKA 13651, top view)
Fig. 10. *Flabellum rubrum* in Umbgrove (1950) (RGM 77860, top view)
Fig. 11. *Flabellum rubrum* in Umbgrove (1950) (RGM 77860, side view)
Fig. 12. *Flabellum rubrum* in Umbgrove (1950) (RGM 167676, side view)
Fig. 13. *Flabellum rubrum* in Umbgrove (1950) (RGM 167676, top view)
Fig. 14. *Flabellum rubrum* in Umbgrove (1950) (RGM 167677, side view)
Fig. 15. *Flabellum rubrum* in Umbgrove (1950) (RGM 167677, top view)

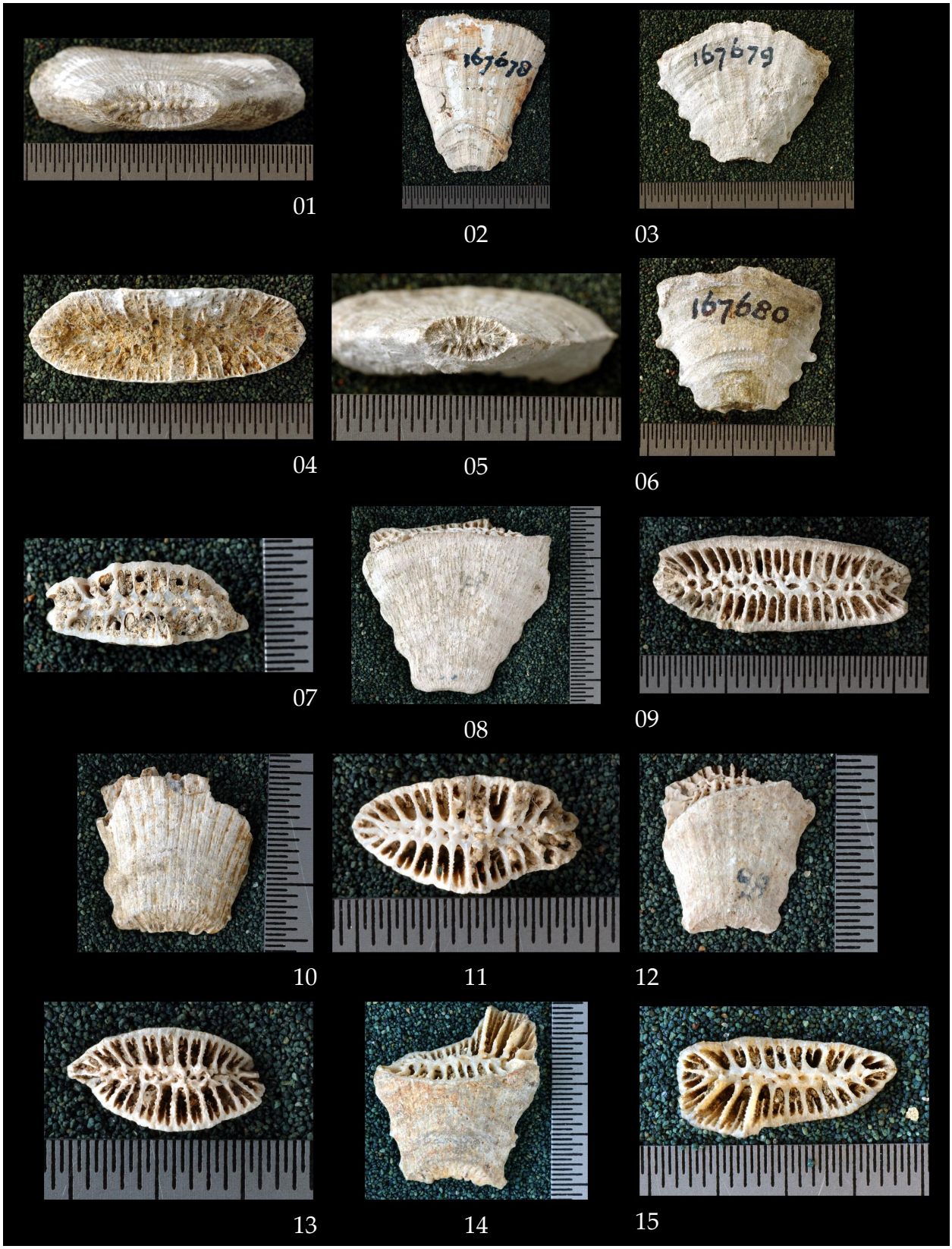
**Plate 50**



# Plate 51

Fig. 1. *Flabellum rubrum* in Umbgrove (1950) (RGM 167677, basal view)
Fig. 2. *Flabellum rubrum* in Umbgrove (1950) (RGM 167678, side view)
Fig. 3. *Flabellum rubrum* in Umbgrove (1950) (RGM 167679, side view)
Fig. 4. *Flabellum rubrum* in Umbgrove (1950) (RGM 167679, top view)
Fig. 5. *Flabellum rubrum* in Umbgrove (1950) (RGM 167679, basal view)
Fig. 6. *Flabellum rubrum* in Umbgrove (1950) (RGM 167680, side view)
Fig. 7. *Flabellum rubrum* in Umbgrove (1950) (RGM 167681, top view)
Fig. 8. *Flabellum variabile forma alta* (syntype) in Gerth (1921c) (RGM 525262, side view)
Fig. 9. *Flabellum variabile forma alta* (syntype) in Gerth (1921c) (RGM 525262, top view)
Fig. 10. *Flabellum variabile forma alta* (syntype) in Gerth (1921c) (RGM 525263, side view)
Fig. 11. *Flabellum variabile forma alta* (syntype) in Gerth (1921c) (RGM 525263, top view)
Fig. 12. *Flabellum variabile forma alta* (syntype) in Gerth (1921c) (RGM 525261, side view)
Fig. 13. *Flabellum variabile forma alta* (syntype) in Gerth (1921c) (RGM 525261, top view)
Fig. 14. *Flabellum variabile forma alta* (syntype) in Gerth (1921c) (RGM 3799, side view)
Fig. 15. *Flabellum variabile forma alta* (syntype) in Gerth (1921c) (RGM 3799, top view)

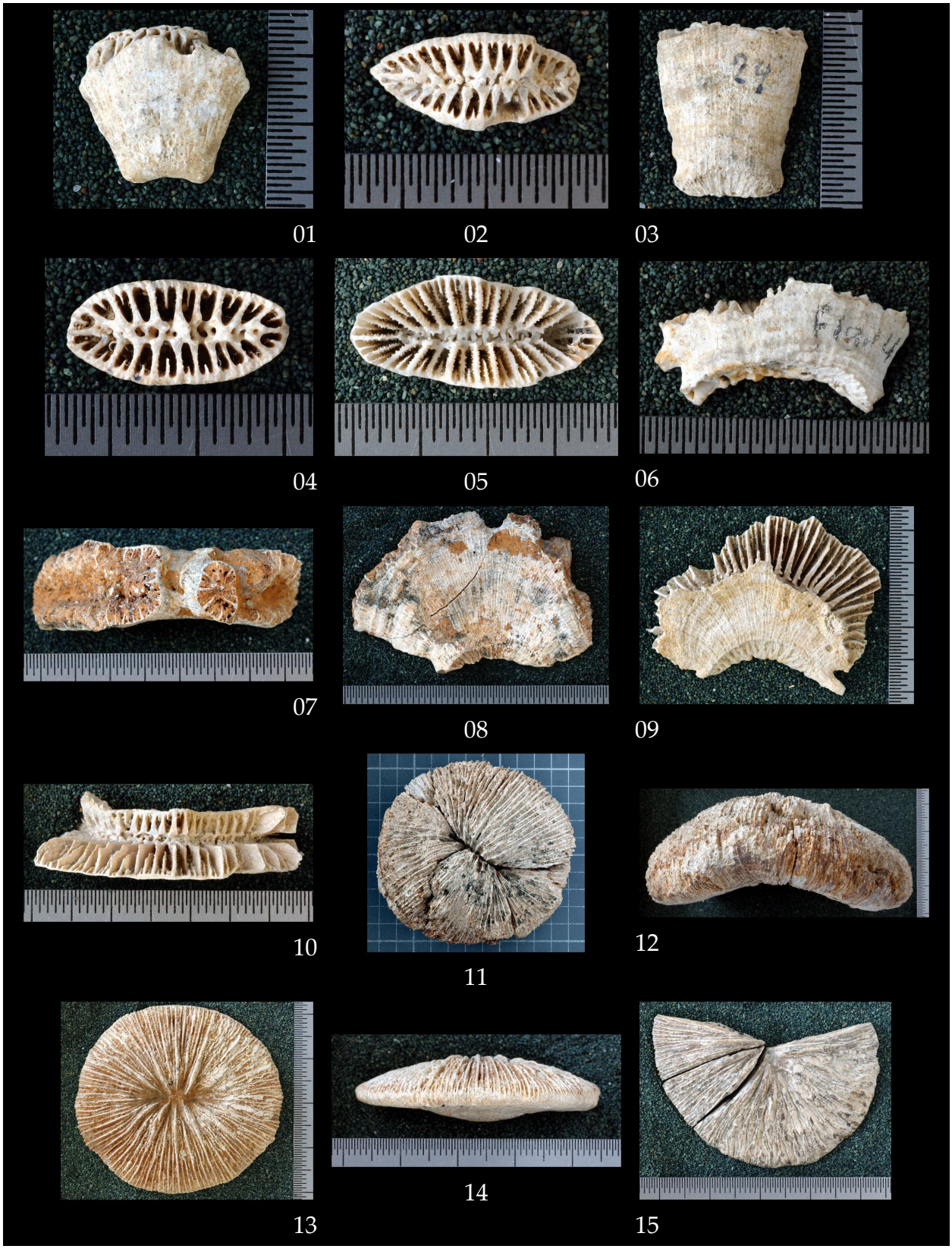
**Plate 51**



# Plate 52

Fig. 1. *Flabellum variabile forma alta* (syntype) in Gerth (1921c) (RGM 525258, side view)
Fig. 2. *Flabellum variabile forma alta* (syntype) in Gerth (1921c) (RGM 525258, top view)
Fig. 3. *Flabellum variabile forma alta* (syntype) in Gerth (1921c) (RGM 525259, side view)
Fig. 4. *Flabellum variabile forma alta* (syntype) in Gerth (1921c) (RGM 525259, top view)
Fig. 5. *Flabellum stokesi* in Gerth (1921c) (RGM 3795, top view)
Fig. 6. *Flabellum stokesi* in Gerth (1921c) (RGM 3795, side view)
Fig. 7. *Flabellum stokesi* in Umbgrove (1950) (RGM 77854, top view)
Fig. 8. *Flabellum stokesi* in Umbgrove (1950) (RGM 77854, side view)
Fig. 9. *Flabellum variabile* in Gerth (1921c) (RGM 3796, side view)
Fig. 10. *Flabellum variabile* in Gerth (1921c) (RGM 3796, top view)
Fig. 11. *Fungia actinodiscus* (holotype) in Umbgrove (1950) (RGM 77987, top view)
Fig. 12. *Fungia actinodiscus* (holotype) in Umbgrove (1950) (RGM 77987, side view)
Fig. 13. *Fungia borneensis* in Gerth (1925), syntype in Gerth (1923) (RGM 43122, top view)
Fig. 14. *Fungia borneensis* in Gerth (1925), syntype in Gerth (1923) (RGM 43122, side view)
Fig. 15. *Fungia borneensis* in Gerth (1925), syntype in Gerth (1923) (RGM 167801, top view)

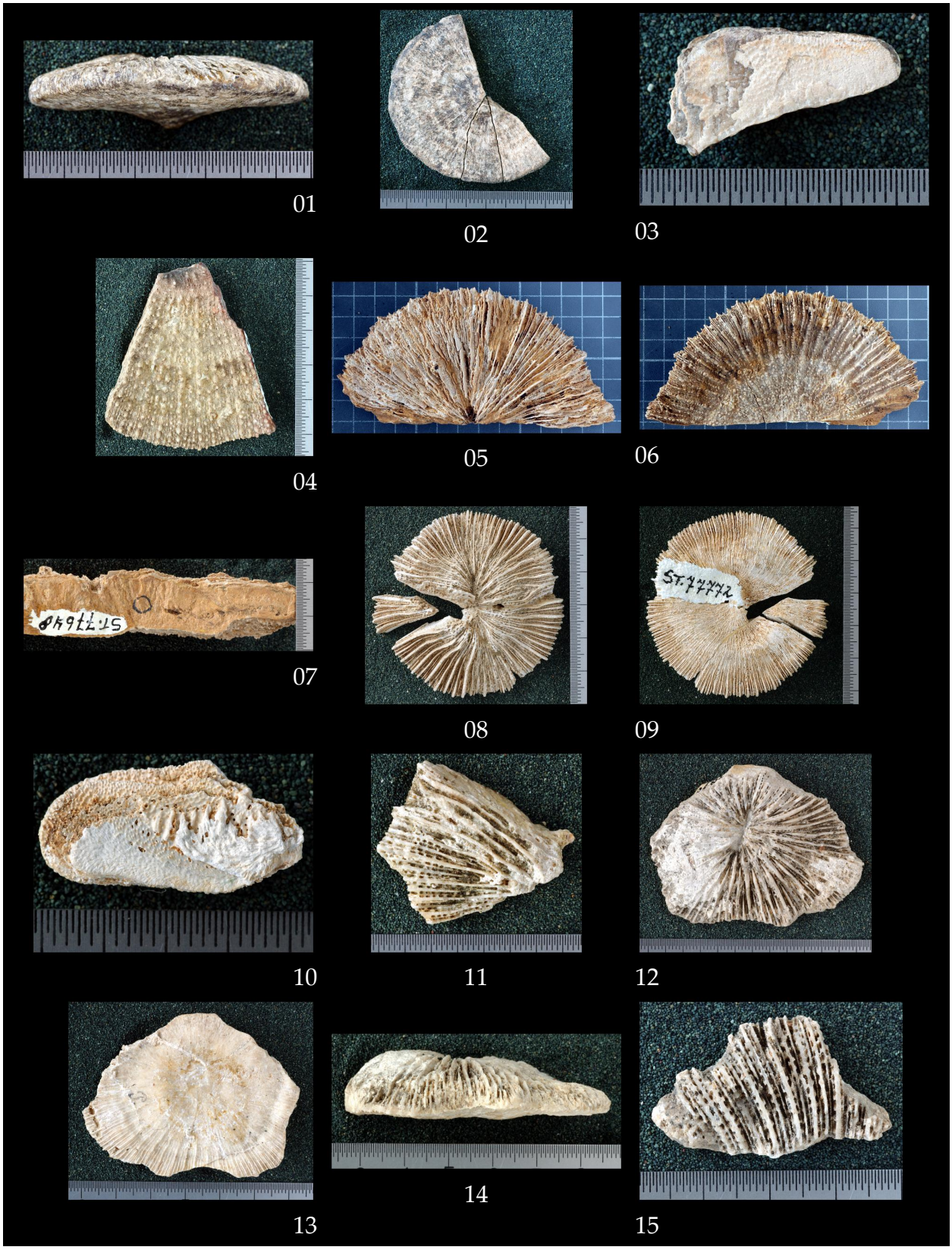
**Plate 52**



# Plate 53

Fig. 1. *Fungia borneensis* in Gerth (1925), syntype in Gerth (1923) (RGM 167801, side view)
Fig. 2. *Fungia borneensis* in Gerth (1925), syntype in Gerth (1923) (RGM 167801, basal view)
Fig. 3. *Fungia borneensis* in Gerth (1925), syntype in Gerth (1923) (RGM 167801, radial section)
Fig. 4. *Fungia concinna* in Umbgrove (1946a) (RGM 77654, basal view)
Fig. 5. *Fungia concinna* in Umbgrove (1946a) (RGM 77648, top view)
Fig. 6. *Fungia concinna* in Umbgrove (1946a) (RGM 77648, basal view)
Fig. 7. *Fungia concinna* in Umbgrove (1946a) (RGM 77648, radial section)
Fig. 8. *Fungia costulata* in Umbgrove (1946b) (RGM 77772, top view)
Fig. 9. *Fungia costulata* in Umbgrove (1946b) (RGM 77772, basal view)
Fig. 10. *Fungia costulata* in Umbgrove (1946b) (RGM 77772, radial section)
Fig. 11. *Fungia decipiens* (syntype) in Martin (1880a) (RGM 3884, top view)
Fig. 12. *Fungia decipiens* (syntype) in Martin (1880a) (RGM 3878, top view)
Fig. 13. *Fungia decipiens* (syntype) in Martin (1880a) (RGM 3878, basal view)
Fig. 14. *Fungia decipiens* (syntype) in Martin (1880a) (RGM 3878, side view)
Fig. 15. *Fungia decipiens* (syntype) in Martin (1880a) (RGM 167552, top view)

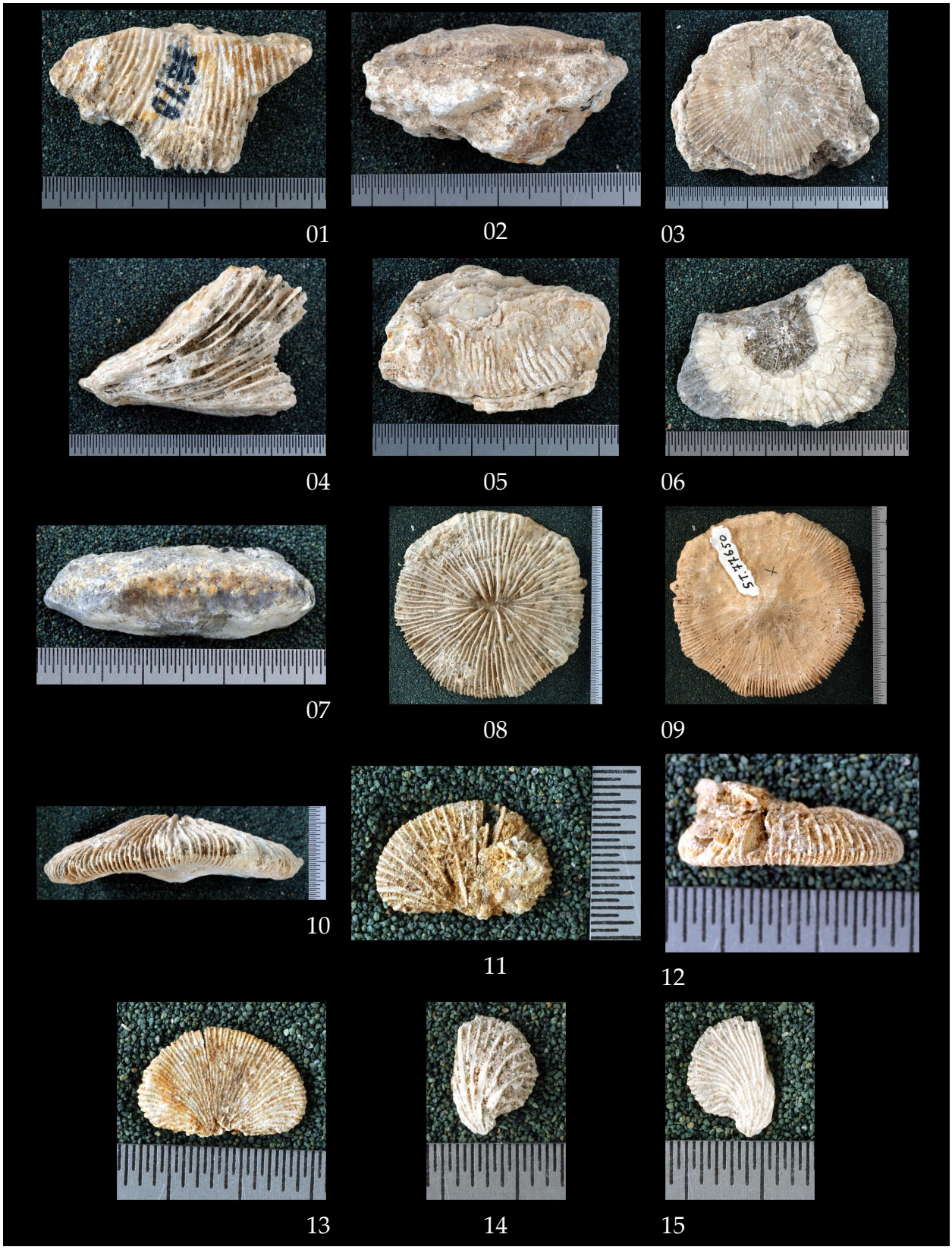
**Plate 53**



# Plate 54

Fig. 1. *Fungia decipiens* (syntype) in Martin (1880a) (RGM 167552, basal view)
Fig. 2. *Fungia decipiens* (syntype) in Martin (1880a) (RGM 167553, side view)
Fig. 3. *Fungia decipiens* (syntype) in Martin (1880a) (RGM 167553, basal view)
Fig. 4. *Fungia decipiens* (syntype) in Martin (1880a) (RGM 167554, top view)
Fig. 5. *Fungia decipiens* (syntype) in Martin (1880a) (RGM 167554, radial section)
Fig. 6. *Fungia decipiens* (syntype) in Martin (1880a) (RGM 167555, basal view)
Fig. 7. *Fungia decipiens* (syntype) in Martin (1880a) (RGM 167555, tangential section)
Fig. 8. *Fungia distorta* in Umbgrove (1946a) (RGM 77650, top view)
Fig. 9. *Fungia distorta* in Umbgrove (1946a) (RGM 77650, basal view)
Fig. 10. *Fungia distorta* in Umbgrove (1946a) (RGM 77650, side view)
Fig. 11. *Fungia fragilis forma hemispherica* (syntype) in Gerth (1921c) (RGM 525299, top view)
Fig. 12. *Fungia fragilis forma hemispherica* (syntype) in Gerth (1921c) (RGM 525299, side view)
Fig. 13. *Fungia fragilis forma hemispherica* (syntype) in Gerth (1921c) (RGM 525299, basal view)
Fig. 14. *Fungia fragilis forma hemispherica* (syntype) in Gerth (1921c) (RGM 525300, top view)
Fig. 15. *Fungia fragilis forma hemispherica* (syntype) in Gerth (1921c) (RGM 525300, basal view)

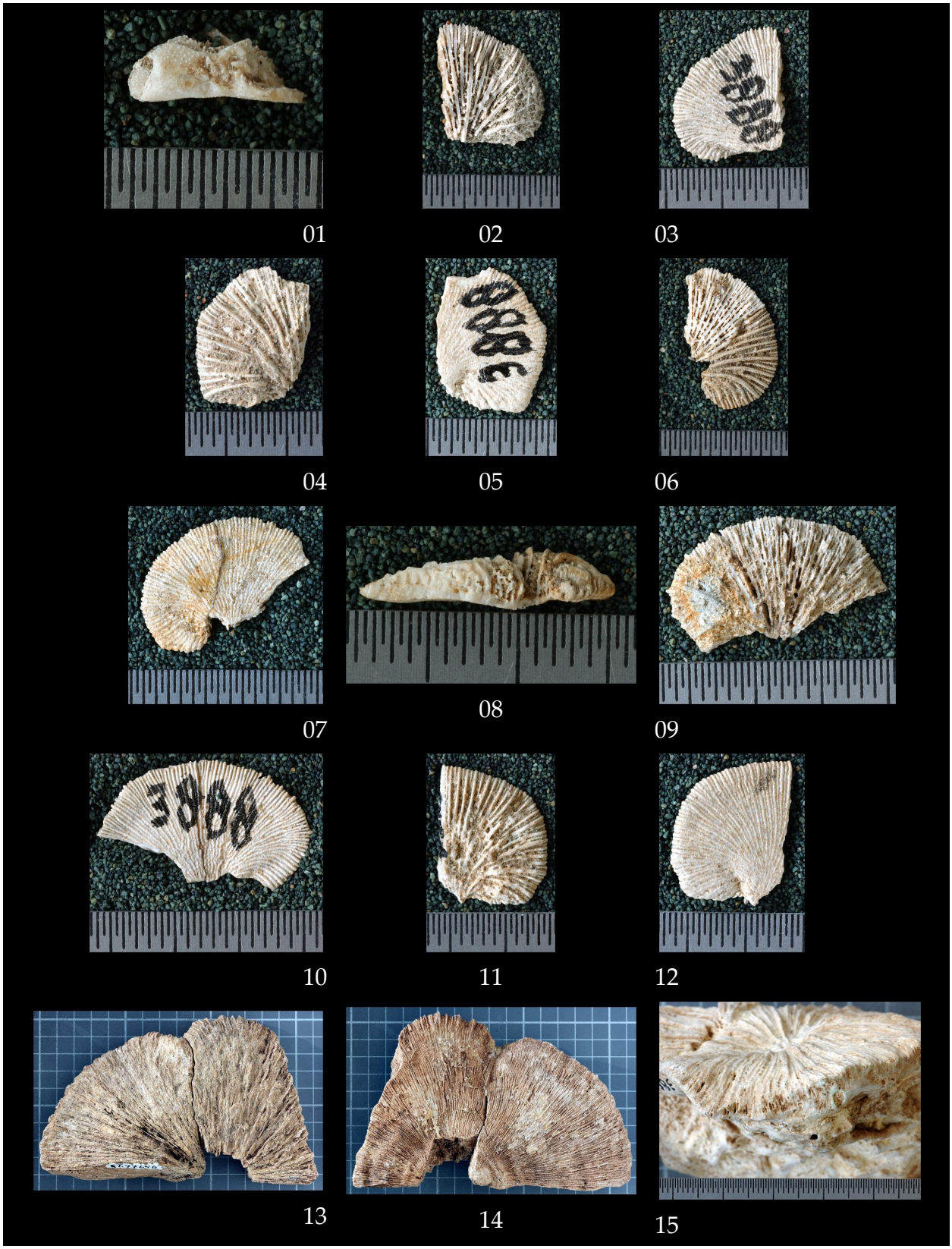
**Plate 54**



# Plate 55

Fig. 1. *Fungia fragilis forma hemispherica* (syntype) in Gerth (1921c) (RGM 525300, radial section)
Fig. 2. *Fungia fragilis forma hemispherica* (syntype) in Gerth (1921c) (RGM 525301, top view)
Fig. 3. *Fungia fragilis forma hemispherica* (syntype) in Gerth (1921c) (RGM 525301, basal view)
Fig. 4. *Fungia fragilis forma hemispherica* (syntype) in Gerth (1921c) (RGM 525302, top view)
Fig. 5. *Fungia fragilis forma hemispherica* (syntype) in Gerth (1921c) (RGM 525302, basal view)
Fig. 6. *Fungia fragilis forma hemispherica* (syntype) in Gerth (1921c) (RGM 525303, top view)
Fig. 7. *Fungia fragilis forma hemispherica* (syntype) in Gerth (1921c) (RGM 525303, basal view)
Fig. 8. *Fungia fragilis forma hemispherica* (syntype) in Gerth (1921c) (RGM 525303, radial section)
Fig. 9. *Fungia fragilis forma hemispherica* (syntype) in Gerth (1921c) (RGM 525304, top view)
Fig. 10. *Fungia fragilis forma hemispherica* (syntype) in Gerth (1921c) (RGM 525304, basal view)
Fig. 11. *Fungia fragilis forma hemispherica* (syntype) in Gerth (1921c) (RGM 525305, top view)
Fig. 12. *Fungia fragilis forma hemispherica* (syntype) in Gerth (1921c) (RGM 525305, basal view)
Fig. 13. *Fungia granulicostata* (holotype) in Umbgrove (1946a) (RGM 77646, top view)
Fig. 14. *Fungia granulicostata* (holotype) in Umbgrove (1946a) (RGM 77646, basal view)
Fig. 15. *Fungia inaequicostata* (syntype) in Gerth (1925) (RGM 3889, detail)

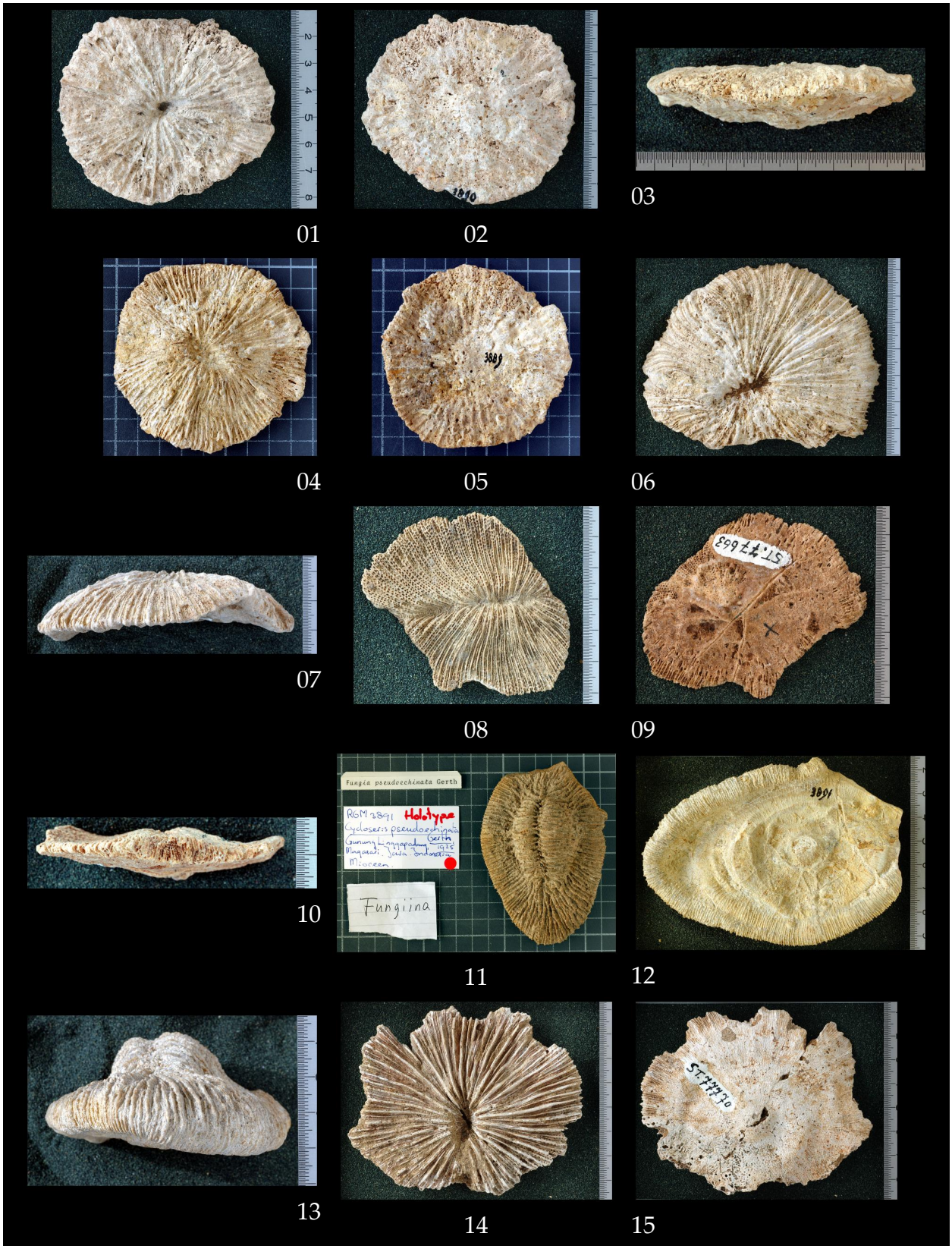
**Plate 55**



# Plate 56

Fig. 1. *Fungia inaequicostata* (syntype) in Gerth (1925) (RGM 3890, top view)
Fig. 2. *Fungia inaequicostata* (syntype) in Gerth (1925) (RGM 3890, basal view)
Fig. 3. *Fungia inaequicostata* (syntype) in Gerth (1925) (RGM 3890, side view)
Fig. 4. *Fungia inaequicostata* (syntype) in Gerth (1925) (RGM 167556, top view)
Fig. 5. *Fungia inaequicostata* (syntype) in Gerth (1925) (RGM 167556, basal view)
Fig. 6. *Fungia inaequicostata* in Umbgrove (1946a) (RGM 77658, top view)
Fig. 7. *Fungia inaequicostata* in Umbgrove (1946a) (RGM 77658, side view)
Fig. 8. *Fungia praecursor* (holotype) in Umbgrove (1946a) (RGM 77663, top view)
Fig. 9. *Fungia praecursor* (holotype) in Umbgrove (1946a) (RGM 77663, basal view)
Fig. 10. *Fungia praecursor* (holotype) in Umbgrove (1946a) (RGM 77663, side view)
Fig. 11. *Fungia pseudoechinata* (holotype) in Gerth (1925) (RGM 3891, overview)
Fig. 12. *Fungia pseudoechinata* (holotype) in Gerth (1925) (RGM 3891, basal view)
Fig. 13. *Fungia pseudoechinata* (holotype) in Gerth (1925) (RGM 3891, side view)
Fig. 14. *Fungia sibogae* in Umbgrove (1946b) (RGM 77770, top view)
Fig. 15. *Fungia sibogae* in Umbgrove (1946b) (RGM 77770, basal view)

**Plate 56**


01
02
03
04
05
06
07
08
09
10
Fungia pseudoechinata Gerth
RGM 3891 Holotype
Cycloseris pseudoechinata
Fungina
11
12
13
14
15

# Plate 57

Fig. 1. *Fungia sibogae* in Umbgrove (1946b) (RGM 77770, side view)
Fig. 2. *Fungia somervillei* in Umbgrove (1946b) (RGM 77771, top view)
Fig. 3. *Fungia somervillei* in Umbgrove (1946b) (RGM 77771, basal view)
Fig. 4. *Fungia somervillei* in Umbgrove (1946b) (RGM 77771, side view)
Fig. 5. *Fungia subpaumotensis* (holotype) in Umbgrove (1946a) (RGM 77653, basal view)
Fig. 6. *Fungia subpaumotensis* (holotype) in Umbgrove (1946a) (RGM 77653, side view)
Fig. 7. *Fungophyllia aspera* (syntype) in Gerth (1923) (RGM 43106, top view)
Fig. 8. *Fungophyllia aspera* (syntype) in Gerth (1923) (RGM 43106, side view)
Fig. 9. *Fungophyllia aspera* (syntype) in Gerth (1923) (RGM 43108, transverse section)
Fig. 10. *Fungophyllia aspera* (syntype) in Gerth (1923) (RGM 17709, top view)
Fig. 11. *Fungophyllia aspera* in Umbgrove (1939) (RGM 35477a, top view)
Fig. 12. *Fungophyllia explanata* (syntype) in Gerth (1921c) (RGM 525264, side view)
Fig. 13. *Fungophyllia explanata* (syntype) in Gerth (1921c) (RGM 525264, top view)
Fig. 14. *Fungophyllia explanata* (syntype) in Gerth (1921c) (RGM 525264, detail)
Fig. 15. *Fungophyllia explanata* (syntype) in Gerth (1921c) (RGM 525265, side view)

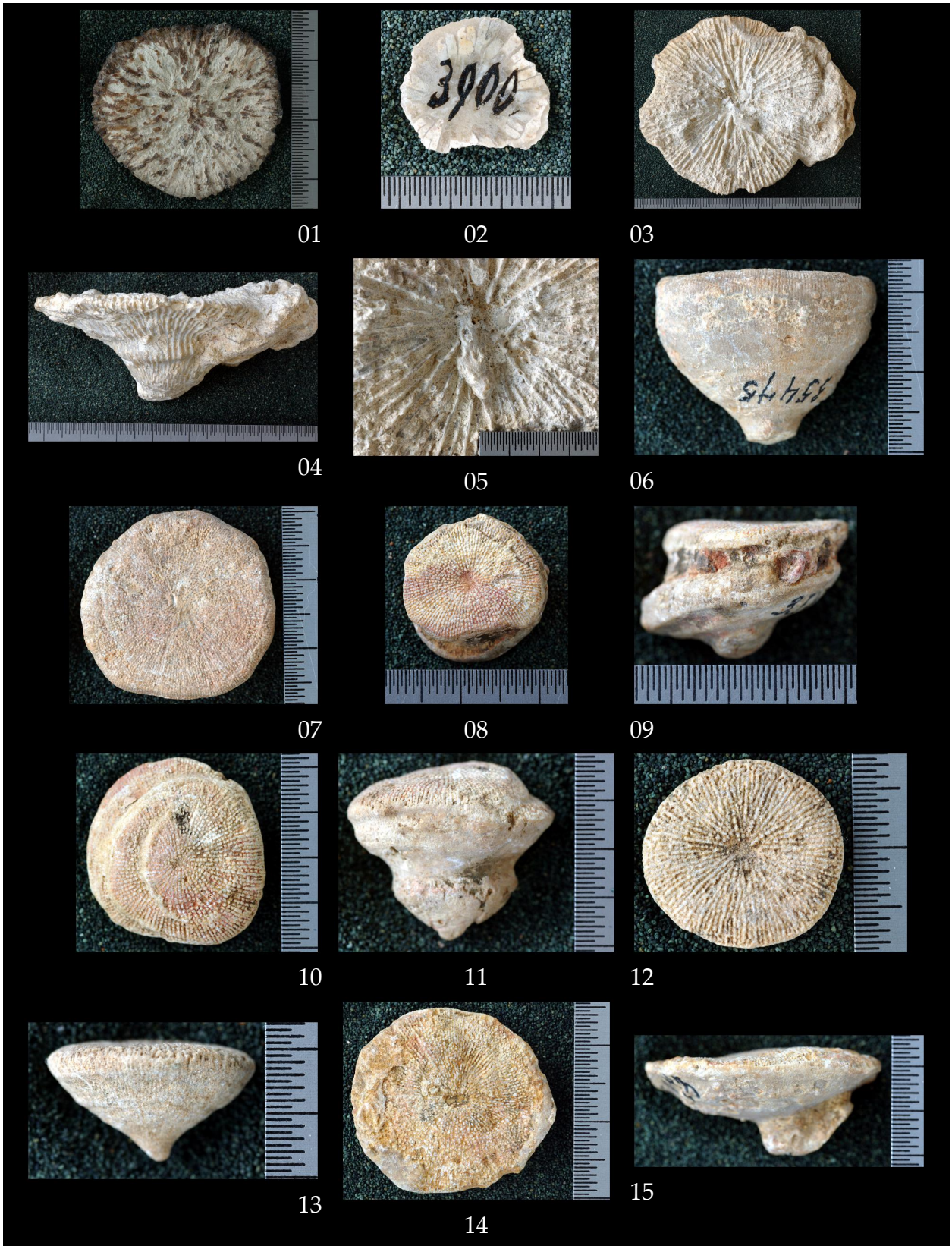
**Plate 57**



# Plate 58

Fig. 1. *Fungophyllia explanata* (syntype) in Gerth (1921c) (RGM 525265, top view)
Fig. 2. *Fungophyllia explanata* (syntype) in Gerth (1921c) (RGM 525265, detail)
Fig. 3. *Fungophyllia explanata* (syntype) in Gerth (1921c) (RGM 3899, top view)
Fig. 4. *Fungophyllia explanata* (syntype) in Gerth (1921c) (RGM 3899, side view)
Fig. 5. *Fungophyllia explanata* (syntype) in Gerth (1921c) (RGM 3899, detail)
Fig. 6. *Fungophyllia millepunctata* (syntype) in Umbgrove (1939) (RGM 35475, side view)
Fig. 7. *Fungophyllia millepunctata* (syntype) in Umbgrove (1939) (RGM 35475, top view)
Fig. 8. *Fungophyllia millepunctata* (syntype) in Umbgrove (1939) (RGM 167661, top view)
Fig. 9. *Fungophyllia millepunctata* (syntype) in Umbgrove (1939) (RGM 167661, side view)
Fig. 10. *Fungophyllia millepunctata* (syntype) in Umbgrove (1939) (RGM 167662, top view)
Fig. 11. *Fungophyllia millepunctata* (syntype) in Umbgrove (1939) (RGM 167662, side view)
Fig. 12. *Fungophyllia millepunctata* (syntype) in Umbgrove (1939) (RGM 525382, top view)
Fig. 13. *Fungophyllia millepunctata* (syntype) in Umbgrove (1939) (RGM 525382, side view)
Fig. 14. *Fungophyllia millepunctata* (syntype) in Umbgrove (1939) (RGM 525383, top view)
Fig. 15. *Fungophyllia millepunctata* (syntype) in Umbgrove (1939) (RGM 525383, side view)

**Plate 58**



# Plate 59

Fig. 1. *Fungophyllia millepunctata* (syntype) in Umbgrove (1939) (RGM 525384, top view)
Fig. 2. *Fungophyllia millepunctata* (syntype) in Umbgrove (1939) (RGM 525384, side view)
Fig. 3. *Fungophyllia millepunctata* (syntype) in Umbgrove (1939) (RGM 525384, top view)
Fig. 4. *Fungophyllia millepunctata* (syntype) in Umbgrove (1939) (RGM 35468, transverse section)
Fig. 5. *Fungophyllia monstrosa* (syntype) in Gerth (1923) (RGM 43114, top view)
Fig. 6. *Fungophyllia monstrosa* (syntype) in Gerth (1923) (RGM 43114, side view)
Fig. 7. *Fungophyllia monstrosa* (syntype) in Gerth (1923) (RGM 43114, basal view)
Fig. 8. *Fungophyllia monstrosa* (syntype) in Gerth (1923) (RGM 167783, top view)
Fig. 9. *Fungophyllia monstrosa* (syntype) in Gerth (1923) (RGM 167783, radial section)
Fig. 10. *Galaxea elegantissima* (syntype) in Umbgrove (1946a), Umbgrove (1945) (RGM 525338, basal view)
Fig. 11. *Galaxea elegantissima* (syntype) in Umbgrove (1946a), Umbgrove (1945) (RGM 525338, top view)
Fig. 12. *Galaxea elegantissima* (syntype) in Umbgrove (1946a), Umbgrove (1945) (RGM 525339, side view)
Fig. 13. *Galaxea elegantissima* (syntype) in Umbgrove (1946a), Umbgrove (1945) (RGM 525339, top view)
Fig. 14. *Galaxea elegantissima* (syntype) in Umbgrove (1946a), Umbgrove (1945) (RGM 77510, top view)
Fig. 15. *Galaxea elegantissima* (syntype) in Umbgrove (1946a), Umbgrove (1945) (RGM 77510, top view)

**Plate 59**



# Plate 60

Fig. 1. *Galaxea elegantissima* (syntype) in Umbgrove (1946a) (RGM 77606, top view)
Fig. 2. *Galaxea elegantissima* (syntype) in Umbgrove (1946a) (RGM 77605, side view)
Fig. 3. *Galaxea elegantissima* (syntype) in Umbgrove (1946a) (RGM 167665, top view)
Fig. 4. *Galaxea elegantissima* (syntype) in Umbgrove (1946a) (RGM 167665, top view)
Fig. 5. *Galaxea elegantissima* (syntype) in Umbgrove (1946a) (RGM 525340, top view)
Fig. 6. *Galaxea elegantissima* (syntype) in Umbgrove (1946a) (RGM 525340, top view)
Fig. 7. *Galaxea fascicularis* in Umbgrove (1946a) (RGM 77608, top view)
Fig. 8. *Galaxea fascicularis* in Umbgrove (1946a) (RGM 77608, basal view)
Fig. 9. *Galaxea junghuhni* (syntype) in Gerth (1921c) (RGM 3866, overview)
Fig. 10. *Galaxea junghuhni* (syntype) in Gerth (1921c) (RGM 3866, tangential section)
Fig. 11. *Galaxea junghuhni* (syntype) in Gerth (1921c) (RGM 3866, transverse section)
Fig. 12. *Galaxea junghuhni* (syntype) in Gerth (1921c) (RGM 525370, side view)
Fig. 13. *Galaxea junghuhni* (syntype) in Gerth (1921c) (RGM 525370, top view)
Fig. 14. *Galaxea junghuhni* (syntype) in Gerth (1921c) (RGM 525371, side view)
Fig. 15. *Galaxea junghuhni* (syntype) in Gerth (1921c) (RGM 525371, top view)

**Plate 60**



# Plate 61

Fig. 1. *Galaxea junghuhni* in Gerth (1923), syntype in Gerth (1921c) (RGM 3865, side view)
Fig. 2. *Galaxea junghuhni* in Gerth (1923), syntype in Gerth (1921c) (RGM 3865, top view)
Fig. 3. *Galaxea junghuhni* in Gerth (1923), syntype in Gerth (1921c) (RGM 167550, side view)
Fig. 4. *Galaxea junghuhni* in Gerth (1923), syntype in Gerth (1921c) (RGM 167550, transverse section)
Fig. 5. *Galaxea junghuhni* (syntype) in Gerth (1921c) (RGM 3867, side view)
Fig. 6. *Galaxea junghuhni* (syntype) in Gerth (1921c) (RGM 3867, top view)
Fig. 7. *Goniastrea curasavica* (holotype) in Gerth (1928) (RGM 45825, transverse section)
Fig. 8. *Goniastrea progoensis* (holotype) in Gerth (1921c) (RGM 3831, overview)
Fig. 9. *Goniastrea progoensis* (holotype) in Gerth (1921c) (RGM 3831, top view)
Fig. 10. *Goniastrea progoensis* (holotype) in Gerth (1921c) (RGM 3831, tangential section)
Fig. 11. *Goniastrea simplicitexta* in Umbgrove (1946a) (RGM 77589, top view)
Fig. 12. *Goniastrea simplicitexta* in Umbgrove (1946a) (RGM 77589, top view)
Fig. 13. *Goniopora astraeoides* (syntype) in Martin (1880a) (RGM 3967, basal view)
Fig. 14. *Goniopora astraeoides* (syntype) in Martin (1880a) (RGM 3967, side view)
Fig. 15. *Goniopora astraeoides* (syntype) in Martin (1880a) (RGM 167569, top view)

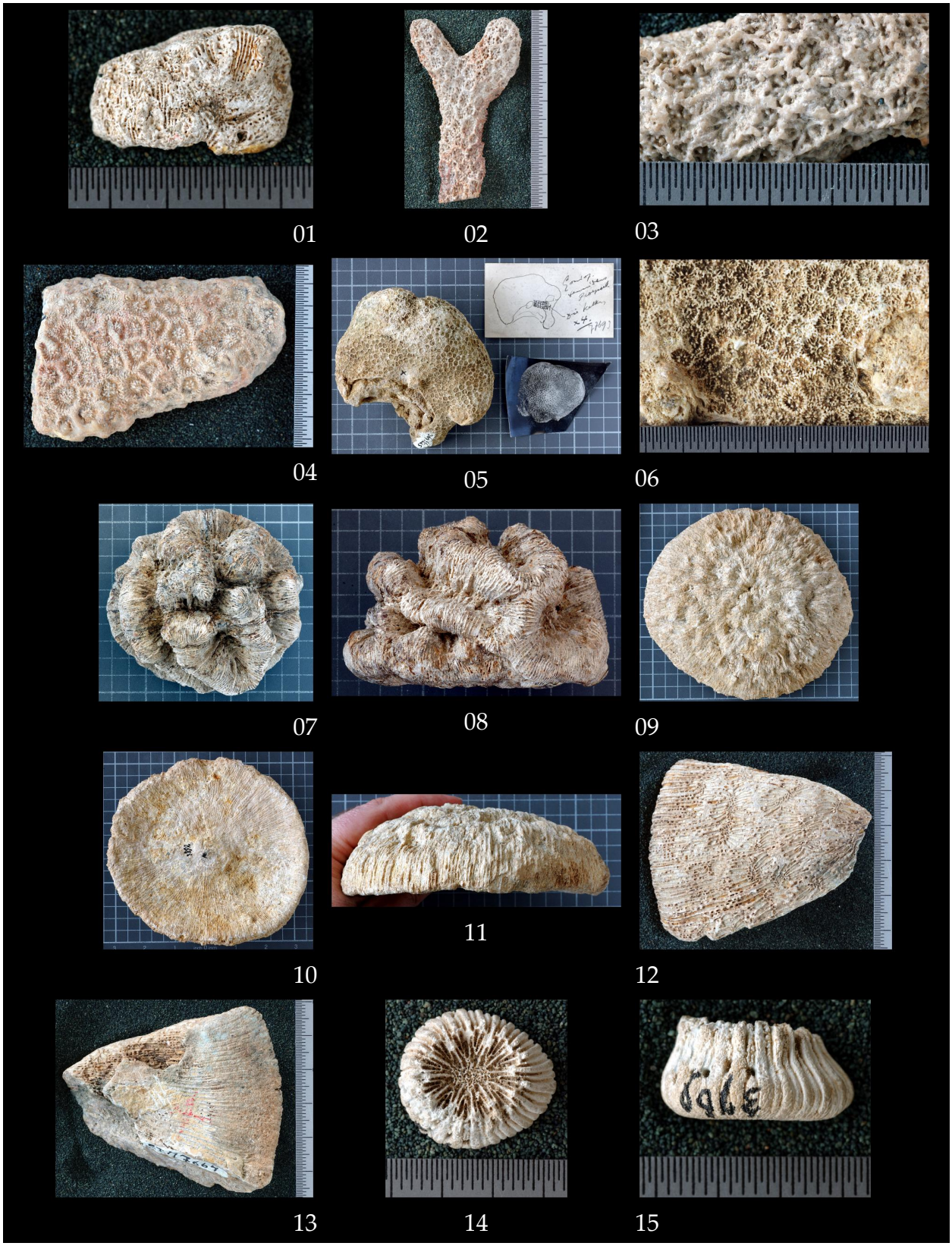
**Plate 61**



# Plate 62

Fig. 1. *Goniopora astraeoides* (syntype) in Martin (1880a) (RGM 167569, side view)
Fig. 2. *Goniopora planulata* in Gerth (1923) (RGM 17698, side view)
Fig. 3. *Goniopora planulata* in Gerth (1923) (RGM 17698, detail)
Fig. 4. *Goniopora planulata* in Umbgrove (1939) (RGM 35487, top view)
Fig. 5. *Goniopora tenuidens* in Umbgrove (1946a) (RGM 77693, overview)
Fig. 6. *Goniopora tenuidens* in Umbgrove (1946a) (RGM 77693, top view)
Fig. 7. *Gyrosmilia diadema* (holotype) in Umbgrove (1950) (RGM 77970, top view)
Fig. 8. *Gyrosmilia diadema* (holotype) in Umbgrove (1950) (RGM 77970, side view)
Fig. 9. *Halomitra vetusta* (holotype) in Gerth (1925) (RGM 3892, top view)
Fig. 10. *Halomitra vetusta* (holotype) in Gerth (1925) (RGM 3892, basal view)
Fig. 11. *Halomitra vetusta* (holotype) in Gerth (1925) (RGM 3892, side view)
Fig. 12. *Halomitra vetusta* in Umbgrove (1946a) (RGM 77664, top view)
Fig. 13. *Halomitra vetusta* in Umbgrove (1946a) (RGM 77664, basal view)
Fig. 14. *Heterocyathus aequicostatus* in Umbgrove (1950), *Heterocyathus rousseanus* in Gerth (1921c) (RGM 3769, top view)
Fig. 15. *Heterocyathus aequicostatus* in Umbgrove (1950), *Heterocyathus rousseanus* in Gerth (1921c) (RGM 3769, side view)

**Plate 62**



# Plate 63

Fig. 1. *Heterocyathus aequicostatus* in Umbgrove (1950), *Heterocyathus rousseanus* in Gerth (1921c) (RGM 3769, basal view)
Fig. 2. *Heterocyathus elberti* in Gerth (1921c) (RGM 3764, top view)
Fig. 3. *Heterocyathus elberti* in Gerth (1921c) (RGM 3764, side view)
Fig. 4. *Heterocyathus elberti* in Gerth (1921c) (RGM 3764, basal view)
Fig. 5. *Heterocyathus rembangensis* (syntype) in Gerth (1921c) (RGM 3772, top view)
Fig. 6. *Heterocyathus rembangensis* (syntype) in Gerth (1921c) (RGM 3772, side view)
Fig. 7. *Heterocyathus rembangensis* (syntype) in Gerth (1921c) (RGM 167526, top view)
Fig. 8. *Heterocyathus rembangensis* (syntype) in Gerth (1921c) (RGM 167526, side view)
Fig. 9. *Heterocyathus rembangensis* (syntype) in Gerth (1921c) (RGM 167526, basal view)
Fig. 10. *Heterocyathus sandalinus* (syntype) in Gerth (1921c) (RGM 3767, top view)
Fig. 11. *Heterocyathus sandalinus* (syntype) in Gerth (1921c) (RGM 3767, side view)
Fig. 12. *Heterocyathus sandalinus* (syntype) in Gerth (1921c) (RGM 3767, basal view)
Fig. 13. *Heterocyathus sandalinus* (syntype) in Gerth (1921c) (RGM 167523, top view)
Fig. 14. *Heterocyathus sandalinus* (syntype) in Gerth (1921c) (RGM 167523, side view)
Fig. 15. *Heterocyathus sandalinus* (syntype) in Gerth (1921c) (RGM 167523, basal view)

**Plate 63**



# Plate 64

Fig. 1. *Heteropsammia ovalis* in Gerth (1952), *Heteropsammia cochlea* in Umbgrove (1950), *Heteropsammia ovalis* in Gerth (1921c) (RGM 3953, side view)
Fig. 2. *Heteropsammia ovalis* in Gerth (1952), *Heteropsammia cochlea* in Umbgrove (1950), *Heteropsammia ovalis* in Gerth (1921c) (RGM 3953, top view)
Fig. 3. *Hydnophora astraeoides* (holotype) in Martin (1880a) (RGM 3848, basal view)
Fig. 4. *Hydnophora astraeoides* (holotype) in Martin (1880a) (RGM 3848, transverse section)
Fig. 5. *Hydnophora astraeoides* (holotype) in Martin (1880a) (RGM 3848, radial section)
Fig. 6. *Hydnophora crassa* (holotype) in Martin (1880a) (RGM 3850, top view)
Fig. 7. *Hydnophora crassa* (holotype) in Martin (1880a) (RGM 3850, tangential section)
Fig. 8. *Merulina ampliata* in Umbgrove (1946a),, *Coeloria arborescens* (syntype) in Martin (1880a) (RGM 3851, side view)
Fig. 9. *Coeloria arborescens* (syntype) in Martin (1880a) (RGM 167546, top view)
Fig. 10. *Coeloria arborescens* (syntype) in Martin (1880a) (RGM 167546, side view)
Fig. 11. *Coeloria arborescens* (syntype) in Martin (1880a) (RGM 167547, radial section)
Fig. 12. *Hydnophora grandis* in Umbgrove (1946a) (RGM 77583, top view)
Fig. 13. *Hydnophora solidior* in Gerth (1923) (RGM 43077, top view)
Fig. 14. *Hydnophora solidior* in Gerth (1923) (RGM 43077, top view)
Fig. 15. *Hydnophora solidior* in Umbgrove (1946a) (RGM 77625, top view, approximately the area figured in Umbgrove, 1946b pl. 78 fig. 5.)

**Plate 64**



# Plate 65

Fig. 1. *Hydnophora solidior* in Umbgrove (1946a) (RGM 77625, top view, approximately the area depicted in Umbgrove, 1946b pl. 78 fig. 4. The metal bar is ±4.45 mm above the tabel.)
Fig. 2. *Hydnophora tenella* in Umbgrove (1946a) (RGM 77623, top view)
Fig. 3. *Hydnophora tenella* in Umbgrove (1946a) (RGM 167667, top view)
Fig. 4. *Hydnophora sp.* in Umbgrove (1946a) (RGM 77624, top view)
Fig. 5. *Hydnophora sp.* in Umbgrove (1946a) (RGM 77624, tangential section)
Fig. 6. *Hydnophyllia applanata* (syntype) in Gerth (1923) (RGM 43075, top view)
Fig. 7. *Hydnophyllia applanata* (syntype) in Gerth (1923) (RGM 43075, basal view)
Fig. 8. *Hydnophyllia applanata* (syntype) in Gerth (1923) (RGM 43075, transverse section)
Fig. 9. *Hydnophyllia malayica* (syntype) in Gerth (1923) (RGM 43056, top view)
Fig. 10. *Hydnophyllia malayica* (syntype) in Gerth (1923) (RGM 43056, side view)
Fig. 11. *Hydnophyllia malayica* (syntype) in Gerth (1923) (RGM 43056, basal view)
Fig. 12. *Hydnophyllia malayica* (syntype) in Gerth (1923) (RGM 167788, top view)
Fig. 13. *Hydnophyllia malayica* (syntype) in Gerth (1923) (RGM 167788, side view)
Fig. 14. *Hydnophyllia malayica* (syntype) in Gerth (1923) (RGM 167788, basal view)
Fig. 15. *Indophyllia borneensis* (syntype) in Gerth (1923) (RGM 17699, top view)

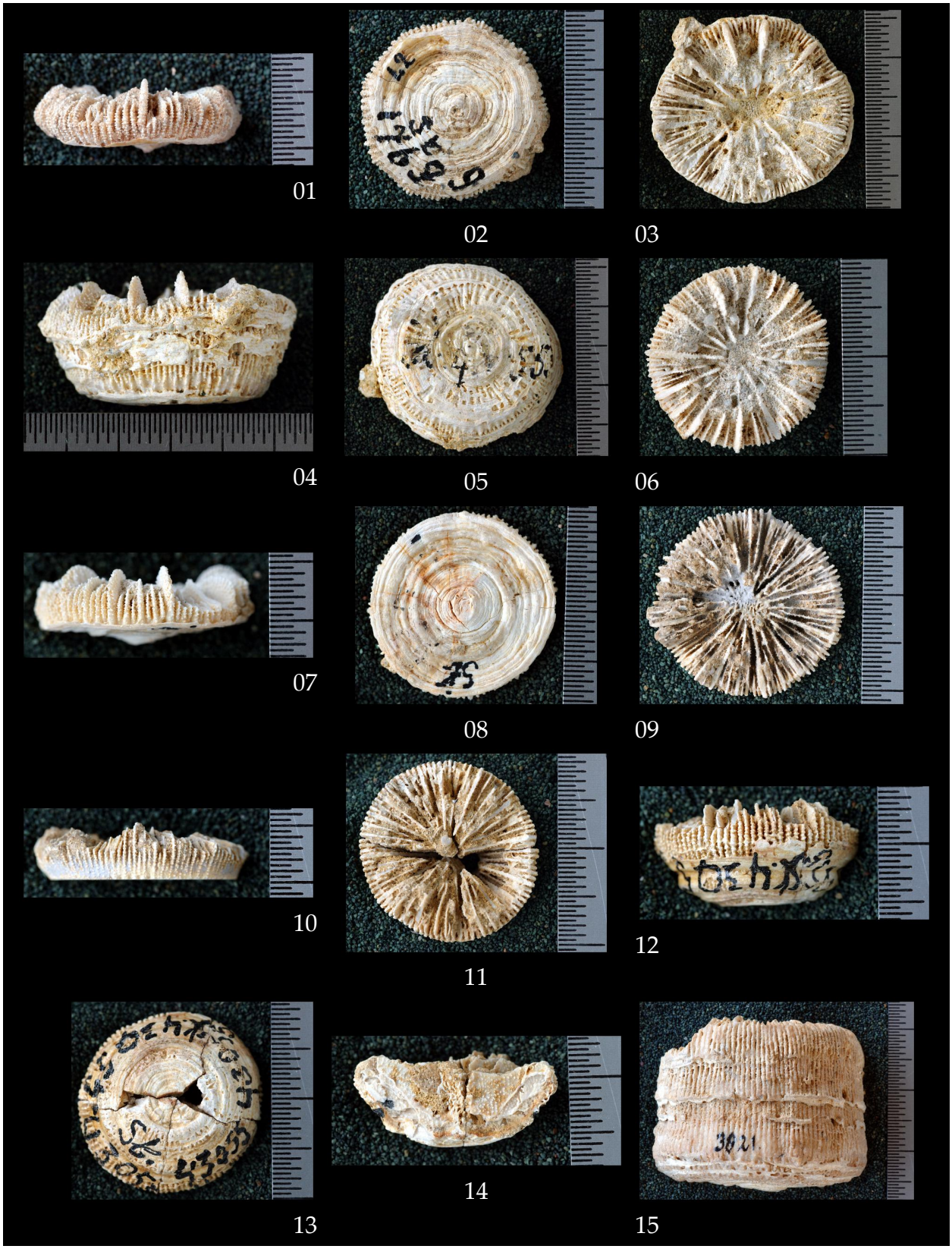
**Plate 65**



# Plate 66

Fig. 1. *Indophyllia borneensis* (syntype) in Gerth (1923) (RGM 17699, side view)
Fig. 2. *Indophyllia borneensis* (syntype) in Gerth (1923) (RGM 17699, basal view)
Fig. 3. *Indophyllia borneensis* (syntype) in Gerth (1923) (RGM 43055, top view)
Fig. 4. *Indophyllia borneensis* (syntype) in Gerth (1923) (RGM 43055, side view)
Fig. 5. *Indophyllia borneensis* (syntype) in Gerth (1923) (RGM 43055, basal view)
Fig. 6. *Indophyllia borneensis* (syntype) in Gerth (1923) (RGM 167785, top view)
Fig. 7. *Indophyllia borneensis* (syntype) in Gerth (1923) (RGM 167785, side view)
Fig. 8. *Indophyllia borneensis* (syntype) in Gerth (1923) (RGM 167785, basal view)
Fig. 9. *Indophyllia borneensis* (syntype) in Gerth (1923) (RGM 525389, top view)
Fig. 10. *Indophyllia borneensis* (syntype) in Gerth (1923) (RGM 525389, side view)
Fig. 11. *Indophyllia borneensis* (syntype) in Gerth (1923) (RGM 525390, top view)
Fig. 12. *Indophyllia borneensis* (syntype) in Gerth (1923) (RGM 525390, side view)
Fig. 13. *Indophyllia borneensis* (syntype) in Gerth (1923) (RGM 525390, basal view)
Fig. 14. *Indophyllia borneensis* (syntype) in Gerth (1923) (RGM 525390, radial section)
Fig. 15. *Indophyllia cylindrica* in Wells (1956), holotype in Gerth (1921c) (RGM 3821, side view)

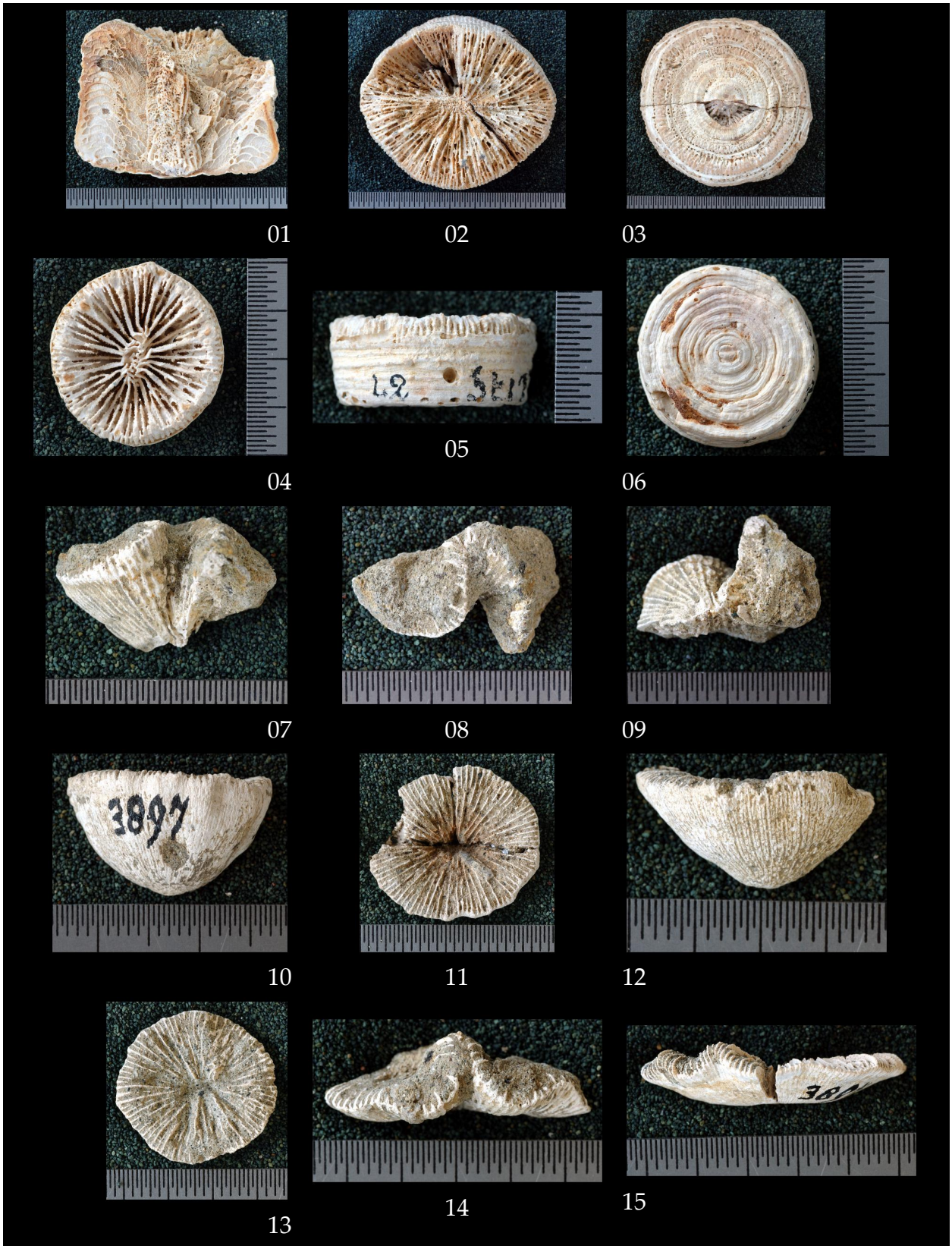
**Plate 66**



# Plate 67

Fig. 1. *Indophyllia cylindrica* in Wells (1956), holotype in Gerth (1921c) (RGM 3821, detail)
Fig. 2. *Indophyllia cylindrica* in Wells (1956), holotype in Gerth (1921c) (RGM 3821, top view)
Fig. 3. *Indophyllia cylindrica* in Wells (1956), holotype in Gerth (1921c) (RGM 3821, basal view)
Fig. 4. *Indophyllia cylindrica* in Gerth (1923) (RGM 17700, top view)
Fig. 5. *Indophyllia cylindrica* in Gerth (1923) (RGM 17700, side view)
Fig. 6. *Indophyllia cylindrica* in Gerth (1923) (RGM 17700, basal view)
Fig. 7. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525320, side view)
Fig. 8. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525320, top view)
Fig. 9. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525320, basal view)
Fig. 10. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525268, side view)
Fig. 11. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525268, top view)
Fig. 12. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525269, side view)
Fig. 13. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525269, top view)
Fig. 14. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525270, side view)
Fig. 15. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525271, side view)

**Plate 67**



# Plate 68

Fig. 1. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525271, top view)
Fig. 2. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525272, side view)
Fig. 3. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525272, detail)
Fig. 4. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525273, basal view)
Fig. 5. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525273, side view)
Fig. 6. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525273, top view)
Fig. 7. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525275, side view)
Fig. 8. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525275, basal view)
Fig. 9. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525276, side view)
Fig. 10. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525276, basal view)
Fig. 11. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525277, side view)
Fig. 12. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525277, basal view)
Fig. 13. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525281, side view)
Fig. 14. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525281, basal view)
Fig. 15. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525283, side view)

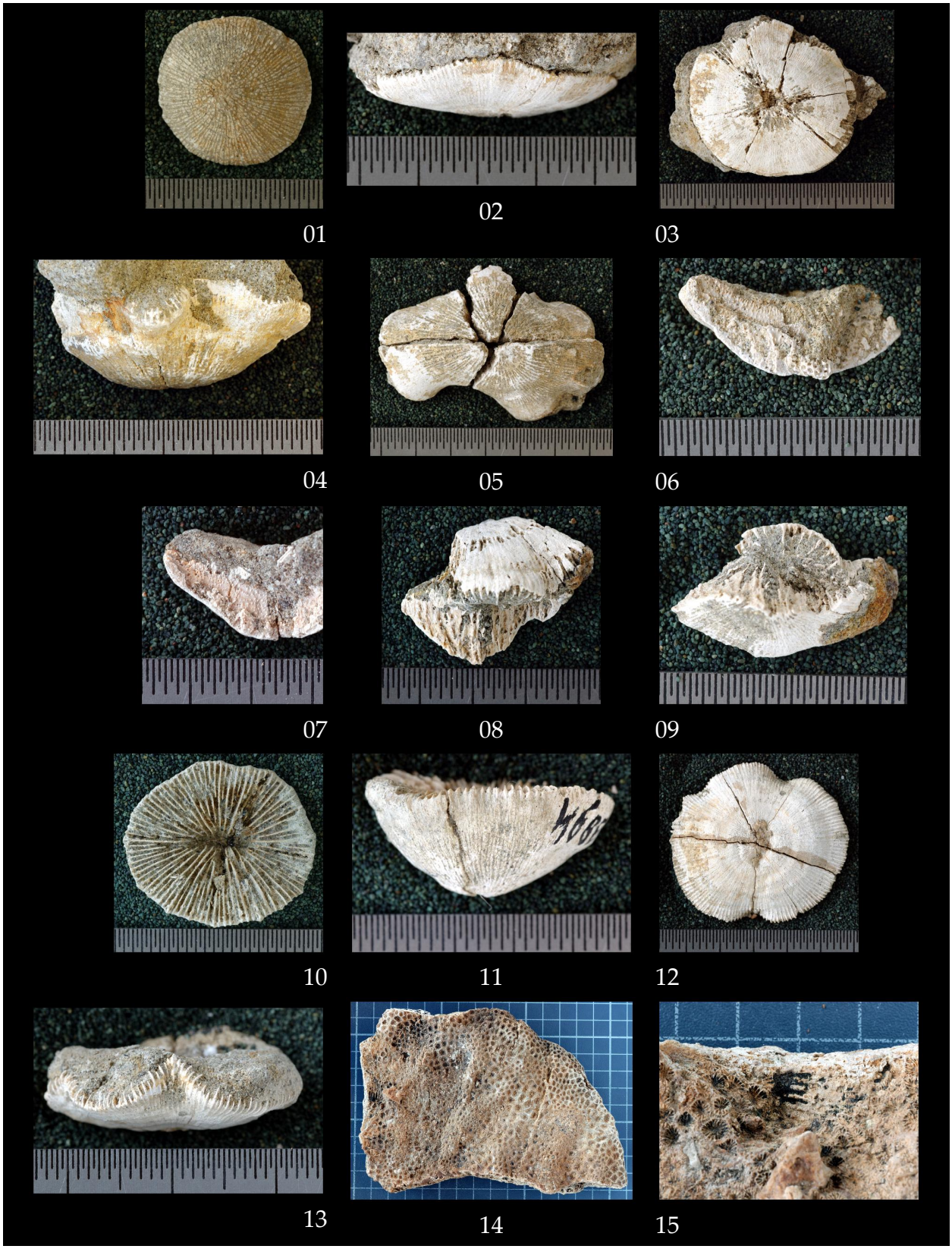
**Plate 68**



# Plate 69

Fig. 1. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525283, basal view)
Fig. 2. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525285, side view)
Fig. 3. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525285, basal view)
Fig. 4. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525286, side view)
Fig. 5. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525288, basal view)
Fig. 6. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525294, radial section)
Fig. 7. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525313, radial section)
Fig. 8. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525321, side view)
Fig. 9. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 525321, top view)
Fig. 10. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 3894, top view)
Fig. 11. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 3894, side view)
Fig. 12. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 167557, basal view)
Fig. 13. *Javanoseris sinuata* (syntype) in Gerth (1921c) (RGM 167557, side view)
Fig. 14. *Leptastrea purpurea* in Umbgrove (1946a) (RGM 77609, top view)
Fig. 15. *Leptastrea purpurea* in Umbgrove (1946a) (RGM 77609, top view)

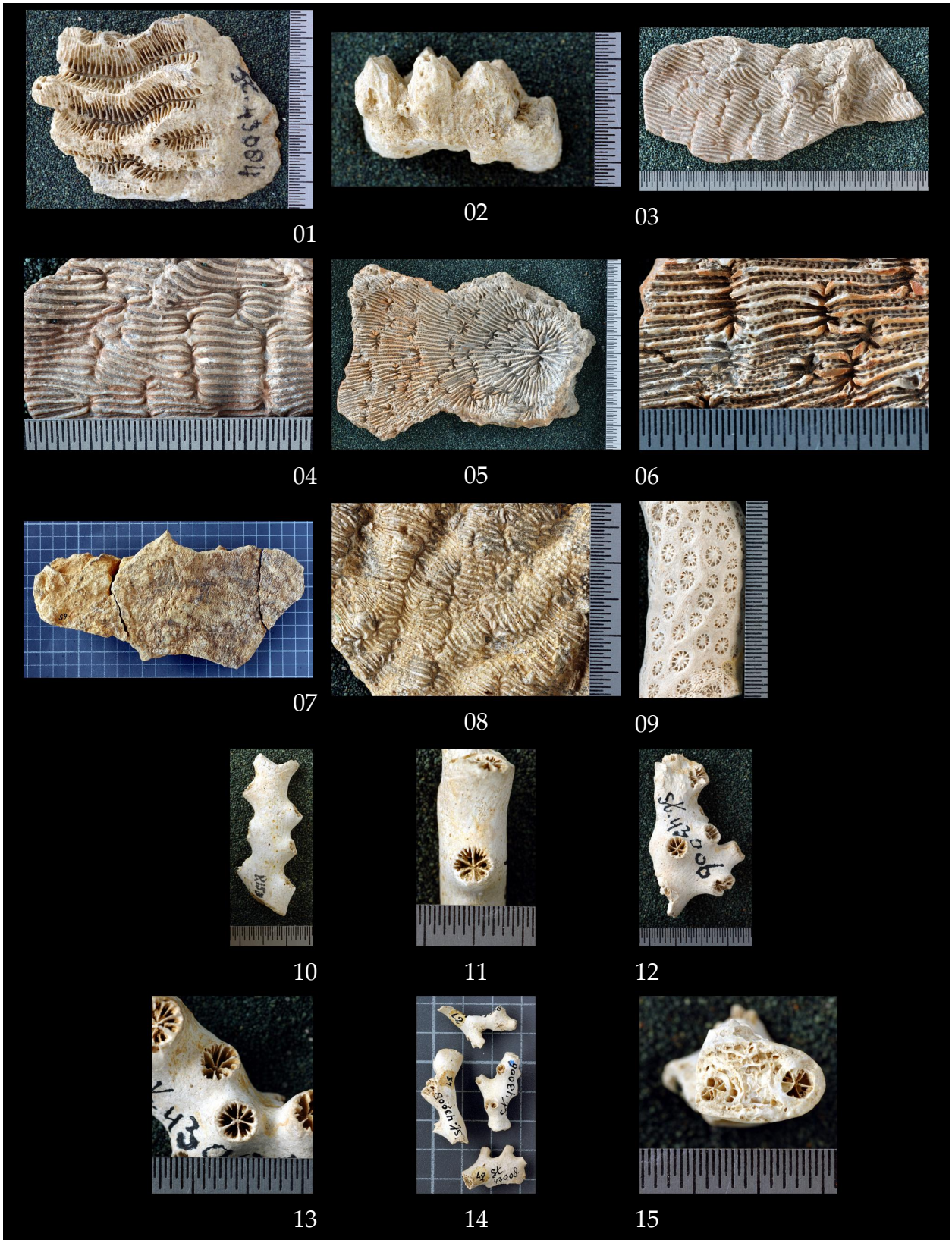
**Plate 69**



# Plate 70

Fig. 1. *Leptoria concentrica* in Gerth (1923) (RGM 43084, top view)
Fig. 2. *Leptoria concentrica* in Gerth (1923) (RGM 43084, side view)
Fig. 3. *Leptoseris alternans* (syntype) in Gerth (1923) (RGM 43128, top view)
Fig. 4. *Leptoseris alternans* (syntype) in Gerth (1923) (RGM 43128, top view)
Fig. 5. *Leptoseris floriformis* (holotype) in Gerth (1923) (RGM 43126, top view)
Fig. 6. *Leptoseris floriformis* (holotype) in Gerth (1923) (RGM 43126, top view)
Fig. 7. *Leptoseris sp.* in Gerth (1923) (RGM 43130, overview)
Fig. 8. *Leptoseris sp.* in Gerth (1923) (RGM 43130, top view)
Fig. 9. *Madracis myriaster* in Oosterbaan (1985), Gerth (1925) (RGM 17982, side view)
Fig. 10. *Amphelia alternans* (syntype) in Gerth (1923) (RGM 43006, side view)
Fig. 11. *Amphelia alternans* (syntype) in Gerth (1923) (RGM 43006, top view)
Fig. 12. *Amphelia alternans* (syntype) in Gerth (1923) (RGM 167797, side view)
Fig. 13. *Amphelia alternans* (syntype) in Gerth (1923) (RGM 167797, top view)
Fig. 14. *Amphelia alternans* (syntype) in Gerth (1923) (RGM 43008, overview)
Fig. 15. *Amphelia alternans* (syntype) in Gerth (1923) (RGM 43008, top view)

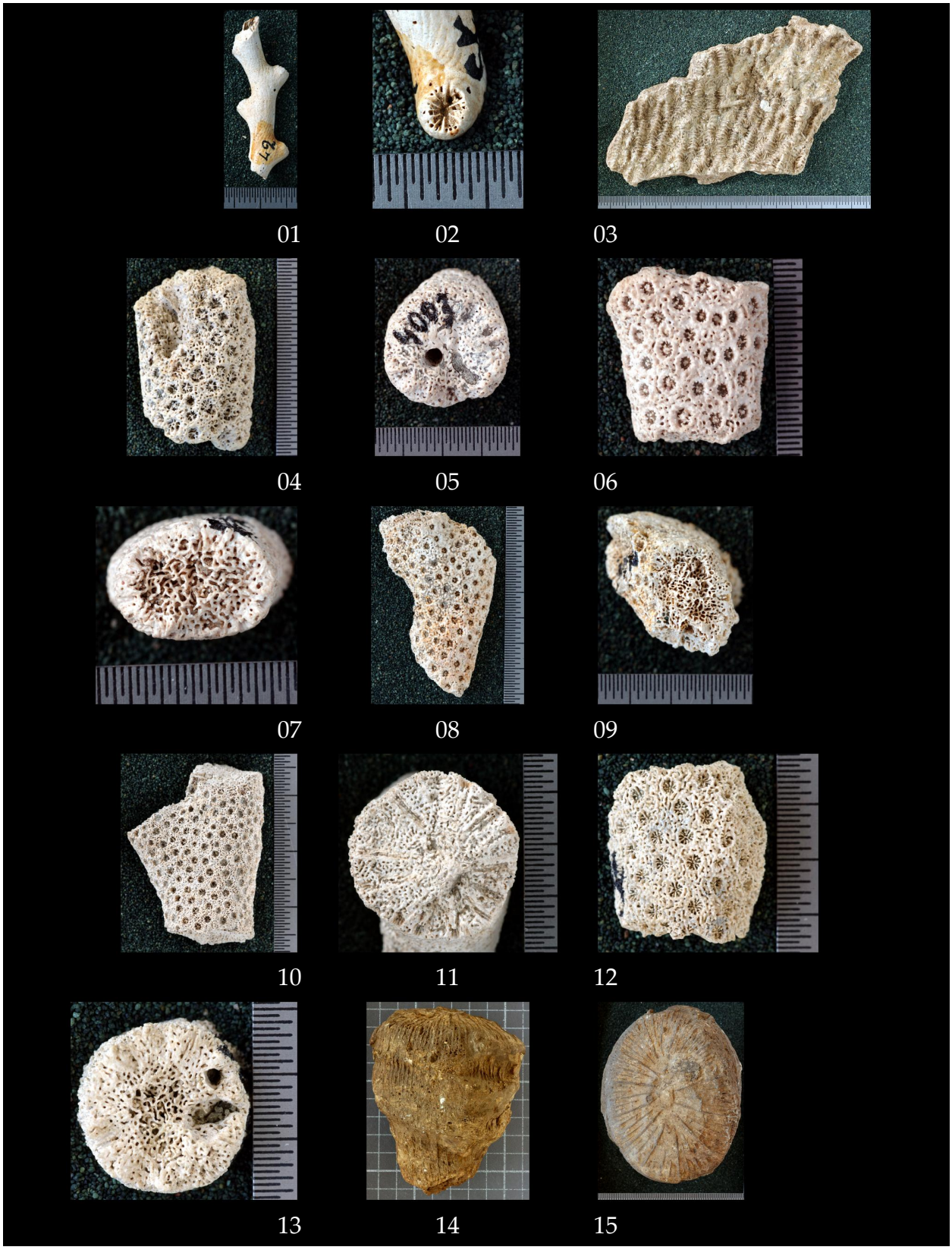
**Plate 70**



# Plate 71

Fig. 1. *Amphelia alternans* (syntype) in Gerth (1923) (RGM 167798, side view)
Fig. 2. *Amphelia alternans* (syntype) in Gerth (1923) (RGM 167798, top view)
Fig. 3. *Merulina ampliata* in Umbgrove (1946a) (RGM 77626, top view)
Fig. 4. *Montipora dubiosa* (syntype) in Gerth (1921c) (RGM 525329, side view)
Fig. 5. *Montipora dubiosa* (syntype) in Gerth (1921c) (RGM 525329, transverse section)
Fig. 6. *Montipora dubiosa* (syntype) in Gerth (1921c) (RGM 525330, side view)
Fig. 7. *Montipora dubiosa* (syntype) in Gerth (1921c) (RGM 525330, transverse section)
Fig. 8. *Montipora dubiosa* (syntype) in Gerth (1921c) (RGM 4002, side view)
Fig. 9. *Montipora dubiosa* (syntype) in Gerth (1921c) (RGM 4002, transverse section)
Fig. 10. *Montipora dubiosa* (syntype) in Gerth (1921c) (RGM 4001, side view)
Fig. 11. *Montipora dubiosa* (syntype) in Gerth (1921c) (RGM 4001, transverse section)
Fig. 12. *Montipora dubiosa* (syntype) in Gerth (1921c) (RGM 4004, side view)
Fig. 13. *Montipora dubiosa* (syntype) in Gerth (1921c) (RGM 4004, transverse section)
Fig. 14. *Montlivaltia gigas* (syntype) in Vinassa de Regny (1915) (THDKA 12832, side view)
Fig. 15. *Montlivaltia gigas* (syntype) in Vinassa de Regny (1915) (THDKA 12832, top view)

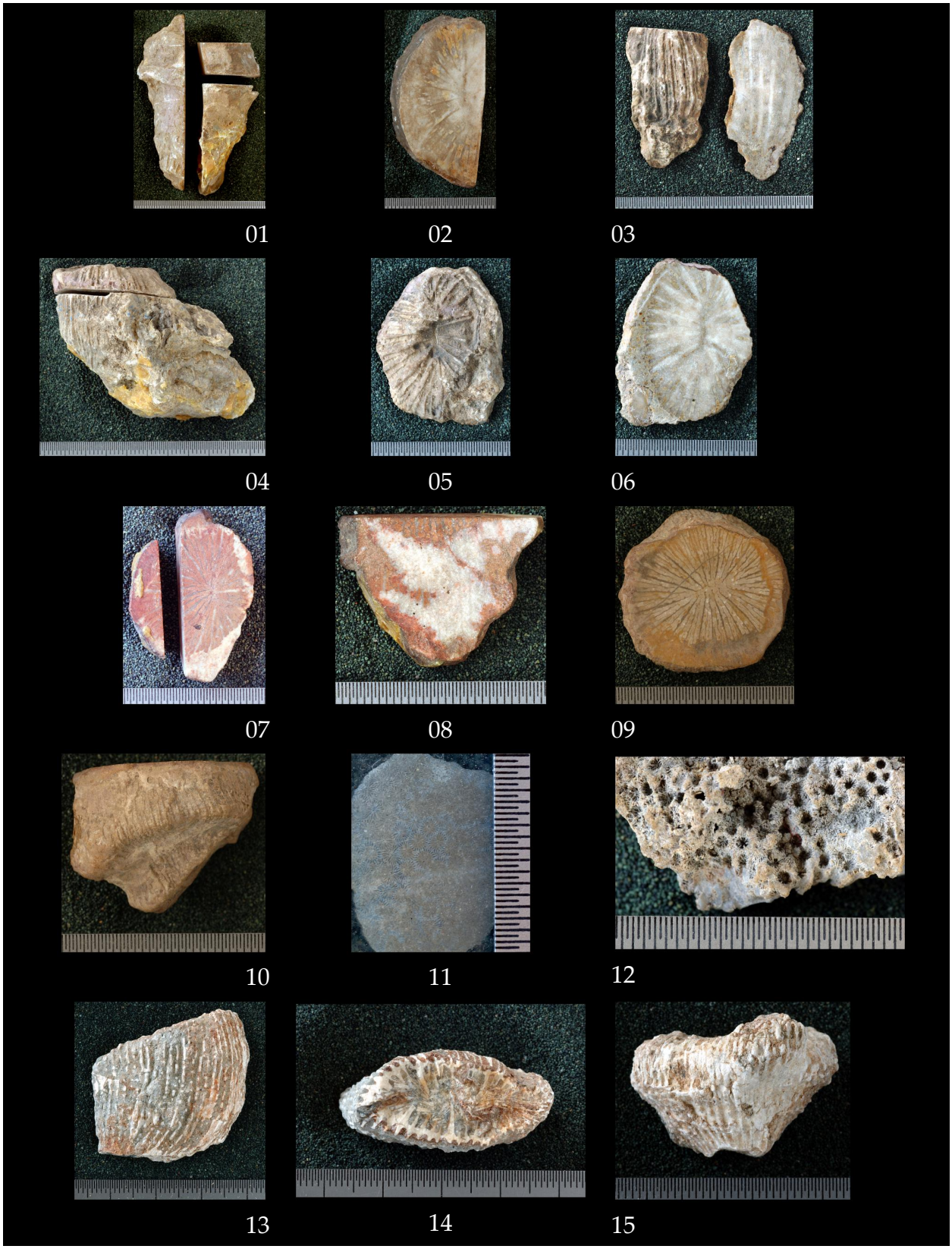
**Plate 71**



# Plate 72

Fig. 1. *Montlivaltia gigas* (syntype) in Vinassa de Regny (1915) (THDKA 12833, side view)
Fig. 2. *Montlivaltia gigas* (syntype) in Vinassa de Regny (1915) (THDKA 12833, transverse section)
Fig. 3. *Montlivaltia stylophylloides* (syntype) in Vinassa de Regny (1915) (RGM 529384, side view)
Fig. 4. *Montlivaltia stylophylloides* (syntype) in Vinassa de Regny (1915) (THDKA 12835, side view)
Fig. 5. *Montlivaltia stylophylloides* (syntype) in Vinassa de Regny (1915) (THDKA 12835, top view)
Fig. 6. *Montlivaltia stylophylloides* (syntype) in Vinassa de Regny (1915) (THDKA 12835, transverse section)
Fig. 7. *Montlivaltia timorica* (syntype) in Vinassa de Regny (1915) (RGM 529385, transverse section)
Fig. 8. *Montlivaltia timorica* (syntype) in Vinassa de Regny (1915) (RGM 529385, tangential section)
Fig. 9. *Montlivaltia timorica* (syntype) in Vinassa de Regny (1915) (THDKA 12834, transverse section)
Fig. 10. *Montlivaltia timorica* (syntype) in Vinassa de Regny (1915) (THDKA 12834, side view)
Fig. 11. *Multicolumnastraea parvula* (syntype) in Gerth (1928) (RGM 45838, transverse section)
Fig. 12. *Multicolumnastraea parvula* (syntype) in Gerth (1928) (RGM 45838, top view)
Fig. 13. *Lithophyllia spinosa* (syntype) in Gerth (1921c) (RGM 525238, side view)
Fig. 14. *Lithophyllia spinosa* (syntype) in Gerth (1921c) (RGM 525238, top view)
Fig. 15. *Lithophyllia spinosa* (syntype) in Gerth (1921c) (RGM 525239, side view)

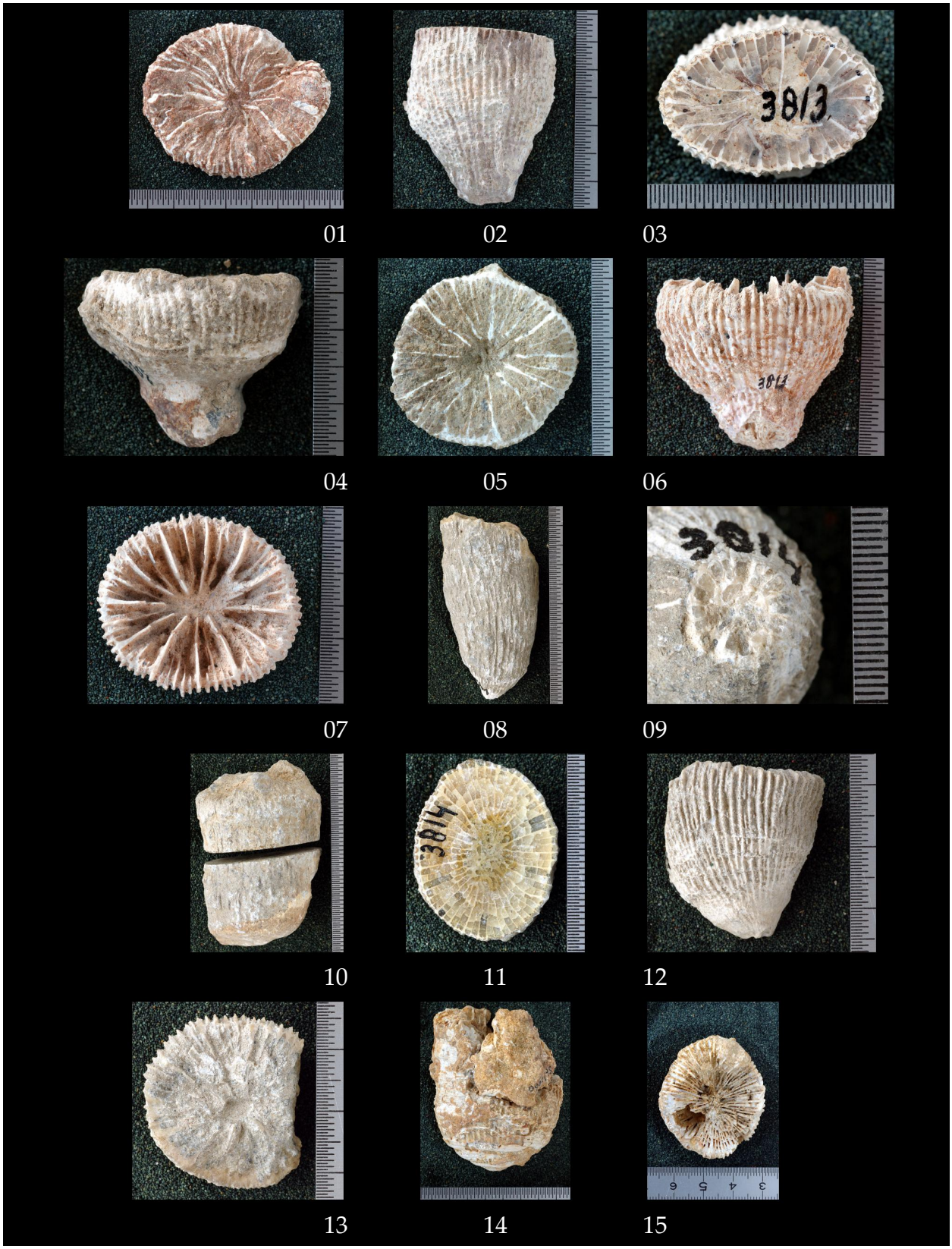
**Plate 72**



# Plate 73

Fig. 1. *Lithophyllia spinosa* (syntype) in Gerth (1921c) (RGM 525239, top view)
Fig. 2. *Lithophyllia spinosa* (syntype) in Gerth (1921c) (RGM 525240, side view)
Fig. 3. *Lithophyllia spinosa* (syntype) in Gerth (1921c) (RGM 525240, top view)
Fig. 4. *Lithophyllia spinosa* (syntype) in Gerth (1921c) (RGM 525241, side view)
Fig. 5. *Lithophyllia spinosa* (syntype) in Gerth (1921c) (RGM 525241, top view)
Fig. 6. *Lithophyllia spinosa* (syntype) in Gerth (1921c) (RGM 525242, side view)
Fig. 7. *Lithophyllia spinosa* (syntype) in Gerth (1921c) (RGM 525242, top view)
Fig. 8. *Lithophyllia spinosa* (syntype) in Gerth (1921c) (RGM 525296, side view)
Fig. 9. *Lithophyllia spinosa* (syntype) in Gerth (1921c) (RGM 525296, basal view)
Fig. 10. *Lithophyllia spinosa* (syntype) in Gerth (1921c) (RGM 525297, side view)
Fig. 11. *Lithophyllia spinosa* (syntype) in Gerth (1921c) (RGM 525297, transverse section)
Fig. 12. *Lithophyllia spinosa* (syntype) in Gerth (1921c) (RGM 525298, side view)
Fig. 13. *Lithophyllia spinosa* (syntype) in Gerth (1921c) (RGM 525298, top view)
Fig. 14. *Lithophyllia spinosa* (syntype) in Gerth (1921c) (RGM 40960, side view)
Fig. 15. *Lithophyllia spinosa* (syntype) in Gerth (1921c) (RGM 40960, top view)

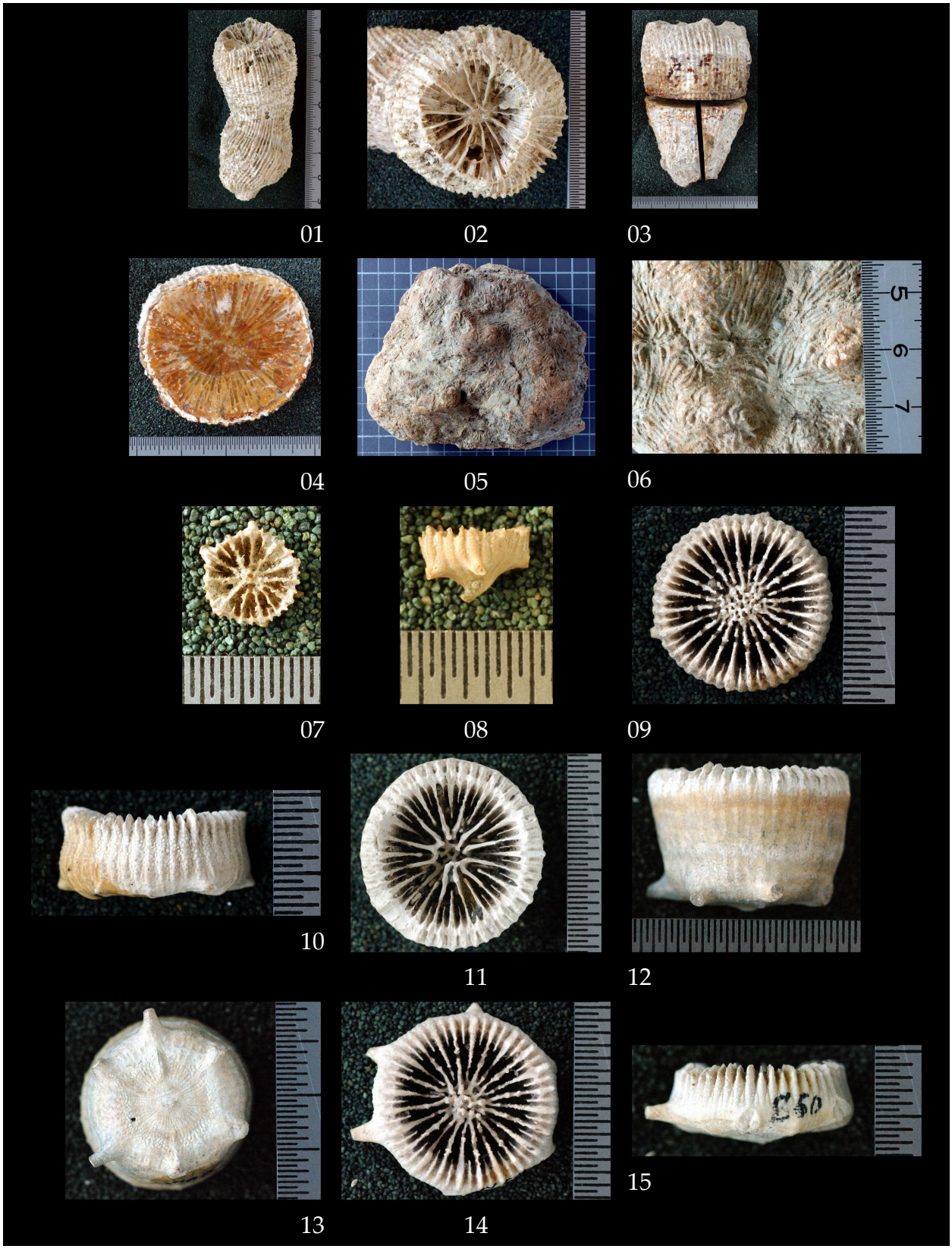
**Plate 73**



# Plate 74

Fig. 1. *Lithophyllia spinosa* (syntype) in Gerth (1921c) (RGM 3812, side view)
Fig. 2. *Lithophyllia spinosa* (syntype) in Gerth (1921c) (RGM 3812, top view)
Fig. 3. *Lithophyllia spinosa* (syntype) in Gerth (1921c) (RGM 167540, side view)
Fig. 4. *Lithophyllia spinosa* (syntype) in Gerth (1921c) (RGM 167540, transverse section)
Fig. 5. *Mycedium tubifex* in Umbgrove (1946a) (RGM 77639, top view)
Fig. 6. *Mycedium tubifex* in Umbgrove (1946a) (RGM 77639, top view)
Fig. 7. *Odontocyathus armatus* in Gerth (1923) (RGM 43067, top view)
Fig. 8. *Odontocyathus armatus* in Gerth (1923) (RGM 43067, side view)
Fig. 9. *Odontocyathus radiatus* (syntype) in Gerth (1923) (RGM 43028, top view)
Fig. 10. *Odontocyathus radiatus* (syntype) in Gerth (1923) (RGM 43028, side view)
Fig. 11. *Odontocyathus radiatus* (syntype) in Gerth (1923) (RGM 167772, top view)
Fig. 12. *Odontocyathus radiatus* (syntype) in Gerth (1923) (RGM 167772, side view)
Fig. 13. *Odontocyathus radiatus* (syntype) in Gerth (1923) (RGM 167772, basal view)
Fig. 14. *Odontocyathus radiatus* (syntype) in Gerth (1923) (RGM 167773, top view)
Fig. 15. *Odontocyathus radiatus* (syntype) in Gerth (1923) (RGM 167773, side view)

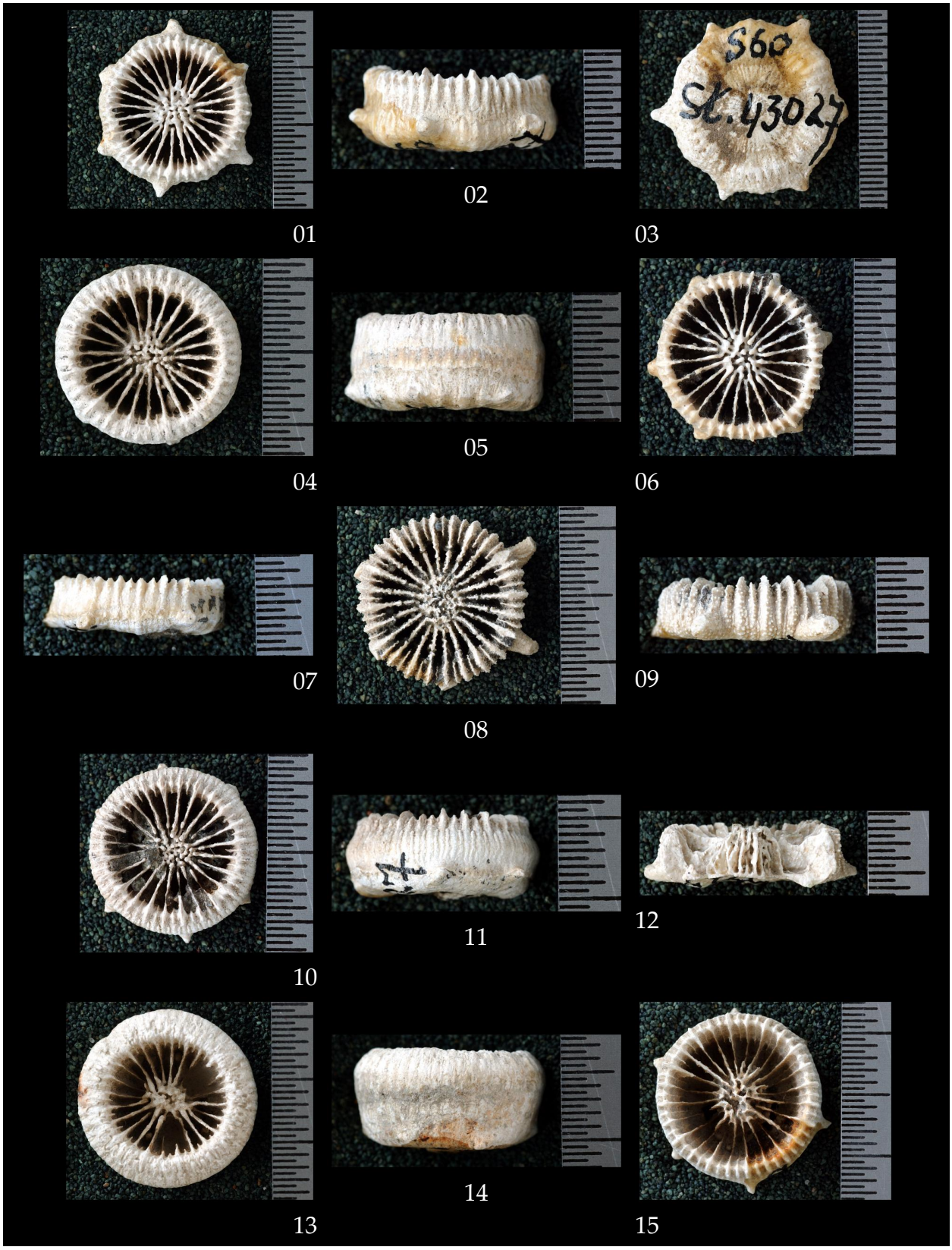
**Plate 74**



# Plate 75

Fig. 1. *Odontocyathus radiatus* (syntype) in Gerth (1923) (RGM 525457, top view)
Fig. 2. *Odontocyathus radiatus* (syntype) in Gerth (1923) (RGM 525457, side view)
Fig. 3. *Odontocyathus radiatus* (syntype) in Gerth (1923) (RGM 525457, basal view)
Fig. 4. *Odontocyathus radiatus* (syntype) in Gerth (1923) (RGM 525458, top view)
Fig. 5. *Odontocyathus radiatus* (syntype) in Gerth (1923) (RGM 525458, side view)
Fig. 6. *Odontocyathus radiatus* (syntype) in Gerth (1923) (RGM 525459, top view)
Fig. 7. *Odontocyathus radiatus* (syntype) in Gerth (1923) (RGM 525459, side view)
Fig. 8. *Odontocyathus radiatus* (syntype) in Gerth (1923) (RGM 525460, top view)
Fig. 9. *Odontocyathus radiatus* (syntype) in Gerth (1923) (RGM 525460, side view)
Fig. 10. *Odontocyathus radiatus* (syntype) in Gerth (1923) (RGM 525461, top view)
Fig. 11. *Odontocyathus radiatus* (syntype) in Gerth (1923) (RGM 525461, side view)
Fig. 12. *Odontocyathus radiatus* (syntype) in Gerth (1923) (RGM 525462, radial section)
Fig. 13. *Odontocyathus radiatus* (syntype) in Gerth (1923) (RGM 525482, top view)
Fig. 14. *Odontocyathus radiatus* (syntype) in Gerth (1923) (RGM 525482, side view)
Fig. 15. *Odontocyathus radiatus* (syntype) in Gerth (1923) (RGM 525483, top view)

**Plate 75**



# Plate 76

Fig. 1. *Odontocyathus radiatus* (syntype) in Gerth (1923) (RGM 525483, side view)
Fig. 2. *Odontocyathus radiatus* (syntype) in Gerth (1923) (RGM 525493, top view)
Fig. 3. *Odontocyathus radiatus* (syntype) in Gerth (1923) (RGM 525493, radial section)
Fig. 4. *Odontocyathus radiatus* (syntype) in Gerth (1923) (RGM 525511, top view)
Fig. 5. *Odontocyathus radiatus* (syntype) in Gerth (1923) (RGM 525511, side view)
Fig. 6. *Odontocyathus radiatus* (syntype) in Gerth (1923) (RGM 525511, basal view)
Fig. 7. *Odontocyathus sundaicus* (syntype) in Gerth (1923) (RGM 43045, top view)
Fig. 8. *Odontocyathus sundaicus* (syntype) in Gerth (1923) (RGM 43045, side view)
Fig. 9. *Odontocyathus sundaicus* (syntype) in Gerth (1923) (RGM 43045, basal view)
Fig. 10. *Odontocyathus sundaicus* (syntype) in Gerth (1923) (RGM 525387, top view)
Fig. 11. *Odontocyathus sundaicus* (syntype) in Gerth (1923) (RGM 525387, tangential section)
Fig. 12. *Odontocyathus sundaicus* (syntype) in Gerth (1923) (RGM 525387, basal view)
Fig. 13. *Odontocyathus sundaicus* (syntype) in Gerth (1923) (RGM 525387, side view)
Fig. 14. *Orbicella cyclommatos* in Gerth (1923) (RGM 43095, top view)
Fig. 15. *Orbicella cyclommatos* in Gerth (1923) (RGM 43095, side view)

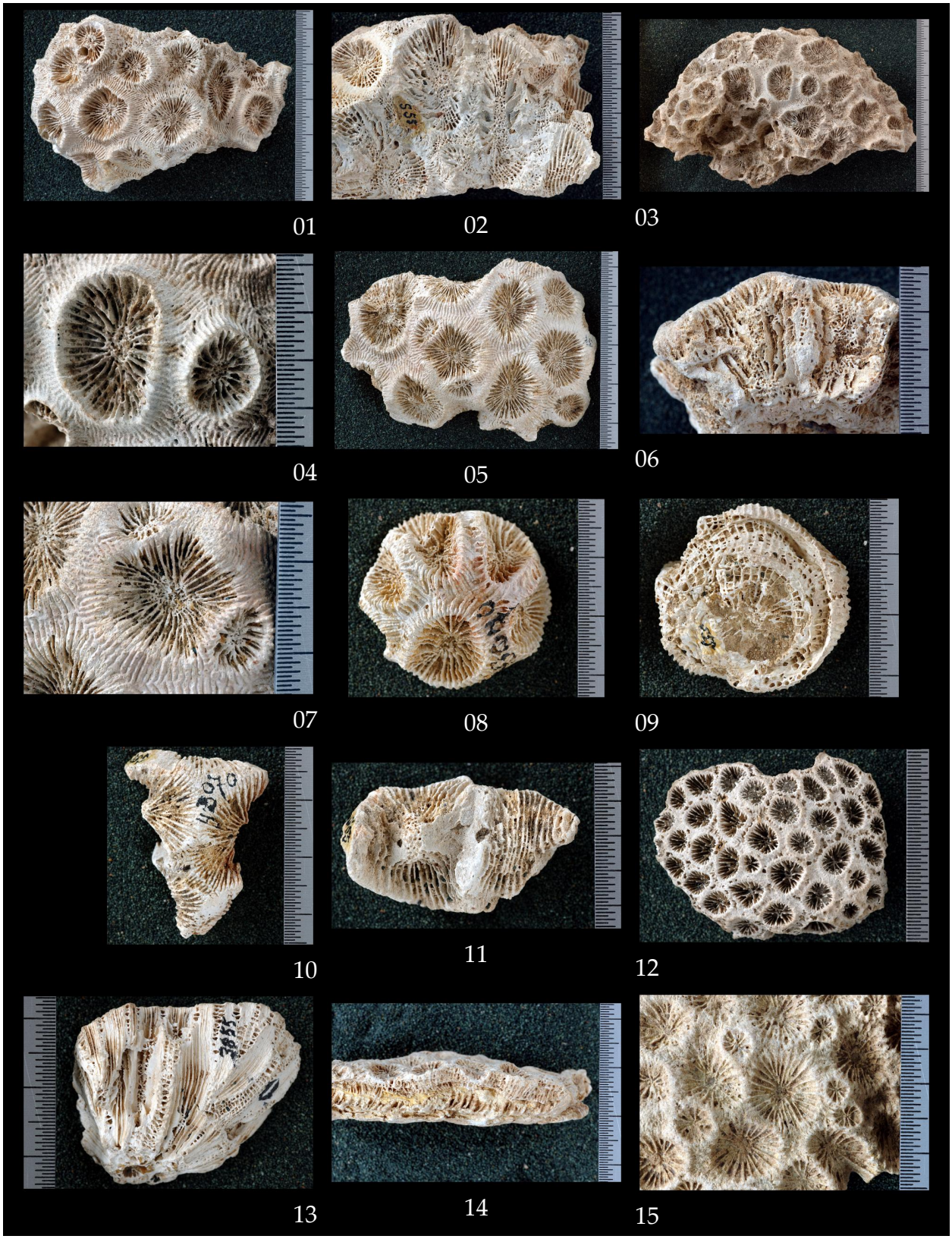
**Plate 76**



# Plate 77

Fig. 1. *Orbicella felixi* (syntype) in Gerth (1923) (RGM 6011, top view)
Fig. 2. *Orbicella felixi* (syntype) in Gerth (1923) (RGM 6011, side view)
Fig. 3. *Orbicella felixi* (syntype) in Gerth (1923) (RGM 40952, overview)
Fig. 4. *Orbicella felixi* (syntype) in Gerth (1923) (RGM 40952, top view)
Fig. 5. *Orbicella felixi* (syntype) in Gerth (1923) (RGM 43070, top view)
Fig. 6. *Orbicella felixi* (syntype) in Gerth (1923) (RGM 43070, side view)
Fig. 7. *Orbicella felixi* (syntype) in Gerth (1923) (RGM 43070, top view)
Fig. 8. *Orbicella felixi* (syntype) in Gerth (1923) (RGM 167789, top view)
Fig. 9. *Orbicella felixi* (syntype) in Gerth (1923) (RGM 167789, basal view)
Fig. 10. *Orbicella felixi* (syntype) in Gerth (1923) (RGM 167790, top view)
Fig. 11. *Orbicella felixi* (syntype) in Gerth (1923) (RGM 167790, tangential section)
Fig. 12. *Orbicella irregularis* (holotype) in Martin (1880a) (RGM 3855, top view)
Fig. 13. *Orbicella irregularis* (holotype) in Martin (1880a) (RGM 3855, tangential section)
Fig. 14. *Orbicella linggapadangensis* (holotype) in Umbgrove (1946a) (RGM 77574, side view)
Fig. 15. *Orbicella linggapadangensis* (holotype) in Umbgrove (1946a) (RGM 77574, top view)

**Plate 77**



# Plate 78

Fig. 1. *Orbicella tabulata* (holotype) in Martin (1880a) (RGM 3856, radial section)
Fig. 2. *Orbicella tabulata* (holotype) in Martin (1880a) (RGM 3856, transverse section)
Fig. 3. *Oulastrea praecrispata* (holotype) in Umbgrove (1950) (RGM 77985, top view)
Fig. 4. *Oxyphyllia javana* (holotype) in Umbgrove (1946a) (RGM 77640, top view)
Fig. 5. *Pachyseris compacta* (syntype) in Umbgrove (1950) (RGM 77999, top view)
Fig. 6. *Pachyseris compacta* (syntype) in Umbgrove (1950) (RGM 77999, side view)
Fig. 7. *Pachyseris compacta* (syntype) in Umbgrove (1950) (RGM 78000, top view)
Fig. 8. *Pachyseris curvata* in Umbgrove (1946a), *Pachyseris cristata* (holotype) in Martin (1880a) (RGM 3903, top view)
Fig. 9. *Pachyseris curvata* in Umbgrove (1946a), *Pachyseris cristata* (holotype) in Martin (1880a) (RGM 3903, side view)
Fig. 10. *Pachyseris curvata* (holotype) in Martin (1880a) (RGM 3901, top view)
Fig. 11. *Pachyseris curvata* (holotype) in Martin (1880a) (RGM 3901, side view)
Fig. 12. *Pachyseris curvata* in Umbgrove (1946a), *Pachyseris vandijki* (syntype) in Gerth (1921c) (RGM 3907, top view)
Fig. 13. *Pachyseris curvata* in Umbgrove (1946a), *Pachyseris vandijki* (syntype) in Gerth (1921c) (RGM 3907, side view)
Fig. 14. *Pachyseris curvata* in Umbgrove (1946a), *Pachyseris laticollis* (holotype) in Martin (1880a) (RGM 3905, top view)
Fig. 15. *Pachyseris curvata* in Umbgrove (1946a) (RGM 77665, top view)

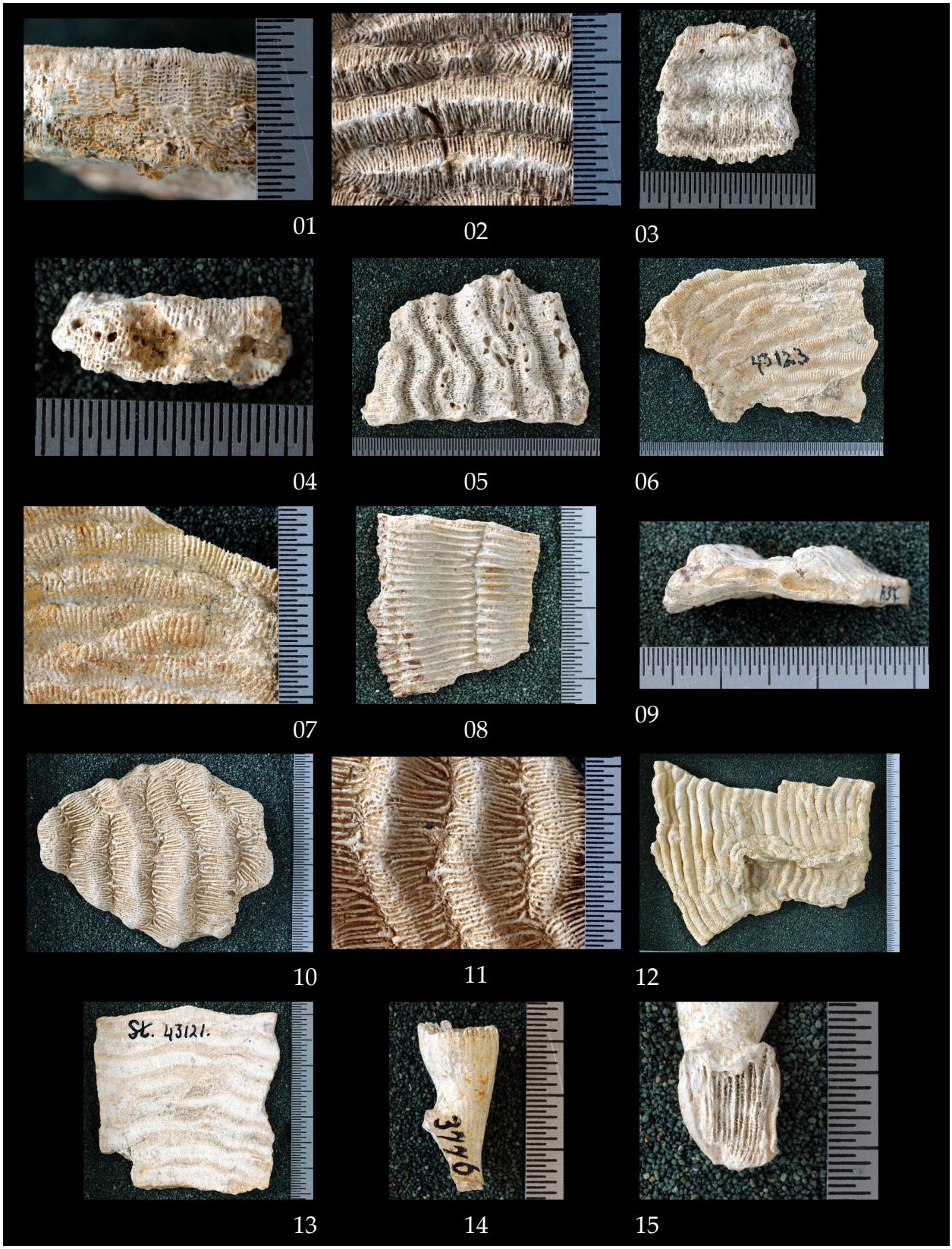
**Plate 78**



# Plate 79

Fig. 1. *Pachyseris curvata* in Umbgrove (1946a) (RGM 77665, detail, radial-tangetial section.)
Fig. 2. *Pachyseris curvata* in Umbgrove (1946a) (RGM 77665, top view)
Fig. 3. *Pachyseris vandijki* (syntype) in Gerth (1921c) (RGM 525266, top view)
Fig. 4. *Pachyseris vandijki* (syntype) in Gerth (1921c) (RGM 525266, side view)
Fig. 5. *Pachyseris vandijki* (syntype) in Gerth (1921c) (RGM 525267, top view)
Fig. 6. *Pachyseris denticulata* (syntype) in Gerth (1923) (RGM 43123, top view)
Fig. 7. *Pachyseris denticulata* (syntype) in Gerth (1923) (RGM 43123, top view)
Fig. 8. *Pachyseris distans* (holotype) in Gerth (1923) (RGM 43025, top view)
Fig. 9. *Pachyseris distans* (holotype) in Gerth (1923) (RGM 43025, side view)
Fig. 10. *Pachyseris murchisoni* in Gerth (1923) (RGM 43127, top view)
Fig. 11. *Pachyseris murchisoni* in Gerth (1923) (RGM 43127, top view)
Fig. 12. *Pachyseris speciosa* in Gerth (1923) (RGM 43121, top view)
Fig. 13. *Pachyseris speciosa* in Gerth (1923) (RGM 43121, transverse section)
Fig. 14. *Paracyathus javana* (syntype) in Umbgrove (1950), *Paracyathus procumbens* in Gerth (1921c) (RGM 3776, side view)
Fig. 15. *Paracyathus javana* (syntype) in Umbgrove (1950), *Paracyathus procumbens* in Gerth (1921c) (RGM 3776, basal view)

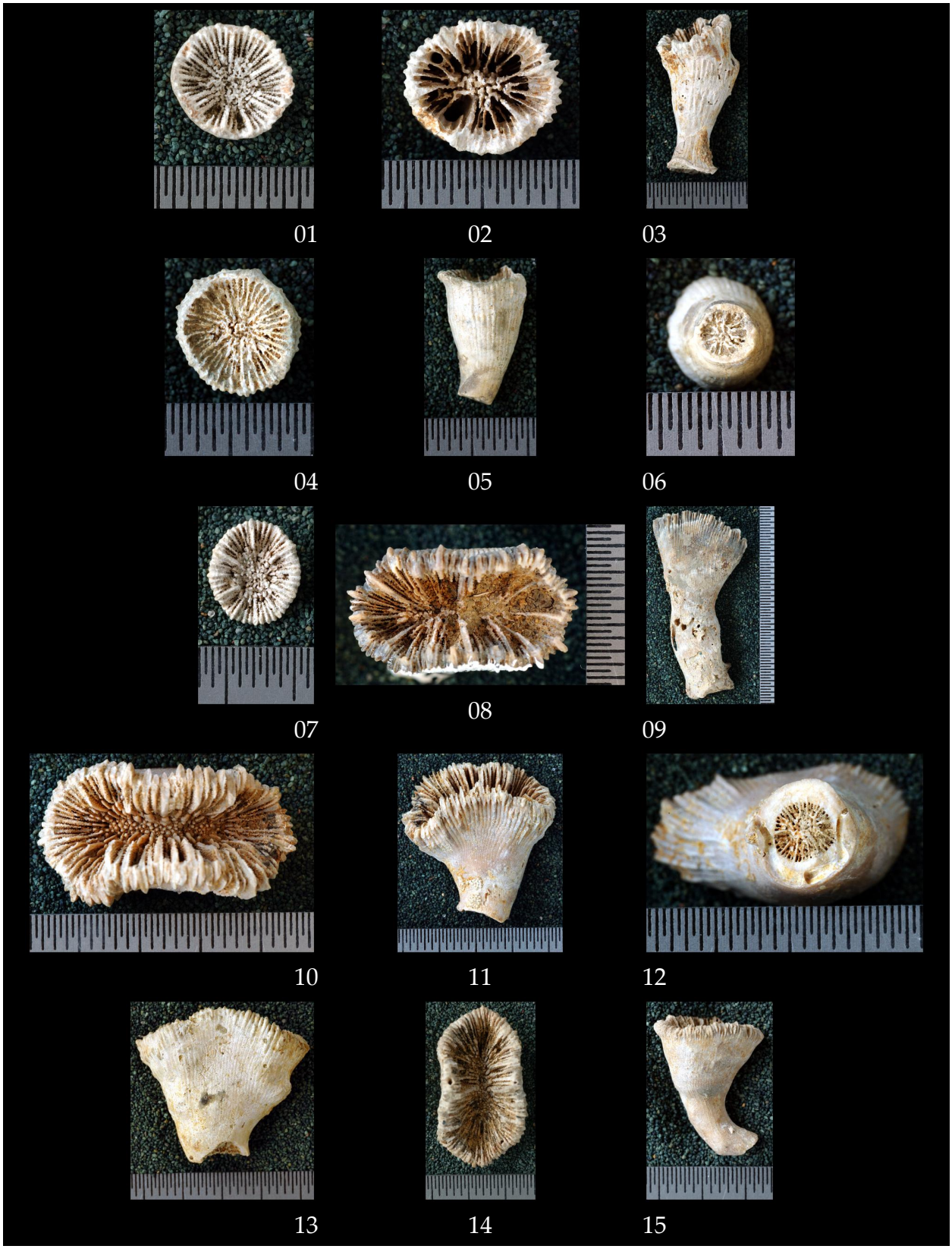
**Plate 79**



# Plate 80

Fig. 1. *Paracyathus javana* (syntype) in Umbgrove (1950), *Paracyathus procumbens* in Gerth (1921c) (RGM 3776, top view)
Fig. 2. *Paracyathus javana* (syntype) in Umbgrove (1950) (RGM 77941, top view)
Fig. 3. *Paracyathus javana* (syntype) in Umbgrove (1950) (RGM 77941, side view)
Fig. 4. *Paracyathus javana* (syntype) in Umbgrove (1950) (RGM 77940, top view)
Fig. 5. *Paracyathus javana* (syntype) in Umbgrove (1950) (RGM 77940, side view)
Fig. 6. *Paracyathus javana* (syntype) in Umbgrove (1950) (RGM 77940, basal view)
Fig. 7. *Paracyathus javana* (syntype) in Umbgrove (1950) (RGM 167692, top view)
Fig. 8. *Paracyathus stokesii* in Umbgrove (1950) (RGM 77937, top view)
Fig. 9. *Paracyathus stokesii* in Umbgrove (1950) (RGM 77937, side view)
Fig. 10. *Paracyathus stokesii* in Umbgrove (1950) (RGM 77938, top view)
Fig. 11. *Paracyathus stokesii* in Umbgrove (1950) (RGM 77938, side view)
Fig. 12. *Paracyathus stokesii* in Umbgrove (1950) (RGM 77938, transverse section)
Fig. 13. *Paracyathus stokesii* in Umbgrove (1950) (RGM 167690, side view)
Fig. 14. *Paracyathus stokesii* in Umbgrove (1950) (RGM 167690, top view)
Fig. 15. *Paracyathus stokesii* in Umbgrove (1950) (RGM 167691, side view)

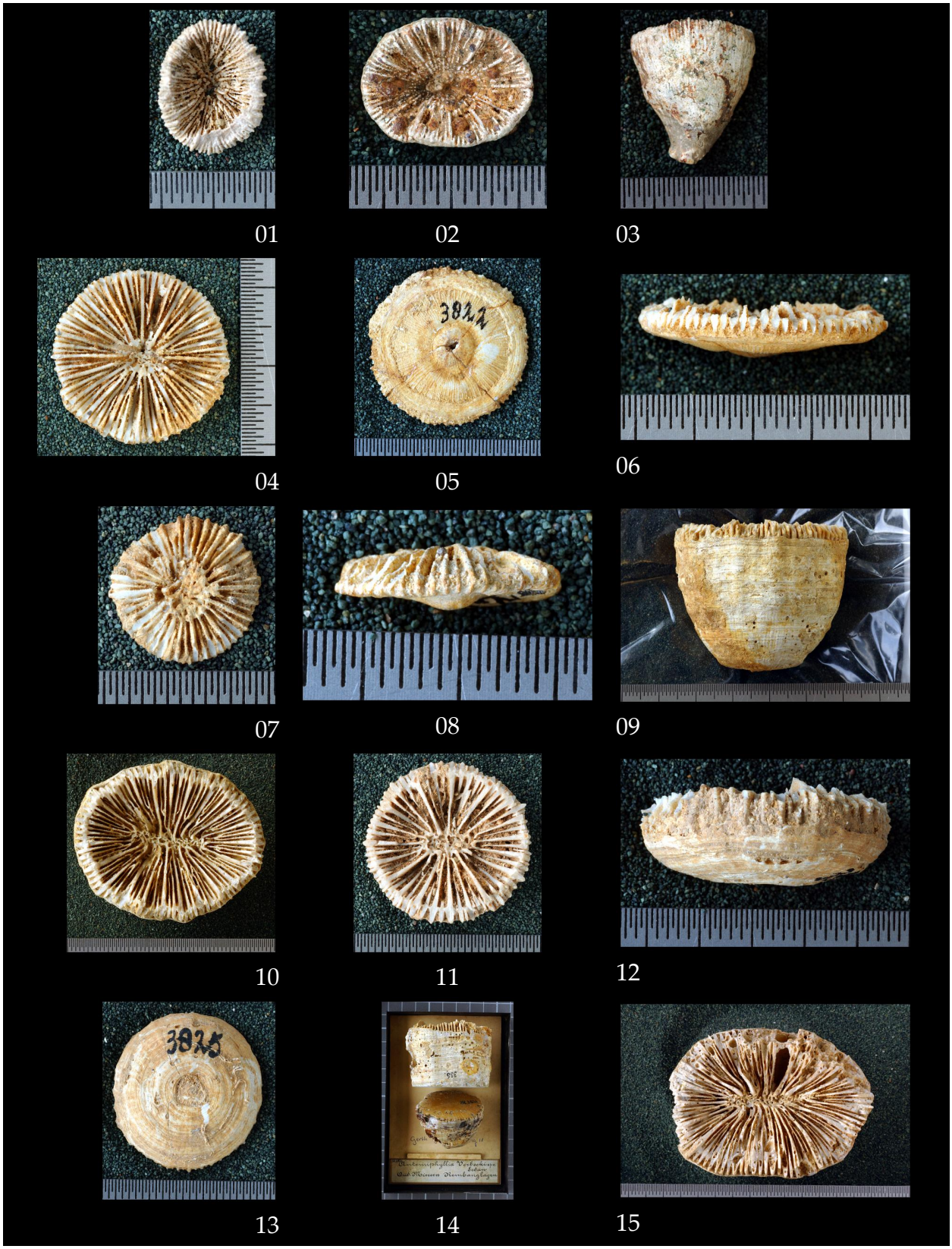
**Plate 80**



# Plate 81

Fig. 1. *Paracyathus stokesii* in Umbgrove (1950) (RGM 167691, top view)
Fig. 2. *Paracyathus sp.* in Umbgrove (1950) (RGM 77942, top view)
Fig. 3. *Paracyathus sp.* in Umbgrove (1950) (RGM 77942, side view)
Fig. 4. *Pattalophyllia patella* (syntype) in Gerth (1921c) (RGM 3822, top view)
Fig. 5. *Pattalophyllia patella* (syntype) in Gerth (1921c) (RGM 3822, basal view)
Fig. 6. *Pattalophyllia patella* (syntype) in Gerth (1921c) (RGM 3822, side view)
Fig. 7. *Pattalophyllia patella* (syntype) in Gerth (1921c) (RGM 167543, top view)
Fig. 8. *Pattalophyllia patella* (syntype) in Gerth (1921c) (RGM 167543, side view)
Fig. 9. *Pattalophyllia verbeeki* (syntype) in Gerth (1921c) (RGM 3823, side view)
Fig. 10. *Pattalophyllia verbeeki* (syntype) in Gerth (1921c) (RGM 3823, top view)
Fig. 11. *Pattalophyllia verbeeki* (syntype) in Gerth (1921c) (RGM 3825, top view)
Fig. 12. *Pattalophyllia verbeeki* (syntype) in Gerth (1921c) (RGM 3825, side view)
Fig. 13. *Pattalophyllia verbeeki* (syntype) in Gerth (1921c) (RGM 3825, basal view)
Fig. 14. *Pattalophyllia verbeeki* (syntype) in Gerth (1921c) (RGM 3824, side view)
Fig. 15. *Pattalophyllia verbeeki* (syntype) in Gerth (1921c) (RGM 3824, top view)

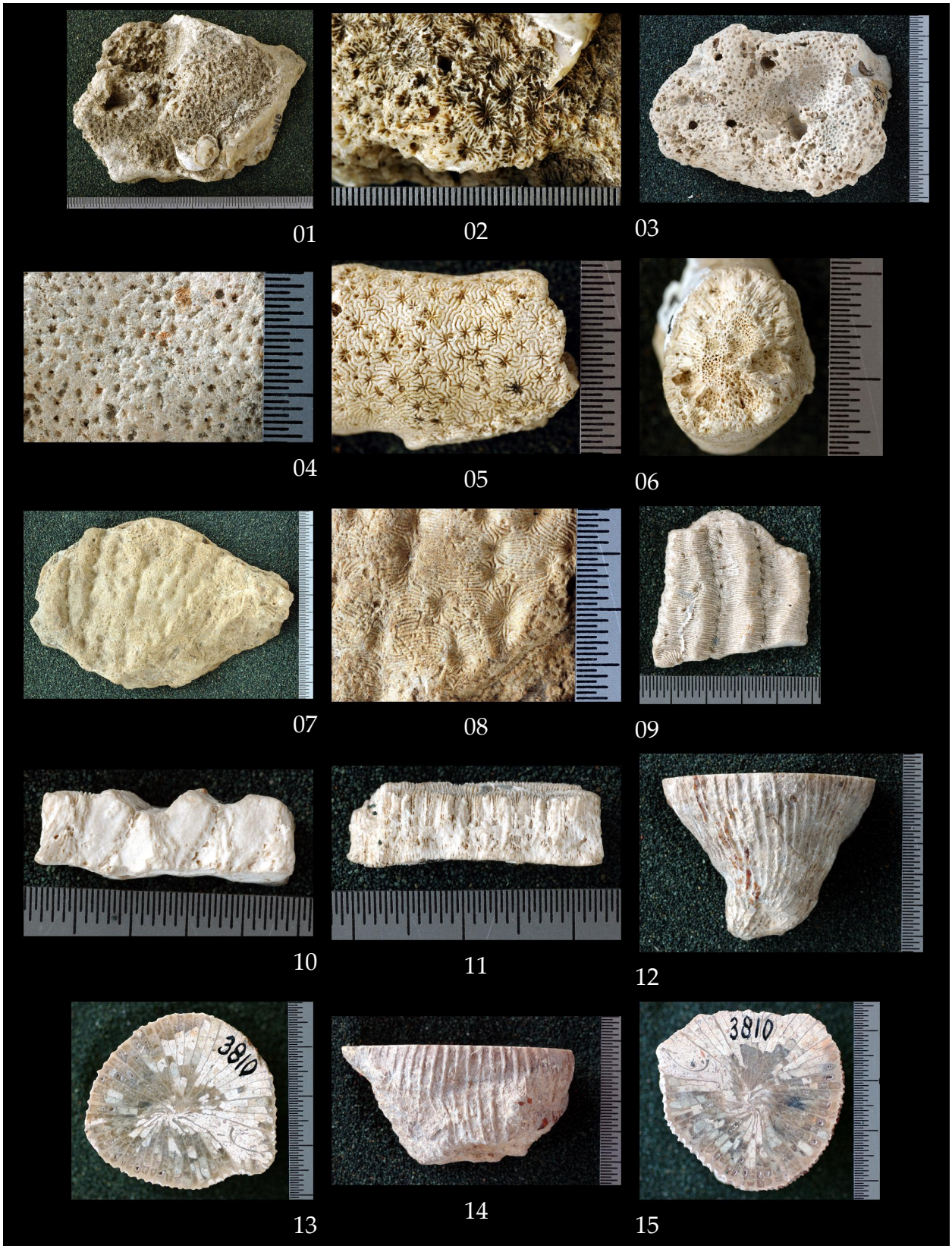
**Plate 81**



# Plate 82

Fig. 1. *Pavona clava* in Umbgrove (1946a), *Pavona folium* (holotype) in Martin (1880a) (RGM 3910, top view)
Fig. 2. *Pavona clava* in Umbgrove (1946a), *Pavona folium* (holotype) in Martin (1880a) (RGM 3910, detail)
Fig. 3. *Pavona microstoma* in Oosterbaan (1985), paralectotype in Umbgrove (1946b), syntype in Gerth (1925) (RGM 125818, basal view)
Fig. 4. *Pavona microstoma* in Oosterbaan (1985), paralectotype in Umbgrove (1946b), syntype in Gerth (1925) (RGM 125818, top view)
Fig. 5. *Pavona microstoma* in Umbgrove (1946b) (RGM 525346, side view)
Fig. 6. *Pavona microstoma* in Umbgrove (1946b) (RGM 525346, transverse section)
Fig. 7. *Pavonaraea irregularis* (holotype) in Umbgrove (1946a) (RGM 77681, top view)
Fig. 8. *Pavonaraea irregularis* (holotype) in Umbgrove (1946a) (RGM 77681, top view)
Fig. 9. *Pavonaraea javana* (holotype) in Gerth (1921c) (RGM 3902, top view)
Fig. 10. *Pavonaraea javana* (holotype) in Gerth (1921c) (RGM 3902, side view)
Fig. 11. *Pavonaraea javana* (holotype) in Gerth (1921c) (RGM 3902, side view)
Fig. 12. *Petrophylliella javana* (syntype) in Gerth (1921c) (RGM 525247, side view)
Fig. 13. *Petrophylliella javana* (syntype) in Gerth (1921c) (RGM 525247, top view)
Fig. 14. *Petrophylliella javana* (syntype) in Gerth (1921c) (RGM 525248, side view)
Fig. 15. *Petrophylliella javana* (syntype) in Gerth (1921c) (RGM 525248, top view)

**Plate 82**



# Plate 83

Fig. 1. *Petrophylliella javana* (syntype) in Gerth (1921c) (RGM 525249, side view)
Fig. 2. *Petrophylliella javana* (syntype) in Gerth (1921c) (RGM 525249, top view)
Fig. 3. *Petrophylliella javana* (syntype) in Gerth (1921c) (RGM 525250, side view)
Fig. 4. *Petrophylliella javana* (syntype) in Gerth (1921c) (RGM 525250, top view)
Fig. 5. *Petrophylliella javana* (syntype) in Gerth (1921c) (RGM 525251, side view)
Fig. 6. *Petrophylliella javana* (syntype) in Gerth (1921c) (RGM 525251, top view)
Fig. 7. *Petrophylliella javana* (syntype) in Gerth (1921c) (RGM 525252, side view)
Fig. 8. *Petrophylliella javana* (syntype) in Gerth (1921c) (RGM 525252, top view)
Fig. 9. *Petrophylliella javana* (syntype) in Gerth (1921c) (RGM 525253, top view)
Fig. 10. *Petrophylliella javana* (syntype) in Gerth (1921c) (RGM 525255, side view)
Fig. 11. *Petrophylliella javana* (syntype) in Gerth (1921c) (RGM 525255, top view)
Fig. 12. *Petrophylliella javana* (syntype) in Gerth (1921c) (RGM 525256, side view)
Fig. 13. *Petrophylliella javana* (syntype) in Gerth (1921c) (RGM 525257, side view)
Fig. 14. *Petrophylliella javana* (syntype) in Gerth (1921c) (RGM 525257, top view)
Fig. 15. *Petrophylliella javana* (syntype) in Gerth (1921c) (RGM 3809, side view)

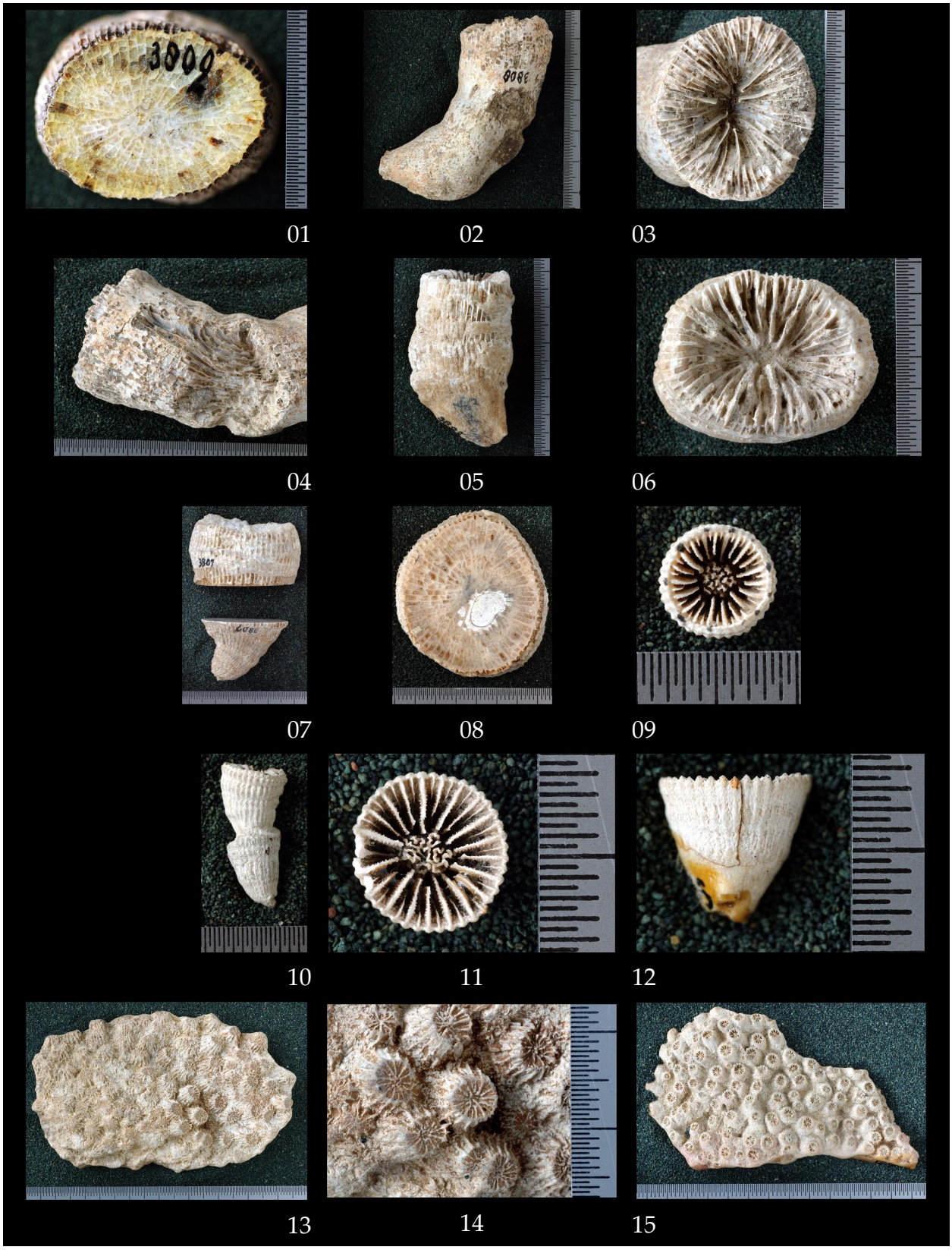
**Plate 83**



# Plate 84

Fig. 1. *Petrophylliella javana* (syntype) in Gerth (1921c) (RGM 3809, detail)
Fig. 2. *Petrophylliella javana* (syntype) in Gerth (1921c) (RGM 3808, side view)
Fig. 3. *Petrophylliella javana* (syntype) in Gerth (1921c) (RGM 3808, top view)
Fig. 4. *Petrophylliella javana* (syntype) in Gerth (1921c) (RGM 3808, detail)
Fig. 5. *Petrophylliella javana* (syntype) in Gerth (1921c) (RGM 3807, side view)
Fig. 6. *Petrophylliella javana* (syntype) in Gerth (1921c) (RGM 3807, top view)
Fig. 7. *Petrophylliella javana* (syntype) in Gerth (1921c) (RGM 167539, side view)
Fig. 8. *Petrophylliella javana* (syntype) in Gerth (1921c) (RGM 167539, transverse section)
Fig. 9. *Phloeocyathus brunneus* in Gerth (1923) (RGM 43040, top view)
Fig. 10. *Phloeocyathus brunneus* in Gerth (1923) (RGM 43040, side view)
Fig. 11. *Phloeocyathus brunneus* in Gerth (1923) (RGM 167780, top view)
Fig. 12. *Phloeocyathus brunneus* in Gerth (1923) (RGM 167780, side view)
Fig. 13. *Phyllangia divaricata* (holotype) in Gerth (1923) (RGM 43096, top view)
Fig. 14. *Phyllangia divaricata* (holotype) in Gerth (1923) (RGM 43096, top view)
Fig. 15. *Phyllangia imbricata* (syntype) in Gerth (1923) (RGM 43099, top view)

**Plate 84**



# Plate 85

Fig. 1. *Phyllangia imbricata* (syntype) in Gerth (1923) (RGM 43099, top view)
Fig. 2. *Pironastraea sangkoelirangensis* (holotype) in Gerth (1923) (RGM 43111, top view)
Fig. 3. *Pironastraea sangkoelirangensis* (holotype) in Gerth (1923) (RGM 43111, side view)
Fig. 4. *Pironastraea sangkoelirangensis* (holotype) in Gerth (1923) (RGM 43111, basal view)
Fig. 5. *Placocoenia neuquensis* (syntype) in Gerth (1928) (RGM 143053, detail)
Fig. 6. *Placocoenia neuquensis* (syntype) in Gerth (1928) (RGM 143054, detail)
Fig. 7. *Placosmilia panovani* (holotype) in Gerth (1921c) (RGM 3803, side view)
Fig. 8. *Placosmilia panovani* (holotype) in Gerth (1921c) (RGM 3803, top view)
Fig. 9. *Placosmilia sp.* in Gerth (1923) (RGM 43043, top view)
Fig. 10. *Placosmilia sp.* in Gerth (1923) (RGM 43043, side view)
Fig. 11. *Placosmilia sp.* in Gerth (1923) (RGM 43042, top view)
Fig. 12. *Placosmilia sp.* in Gerth (1923) (RGM 43042, side view)
Fig. 13. *Oulophyllia angusta* (holotype) in Gerth (1925) (RGM 17978, transverse section)
Fig. 14. *Oulophyllia angusta* (holotype) in Gerth (1925) (RGM 17978, transverse section)
Fig. 15. *Platygyra phrygia* in Umbgrove (1946a) (RGM 77584, top view)

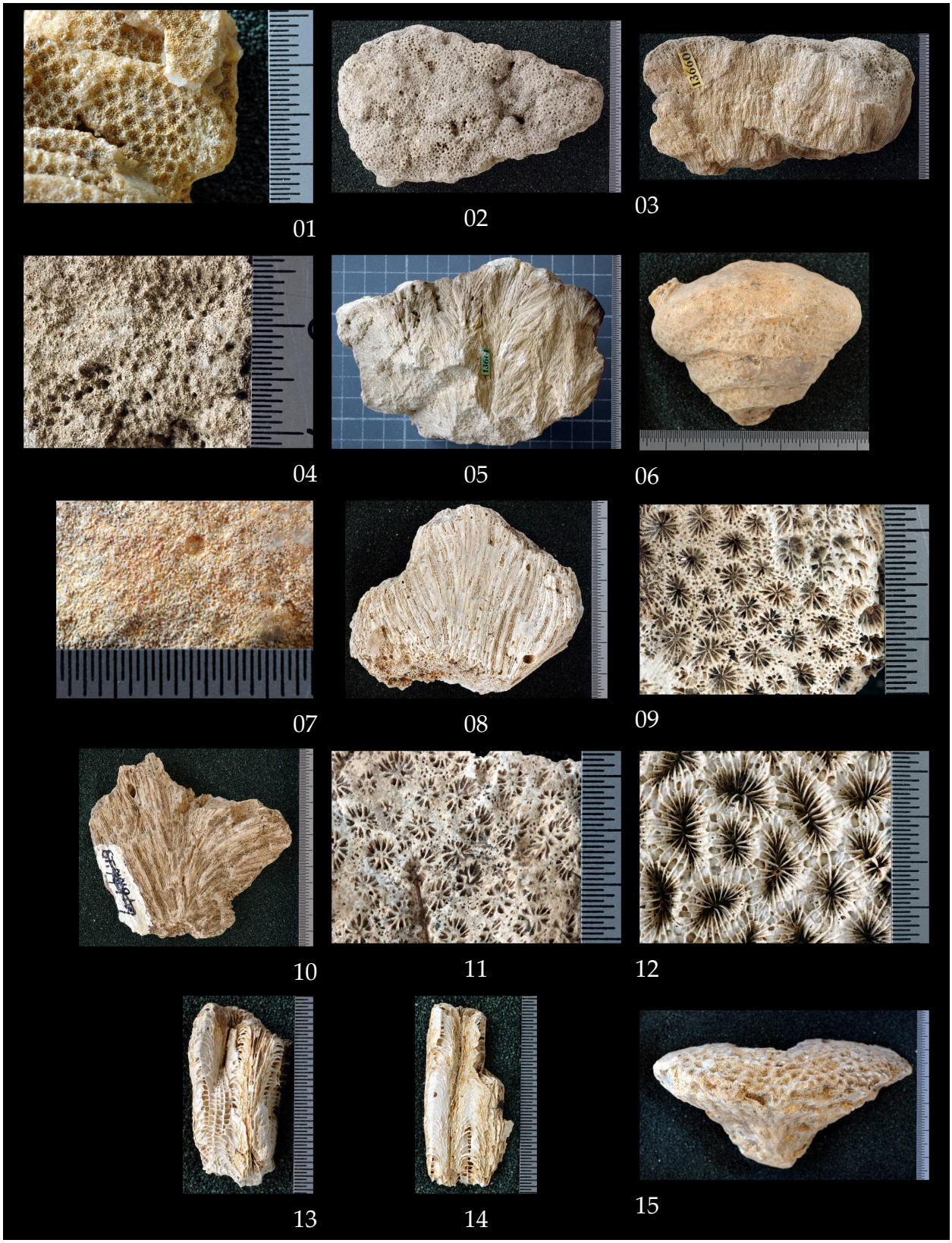
**Plate 85**



# Plate 86

Fig. 1. *Porites strata* (holotype) in Martin (1880a) (RGM 3959, top view)
Fig. 2. *Porites timorensis forma fossilisprima* (holotype) in Felix (1915) (THDKA 13660, top view)
Fig. 3. *Porites timorensis forma fossilisprima* (holotype) in Felix (1915) (THDKA 13660, side view)
Fig. 4. *Porites timorensis forma fossilisprima* (holotype) in Felix (1915) (THDKA 13661, detail)
Fig. 5. *Porites timorensis forma fossilisprima* (holotype) in Felix (1915) (THDKA 13661, side view)
Fig. 6. *Porites sp.* in Umbgrove (1939) (RGM 35477b, side view)
Fig. 7. *Porites sp.* in Umbgrove (1939) (RGM 35477b, top view)
Fig. 8. *Progyrosmilia regularis* (syntype) in Umbgrove (1950) (RGM 77969, side view)
Fig. 9. *Progyrosmilia regularis* (syntype) in Umbgrove (1950) (RGM 77969, top view)
Fig. 10. *Progyrosmilia regularis* (syntype) in Umbgrove (1950) (RGM 167694, tangential section)
Fig. 11. *Progyrosmilia regularis* (syntype) in Umbgrove (1950) (RGM 167694, transverse section)
Fig. 12. *Progyrosmilia vacua* (syntype) in Gerth (1923) (RGM 17704, top view)
Fig. 13. *Progyrosmilia vacua* (syntype) in Gerth (1923) (RGM 17704, tangential section)
Fig. 14. *Progyrosmilia vacua* (syntype) in Gerth (1923) (RGM 17704, tangential section)
Fig. 15. *Progyrosmilia vacua* in Umbgrove (1939) (RGM 35480, side view)

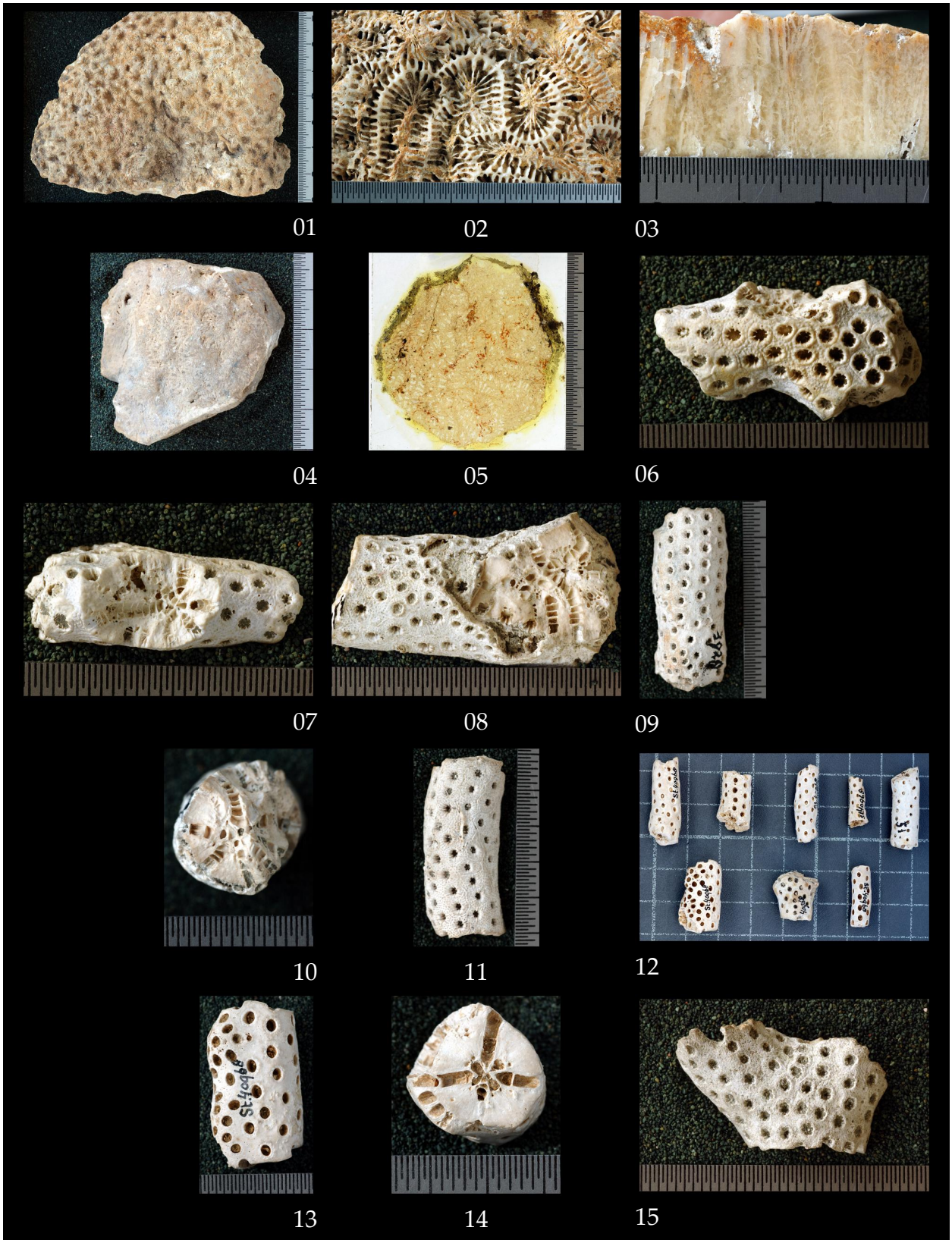
**Plate 86**



# Plate 87

Fig. 1. *Progyrosmilia vacua* in Umbgrove (1939) (RGM 35480, top view)
Fig. 2. *Scalariogyra escharoides* (syntype) in Gerth (1923) (RGM 43058, top view)
Fig. 3. *Scalariogyra escharoides* (syntype) in Gerth (1923) (RGM 43058, tangential section)
Fig. 4. *Scalariogyra escharoides* (syntype) in Gerth (1923) (RGM 43061, basal view)
Fig. 5. *Scalariogyra escharoides* (syntype) in Gerth (1923) (RGM 43061, transverse section)
Fig. 6. *Seriatopora irregularis* (syntype) in Gerth (1921c) (RGM 3929, side view)
Fig. 7. *Seriatopora irregularis* (syntype) in Gerth (1921c) (RGM 3929, side view)
Fig. 8. *Seriatopora irregularis* (syntype) in Gerth (1921c) (RGM 3928, detail)
Fig. 9. *Seriatopora irregularis* (syntype) in Gerth (1921c) (RGM 167560, side view)
Fig. 10. *Seriatopora irregularis* (syntype) in Gerth (1921c) (RGM 167560, transverse section)
Fig. 11. *Seriatopora irregularis* (syntype) in Gerth (1921c) (RGM 167561, side view)
Fig. 12. *Seriatopora irregularis* (syntype) in Gerth (1921c) (RGM 40968, overview)
Fig. 13. *Seriatopora irregularis* (syntype) in Gerth (1921c) (RGM 40968, side view)
Fig. 14. *Seriatopora irregularis* (syntype) in Gerth (1921c) (RGM 40968, transverse section)
Fig. 15. *Seriatopora irregularis* (syntype) in Gerth (1921c) (RGM 3927, side view)

**Plate 87**



# Plate 88

Fig. 1. *Seriatopora irregularis* (syntype) in Gerth (1921c) (RGM 3927, top view)
Fig. 2. *Seriatopora irregularis* (syntype) in Gerth (1921c) (RGM 3931, side view)
Fig. 3. *Seriatopora irregularis* (syntype) in Gerth (1921c) (RGM 3930, detail)
Fig. 4. *Seriatopora irregularis* (syntype) in Gerth (1921c) (RGM 3930, top view)
Fig. 5. *Solenastraea semarangensis* (syntype) in Gerth (1921c) (RGM 3863, transverse section)
Fig. 6. *Solenastraea semarangensis* (syntype) in Gerth (1921c) (RGM 3863, top view)
Fig. 7. *Solenastraea semarangensis* (syntype) in Gerth (1921c) (RGM 525365, top view)
Fig. 8. *Solenastraea semarangensis* (syntype) in Gerth (1921c) (RGM 525366, top view)
Fig. 9. *Solenastraea semarangensis* (syntype) in Gerth (1921c) (RGM 525366, radial section)
Fig. 10. *Sphenotrochus viola* in Gerth (1921c) (RGM 3771, top view)
Fig. 11. *Sphenotrochus viola* in Gerth (1921c) (RGM 3771, side view)
Fig. 12. *Stephanocyathus magnificus* (holotype) in Gerth (1923) (RGM 43026, top view)
Fig. 13. *Stephanocyathus magnificus* (holotype) in Gerth (1923) (RGM 43026, side view)
Fig. 14. *Stephanoseris carthausi* in Felix (1915) (RGM 525662, top view)
Fig. 15. *Stephanoseris carthausi* in Felix (1915) (THDKA 13647, top view)

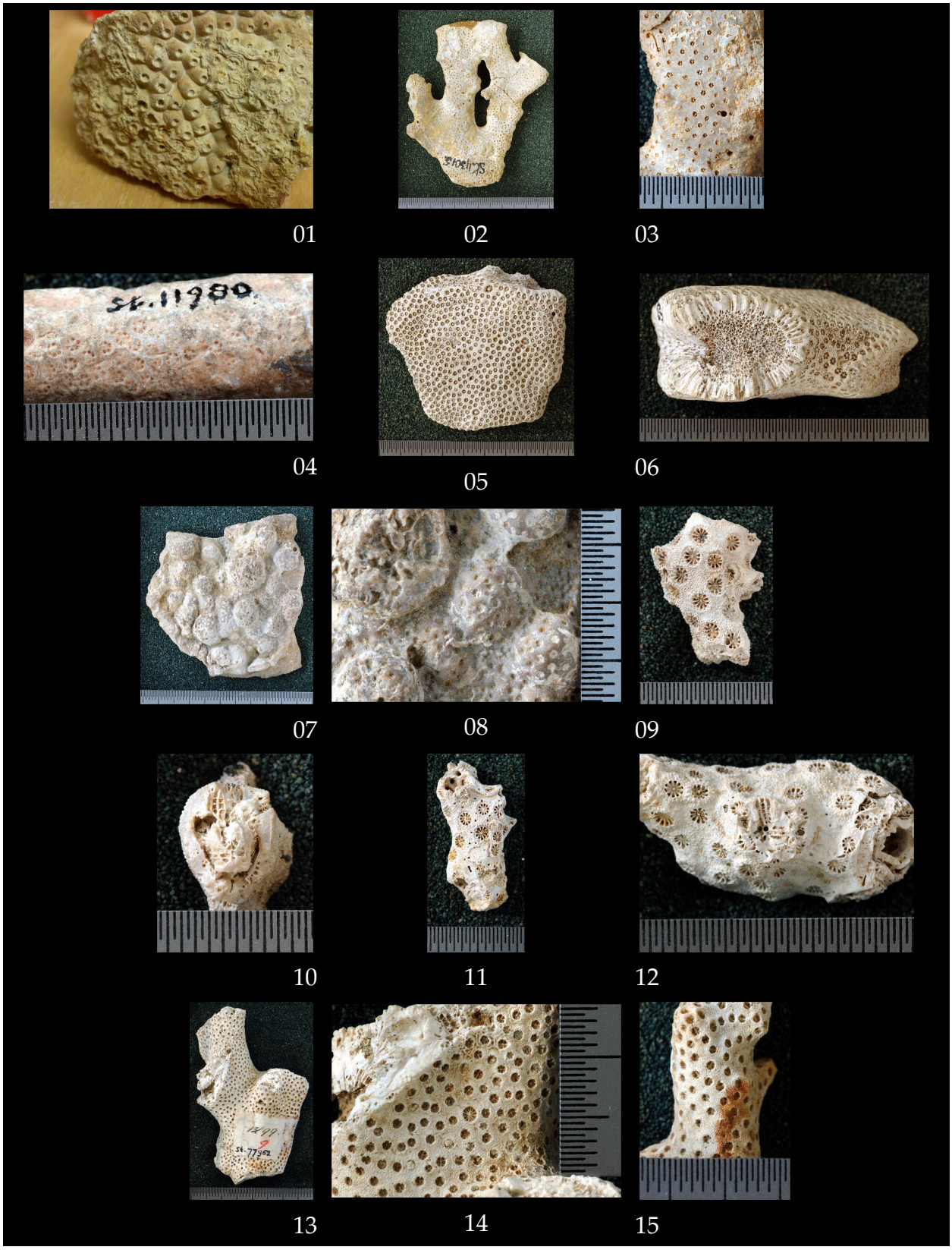
**Plate 88**



# Plate 89

Fig. 1. *Stylohelia mamillata* in Gerth (1908) (IPB Gerth 40, top view)
Fig. 2. *Stylophora coalescens* (syntype) in Gerth (1923) (RGM 43015, top view)
Fig. 3. *Stylophora coalescens* (syntype) in Gerth (1923) (RGM 43015, top view)
Fig. 4. *Stylophora digitata* in Martin (1883) (RGM 11980, detail)
Fig. 5. *Stylophora digitata* in Martin (1880a) (RGM 3913, top view)
Fig. 6. *Stylophora digitata* in Martin (1880a) (RGM 3913, basal view)
Fig. 7. *Stylophora gemmans* (syntype) in Gerth (1923) (RGM 43016, top view)
Fig. 8. *Stylophora gemmans* (syntype) in Gerth (1923) (RGM 43016, top view)
Fig. 9. *Stylophora granulata* (syntype) in Umbgrove (1950) (RGM 77954, side view)
Fig. 10. *Stylophora granulata* (syntype) in Umbgrove (1950) (RGM 77954, top view)
Fig. 11. *Stylophora granulata* (syntype) in Umbgrove (1950) (RGM 525527, side view)
Fig. 12. *Stylophora granulata* (syntype) in Umbgrove (1950) (RGM 525528, side view)
Fig. 13. *Stylophora pocilloporoides* (syntype) in Umbgrove (1950) (RGM 77952, side view)
Fig. 14. *Stylophora pocilloporoides* (syntype) in Umbgrove (1950) (RGM 77952, top view)
Fig. 15. *Stylophora pocilloporoides* (syntype) in Umbgrove (1950) (RGM 525343, side view)

**Plate 89**



# Plate 90

Fig. 1. *Stylophora pocilloporoides* (syntype) in Umbgrove (1950) (RGM 525344, side view)
Fig. 2. *Stylophora pocilloporoides* (syntype) in Umbgrove (1950) (RGM 525345, side view)
Fig. 3. *Stylophora pocilloporoides* (syntype) in Umbgrove (1950) (RGM 77951, side view)
Fig. 4. *Stylophora pocilloporoides* (syntype) in Umbgrove (1950) (RGM 77951, top view)
Fig. 5. *Stylophora pocilloporoides* (syntype) in Umbgrove (1950) (RGM 525525, side view)
Fig. 6. *Stylophora pocilloporoides* (syntype) in Umbgrove (1950) (RGM 525525, top view)
Fig. 7. *Stylophora pocilloporoides* (syntype) in Umbgrove (1950) (RGM 525526, transverse section)
Fig. 8. *Stylophora sokkohensis* (syntype) in Gerth (1921c) (RGM 3920, side view)
Fig. 9. *Stylophora sokkohensis* (syntype) in Gerth (1921c) (RGM 3920, top view, foram at the left is *Pseudomalabarica tabalarensis* according to Wilem Renema (April 7th, 2005).)
Fig. 10. *Stylophora sokkohensis* (syntype) in Gerth (1921c) (RGM 3920, side view)
Fig. 11. *Stylophora sokkohensis* (syntype) in Gerth (1921c) (RGM 3921, top view)
Fig. 12. *Stylophora tenuissima* (syntype) in Gerth (1923) (RGM 167793, side view)
Fig. 13. *Stylophora tenuissima* (syntype) in Gerth (1923) (RGM 167794, side view)
Fig. 14. *Stylophora tenuissima* (syntype) in Gerth (1923) (RGM 167795, overview)
Fig. 15. *Stylophora verrucosa* (syntype) in Gerth (1923) (RGM 43017, side view)

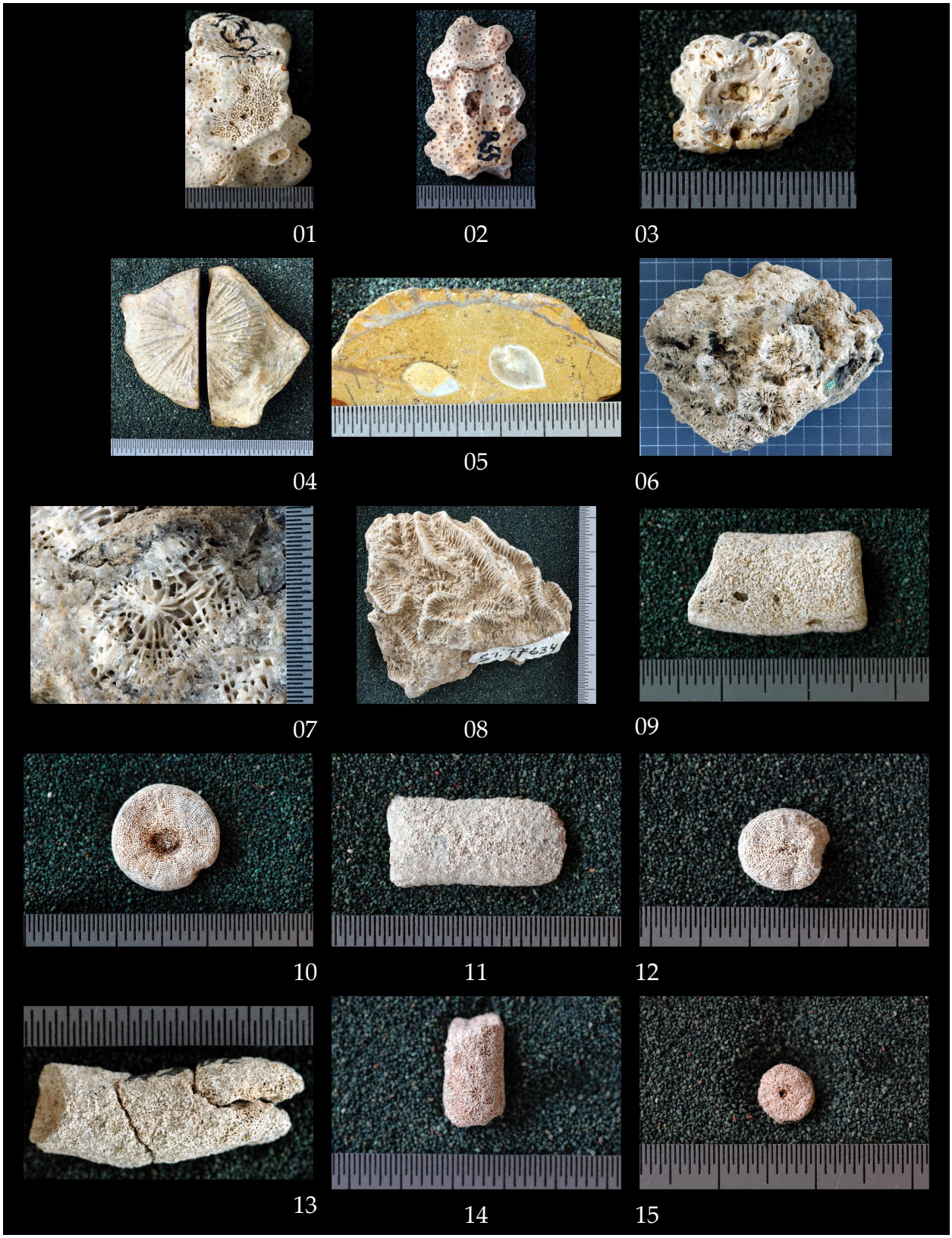
**Plate 90**


01
02
03
04
05
06
07
08
Stylophora sokkohensis
09
10
11
12
13
14
15

# Plate 91

Fig. 1. *Stylophora verrucosa* (syntype) in Gerth (1923) (RGM 43017, transverse section)
Fig. 2. *Stylophora verrucosa* (syntype) in Gerth (1923) (RGM 167796, side view)
Fig. 3. *Stylophora verrucosa* (syntype) in Gerth (1923) (RGM 167796, transverse section)
Fig. 4. *Stylophyllopsis timoricus* (holotype) in Vinassa de Regny (1915) (THDKA 12837, top view)
Fig. 5. *Stylophyllopsis timoricus* (holotype) in Vinassa de Regny (1915) (THDKA 12837, tangential section)
Fig. 6. *Symphyllia molengraaffi* (syntype) in Felix (1915) (THDKA 15693, overview)
Fig. 7. *Symphyllia molengraaffi* (syntype) in Felix (1915) (THDKA 15693, basal view)
Fig. 8. *Symphyllia recta* in Umbgrove (1946a) (RGM 77634, top view)
Fig. 9. *Synaraea javana* (syntype) in Gerth (1921c) (RGM 3954, side view)
Fig. 10. *Synaraea javana* (syntype) in Gerth (1921c) (RGM 3954, basal view)
Fig. 11. *Synaraea javana* (syntype) in Gerth (1921c) (RGM 525205, side view)
Fig. 12. *Synaraea javana* (syntype) in Gerth (1921c) (RGM 525205, basal view)
Fig. 13. *Synaraea javana* (syntype) in Gerth (1921c) (RGM 525206, side view)
Fig. 14. *Synaraea javana* (syntype) in Gerth (1921c) (RGM 3957, side view)
Fig. 15. *Synaraea javana* (syntype) in Gerth (1921c) (RGM 3957, top view)

**Plate 91**



# Plate 92

Fig. 1. *Synaraea javana* (syntype) in Gerth (1921c) (RGM 3956, side view)
Fig. 2. *Synaraea javana* (syntype) in Gerth (1921c) (RGM 3956, basal view)
Fig. 3. *Thecosmilia caespitosa var. minor* (holotype) in Vinassa de Regny (1915) (RGM 529799, overview)
Fig. 4. *Thecosmilia caespitosa var. minor* (holotype) in Vinassa de Regny (1915) (RGM 529799, detail)
Fig. 5. *Thecosmilia fenestrata var. multiseptata* (holotype) in Vinassa de Regny (1915) (THDKA 12830, overview)
Fig. 6. *Thecosmilia molengraaffi* (holotype) in Vinassa de Regny (1915) (THDKA 12829, overview)
Fig. 7. *Trachyphyllia crassa* (holotype) in Martin (1880a) (RGM 3828, side view)
Fig. 8. *Trachyphyllia crassa* (holotype) in Martin (1880a) (RGM 3828, top view)
Fig. 9. *Trachyphyllia crassa* (holotype) in Martin (1880a) (RGM 3828, detail)
Fig. 10. *Trachyphyllia crassa* (holotype) in Martin (1880a) (RGM 3828, detail)
Fig. 11. *Trochocyathus laterocristatus* in Felix (1920) (THDKA 15667, side view)
Fig. 12. *Trochocyathus laterocristatus* in Felix (1920) (THDKA 15667, top view)
Fig. 13. *Trochocyathus schmidti* (syntype) in Gerth (1923) (RGM 43023, top view)
Fig. 14. *Trochocyathus schmidti* (syntype) in Gerth (1923) (RGM 43023, side view)
Fig. 15. *Trochocyathus schmidti* (syntype) in Gerth (1923) (RGM 43023, basal view)

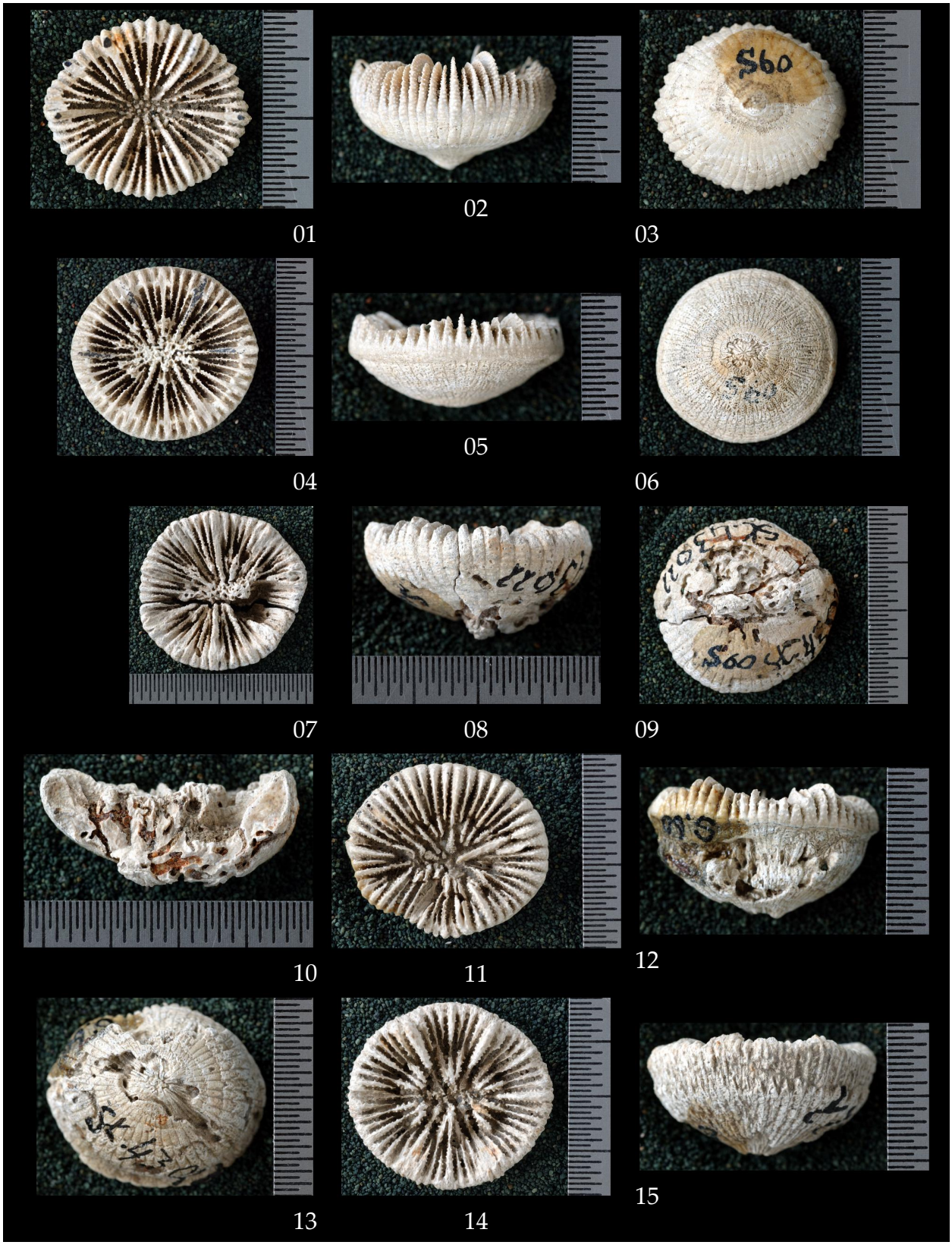
**Plate 92**



# Plate 93

Fig. 1. *Trochocyathus schmidti* (syntype) in Gerth (1923) (RGM 167775, top view)
Fig. 2. *Trochocyathus schmidti* (syntype) in Gerth (1923) (RGM 167775, side view)
Fig. 3. *Trochocyathus schmidti* (syntype) in Gerth (1923) (RGM 167775, basal view)
Fig. 4. *Trochocyathus schmidti* (syntype) in Gerth (1923) (RGM 167776, top view)
Fig. 5. *Trochocyathus schmidti* (syntype) in Gerth (1923) (RGM 167776, side view)
Fig. 6. *Trochocyathus schmidti* (syntype) in Gerth (1923) (RGM 167776, basal view)
Fig. 7. *Trochocyathus schmidti* (syntype) in Gerth (1923) (RGM 525400, top view)
Fig. 8. *Trochocyathus schmidti* (syntype) in Gerth (1923) (RGM 525400, side view)
Fig. 9. *Trochocyathus schmidti* (syntype) in Gerth (1923) (RGM 525400, basal view)
Fig. 10. *Trochocyathus schmidti* (syntype) in Gerth (1923) (RGM 525400, tangential section)
Fig. 11. *Trochocyathus schmidti* (syntype) in Gerth (1923) (RGM 525401, top view)
Fig. 12. *Trochocyathus schmidti* (syntype) in Gerth (1923) (RGM 525401, side view)
Fig. 13. *Trochocyathus schmidti* (syntype) in Gerth (1923) (RGM 525401, basal view)
Fig. 14. *Trochocyathus schmidti* (syntype) in Gerth (1923) (RGM 525402, top view)
Fig. 15. *Trochocyathus schmidti* (syntype) in Gerth (1923) (RGM 525402, side view)

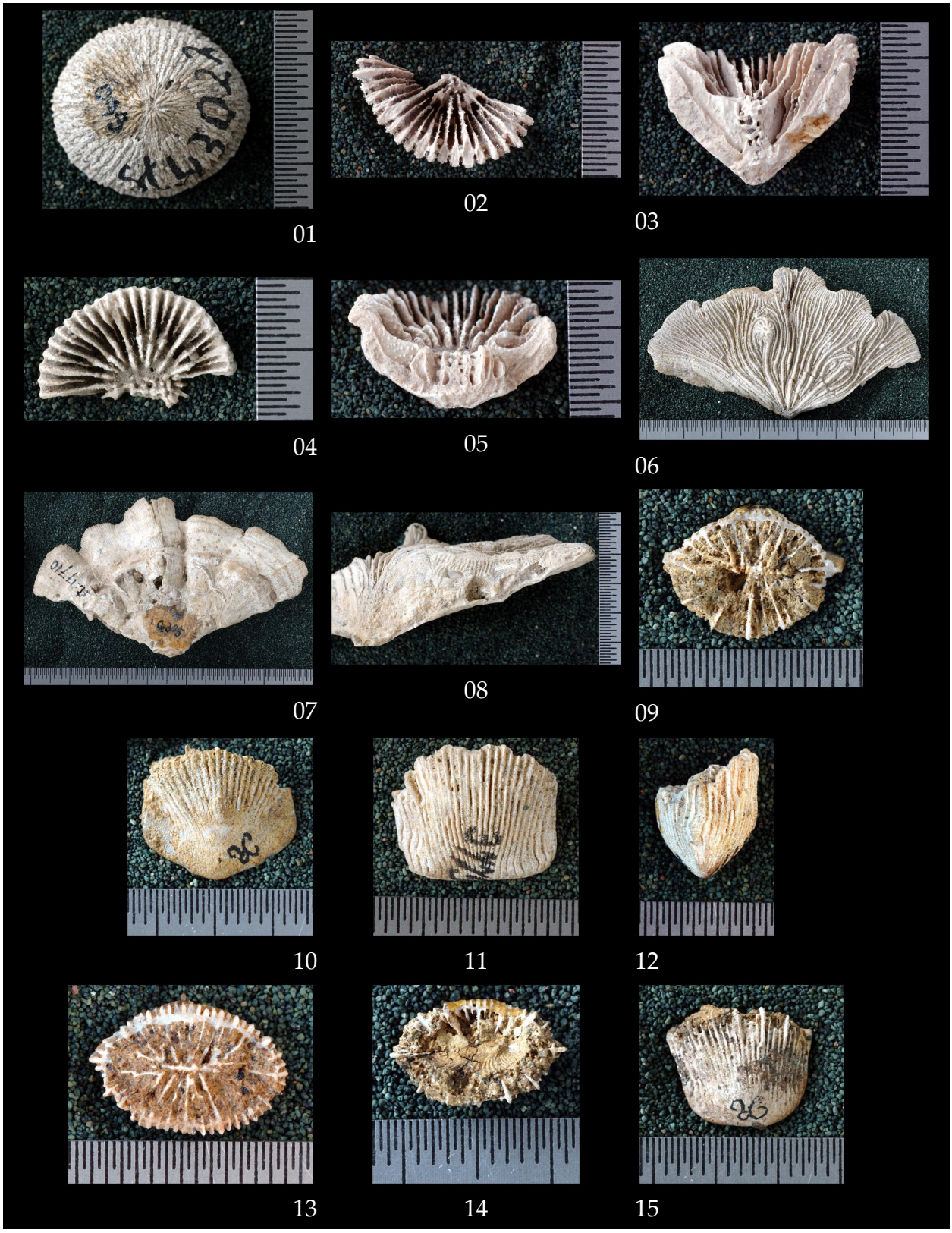
**Plate 93**



# Plate 94

Fig. 1. *Trochocyathus schmidti* (syntype) in Gerth (1923) (RGM 525402, basal view)
Fig. 2. *Trochocyathus schmidti* (syntype) in Gerth (1923) (RGM 525406, top view)
Fig. 3. *Trochocyathus schmidti* (syntype) in Gerth (1923) (RGM 525406, radial section)
Fig. 4. *Trochocyathus schmidti* (syntype) in Gerth (1923) (RGM 525410, top view)
Fig. 5. *Trochocyathus schmidti* (syntype) in Gerth (1923) (RGM 525410, side view)
Fig. 6. *Trochoseris florescens* in Gerth (1923) (RGM 17710, top view)
Fig. 7. *Trochoseris florescens* in Gerth (1923) (RGM 17710, basal view)
Fig. 8. *Trochoseris florescens* in Gerth (1923) (RGM 17710, radial section)
Fig. 9. *Tropidocyathus affinis* (holotype) in Martin (1880a) (RGM 167529, top view)
Fig. 10. *Tropidocyathus affinis* (holotype) in Martin (1880a) (RGM 167529, side view)
Fig. 11. *Tropidocyathus nudus* (syntype) in Martin (1880a) (RGM 3775, side view)
Fig. 12. *Tropidocyathus nudus* (syntype) in Martin (1880a) (RGM 3775, side view)
Fig. 13. *Tropidocyathus nudus* (syntype) in Martin (1880a) (RGM 3775, top view)
Fig. 14. *Tropidocyathus nudus* (syntype) in Martin (1880a) (RGM 167530, top view)
Fig. 15. *Tropidocyathus nudus* (syntype) in Martin (1880a) (RGM 167530, side view)

**Plate 94**



# Plate 95

Fig. 1. *Tropidocyathus nudus* (syntype) in Martin (1880a) (RGM 167531, side view)
Fig. 2. *Tropidocyathus nudus* (syntype) in Martin (1880a) (RGM 525362, side view)
Fig. 3. *Tropidocyathus nudus* (syntype) in Martin (1880a) (RGM 525362, top view)
Fig. 4. *Tropidocyathus nudus* (syntype) in Martin (1880a) (RGM 525363, side view)
Fig. 5. *Tropidocyathus nudus* (syntype) in Martin (1880a) (RGM 525363, basal view)
Fig. 6. *Tropidocyathus nudus* (syntype) in Martin (1880a) (RGM 525364, side view)
Fig. 7. *Tropidocyathus nudus* (syntype) in Martin (1880a) (RGM 525364, basal view)
Fig. 8. *Tropidocyathus nudus* in Gerth (1921c) (RGM 3773, top view)
Fig. 9. *Tropidocyathus nudus* in Gerth (1921c) (RGM 3773, side view)
Fig. 10. *Tropidocyathus nudus* in Gerth (1921c) (RGM 167527, top view)
Fig. 11. *Tropidocyathus nudus* in Gerth (1921c) (RGM 167527, side view)
Fig. 12. *Turbinaria tenuis* in Gerth (1923) (RGM 43001, top view)
Fig. 13. *Turbinaria sp.* in Gerth (1923) (RGM 43004, top view)
Fig. 14. *Turbinaria sp.* in Gerth (1923) (RGM 43004, top view)
Fig. 15. *Aulohelia irregularis* (syntype) in Gerth (1921a), Gerth (1921b) (THDKA 11810, side view)

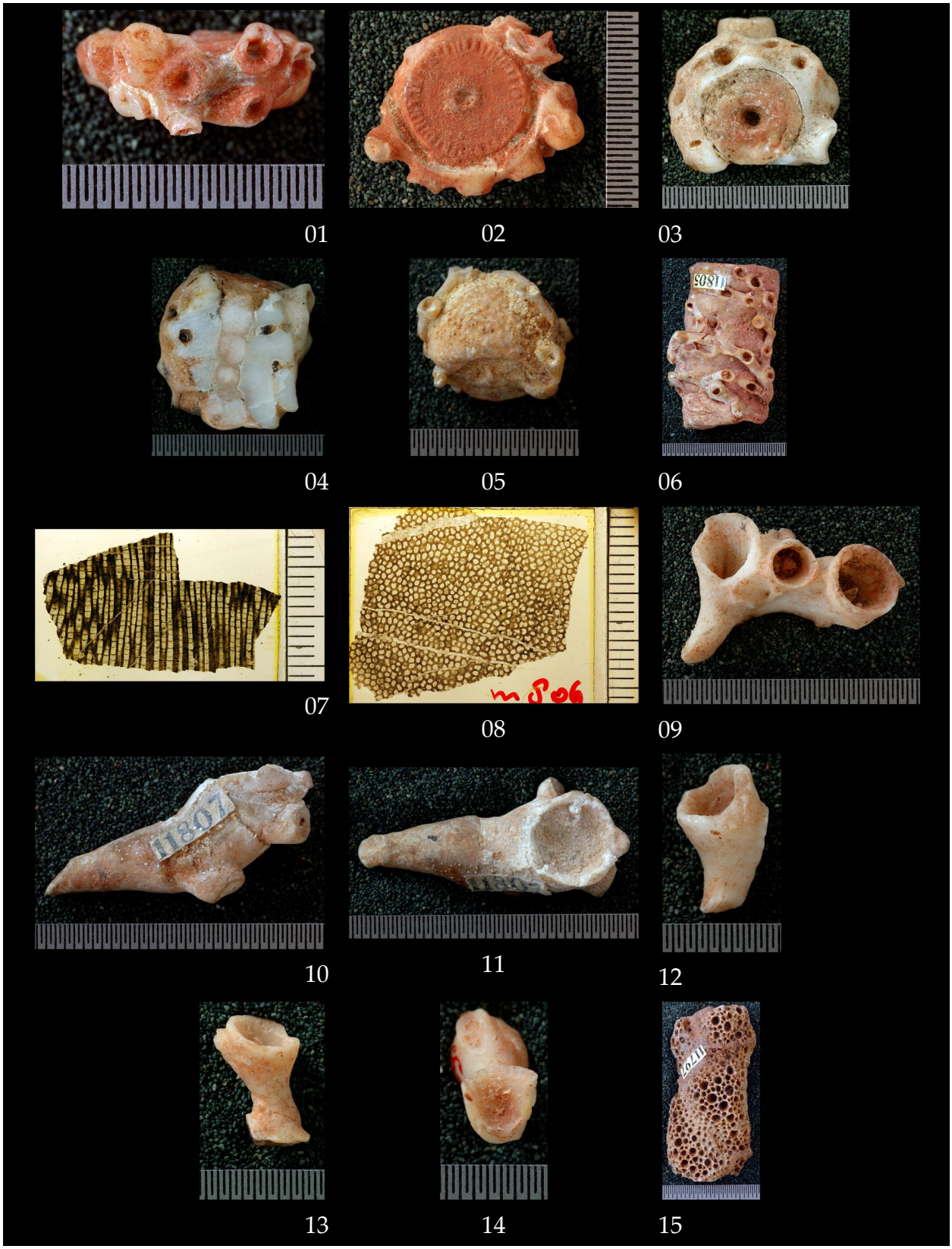
**Plate 95**



# Plate 96

Fig. 1. *Aulohelia irregularis* (syntype) in Gerth (1921a) (THDKA 11809, top view)
Fig. 2. *Aulohelia irregularis* (syntype) in Gerth (1921a) (THDKA 11809, side view)
Fig. 3. *Aulohelia laevis* in Ezzoubaïr (2000) (RGM 532491, top view)
Fig. 4. *Aulohelia laevis* in Ezzoubaïr (2000) (RGM 532491, tangential section)
Fig. 5. *Aulopora timorica* (syntype) in Gerth (1921a) (THDKA 11806, side view)
Fig. 6. *Aulopora timorica* (syntype) in Gerth (1921a) (THDKA 11805, side view)
Fig. 7. *Chaetetes deterrai* (holotype) in Gerth (1938) (RGM 525548, tangential section)
Fig. 8. *Chaetetes deterrai* (holotype) in Gerth (1938) (RGM 525549, transverse section)
Fig. 9. *Cladochonus magnus* (syntype) in Gerth (1921a) (RGM 532148, top view)
Fig. 10. *Cladochonus magnus* (syntype) in Gerth (1921a), Gerth (1921b) (THDKA 11807, side view)
Fig. 11. *Cladochonus magnus* (syntype) in Gerth (1921a), Gerth (1921b) (THDKA 11807, top view)
Fig. 12. *Cladochonus magnus* in Ezzoubaïr (2000) (RGM 532488, side view)
Fig. 13. *Cladochonus magnus* in Ezzoubaïr (2000) (RGM 532489, side view)
Fig. 14. *Cladochonus magnus* in Ezzoubaïr (2000) (RGM 532489, basal view)
Fig. 15. *Favosites permica* (syntype) in Gerth (1921a), Gerth (1921b) (THDKA 11797, side view)

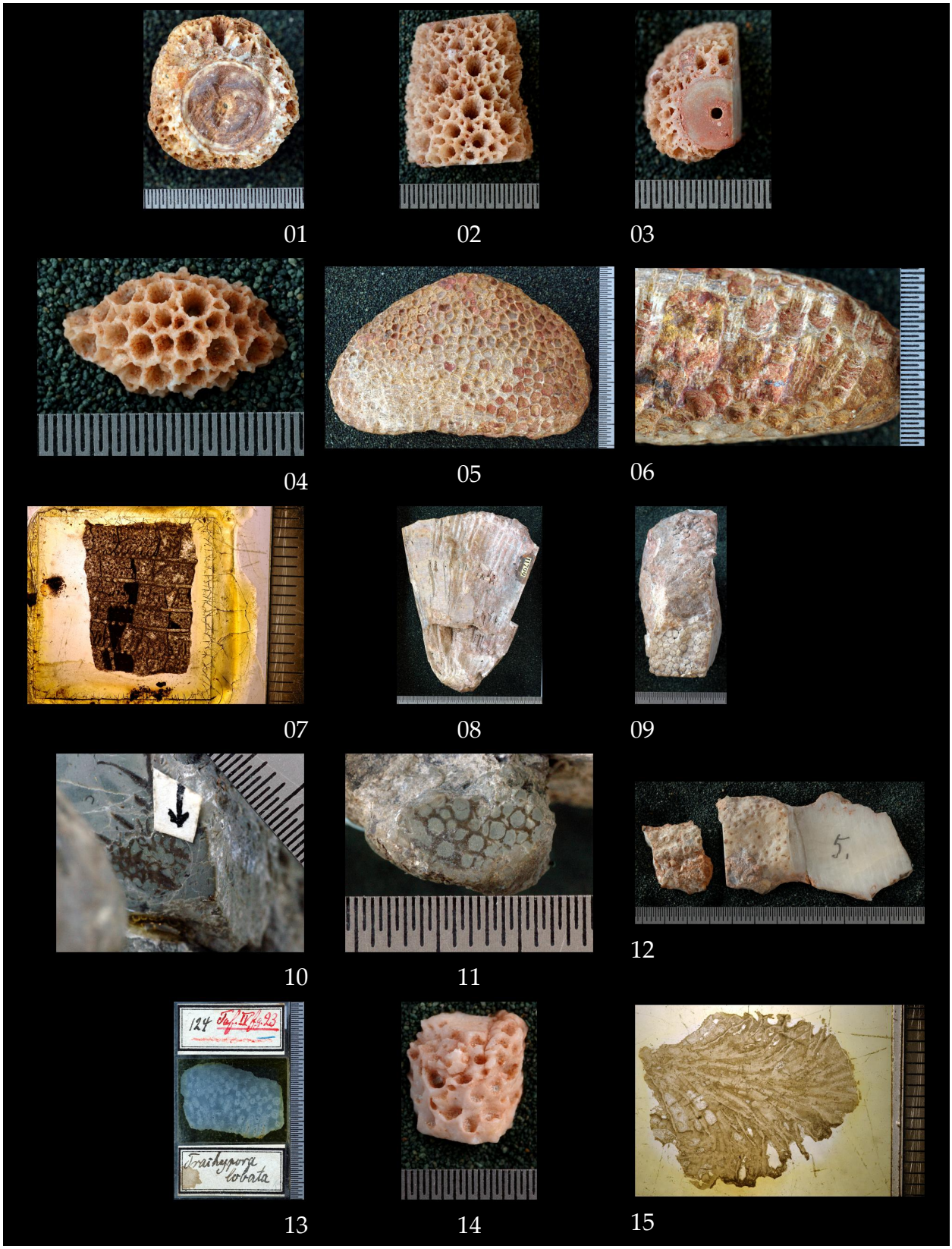
**Plate 96**



# Plate 97

Fig. 1. *Favosites permica* (syntype) in Gerth (1921a), Gerth (1921b) (THDKA 11797, transverse section)
Fig. 2. *Favosites permica* in Ezzoubaïr (2000) (RGM 32790A, side view)
Fig. 3. *Favosites permica* in Ezzoubaïr (2000) (RGM 32790A, radial section)
Fig. 4. *Favosites permica* in Ezzoubaïr (2000) (RGM 32790B, side view)
Fig. 5. *Favosites relicta* (holotype) in Gerth (1921a) (THDKA 11798, top view)
Fig. 6. *Favosites relicta* (holotype) in Gerth (1921a) (THDKA 11798, side view)
Fig. 7. *Favosites sp.* in Gerth (1921a) (RGM 529412, tangential section)
Fig. 8. *Favosites sp.* in Gerth (1921a) (THDKA 11799, side view)
Fig. 9. *Favosites sp.* in Gerth (1921a) (THDKA 11799, top view)
Fig. 10. *Gertholites curvatus* in Visser & Hermes (1962) (RGM 298038a, transverse section)
Fig. 11. *Gertholites curvatus* in Visser & Hermes (1962) (RGM 298039, transverse section)
Fig. 12. *Gertholites lobatus* (syntype) in Gerth (1921a) (RGM 532127, side view)
Fig. 13. *Gertholites lobatus* (syntype) in Gerth (1921a) (RGM 529410, overview)
Fig. 14. *Heterocoenites crassus* in Ezzoubaïr (2000) (RGM 532487, side view)
Fig. 15. *Heterocoenites variabilis* (syntype) in Gerth (1921a) (RGM 529413, tangential section)

**Plate 97**



# Plate 98

Fig. 1. *Heterocoenites variabilis* (syntype) in Gerth (1921a) (RGM 529414, transverse section)
Fig. 2. *Heterocoenites variabilis* (syntype) in Gerth (1921a) (THDKA 11813, side view)
Fig. 3. *Heterocoenites variabilis* (syntype) in Gerth (1921a) (THDKA 11813, transverse section)
Fig. 4. *Lovcenipora chaetetiformis* (syntype) in Vinassa de Regny (1915) (THDKA 12839, detail)
Fig. 5. *Lovcenipora chaetetiformis* (syntype) in Vinassa de Regny (1915) (THDKA 12840, tangential section)
Fig. 6. *Lovcenipora chaetetiformis* (syntype) in Vinassa de Regny (1915) (THDKA 12840, transverse section)
Fig. 7. *Lovcenipora magnopora* (syntype) in Vinassa de Regny (1915) (THDKA 12841, side view)
Fig. 8. *Michelinia indica* in Gerth (1921a) (RGM 529417, transverse section)
Fig. 9. *Michelinia indica* in Gerth (1921a), Gerth (1921b) (THDKA 11803, side view)
Fig. 10. *Michelinia indica* in Gerth (1921a), Gerth (1921b) (THDKA 11803, transverse section)
Fig. 11. *Michelinia indica* in Ezzoubaïr (2000) (RGM 168319, top view)
Fig. 12. *Michelinia indica* in Ezzoubaïr (2000) (RGM 168319, transverse section)
Fig. 13. *Monilopora beecheri* in Gerth (1921a), Gerth (1921b) (THDKA 11808, side view)
Fig. 14. *Pachypora oligopora* (holotype) in Vinassa de Regny (1915) (THDKA 12838, top view)
Fig. 15. *Pachypora oligopora* (holotype) in Vinassa de Regny (1915) (THDKA 12838, transverse section)

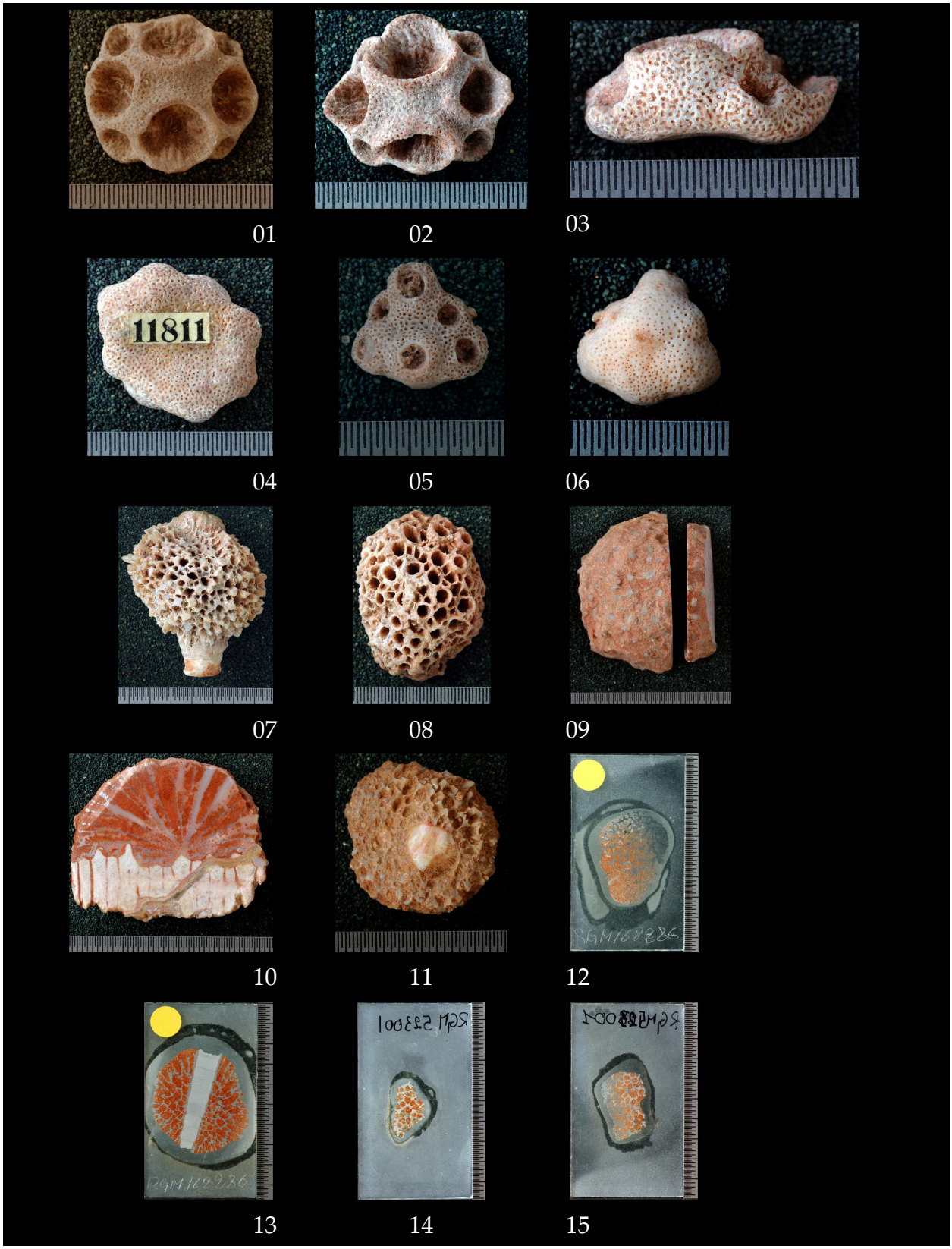
**Plate 98**



# Plate 99

Fig. 1. *Palaeacis regularis* (syntype) in Gerth (1921a) (RGM 529600, top view)
Fig. 2. *Palaeacis regularis* (syntype) in Gerth (1921a), Gerth (1921b) (THDKA 11811, top view)
Fig. 3. *Palaeacis regularis* (syntype) in Gerth (1921a), Gerth (1921b) (THDKA 11811, side view)
Fig. 4. *Palaeacis regularis* (syntype) in Gerth (1921a), Gerth (1921b) (THDKA 11811, basal view)
Fig. 5. *Palaeacis tubifer* (syntype) in Gerth (1921a) (THDKA 11812, top view)
Fig. 6. *Palaeacis tubifer* (syntype) in Gerth (1921a) (THDKA 11812, basal view)
Fig. 7. *Pseudofavosites stylifer* (syntype) in Gerth (1921a), Gerth (1921b) (THDKA 11800, side view)
Fig. 8. *Pseudofavosites stylifer* (syntype) in Gerth (1921a) (THDKA 11801, side view)
Fig. 9. *Pseudofavosites stylifer* in Ezzoubaïr (2000) (RGM 168290, top view)
Fig. 10. *Pseudofavosites stylifer* in Ezzoubaïr (2000) (RGM 168290, radial section)
Fig. 11. *Pseudofavosites stylifer* in Ezzoubaïr (2000) (RGM 168288, basal view)
Fig. 12. *Pseudofavosites stylifer* in Ezzoubaïr (2000) (RGM 532373, overview)
Fig. 13. *Pseudofavosites stylifer* in Ezzoubaïr (2000) (RGM 532374, overview)
Fig. 14. *Pseudofavosites stylifer septosa* in Ezzoubaïr (2000) (RGM 532379, overview)
Fig. 15. *Pseudofavosites stylifer septosa* in Ezzoubaïr (2000) (RGM 532380, overview)

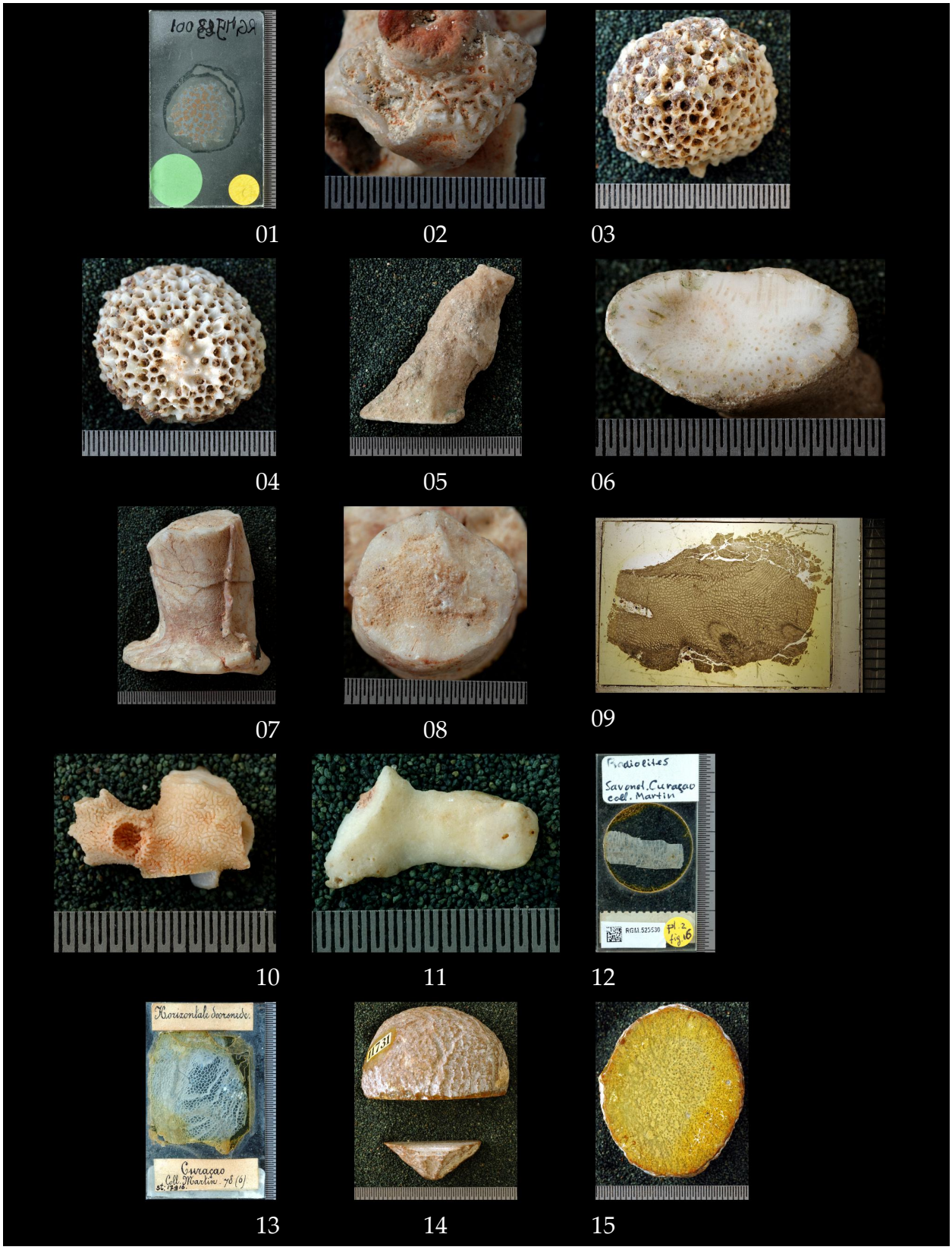
**Plate 99**



# Plate 100

Fig. 1. *Pseudofavosites stylifer septosa* in Ezzoubaïr (2000) (RGM 532381, overview)
Fig. 2. *Schizophorites dubiosus* (syntype) in Gerth (1921a) (THDKA 11808a, side view)
Fig. 3. *Stylonites porosus* (syntype) in Gerth (1921a) (RGM 525697, side view)
Fig. 4. *Stylonites porosus* (syntype) in Gerth (1921a) (RGM 525697, basal view)
Fig. 5. *Trachypsammia dendroides* (syntype) in Gerth (1921a) (RGM 532126, side view)
Fig. 6. *Trachypsammia dendroides* (syntype) in Gerth (1921a) (RGM 532126, transverse section)
Fig. 7. *Trachypsammia dendroides* (syntype) in Gerth (1921a), Gerth (1921b) (THDKA 11804, side view, at right side an Aulopora sp. colony has grown over the stem.)
Fig. 8. *Trachypsammia dendroides* (syntype) in Gerth (1921a), Gerth (1921b) (THDKA 11804, transverse section)
Fig. 9. *Trachypsammia dendroides* (syntype) in Gerth (1921a) (RGM 529411, transverse section)
Fig. 10. *Trachypsammia dendroides* in Ezzoubaïr (2000) (RGM 532493, side view)
Fig. 11. *Trachypsammia dendroides* in Ezzoubaïr (2000) (RGM 532494, side view)
Fig. 12. *Radiolites sp.* in Martin (1888) (RGM 525530, tangential section)
Fig. 13. *Radiolites sp.* in Martin (1888) (RGM 17916, transverse section)
Fig. 14. *Aulacospongia bulbosa* in Gerth (1929), holotype in Gerth (1927d) (THDKA 11731, overview)
Fig. 15. *Aulacospongia bulbosa* in Gerth (1929), holotype in Gerth (1927d) (THDKA 11731, transverse section)

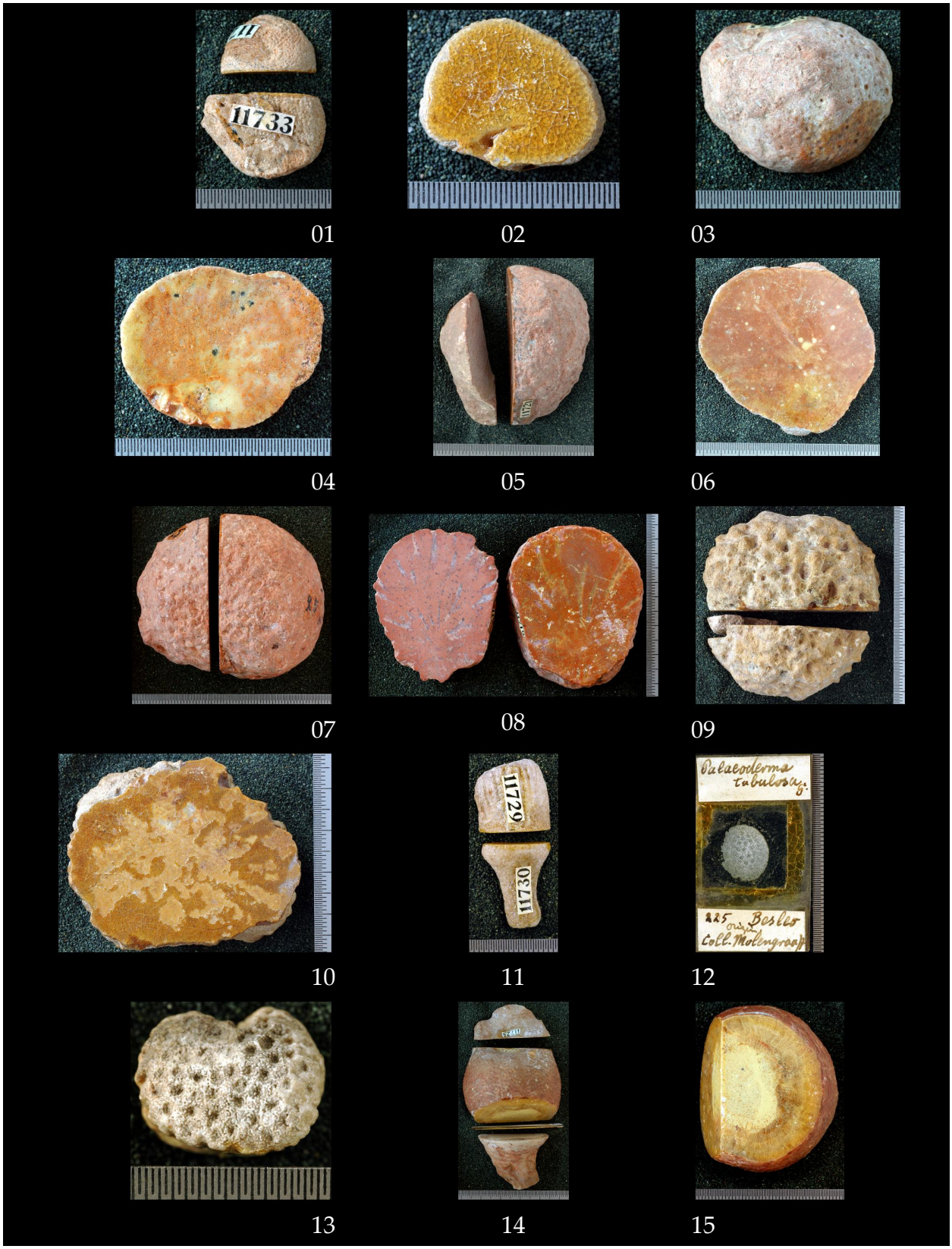
**Plate 100**


01
02
03
04
05
06
07
08
09
10
11
12
Radiolites
Savonel, Curaçao
coll. Martin
RGM.525530
pl. 2
fig 16
13
Horizontale doorsnede.
Curaçao
14
15

# Plate 101

Fig. 1. *Aulacospongia sp.* in Gerth (1929), Gerth (1927d) (THDKA 11733, overview, top part is THDKA 11734.)
Fig. 2. *Aulacospongia sp.* in Gerth (1929), Gerth (1927d) (THDKA 11733, transverse section)
Fig. 3. *Caryospongia? dyadica* in Gerth (1929), holotype in Gerth (1927d) (THDKA 11728, side view)
Fig. 4. *Caryospongia? dyadica* in Gerth (1929), holotype in Gerth (1927d) (THDKA 11728, tangential section)
Fig. 5. *Mastophyma globosa* in Gerth (1929), syntype in Gerth (1927d) (THDKA 11721, side view, left part is THDKA 11722.)
Fig. 6. *Mastophyma globosa* in Gerth (1929), syntype in Gerth (1927d) (THDKA 11721, tangential section)
Fig. 7. *Mastophyma globosa* in Gerth (1929), syntype in Gerth (1927d) (THDKA 11719, side view)
Fig. 8. *Mastophyma globosa* in Gerth (1929), syntype in Gerth (1927d) (THDKA 11719, radial section)
Fig. 9. *Mastophyma jonkeri* in Gerth (1929), holotype in Gerth (1927d) (THDKA 11716, side view, the smallest part ( in the middle) is THDKA 11718, the lower part is THDKA 11717, the top part is THDKA 11716.)
Fig. 10. *Mastophyma jonkeri* in Gerth (1929), holotype in Gerth (1927d) (THDKA 11716, transverse section)
Fig. 11. *Palaeoderma tubulosa* in Gerth (1929), holotype in Gerth (1927d) (THDKA 11729, overview)
Fig. 12. *Palaeoderma tubulosa* in Gerth (1929), holotype in Gerth (1927d) (THDKA 11729, transverse section)
Fig. 13. *Palaeoderma tubulosa* in Gerth (1929), holotype in Gerth (1927d) (THDKA 11729, top view)
Fig. 14. *Palaeojerea molengraaffi* in Gerth (1929), holotype in Gerth (1927d) (THDKA 11723, side view)
Fig. 15. *Palaeojerea molengraaffi* in Gerth (1929), holotype in Gerth (1927d) (THDKA 11723, transverse section)

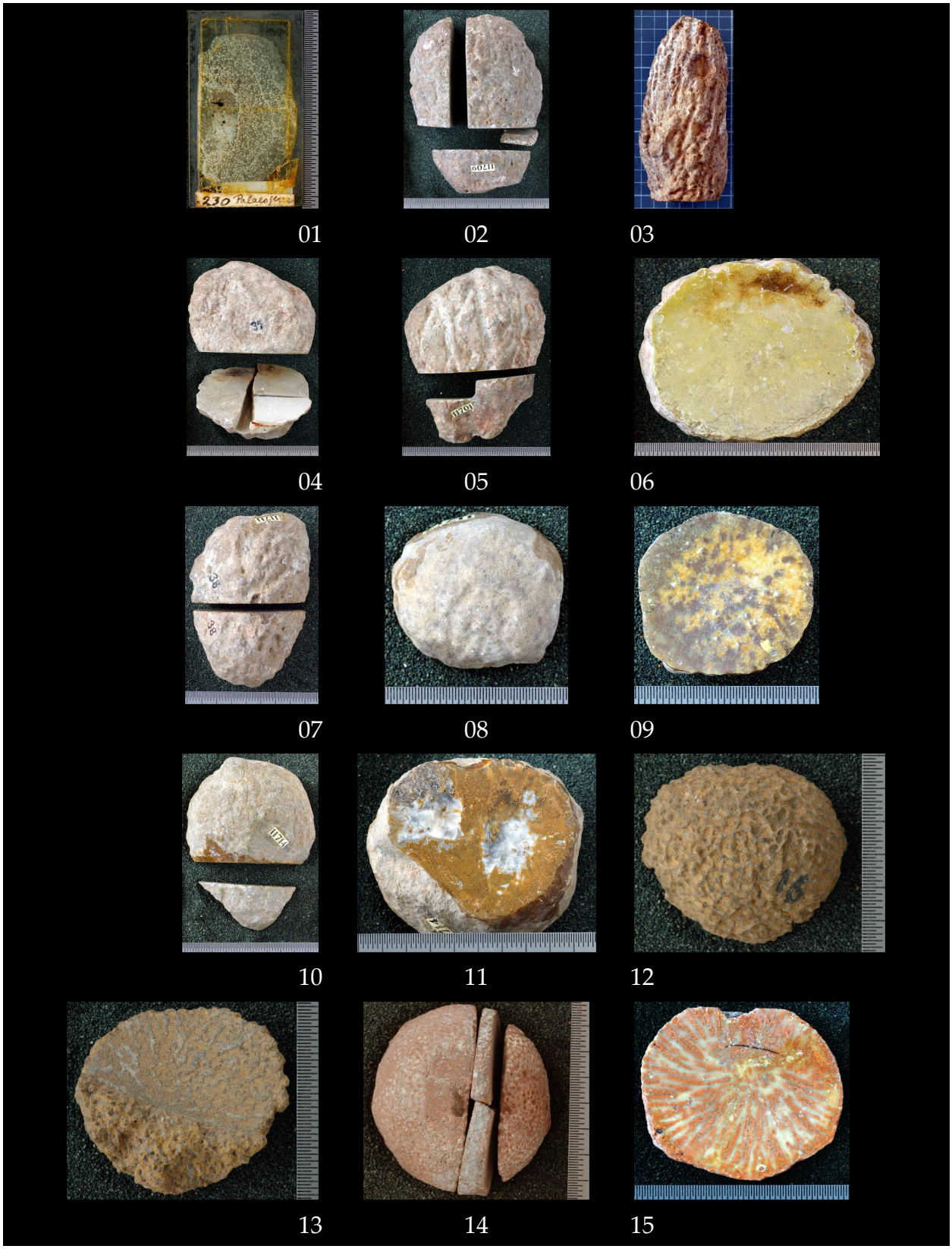
**Plate 101**


11733
01
02
03
04
05
06
07
08
09
11729
11730
Palaeoderma tubulosa
Besler
Coll. Molengraaf
10
11
12
13
14
15

# Plate 102

Fig. 1. *Palaeojerea molengraaffi* (holotype) in Gerth (1927d) (RGM 532152, overview)
Fig. 2. *Palaeophyma claviger* in Gerth (1929), holotype in Gerth (1927d) (THDKA 11707, side view)
Fig. 3. *Palaeophyma cucumeriformis* in Gerth (1929), holotype in Gerth (1927d) (THDKA 11704, side view)
Fig. 4. *Palaeophyma piriformis* in Gerth (1929), holotype in Gerth (1927d) (THDKA 11700, overview)
Fig. 5. *Palaeophyma piriformis* in Gerth (1929), holotype in Gerth (1927d) (THDKA 11700, side view)
Fig. 6. *Palaeophyma piriformis* in Gerth (1929), holotype in Gerth (1927d) (THDKA 11700, transverse section)
Fig. 7. *Palaeophyma sp.* in Gerth (1929), Gerth (1927d) (THDKA 11711, side view)
Fig. 8. *Palaeophyma sp.* in Gerth (1929), Gerth (1927d) (THDKA 11712, top view)
Fig. 9. *Palaeophyma sp.* in Gerth (1929), Gerth (1927d) (THDKA 11712, transverse section)
Fig. 10. *Palaeophyma sp.* in Gerth (1929), Gerth (1927d) (THDKA 11714, overview, lower part is THDKA 11715.)
Fig. 11. *Palaeophyma sp.* in Gerth (1929), Gerth (1927d) (THDKA 11714, transverse section)
Fig. 12. *Pemmatites timorensis* (syntype) in Gerth (1927d) (RGM 529391, side view)
Fig. 13. *Pemmatites timorensis* (syntype) in Gerth (1927d) (RGM 529391, transverse section)
Fig. 14. *Pemmatites timorensis* (syntype) in Gerth (1927d) (RGM 529392, top view)
Fig. 15. *Pemmatites timorensis* (syntype) in Gerth (1927d) (RGM 529392, radial section)

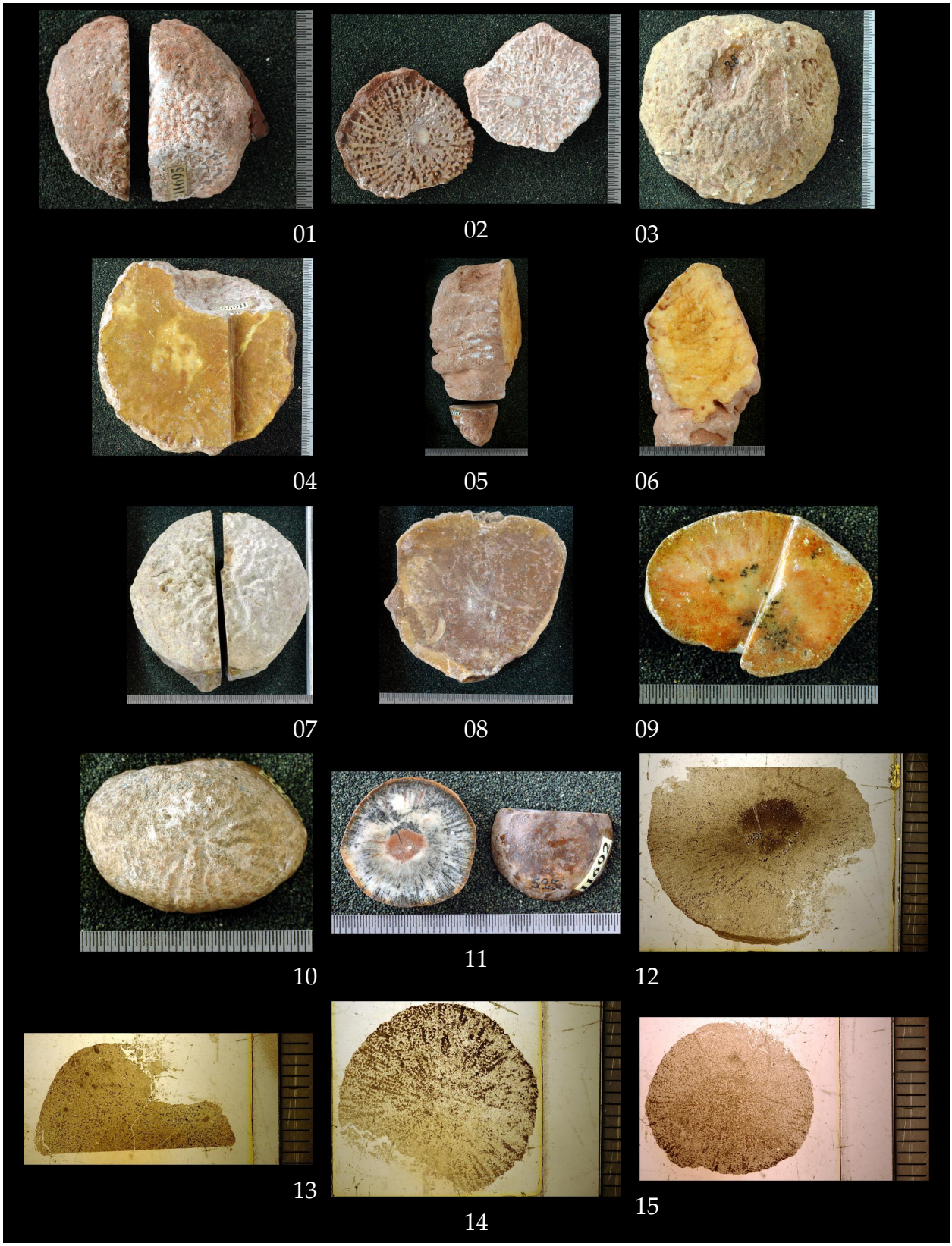
**Plate 102**



# Plate 103

Fig. 1. *Pemmatites timorensis* in Gerth (1929), syntype in Gerth (1927d) (THDKA 11695, top view)
Fig. 2. *Pemmatites timorensis* in Gerth (1929), syntype in Gerth (1927d) (THDKA 11695, radial section)
Fig. 3. *Phacellopegma praemorsa* in Gerth (1929), holotype in Gerth (1927d) (THDKA 11699, side view)
Fig. 4. *Phacellopegma praemorsa* in Gerth (1929), holotype in Gerth (1927d) (THDKA 11699, tangential section)
Fig. 5. *Pycnospongia timorensis* (holotype) in Gerth (1927d) (THDKA 11726, side view)
Fig. 6. *Pycnospongia timorensis* (holotype) in Gerth (1927d) (THDKA 11726, tangential section)
Fig. 7. *Timorella permica* (holotype) in Gerth (1909) (THDKA 2638, top view)
Fig. 8. *Timorella permica* (holotype) in Gerth (1909) (THDKA 2638, radial section)
Fig. 9. *Timorella sp.* in Gerth (1929), Gerth (1927d) (THDKA 11735, transverse section)
Fig. 10. *Timorella sp.* in Gerth (1929), Gerth (1927d) (THDKA 11735, top view)
Fig. 11. *Hindia permica* in Gerth (1929), syntype in Gerth (1927d) (THDKA 11691, overview)
Fig. 12. *Hindia permica* (syntype) in Gerth (1927d) (RGM 529418, transverse section)
Fig. 13. *Hindia permica* (syntype) in Gerth (1927d) (RGM 529419, transverse section)
Fig. 14. *Hindia permica* (syntype) in Gerth (1927d) (RGM 529420, transverse section)
Fig. 15. *Hindia permica* (syntype) in Gerth (1927d) (RGM 529421, transverse section)

**Plate 103**



# Plate 104

Fig. 1. *Archaeolithothamnium curasavicum* (syntype) in Martin (1888) (RGM 525531, tangential section)
Fig. 2. *Archaeolithothamnium curasavicum* in Konijnenburg-van Cittert et al. (2004), syntype in Martin (1888) (RGM 17913, transverse section)

**Plate 104**




1 2