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## National Museum of Natural History Naturalis, Leiden

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# NNM Technical Bulletin

Jacob Leloux & Willem Renema

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

November 2007

**Jacob Leloux & Willem Renema**

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Jacob Leloux & Willem Renema

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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.

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## 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 inaccessible, 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 additions. 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 localities 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 photographed.

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 University of Bonn (Germany). His first job brought him to the Mining Department in Buenos Aires (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<sup>th</sup> Panpacific Science Conference in Bandung in 1929. Gerth did some additional collecting in nearby Javanese localities himself. In 1930 he moved to the University 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<sup>th</sup>, 1899 - Delft, July, 14<sup>th</sup>, 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-Wilhelms-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, n<sup>o</sup> 4820,  
Afdeling H. O.

J. J. N<sup>o</sup> 21.

De Minister van  
Onderwijs, Kunst en Wetenschappen,  
Beleef op artikel 97 der Burger-Ordonnantie,  
Gzien het bericht van Curatoren der Rijks-  
Universiteit te Leiden, van 18 December 1919, n<sup>o</sup> 1528;  
Heeft goedgevonden:  
Voor het tijdvak van 1 Januari tot en met 31 Decem-  
ber 1920 te benoemen tot conservator bij het Geo-  
logisch- Mineralogisch Museum aan de Rijksuni-  
versiteit te Leiden:

Dr. H. Gerth, te Bonn  
op een jaarswage van tweehonderd zeshonderd gul-  
den (ƒ 2600).  
Afschrift daarvan zal worden gezonden aan de  
Algemene Rekenkamer, aan den Burgerlijken  
Raad in duplo en aan Curatoren der Rijks-  
universiteit, verzoend.

te Groningen, 27 December 1919.  
Overeenkomstig de geparafeerde minuut,  
De Secretaris-Generaal,  
(get.) C. Beeth.

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

Boddaert

Den Heer Hoogleraar, directeur  
van de 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) (textfig. 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 "aplanata". 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 coralloides* (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 **Bitauuni** 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 **Bitauuni** 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* (Rothplaez 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 Rothpletzi* 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. *zaphrentoides*. (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 Ammonitellimestone 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 wan-neri*, 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) (text-fig. 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) timorensis 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) timorensis* (Gerth, 1919)

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

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

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

*Pentaphyllum (Tachylasma) timorensis* 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 **Bitauuni** (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) timorensis* var. *calyculat*  
**Koker, 1924**

*Plerophyllum timorensis 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) timorensis* var. *cylindric*  
**Koker, 1924**

*Plerophyllum timorensis 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) timorensis* var. *irregular*  
**Koker, 1924**

*Plerophyllum timorensis 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) timorensis typicum* **Koker, 1924**

*Plerophyllum timorensis 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 **Bitauuni**, 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 **Bitauuni** (73 specimens RGM.529632-529637, RGM.529639-529662, RGM.529664-529706).

Remarks: **Koker (1924)** studied 25 specimens from **Basleo** and 45 from **Bitauuni**. 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 radiceforme* **Gerth, 1919**

*Plerophyllum radiceforme* nov. sp — **Gerth, 1919**: 204, fig. 4  
*Plerophyllum radiceforme* spec. nov — **Gerth, 1921a**: 92-93, textfig. 8, pl. 146 fig. 15-18; **Gerth, 1921b**: 8  
*Timorosmia radiceforme* (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 *Timorosmia radiceforme* (**Gerth, 1919**) sensu **Koker (1924)** as a different species from *Plerophyllum radiceforme* and named it *Ufimia radiceformis*.

*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 **Bitauuni** and one from **Nefotassi**. Specimen RGM.529526 is lost since before September 17<sup>th</sup>, 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 Bitauani. 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 Bitauani collected by Molengraaff during the 1911 Timor expedition (24 specimens RGM.532102-532125), of Mandeo (2 specimens RGM.529911-529912).

Remarks: Typespecimens from near **Bitau**, near **Basleo**, from **Noil Asi** (No. 554) and from the surroundings of **Baug** 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**, **Bitau**, **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 radiceformis* Niermann, 1975

*Timorosmilium* (gen. nov.) *radiceforme* — Koker, 1924: 30-31, 41, text-fig. 24

*Ufimia radiceformis* (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 *Timorosmilium radiceforme* (Gerth (1919)) sensu Koker (1924) as a distinct species from *Plerophyllum radiceforme* and named it *Ufimia radiceformis*. 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 radiceformis defecta* Niermann, 1975

*Ufimia radiceformis 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 radiceformis radiceformis* (Koker, 1924)

*Ufimia radiceformis radiceformis* (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. 1 fig. 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

*Wannerophyllum 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 Bitauuni (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 Bitauuni 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

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

Holotype from the Upper Permian-Lower Triassic: White Ammonitellimestone 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 Spolung 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, 28<sup>th</sup>, 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, 28<sup>th</sup>, 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 Fennemai* 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 Gelingsih** 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 Gelingsih** 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  
*Antillophyllia* 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, 25<sup>th</sup>, 1999. Only its box and label 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. 1 fig. 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. 1 fig. 2 in Gerth, 1933) [pl. 31 fig. 10 and pl. 31 fig. 11]).

Remarks: According to Gerth (1933) *Bathyactis eocaenica* used *Discocyclus dispersa* 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)

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

*Confusastraea 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 **Kampung 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

*Convexastrea 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: "*Convexastrea*", 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

*Cyathophora 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 Gelingsih** 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)

*Cyphastraea 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 incorrectly 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 Gelingsih** 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 Cilitung 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

*Diploastrea heliopora* (Lmk.) var. *borneensis* 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 *Diplohelium* Milne Edwards & Haime, 1850a

*Diplohelium complanata* Gerth, 1923

*Diplohelium complanata* spec. nov. — Gerth, 1923: 100, pl. 7 fig. 10-11

*Diplohelium 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]).

*Diplohelium malayica* Gerth, 1921c

*Diplohelium malayica* spec. nov. — Gerth, 1921c: 421-422

*Diplohelium 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, 9<sup>th</sup>, 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 Sekaming**, 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 variabile* 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* Semp, 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* (*Cycloseris*) *decipiens* Mart — Gerth, 1925: 34, 24

*Fungia* (*Cycloseris*) *decipiens* Mart. (*Cycloseris nicaeensis* Reuss) — Gerth, 1925: 63

*Fungia* (*Cycloseris*) *decipiens* Mart. (*Cycloseris nicaeensis* 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 inaequicostata* 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*) *pseudoechinata* 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

*Goniastrea 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

*Goniastrea progoensis* spec. nov. — Gerth, 1921c: 413-414, pl. 56 fig. 1

*Goniastrea progoensis* Gerth — Gerth, 1925: 57; Gerth, 1931a: 134

*Goniastrea progoensis* 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

*Goniastrea 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 *Gyrosmlia* Milne Edwards & Haime, 1851b  
*Gyrosmlia diadema* Umbgrove, 1950

*Gyrosmlia 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

*Doederleinia 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 aequicostatus* — Milne Edwards & Haime, 1848a: 324, pl. 10 fig. 8

*Heterocyathus aequicostatus* — 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 philippinensis*, *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

*Heterocyathus 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: Cilang Formation at Ciburial collected by K. Martin & Icke June, 5<sup>th</sup> (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 Rousseanus* — 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: Cilang 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 Cilang 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 **Kampung 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

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

Syntype from the Callovian along Rapalacatan-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 *Multicolumnastra* Vaughan, 1899

*Multicolumnastra parvula* Gerth, 1928

*Multicolumnastra 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* cf. *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 cyclommatus* Felix, 1921

*Orbicella cyclommatus* 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 (Heliastrea) felixi* Gerth — Gerth, 1925: 60

*Orbicella (Heliastrea) 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)

*Heliastrea irregularis* nov. spec. — Martin, 1880a: 141, pl. 25 fig. 1, pl. 26 fig. 5

*Orbicella irregularis* (Mart.) — Gerth, 1923: 82-83

*Orbicella (Heliastrea) irregularis* Mart — Gerth, 1925: 60

*Orbicella (Heliastrea) irregularis* Mart — Gerth, 1931a: 137, 148

Holotype from the Upper Miocene-Pliocene locality "Junguhn O" collected by Junguhn (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)

*Heliastrea 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 (Heliastrea) tabulata* Mart — Gerth, 1925: 60

*Orbicella (Heliastrea) 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' Achardi, 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 "Jungluhn P" collected by Jungluhn (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 Sol-oriver 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, 20<sup>th</sup> (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, 19<sup>th</sup> (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, 20<sup>th</sup> (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

*Phloeocyathus 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 panovani* **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*)

*Oulophyllia angusta* spec. nov. — **Gerth, 1925**: 28, 24, 55, pl. 5 fig. 7

*Oulophyllia 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 valley side of the Noil Fatu along path between **Nèke** and **Niki Niki** collected by Molen-graaff (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 *Progyrosmilium* Wells, 1937  
*Progyrosmilium regularis* Umbgrove, 1950

*Progyrosmilium 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]).

*Progyrosmilium 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

*Progyrosmilium* (?) *vacua* Gerth — Umbgrove, 1939: 63, fig. 10-11

Syntype from the Upper Miocene: Upper Balikpapan layers along the Sungai Gelingsih 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 Gelingsih 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 semarangensis* 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 Ponjangan** 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 Kalembandong** 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: corallbreccia in West Progo Beds near **Kembang Sokkoh** collected by K. Martin & Icke June, 25<sup>th</sup> (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, 24<sup>th</sup> (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 vanderwerkeri* (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. nov — 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 *Stylophylloopsis* Frech, 1890

*Stylophylloopsis timoricus* Vinassa de Regny, 1915

*Stylophylloopsis 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: Cilang Formation of **Tjelak** collected by K. Martin & Icke (specimen RGM.3954 [pl. 91 fig. 9 and pl. 91 fig. 10]); Nyalindung 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 — **Ezzoubair, 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 **Ezzoubair, 2000**), RGM.532365 (text-fig. V-10-1, pl. 1 fig. 6, pl. 24 (?) in **Ezzoubair, 2000**), RGM.532366 (text-fig. V-10-1, pl. 1 fig. 6, pl. 24 (?) in **Ezzoubair, 2000**), RGM.532367 (text-fig. V-10-1, pl. 1 fig. 6, pl. 24 (?) in **Ezzoubair, 2000**), RGM.532368 (text-fig. V-10-1, pl. 1 fig. 6, pl. 24 (?) in **Ezzoubair, 2000**), RGM.532369 (text-fig. V-10-1, pl. 1 fig. 6, pl. 24 (?) in **Ezzoubair, 2000**), RGM.532370 (text-fig. V-10-1, pl. 1 fig. 6, pl. 24 (?) in **Ezzoubair, 2000**), RGM.532371 (text-fig. V-10-1, pl. 1 fig. 6, pl. 24 (?) in **Ezzoubair, 2000**), RGM.532372 (text-fig. V-10-1, pl. 1 fig. 6, pl. 24 (?) in **Ezzoubair, 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)**. **Ezzoubair (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 — **Ezzoubair, 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 **Ezzoubair, 2000**) [pl. 96 fig. 3 and pl. 96 fig. 4], 2 thin sections RGM.532180 (pl. 25 fig. 3-8 (?) in **Ezzoubair, 2000**), RGM.532363 (pl. 25 fig. 3-8 (?) in **Ezzoubair, 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 — **Ezzoubair, 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 **Ezzoubair, 2000**), RGM.532424 (pl. 26, 27 in **Ezzoubair, 2000**), RGM.532425 (pl. 26, 27 in **Ezzoubair, 2000**)).

Remarks: **Gerth (1921a)** studied eight specimens from **Basleo**, stored both at NNM and IPB, one specimen from **Bitauani** 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* **Ezzoubair, 2000**

*Cladochonus crassus* — **Ezzoubair, 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 — Ezzoubair, 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 Ezzoubair, 2000) [pl. 96 fig. 12], RGM.532489 (text-fig. V-12-1 middle and bottom right in Ezzoubair, 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 Ezzoubair, 2000), RGM.532176 (text-fig. V-12-2A-D, pl. 28 fig. 2-8, pl. 29 in Ezzoubair, 2000), RGM.532177 (text-fig. V-12-2A-D, pl. 28 fig. 2-8, pl. 29 in Ezzoubair, 2000), RGM.532178 (text-fig. V-12-2A-D, pl. 28 fig. 2-8, pl. 29 in Ezzoubair, 2000), RGM.532179 (text-fig. V-12-2A-D, pl. 28 fig. 2-8, pl. 29 in Ezzoubair, 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

*Dictyopora 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 — Ezzoubair, 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 Ezzoubair, 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 Ezzoubair, 2000) [pl. 97 fig. 4], 7 thin sections RGM.532477-532479 (text-fig. V-3-1B in Ezzoubair, 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 relictica* Gerth, 1921a

*Favosites relictica* spec. nov. — Gerth, 1921a: 100, pl. 146 fig. 25, pl. 149 fig. 4

*Favosites relictica* 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 relictica*, 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 — Ezzoubair, 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 Ezzoubair, 2000), RGM.532420 (text-fig. V-6-1, 2, 3, pl. 10 in Ezzoubair, 2000), RGM.532421 (text-fig. V-6-1, 2, 3, pl. 10 in Ezzoubair, 2000), RGM.532422 (text-fig. V-6-1, 2, 3, pl. 10 in Ezzoubair, 2000), RGM.532433 (text-fig. V-6-1, 2, 3, pl. 10 in Ezzoubair, 2000), RGM.532434 (text-fig. V-6-1, 2, 3, pl. 10 in Ezzoubair, 2000), RGM.532435 (text-fig. V-6-1, 2, 3, pl. 10 in Ezzoubair, 2000), RGM.532436 (text-fig. V-6-1, 2, 3, pl. 10 in Ezzoubair, 2000), RGM.532437 (text-fig. V-6-1 in Ezzoubair, 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 — Ezzoubair, 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 Ezzoubair, 2000), RGM.532439 (pl. 14-15 (not sure which figure?) in Ezzoubair, 2000), RGM.532440 (pl. 14-15 (not sure which figure?) in Ezzoubair, 2000), RGM.532441 (pl. 14-15 (not sure which figure?) in Ezzoubair, 2000), RGM.532442 (pl.

14-15 (not sure which figure?) in Ezzoubair, 2000), RGM.532443 (pl. 14-15 (not sure which figure?) in Ezzoubair, 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 — Ezzoubair, 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 Ezzoubair, 2000), RGM.523009 (text-fig. V-6-6, pl. 12 fig. 4-5, pl. 13? in Ezzoubair, 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. Ezzoubair, 2000

*Pachypora Jabiensis* W. u. W — Gerth, 1921a: 105-107, pl. 148 fig. 11-14

*Gertholites jabiensis* Gerth 1921 — Ezzoubair, 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 Ezzoubair, 2000), 3 thin sections RGM.532450 (text-fig. V-6-3A in Ezzoubair, 2000), RGM.532451 (text-fig. V-6-3B in Ezzoubair, 2000), RGM.532452 (text-fig. V-6-4?, pl. 11 fig. 3-4, (5-8?) in Ezzoubair, 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 Ezzoubair (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 explicitly 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 — Ezzoubair, 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 Ezzoubair, 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 — Ezzoubair, 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 Ezzoubair, 2000), 5 specimens RGM.168315a (text-fig. V-7-1B, pl. 16 fig. 4 in Ezzoubair, 2000), RGM.168315b, RGM.168315c, RGM.168315d, RGM.168315e, 15 thin sections RGM.532151 (pl. 16 fit. 4 in Ezzoubair, 2000), RGM.532153-532154 (text-fig. V-7-1B in Ezzoubair, 2000), RGM.532155 (pl. 16 fit. 4 in Ezzoubair, 2000), RGM.532156 (text-fig. V-7-1C in Ezzoubair, 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 — Ezzoubair, 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 Ezzoubair, 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 Ezzoubair, 2000), RGM.532390 (pl. 1 fig. 3-5, pl. 8 fig. 4-8 (?) in Ezzoubair, 2000), RGM.532391 (pl. 1 fig. 3-5, pl. 8 fig. 4-8 in Ezzoubair, 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 — [Ezzoubair, 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 [Ezzoubair, 2000](#)), RGM.532395 (text-fig. V-9-1, pl. 22 in [Ezzoubair, 2000](#)), RGM.532396 (text-fig. V-9-1, pl. 22 in [Ezzoubair, 2000](#)), RGM.532397 (text-fig. V-9-1, pl. 22 in [Ezzoubair, 2000](#)), RGM.532398 (text-fig. V-9-1, pl. 22 in [Ezzoubair, 2000](#)), RGM.532399 (text-fig. V-9-1, pl. 22 in [Ezzoubair, 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 — [Ezzoubair, 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 [Ezzoubair, 2000](#)), RGM.532401 (text-fig. V-9-2, pl. 23. in [Ezzoubair, 2000](#)), RGM.532402 (text-fig. V-9-2, pl. 23. in [Ezzoubair, 2000](#)), RGM.532403 (text-fig. V-9-2, pl. 23. in [Ezzoubair, 2000](#)), RGM.532404 (text-fig. V-9-2, pl. 23. in [Ezzoubair, 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 — [Ezzoubair, 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 [Ezzoubair, 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 [Ezzoubair, 2000](#)), RGM.532377 (pl. 3 fig. 3-8? in [Ezzoubair, 2000](#)), RGM.532378 (text-fig. V-2-2, (pl. 3 fig. 3-8?) in [Ezzoubair, 2000](#))), near **Netu Pantukak** collected during the Snellius expedition (specimen

RGM.168288 (pl. 2 fig. 6-7 in [Ezzoubair, 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 [Ezzoubair, 2000](#))), near [Tubu Lopo](#) collected during the Snellius expedition (3 thin sections RGM.532373 (pl. 2 fig. 1-3, pl. 4 fig. 2 (?) in [Ezzoubair, 2000](#)) [pl. 99 fig. 12], RGM.532374 (pl. 2 fig. 1-3, pl. 4 fig. 2 (?) in [Ezzoubair, 2000](#)) [pl. 99 fig. 13], RGM.532375 (pl. 2 fig. 1-3, pl. 4 fig. 2 (?) in [Ezzoubair, 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 [Bitauini](#). 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](#) — [Ezzoubair, 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 [Ezzoubair, 2000](#)), 5 thin sections RGM.532379 (pl. 5 (?) in [Ezzoubair, 2000](#)) [pl. 99 fig. 14], RGM.532380 (pl. 5 (?) in [Ezzoubair, 2000](#)) [pl. 99 fig. 15], RGM.532381 (pl. 5 fig. 4 in [Ezzoubair, 2000](#)) [pl. 100 fig. 1], RGM.532382-532383 (text-fig. V-2-7A in [Ezzoubair, 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](#) — [Ezzoubair, 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 [Ezzoubair, 2000](#)), RGM.532427 (text-fig. V-5-1, pl. 9 in [Ezzoubair, 2000](#)), RGM.532428 (text-fig. V-5-1, pl. 9 in [Ezzoubair, 2000](#)),

RGM.532429 (text-fig. V-5-1, pl. 9 in [Ezzoubair, 2000](#)), RGM.532430 (text-fig. V-5-1, pl. 9 in [Ezzoubair, 2000](#))).

Remarks: [Gerth \(1921a\)](#) studied nine specimens from [Basleo](#) (stored at IPB and NNM). At the bottom of the *Monilopora becheri* 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](#) — [Ezzoubair, 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 [Bitauini](#) (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 [Ezzoubair, 2000](#)), RGM.168329c, RGM.532493 (pl. 18 fig. 5-6, pl. 20 fig. 7-9 in

Ezzoubair, 2000) [pl. 100 fig. 10], RGM.532494 (pl. 18 fig. 2 in Ezzoubair, 2000) [pl. 100 fig. 11]), of *Nifur Muti* collected during the Snellius expedition (specimen RGM.532492 (pl. 18 fig. 1 in Ezzoubair, 2000), 3 thin sections RGM.532455 ((?) text-fig. V-8-1 till 7, pl. 19 fig. 1-4 in Ezzoubair, 2000), RGM.532456 ((?) text-fig. V-8-1 till 7, pl. 19 fig. 1-4 in Ezzoubair, 2000), RGM.532457 ((?) text-fig. V-8-1 till 7, pl. 19 fig. 1-4 in Ezzoubair, 2000)).

Remarks: Gerth (1921a) studied a lot of specimens from Basleo and from Bitauini. 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 Ezzoubair (2000) illustrates a specimen that is supposed to be stored in Amsterdam. The specimens of IPB Gerth 43a-c are from Basleo and Bitauini. Specimen RGM.532493 was numbered as RGM.168329B in Ezzoubair (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 Pitjís 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 rosaceus* 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 annotation 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: T**Gerth (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 Kampmeiner (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 Mijneuzen)", 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. Therefore 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 granulatus* Herklots, 1854  
*Pericosmus asperulatus* Herklots, 1854 (junior  
 synonym of *Pericosmus granulatus*)

*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 granulatus*)

*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 Mijneezen (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 (speci-  
 men RGM.4223 (pl. 1 fig. 6-6a in Herklots, 1854)).

Remarks: Martin (1880b) synonymised *Scutella*  
*decagona*, *Echinodiscus angulosus* and *Laganum rotun-*  
*dum* with *Peronella decagonalis*. He regarded *Laganum*  
*tenuatum* as probably distinct and too badly pre-  
 served 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 Tegalsari** 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 lib-  
 rary 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 Te-**  
**giring 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 Tegalsari** 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 suggested 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 progoensis* 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 specimen 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 **Schuermans 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** (Shell 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* (*Stepmatoceras*?) *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*Aulacospongia 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 the 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, 1955Synonym *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 Bitauai 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. Molen-graaf two specimens from **Bitauuni** 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. *bitaoniensis* Gerth, 1927d

*Hindia permica* spec. nov. var. *bitaoniensis* var. nov. — Gerth, 1927d: 100, pl. 1 fig. 8, pl. 3 fig. 2-2a

*Hindia permica* spec. nov. var. *bitaoniensis* var. nov. — Gerth, 1929: 7, 29, pl. 219(1) fig. 2-2a, pl. 214(6) fig. 3

*Hindia permica* var. *bitaoniensis* Gerth — Gerth, 1931b: 116

Holotype from the Permian of **Bitauuni** 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 "Bitauuni". 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 **Bitauuni** 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 *Lepidocyclus* **Gümbel, 1868**  
*Lepidocyclus gigantea* (**Martin, 1880a**)

*Orbitoides gigantea* nov. spec. — **Martin, 1880a**: 162-163, pl. 28 fig. 3

*Lepidocyclus 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 label of RGM.3445 reads: "Oud Mioceen".

*Lepidocyclus transiens* **Umbgrove, 1929b**

*Lepidocyclus 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 *Lepidocyclus* (*Eulepidina*) **Douvillé, 1911**  
*Lepidocyclus* (*Eulepidina*) *carteri* **Martin, 1880d**

*Orbitoides Carteri* nov. spec. — **Martin, 1880a**: 161-162, pl. 28 fig. 2

*Lepidocyclus* (*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).

*Lepidocyclus* (*Eulepidina*) *euglabra* **Douvillé, 1925**

*Lepidocyclus* (*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**)).

*Lepidocyclus* (*Eulepidina*) *limbata* **Douvillé, 1916**

*Lepidocyclus* (*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 *Lepidocyclus* (*Eulepidina*) *papulifera*, both from **Ngampel**.

*Lepidocyclus* (*Eulepidina*) *papulifera* **Douvillé, 1916**

*Lepidocyclus* (*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**)).

*Lepidocyclus* (*Eulepidina*) *radiata* (**Martin, 1880a**)

*Orbitoides radiata* nov. spec. — **Martin, 1880a**: 163, pl. 28 fig. 4  
*Lepidocyclus* (*Eulepidina*) *radiata*, Martin — **Douvillé, 1916**: 26, pl. 5 fig. 4

*Lepidocyclus 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**)).

*Lepidocyclus* (*Eulepidina*) *rutteni* **Douvillé, 1925**

*Lepidocyclus* (*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 *Lepidocyclus* (*Nephrolepidina*) **Douvillé, 1911**

*Lepidocyclus* (*Nephrolepidina*) *martini* **Schlumberger, 1900**

*Lepidocyclus* (*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 necessary.

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#### List of fossil localities

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| "Durchbruch des Idane Gawo"                  | Gawo Valley, Nias, Indonesia, Asia. Taxa retrieved from this locality: <i>Cyphastraea niasensis</i> , <i>Echinopora porosa</i> and <i>Echinopora lamellosa</i> .   |
| "Tal des Gomo, Nebenfluss des Soesoewa"      | Valley. Nias, Indonesia, Asia. Taxa retrieved from this locality: <i>Echinopora porosa</i> and <i>Echinopora lamellosa</i> .   |
| 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: <i>Isis polyacantha</i> .  |
| 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 Mijneuzen on sheet 110A of the geological map of Java. This is loc. 60 of Cosijn. Also called "NW of G. Baring". Taxa retrieved from this locality: <i>Pericosmus parvus</i> , <i>Flabellum rubrum</i> and <i>Endopachys grayi</i> . |

- 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) timorensis* 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*, *Zaphrentis phillipsi*, *Basleophyllum indicum*, *Caninia arundinacea*, *Pentaphyllum (Tachylasma) beyrichi var. tabulatum*, *Pleramplexus similis*, *Plerophyllum bitaunense*, *Pentaphyllum (Tachylasma) timorensis var. calyculat*, *Pentaphyllum (Tachylasma) timorensis var. cylindric*, *Pentaphyllum (Tachylasma) timorensis 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 radiceformis radiceformis*, *Ufimia radiceformis*, *Wannerophyllum cristatum*, *Verbeekiella australis*, *Verbeekiella australis forma elongata*, *Favosites permica*, *Favosites relict*, *Pseudofavosites styliifer*, *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) timorensis*, *Pentaphyllum (Tachylasma) beyrichi var. elongatum*, *Pentaphyllum (Tachylasma) beyrichi*, *Pentaphyllum (Tachylasma) makrodeuterum*, *Pentaphyllum (Tachylasma) densum*, *Pentaphyllum (Tachylasma) isoseptatum*, *Stylonites porosus*, *Gertholites lobatus*, *Ufimia radiceformis defecta*, *Timorphyllum wanneri*, *Timorphyllum wanneri wanneri*, *Polycoelia (Polycoelia) tenuis*, *Pentaphyllum (Tachylasma) timorensis typicum*, *Plerophyllum radiceforme*, *Schizophorites dubiosus*, *Zaphrentis leptocoma*, *Stylophora pistillata forma elongata*, *Paralleynia leptoseptata*, *Dibunophyllum rothpletzi*, *Dibunophyllum tubulosum*, *Amplexocarinia sp.*, *Amplexocarinia abichi*, *Amplexocarinia geyseri*, *Timorphyllum wanneri variabile*, *Gertholites monstrosa*, *Aulohelia laevis*, *Carcinophyllum wichmanni*, *Heterocoenites crassus*, *Monilopora crassa*, *Gertholites curvatus*, *Pseudofavosites styliifer 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.*.
- Bitauuni Village. Nussa Tenggara Timur, Indonesia, Asia. Taxa retrieved from this locality: *Hindia permica*, *Amplexocarinia bitauniensis*, *Trachypsammia dendroides*, *Wannerophyllum cristatum*, *Pentaphyllum (Tachylasma) timorensis*, *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: <i>Lonsdaleiastraea vinassai</i> .
Bod Karbu in northwest Himalaya	Himalaya, Asia. probably Bod Kharbu in Jammu and Kashmir state in India. Taxon retrieved from this locality: <i>Chaetetes deterrai</i> .
Bonleo-Neneas	Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: <i>Wentzelella timorica</i> .
Branch of River Sumbergirang	River. Java, Indonesia, Asia. locatie MNW 113, on sheet 110A. Taxon retrieved from this locality: <i>Endopachys grayi</i> .
Cadasngampar	Java, Indonesia, Asia. "Tsjadasngampar am Tji Longan". Taxa retrieved from this locality: <i>Acropora fennemai</i> and <i>Synaraea javana</i> .
Catan-Lil	Neuquen, Argentina. Taxon retrieved from this locality: <i>Cyathophora decamera</i> .
Ciangsana	Spring. Preanger, Java, Indonesia, Asia. "Tji Angsana, Res. Preangerregentschap". Taxa retrieved from this locality: <i>Seriatopora irregularis</i> , <i>Seriatopora ornata</i> , <i>Acropora duncani</i> and <i>Synaraea javana</i> .
Cibeber	Spring. Preanger, Java, Indonesia, Asia. "Tji Beber", "Aus der Gegend von Njaliendung, dem Bette des Tji Beber kiri". Taxa retrieved from this locality: <i>Coeloria inaequiseptata</i> , <i>Seriatopora irregularis</i> , <i>Seriatopora ornata</i> and <i>Synaraea javana</i> .
Cibining	Java, Indonesia, Asia. Taxon retrieved from this locality: <i>Galaxea junghuhni</i> .
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: <i>Heterocyathus sandalinus</i> , <i>Galaxea junghuhni</i> , <i>Fungia fragilis</i> forma <i>hemispherica</i> and <i>Javanoseris sinuata</i> .
Ciguha	Java, Indonesia, Asia. "Tji Goeha", "Tjiguha". Taxon retrieved from this locality: <i>Dictyaraea micrantha</i> var. <i>spinosa</i> .
Cisande	State. Cheribon, Java, Indonesia, Asia. North of Lurahgung. Taxa retrieved from this locality: <i>Galaxea elegantissima</i> , <i>Favites pentagona tenuis</i> , <i>Coelastraea rectangularis</i> , <i>Tubipora</i> sp. and <i>Isis</i> 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: <i>Favites borneensis</i> , <i>Cyphastraea gemmulifera</i> , <i>Seriatopora irregularis</i> , <i>Seriatopora ornata</i> , <i>Montipora dubiosa</i> and <i>Dictyaraea micrantha</i> var. <i>spinosa</i> .
Dessa Garung	Village. Lamongan, Java, Indonesia, Asia. Taxa retrieved from this locality: <i>Antillophyllia grandiflora</i> , <i>Balanophyllia variabilis</i> , <i>Flabellum variabile</i> forma <i>alta</i> and <i>Dendrophyllia rutteni</i> .
Dessa Gesing	Village. Djombang, Java, Indonesia, Asia. Taxa retrieved from this locality: <i>Balanophyllia variabilis</i> and <i>Flabellum variabile</i> forma <i>alta</i> .
Dessa Sahar	Village. Lamongan, Java, Indonesia, Asia. Taxa retrieved from this locality: <i>Flabellum variabile</i> forma <i>alta</i> , <i>Balanophyllia variabilis</i> and <i>Balanophyllia oppenheimi</i> .
Djapara Border Mountains	Mountain Range. Java, Indonesia, Asia. Taxon retrieved from this locality: <i>Breynia sundaica</i> .
Fatu Bena	Nussa Tenggara Timur, Indonesia, Asia. Taxa retrieved from this locality: <i>Favosites permica</i> , <i>Heterocoenites variabilis</i> , <i>Heterocoenites crassus</i> , <i>Palaeacis regularis</i> , <i>Palaeacis tubifer</i> , <i>Gertholites curvatus</i> , <i>Gertholites</i> sp., <i>Pachypora jabiensis</i> and <i>Trachypsammia dendroides</i> .
Fatu Inu	Nussa Tenggara Timur, Indonesia, Asia. Loc. 31 van Snellius exp.?. Taxa retrieved from this locality: <i>Pseudofavosites stylifer</i> and <i>Aulohelia laevis</i> .
Fatu Nemassi	Mountain. Nussa Tenggara Timur, Indonesia, Asia. Taxa retrieved from this locality: <i>Montlivaltia timorica</i> , <i>Stylophyllopsis timoricus</i> , <i>Pachypora oligopora</i> and <i>Montlivaltia gigas</i> .
Fatu Nikat	Nussa Tenggara Timur, Indonesia, Asia. Also named Fatoe Nilat. Taxon retrieved from this locality: <i>Pentaphyllum (Tachylasma) timorense</i> .
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: <i>Thecosmilia fenestrata</i> var. <i>multiseptata</i> .

- 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 sunndaica* 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 Gelingsih, Kalimantan Timur, Indonesia, Asia. The **Gunung Batu-Anticline** (loc. 34-36 in 1549in citaat>) is in the source area of the **Sungai Gelingsih**, which is name giver to the Gelingsih-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 Gelingsih**. 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 locality 'Gunung Gelingsih' 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 Tegalsari Hill. Nanggulan, Java, Indonesia, Asia. Taxa retrieved from this locality: *Phyllacanthus dubius sunndaica* 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 Mlending 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: *Stylohelium 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 Sjo 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 Progoberge" (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 called 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 Song". Taxon retrieved from this locality: *Bathyactis eoacnica*.
- Kali Tjemoro River. Java, Indonesia, Asia. Kali Tjemoro is south of Sangiran in "Abteilung" Bogorali in "Residenz" Solo. On one label of RGM 3768 is stated: "Sangiran distr. Kalioso Res. Soerakarta", while another label of the same specimen displays "Kali Tjemoro". Taxon retrieved from this locality: *Heterocyathus sandalinus*.
- Kampung Djunggrangan Village. Java, Indonesia, Asia. Taxa retrieved from this locality: *Petrophylliella javana*, *Fungophyllia explanata* and *Confusastraraea obsoleta*.
- Kampung Fatukan close to Lahurus Village. Nussa Tenggara Timur, Indonesia, Asia. Taxa retrieved from this locality: *Isis polyacantha* and *Stephanoseris carthausi*.
- Kampung 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.

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.

Kasliu	Nussa Tenggara Timur, Indonesia, Asia.
Kembang Sokkoh	River. West Progo Mountains, Jogjakarta, Java, Indonesia, Asia. Probably same as Kembang Sokoh in Banyumudal. Taxa retrieved from this locality: <i>Petrophylliella javana</i> , <i>Confusastraraea obsoleta</i> , <i>Actinastrea minutissima</i> , <i>Stylophora sokkohensis</i> , <i>Stylophora digitata</i> , <i>Diplohelix malayica</i> , <i>Orbiculina adunca</i> and <i>Lithophyllia spinosa</i> .
Koaféu near Baung	Nussa Tenggara Timur, Indonesia, Asia.
Kr. Lambajong	River. Sawang, Sumatra. Sometimes also cited as Kr. Labajong. Taxon retrieved from this locality: <i>Stephanoseris carthausi</i> .
Lampung	District. Sumatra.
Mandao	Nussa Tenggara Timur, Indonesia, Asia. Taxa retrieved from this locality: <i>Favosites</i> sp., <i>Pentaphyllum (Tachylasma) timorensis</i> , <i>Dibunophyllum rothpletzi</i> , <i>Dibunophyllum tubulosum</i> and <i>Timorphyllum wanneri</i> .
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: <i>Echinodiscus lesueurii</i> .
Mot	Amarassi, Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: <i>Virgula? malayica</i> .
Mota Talau near Atambua	Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: <i>Dasyphyllia brevicaulis</i> .
Muara Kobun, Uferabgang am Tongkang, Sangkulirang	Rivermouth. Kalimantan Timur, Indonesia, Asia. Taxon retrieved from this locality: <i>Acanthocyathus malayicus</i> .
Murung Brunei at Sungai Tabalong	River. Amuntai, Borneo, Indonesia, Asia. Taxa retrieved from this locality: <i>Hydnophora solidior</i> and <i>Leptoria concentrica</i> .
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 Bitauini or part of it?. Taxa retrieved from this locality: <i>Phacellopegma praemorsa</i> , <i>Palaeophyma piriformis</i> , <i>Palaeophyma cucumeriformis</i> , <i>Palaeophyma claviger</i> , <i>Palaeophyma</i> sp., <i>Mastophyma jonkeri</i> , <i>Mastophyma globosa</i> , <i>Pycnospongia timorensis</i> , <i>Amplexocarinia abichi</i> , <i>Spineria (Cystina) ultima</i> and <i>Spineria (Cystina) uniformis</i> .
Negri Weluli	Village. Lamakane, Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: <i>Lophophyllidium spinosum</i> .
Neighbourhood of Awaay	Nias, Indonesia, Asia. Taxa retrieved from this locality: <i>Cynarina</i> sp. and <i>Antillia turbinata</i> .

- Netu Kot Nussa Tenggara Timur, Indonesia, Asia. Taxa retrieved from this locality: *Zaphrentis 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*, *Lepidocyclus (Eulepidina) papulifera*, *Cycloclipeus annulatus*, *Lepidocyclus (Eulepidina) limbata*, *Lepidocyclus (Eulepidina) radiata* and *Cycloclipeus communis*.
- Ngandang Village. Java, Indonesia, Asia. Taxa retrieved from this locality: *Lepidocyclus (Eulepidina) euglabra*, *Lepidocyclus (Nephrolepidina) martini*, *Lepidocyclus (Eulepidina) rutteni* and *Cycloclipeus 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 Distrikt 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 Tjilang and Njalindoeng beds, which are of Tf2-Tf3 age. However, the large benthic foraminifera found in the two levels indicate an older age: *Lepidocyclus (Nephrolepidina) subradiata* is typical for the Rembang beds. The occurrence of *Miogyopsina* with *Lepidocyclus (Nephrolepidina)* and *Austrotrillina* indicate an Tf1 age for the 110m level. The 60m contains *Flosculinella bontangensis*, together with *Lepidocyclus (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  
Noil Tonini  
Noordrivier  
North of village Kalemblandong  
Northside Seroe Hoba  
Nussa Tenggara Timur  
Oikabitti  
Oilmasi  
Palembang  
Panowan River  
Papua  
Pitjis  
Podjok  
Point 666 near Basleo  
Pulau Mandul  
Pulau Sinkuwang  
Puntuk Tedjo  
Rapala- Catan-Sil-"Karrenweg" near the source of Arrogo los Molles  
Rembang  
River Badjang  
River Banjubanger  
River Kedungpring  
River Sudo, branch of River Beng
- River. Manubait, Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: *Flabellum insulindae*.
- Nussa Tenggara Timur, Indonesia, Asia.
- River. Papua, Indonesia, Asia. in southeast of Papua. Taxon retrieved from this locality: *Favosites* sp..
- Outcrop. Surabaya, Java, Indonesia, Asia. Taxon retrieved from this locality: *Stylophora pocilloporoides*.
- Mountainside. Curaçao, Netherlands Antillen, Netherlands. Taxon retrieved from this locality: *Multicolumnastraea parvula*.
- Province. Indonesia, Asia. Taxa retrieved from this locality: *Timorphyllum wanneri*, *Pseudofavosites styliifer septosa*, *Pseudofavosites styliifer*, *Schizoporites 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*.
- Amarassi, Nussa Tenggara Timur, Indonesia, Asia. Taxa retrieved from this locality: *Pericosmus timorensis* and *Schizaster japonicus*.
- Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: *Plerophyllum radiceforme*.
- Town. Sumatra.
- 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*.
- Province. Indonesia, Asia.
- Rembang, Java, Indonesia, Asia. Taxa retrieved from this locality: *Cidaris aculeata* and *Phyllacanthus imperialis javana*.
- 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*.
- Nussa Tenggara Timur, Indonesia, Asia. "Punkt 666 bei Besleo".
- Island. Kalimantan Timur, Indonesia, Asia. Taxon retrieved from this locality: *Diploastrea heliopora* var. *borneensis*.
- Island. Kalimantan Timur, Indonesia, Asia. Taxa retrieved from this locality: *Odontocyathus sundaicus* and *Acanthocyathus malayicus*.
- Java, Indonesia, Asia. Taxa retrieved from this locality: *Goniastrea progoensis*, *Confusastraraea obsoleta* and *Astreopora* sp..
- Neuquen, Argentina. Taxon retrieved from this locality: *Montlivaltia delabechii* forma *andina*.
- City. Java, Indonesia, Asia. Taxa retrieved from this locality: *Lithophyllia spinosa*, *Scolymia vitiensis* and *Jacksonaster herklotzi*.
- River. Java, Indonesia, Asia. Taxon retrieved from this locality: *Paracyathus stokesii*.
- River. Surabaya, Java, Indonesia, Asia. Taxon retrieved from this locality: *Acanthocyathus grayi*.
- River. Surabaya, 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. Java, Indonesia, Asia. Taxon retrieved from this locality: *Paracyathus* sp..

- River Tretes near village Garung Sangkulirang Bay  
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*.
- 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 styliifer*, *Cladochonus crassus*, *Aulopora timorica* and *Gertholites lobatus*.
- Sungai Gelingseh  
River. Kalimantan Timur, Indonesia, Asia. "Goenoeng Batoe-Antiklinale". Taxa retrieved from this locality: *Placosmilia* sp., *Progyrosmlia 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 *Zaphrentis 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: <i>Coeloria naroetensis</i> .
Sungai Pamaluan	River. Borneo, Indonesia, Asia.
Sungai Pelarang	Village. Kalimantan Timur, Indonesia, Asia. near Samarinda. Taxa retrieved from this locality: <i>Fungophyllia aspera</i> , <i>Echinopora pelarangensis</i> , <i>Leptoseria</i> sp., <i>Pachyseris speciosa</i> , <i>Pachyseris denticulata</i> and <i>Turbinaria</i> sp..
Sungai Pongjangan	River. Borneo, Indonesia, Asia.
Sungai Selankau	River. Kalimantan Timur, Indonesia, Asia. Taxon retrieved from this locality: <i>Scalariogyra escharoides</i> .
Sungai Taritip	River. Kalimantan Timur, Indonesia, Asia. Taxon retrieved from this locality: <i>Ceratocyathus pressulus</i> .
Tanah Belang	Mud Volcano. Kalimantan Timur, Indonesia, Asia. Taxa retrieved from this locality: <i>Deltocyathus australis</i> , <i>Deltocyathus tuberculatus</i> , <i>Odontocyathus radiatus</i> , <i>Trochocyathus schmidti</i> , <i>Ceratocyathus pressulus</i> , <i>Ceratocyathus curvatus</i> , <i>Phloeocyathus brunneus</i> , <i>Diplohelix complanata</i> and <i>Odontocyathus</i> 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: <i>Stephanocyathus magnificus</i> and <i>Ceratocyathus pressulus</i> .
Tjelak	Region. Java, Indonesia, Asia. Taxon retrieved from this locality: <i>Synaraea javana</i> .
Tonino I	Nussa Tenggara Timur, Indonesia, Asia.
Trench to Munungkerep	Trench. Surabaya, Java, Indonesia, Asia. Taxon retrieved from this locality: <i>Fungia actinodiscus</i> .
Tubu Lopo	Nussa Tenggara Timur, Indonesia, Asia. Loc. 22 van Snellius expedition. Taxa retrieved from this locality: <i>Pseudofavosites stylifer</i> and <i>Michelinia indica</i> .
Tuninu	Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: <i>Cladochonus crassus</i> .
Tuniun Enno	Nussa Tenggara Timur, Indonesia, Asia. Also written as 'Toenioen Enno'.
Töo	Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: <i>Mastophyma globosa</i> .
Wai Geloe	River. Lampong, Sumatra. Taxon retrieved from this locality: <i>Lepidocyclus transiens</i> .
Wai Hotton	River. Buru, Maluku, Indonesia, Asia. Taxon retrieved from this locality: <i>Alveopora deningeri</i> .
Wairori	River. Papua, Indonesia, Asia. Taxa retrieved from this locality: <i>Bullatimorphites (Treptoceras) uhligi</i> , <i>Stephanoceras etheridgei</i> , <i>Stephanoceras</i> sp., <i>Stephanoceras (Itinsaites) sp.</i> and <i>Stephanoceras mackensii</i> .
West Progo mountains	Mountain Range. Jogjakarta, Java, Indonesia, Asia. Taxon retrieved from this locality: <i>Flosculinella globulosa</i> .
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: <i>Symphyllia molengraaffi</i> .
a path Niki-Niki to Lenu near Noil Tonini	Road. Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: <i>Stylonites porosus</i> .
a path from Maubesi to Nununai, east of Fafi Nesi	Path. Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: <i>Montlivaltia stylophylloides</i> .

- a steep northern  
valleyside of the  
Noil Fatu along  
path between  
Nèke and Niki  
Niki  
anticline south of  
Sungai Bungalun  
between Bontang  
and Sungai  
Sekaming, west  
of Rintis Kajan
- between  
Cilitung and  
Ciangsana  
between Gunung  
Runtu and  
Gunung  
Mantugai  
between Kaoneke  
and Nilulet  
between Niki  
Niki and the Noil  
Fatu  
between Noil  
Noni and Pene  
between  
Sumberdjo and  
Sumberploso  
between  
Wekmurak and  
Mancelac  
dessa Tlava
- east of Gunung  
Kladi  
east of Mount  
Watulawang  
east part of  
Sembulu-anticline
- locality  
"Junghuhn E"  
locality  
"Junghuhn N"  
locality  
"Junghuhn O"
- 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. Kalimantan Timur, Indonesia, Asia. Taxon retrieved from this locality: *Leptoseris alternans*.
- 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 Vesseem (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 successor 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*.
- Preanger, Java, Indonesia, Asia. Taxon retrieved from this locality: *Dictyaraea micrantha var. spinosa*.
- Outcrop. Kalimantan Timur, Indonesia, Asia. west of Bontang. Taxon retrieved from this locality: *Scalariogyra escharoides*.
- Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: *Pentaphyllum (Tachylasma) timorense*.
- Nussa Tenggara Timur, Indonesia, Asia. Taxa retrieved from this locality: *Aulacospongia sp.*, *Aulohelia irregularis* and *Hindia permica*.
- Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: *Flabellum poseidonis*.
- Java, Indonesia, Asia. Taxon retrieved from this locality: *Stylophora pocilloporoides*.
- Timor, Lesser Sunda Islands, Sunda Islands, Asia. Taxon retrieved from this locality: *Tubipora rubiola*.
- Village. Bodjonegoro, Java, Indonesia, Asia. Taxa retrieved from this locality: *Dendrophyllia rutteni* and *Dendrophyllia digitalis*.
- Mahakam, Kalimantan Timur, Indonesia, Asia. Taxon retrieved from this locality: *Fungophyllia aspera*.
- Outcrop. Java, Indonesia, Asia. Locality 77 Dienst Mijnwezen on sheet 110A. Taxon retrieved from this locality: *Paracyathus javana*.
- Anticline. Kalimantan Timur, Indonesia, Asia. between Sungai Lemoedjan and Sungai Sawahan. Taxa retrieved from this locality: *Orbicella cyclommatus*, *Stylophora tenuissima* and *Stylophora verrucosa*.
- Java, Indonesia, Asia.
- Java, Indonesia, Asia. Taxa retrieved from this locality: *Hydnophora astraeoides*, *Orbicella tabulata* and *Coeloria singularis*.
- Java, Indonesia, Asia. la parite sudouest du plateau de Bandung; 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*, *Dictyariaea anomala*, *Dictyariaea 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 Klagensblandong 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. Surabaya, 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: *Solenastrea 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. Surabaya, 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 granulatus*, *Spatangus affinis*, *Eupatagus affinis*, *Eupatagus (Brissoides) pulchella*, *Cycloclypeus communis* and *Lepidocyclus 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: <i>Fungophyllia millepunctata</i> , <i>Progyrosmilia vacua</i> , <i>Goniopora planulata</i> , <i>Fungophyllia aspera</i> and <i>Porites</i> sp..
the profile in Triassic in Oi Ekar near Chinese building	Outcrop. Nussa Tenggara Timur, Indonesia, Asia. Taxon retrieved from this locality: <i>Wentzelella timorica</i> .
the surroundings of Kyam	Region. Tschang-tschenmo Valley, Karakorum, Asia. Taxa retrieved from this locality: <i>Lonsdaleiastraea typica</i> , <i>Lonsdaleia variabile</i> , <i>Dybowskiella grandis</i> and <i>Hexagonella</i> sp..
the top of Seru Bomba Bua	Mountain Top. Curaçao, Netherlands Antillen, Netherlands. Taxon retrieved from this locality: <i>Goniastrea curasavica</i> .
the western part of Cidamar	Spring. Java, Indonesia, Asia. Locality Junghuhn K (north of Sindangbarang ). Taxa retrieved from this locality: <i>Trachyphyllia crassa</i> , <i>Clypeaster latus</i> , <i>Clypeaster (Stolonoclypeus) humilis</i> , <i>Clypeaster rosaceus</i> , <i>Clypeaster tumescens</i> , <i>Clypeaster testudinarius</i> , <i>Pliolampas (Tristomanthus) minutus</i> , <i>Pericosmus asperulatus</i> , <i>Pericosmus granulatus</i> , <i>Pericosmus rotundatus</i> , <i>Pericosmus elatus</i> , <i>Pericosmus parvus</i> , <i>Hemifaorina tuber</i> , <i>?Hemiaster</i> sp., <i>Hemiaster tuberculatus</i> , <i>Cycloclypeus communis</i> , <i>Lepidocyclus (Eulepidina) radiata</i> , <i>Lepidocyclus (Eulepidina) carteri</i> and <i>Lepidocyclus gigantea</i> .
west of Gunung Batuta and south of Sungai Bungalun	Coast Area. Kalimantan Timur, Indonesia, Asia. Taxa retrieved from this locality: <i>Hydnophyllia applanata</i> and <i>Cyathoseris crassilamellata</i> .
±100m south of River Kedungpring	Outcrop. Surabaya, Java, Indonesia, Asia. Taxon retrieved from this locality: <i>Acanthocyathus grayi</i> .

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**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)  
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Fig. 15. *Isis* sp. in Umbgrove (1945) (RGM 167663, overview)

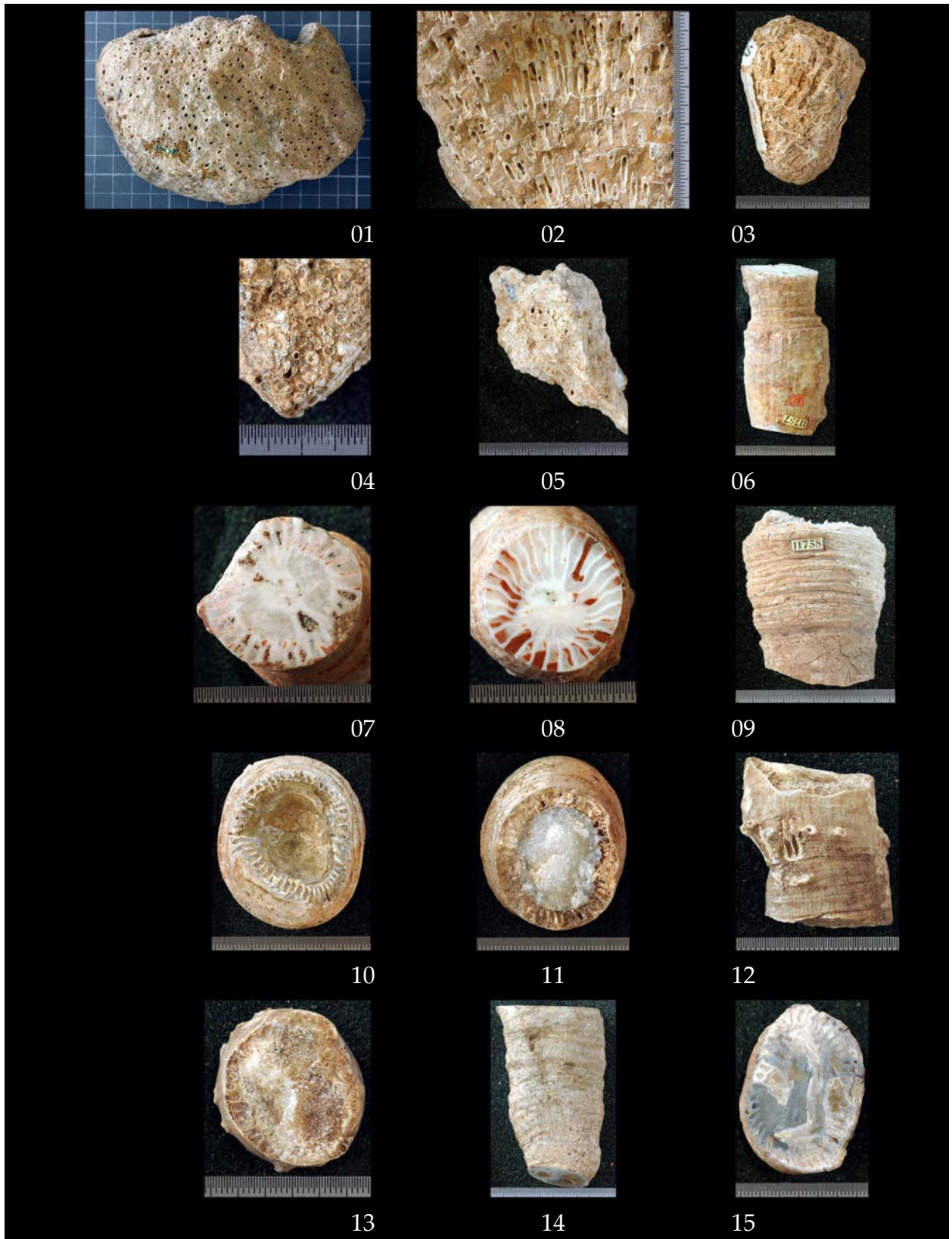
Plate 1



## Plate 2

- Fig. 1. *Tubipora rubiola* in Felix (1920) (THDKA 13662, overview)  
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Fig. 15. *Amplexocarinia bitauniensis* (paratype) in Schouppé & Stacul (1959) (RGM 525663, transverse section, top.)

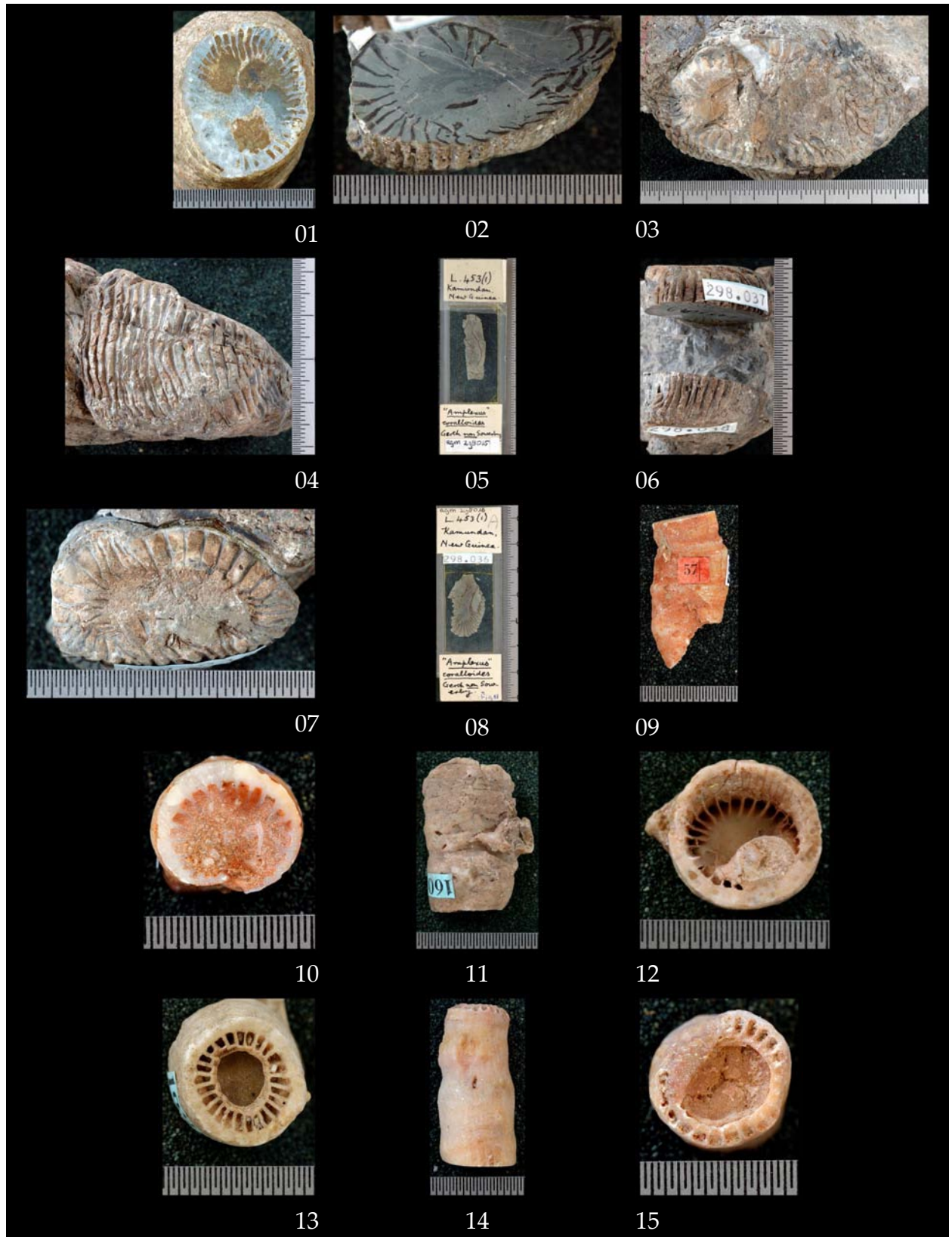
Plate 2



**Plate 3**

- Fig. 1. *Amplexocarinia bitauniensis* (paratype) in Schouppé & Stacul (1959) (RGM 525663, transverse section, bottom.)  
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Plate 3



**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.)
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- 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)



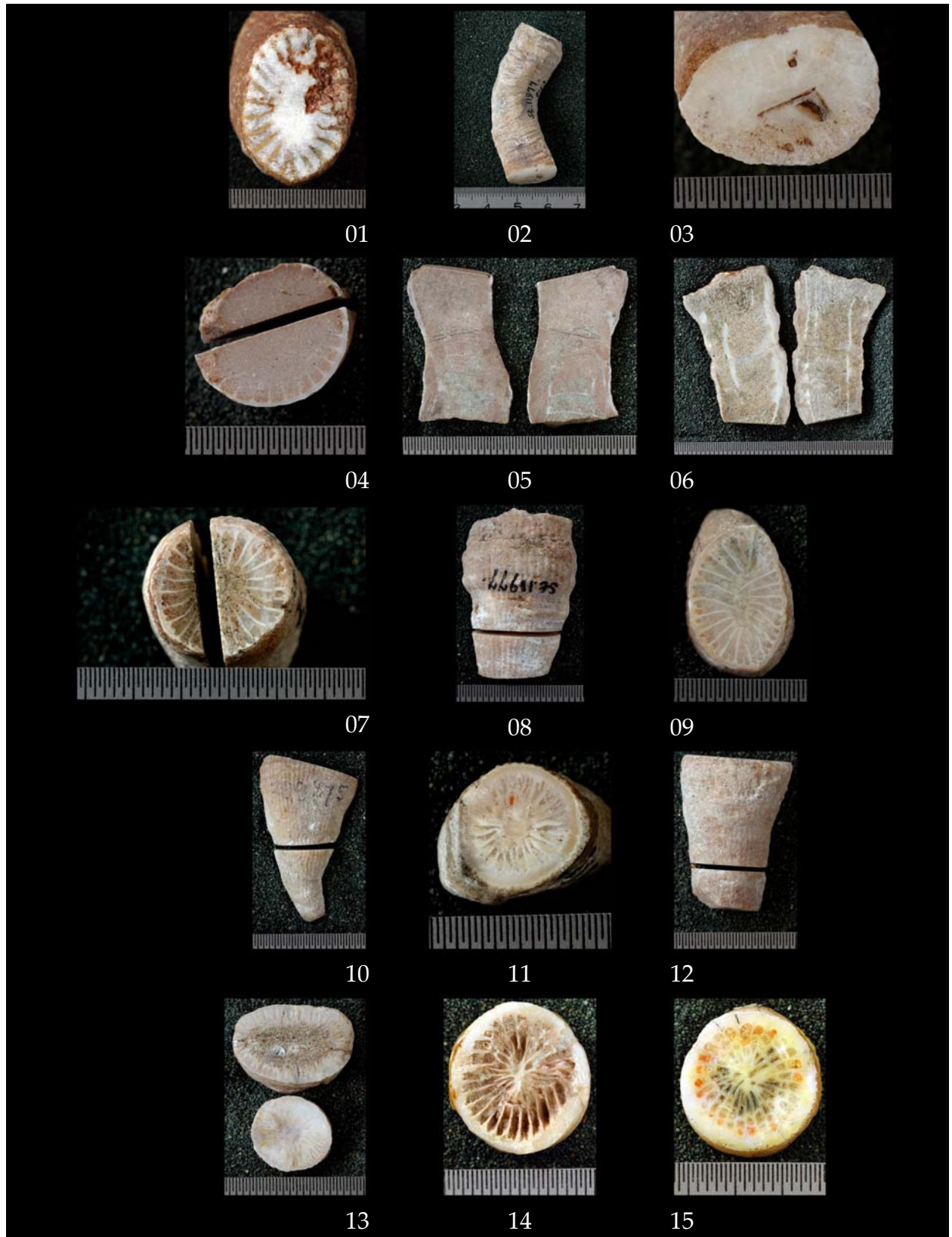
Plate 4



**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)

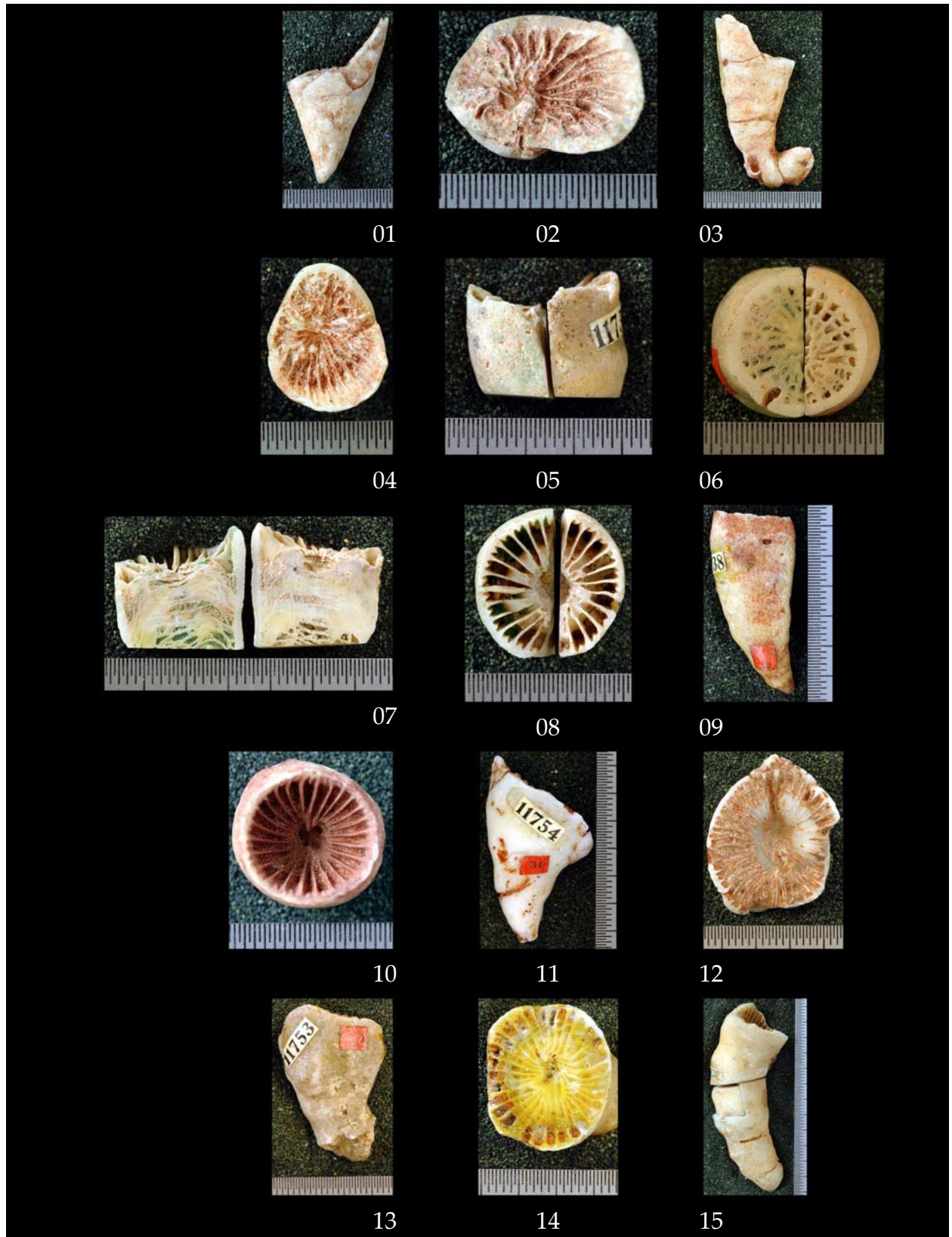
Plate 5



**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), *Zaphrentis phillipsi* in Koker (1924) (THDKA 11753, side view)
- Fig. 14. *Basleophyllum indicum* in Schouppé & Stacul (1959), *Zaphrentis 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)



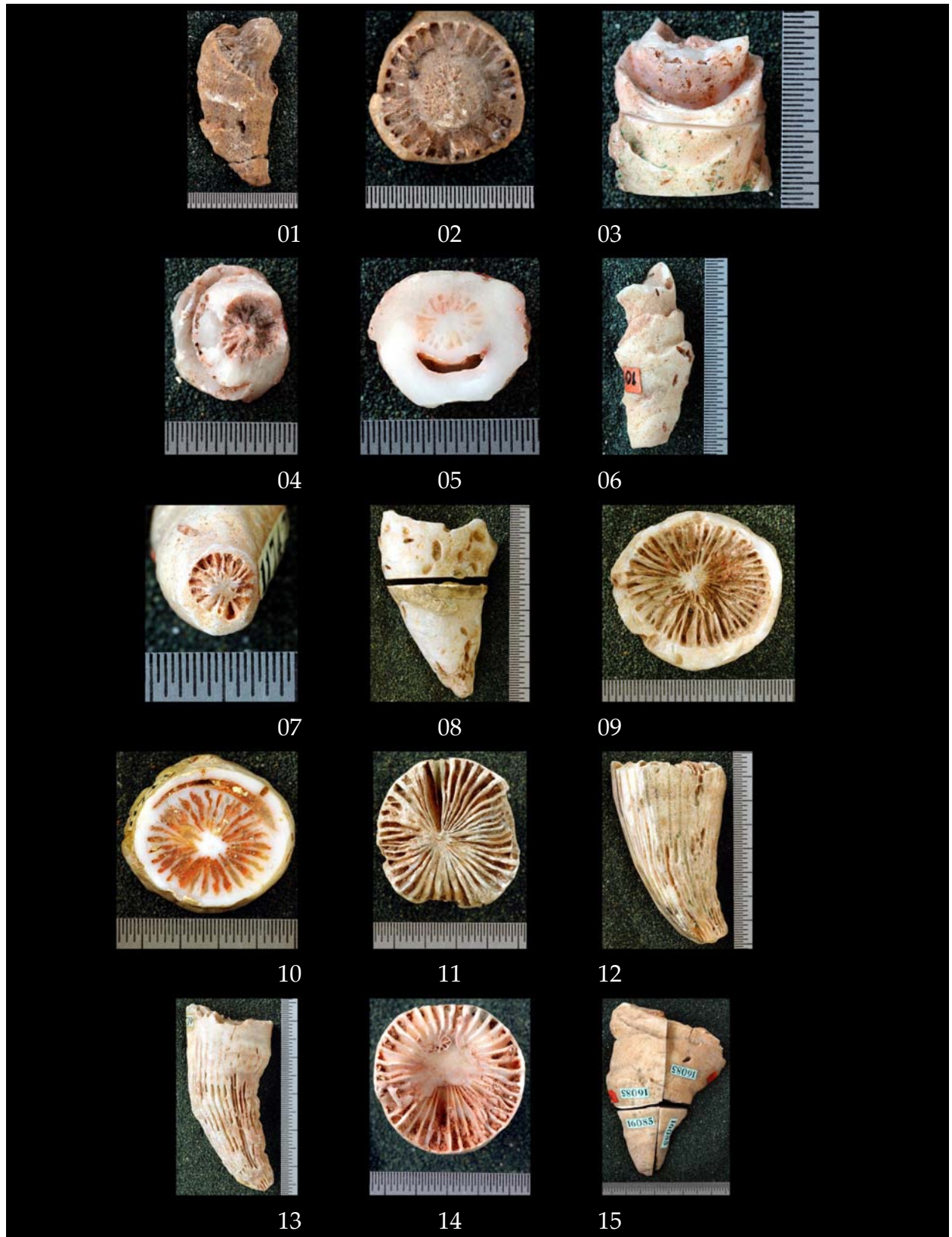
Plate 8



**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)

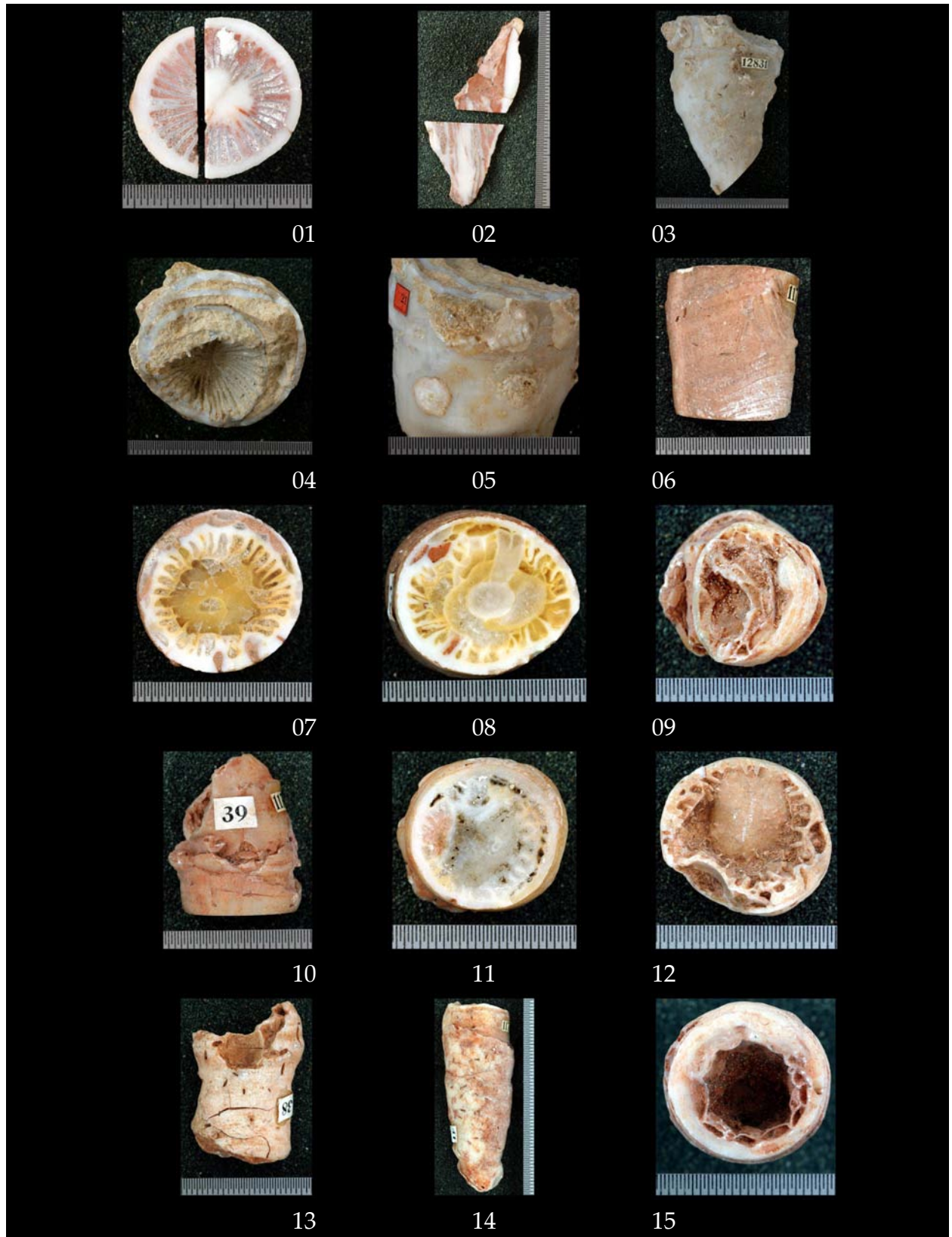
Plate 9



**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)

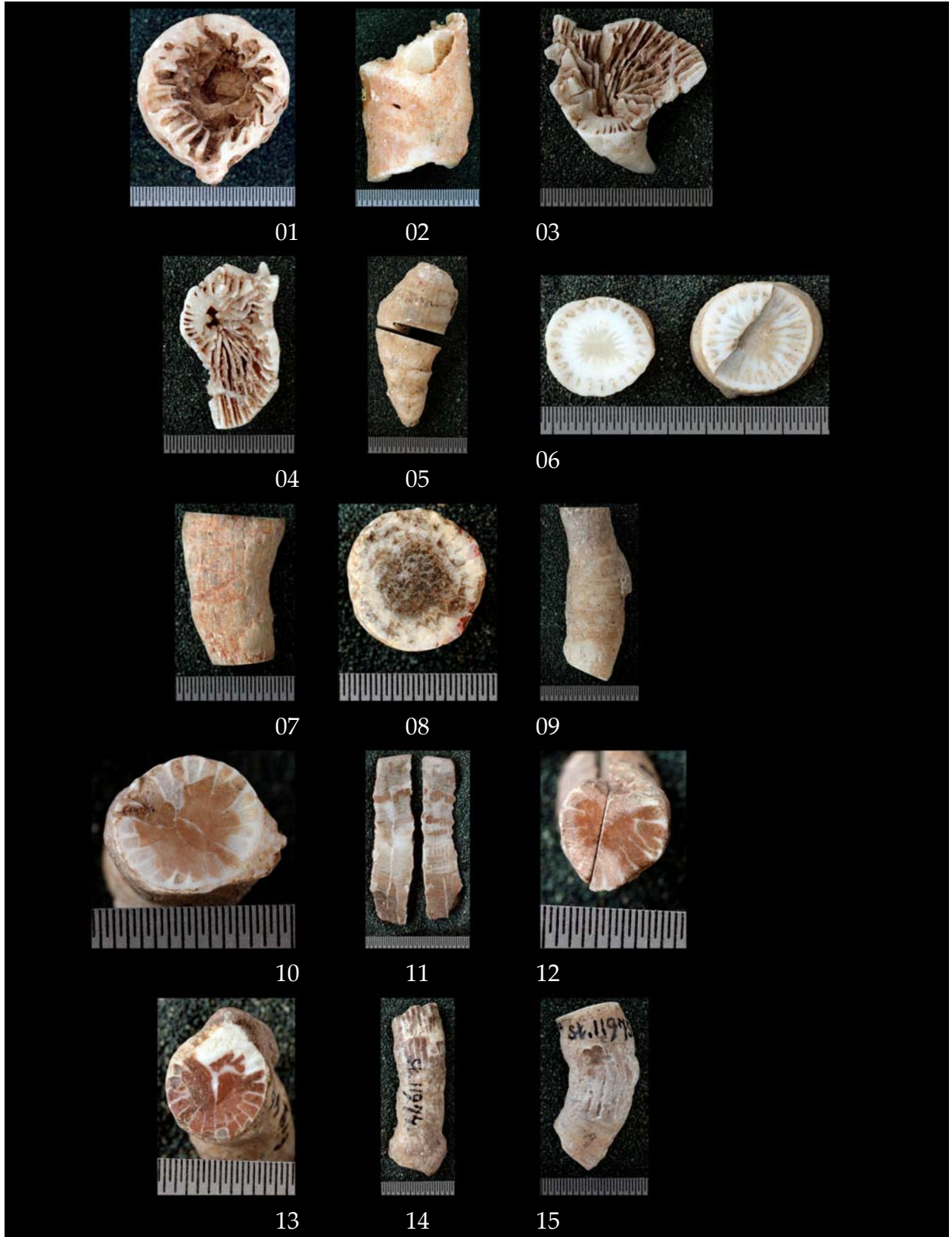
Plate 10



**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)

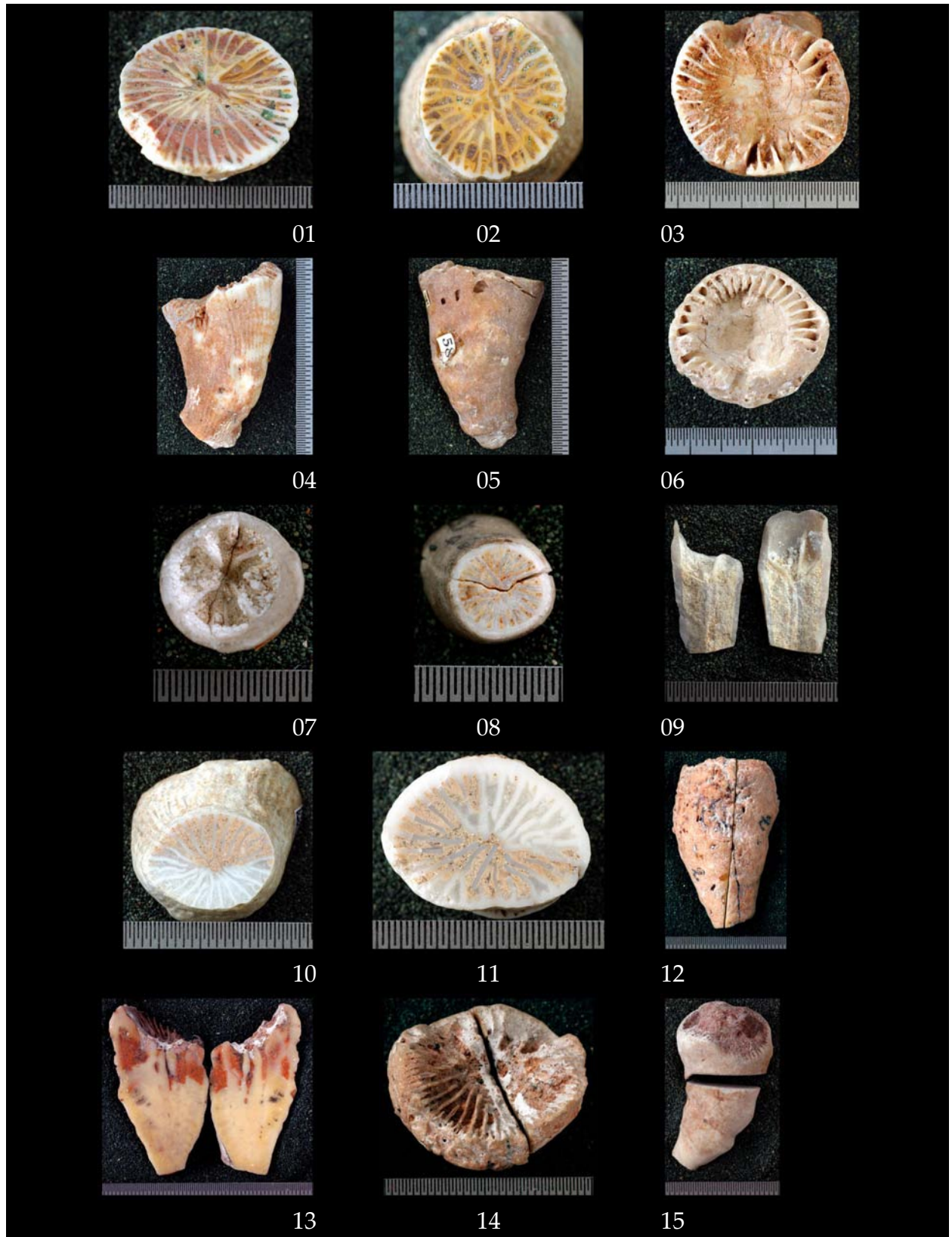
Plate 13



**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) timorensis* (syntype) in Gerth (1919) (RGM 529539, side view)  
Fig. 13. *Pentaphyllum (Tachylasma) timorensis* (syntype) in Gerth (1919) (RGM 529539, radial section)  
Fig. 14. *Pentaphyllum (Tachylasma) timorensis* (syntype) in Gerth (1919) (RGM 529539, top view)  
Fig. 15. *Pentaphyllum (Tachylasma) timorensis* (syntype) in Gerth (1919) (RGM 529540, side view)

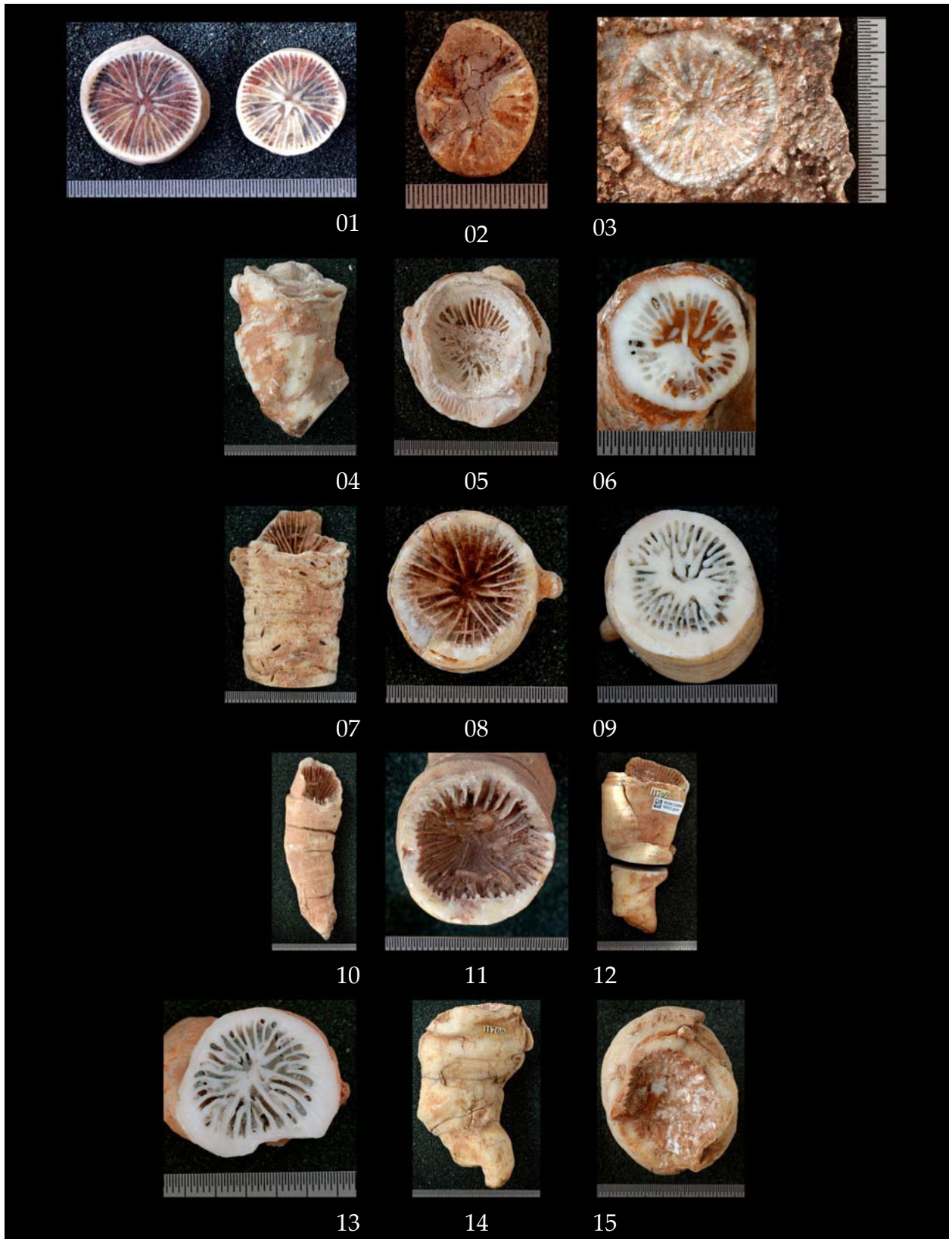
Plate 14



**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

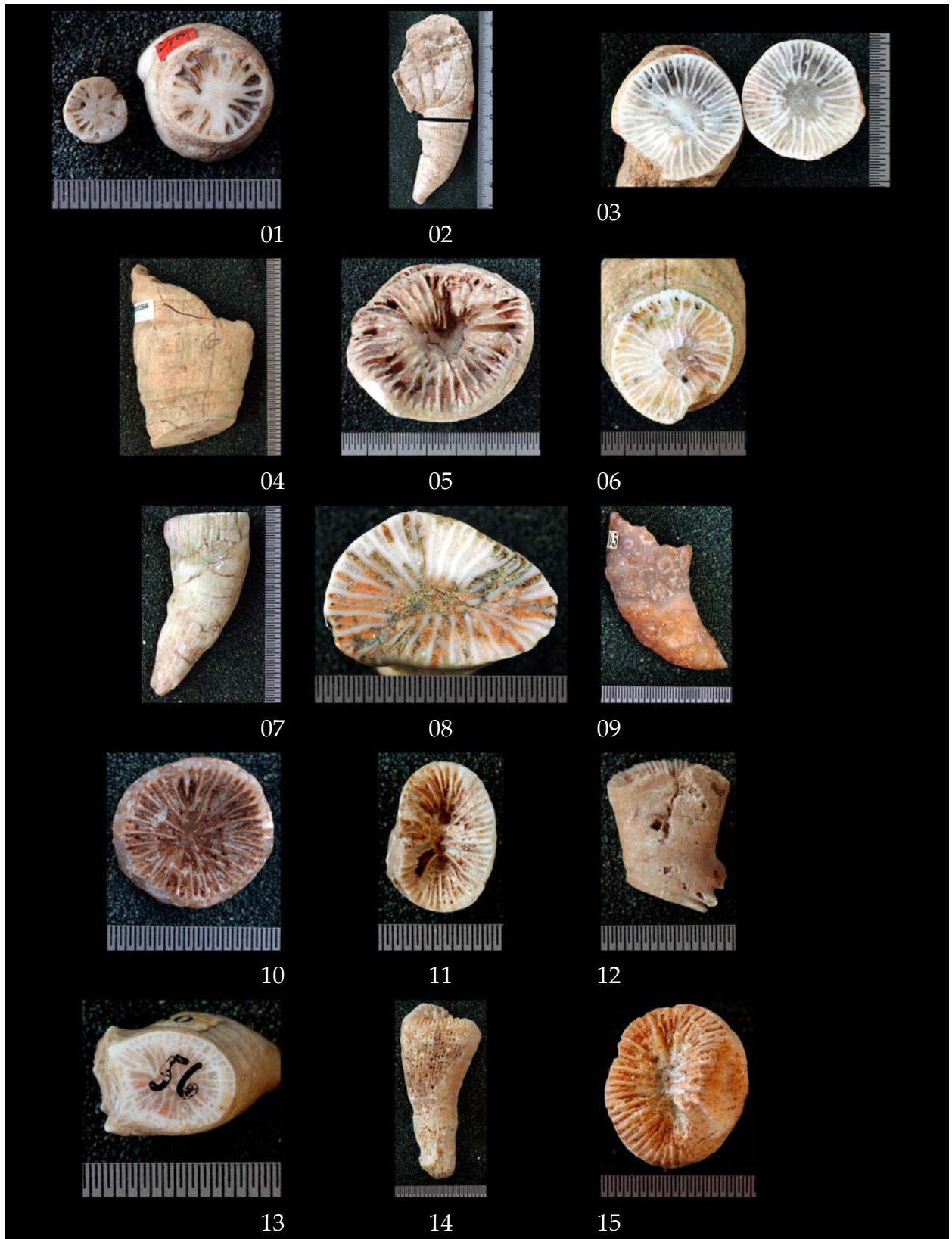


**Plate 16**

- Fig. 1. *Pentaphyllum (Tachylasma) timorensis 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 recrystallisation 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)



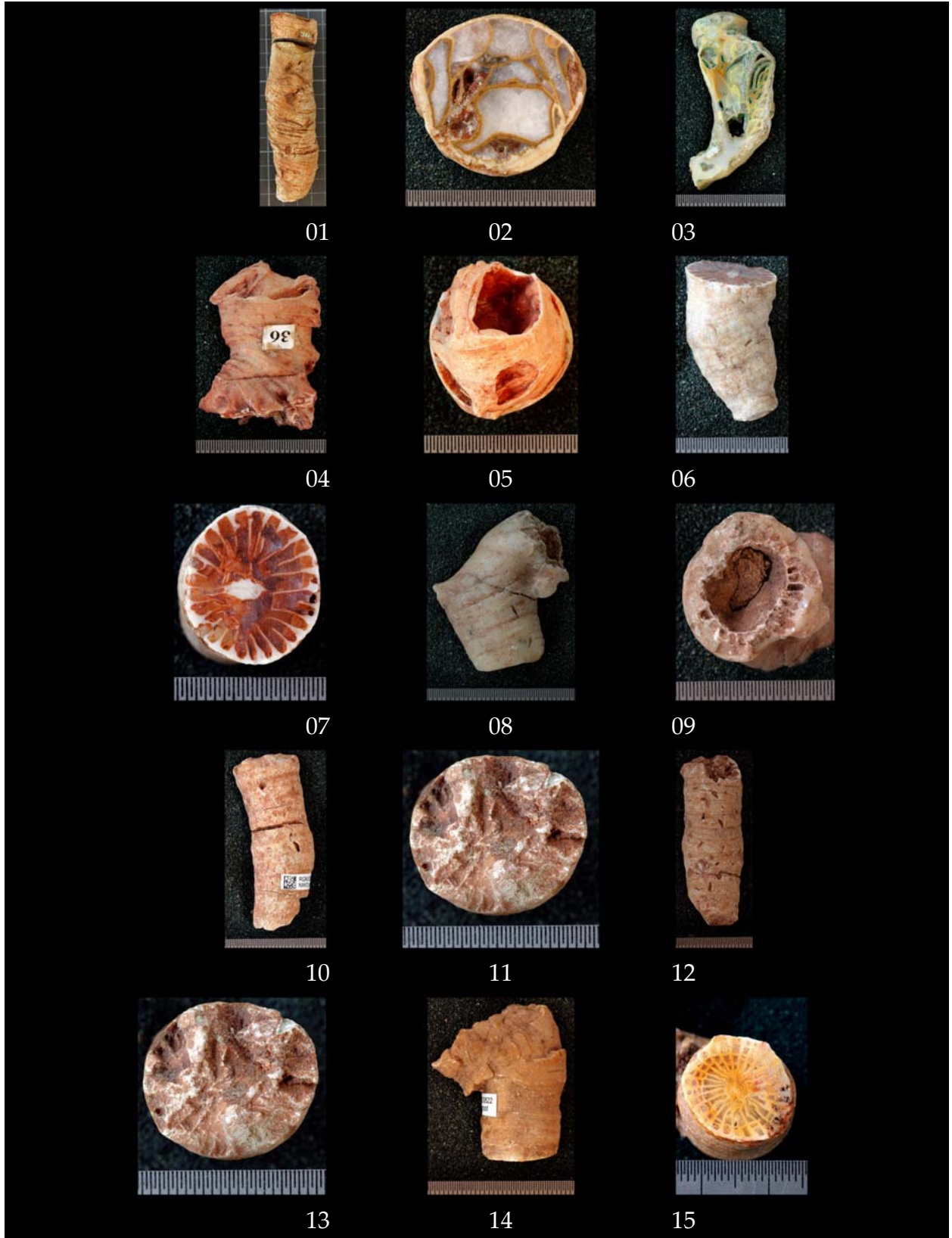
Plate 16



**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)

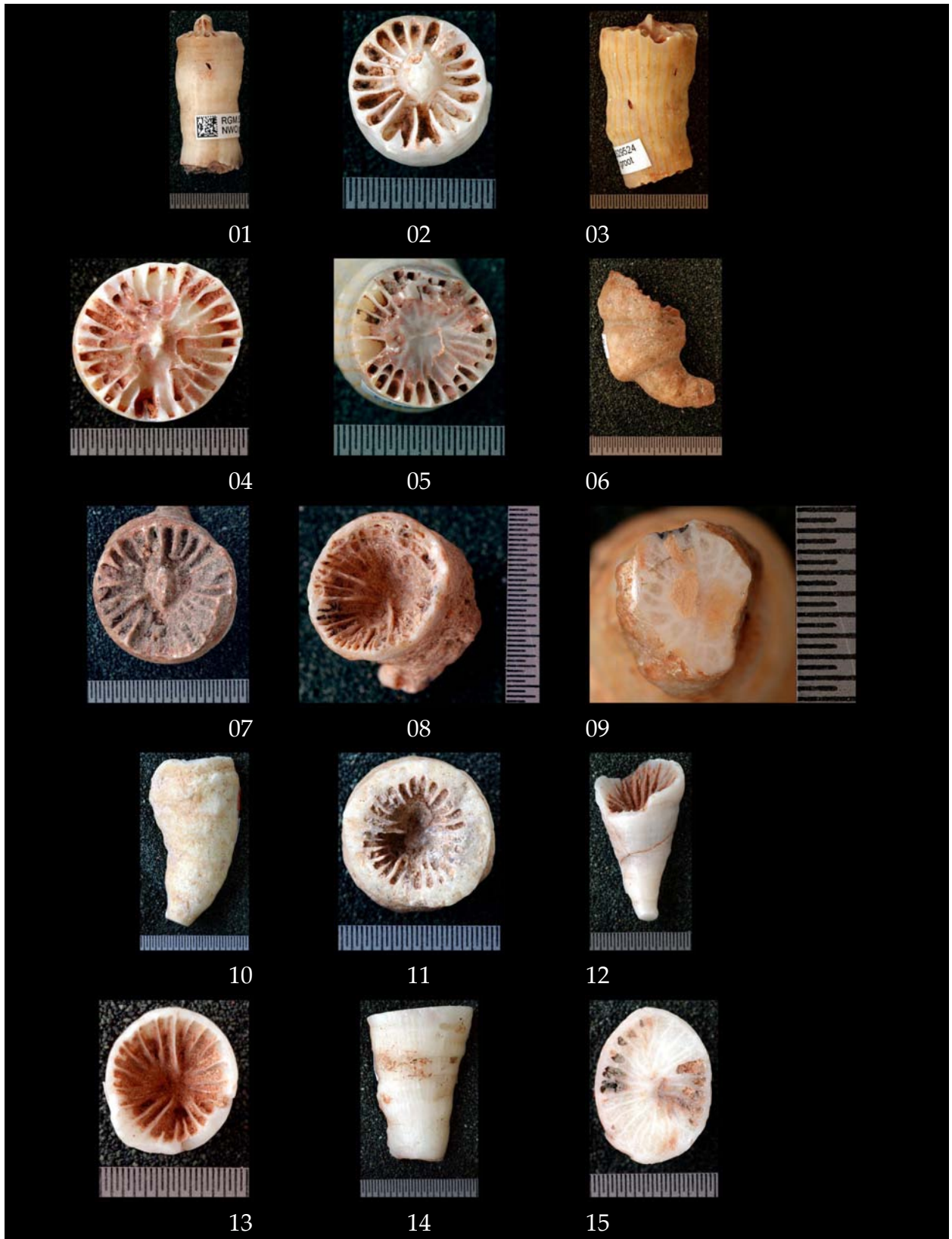
Plate 17



**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 radicumformis radicumformis* (holotype) in Niermann (1975), *Ufimia radicumformis* in Koker (1924) (THDKA 11790, top view)
- Fig. 9. *Ufimia radicumformis radicumformis* (holotype) in Niermann (1975), *Ufimia radicumformis* in Koker (1924) (THDKA 11790, transverse section)
- Fig. 10. *Ufimia radicumformis defecta* (paratype) in Niermann (1975) (RGM 529473, side view)
- Fig. 11. *Ufimia radicumformis defecta* (paratype) in Niermann (1975) (RGM 529473, top view)
- Fig. 12. *Ufimia radicumformis defecta* (paratype) in Niermann (1975) (RGM 529474, side view)
- Fig. 13. *Ufimia radicumformis defecta* (paratype) in Niermann (1975) (RGM 529474, top view)
- Fig. 14. *Ufimia radicumformis radicumformis* (paratype) in Niermann (1975) (RGM 529471, side view)
- Fig. 15. *Ufimia radicumformis radicumformis* (paratype) in Niermann (1975) (RGM 529471, top view)

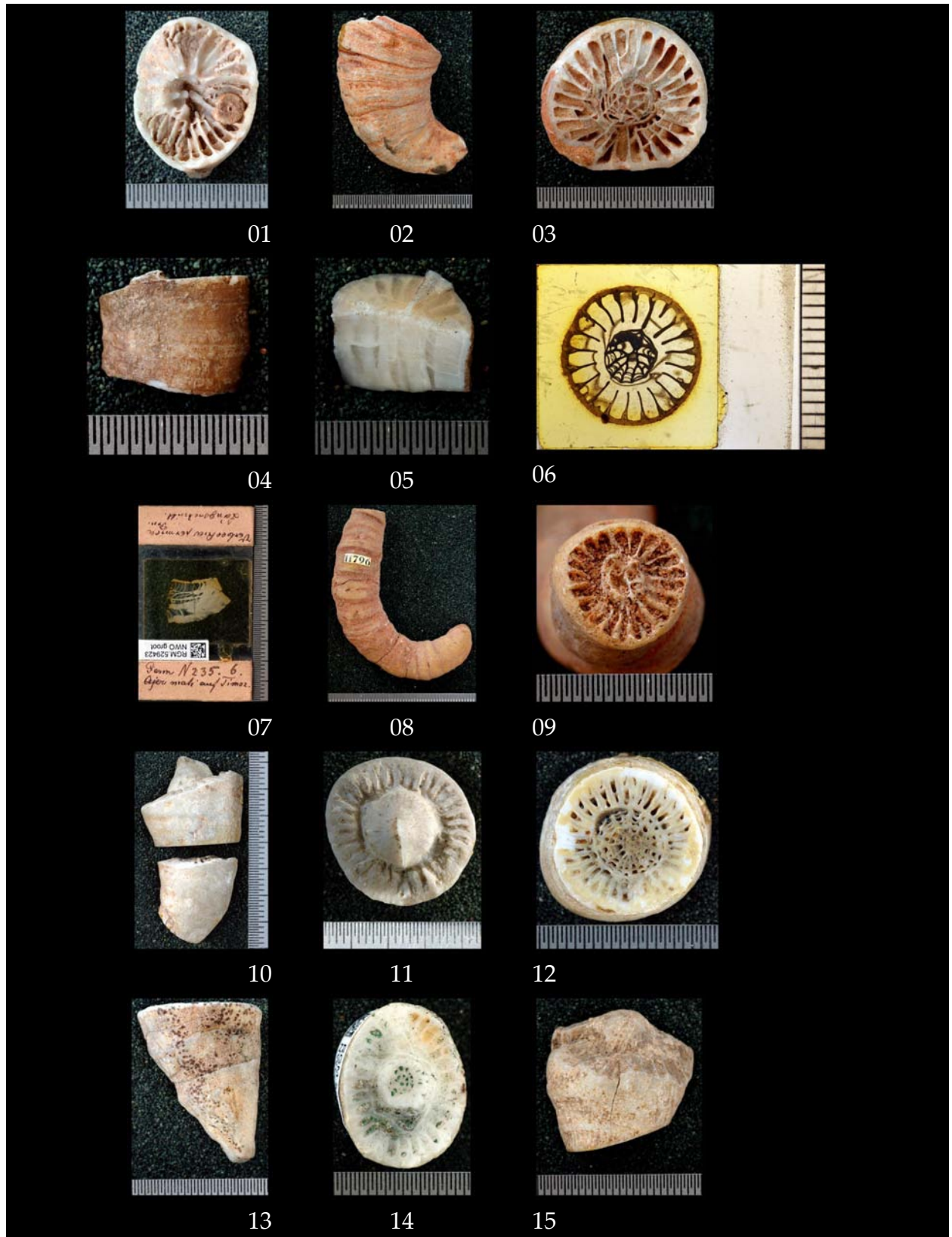
Plate 18



**Plate 19**

- Fig. 1. *Ufimia radiformis radiformis* (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

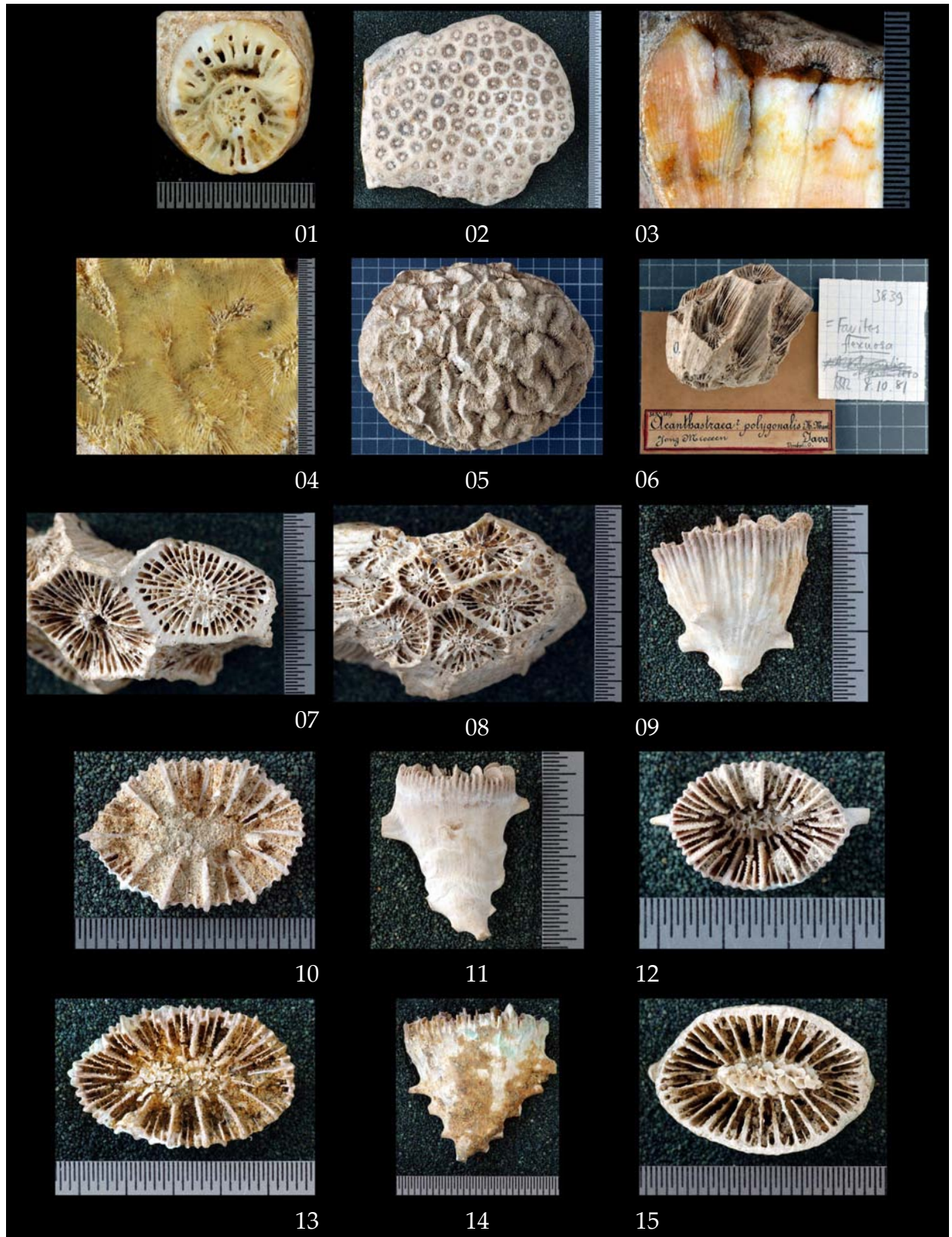


**Plate 20**

- 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)



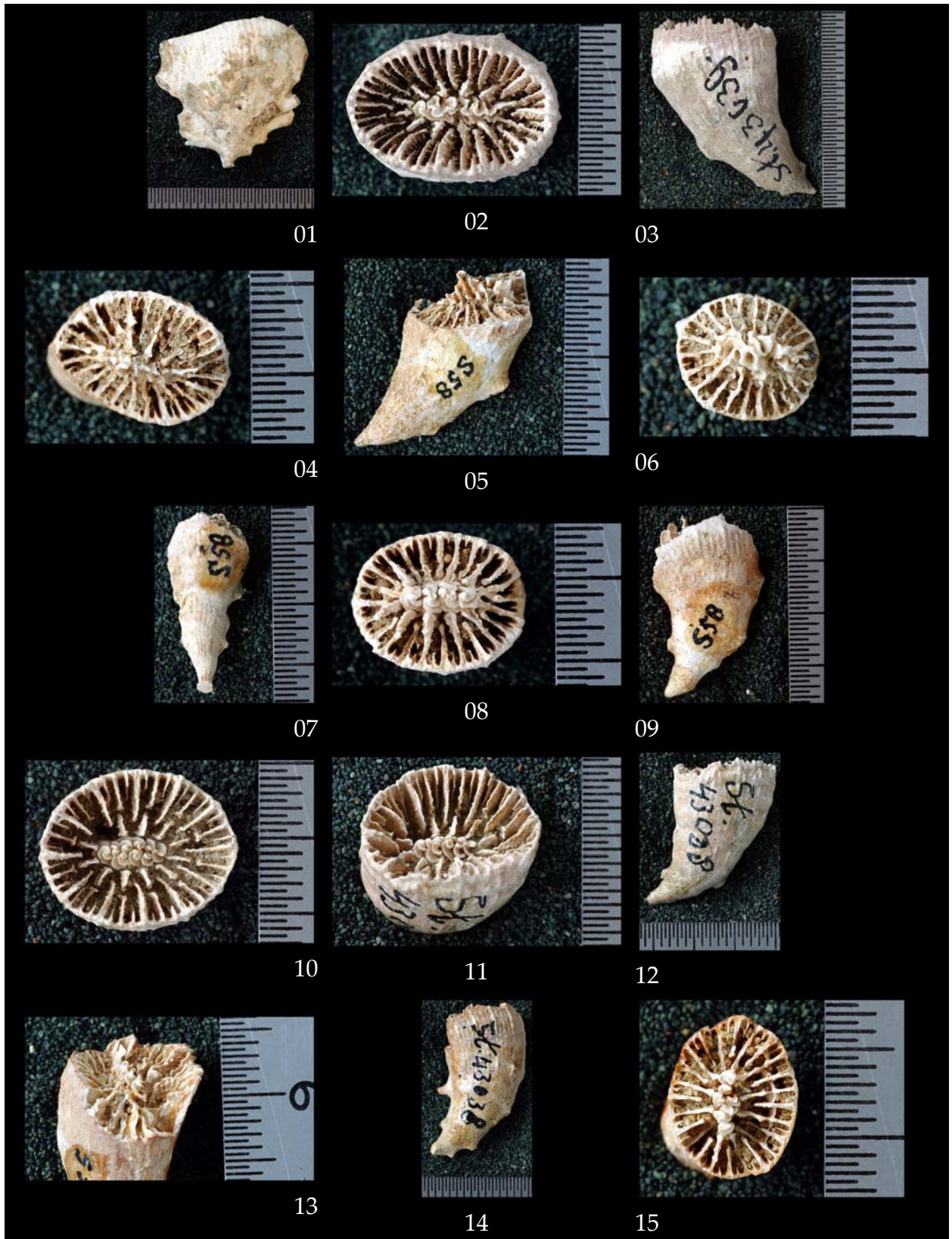
Plate 20



**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)

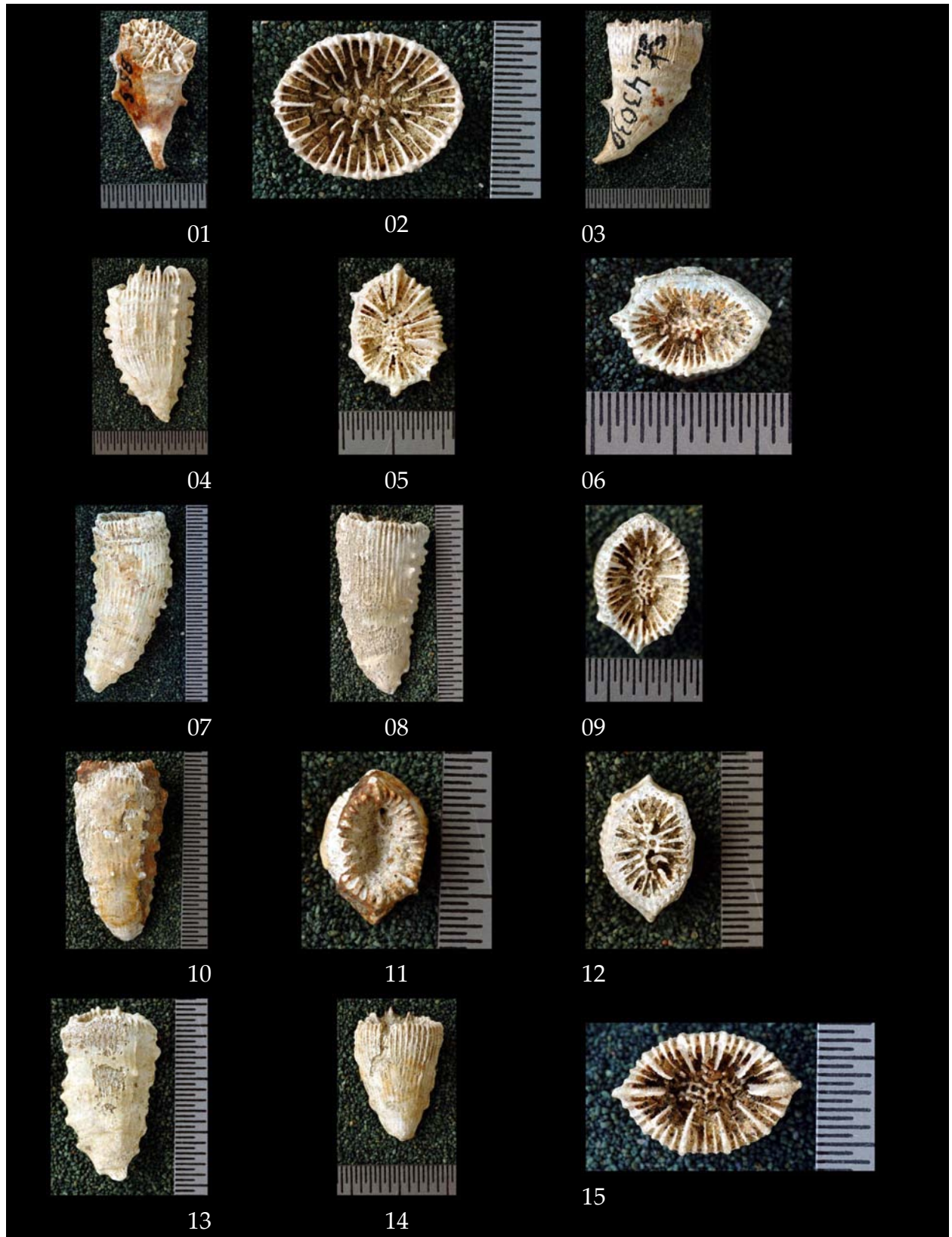
Plate 21



**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

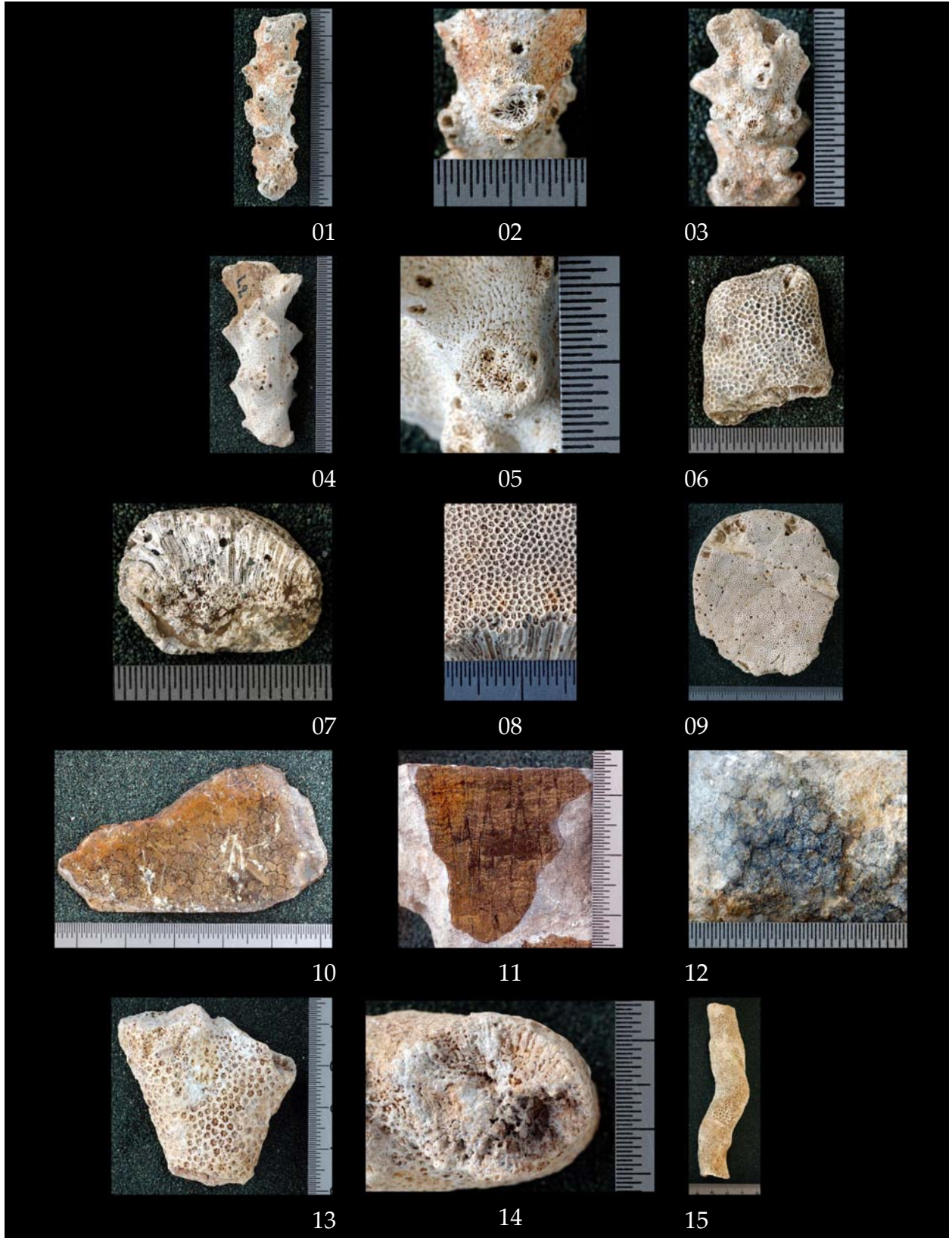


**Plate 24**

- 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)

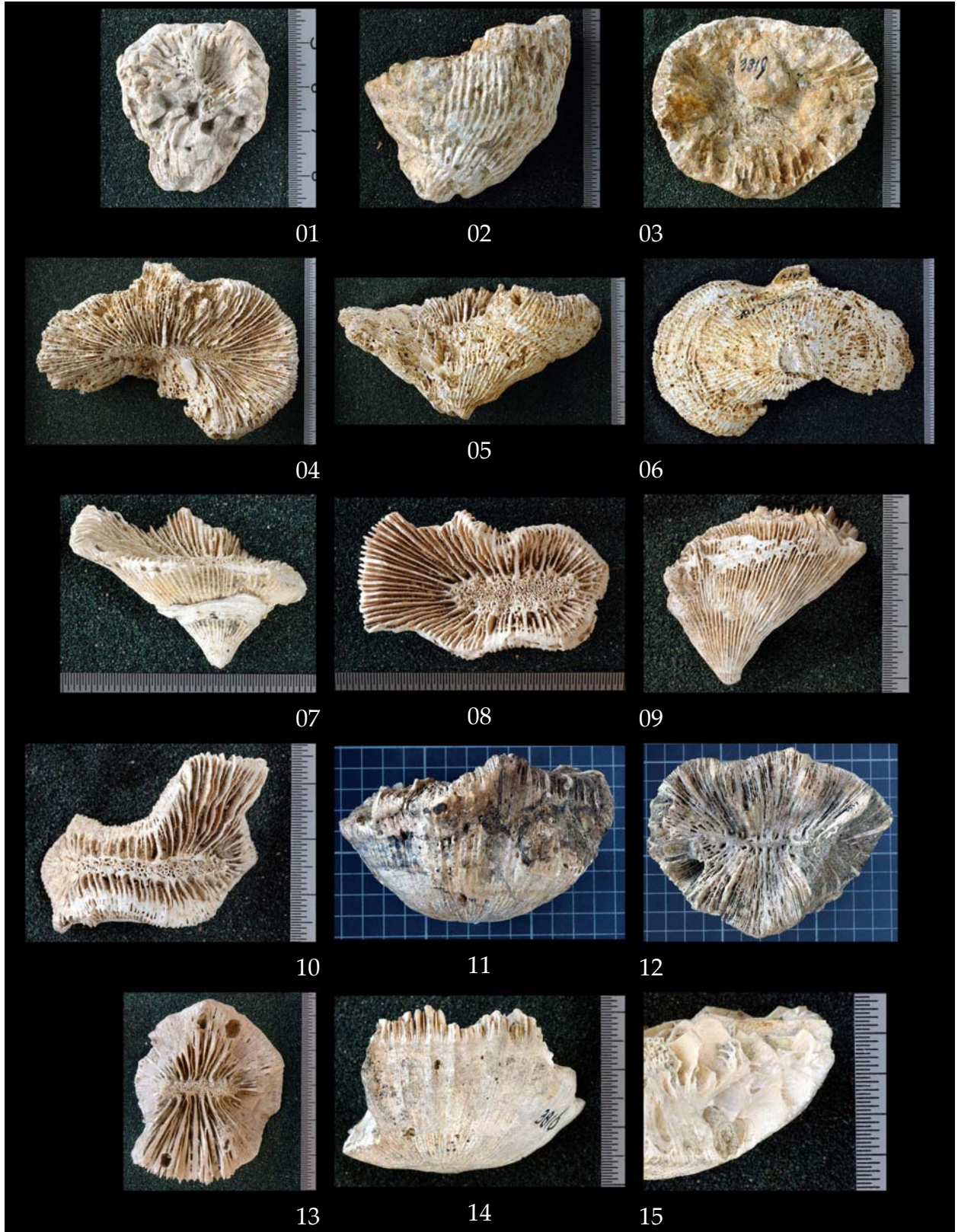
Plate 25



**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)

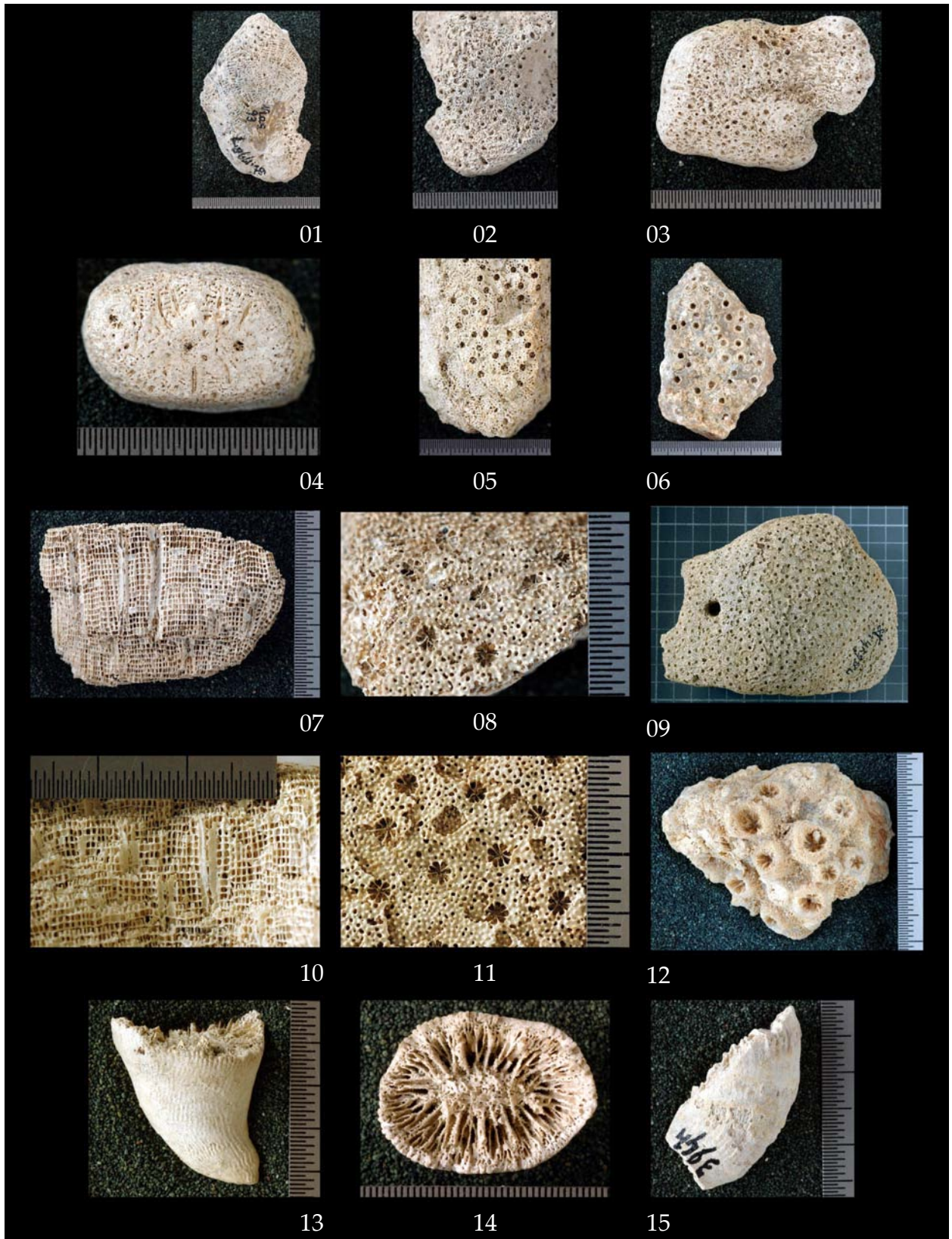
Plate 26



**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 ruttleri* (syntype) in Gerth (1923) (RGM 42983, side view)  
Fig. 8. *Astreopora ruttleri* (syntype) in Gerth (1923) (RGM 42983, top view)  
Fig. 9. *Astreopora ruttleri* (syntype) in Gerth (1923) (RGM 42984, top view)  
Fig. 10. *Astreopora ruttleri* (syntype) in Gerth (1923) (RGM 42984, tangential section)  
Fig. 11. *Astreopora ruttleri* (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)



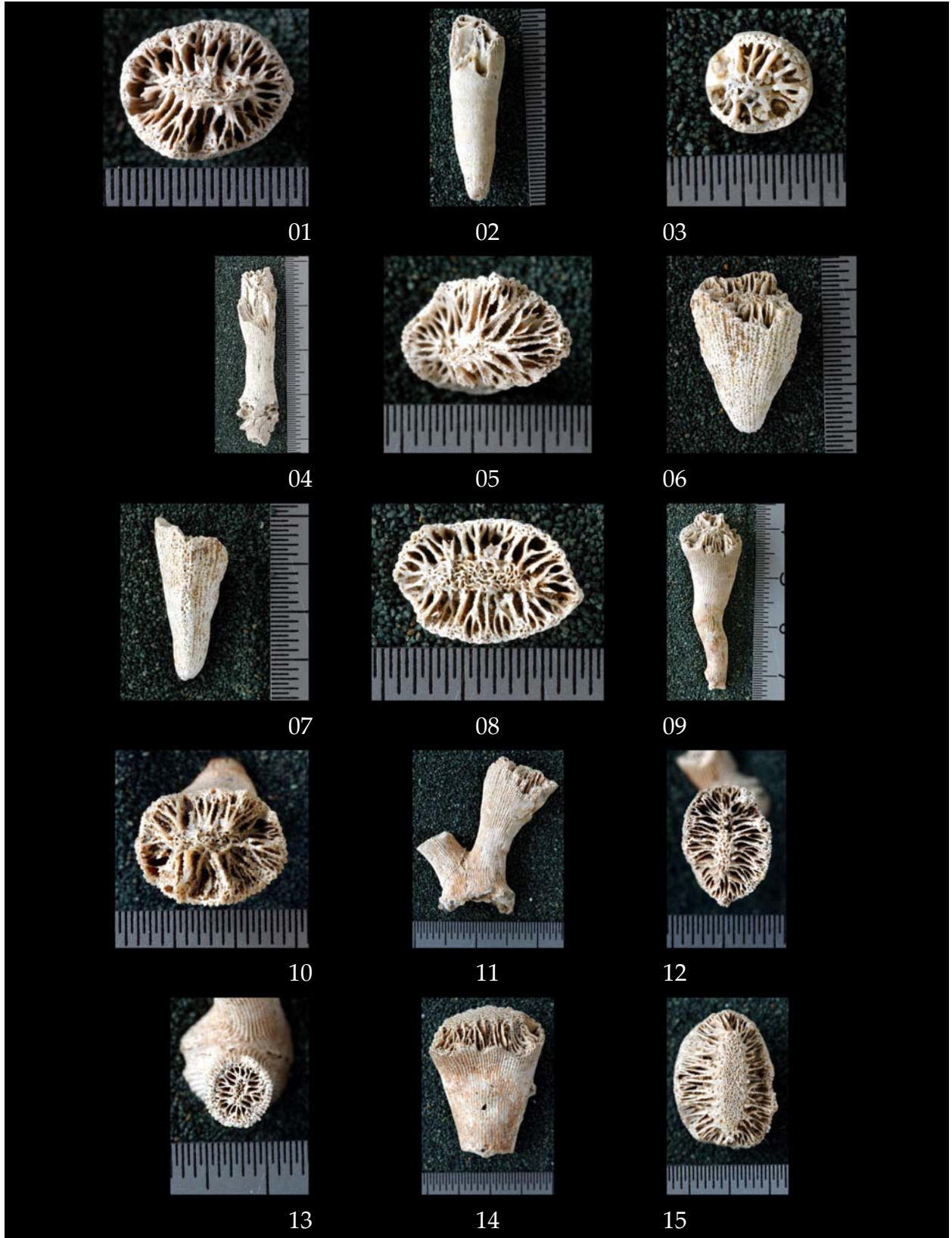
Plate 28



**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

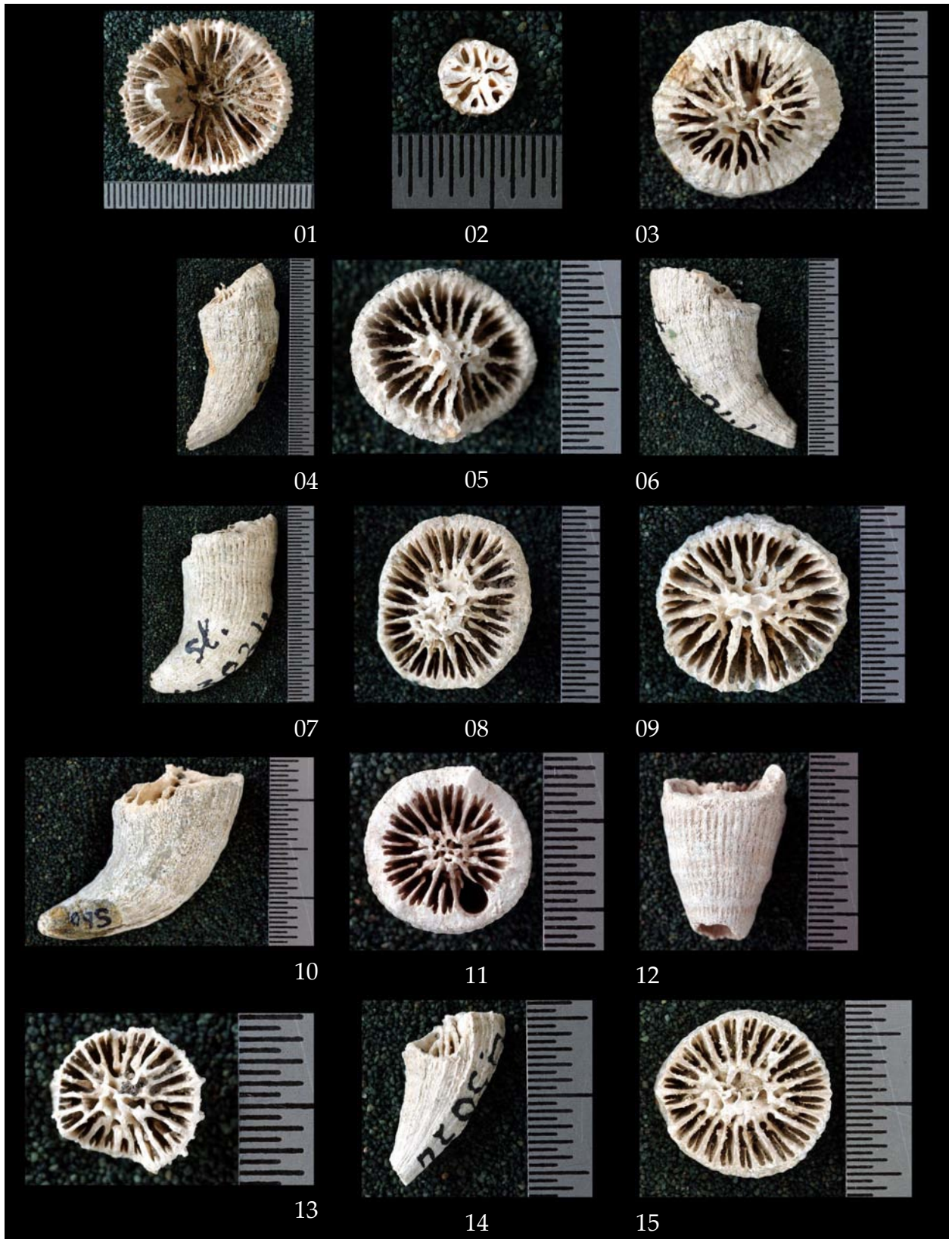


**Plate 32**

- 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)

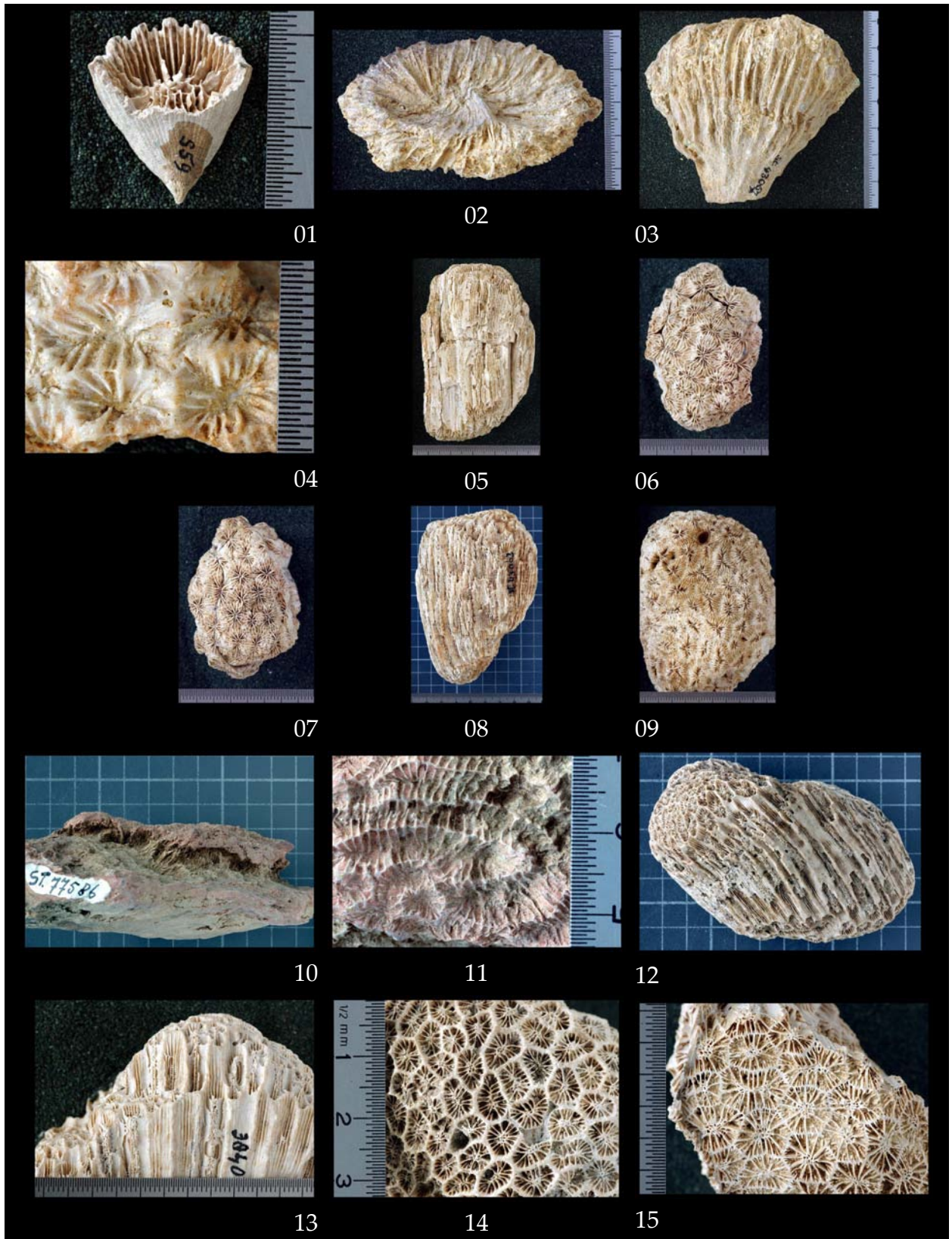
Plate 33



**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. *Coelastreaa 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)

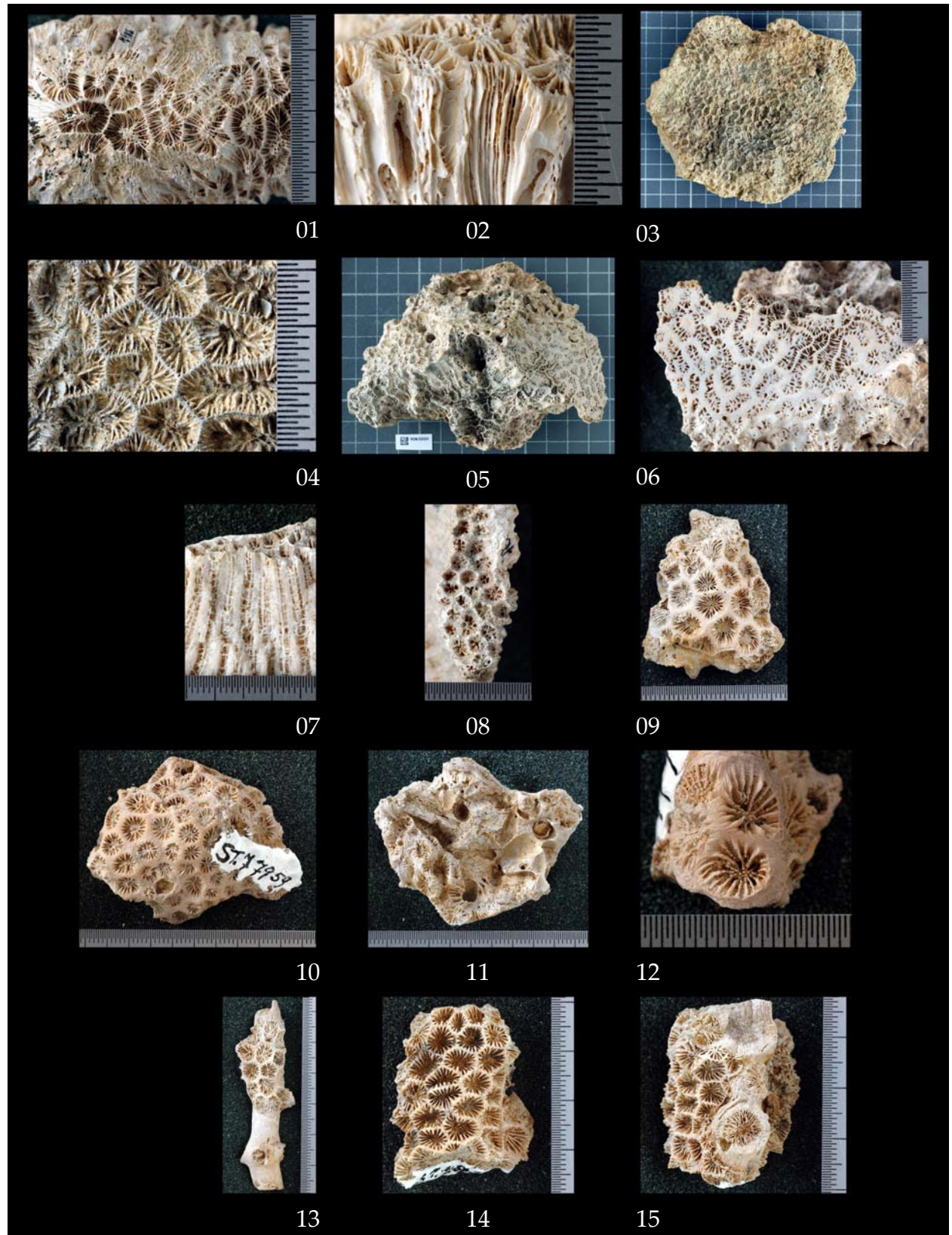
Plate 34



**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

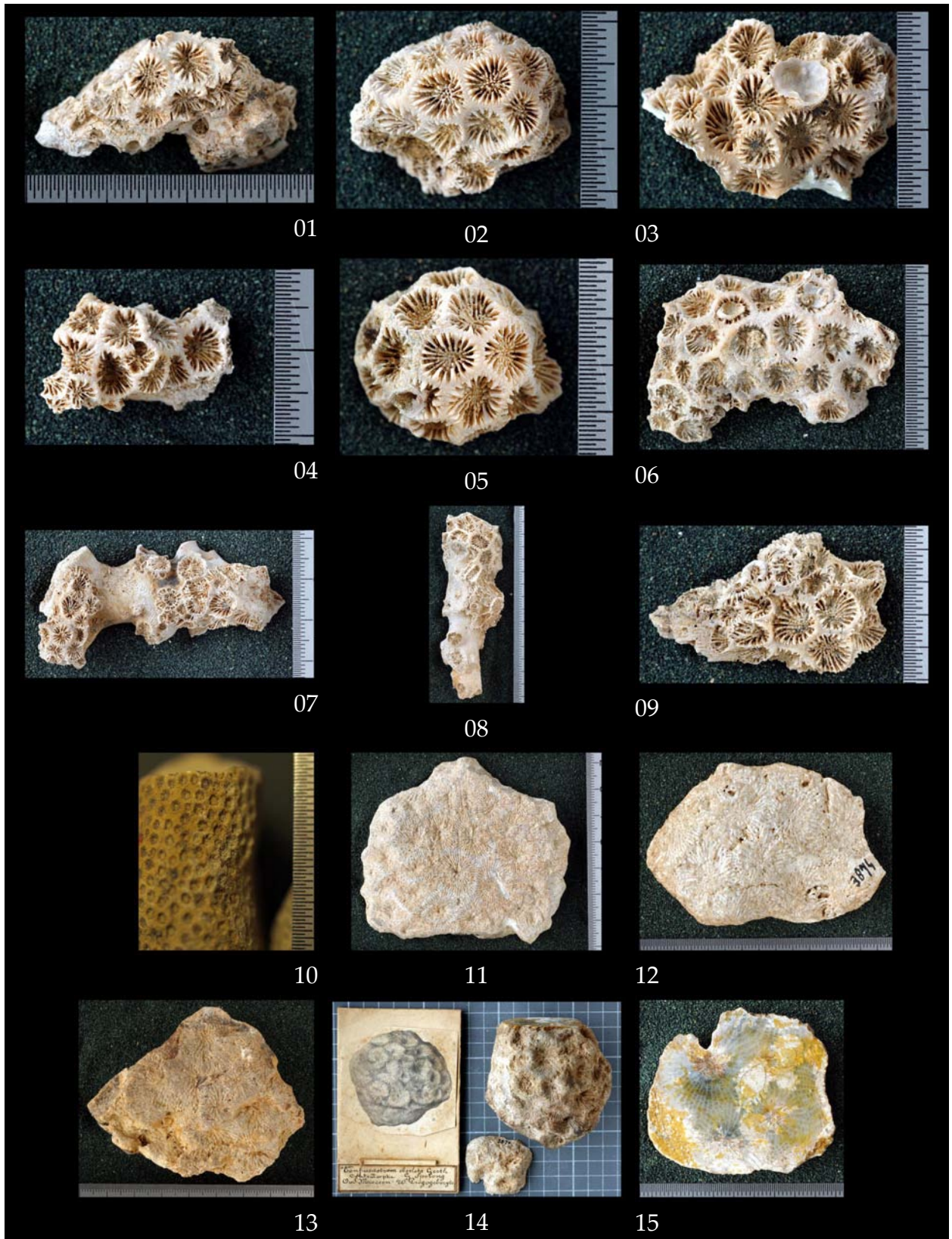


**Plate 36**

- 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

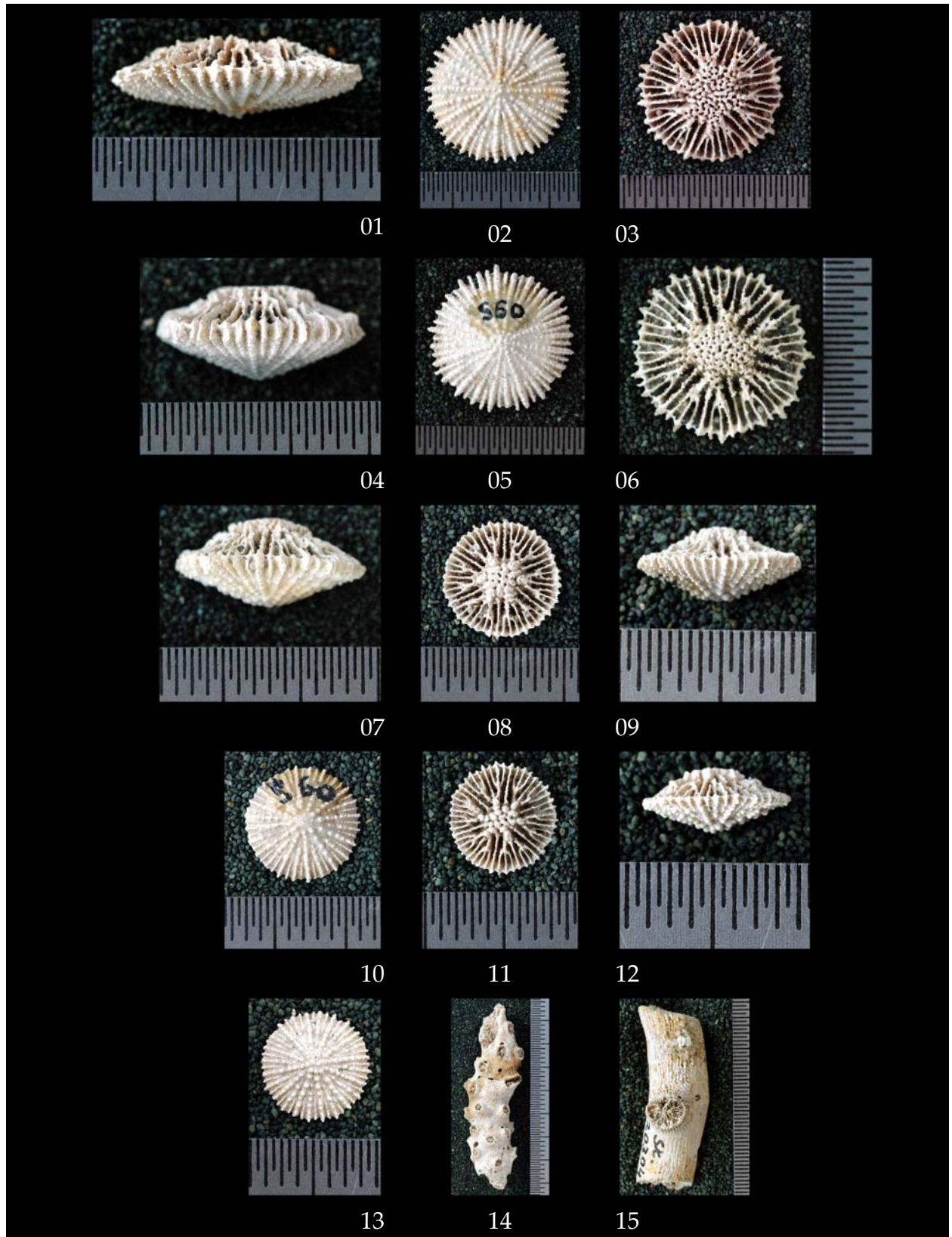


**Plate 40**

- 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)



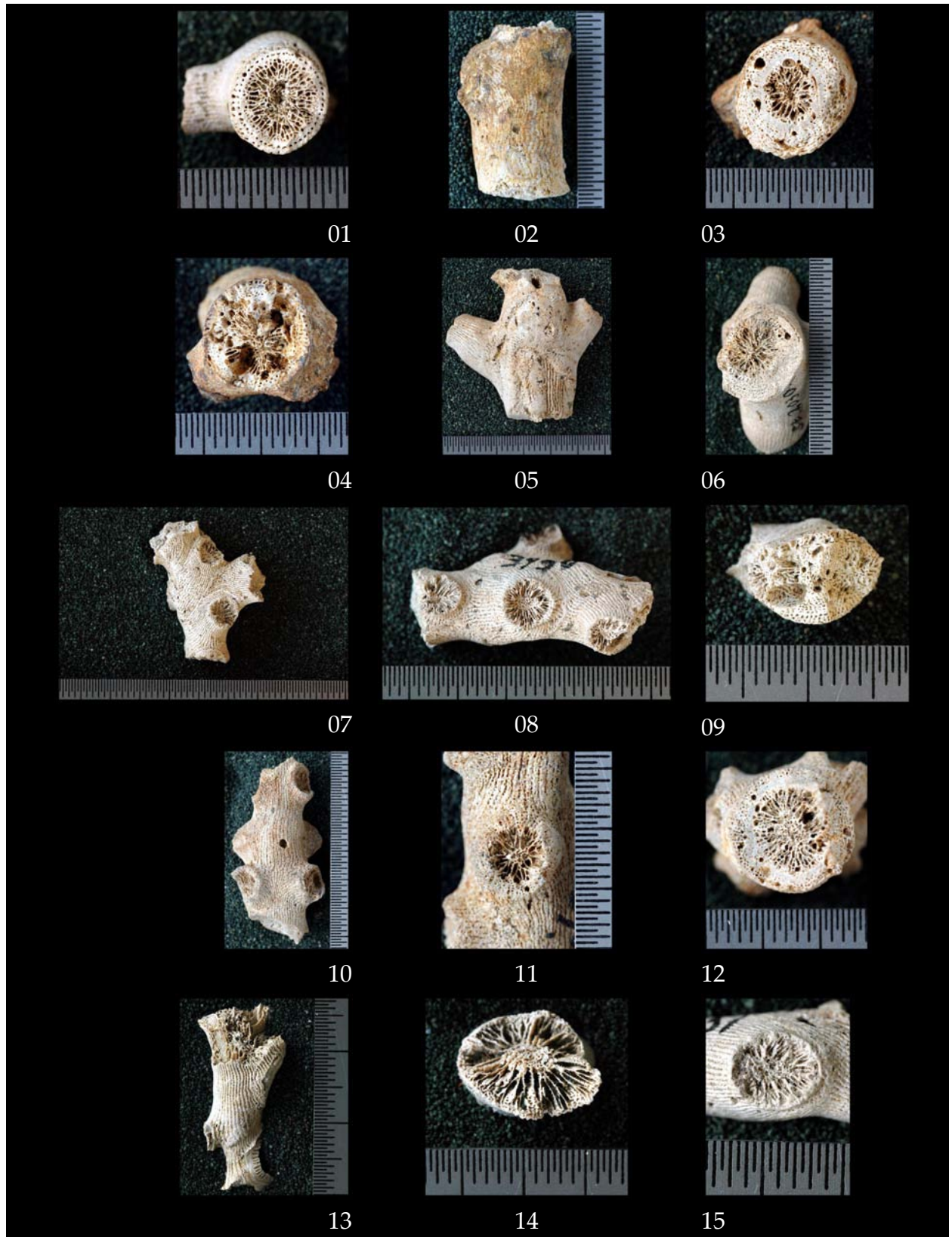
Plate 40



**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)

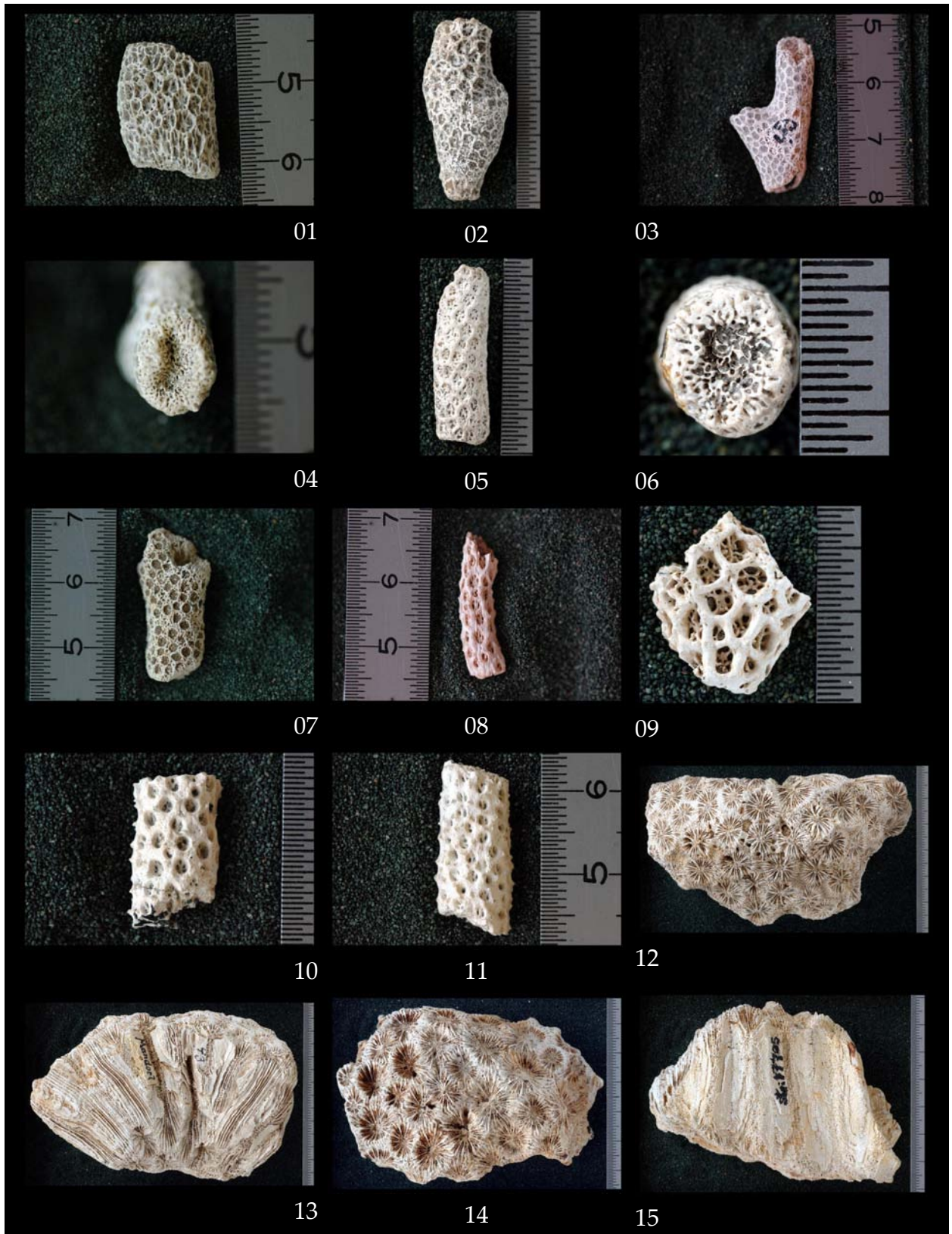
Plate 41



**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. *Diplohelix complanata* (syntype) in Gerth (1923) (RGM 43005, side view)  
Fig. 2. *Diplohelix complanata* (syntype) in Gerth (1923) (RGM 43005, top view)  
Fig. 3. *Diplohelix complanata* (syntype) in Gerth (1923) (RGM 167799, side view)  
Fig. 4. *Diplohelix complanata* (syntype) in Gerth (1923) (RGM 167799, top view)  
Fig. 5. *Diplohelix complanata* (syntype) in Gerth (1923) (RGM 525391, side view)  
Fig. 6. *Diplohelix complanata* (syntype) in Gerth (1923) (RGM 525391, top view)  
Fig. 7. *Diplohelix complanata* (syntype) in Gerth (1923) (RGM 525392, side view)  
Fig. 8. *Diplohelix complanata* (syntype) in Gerth (1923) (RGM 525392, top view)  
Fig. 9. *Diplohelix malayica* (syntype) in Gerth (1923), syntype in Gerth (1921c) (RGM 17702, side view)  
Fig. 10. *Diplohelix malayica* (syntype) in Gerth (1921c) (RGM 167562, side view)  
Fig. 11. *Diplohelix malayica* (syntype) in Gerth (1921c) (RGM 167562, transverse section)  
Fig. 12. *Diplohelix malayica* (syntype) in Gerth (1921c) (RGM 3937, side view)  
Fig. 13. *Diplohelix malayica* (syntype) in Gerth (1921c) (RGM 3938, side view)  
Fig. 14. *Diplohelix malayica* (syntype) in Gerth (1921c) (RGM 3938, side view)  
Fig. 15. *Diplohelix malayica* (syntype) in Gerth (1921c) (RGM 3938, side view)

Plate 43

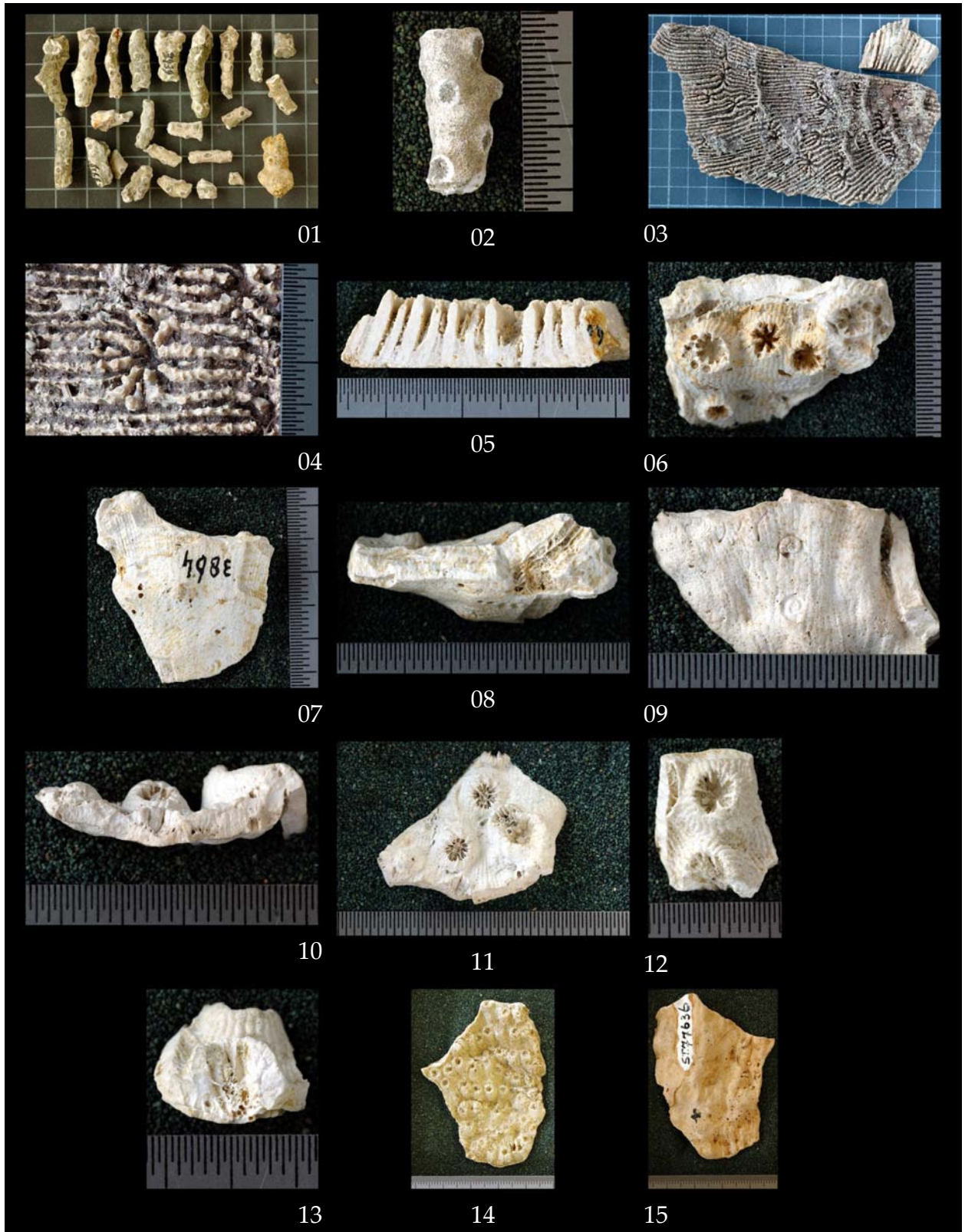


**Plate 44**

- Fig. 1. *Diplohelix malayica* (syntype) in Gerth (1921c) (RGM 3939, side view)  
Fig. 2. *Diplohelix 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)



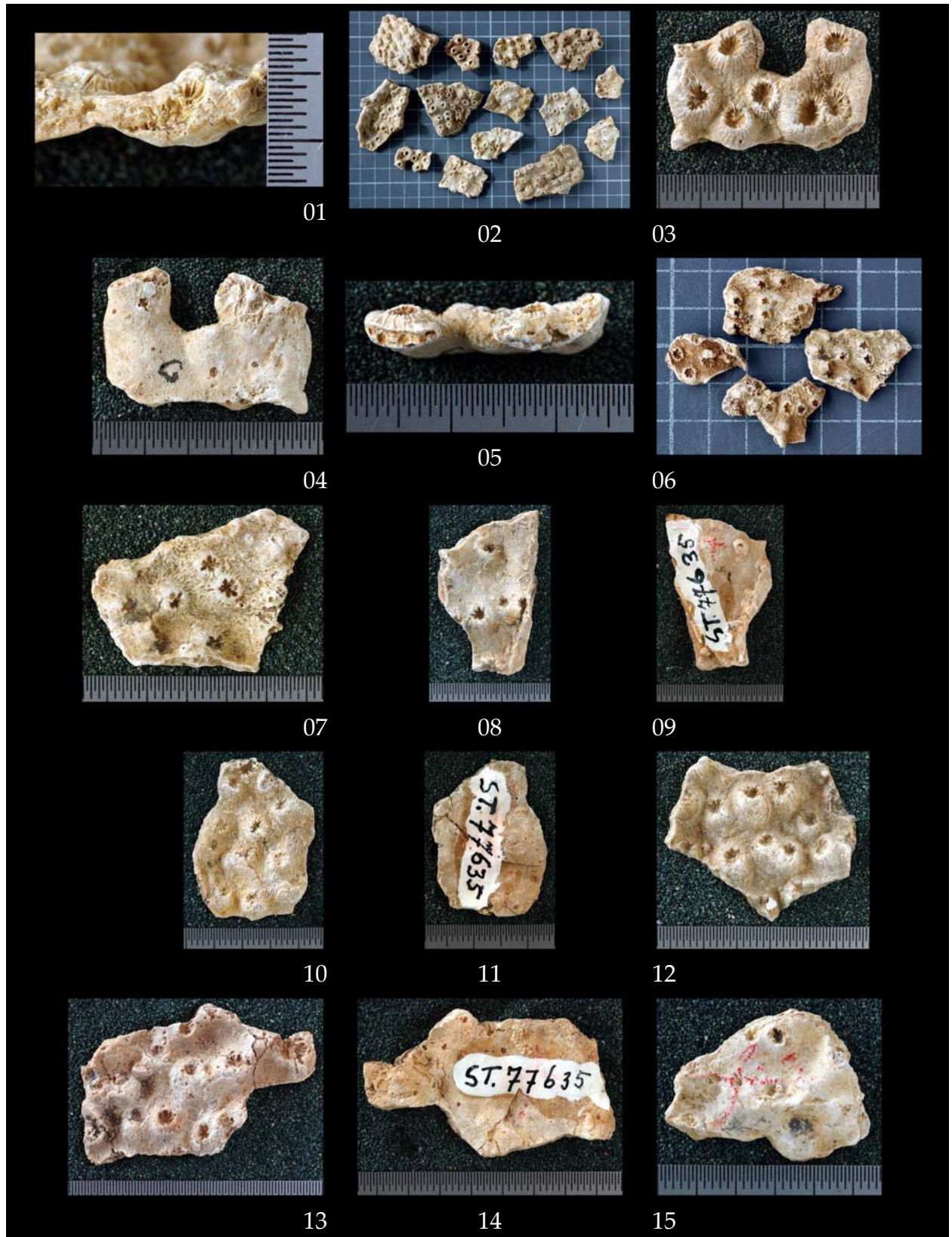
Plate 44



**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)

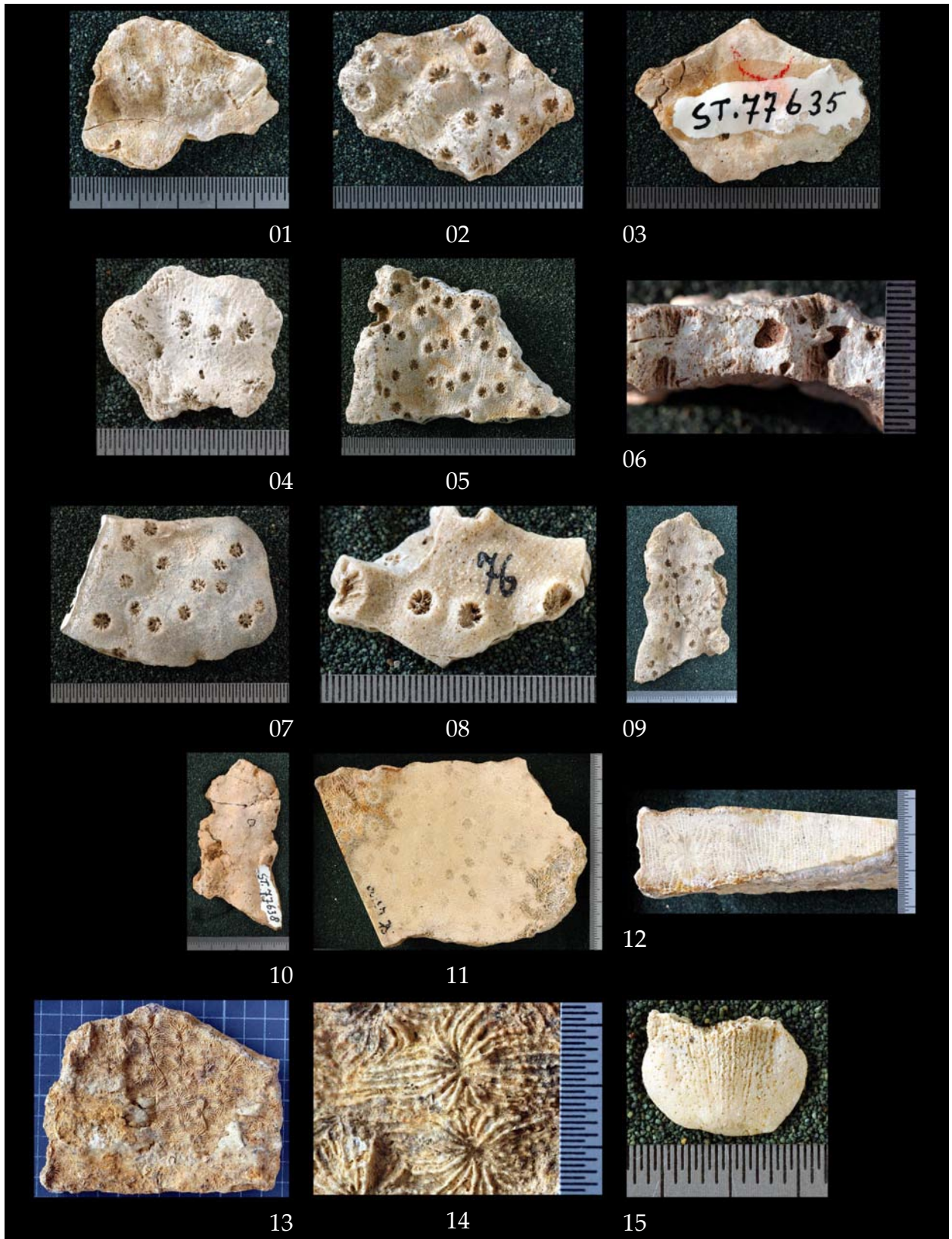
Plate 45



**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

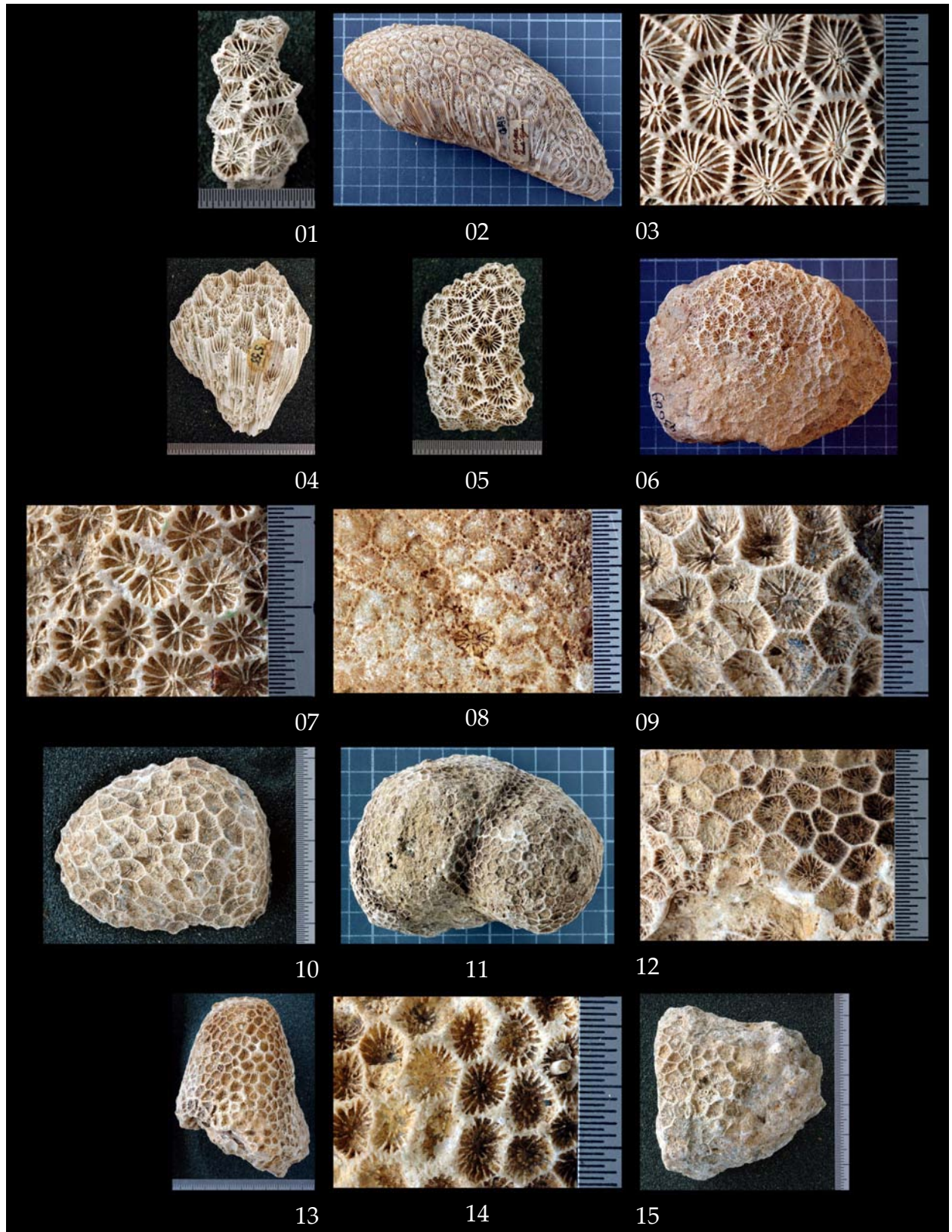


**Plate 48**

- 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)

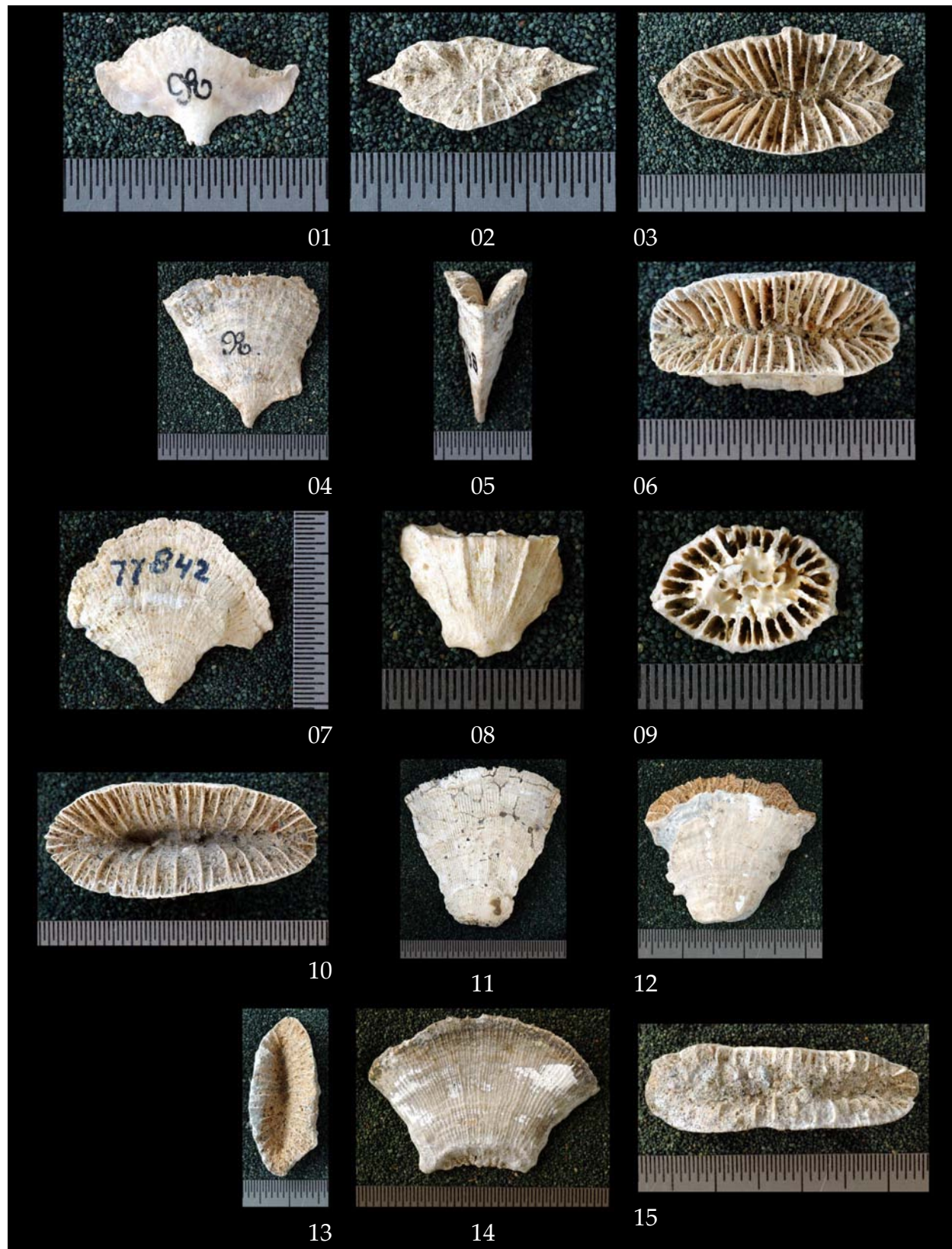
Plate 49



**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)

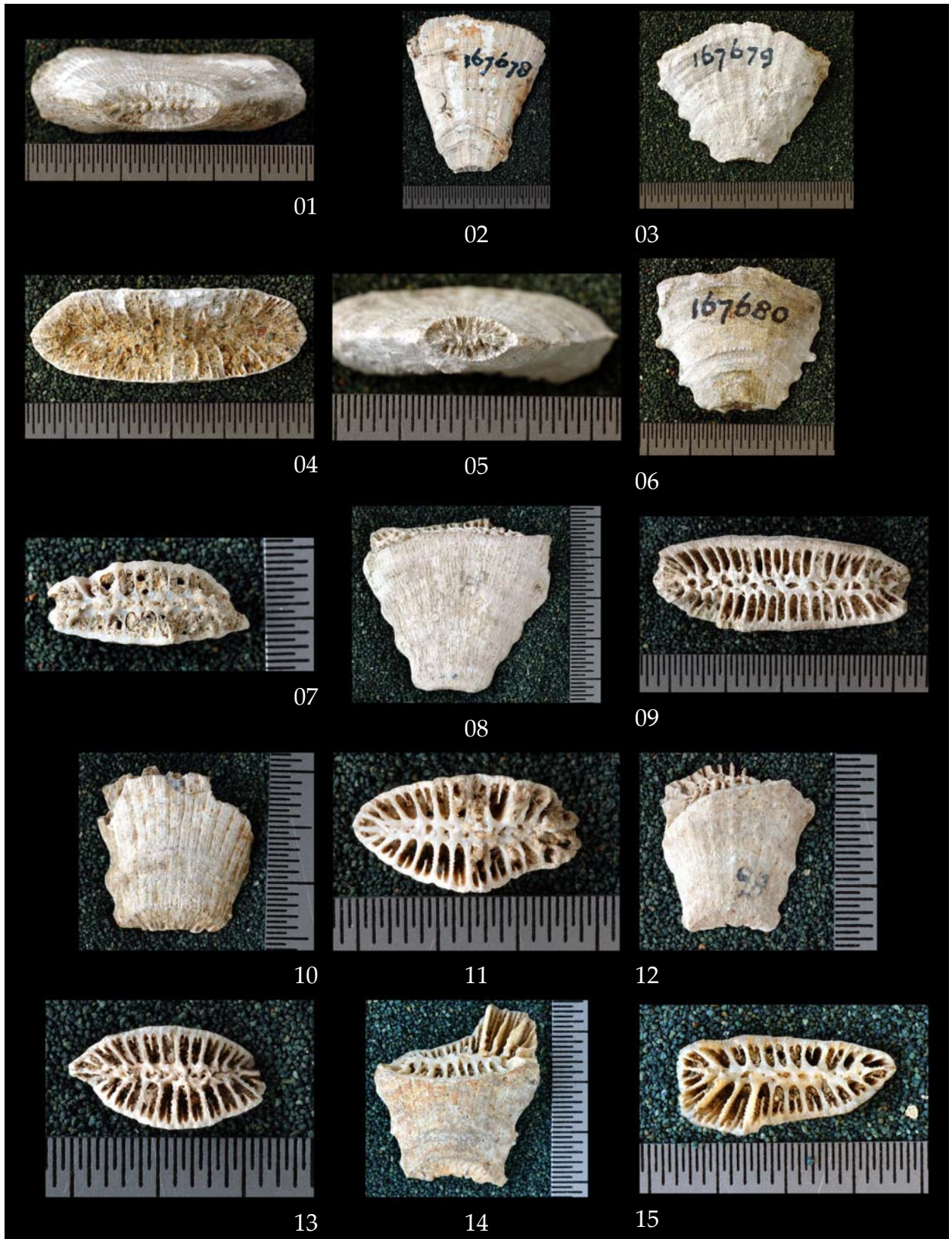
Plate 50



**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

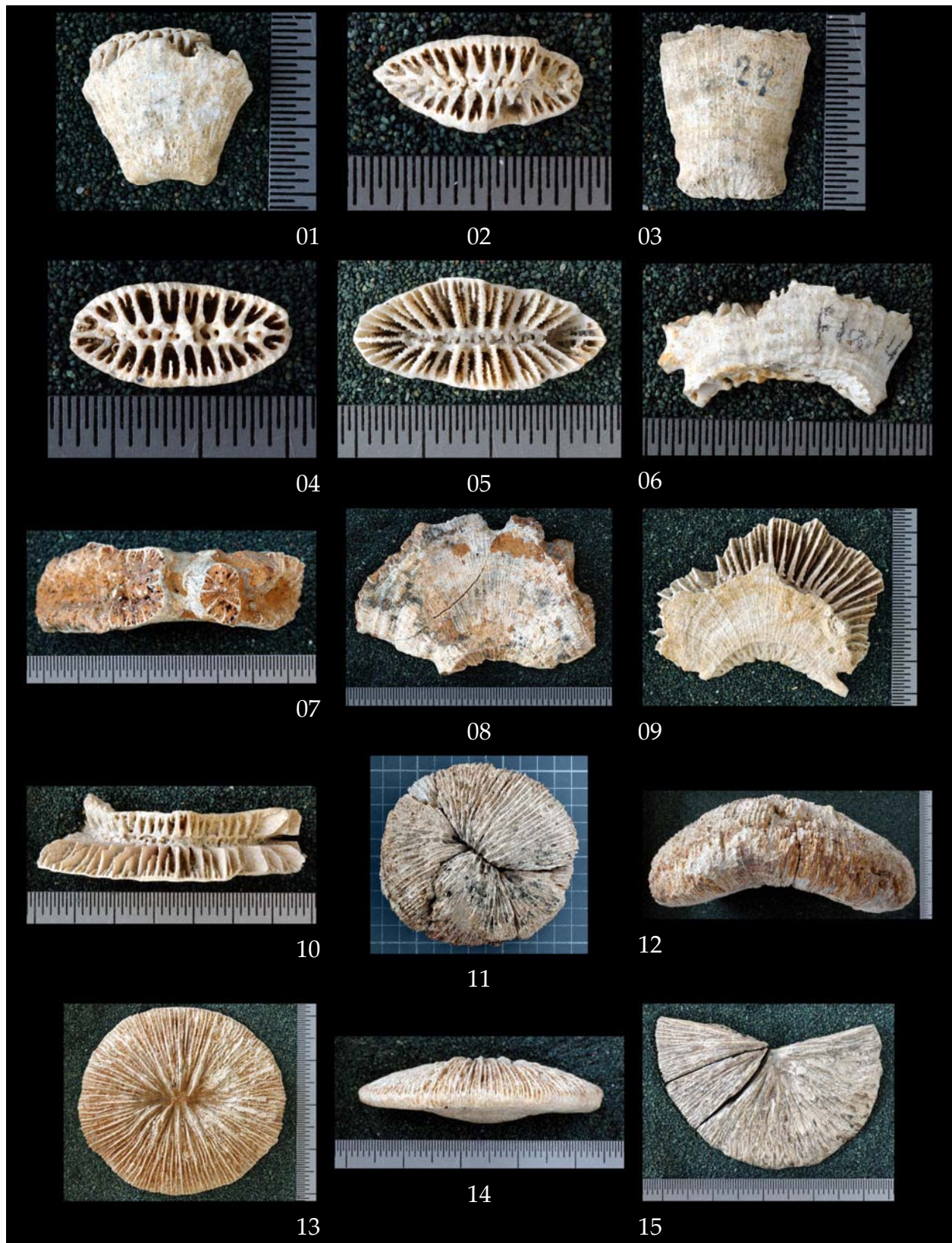


**Plate 52**

- 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)



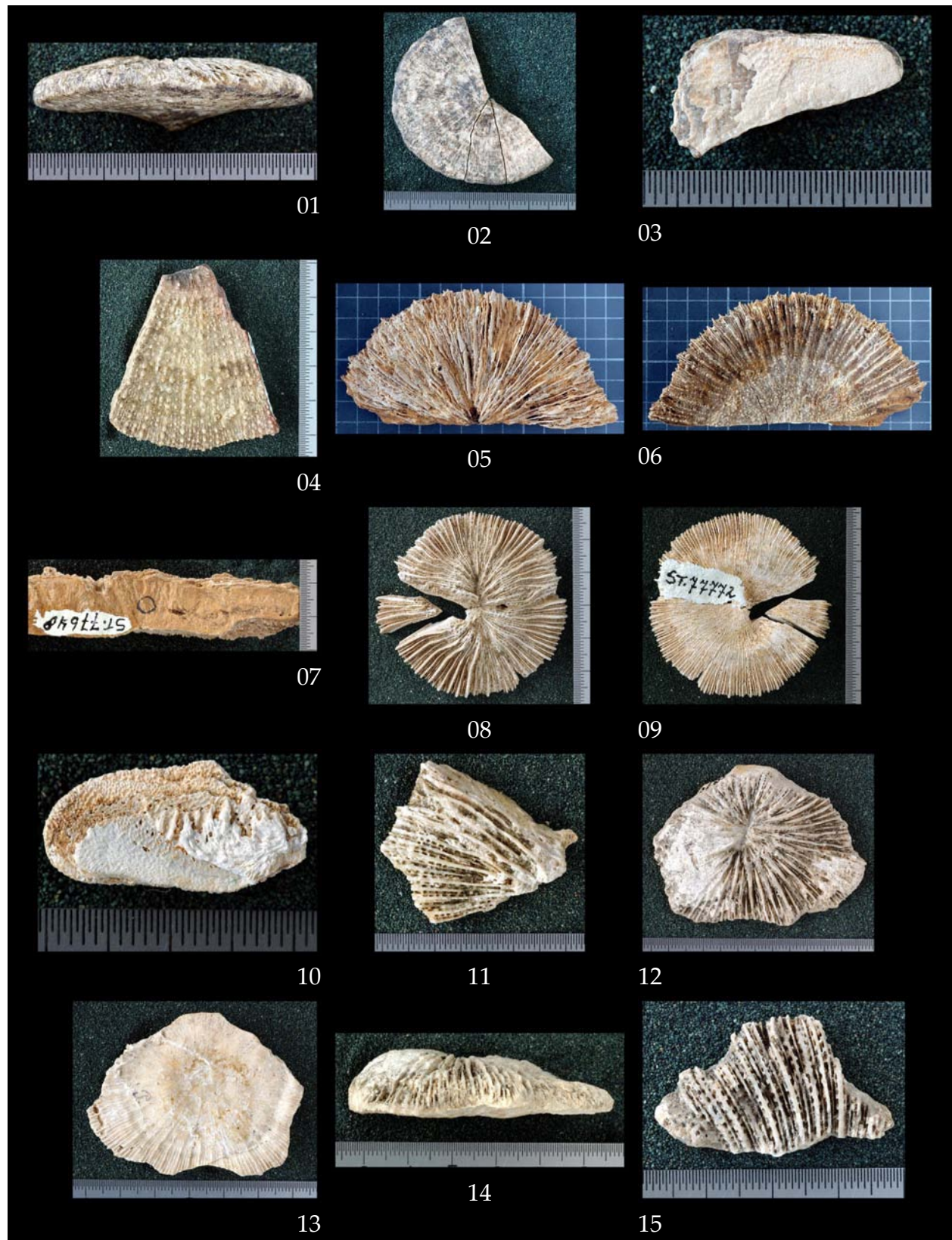
Plate 52



**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)

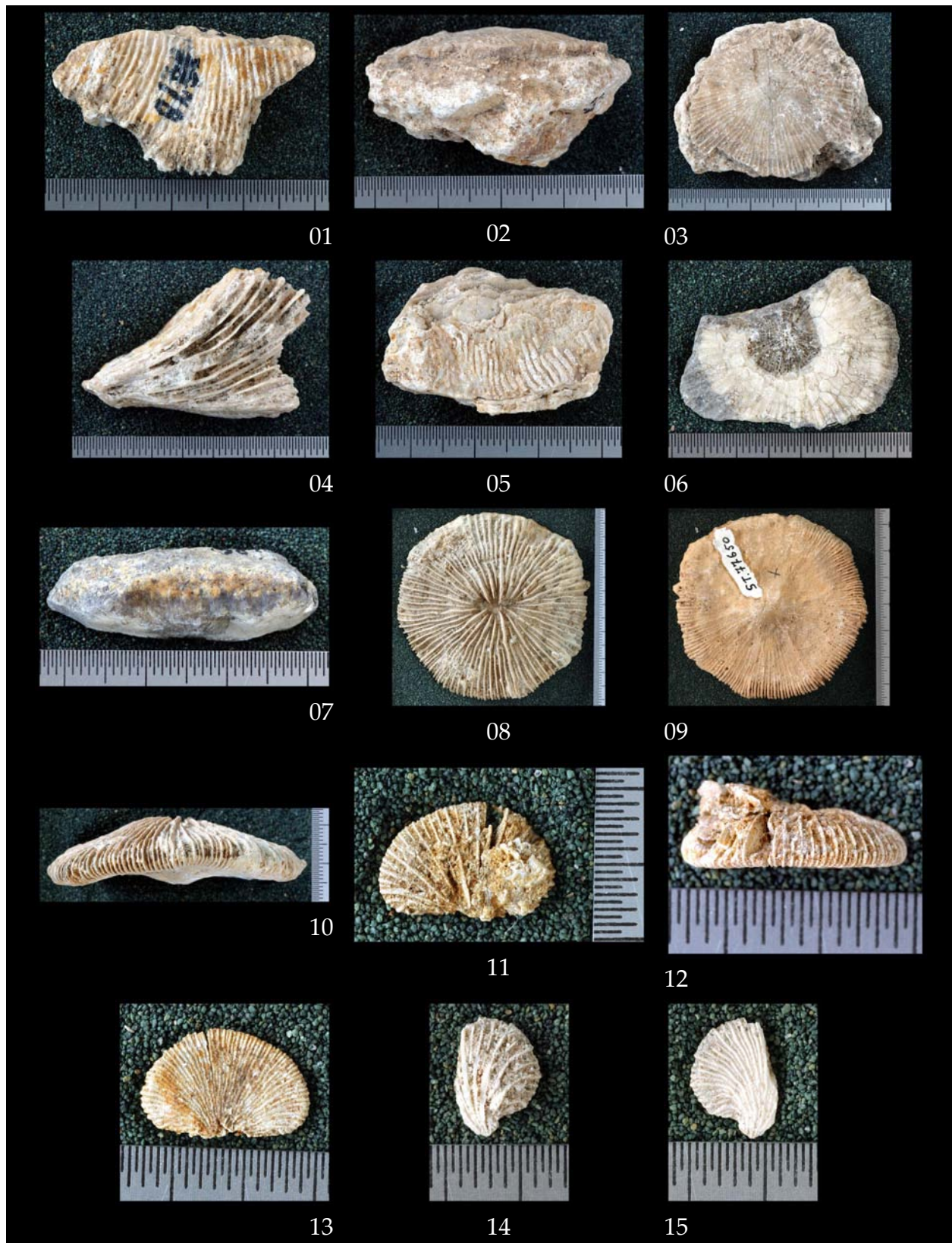
Plate 53



**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



**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)

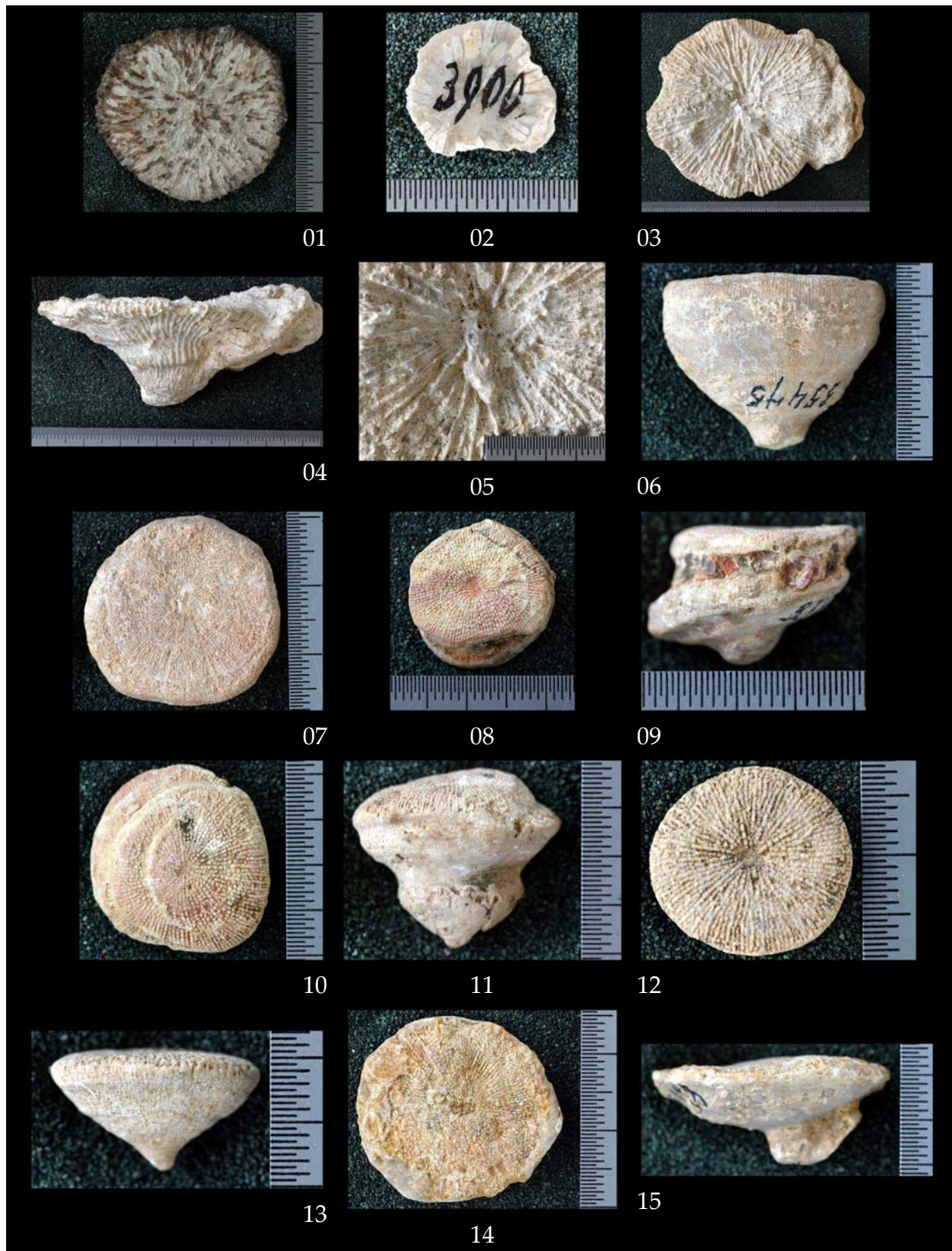
Plate 57



**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. *Gyrosmlia diadema* (holotype) in Umbgrove (1950) (RGM 77970, top view)  
Fig. 8. *Gyrosmlia 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  $\pm 4.45$  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)

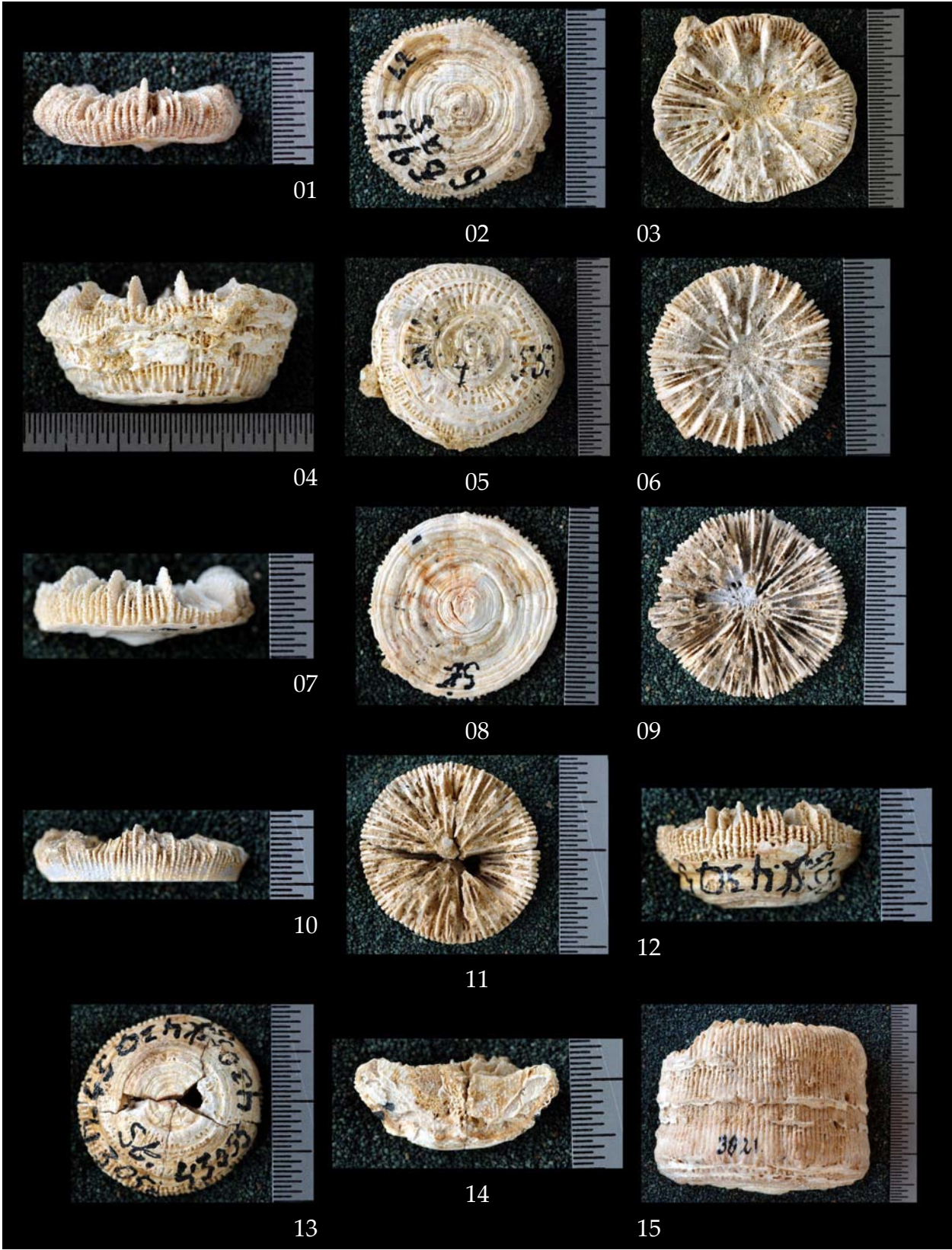
Plate 65



**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)

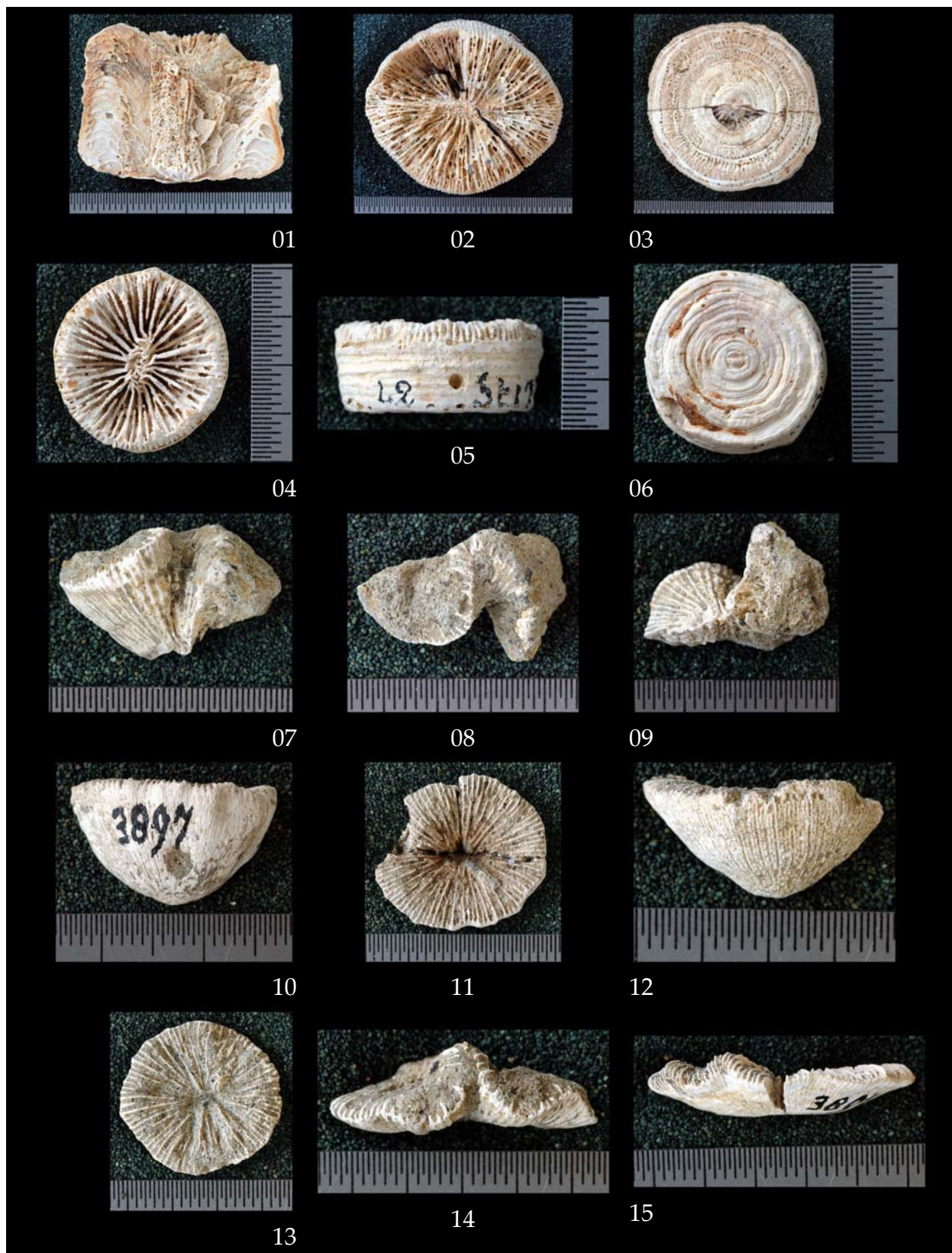
Plate 66



**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)



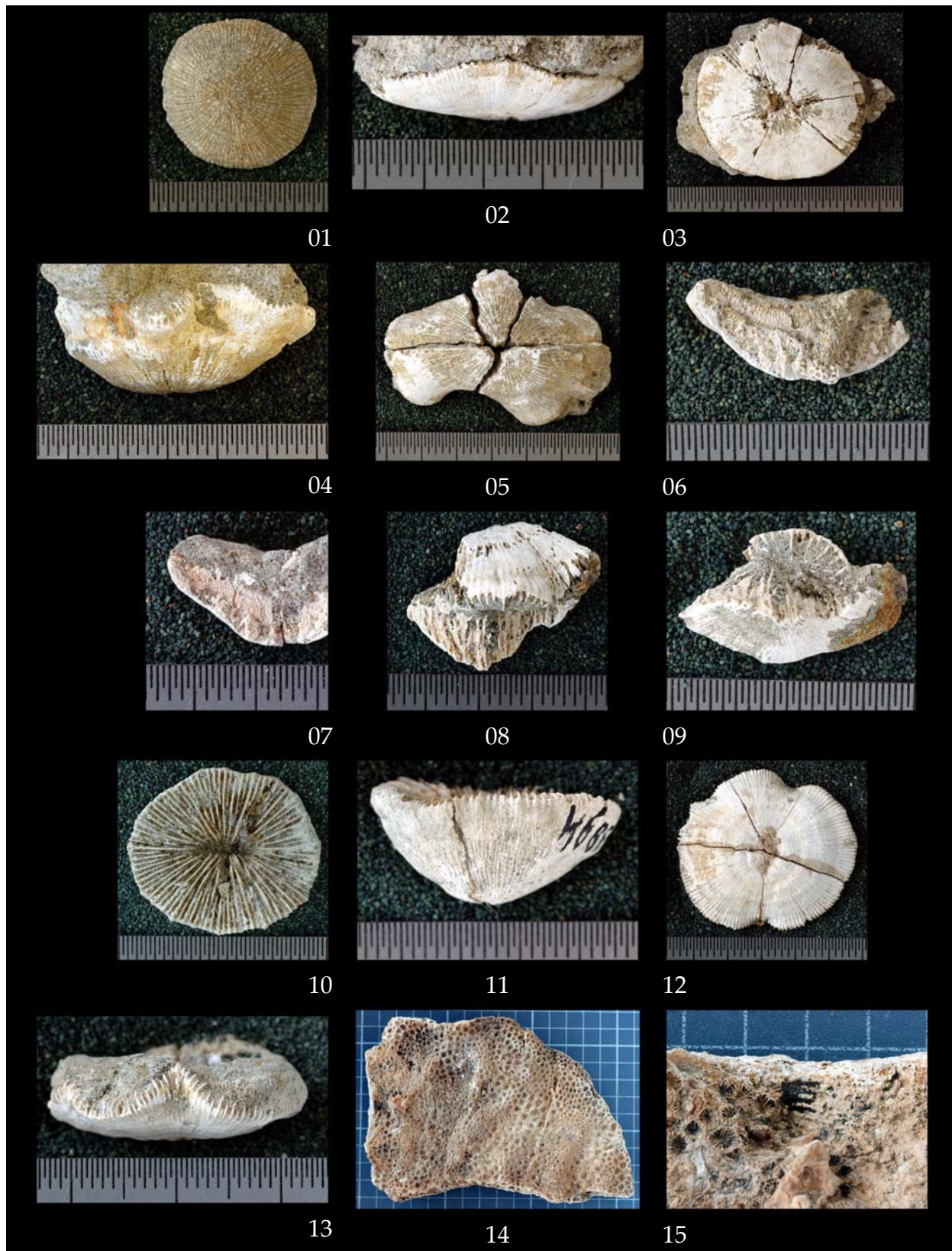
Plate 68



**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)

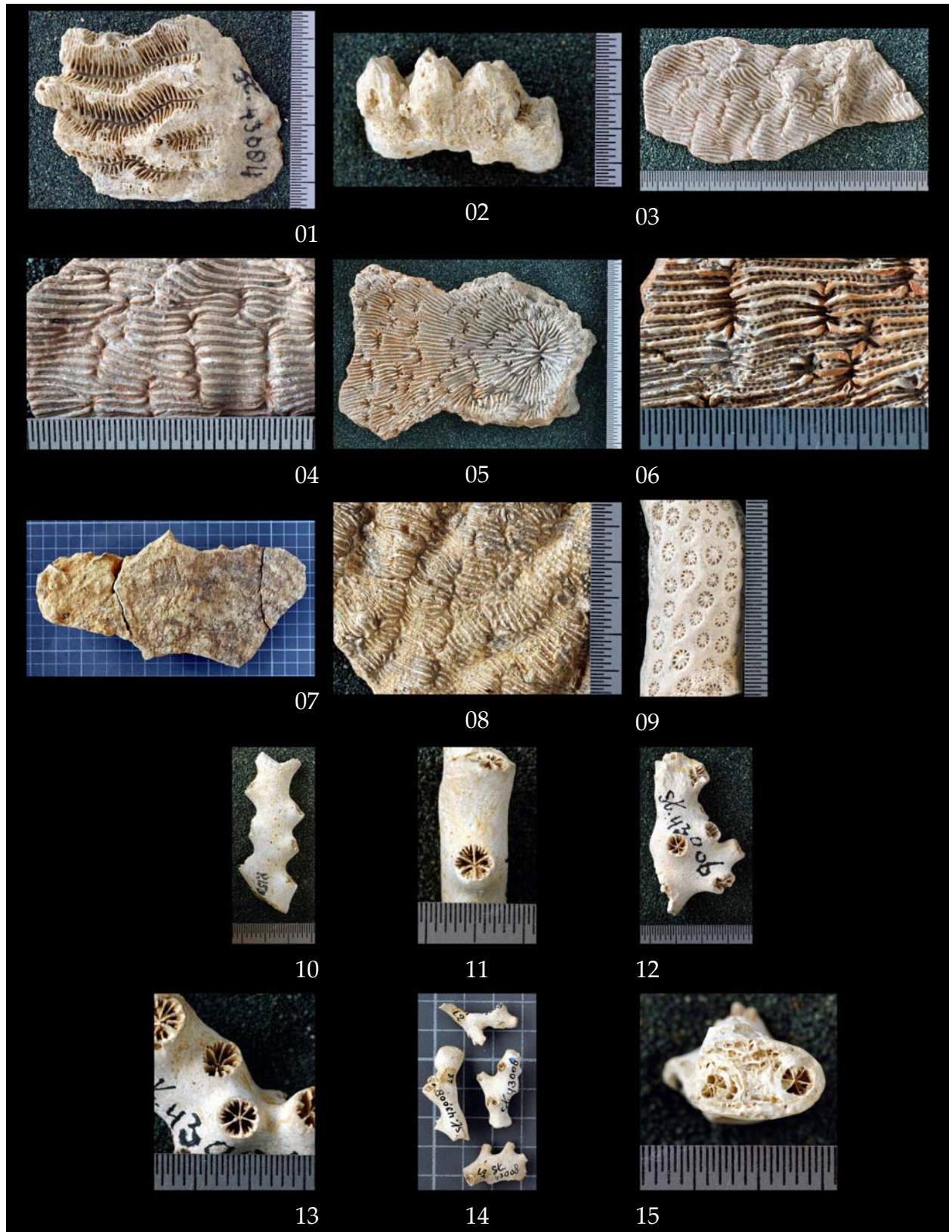
Plate 69



**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)

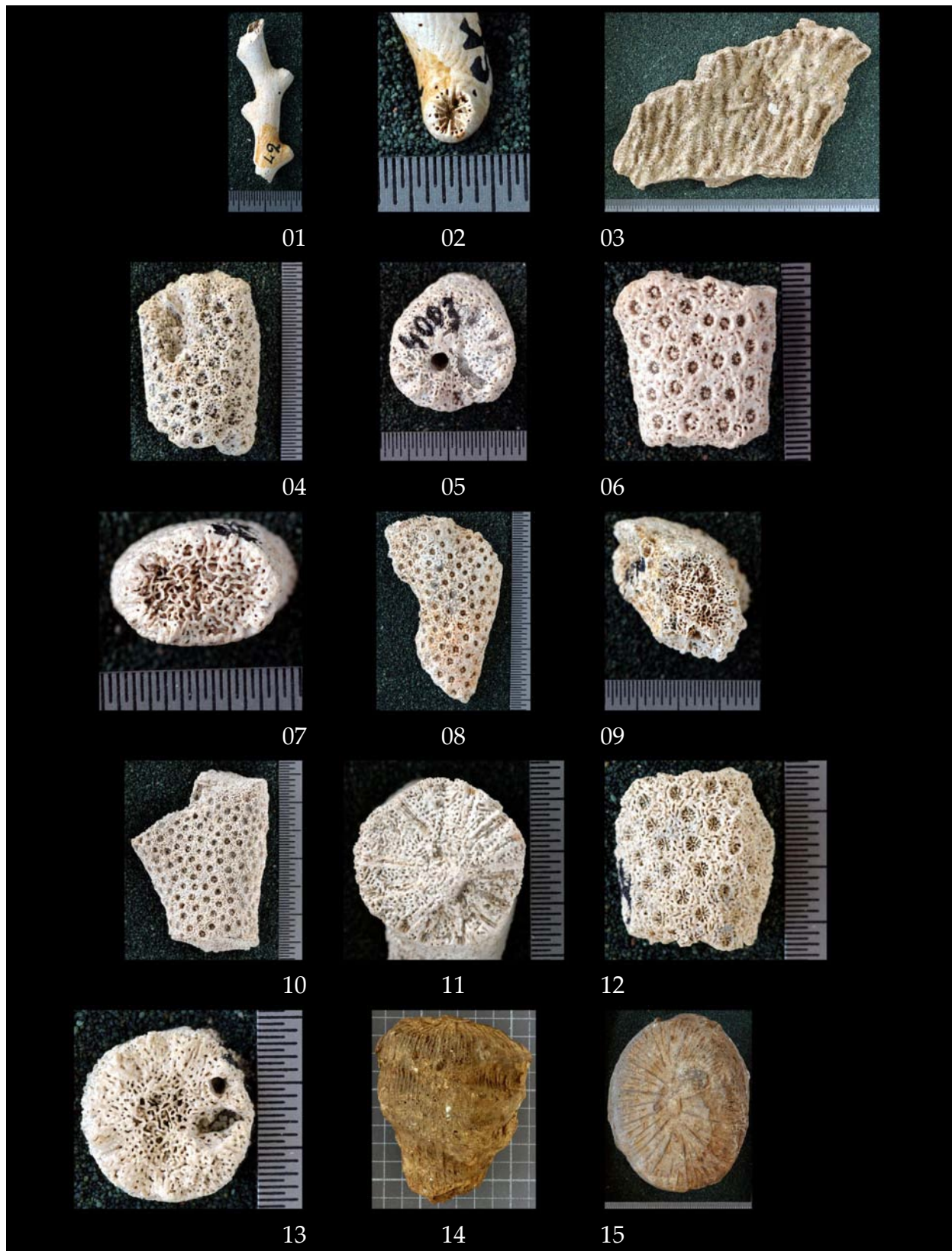
Plate 70



**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

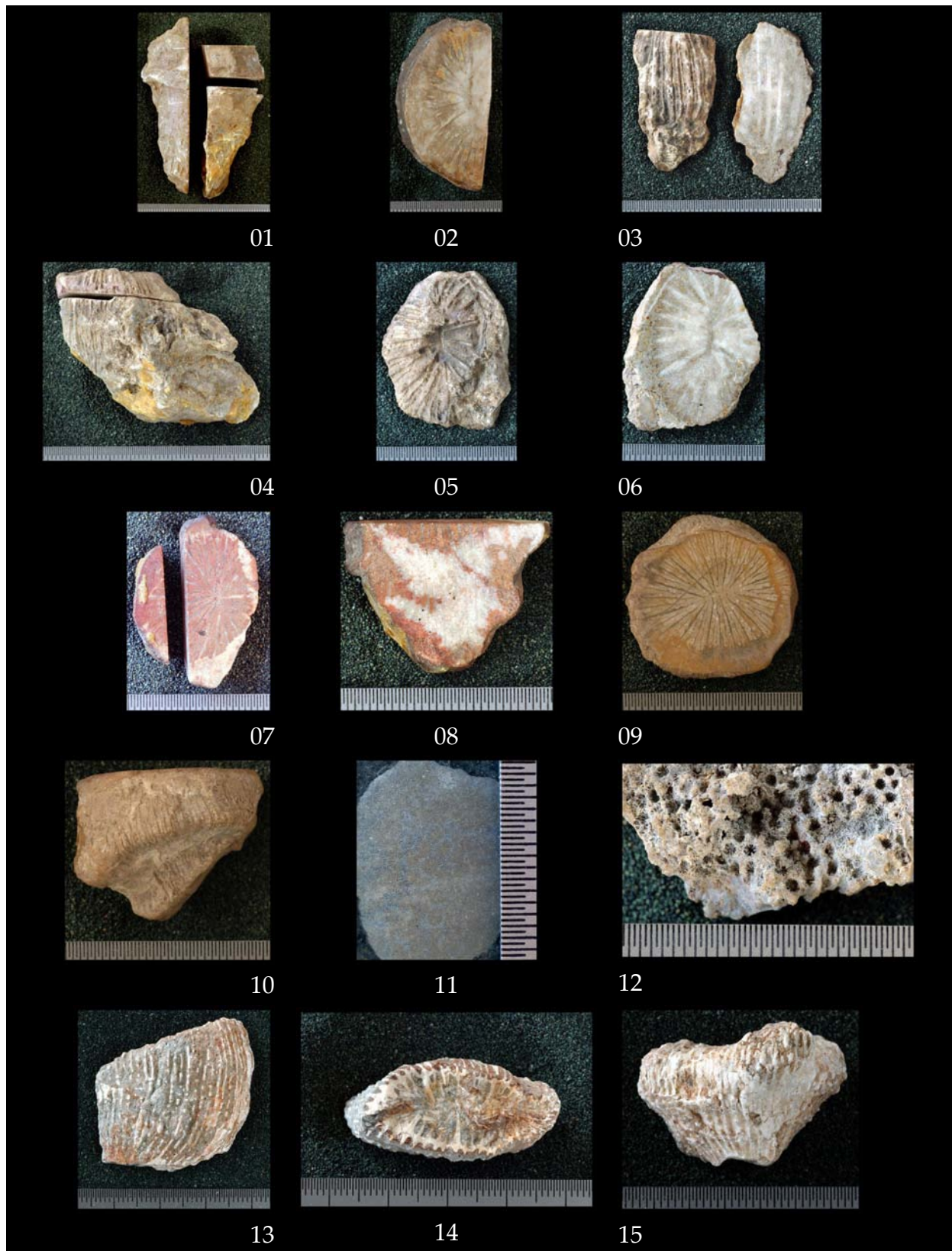


**Plate 72**

- 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 stylophyloides* (syntype) in Vinassa de Regny (1915) (RGM 529384, side view)  
Fig. 4. *Montlivaltia stylophyloides* (syntype) in Vinassa de Regny (1915) (THDKA 12835, side view)  
Fig. 5. *Montlivaltia stylophyloides* (syntype) in Vinassa de Regny (1915) (THDKA 12835, top view)  
Fig. 6. *Montlivaltia stylophyloides* (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)



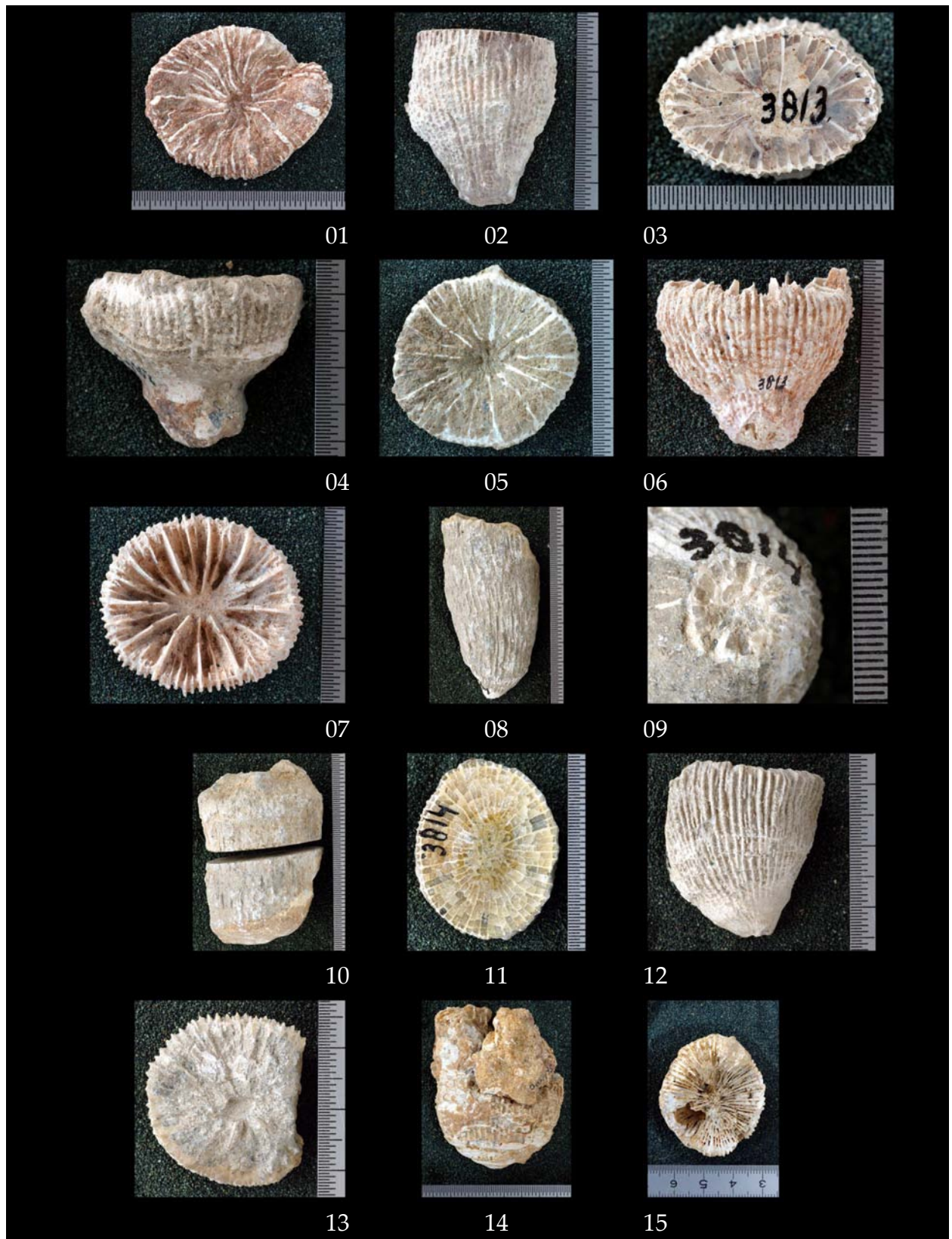
Plate 72



**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)

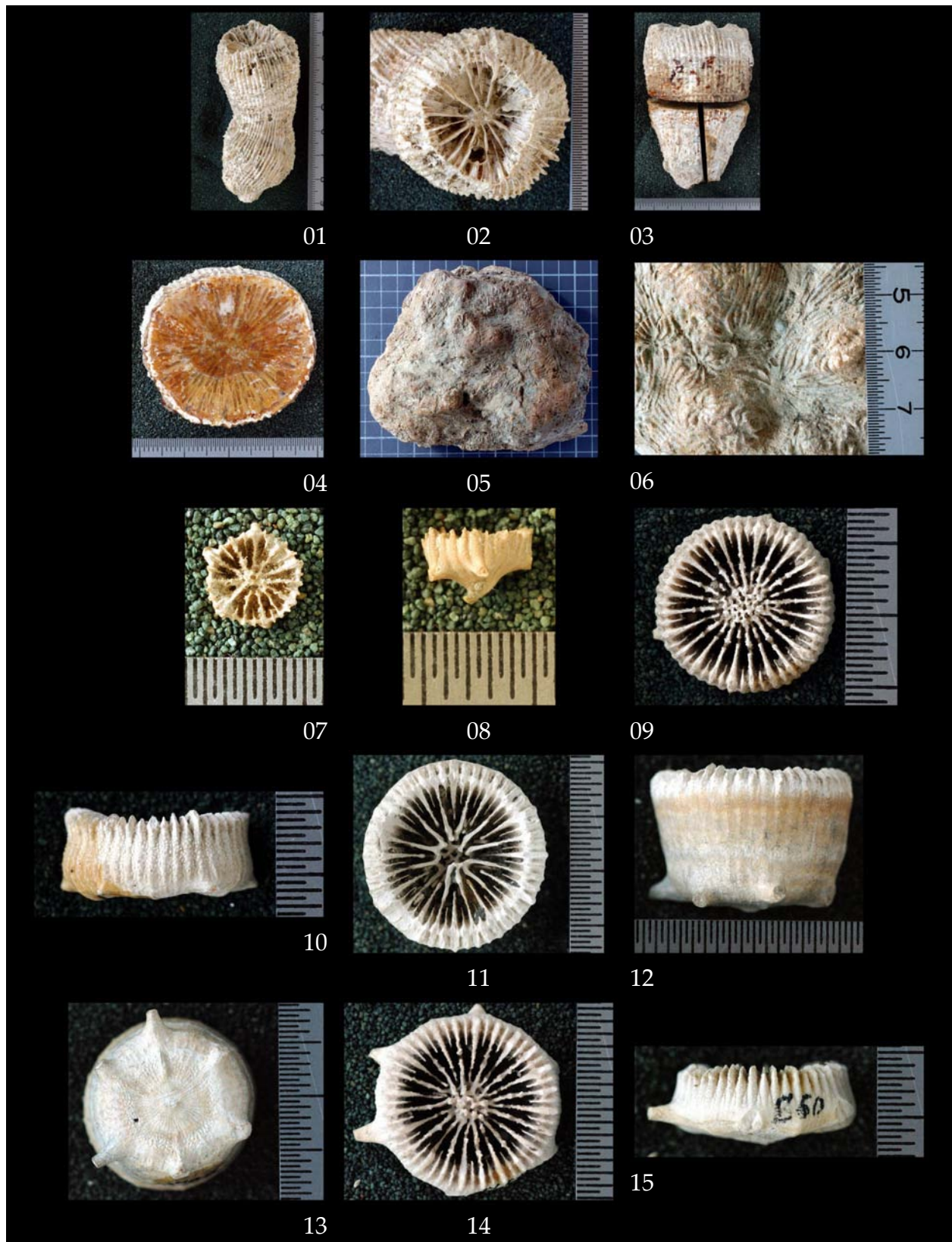
Plate 73



**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)

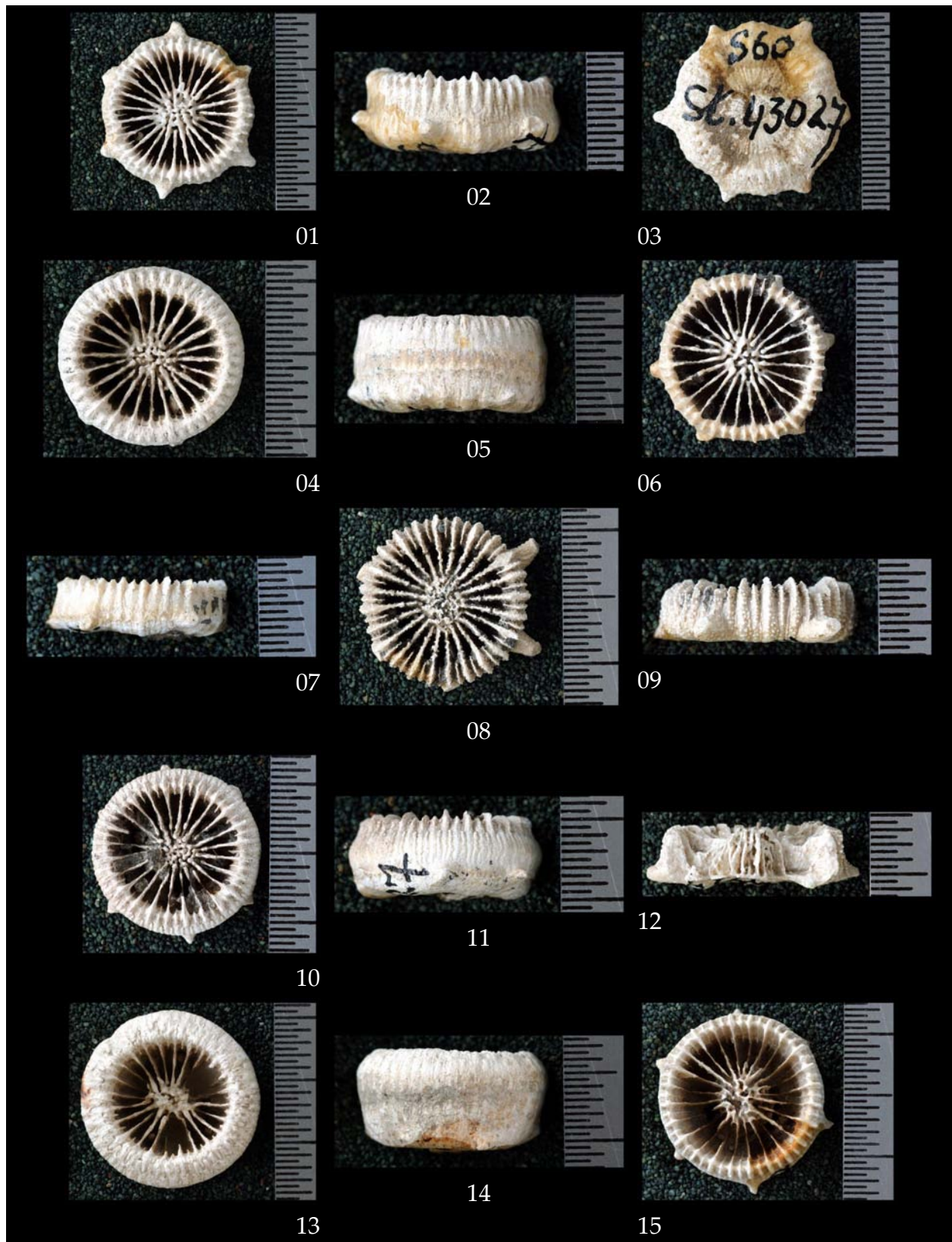
Plate 74



**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 cyclommatus* in Gerth (1923) (RGM 43095, top view)  
Fig. 15. *Orbicella cyclommatus* 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

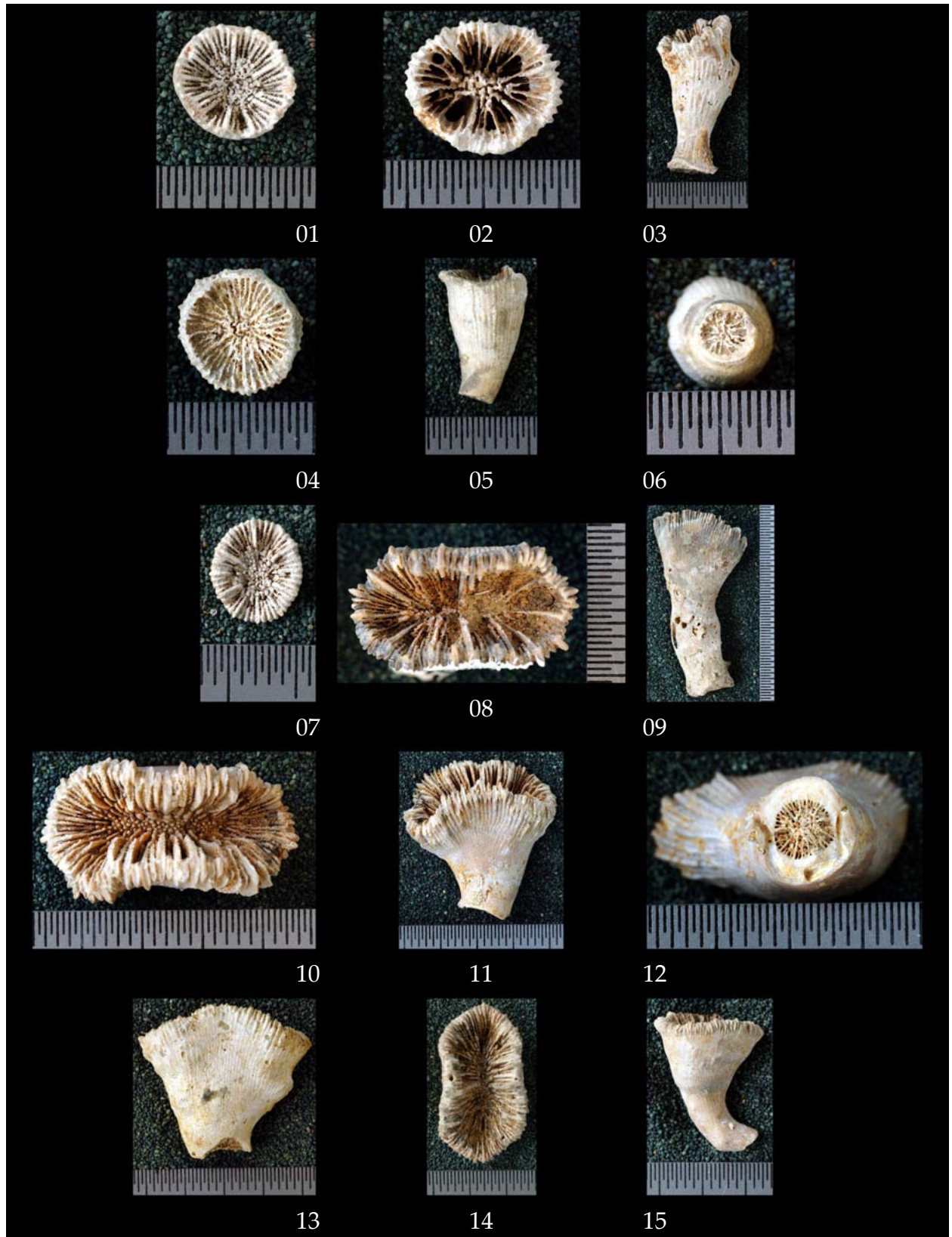


**Plate 80**

- 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)



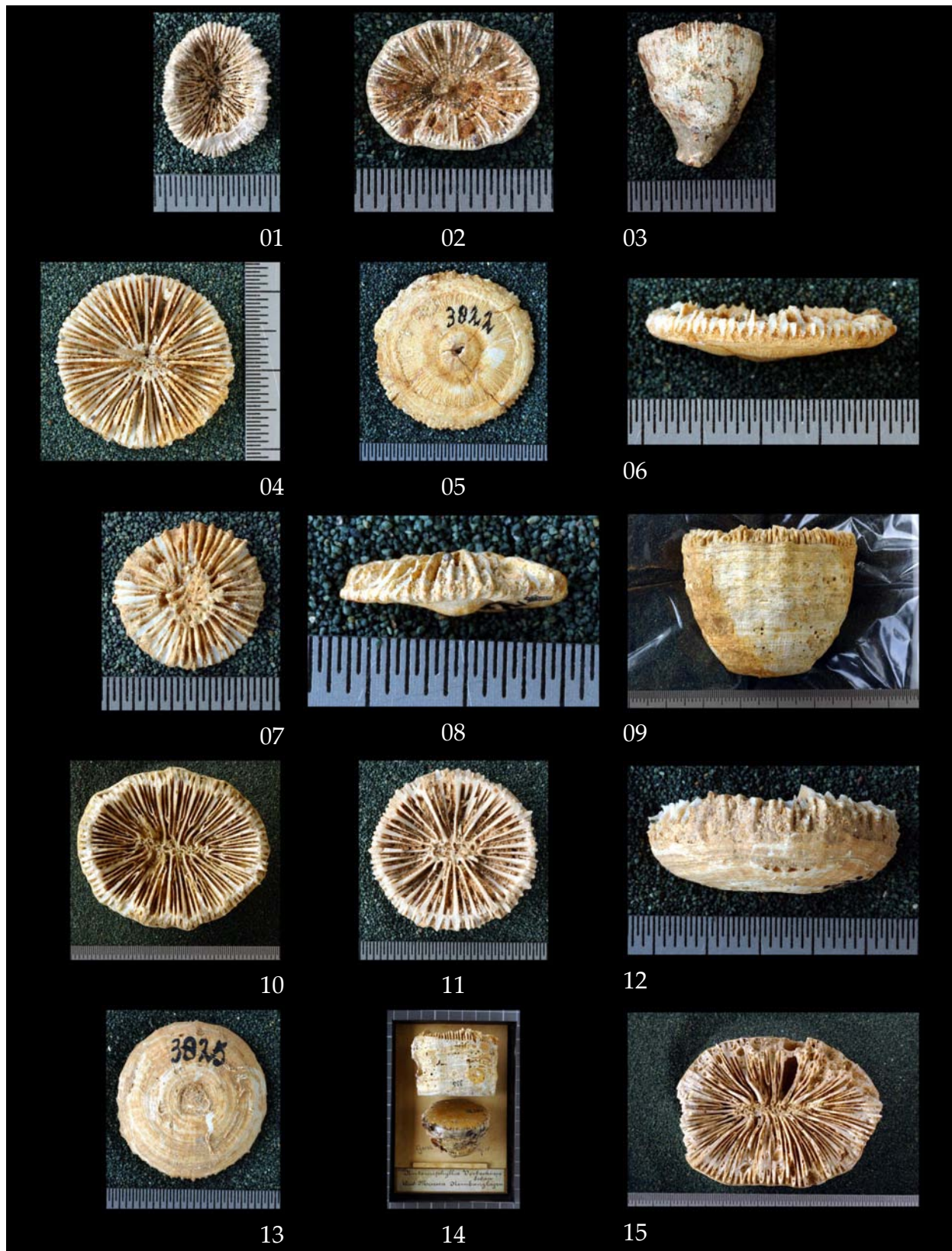
Plate 80



**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

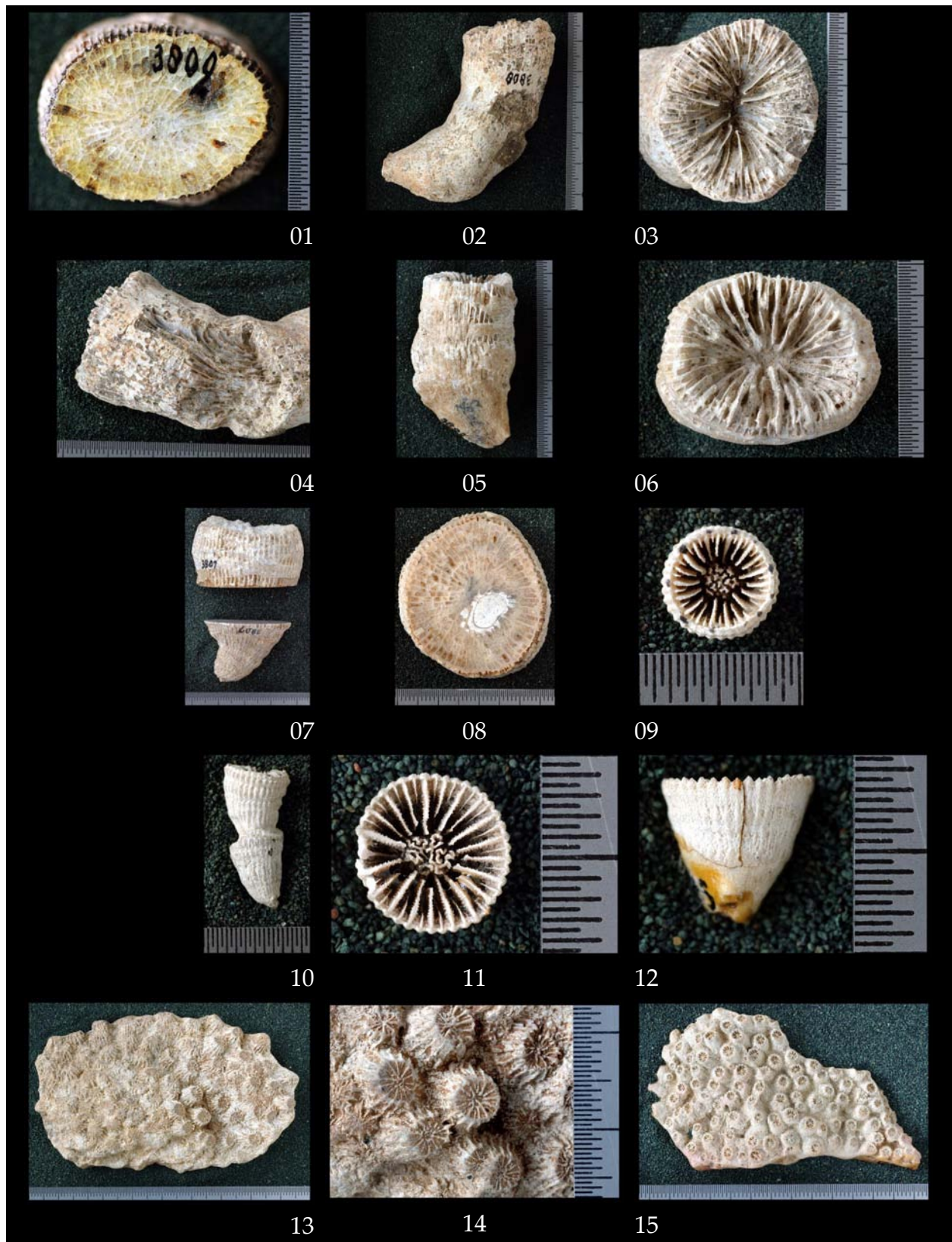


**Plate 84**

- 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)

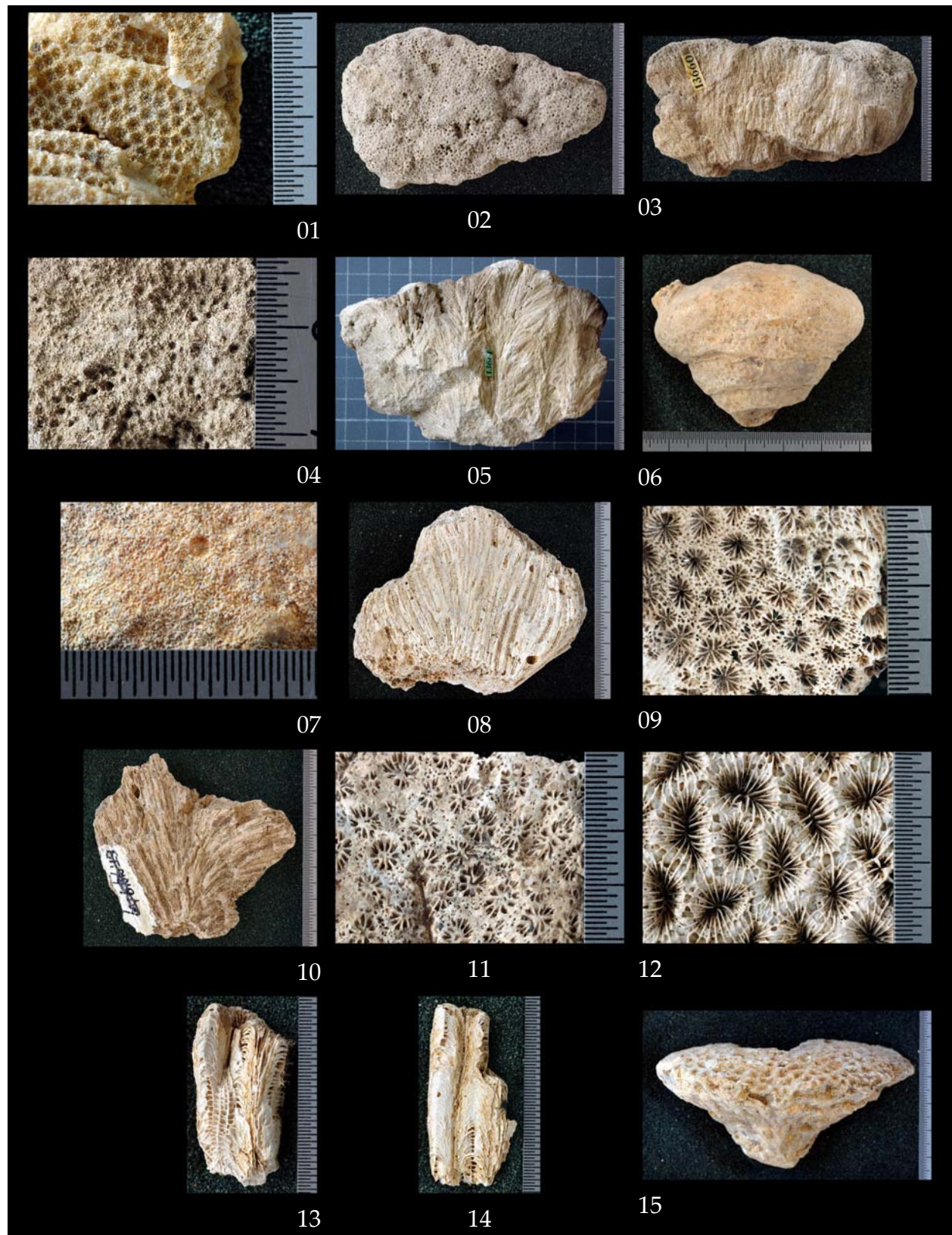
Plate 85



**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)

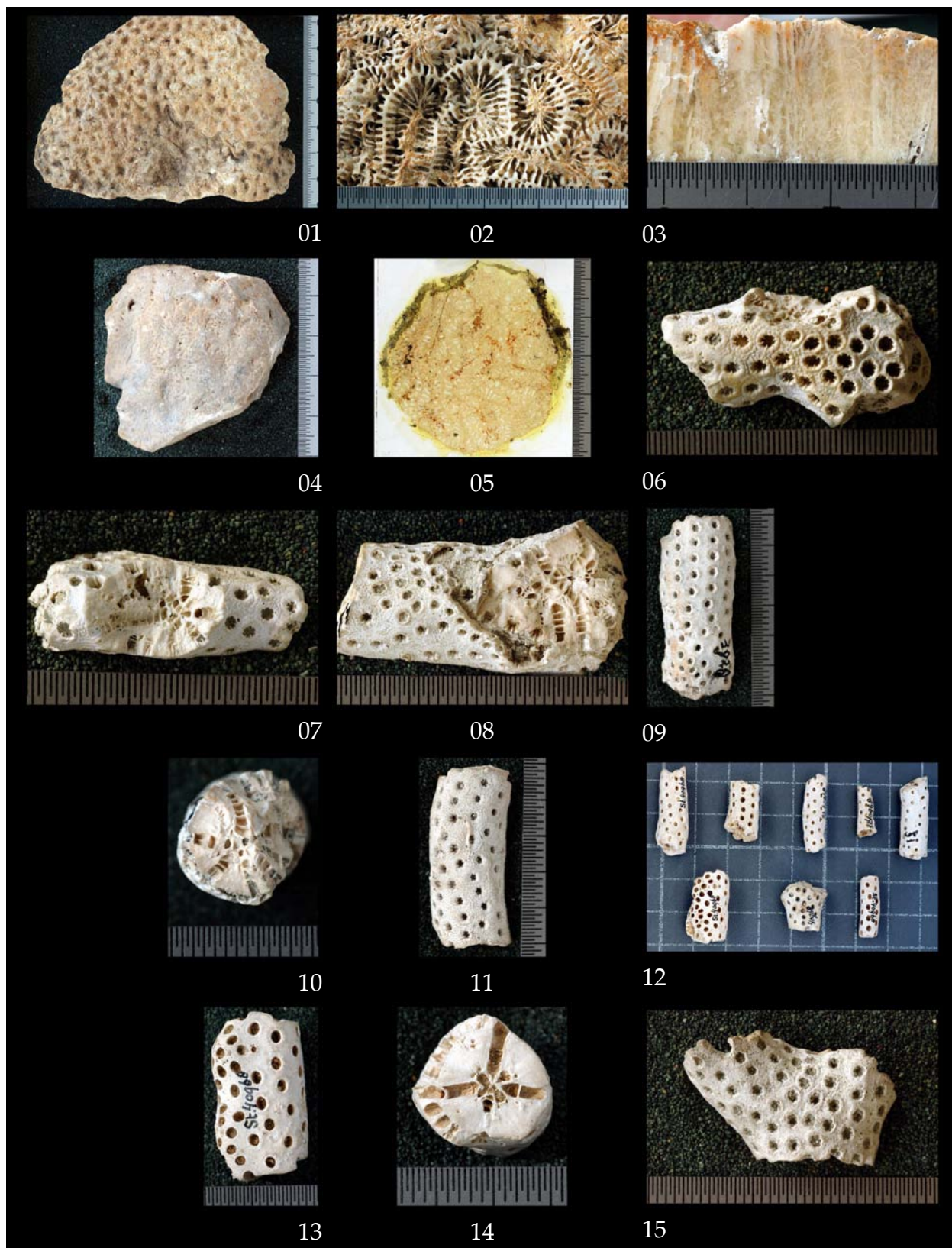
Plate 86



**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

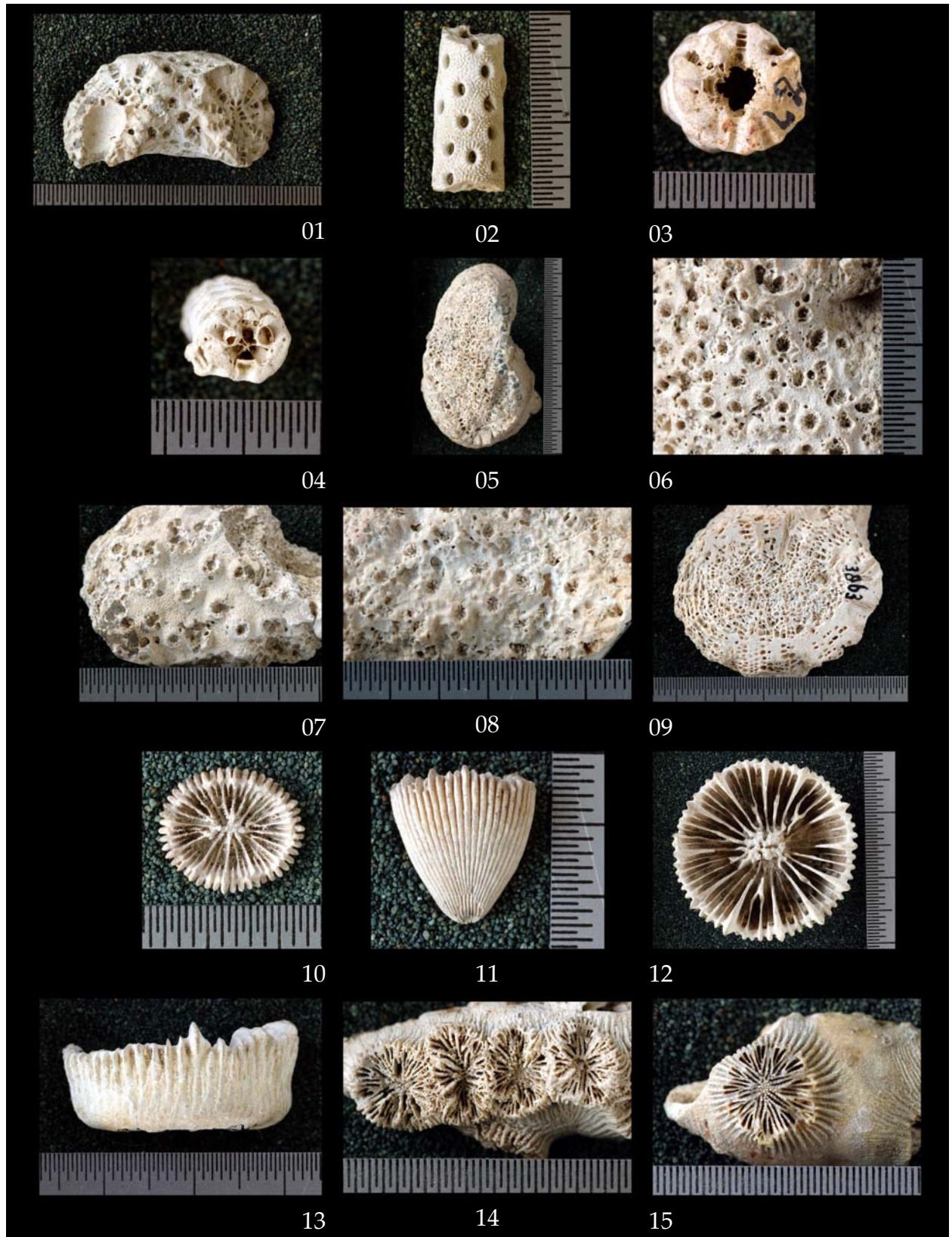


**Plate 88**

- 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)



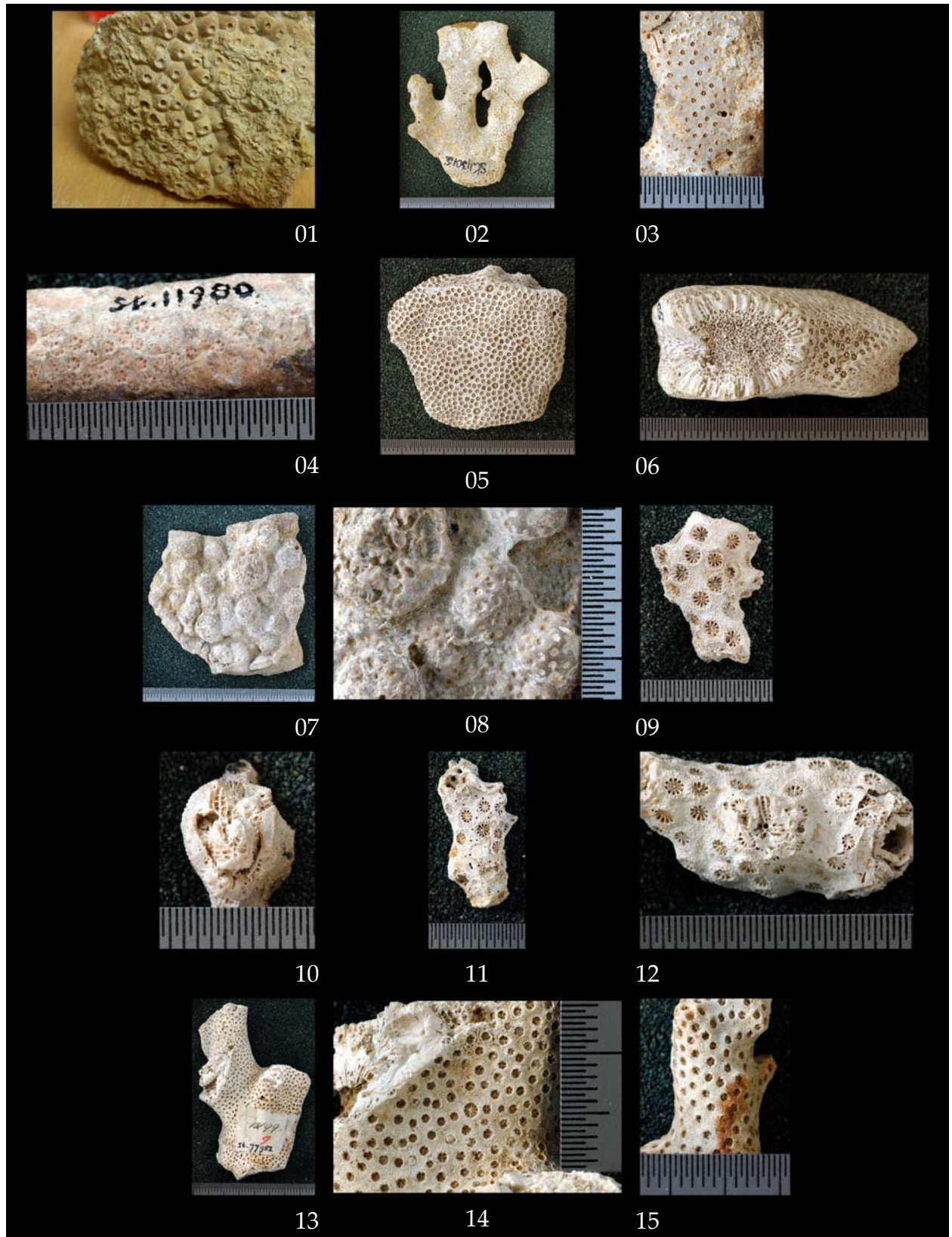
Plate 88



**Plate 89**

- Fig. 1. *Stylohelium 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)

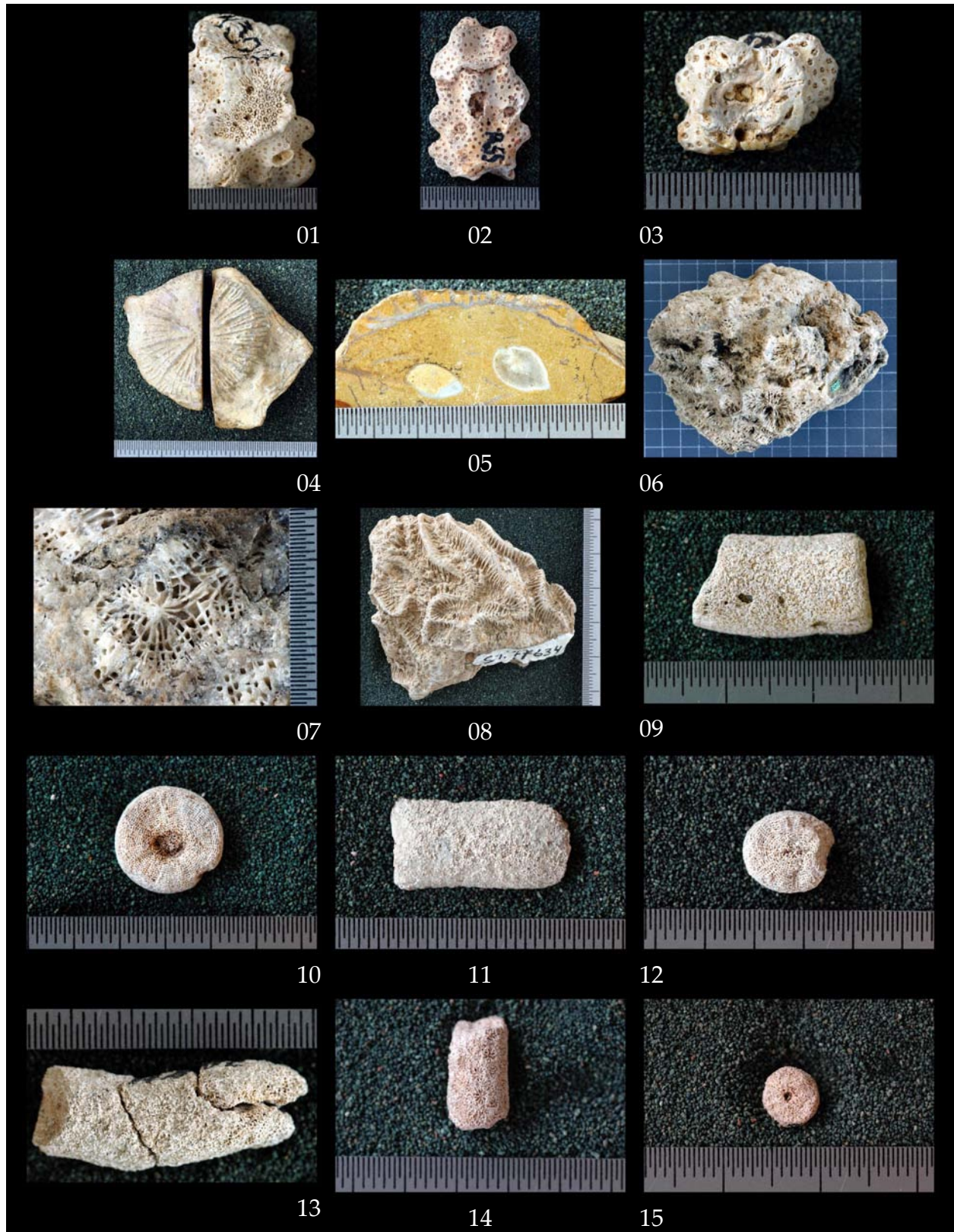
Plate 90



**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 schmidtii* (syntype) in Gerth (1923) (RGM 43023, top view)  
Fig. 14. *Trochocyathus schmidtii* (syntype) in Gerth (1923) (RGM 43023, side view)  
Fig. 15. *Trochocyathus schmidtii* (syntype) in Gerth (1923) (RGM 43023, basal view)



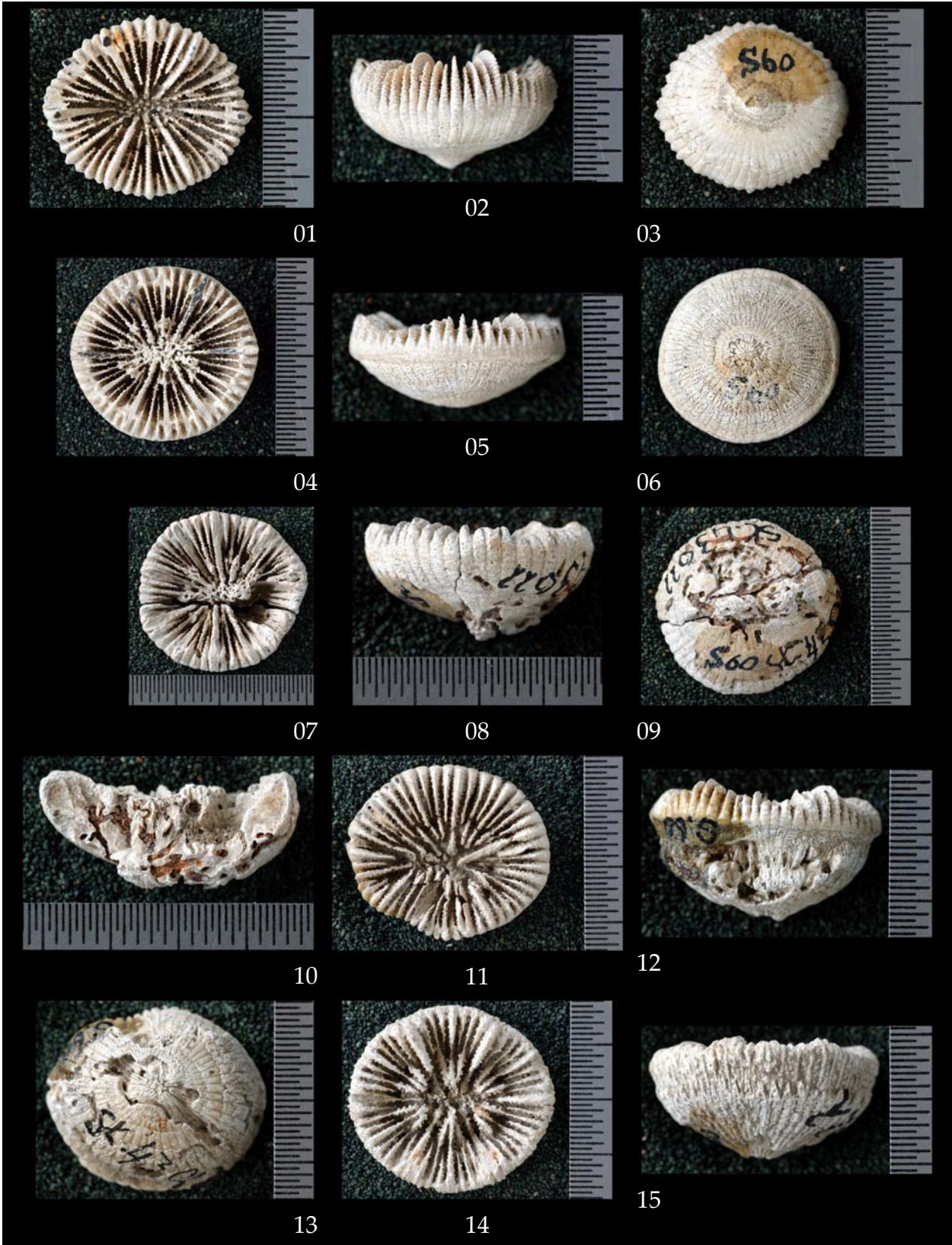
Plate 92



**Plate 93**

- Fig. 1. *Trochocyathus schmidtii* (syntype) in Gerth (1923) (RGM 167775, top view)  
Fig. 2. *Trochocyathus schmidtii* (syntype) in Gerth (1923) (RGM 167775, side view)  
Fig. 3. *Trochocyathus schmidtii* (syntype) in Gerth (1923) (RGM 167775, basal view)  
Fig. 4. *Trochocyathus schmidtii* (syntype) in Gerth (1923) (RGM 167776, top view)  
Fig. 5. *Trochocyathus schmidtii* (syntype) in Gerth (1923) (RGM 167776, side view)  
Fig. 6. *Trochocyathus schmidtii* (syntype) in Gerth (1923) (RGM 167776, basal view)  
Fig. 7. *Trochocyathus schmidtii* (syntype) in Gerth (1923) (RGM 525400, top view)  
Fig. 8. *Trochocyathus schmidtii* (syntype) in Gerth (1923) (RGM 525400, side view)  
Fig. 9. *Trochocyathus schmidtii* (syntype) in Gerth (1923) (RGM 525400, basal view)  
Fig. 10. *Trochocyathus schmidtii* (syntype) in Gerth (1923) (RGM 525400, tangential section)  
Fig. 11. *Trochocyathus schmidtii* (syntype) in Gerth (1923) (RGM 525401, top view)  
Fig. 12. *Trochocyathus schmidtii* (syntype) in Gerth (1923) (RGM 525401, side view)  
Fig. 13. *Trochocyathus schmidtii* (syntype) in Gerth (1923) (RGM 525401, basal view)  
Fig. 14. *Trochocyathus schmidtii* (syntype) in Gerth (1923) (RGM 525402, top view)  
Fig. 15. *Trochocyathus schmidtii* (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

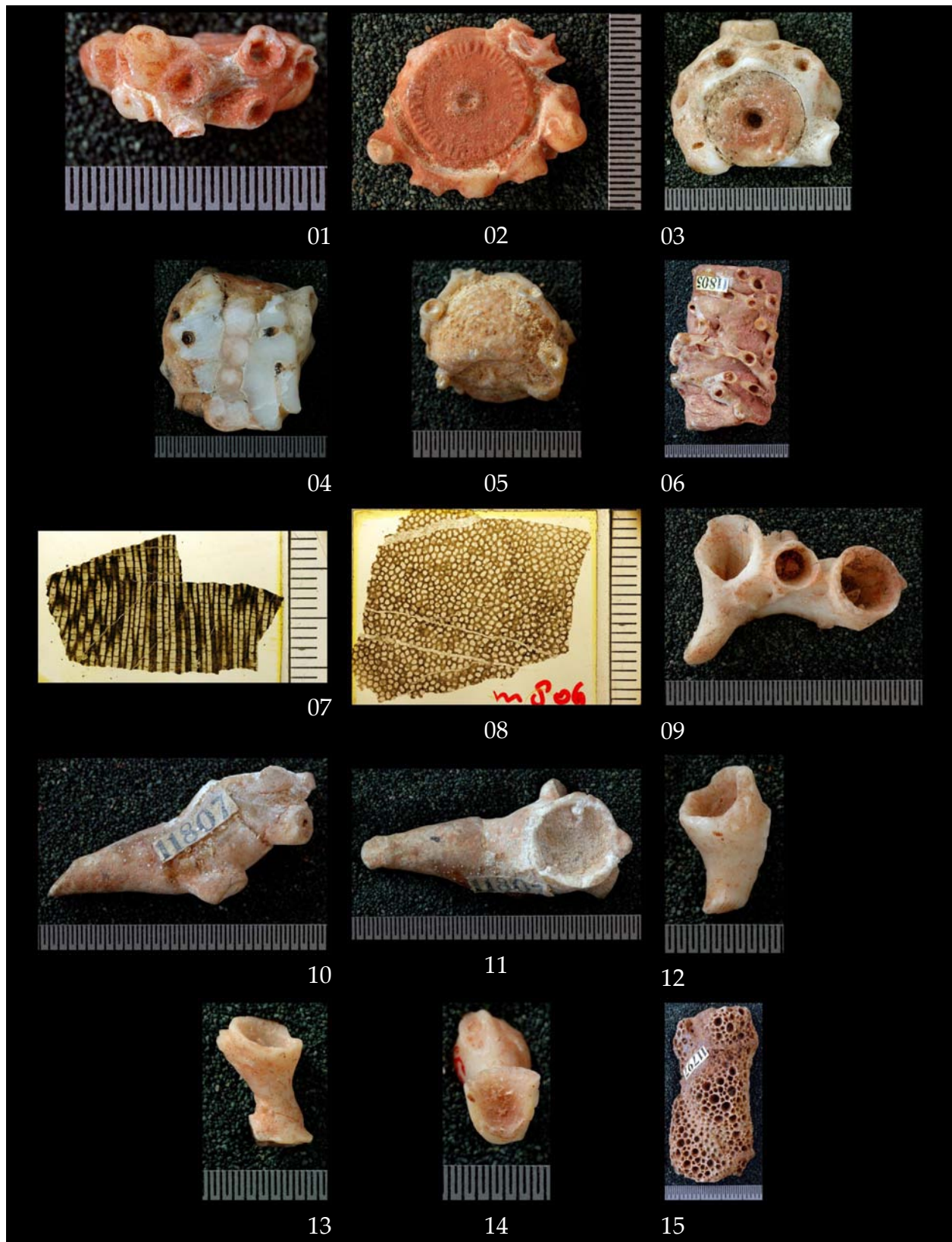


**Plate 96**

- 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 Ezzoubair (2000) (RGM 532491, top view)  
Fig. 4. *Aulohelia laevis* in Ezzoubair (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 Ezzoubair (2000) (RGM 532488, side view)  
Fig. 13. *Cladochonus magnus* in Ezzoubair (2000) (RGM 532489, side view)  
Fig. 14. *Cladochonus magnus* in Ezzoubair (2000) (RGM 532489, basal view)  
Fig. 15. *Favosites permica* (syntype) in Gerth (1921a), Gerth (1921b) (THDKA 11797, side view)



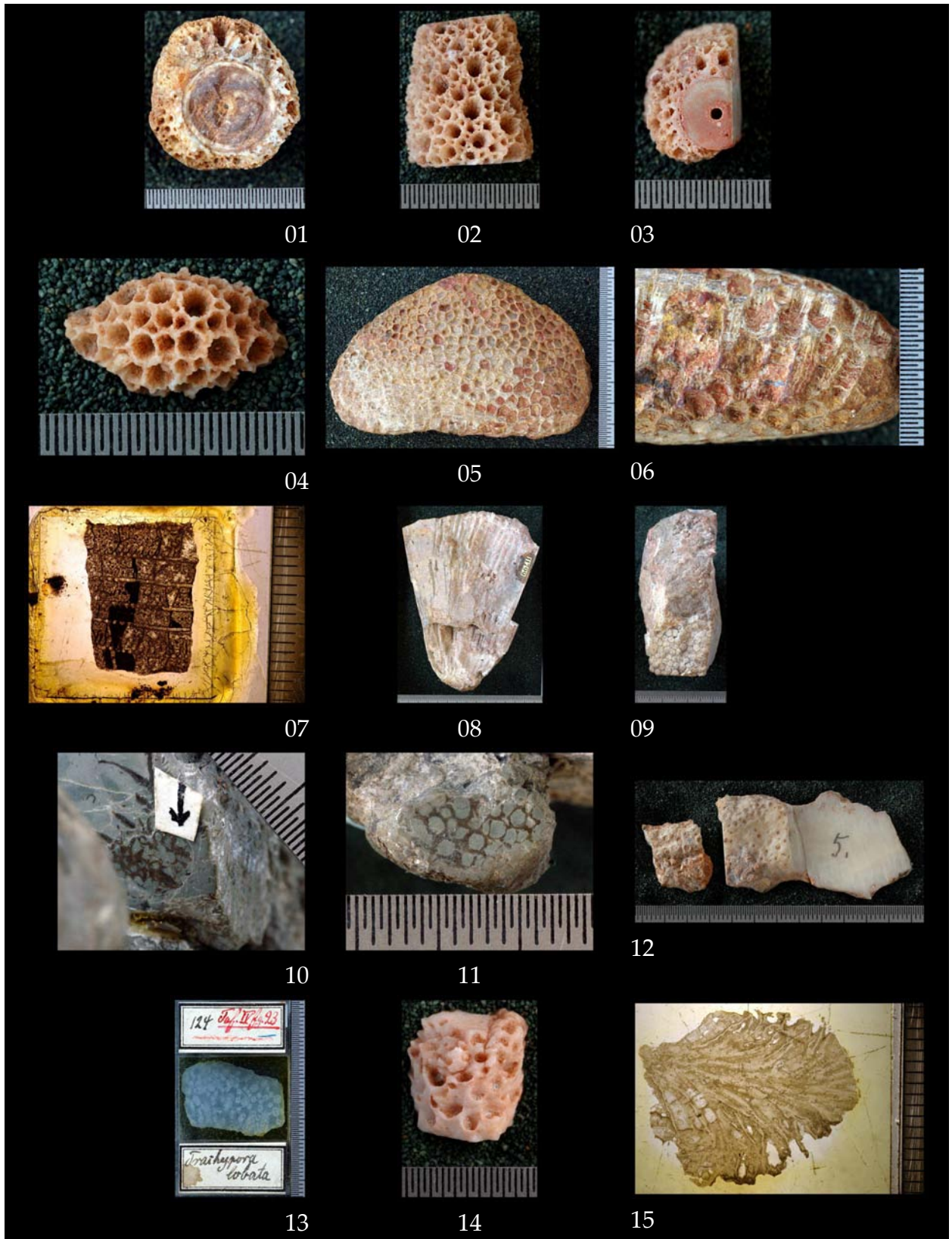
Plate 96



**Plate 97**

- Fig. 1. *Favosites permica* (syntype) in Gerth (1921a), Gerth (1921b) (THDKA 11797, transverse section)  
Fig. 2. *Favosites permica* in Ezzoubair (2000) (RGM 32790A, side view)  
Fig. 3. *Favosites permica* in Ezzoubair (2000) (RGM 32790A, radial section)  
Fig. 4. *Favosites permica* in Ezzoubair (2000) (RGM 32790B, side view)  
Fig. 5. *Favosites relictata* (holotype) in Gerth (1921a) (THDKA 11798, top view)  
Fig. 6. *Favosites relictata* (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 Ezzoubair (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 Ezzoubair (2000) (RGM 168319, top view)  
Fig. 12. *Michelinia indica* in Ezzoubair (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)

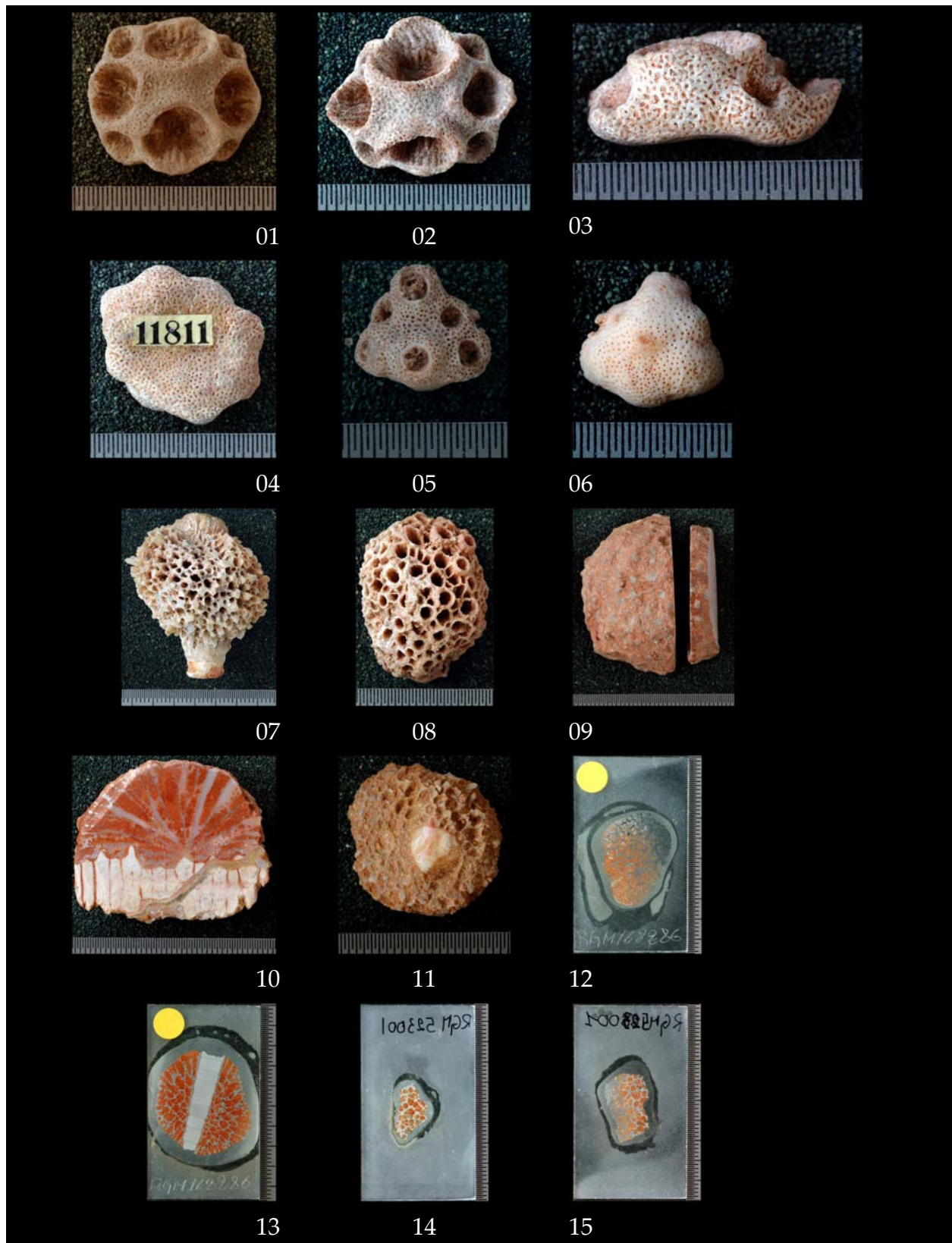
Plate 98



**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 Ezzoubair (2000) (RGM 168290, top view)  
Fig. 10. *Pseudofavosites stylifer* in Ezzoubair (2000) (RGM 168290, radial section)  
Fig. 11. *Pseudofavosites stylifer* in Ezzoubair (2000) (RGM 168288, basal view)  
Fig. 12. *Pseudofavosites stylifer* in Ezzoubair (2000) (RGM 532373, overview)  
Fig. 13. *Pseudofavosites stylifer* in Ezzoubair (2000) (RGM 532374, overview)  
Fig. 14. *Pseudofavosites stylifer septosa* in Ezzoubair (2000) (RGM 532379, overview)  
Fig. 15. *Pseudofavosites stylifer septosa* in Ezzoubair (2000) (RGM 532380, overview)

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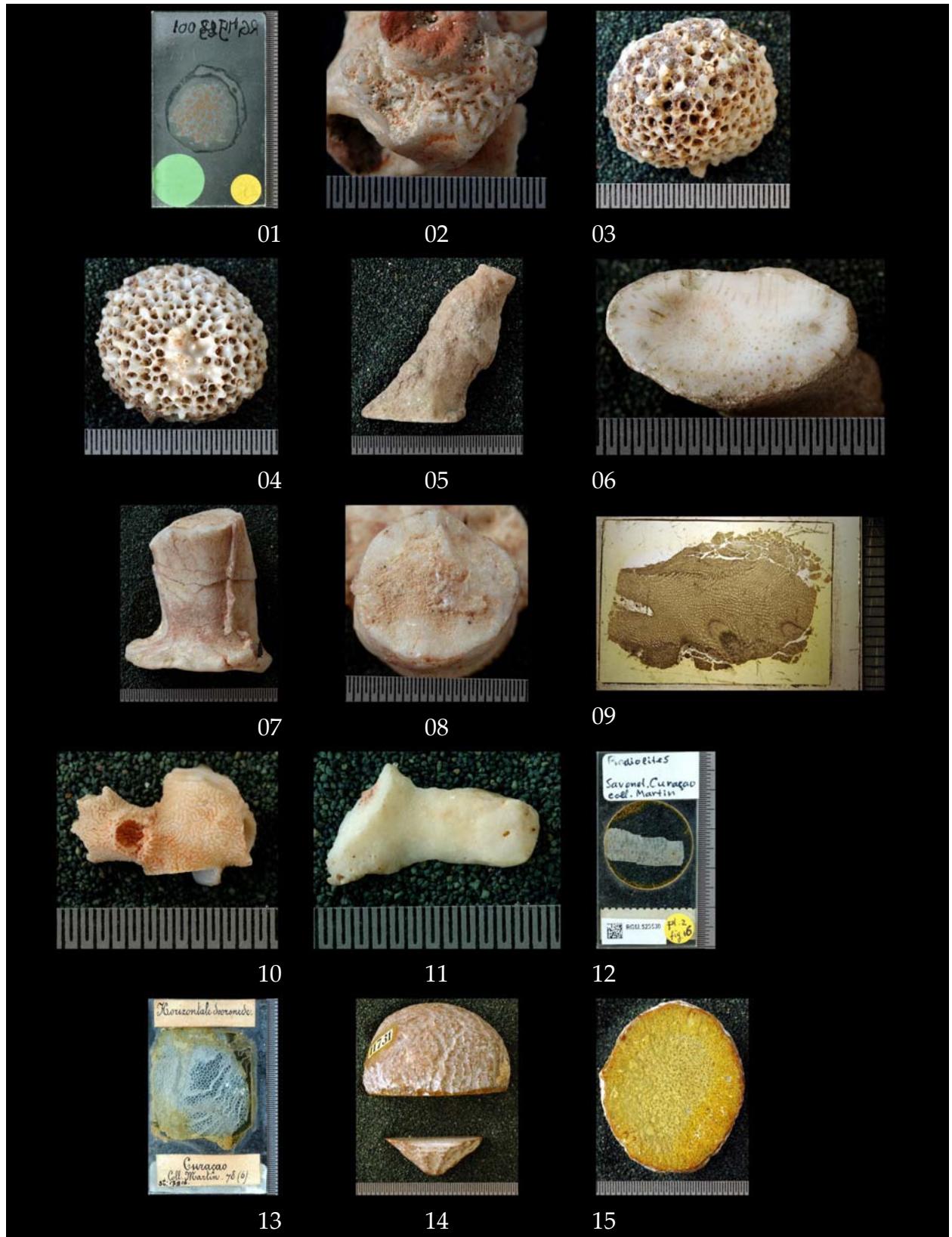


**Plate 100**

- Fig. 1. *Pseudofavosites styliifer septosa* in Ezzoubair (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 Ezzoubair (2000) (RGM 532493, side view)  
Fig. 11. *Trachypsammia dendroides* in Ezzoubair (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)



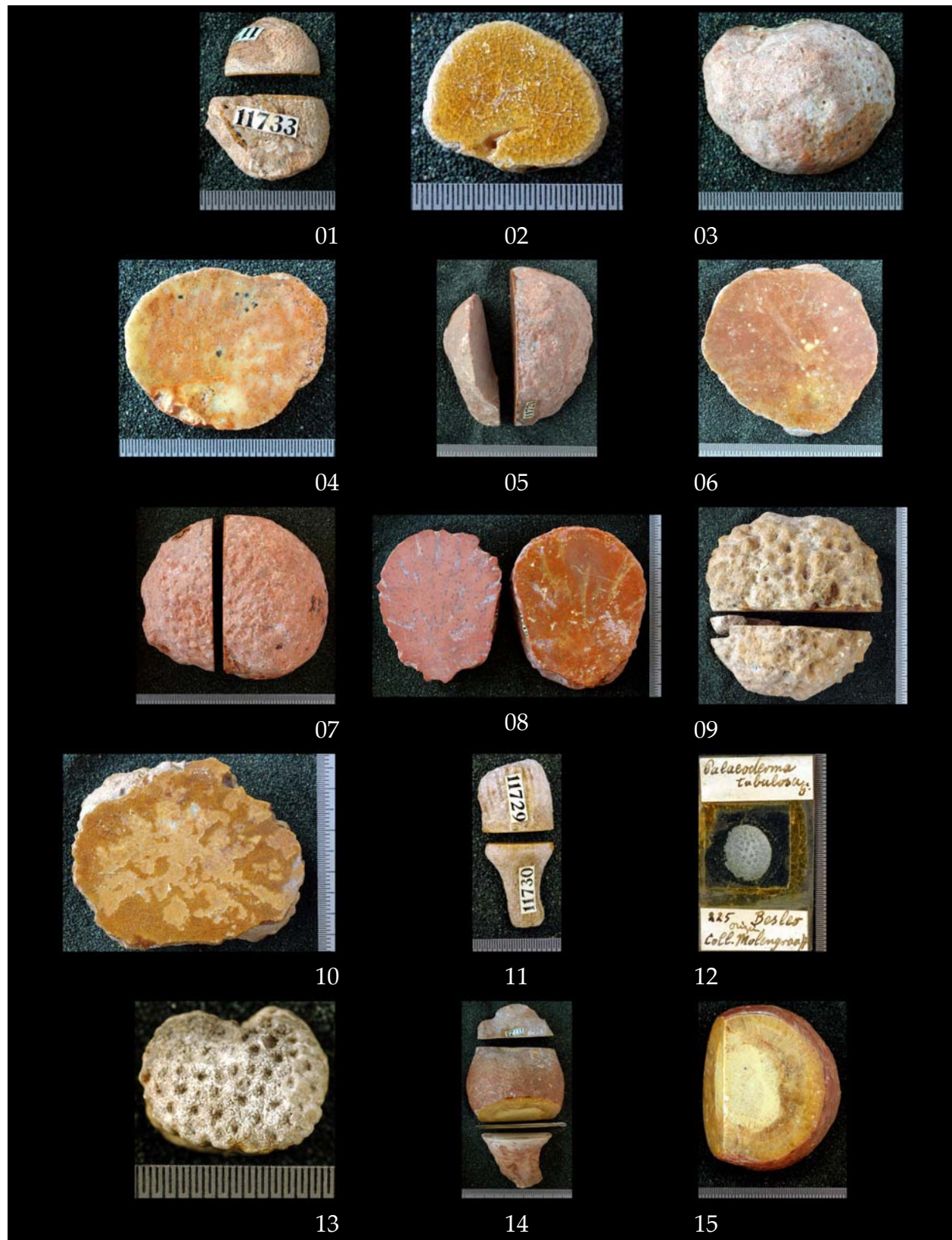
Plate 100



**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)

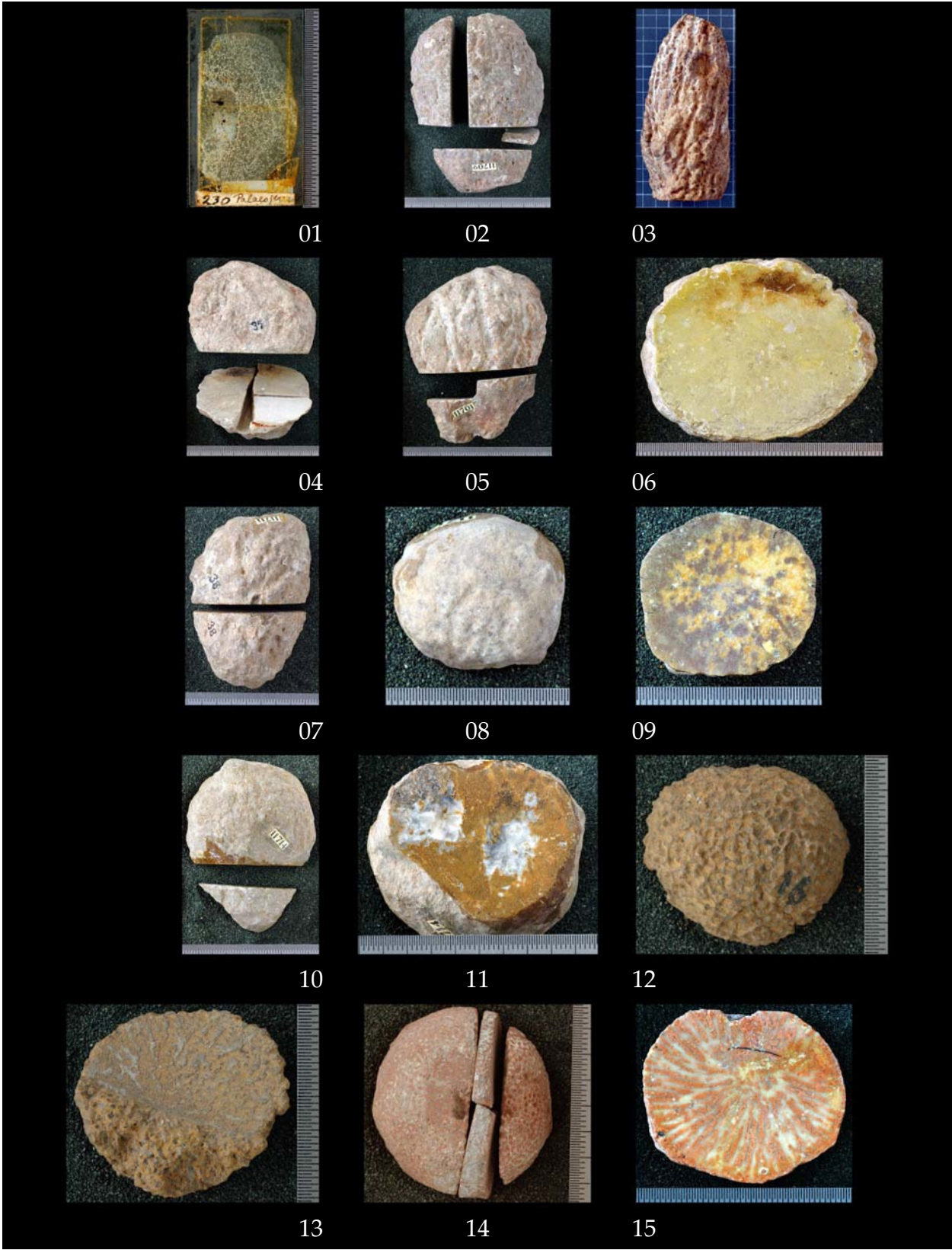
Plate 101



**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)

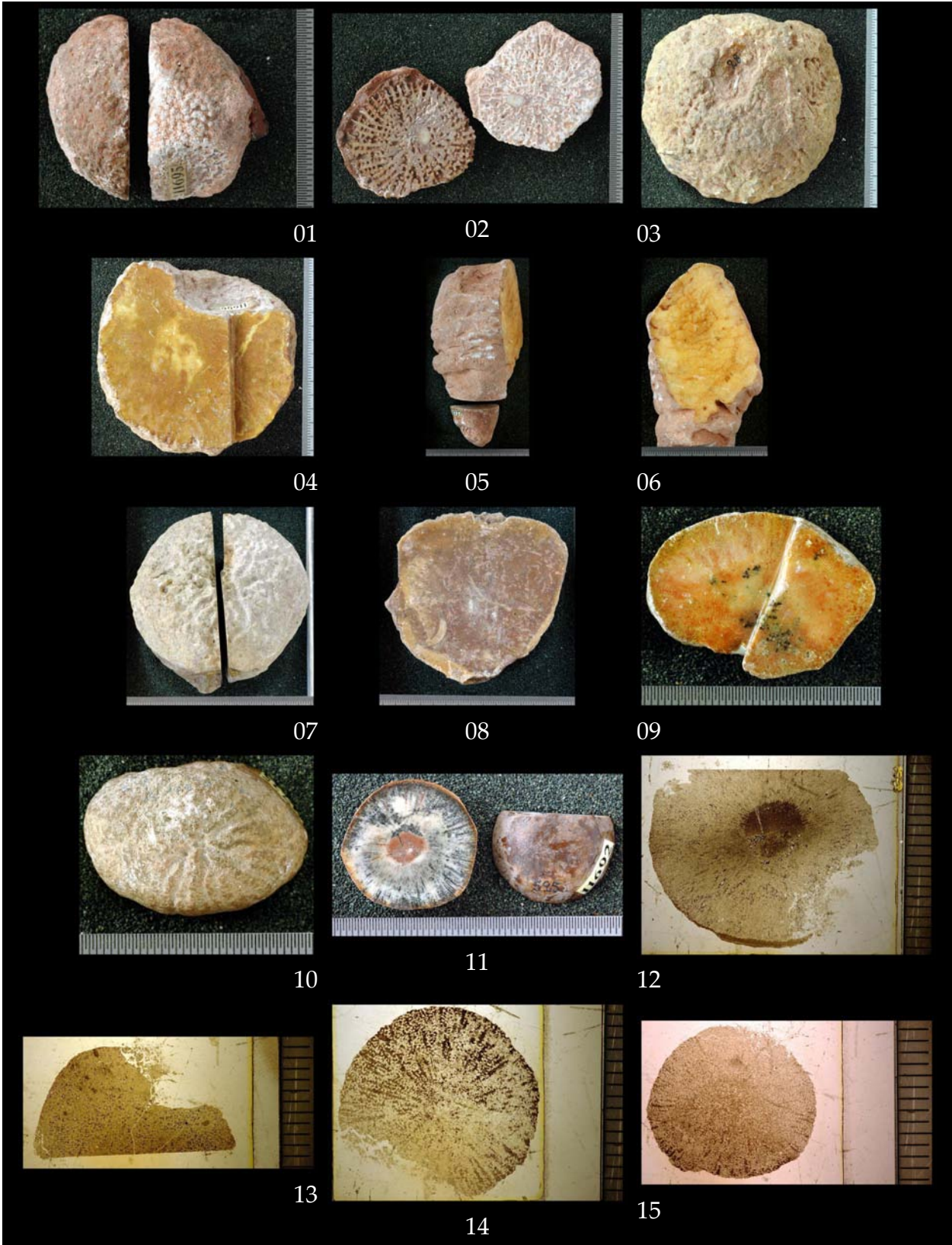
Plate 102



**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

