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## A catalogue of the Coelenterate type specimens of the Zoological Museum of Amsterdam. IV. Gorgonacea, Actiniaria, Scleractinia

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### ABSTRACT

This final part of the Coelenterate type catalogue lists 274 nominal types (183 Gorgonacea, 9 Actiniaria and 82 Scleractinia). Six not previously depicted types are represented by photographic illustrations of their habit. Furthermore lists are provided of schizotypes, i.e. fragments of types housed in other musea donated at some time to the Zoological Museum of Amsterdam, and of missing types, i.e. types, which should be in the ZMA but were found missing in a recent survey of the collections.

### INTRODUCTION

For this final part the order in which the types are listed is again derived from Bayer (1963) and Wells (1963), as far as the systematics of suprageneric taxa is concerned, just as has been done in the three previous parts (van Soest, 1975, 1976, 1977). Dr. M. Grasshoff (Frankfurt am Main, BRD) kindly checked the Gorgonacea-part. Dr. J. W. Wells (Ithaca, U.S.A.) and Dr. H. Zibrowius (Marseille, France) generously went over the Scleractinia-part.

Class ANTHOZOA

Order GORGONACEA

Suborder SCLERAXONIA

Family Briareidae

*Suberia excavata* Nutting, 1911a: 14, pl. 3 (figs. 2, 2a), pl. 11 (fig. 4).  
*Solenopodium excavatum*; Kükenthal, 1919: 42; Kükenthal, 1924: 13;  
Stiasny, 1937c: 12. *Solenopodium stechei*; Aurivillius, 1931: 9.

Syntypes: numerous fragments, ZMA COEL. no. 3410, 3489.

Type locality: Siboga Exped., stat. 142. One fragment has been donated to the State University of Iowa and one to the Rijksmuseum van Natuurlijke Historie at Leiden.

#### Family Anthothelidae

**Suberia macrocalyx** Nutting, 1911a: 15, pl. 3 (figs. 3, 3a), pl. 11 (fig. 5).

*Semperina macrocalyx*; Kükenthal, 1919: 51, 57; Kükenthal, 1924: 22; Thomson & Dean, 1931: 192; Stiasny, 1937b: 35.

Holotype: ZMA COEL. no. 3280.

Type locality: Siboga Exped., stat. 122.

**Semperina brunnea** Nutting, 1911a: 12, pl. 2 (figs. 2, 2a), pl. 11 (fig. 3);

Kükenthal, 1924: 20, Thomson & Dean, 1931: 191; Stiasny, 1937b: 31; Stiasny, 1938c: 358; Bayer, 1963: 196.

Holotype: ZMA COEL, no. 1602.

Paratypes: 9 specimens, ZMA COEL. no. 1601, 1603, 1604, 1605, 1606, 3271, 3272, 3273, 3275.

Type localities: Siboga Exped., stat. 164, 273. From both localities one specimen has been donated to the State University of Iowa. A fragment from stat. 164 has been donated to the Rijksmuseum van Natuurlijke Historie at Leiden.

**Solenocaulon jedanensis** Nutting, 1911a: 9, pl. 2 (figs. 1, 1a), pl. 11 (fig. 2);

Stiasny, 1937b: 45; Stiasny, 1938c: 357; Stiasny, 194pd: 203. *S. jedanense* = spec. inc.; Kükenthal, 1924: 28.

Syntypes: 4 specimens, ZMA COEL. no. 3405, 3406.

Type localities: Siboga Exped., stat. 164, 273. A fragment from stat. 273 has been donated to the Rijksmuseum van Natuurlijke Historie at Leiden.

**Solenocaulon querciformis** Nutting, 1911a: 8, pl. 1 (figs. 1, 1a), pl. 11 (fig. 1);

Kükenthal, 1924: 23; Stiasny, 1937b: 47.

Holotype: ZMA COEL. no. 3399. One paratype.

Type localities: Siboga Exped., stat. 142, 285 (holotype). The paratype from stat. 142 is missing.

**Diodogorgia sibogae** Stiasny, 1941b: 67. (Originally identified as *Spongioderma chuni* Kükenthal, 1908 by Thomson & Dean, 1931: 192, pl. 24 (fig. 9)).

Holotype (fragm.): ZMA COEL. no. 3418, 3419, 3420.

Type locality: Siboga Exped., stat. 310.

**Titanideum friabile** Nutting, 1911a: 20, pl. 3 (figs. 1, 1a), pl. 11 (fig. 6).

*Paratitanideum friabile*; Kükenthal, 1919: 84; Kükenthal, 1924: 32; Stiasny, 1937b: 56.

Holotype: ZMA COEL. no. 1667.

Type locality: Siboga Exped., stat. 304.

Family Subergorgiidae

**uberogorgia appressa** Nutting, 1911a: 28, pl. 5 (figs. 1, 1a), pl. 11 (fig. 7); Kükenthal, 1924: 45; Hickson, 1932: 467; Dean, 1934: 9. *Suberogorgia suberosa*; Stiasny, 1937b: 87. *Suberogorgia suberosa*; Mai-Bao-Thu & Domantay, 1970: 37.

Syntypes; 2 specimens, ZMA COEL. no. 1826, 3509.

Type localities: Siboga Exped., stat. 71, 273.

**Suberogorgia pulchra** Nutting, 1911a: 30, pl. 6 (figs. 1, 1a), pl. 11 (fig. 9); Kükenthal, 1924: 44; Thomson & Dean, 1931: 193m *Suberogorgia suberosa*; Stiasny, 1937b: 87. The genus name should be *Subergorgia*, according to Bayer, 1963: 197, as *Suberogorgia* is an unjustified emendation of Ridley (1884) and Wright & Studer (1889); the original spelling is *Subergorgia* Gray, 1857.

Syntypes: several fragments, ZMA COEL. no. 3510.

Type locality: Siboga Exped., stat. 315.

**Suberogorgia thomsoni** Nutting, 1911a: 29, pl. 6 (figs. 2, 2a), pl. 11 (fig. 8); Kükenthal, 1924: 45; Stiasny, 1937b: 97; Stiasny, 1938c: 359; Stiasny, 1940d: 204.

Holotype + several paratypes (fragm.): ZMA COEL. no. 3510.

Type localities: Siboga Exped., stat. 154 (holotype), 204.

Family Paragorgiidae

**Sibogagorgia weberi** Stiasny, 1937b: 80, pl. 4 (figs. 26—30), text-fig. BB (originally identified as *Suberia koellikeri* (Th. Studer, 1878) by Nutting, 1911a: 13).

Holotype (+ fragments): ZMA COEL. no. 3282.

Type locality: Siboga Exped., stat. 297. The species is the type of the genus.

Family Coralliidae

**Corallium halmaheirens** Hickson, 1907: 6, figs. 5—6, 9; Kükenthal, 1924: 51.

Syntypes: 2 specimens, ZMA COEL. no. 2393.

Type locality: Siboga Exped., stat. 150.

**Corallium reginae** Hickson, 1907: 4, figs. 1—4, 8, 10; Kükenthal, 1924: 50.

Syntypes: several fragments, ZMA COEL. no. 2394, 2395.

Type locality: Siboga Exped., stat. 280 + stat. unknown.

Family Melithaeidae

**Melitodes modesta** Nutting, 1911a: 42, pl. 7 (figs. 2, 2a), pl. 12 (fig. 2); Kükenthal, 1924: 58; Hickson, 1937: 117 (partim). *Melithaea (modesta)*; Bayer, 1963: F200.

Holotype: ZMA COEL. no. 2860.

Paratypes: 2 specimens, ZMA COEL. no. 2858, 2859.

Type localities: Siboga Exped., stat. 273 (holotype), 164, 274. In the opinion of Hickson (1937: 117) both paratypes belong to the genus *Acabaria*.

**Melitodes squamata** Nutting, 1911a: 41, pl. 7 (figs. 1, 1a), pl. 12 (fig. 1); Hickson, 1937: 120; *M. squamosa* (sic); Kükenthal, 1924: 62. *Melithaea squamata*; Mai-Bao-Thu & Domantay, 1970: 45.

Holotype: ZMA COEL. no. 2867.

Type locality: Siboga Exped., stat. 299. A fragment has been donated to the State University of Iowa.

**Melitodes ochracea** Linnaeus, 1758, var. **decipiens** Hickson, 1937: 106, figs. 9 A-F. (Originally labeled: *Birotulata splendens* Nutting, 1911; not type material). *Melithaea ochracea*; Mai-Bao-Thu & Domantay, 1970: 43.

Holotype: ZMA COEL. no. 1649.

Type locality: Siboga Exped., stat. 258.

**Birotulata splendens** Nutting, 1911a: 56, pl. 10 (figs. 1, 1a, 2), pl. 12 (fig. 8). *Melitella splendens*; Hickson, 1937: 126; Stiasny, 1940d: 215; Mai-Bao-Thu & Domantay, 1970: 46.

Holotype: ZMA COEL. no. 1684.

Type locality: Siboga Exped., stat. 213. Nutting, in his monograph on the Siboga Scleraxonia, erroneously gave stat. 258 as the type locality. This was corrected by Hickson, 1937: 126. The species is the type of the genus *Birotulata*.

**Acabaria formosa** Nutting, 1911a: 46, pl. 7 (figs. 3, 3a), pl. 12 (fig. 3); Kükenthal, 1924: 77; Thomson & Dean, 1931: 197; Hickson, 1937: 160; Stiasny, 1940d: 227.

Holotype: ZMA COEL. no. 2100.

Type locality: Siboga Exped., stat. 240.

**Acabaria hicksoni** Nutting, 1911a: 47, pl. 8 (figs. 3, 3a), pl. 12 (fig. 4); Kükenthal, 1924: 79; Hickson, 1937: 179; Stiasny, 1951: 37.

Holotype: ZMA COEL. no. 2102.

Type locality: Siboga Exped., stat. 60. A fragment has been donated to the State University of Iowa.

**Acabaria nuttingi** Hickson, 1937: 158 (originally identified as *?Parisis minor* Wright & Studer, 1889 by Nutting, 1911a: 55).

Holotype: ZMA COEL. no. 2103 (cf. Pl. I fig. 1).

Type locality: Siboga Exped., stat. 139.

**Acabaria triangulata** Nutting, 1911a: 47, pl. 8 (figs. 2, 2a), pl. 12 (fig. 5); Hickson, 1937: 176. *Mopsella triangulata*; Kükenthal, 1924: 68.

Holotype: ZMA COEL. no. 2107.

Type locality: Siboga Exped., stat. 274.

**Mopsella spongiosa** Nutting, 1911a: 50, pl. 8 (figs. 1, 1a), pl. 12 (fig. 7); Kükenthal, 1924: 66; Dean, 1932: 15. *M. rubeola* var.; Hickson, 1937: 145.

Holotype: ZMA COEL. no. 2902.

Type locality: Siboga Exped., stat. 273.

**Mopsella studeri** Nutting, 1911a: 49, pl. 9 (figs. 1, 1a), pl. 12 (fig. 6); Stiasny, 1940d: 234. *Mopsella spinosa*; Kükenthal, 1924: 66. *M. rubeola*; Hickson, 1937: 138.

Syntypes: 12 specimens, ZMA COEL. no. 1615, 2903, 2904, 2905.

Type localities: Siboga Exped., stat. 71, 273, 274.

#### Suborder HOLAXONIA

#### Family Acanthogorgiidae

**Acanthogorgia striata** Nutting, 1910a: 20, pl. 1 (figs. 3, 3a), pl. 19 (fig. 3); Thomson & Dean, 1931: 208; Stiasny, 1947: 47. Spec. dub.; Kükenthal, 1924: 252.

Syntypes: 2 specimens, ZMA COEL. no. 2130.

Type localities: Siboga Exped., stat. 117, 253.

**Acanthogorgia studeri** Nutting, 1910a: 20, pl. 1 (figs. 1, 1a), pl. 19 (fig. 3); Kükenthal, 1924: 241; Hickson, 1932: 50. *Paracanthogorgia studeri*; Stiasny, 1947: 77.

Syntypes: 4 specimens, ZMA COEL. no. 2131.

Type localities: Siboga Exped., stat. 47, 117, 139, 274. One specimen has been donated to the Iowa State University. Fragments have been donated to the Rijksmuseum van Natuurlijke Historie at Leiden.

**Acanthogorgia turgida** Nutting, 1910a: 21, pl. 1 (figs. 2, 2a), pl. 19 (fig. 4); Kükenthal, 1924: 241; Stiasny, 1947: 50.

Syntypes: 4 specimens, ZMA COEL. no. 2134, 2135.

Type localities: Siboga Exped., stat. 204, 260, 297. One specimen has been donated to the Iowa State University, fragments to the Rijksmuseum van Natuurlijke Historie at Leiden.

Note: The genus *Paracanthogorgia*, dealt with immediately below, was erected by Stiasny in 1943 (Zool. Anz., 141 (5/6): 128) in a short note preceding his monograph on the family Acanthogorgiidae. In this note new species of this genus are mentioned, but descriptions and figures of these were given later on in his monograph (1947: Verh. Kon. Akad. Wetensch., sect. 2, 43 (2): 1—93). In the present list the new species are considered to be erected in 1947, not in 1943. Bayer (1963: 203) considers the distinction of *Paracanthogorgia* from *Acanthogorgia* to be unrealistic, a view which most specialists have agreed with. It will be refrained from repeating this synonymy with each of the following species of *Paracanthogorgia*.

**Paracanthogorgia paramuricata** Stiasny, 1947: 64, pl. 2 (figs. 11—12), text-figs.

N-O. (Originally identified as *Acanthogorgia muricata* Verrill, 1883 by Nutting, 1910a: 16, and Thomson & Dean, 1931: 208).

Syntypes: 2 specimens (fragments): ZMA COEL. no. 2120, 2121, 2122, 2123.

Type locality: Siboga Exped., stat. 253, 260.

**Paracanthogorgia pararidleyi** Stiasny, 1947: 67, pl. 2 (figs. 9—10), text-figs. P-

Q. (Originally identified as *Acanthogorgia ridleyi* Wright & Studer, 1889 by Nutting, 1910a: 12, and Stiasny, 1940d: 245).

- Part of the syntype series: several specimens, ZMA COEL. no. 2124, 2125.  
Type localities: Siboga Exped., stat. 5, 212, 259, Snellius Exped. stat. 60 (Binongka). The Snellius-syntypes are in the Rijksmuseum van Natuurlijke Historie at Leiden.
- Paracanthogorgia pararmata** Stiasny, 1947: 61, pl. 2 (figs. 7—8), text-figs. L-M. (Originally identified as *Acanthogorgia armata* Verrill, 1878 by Nutting, 1910a: 13).  
Syntypes: 2 specimens, ZMA COEL. no. 2996.  
Type locality: Pulu Weh, Sumatra; coll. van Nouhuys, 17-VIII-1908, 40 fthms.
- Paracanthogorgia paraspinosa** Stiasny, 1947: 70, pl. 3 (figs. 13—14), text-figs. R-S. (Originally identified as *Acanthogorgia spinosa* Hiles, 1899, by Nutting, 1910a: 14).  
Syntypes: 3 specimens, ZMA COEL. no. 2127.  
Type locality: Siboga Exped., stat. 310.
- Paracanthogorgia paratruncata** Stiasny, 1947: 73, pl. 3 (figs. 15, 18), text-figs. V-X. (Originally identified as *Acanthogorgia truncata* Studer, 1891 by Nutting, 1910a: 17).  
Syntypes: 4 specimens, ZMA COEL. no. 2132, 2133.  
Type locality: Siboga Exped., stat. 310.
- Acalycigorgia sibogae** Stiasny, 1947: 28, pl. 1 (figs. 4—5), text-figs. C-D. (Originally identified as *Acanthogorgia ceylonensis* Thomson & Henderson, 1905 by Nutting, 1910a: 19).  
Syntypes: 3 specimens, ZMA COEL. no. 2116.  
Type localities: Siboga Exped., stat. 47, 144, 257.
- Anthogorgia annectens** Thomson & Dean, 1931: 202, pl. 21 (fig. 10).  
Holotype: ZMA COEL. no. 2136.  
Type locality: Siboga Exped., stat. 302.
- Anthogorgia aurea** Nutting, 1910a: 26, pl. 3 (figs. 1, 1a), pl. 19 (fig. 9); Kükenthal, 1924: 180. *A. grandiflora*; Stiasny, 1942: 196.  
Syntypes: several fragments and one bigger specimen, ZMA COEL. no. 2237, 2238.  
Type localities: Siboga Exped., stat. 15, 144. Specimens have been donated to the Iowa State University and to the Rijksmuseum van Natuurlijke Historie at Leiden.
- Anthogorgia grandiflora** Kükenthal, 1924: 180 (= nom.nov. for *A. verrilli* Nutting, 1910 = not *A. verrilli* Thomson & Henderson, 1906). Stiasny, 1942: 196.  
Holotype: ZMA COEL. no. 2136.  
Type locality: Siboga Exped., stat. 305.
- Anthogorgia verrilli** Nutting, 1910a: 25, pl. 3 (figs. 2, 2a), pl. 19 (fig. 8). Non-*A. verrilli* Thomson & Henderson, 1906. See: *A. grandiflora* Kükenthal, 1924.

Family Paramuriceidae

**Anthomuricea brunnea** Nutting, 1910a: 23, pl. 3 (figs. 1, 1a), pl. 19 (fig. 6);  
Kükenthal, 1924: 168. According to Stiasny (1942: 196) it belongs to the  
family Acanthogorgiidae.

Holotype: ZMA COEL. no. 2240.

Type locality: East Coast of Pulau Weh, Sumatra; coll. van Nouhuys.

**Anthomuricea reticulata** Nutting, 1910a: 24, pl. 2 (figs. 3, 3a), pl. 19 (fig. 7);  
Kükenthal, 1924: 167; Stiasny, 1938a: 105.

Holotype: ZMA COEL. no. 1486.

Type locality: Siboga Exped., stat. 50.

**Anthomuricea timorensis** Nutting, 1910a: 23, pl. 2 (figs. 2, 2a); Kükenthal,  
1924: 168. According to Stiasny (1942: 196) it belongs to the family  
Acanthogorgiidae.

Holotype: ZMA COEL. no. 2252.

Type locality: Siboga Exped., stat. 60.

**Bebryce thomsoni** Nutting, 1910a: 49, pl. 8 (figs. 4, 4a), pl. 20 (fig. 20);  
Thomson & Dean, 1931: 206. *Pseudobebryce thomsoni*; Kükenthal, 1924:  
208; Stiasny, 1940c: 168.

Holotype: ZMA COEL. no. 2260.

Type locality: Siboga Exped., stat. 260.

**Calicogorgia sibogae** Stiasny, 1941d: 75, figs. 1—4. (Originally identified as  
*Psammogorgia arbuscula* Verrill, 1866, by Nutting, 1910a: 16).

Syntypes: 3 specimens, ZMA COEL. no. 3091, 3092.

Type locality: Siboga Exped., stat. 262.

**Echinogorgia complexa** Nutting, 1910a: 67, pl. 11 (figs. 1, 1a), pl. 21 (fig. 11);  
Kükenthal, 1924: 200; Thomson & Dean, 1931: 204; Dean, 1932: 19.

Syntypes: 6 specimens, ZMA COEL. no. 2506, 2507.

Type localities: Siboga Exped., stat. 164, 310. One specimen has been  
donated to the Iowa State University.

**Echinogorgia flora** Nutting, 1910a: 66, pl. 1 (figs. 2, 2a), pl. 21 (fig. 10);  
Kükenthal, 1924: 200; Stiasny, 1938c: 363.

Holotype: ZMA COEL. no. 2508.

Type locality: Siboga Exped., stat. 164.

**Echinogorgia ridleyi** Nutting, 1910a: 65, pl. 10 (figs. 4, 4a), pl. 21 (fig. 9);  
Kükenthal, 1924: 201.

Holotype: ZMA COEL. no. 2512.

Type locality: Siboga Exped., stat. 164.

**Menella grayi** Nutting, 1910a: 86, pl. 15 (figs. 2, 2a), pl. 22 (fig. 12);  
Kükenthal, 1924: 185; *Echinomuricea*, spec. inc.; Stiasny, 1942: 197.

Holotype: ZMA COEL. no. 2875.

Type locality: Siboga Exped., stat. 47.

**Menella rubescens** Nutting, 1910a: 85, pl. 15 (figs. 1, 1a), pl. 22 (fig. 13);  
Kükenthal, 1924: 185. *Echinomuricea indomalaccensis*; Stiasny, 1942: 197.

Syntypes: 3 specimens, ZMA COEL. no. 2876.

Type localities: Siboga Exped., stat. 66, 71, 315. The specimen from stat. 166 has been donated to the Iowa State University.

**Echinomuricea costata** Nutting, 1910a: 61, pl. 10 (figs. 1, 1a), pl. 21 (fig. 8); Kükenthal, 1924: 188. *Pseudothesea?*; Aurivillius, 1931: 172. *Pseudothesea costata*; Stiasny, 1942: 197.

Holotype: ZMA COEL. no. 2517.

Type locality: Siboga Exped., stat. 297.

**Echinomuricea pulchra** Nutting, 1910a: 59, pl. 10 (figs. 3, 3a), pl. 21 (fig. 7) Kükenthal, 1924: 187. *E. indomalaccensis*; Stiasny, 1942: 197.

Holotype: ZMA COEL. no. 2521.

Type locality: Siboga Exped., stat. 240.

**Echinomuricea spinifera** Nutting, 1910a: 59, pl. 9 (figs. 2, 2a), pl. 21 (fig. 6); Kükenthal, 1924: 186. *E. indomalaccensis* var.; Stiasny, 1942: 197.

Syntypes: 3 specimens, ZMA COEL. no. 2522.

Type localities: Siboga Exped., stat. 164, 274. The figured specimen from stat. 164 is missing.

**Filigorgia rioudouroi** Stiasny, 1937a: 307; Stiasny, 1939b: 306, pl. 13 (figs. 1—3), text-fig. E. *F. saharensis*; Utinomi, 1961: 216 (this is impossible as *F. saharensis* Stiasny, 1939, is junior to *F. rioudouroi* Stiasny, 1937; if both are synonymous the correct name must be *F. rioudouroi*).

Syntypes: numerous specimens, ZMA COEL. no. 2638, 2639, 2640.

Type localities: Rio d'Ouro, and False Cape, West Africa; coll. F. J. Vermeulen, 1906.

Note: Stiasny's report on the Gorgonaria collected by Th. Monod at Cape Blanco (1937a), in which this species is reported, appeared before the manuscript with the description of the new genus *Filigorgia*, the new species *F. saharensis* and *F. rioudouroi*, and the designation of *Stenogorgia africana* Kükenthal, 1919 to the new genus, was printed (1939b). No date of receipt of the manuscript can be found in this paper. Although Stiasny leaves no doubt which material he considers the type of *F. rioudouroi* (i.e. the present material), the original diagnosis of the species is given in a footnote in the paper on Monod's specimens (1937a). Hence *F. rioudouroi* is the type species of the genus, as it was the only species mentioned when the genus was first introduced (cf. Bayer, 1963: 206).

**Filigorgia saharensis** Stiasny, 1939b: 304, pl. 12 (figs. 1—3), text-fig. D; Utinomi, 1961: 216.

Syntypes: numerous fragments, ZMA COEL. no. 2641.

Type locality: Rio d'Ouro, West Africa; coll. F. J. Vermeulen, 1906.

**Elasmogorgia filigella** Thomson & Dean, 1931: 199, pl. 3 (fig. 1), pl. 7 (fig. 1), pl. 15 (fig. 10); Aurivillius (1931: 126) and Utinomi (1961: 216) consider *Elasmogorgia* Wright & Studer, 1889 synonymous with *Filigella* Gray, 1868.

Syntypes: 2 specimens, ZMA COEL. no. 2536.

Type locality: Siboga Exped., stat. 80.



**Heterogorgia clausa** Nutting, 1910a: 90, pl. 15 (figs. 4, 4a); Kükenthal, 1924: 232. *Astromuricea clausa* Stiasny, 1942: 197.

Syntypes: 3 specimens, ZMA COEL. no. 2663.

Type localities: Siboga Exped., stat. 80, 164, 274. One specimen has been donated to the State University of Iowa.

**Heterogorgia grandicalyx** Kükenthal, 1924: 230 (Originally identified as *H. verrucosa* Verrill, 1868 by Nutting, 1910a: 88).

Syntypes: 3 specimens, ZMA COEL. no. 1572. (cf. Pl. I figs. 2—3).

Type locality: Pulu Missoa, Flores.

Note: Kükenthal (1924) considered Nutting's identification of these specimens as *H. verrucosa* Verrill incorrect and erected a new species (not a *nomen novum* as Kükenthal stated).

**Heterogorgia humilis** Nutting, 1910a: 91, pl. 17 (figs. 1, 1a), pl. 22 (fig. 14); Kükenthal, 1924: 233. *Echinogorgia humilis*; Stiasny, 1942: 197.

Syntypes: 2 specimens, ZMA COEL. no. 2664.

Type locality: Siboga Exped., stat. 310.

**Heterogorgia magna** Nutting, 1910a: 92, pl. 16 (figs. 1, 1a), pl. 22 (fig. 15); Kükenthal, 1924: 233. *Echinomuricea magna*; Stiasny, 1942: 197.

Syntypes: 8 specimens, ZMA COEL. no. 1568, 1569, 1570, 1571, 1832, 2665, 2666.

Type localities: Siboga Exped., stat. 273, 299; Pulu Missoa, Flores (don. J. H. de Sisso). One specimen has been donated to the Iowa State University, a few fragments to the Rijksmuseum van Natuurlijke Historie at Leiden.

**Heterogorgia muricelloides** Nutting, 1910a: 89, pl. 15 (figs. 3, 3a), pl. 22 (fig. 18); Kükenthal, 1924: 233; Thomson & Dean, 1931: 207. *Echinomuricea muricelloides*; Stiasny, 1942: 197.

Holotype: ZMA COEL. no. 2667.

Type locality: Siboga Exped., stat. 47.

**Heterogorgia operculata** Nutting, 1910a: 94, pl. 18 (figs. 1, 1a); Kükenthal, 1924: 234. *Astromuricea operculata*; Stiasny, 1942: 197.

Holotype: ZMA COEL. no. 2669.

Type locality: Siboga Exped., stat. 117.

**Heterogorgia reticulata** Nutting, 1910a: 93, pl. 17 (figs. 2, 2a), pl. 22 (fig. 17); *H. flabellum*; Kükenthal, 1924: 234. *Echinomuricea parareticulata* nom.nov. Stiasny, 1942: 197 (non: *Echinomuricea reticulata* Thomson & Simpson, 1909).

Syntypes: 2 specimens, ZMA COEL. no. 1540, 2673.

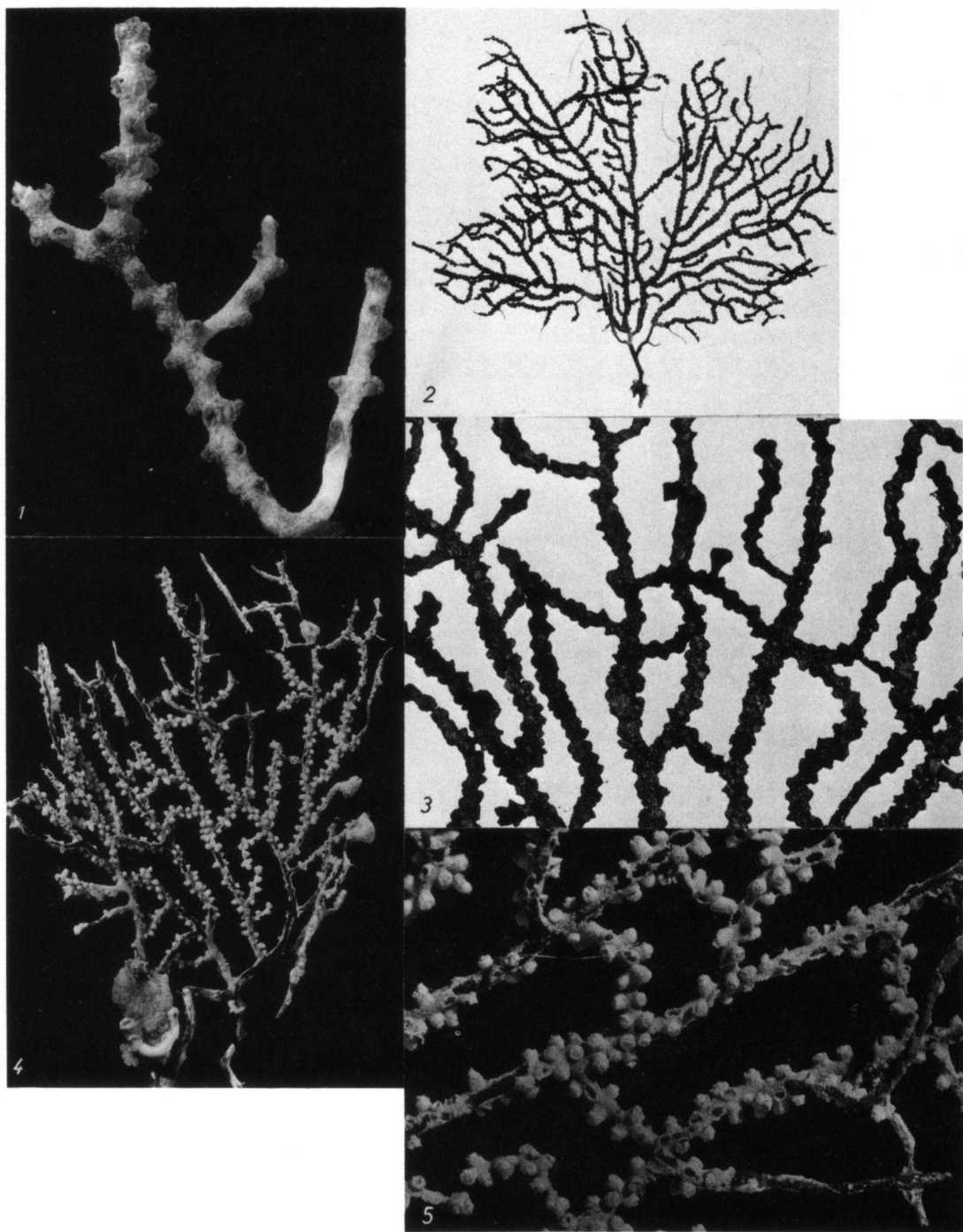
Type localities: Ternate; Pulu Missoa, Flores (don. J. H. de Sisso).

**Heterogorgia stellata** Nutting, 1910a: 91, pl. 15 (figs. 5, 5a), pl. 22 (fig. 16); Kükenthal, 1924: 231. *Echinomuricea stellata*; Stiasny, 1942: 197.

Holotype: ZMA COEL. no. 2674.

Type locality: Siboga Exped., stat. 60.

**Muriceides collaris** Nutting, 1910a: 28, pl. 4 (figs. 3, 3a), pl. 19 (fig. 10); Kükenthal, 1924: 164.



Pl. I. 1. *Acabaria nuttingi* Hickson, 1937, holotype ZMA COEL. no. 2103 ( $\times 2$ ), 2—3. *Heterogorgia grandicalyx* Kükenthal, 1924, one of the syntypes, ZMA COEL. no. 1572 (2:  $\times 0.2$ , 3:  $\times 1$ ), 4—5. *Brandella dubia* Kükenthal, 1924, one of the syntypes, ZMA COEL. no. 3637 (4:  $\times 1$ , 5:  $\times 4$ ).

Holotype: ZMA COEL. no. 2907.

Type locality: Siboga Exped., stat. 253.

*Muriceides dubia* Nutting, 1910a: 29, pl. 4 (figs. 2, 2a), pl. 19 (fig. 11);

Kükenthal, 1924: 163. Spec. inc.; Stiasny, 1942: 196.

Holotype: ZMA COEL. no. 2909.

Type locality: Siboga Exped., stat. 274.

*Muricella dubia* Nutting, 1910a: 34, pl. 5 (figs. 2, 2a), pl. 19 (fig. 13);

Kükenthal, 1924: 173. Spec. inc.; Stiasny, 1942: 196.

Holotype: ZMA COEL. no. 2914.

Type locality: Siboga Exped., stat. 310.

*Muricella grandis* Nutting, 1910a: 34, pl. 5 (figs. 4, 4a), pl. 19 (fig. 12);

Kükenthal, 1924: 173; Stiasny, 1939b: 340; Tixier-Durivault, 1966: 408.

Holotype: ZMA COEL. no. 2916.

Paratypes: 7 specimens, ZMA COEL, no. 2917.

Type localities: Siboga Exped., stat. 80, 117 (holotype), 144, 204, 260, 305.

One paratype specimen has been donated to the Iowa State University; fragments have been donated to the Rijksmuseum van Natuurlijke Historie at Leiden.

*Muricella stellata* Nutting, 1910a: 33, pl. 5 (figs. 1, 1a); Kükenthal, 1924: 171.

Holotype: 2 fragments, ZMA COEL. no. 2919.

Type locality: Siboga Exped., stat. 65a.

*Versluysia argentea* Nutting, 1910a: 40, pl. 5 (figs. 3, 3a), pl. 20 (fig. 1).

*Muricella argentea*; Kükenthal, 1924: 173; Thomson & Dean, 1931: 201; Stiasny, 1942: 196.

Holotype: ZMA COEL. no. 3615.

Type locality: Siboga Exped., stat. 289.

*Versluysia dentata* Nutting, 1910a: 38, pl. 6 (figs. 3, 3a), pl. 20 (fig. 2). *Muricella*

*dentata*; Kükenthal, 1924: 175; Stiasny, 1942: 196.

Syntypes: 4 specimens, ZMA COEL. no. 3622, 3623.

Type localities: Siboga Exped., stat. 166, 204, 260, 289. The specimen from stat. 166 has been donated to the Iowa State University.

*Versluysia operculata* Nutting, 1910a: 39, pl. 6 (figs. 2, 2a). *Muricella*

*operculata*; Kükenthal, 1924: 176; Stiasny, 1942: 196.

Holotype: ZMA COEL. no. 3626.

Type locality: Siboga Exped., stat. 220.

*Versluysia reticulata* Nutting, 1910a: 39, pl. 6 (figs. 1, 1a), pl. 20 (fig. 4).

*Muricella reticulata*; Kükenthal, 1924: 177; Stiasny, 1942: 196.

Holotype + 3 paratypes: ZMA COEL. no. 3627.

Type localities: Siboga Exped., stat. 273 (not 272 as is stated in the Siboga Monograph), 310 (holotype). Fragments have been donated to the Rijksmuseum van Natuurlijke Historie at Leiden.

*Versluysia rosea* Nutting, 1910a: 37, pl. 6 (figs. 4, 4a), pl. 20 (fig. 3). *Muricella*

*rosea*; Kükenthal, 1924: 171; Stiasny, 1942: 196.

Syntypes: 4 specimens, ZMA COEL. no. 3628, 3629.

Type localities: Siboga Exped., stat. 204, 305. One specimen has been donated to the Iowa State University.

**Acis serrata** Nutting, 1910a 44, pl. 7 (figs. 1, 1a), pl. 20 (fig. 7). *Paracis serrata*; Kükenthal, 1924: 159; Stiasny, 1942: 196.

Holotype: ZMA COEL. no. 2140.

Type locality: Siboga Exped., stat. 204.

**Acis solorensis** Nutting, 1910a: 43, pl. 7 (figs. 3, 3a), pl. 20 (fig. 6). *Paracis solorensis*; Kükenthal, 1924: 159; Stiasny, 1942: 196.

Syntypes: 3 specimens, ZMA COEL. no. 2141.

Type localities: Siboga Exped., stat. 305, 289. The two specimens from stat. 289 are missing.

**Acis squamata** Nutting, 1910a: 42, pl. 7 (figs. 2, 2a), pl. 20 (fig. 5). *Paracis squamata*; Kükenthal, 1924: 158; Stiasny, 1942: 196.

Syntypes: 3 specimens, ZMA COEL. no. 2142.

Type localities: Siboga Exped., stat. 65a, 253, 305. The specimen from stat. 65a has been donated to the Iowa State University.

**Placogorgia alternata** Nutting, 1910a: 83, pl. 13 (figs. 2, 2a), pl. 22 (fig. 7).

*Discogorgia alternata*; Kükenthal, 1924: 213.

Syntypes: 2 specimens, ZMA COEL. no. 3041.

Type localities: Siboga Exped., stat. 204, 305.

**Placogorgia bebrycoides** Nutting, 1910a: 83, pl. 13 (figs. 4, 4a), pl. 22 (fig. 11).

*Discogorgia bebrycoides*; Kükenthal, 1924: 213; Thomson & Dean, 1931: 206. *Paracis bebrycoides*; Stiasny, 1942: 197.

Syntypes: 5 specimens, ZMA COEL. no. 3042.

Type localities: Siboga Exped., stat. 164, 274, 305. The specimen from stat. 274 has been donated to the Iowa State University.

**Placogorgia campanulifera** Nutting, 1910a: 77, pl. 11 (figs. 3, 3a), pl. 21 (fig.

13). *Discogorgia campanulifera*; Kükenthal, 1924: 213; Stiasny, 1938a: 104.

*Paracis campanulifera*; Stiasny, 1942: 197.

Holotype: ZMA COEL. no. 3043.

Type locality: Siboga Exped., stat. 47. The species is the type of the genus *Discogorgia* Kükenthal, 1919: 812.

**Placogorgia cryptotheca** Nutting, 1910a: 80, pl. 12 (figs. 3, 3a), pl. 22 (fig. 5).

Spec. inc. (*Plexauroides*?); Kükenthal, 1924: 211. Spec. inc.; Stiasny, 1942: 197.

Syntypes: 5 specimens, ZMA COEL. no. 3044.

Type localities: Siboga Exped., stat. 117, 164, 260, 273, 274. The specimen from stat. 273 has been donated to the Iowa State University; some fragments have been donated to the Rijksmuseum van Natuurlijke Historie at Leiden.

**Placogorgia dendritica** Nutting, 1910a: 79, pl. 12 (figs. 1, 1a), pl. 22 (fig. 6).

*Discogorgia dendritica*; Kükenthal, 1924: 214; Utinomi, 1961: 203.

Syntypes: 5 specimens, ZMA COEL. no. 3045, 3046, 3047.

Type localities: Siboga Exped., stat. 117, 204. One specimen has been donated to the Iowa State University.

**Placogorgia dentata** Nutting, 1910a: 80, pl. 12 (figs. 4, 4a), pl. 22 (fig. 1a);

Stiasny, 1940d: 240. Spec. inc. (*Echinogorgia*?); Kükenthal, 1924: 211. Spec.

- inc.; Stiasny, 1942: 197.  
Holotype: ZMA COEL. no. 3048.  
Type locality: Pulu Missoa (Flores); don. J. H. de Sisso.
- Placogorgia pulchra** Nutting, 1910a: 78, pl. 11 (figs. 4, 4a), pl. 22 (fig. 4).  
*Discogorgia pulchra*; Kükenthal, 1924: 114. ?*Plexauropsis pulchra*; Stiasny, 1942: 197.  
Holotype: ZMA COEL. no. 3049.  
Type locality: Siboga Exped., stat. 258.
- Placogorgia reticuloides** Nutting, 1910a: 84, pl. 18 (figs. 2, 2a). *Discogorgia reticuloides*; Kükenthal, 1924: 214. *Plexauroides reticuloides*; Stiasny, 1942: 197.  
Syntypes: 2 specimens, ZMA COEL. no. 3050, 3051.  
Type localities: Siboga Exped., stat. 273, 305. The specimen from stat. 273 is missing, that of stat. 305 fragmentary.
- Placogorgia squamata** Nutting, 1910a: 81, pl. 12 (figs. 2, 2a), pl. 22 (fig. 8).  
Spec. inc. (*Echinogorgia*?); Kükenthal, 1924: 212.  
Syntypes: 4 specimens, ZMA COEL. no. 3052.  
Type localities: Siboga Exped., stat. 43, 274, 310. The specimen from stat. 274 has been donated to the Iowa State University.
- Placogorgia studeri** Nutting, 1910a: 82, pl. 13 (figs. 1, 1a), pl. 22 (fig. 9). Spec. inc. (*Echinogorgia*?); Kükenthal, 1924: 212. *Paracis alba*; Stiasny, 1942: 197.  
Holotype: ZMA COEL. no. 3053.  
Type locality: Siboga Exped., stat. 260.
- Stenogorgia studeri** Nutting, 1910b: 7, pl. 2 (figs. 1, 1a), pl. 3 (figs. 3, 3a); Kükenthal, 1912: 327; Kükenthal, 1924: 348. *Swiftia (studeri)*; Bayer, 1963: 206.  
Holotype: ZMA COEL. no. 3435.  
Type locality: Siboga Exped., stat. 310.
- Platycaulus sibogae** Nutting, 1910b: 8, pl. 2 (figs. 2, 2a), pl. 3 (fig. 4); *Swiftia (sibogae)*; Bayer, 1963: 206.  
Holotype: ZMA COEL. no. 3054.  
Type locality: Siboga Exped., stat. 213.
- Thesea flava** Nutting, 1910a: 52, pl. 8 (figs. 1, 1a). *Pseudothesea flava*; Kükenthal, 1924: 228; Stiasny, 1942: 196.  
Syntypes: 6 specimens, ZMA COEL. no. 3565.  
Type localities: Siboga Exped., stat. 50, 105, 164, 273, 274. The specimen from stat. 105 has been donated to the Iowa State University; some fragments have been donated to the Rijksmuseum van Natuurlijke Historie at Leiden.
- Thesea flexilis** Nutting, 1910a: 54, pl. 9 (figs. 4, 4a), pl. 21 (fig. 3); *Pseudothesea flexilis*; Kükenthal, 1924: 229; Stiasny, 1938a: 105; Stiasny, 1942: 196.  
Syntypes: 2 specimens, ZMA COEL. no. 3566.  
Type localities: Siboga Exped., stat. 260, 285.
- Thesea immersa** Nutting, 1910a: 53, pl. 8 (figs. 4, 4a), pl. 21 (fig. 4); *Pseudothesea immersa*; Kükenthal, 1924: 229.

Holotype: ZMA COEL. no. 3567.

Type locality: Siboga Exped., stat. 289.

**Thesea pallida** Nutting, 1910a: 51, pl. 8 (figs. 3, 3a), pl. 20 (fig. 10); *Pseudothesea pallida*; Kükenthal, 1924: 228; Stiasny, 1940d: 242; Stiasny, 1942: 196.

Syntypes: 4 specimens, ZMA COEL. no. 3568.

Type localities: Siboga Exped., stat. 204, 274, 310. The specimen from stat. 274 has been donated to the Iowa State University.

**Thesea placoderma** Nutting, 1910a: 54, pl. 9 (figs. 3, 3a), pl. 21 (fig. 2); Thomson & Dean, 1931: 200. *Pseudothesea placoderma*; Kükenthal, 1924: 228; Stiasny, 1942: 196.

Holotype: ZMA COEL. no. 3569.

Type locality: Siboga Exped., stat. 310. The species is the type of the genus *Pseudothesea* Kükenthal; 1919: 843.

**Thesea sanguinea** Nutting, 1910a: 55, pl. 9 (figs. 5, 5a), pl. 21 (fig. 1); Thomson & Dean, 1931: 200. *Pseudothesea sanguinea*; Kükenthal, 1924: 228; Stiasny, 1942: 196.

Syntypes: 4 specimens, ZMA COEL. no. 3571.

Type localities: Siboga Exped., stat. 60, 125, 273, 315. The specimen from stat. 60 has been donated to the Iowa State University.

**Thesea simplex** Nutting, 1910a: 51, pl. 8 (figs. 2, 2a), pl. 20 (fig. 9). *Pseudothesea simplex*; Kükenthal, 1924: 229; Stiasny, 1942: 196.

Syntypes: 3 specimens, ZMA COEL. no. 3573.

Type localities: Siboga Exped., stat. 49a, 108, 260. Half of one specimen has been donated to the Iowa State University.

**Villogorgia flavescens** Nutting, 1910a: 75, pl. 14 (figs. 1, 1a), pl. 22 (fig. 1). *Brandella flavescens*; Kükenthal, 1924: 219. Inc. sedis; Stiasny, 1942: 197.

Syntypes: 3 specimens, ZMA COEL. no. 3632, 3633.

Type localities: Siboga Exped., stat. 38, 117, 256. The specimen from stat. 256 is missing. Fragments have been donated to the Rijksmuseum van Natuurlijke Historie at Leiden.

**Villogorgia inermis** Nutting, 1910a: 75, pl. 14 (figs. 4, 4a), pl. 22 (fig. 2). *Brandella inermis*; Kükenthal, 1924: 216; Stiasny, 1941e: 140. Inc. sedis; Stiasny, 1942: 197.

Holotype: ZMA COEL. no. 3635.

Type locality: Siboga Exped., stat. 299.

**Villogorgia timorensis** Nutting, 1910a: 74, pl. 14 (figs. 3, 3a), pl. 22 (fig. 3). *Brandella timorensis*; Kükenthal, 1924: 217. *Villogorgia rubra*; Stiasny, 1942: 197.

Syntypes: 3 specimens, ZMA COEL. no. 3641.

Type localities: Siboga Exped., stat. 166, 260, 289. The specimen from stat. 166 is missing.

**Brandella dubia** Kükenthal, 1924: 217. (Originally identified as *Villogorgia intricata* (Gray, 1870) by Nutting, 1910: 72). Non: *Brandella intricata* Gray, 1870; Kükenthal, 1924: 218. *Villogorgia dubia*; Stiasny, 1942: 197.

(According to Bayer, 1963: 210, this is correct as *Brandella* Gray, 1870 is a junior synonym of *Villogorgia* Duchassaing & Michelotti, 1860).  
Syntypes: 3 specimens, ZMA COEL. no. 3636, 3637 (Pl. I figs. 4—5).  
Type localities: Siboga Exped., stat. 274, 305, 310. The specimen from stat. 305 has been donated to the Iowa State University.

Note: Kükenthal (1924: 217) erroneously stated that *Brandella dubia* is a *nomen novum*; in reality he erected a new species.

### Family Plexauridae

Note: All *Plexaura*-species from the Siboga Expedition described by Nutting (1910c), with the exception of *P. aggregata*, are assigned to the genus *Euplexaura* Verrill, 1865 by all recent revisors. The genus *Plexaura* is restricted to the tropical West Atlantic.

***Plexaura aggregata*** Nutting, 1910c: 4, pl. 1 (figs. 1, 1a); Stiasny, 1935a: 240; Stiasny, 1935b: 46. *Euplexaura thomsoni*; Kükenthal, 1924: 99. *Rumphella aggregata*; Bayer, 1955: 212.

Syntypes: 5 specimens, ZMA COEL. no. 1668, 3058, 3059, 3060.

Type localities: Siboga Exped., stat. 58, 65, 213, 258, 315. The species is the type of the genus *Rumphella* Bayer, 1955. The specimen from stat. 315 is in the United States National Museum (reg. no. 43461).

***Plexaura attenuata*** Nutting, 1910c: 5, pl. 1 (figs. 2, 2a), pl. 4 (fig. 2). *Euplexaura attenuata*; Kükenthal, 1924: 100; Stiasny, 1935a: 236; Stiasny, 1935b: 13; Utinomi, 1961: 216.

Syntypes: 4 specimens, ZMA COEL. no. 3061, 3062, 3063.

Type localities: Siboga Exped., stat. 162, 164, 285; Bay of Batavia (leg. Sluiter). One fragment has been donated to the Iowa State University.

***Plexaura capoblancoi*** Stiasny, 1936a: 203; Stiasny, 1936b: 13, pl. 2 (figs. 4, 4a—b), text-fig. C.

Holotype (fragm.): ZMA COEL. no. 1637, 3064.

Type locality: Cape Blanco, West-Africa; coll. F. J. Vermeulen, 1906.

***Plexaura flava*** Nutting, 1910c: 8, pl. 2 (figs. 1, 1a), pl. 4 (figs. 6a—d); Stiasny, 1935a: 241; Stiasny, 1935b: 55; Stiasny, 1940d: 239. *Euplexaura flava*; Kükenthal, 1924: 100.

Syntypes: at least 5 specimens, ZMA COEL. no. 3065, 3066, 3067.

Type localities: Siboga Exped., stat. 19, 60, 142, 273. The specimens from stat. 19 (a number of fragments of apparently more than one specimen) are missing; they have probably been donated to the State University of Iowa.

***Plexaura pinnata*** Nutting, 1910c: 7, pl. 1 (figs. 3, 3a), pl. 4 (fig. 5). *Euplexaura nuttingi* nom. nov. Kükenthal, 1919: 233 (non: *E. pinnata* Wright & Studer, 1889). Spec. inc.; Kükenthal, 1924: 100.

Holotype: ZMA COEL. no. 3074.

Type locality: Siboga Exped., stat. unknown.

**Plexaura platystoma** Nutting, 1910c: 7, pl. 2 (fig. 2), pl. 4 (figs. 4a—c).

*Euplexaura platystoma* (spec. inc.); Kükenthal, 1924: 99; Stiasny, 1935b: 17.

Holotype: ZMA COEL. no. 3075.

Type locality: Siboga Exped., stat. 43.

**Plexaura recta** Nutting, 1910c: 6, pl. 2 (figs. 3, 3a), pl. 4 (figs. 3a—c).

*Euplexaura recta* (spec. inc.); Kükenthal, 1924: 99; Stiasny, 1935a: 237; Stiasny, 1935b: 18.

Syntypes: 5 specimens, ZMA COEL. no. 1822, 2633.

Type localities: Siboga Exped., stat. 273, 299; Pulu Missoa (Flores), don. J. H. de Sisso. The specimen from stat. 273 has been donated to the State University of Iowa.

**Euplexaura cervicornis** Stiasny, 1935a: 237; Stiasny, 1935b: 15, pl. 2 (fig. 8), text-fig. C.

Holotype: ZMA COEL. no. 2629.

Type locality: Siboga Exped., stat. 258.

**Euplexaura maghrebensis** Stiasny, 1936a: 201; Stiasny, 1936b: 7, pl. 1 (figs. 1, 1a), text-fig. A; Stiasny, 1937a: 100. *Leptogorgia maghrebensis*; Stiasny, 1951: 7.

Holotype: ZMA COEL. no. 1810.

Paratypes: 2 specimens, ZMA COEL. no. 2631.

Type locality: Cape Blanco, West-Africa; coll. F. J. Vermeulen.

**Euplexaura maghrebensis** Stiasny, 1935 var. *gracilis* Stiasny, 1936a: 202; Stiasny, 1936b: 11, pl. 1 (figs. 2, 2a), text-fig. A; Stiasny, 1939d: 24.

Holotype: ZMA COEL. no. 2630.

Paratypes: 21 specimens, ZMA COEL. no. 1803.

Type locality: Cape Blanco, West-Africa; coll. F. J. Vermeulen. 5 Paratypes are missing.

**Euplexaura mollis** Nutting, 1910c: 13, pl. 3 (fig. 4), pl. 4 (fig. 8); Kükenthal, 1924: 94. *Suberogorgia mollis*; Stiasny, 1937b: 98; Stiasny, 1939e: 177; Stiasny, 1940d: 204; Bayer, 1963: 197; Mai-Bao-Thu & Domantay, 1970: 41.

Syntypes: 2 specimens, ZMA COEL. no. 3498.

Type locality: Siboga Exped., stat. 299.

**Euplexaura purpureoviolacea** Stiasny, 1936a: 202; Stiasny, 1936b: 11, pl. 2 (figs. 3, 3a—d), text-fig. B; Stiasny, 1937a: 301; Stiasny, 1939c: 25; Stiasny, 1940b: 346; Stiasny, 1941e: 122; Stiasny, 1951: 16.

Holotype: ZMA COEL. no. 1796.

Paratype: ZMA COEL. no. 2632.

Type locality: Cape Blanco, West-Africa; coll. F. J. Vermeulen, 1906.

**Euplexaura reticulata** Nutting, 1910c: 14, pl. 3 (figs. 2, 2a), pl. 4 (fig. 9); Kükenthal, 1924: 94. *Suberogorgia reticulata* (Ellis & Solander, 1786) Stiasny, 1937b: 101.

Syntypes: 3 specimens, ZMA COEL. no. 3504.

Type localities: Siboga Exped., stat. 38, 144. One specimen has been donated to the State University of Iowa.



**Euplexaura rubra** Nutting, 1910c: 12, pl. 3 (figs. 3, 3a), pl. 4 (fig. 7). Inc. sedis; Kükenthal, 1924: 99; Stiasny, 1940c: 167. *Suberogorgia nuttingi* nom. nov. Stiasny, 1937b: 109 (non: *Suberogorgia rubra* Thomson, 1905).

Holotype: ZMA COEL. no. 3500.

Type locality: Siboga Exped., stat. 164.

**Eunicea inexpectata** Stiasny, 1939b: 291, pl. 10 (figs. 1, 2), text-fig. A; Stiasny, 1951: 69.

Syntypes: 2 specimens, ZMA COEL. no. 2611

Type locality: Senegal.

**Eunicea multicauda** Lamouroux, 1816 var. **gordoni** Stiasny, 1935a: 243; Stiasny, 1935b: 81, pl. 7 (figs. 38, 39), text-fig. V. *Eunicea (Euniceopsis) calyculata* forma *calyculata*; Bayer, 1961: 154.

Syntypes: 5 specimens (fragm.), ZMA COEL. no. 2612.

Type localities: Caracas Bay (Curaçao; coll. C. J. van der Horst, 29-IV-1920) and Tortugas (coll. H. Boschma). The Tortugas specimen is in the Rijksmuseum van Natuurlijke Historie at Leiden.

**Eunicella ctenocelloides** Stiasny, 1936a: 204; Stiasny, 1936b: 17, pl. 3 (figs. 6, 6a), text-fig. E; Stiasny, 1937a: 301; Stiasny, 1938b: 17; Stiasny, 1951: 6.

Syntypes: 21 specimens, ZMA COEL. no. 1825, 2615.

Type locality: Cape Blanco, West-Africa; coll. F. J. Vermeulen, 1906. Three specimens are missing.

**Eunicella verrucosa** (Pallas, 1766) var. **typica** Stiasny, 1935b: 102; 1938b: 35, pl. 5 (fig. 18); Stiasny, 1939c: 24; Stiasny, 1939d: 27; Stiasny, 1940b: 348; Stiasny, 1941a: 481; Stiasny, 1941c: 261; Stiasny, 1951: 17.

The material on which Stiasny based his distinction of the typical form ("many specimens from the Mediterranean, Portugal and West Africa") is partly in the ZMA collections. Two particular specimens, ZMA COEL. no. 2619 and 2623 bear the label "*Eunicella verrucosa* (Pall.) (var. *typica*, var. *type*"). They originate from Senegal and Cape Blanco.

**Hicksonella princeps** Nutting, 1910c: 15, pl. 3 (figs. 1, 1a), pl. 4 (figs. 10a, g); Bayer, 1963: 210. *Rhabdoplexaura princeps*; Kükenthal, 1924: 100; Stiasny, 1935a: 237; Stiasny, 1935b: 22.

Syntypes: 5 specimens, ZMA COEL. no. 2678, 2703.

Type locality: Siboga Exped., stat. 299? (Nutting gives stat. 240 and 315, but the specimens in the ZMA collection bearing labels with "type" on it are all from stat. 299 according to the labels). The species is the type of the genus *Hicksonella* Nutting.

Note: Kükenthal (1924) was of the opinion that *Hicksonella* Nutting, 1910, was published at a later date than *Hicksonella* Simpson, 1910, and he gave a new name to the genus: *Rhabdoplexaura*. This apparently is erroneous (see Bayer, 1963: 210), so that *Rhabdoplexaura princeps* is a junior synonym of *Hicksonella princeps*.

**Plexauroides ramosissima** Stiasny, 1935a: 243; Stiasny, 1935b: 90, pl. 6 (fig. 27), text-fig. X.

Holotype: ZMA COEL. no. 1613.

Type locality: Indonesia.

**Plexaurella porosa** Gordon, 1925: 22, pl. 3 (fig. 9), pl. 4 (fig. 7); Stiasny, 1935b 31. ?*Pseudoplexaura flagellosa*; Bayer, 1961: 112.

Holotype: ZMA COEL. no. 1627.

Type locality: Caracas Bay, Curaçao; coll. C. J. van der Horst, 29-IV-1920.

**Plexaurella vanderhorsti** Stiasny, 1935a: 238; Stiasny, 1935b: 33, pl. 3 (fig. 11), text-fig. I. (Originally identified as *Pseudoplexaura crassa* Wright & Studer, 1889, by Gordon, 1925: 21).

Holotype (fragm.): ZMA COEL. no. 1678.

Type locality: Caracas Bay, Curaçao; coll. C. J. van der Horst, 29-IV-1920.

**Plexauropsis mauretaniensis** Stiasny, 1936a: 203; Stiasny, 1936b: 15, pl. 3 (figs. 5, 5a), text-fig. D. *Muriceides chuni*; Stiasny, 1940b: 349; Stiasny, 1941e: 123; Stiasny, 1951: 69.

Holotype: ZMA COEL. no. 1620.

Paratypes: 2 specimens, ZMA COEL. no. 1621.

Type locality: Cape Blanco, West-Africa; coll. F. J. Vermeulen, 1906.

**Psammogorgia anastomosans** Stiasny, 1935a: 239; Stiasny, 1935b: 38, pl. 2 (fig. 6), text-fig. K.

Holotype: ZMA COEL. no. 1675.

Type locality: Moluccas, don. van Heukelom.

#### Family Gorgoniidae

**Leptogorgia albipunctata** Stiasny, 1936b: 29, pl. 6 (figs. 13, 13a), text-fig. K.

Holotype (fragm.): ZMA COEL. no. 1542, 2679.

Type locality: Cape Blanco, West-Africa; coll. F. J. Vermeulen, 1906.

**Leptogorgia dakarensis** Stiasny, 1939b: 313, pl. 16 (figs. 1—2), text-fig. H.

Syntypes: 4 specimens, ZMA COEL. no. 2770, 2771.

Type locality: Senegal, depth 15 fthm.; coll. F. J. Vermeulen. Two specimens are missing.

**Leptogorgia formosa** Nutting, 1910b: 5, pl. 1 (figs. 2, 2a), pl. 3 (fig. 2).

Holotype: ZMA COEL. no. 1544.

Type locality: Siboga Exped., stat. 33.

**Leptogorgia purpureomaculata** Stiasny, 1936b: 31, pl. 6 (figs. 12, 12a), text-fig. L; Stiasny, 1939a: 140; Stiasny, 1939c: 26; Stiasny, 1939d: 45; Stiasny, 1941e: 127.

Holotype: ZMA COEL. no. 1543.

Paratypes: 2 specimens, ZMA COEL. no. 2772.

Type locality: Cape Blanco, West-Africa; coll. F. J. Vermeulen, 1906. One of the paratypes has been donated to the Rijksmuseum van Natuurlijke Historie at Leiden.

**Leptogorgia rubroflavescens** Stiasny, 1939b: 315, pl. 17 (figs. 1—2), text-fig. I.

Syntypes: 3 specimens, ZMA COEL. no. 2773, 2774.

Type locality: Cape Blanco, West-Africa; coll. F. J. Vermeulen, 1906.

**Leptogorgia senegalensis** Stiasny, 1939b: 317, pl. 18 (figs. 1—2), text-fig. J.

Holotype: ZMA COEL. no. 2775.

Type locality: Senegal; coll. F. J. Vermeulen, 1906.

**Lophogorgia cabofalsolei** Stiasny, 1939b: 308, pl. 14 (fig. 1), pl. 15 (figs. 1—3), text-fig. F.

Syntypes: 2 specimens, ZMA COEL. no. 2833, 2834.

Type locality: Falce Cape, West-Africa; coll. F. J. Vermeulen, 1906.

**Lophogorgia occidafricana** Stiasny, 1936b: 28, pl. 5 (figs. 10, 10a), text-fig. J; Stiasny, 1937a: 307; Stiasny, 1939d: 42.

Holotype: ZMA COEL. no. 1656.

Paratype: ZMA COEL. no. 2836.

Type locality: Cape Blanco, West-Africa; coll. F. J. Vermeulen, 1906.

**Lophogorgia pinnata** Nutting, 1910b: 3, pl. 1 (figs. 1, 1a), pl. 3 (fig. 1). *Pseudopterogorgia pinnata*; Kükenthal, 1924: 357; Thomson & Dean, 1931: 209.

Holotype: ZMA COEL. no. 2837.

Type locality: Siboga Exped., stat. 273.

#### Family Ellisellidae

**Ellisella flava** Nutting, 1910d: 31, pl. 9 (figs. 4, 4a), pl. 11 (fig. 3). *Scirpearia filiformis*; Kükenthal, 1924: 370.

Holotype: ZMA COEL. no. 2539.

Type locality: Siboga Exped., stat. 117.

**Ellisella gruveli** Stiasny, 1936b: 26, pl. 5 (figs. 11, 11a), text-fig. I. *Lophogorgia gruveli*; Stiasny, 1937a: 308.

Holotype: ZMA COEL. no. 1657.

Paratypes: 3 specimens, ZMA COEL. no. 1658, 1659, 2540.

Type locality: Cape Blanco, West-Africa; coll. F. J. Vermeulen, 1906.

**Ellisella paraplexauroides** Stiasny, 1936a: 204; Stiasny, 1936b: 22, pl. 4 (figs. 8, 8a), text-fig. G; Stiasny, 1937a: 313; Grasshoff, 1972: 81.

Holotype: ZMA COEL. no. 2541.

Paratypes: 2 specimens, ZMA COEL. no. 1812.

Type locality: Cape Blanco, West Africa; coll. F. J. Vermeulen, 1906.

**Ellisella vermeuleni** Stiasny, 1936a: 205; Stiasny, 1936b: 24, pl. 4 (figs. 9, 9a), text-fig. H.

Holotype (fragm.): ZMA COEL. no. 1797, 2542. One paratype.

Type locality: Cape Blanco, West-Africa; coll. F. J. Vermeulen, 1906. The paratype is in the Rijksmuseum van Natuurlijke Historie at Leiden.

**Scirpearella hemispherica** Nutting, 1910d: 27, pl. 5 (figs. 2, 2a), pl. 10 (fig. 6). *Ellisella laevis*; Kükenthal, 1924: 366.

Holotype: ZMA COEL. no. 3231.

Type locality: Siboga Exped., stat. 60.

**Scirpearella regia** Nutting, 1910d: 26, pl. 8 (figs. 1, 1a), pl. 10 (fig. 5). *Ellisella andamanensis*; Kükenthal, 1924: 367; Stiasny, 1951: 33.

Holotype: ZMA COEL. no. 1680.

Type locality: Siboga Exped., stat. 172.

**Juncella sanguinea** Nutting, 1910d: 22, pl. 5 (figs. 1, 1a), pl. 10 (figs. 4).

*Junceella juncea* subsp. *gemmacea*; Kükenthal, 1924: 363.

Syntypes: 2 specimens, ZMA COEL. no. 2737.

Type locality: Siboga Exped., stat. 299. One of the specimens has been donated to the Iowa State University.

**Nicella carinata** Nutting, 1910d: 29, pl. 9 (figs. 1, 1a), pl. 11 (fig. 2); Kükenthal, 1924: 379; Thomson & Dean, 1931: 210; Stiasny, 1940a: 345; Stiasny, 1940d: 247; Tixier-Durivault, 1966: 427.

Syntypes: 12 specimens, ZMA COEL. no. 2965, 2966.

Type localities: Siboga Exped., stat. 117, 154, 213, 257, 260, 305. One specimen has been donated to the Iowa State University.

**Nicella coralloides** Nutting, 1910d: 28, pl. 9 (figs. 2, 2a), pl. 11 (fig. 1).

*N. dichotoma*; Kükenthal, 1924: 378.

Syntypes: 5 specimens, ZMA COEL. no. 2967, 2969.

Type localities: Siboga Exped., stat. 117, 257. One specimen has been donated to the Iowa State University.

**Verrucella flaviflora** Nutting ("new name"), 1910d: 12, pl. 1 (figs. 1, 1a) (Nutting gives no clue for which old name his substitute is intended. It is listed here, as it may have been intended as a new species instead of a new name). *Ellisella ceylonensis*; Kükenthal, 1924: 366.

ZMA COEL. no. 3612: one specimen from Siboga Exped., stat. 47.

**Verrucella stellata** Nutting, 1910d: 13, pl. 2 (figs. 1, 1a), pl. 10 (fig. 3). *Ellisella andamanensis*; Kükenthal, 1924: 367.

Holotype (fragm.): ZMA COEL. no. 3614.

Type locality: Siboga Exped., stat. 310.

**Gorgonella delicatula** Nutting, 1910d: 9, pl. 1 (figs. 2, 2a), pl. 10 (fig. 1). *G. miniacea*; Kükenthal, 1924: 380. *Verrucella (delicatula)*; Bayer, 1955: 215.

Syntypes: 2 specimens, ZMA COEL. no. 2646.

Type locality: Siboga Exped., stat. 257.

**Gorgonella rigida** Nutting, 1910d: 10, pl. 1 (figs. 3, 3a), pl. 10 (fig. 2). *G. sanguinolenta*; Kükenthal, 1924: 381. *Verrucella (rigida)*; Bayer, 1955: 215.

Syntypes: 4 specimens, ZMA COEL. no. 2648.

Type localities: Siboga Exped., stat. 50, 204, 260, 305. Only the specimens from stat. 260 and 305 are present. One specimen has been donated to the Iowa State University, the remaining one is unaccounted for.

**Isidoides armata** Nutting, 1910d: 33, pl. 8 (figs. 2, 2a), pl. 11 (fig. 1).

Holotype (2 fragments): ZMA COEL. no. 2711.

Type locality: Siboga Exped., stat. 267 (according to the Siboga Monograph) or 297 (according to the label attached to the specimen). The species is the type of the genus by monotypy.

Note: This species has been placed in the family Gorgonellidae (= Ellisellidae) by Nutting. As there are apparently no references in the literature to it, Nutting's classification has been followed. Kükenthal, (1919:

806), in his account of the distribution of the Gorgonacea collected by the "Valdivia", places a question mark in front of the present species. Presumably he considered it spec. inc. sedis. In his monograph of 1924 he omits this species, but mentions it in his alphabetical register.

#### Family Ifalukellidae

**Plumigorgia hydroides** Nutting, 1910d: 32, pl. 9 (figs. 3, 3a), pl. 11 (fig. 4); Stiasny, 1940d: 248; Bayer, 1955: 214; Bayer, 1963: 216.

Syntypes: numerous fragments, ZMA COEL. no. 3083.

Type localities: Siboga Exped., stat. 96, 123. One fragment has been donated to the Iowa State University. The species is the type of the genus.

#### Family Chrysogorgiidae

**Chrysogorgia anastomosans** Versluys, 1902: 51, figs. 73—77. Spec. inc.; Kükenthal, 1924: 408.

Syntypes: 4 specimens, ZMA COEL. no. 2349, 2350.

Type localities: Siboga Exped., stat. 145, 297.

**Chrysogorgia curvata** Versluys, 1902: 67, figs. 104—108. Spec. inc.; Kükenthal, 1924: 404.

Holotype: ZMA COEL. no. 2352.

Type locality: Siboga Exped., stat. 150.

**Chrysogorgia intermedia** Versluys, 1902: 61, figs. 92—96; Kükenthal, 1924: 398.

Syntypes: 2 specimens, ZMA COEL. no. 2360.

Type locality: Siboga Exped., stat. 297.

**Chrysogorgia lata** Versluys, 1902: 33, figs. 32—36; Kükenthal, 1924: 391.

Holotype: ZMA COEL. no. 2363.

Type locality: Siboga Exped., stat. 119.

**Chrysogorgia mixta** Versluys, 1902: 58, figs. 87—91; Kükenthal, 1924: 398.

Syntypes: 5 specimens, ZMA COEL. no. 2364.

Type locality: Siboga Exped., stat. 122.

**Chrysogorgia octagonos** Versluys, 1902: 65, figs. 99—103; Kükenthal, 1924: 399.

Holotype: ZMA COEL. no. 2366.

Type locality: Siboga Exped., stat. 297.

**Chrysogorgia orientalis** Versluys, 1902: 53, figs. 78—82; Kükenthal, 1924: 397; Thomson, 1927: 22.

Syntypes: 2 specimens, ZMA COEL. no. 2365, 2367.

Type localities: Siboga Exped., stat. 170, 300.

**Chrysogorgia pendula** Versluys, 1902: 73, figs. 114—118; Kükenthal, 1924: 400.

Holotype: ZMA COEL. no. 2369.

Type locality: Siboga Exped., stat. 226 (and not stat. 266, as is erroneously stated in the Siboga Monograph).

- Chrysogorgia pentasticha** Versluys, 1902: 48, figs. 66—72; Kükenthal, 1924: 396; Thomson, 1927: 22.  
Syntypes: 2 specimens, ZMA COEL. no. 2368, 2370.  
Type locality: Siboga Exped., stat. 297.
- Chrysogorgia pusilla** Versluys, 1902: 38, fig. 44; Kükenthal, 1924: 393.  
Holotype: ZMA COEL. no. 2371.  
Type locality: Siboga Exped., stat. 297.
- Chrysogorgia ramosa** Versluys, 1902: 83, figs. 143—146; Kükenthal, 1924: 403.  
Syntypes: 5 specimens, ZMA COEL. no. 2372.  
Type locality: Siboga Exped., stat. 95.
- Chrysogorgia rigida** Versluys, 1902: 81, figs. 136—142. Spec. inc.; Kükenthal, 1924: 407.  
Syntypes: 3 specimens, ZMA COEL. no. 2373.  
Type locality: Siboga Exped., stat. 95.
- Chrysogorgia sibogae** Versluys, 1902: 74, figs. 119—123; Kükenthal, 1924: 401.  
Holotype: ZMA COEL. no. 2374.  
Type locality: Siboga Exped., stat. 251.
- Chrysogorgia tetrasticha** Versluys, 1902: 36, figs. 38—43; Kükenthal, 1924: 392.  
Holotype: ZMA COEL. no. 2375.  
Type locality: Siboga Exped., stat. 251.
- Pleurogorgia plana** Versluys, 1902: 93, figs. 156—162; Kükenthal, 1924: 386; Bayer, 1963: 216.  
Syntypes: 3 specimens, ZMA COEL. no. 3055.  
Type locality: Siboga Exped., stat. 150. The species is the type of the genus by monotypy.

#### Family Primnoidae

Note: The genus name *Callogorgia* Gray, 1858 has been spelled persistently *Calligorgia* or *Caligorgia* by various authors. Versluys (1906) used the latter orthography; it will be understood that this is an unjustified emendation of *Callogorgia*.

- Caligorgia affinis** Versluys, 1906a: 76, pl. 6 (fig. 16), text-figs. 85—90; Kükenthal, 1912: 324; Kükenthal, 1924: 277.  
Holotype: ZMA COEL. no. 2275.  
Type locality: Siboga Exped., stat. 305.
- Caligorgia minuta** Versluys, 1906a: 78, pl. 6 (fig. 17), text-figs. 91—92; Kükenthal, 1912: 324; Kükenthal, 1924: 277.  
Syntypes: 2 specimens, ZMA COEL. no. 2281.  
Type locality: Siboga Exped., stat. 260.
- Caligorgia robusta** Versluys, 1906a: 72, pl. 4 (fig. 12), text-fig. 79; Kükenthal, 1912: 324; Kükenthal, 1924: 273.  
Syntypes: 5 specimens, ZMA COEL. no. 1827, 2285.  
Type locality: Siboga Exped., stat. 297.

**Caligorgia similis** Versluys, 1906a: 79, pl. 6 (fig. 18), text-figs. 93—94; Kükenthal, 1912: 324; Kükenthal, 1924: 277.

Holotype: ZMA COEL. no. 2282.

Type locality: Siboga Exped., stat. 260.

**Caligorgia tuberculata** Versluys, 1906a: 80, pl. 6 (fig. 15), text-figs. 95—96; Kükenthal, 1912: 324; Kükenthal, 1924: 278.

Holotype: ZMA COEL. no. 2286.

Type locality: Siboga Exped., stat. 95.

**Caligorgia weltneri** Versluys, 1906a: 73, pl. 4 (fig. 10), text-figs. 80—82; Kükenthal, 1912: 324; Kükenthal, 1924: 274.

Holotype (2 fragm.): ZMA COEL. no. 2278, 2283.

Type locality: Siboga Exped., stat. 156.

**Plumarella flabellata** Versluys, 1906a: 16, text-figs. 7—12; Kükenthal, 1924: 256.

Syntypes: 2 specimens, ZMA COEL. no. 3080.

Type locality: Japan.

**Thouarella laxa** Versluys, 1906a: 30, pl. 1 (fig. 5), pl. 3 (fig. 8), text-figs. 29—33; Kükenthal & Gorzawsky, 1908: 36; Kükenthal, 1912: 299; Kükenthal, 1924: 293.

Holotype: ZMA COEL. no. 3576.

Type locality: Siboga Exped., stat. 88.

**Calyptrophora kerberti** Versluys, 1906a: 105, text-figs. 134—139; Kükenthal, 1924: 318.

Holotype: ZMA COEL. no. 2294.

Type locality: Japan; coll. Bloemhoff.

**Calyptrophora mariae** Versluys, 1906a: 107, pl. 9 (fig. 25), text-figs. 140—145; Kükenthal, 1924: 318.

Fragment of the holotype: ZMA COEL. no. 7414.

Type locality: Siboga Exped., stat. 297. The holotype proper is missing.

**Stachyodes clavata** Versluys, 1906a: 98, pl. 10 (fig. 26), text-figs. 123—128; Kükenthal, 1912: 327; Kükenthal, 1924: 314. *Narella clavata*; Tixier Durivault, 1966: 432.

Syntypes: 3 specimens, ZMA COEL. no. 3421.

Type locality: Siboga Exped., stat. 251. One specimen is missing.

**Stachyodes dichotoma** Versluys, 1906a: 88, pl. 7 (fig. 20), pl. 8 (fig. 23); Kükenthal, 1912: 327; Kükenthal, 1924: 311. *Narella (dichotoma)*; Bayer, 1963: 222.

Syntypes: 4 specimens, ZMA COEL. no. 3422, 3424.

Type localities: Siboga Exped., stat. 122, 251, 267. The specimen from stat. 251 is missing.

**Stachyodes horrida** Versluys, 1906a: 101, pl. 8 (fig. 24), text-figs. 129—133; Kükenthal, 1912: 327; Kükenthal, 1924: 315. *Narella (horrida)*; Bayer, 1963: 222.

Syntypes: 2 specimens, ZMA COEL. no. 3423.

Type locality: Siboga Exped., stat. 251. One specimen (fragment) is missing.

**Stachyodes obscura** Versluys, 1906a: 90, pl. 7 (fig. 21), text-figs. 103—106; Kükenthal, 1912: 327; Kükenthal, 1924: 313. *Narella (obscura)*; Bayer, 1963: 222.

Syntypes: 2 specimens, ZMA COEL. no. 3425.

Type locality: Siboga Exped., stat. 267.

**Stachyodes orientalis** Versluys, 1906a: 91, text-figs. 107—108; Kükenthal, 1912: 327; Kükenthal, 1924: 313. *Narella (orientalis)*; Bayer, 1963: 222.

Syntypes: 2 specimens, ZMA COEL. no. 3426.

Type locality: Siboga Exped., stat. 297.

**Stachyodes parva** Versluys, 1906a: 96, pl. 6 (fig. 19), text-figs. 118—122; Kükenthal, 1912: 327; Kükenthal, 1924: 314. *Narella (parva)*; Bayer, 1963: 222.

Syntypes: several fragments, ZMA COEL. no. 3427, 3428.

Type localities: Siboga Exped., stat. 177, 226.

#### Family Isididae

**Ceratoisis wrighti** Nutting, 1910e: 12, pl. 2 (figs. 1, 1a), pl. 5 (fig. 3); Kükenthal 1924: 428. *Keratoisis (wrighti)*; Bayer, 1963: 222.

Holotype: ZMA COEL. no. 2326.

Type locality: Siboga Exped., stat. 87.

**Acanella sibogae** Nutting, 1910e: 14, pl. 3 (figs. 2, 2a), pl. 5 (fig. 4); Kükenthal, 1924: 419.

Holotype: ZMA COEL. no. 7348.

Paratypes: 4 specimens, ZMA COEL. no. 2109, 2110, 2111.

Type localities: Siboga Exped., stat. 85, 170, 178 (holotype), 211, 241. The paratype from stat. 211 has been donated to the State University of Iowa.

**Acanella weberi** Nutting, 1910e: 15, pl. 3 (figs. 1, 1a), pl. 5 (fig. 6); Kükenthal, 1924: 422.

Holotype: ZMA COEL. no. 2112.

Type locality: Siboga Exped., stat. 74.

**Mopsea alba** Nutting, 1910e: 18, pl. 4 (figs. 2, 2a), pl. 5 (fig. 4); Kükenthal, 1924: 438.

Holotype: ZMA COEL. no. 2898.

Type locality: Siboga Exped., stat. 156.

**Peltastisis cornuta** Nutting, 1910e: 20, pl. 4 (figs. 4, 4a), pl. 6 (figs. 1, 2, 5); Kükenthal, 1924: 432.

Holotype: ZMA COEL. no. 3012.

Type locality: Siboga Exped., stat. 300.

**Peltastisis uniserialis** Nutting, 1910e: 19, pl. 4 (figs. 3, 3a), pl. 6 (fig. 3); Kükenthal, 1924: 431.

Syntypes: several fragments, ZMA COEL. no. 3013.

Type localities: Siboga Exped., stat. 145, 159. The species is the type of the genus.



**Muricellisis cervicornis** Thomson & Dean, 1931: 211, pl. 7 (fig. 8), pl. 21 (fig. 12).

Holotype: ZMA COEL. no. 2922.

Type locality: Siboga Exped., stat. 139.

**Isis reticulata** Nutting, 1910e: 8, pl. 1 (figs. 2, 2a), pl. 5 (fig. 2); Kükenthal, 1924: 444, Stiasny, 1940d: 250; Stiasny, 1941e: 141; Stiasny, 1951: 45.

Syntypes: several fragments, ZMA COEL. no. 2721.

Type locality: Siboga Exped., stat. 149 (according to the label in the jar) or 273 (according to the Siboga Monograph). One fragment has been donated to the State University of Iowa.

#### Subclass ZOANTHARIA

#### Order ACTINIARIA

#### Family Edwardsiidae

**Edwardsia horstii** Pax, 1924: 94, pl. 9 (fig. 11), text-figs. 1—2.

Syntypes: 43 specimens, ZMA COEL. no. 2531.

Type locality: Spaanse Water, Curaçao; coll. C. J. van der Horst, 4/5-V-1920.

**Isoedwardsia curacaoensis** Pax, 1924: 97, text-figs. 3—5.

Holotype: ZMA COEL. no. 2722.

Type locality: Spaanse Water, Curaçao; coll. C. J. van der Horst, 20-V-1920.

#### Family Actiniidae

**Anemonia antillensis** Pax, 1924: 99, text-fig. 6.

Syntypes: 15 specimens, ZMA COEL. no. 2211.

Type locality: Westpunt, Curaçao; coll. C. J. van der Horst, 19-V-1920.

**Bunodactis curacaoensis** Pax, 1924: 102, text-fig. 9.

Holotype: ZMA COEL. no. 2264.

Type locality: Boca Labadera, Curaçao; coll. C. J. van der Horst, 12-V-1920.

#### Family Sagartiidae

**Phellia pseudoroseni** Pax, 1924: 105, pl. 9 (fig. 7), text-fig. 11.

Syntypes: 2 specimens, ZMA COEL. no. 3056.

Type locality: Caracas Bay, Curaçao; coll. C. J. van der Horst, 18-V-1920.

#### Order ZOANTHINARIA

#### Family Zoanthidae

**Isaurus duchassaingi** Duerden, 1898 var. *microtuberculata* Pax, 1924: 111, text-figs. 15—17.

Syntypes: 69 specimens, ZMA COEL. no. 2707.

Type locality: Caracas Bay, Curaçao; coll. C. J. van der Horst, 1/6-V-1920.

**Isaurus gelatinosus** Pax, 1924: 116, text-figs. 18—21.

Syntypes: 2 specimens, ZMA COEL. no. 2708.

Type locality: Caracas Bay, Curaçao; coll. C. J. van der Horst, V-1920.

**Palythoa caracasiana** Pax, 1924: 110, pl. 9 (fig. 3), text-fig. 13.

Syntypes: 4 specimens, ZMA COEL. no. 2990.

Type locality: Caracas Bay, Curaçao; coll. C. J. van der Horst, V-1920 (25-V-1920).

**Palythoa horsti** Pax, 1924: 111, text-fig. 14.

Syntypes: 2 specimens, ZMA COEL. no. 2993.

Type locality: Westpunt, Curaçao, coll. C. J. van der Horst, 14-V-1920.

#### Order SCLERACTINIA

##### Suborder ASTROCOENIINA

##### Family Thamnasteriidae

**Psammocora explanulata** Van der Horst, 1922a: 426, pl. 32 (figs. 7—8); Wells, 1954: 410.

Two of seven syntype specimens, ZMA COEL. no. 1071, 1072.

Type localities: Providence Island (50—70 fthms), Amirante Island (over 20 fthms); coll. Percy Sladen Trust Exped., 1905.

The remaining type specimens are in the British Museum.

**Psammocora nierstrassi** Van der Horst, 1921: 34, pl. 2 (figs. 3—4); Wells, 1954: 410.

Holotype: ZMA COEL. no. 1078.

Type locality: Siboga Exped., stat. 313.

##### Suborder FUNGIINA

##### Family Agariciidae

**Agaricia ponderosa** Gardiner, 1905: 937, pl. 89 (figs. 5—6); van der Horst, 1922a: 418.

One of twelve syntype specimens, ZMA COEL. no. 136.

Type locality: Maldives.

The remaining type specimens are at the Cambridge University.

**Leptoseris tenuis** Van der Horst, 1921: 31, pl. 5 (figs. 9—10); van der Horst, 1922a: 422; Yabe & Sugiyama, 1941: 74.

Holotype: ZMA COEL. no. 695.

Type locality: Siboga Exped., stat. 315.

##### Family Siderastreidae

**Coscinaraea ostraeiformis** Van der Horst, 1922a: 424, pl. 32 (figs. 5—6), text-figs. 1—2; Wells, 1954: 446.

One of three syntype specimens, ZMA COEL. no 210.

Type locality: Providence Island; coll. Percy Sladen Trust Exped., 1905.

The remaining type specimens are in the British Museum (Nat. Hist.).

Family Fungiidae

**Fungia adrianae** Van der Horst, 1921: 8, pl. 2 (figs. 5—6).

Holotype: ZMA COEL. no. 340.

Type locality: unknown, probably Indonesian Archipelago.

**Fungia marginata** Boschma, 1923: 13, pl. 9 (figs. 8, 8a), pl. 10 (figs. 24—26).

[Originally identified as *Fungia patella* (Ellis & Solander, 1786) by van der Horst, 1921: 5 (partim)].

Syntypes: 2 specimens, ZMA COEL. no. 604, 1723.

Type locality: Siboga Exped., stat. 315.

**Fungia patelliformis** Boschma, 1923: 8, pl. 9 (figs. 9, 11, 13—16a); Crossland, 1952: 154; Boschma, 1925: 192. *Cycloseris patelliformis*; Wells, 1954: 447.

Syntypes: numerous specimens, ZMA COEL. no. 605, 606, 724, 1236, 5507, 5508, 5509, 5521.

Type localities: Siboga Exped., stat. 33, 43, 99, 104, 144, 153, 164, 209, 240, 311, 315.

**Fungia sibogae** Van der Horst, 1921: 7, pl. 1 (figs. 3—4).

Holotype: ZMA COEL. no. 485.

Type locality: Siboga Exped., station unknown.

**Fungia weberi** Van der Horst, 1921: 10, pl. 1 (figs. 5—6). *Herpolitha weberi*; Boschma, 1925: 266; Yabe & Sugiyama, 1941: 80.

Syntypes: 2 specimens, ZMA COEL. no. 6894, 6895.

Type locality: Siboga Exped., stat. 315.

**Halomitra louwinae** Van der Horst, 1921: 21, pl. 3 (figs. 1—2). *H. philippinensis*; Boschma, 1925: 237; Thiel, 1932: 84.

Holotype: ZMA COEL. no. 518.

Type locality: Siboga Exped., stat. 240.

**Doederleinia sluiteri** Van der Horst, 1921: 19, pl. 3 (figs. 3—4). *Halomitra robusta*; Boschma, 1925: 79; Thiel, 1932: 85. *Parahalomitra (sluiteri)*; Wells, 1963: 389.

Holotype: ZMA COEL. no. 275.

Type locality: Siboga Exped., stat. 240.

**Podabacia involuta** Van der Horst, 1921: 26, pl. 4 (fig. 4), pl. 5 (figs. 4—5), pl. 6 (fig. 3).

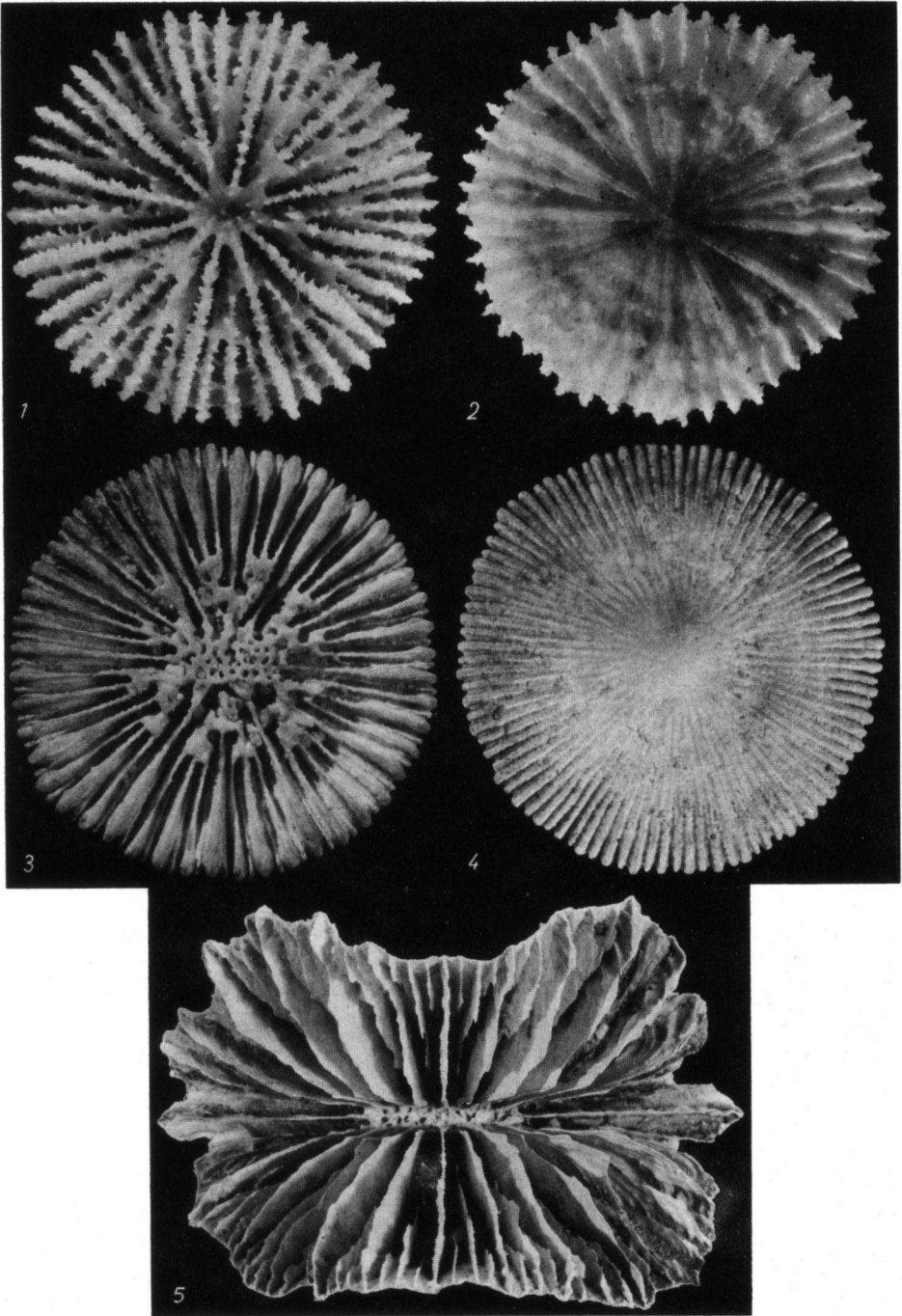
Holotype: ZMA COEL. no. 985.

Type locality: Singapore.

**Podabacia lobata** Van der Horst, 1921: 27, pl. 4 (fig. 5), pl. 6 (fig. 4). *P. elegans* subsp. *lobata*; Yabe & Sugiyama, 1936: 64. *Lithophyllon lobata*; Wells, 1966: 236.

Holotype: ZMA COEL. no. 986.

Type locality: Japan.



Pl. II. 1—2. *Bathyactis sibogae* Alcock, 1902, one of the syntypes, ZMA COEL. no. 889 ( $\times 4$ ), 3—4. *Deltocyathus magnificus* Moseley, 1876 var. *suluensis* Alcock, 1902, one of the syntypes, ZMA COEL. no. 5440 ( $\times 4$ ), 5. *Flabellum laciniatum* Philippi, 1841 var. *messum* Alcock, 1902, one of the syntypes, ZMA COEL. no. 1214 ( $\times 2$ ).

**Bathyactis sibogae** Alcock, 1902: 38. *Fungiacyathus (sibogae)*; Wells, 1963: F 390.

Syntypes: 4 specimens, ZMA COEL. no. 889, 1173, 5098. (Pl. II figs. 1—2).

Type localities: Siboga Exped., stat. 95, 159, 175, 297. The specimen from stat. 159 is missing.

**Bathyactis palifera** Alcock, 1902: 38, pl. 5 (figs. 34, 34a). *Fungiacyathus (palifera)*; Wells, 1963: 390.

Syntypes: 5 specimens, ZMA COEL. no. 1171.

Type localities: Siboga Exped., stat. 98, 153. The specimens from stat. 98 are missing.

#### Family Micrabaciidae

**Stephanophyllia fungulus** Alcock, 1902: 40, pl. 5 (figs. 35, 35a-b).

Syntypes: 5 specimens, ZMA COEL. no. 1321.

Type locality: Siboga Exped., stat. 100.

**Stephanophyllia neglecta** Boschma, 1923: 16, pl. 10 (figs. 28—30a).

Syntypes: 3 specimens, ZMA COEL. no. 1102.

Type locality: Siboga Exped., stat. 260.

#### Suborder FAVIINA

##### Family Faviidae

**Caulastrea curvata** Wijsman-Best, 1972: 56, pl. 14 (figs. 3—4).

Holotype: ZMA COEL. no. 5988.

Paratypes: 3 specimens, ZMA COEL. no. 5986, 5987, 5989.

Type locality: Southern New Caledonia; coll. M. Wijsman-Best, VI/IX-1968.

**Favites rufa** Wijsman-Best, 1972: 30, pl. 6 (figs. 1—2).

Holotype: ZMA COEL. no. 5843.

Paratypes: ZMA COEL. no. 5842, 5844, 5845, 5846, 5847, 5848, 5849.

Type locality: Near Nouméa, New Caledonia; coll. M. Wijsman-Best, VI/IX-1968.

**Blastomussa wellsii** Wijsman-Best, 1973: 154, figs. 1—2.

Holotype: ZMA COEL. no. 6905.

Paratypes: ZMA COEL. no. 6906, 6907, 6908.

Type locality: Near Nouméa, New Caledonia; coll. M. Wijsman-Best, VI/IX-1968.

##### Family Merulinidae

**Merulina vaughani** Van der Horst, 1921: 39, pl. 5 (fig. 1), pl. 6 (fig. 1); Nemenzo, 1958: 126.

Holotype: ZMA COEL. no. 775.

Type locality: Siboga Exped., stat. 213.

Family Anthemiphylliidae

**Discotrochus dentatus** Alcock, 1902: 27, pl. 4 (figs. 26, 26a). *Anthemiphyllia dentata*; Eguchi, 1968: 29.

Syntypes: 7 specimens, ZMA COEL. no. 716, 717, 718.

Type localities: Siboga Exped., stat. 95, 98, 100.

Suborder CARYOPHYLLIINA

Family Caryophylliidae

**Caryophyllia ambrosia** Alcock, 1898: 12, pl. 1 (figs. 1, 1a).

Two of a vast number of syntypes (over 200), ZMA COEL. no. 1179.

Type locality: off Elicapeni Bank, Laccadive Sea, 1000 fthms; coll. Marine Zool. Survey of India; don. Indian Museum, Calcutta.

**Caryophyllia cultrifera** Alcock, 1902: 7, pl. 1 (figs. 1, 1a).

Holotype: ZMA COEL. no. 1180.

Type locality: Siboga Exped., stat. 101.

**Caryophyllia panda** Alcock, 1902: 9, pl. 1 (figs. 3, 3a).

Holotype: ZMA COEL. no. 573.

Type locality: Siboga Exped., stat. 117.

**Caryophyllia paradoxus** Alcock, 1898: 13, pl. 1 (figs. 2, 2a-c).

Two of a vast number of syntype specimens, ZMA COEL. no. 1181.

Type locality: off Travancore, 430 fthms; coll. Marine Zool. Survey of India; don. Indian Museum, Calcutta.

**Caryophyllia quadragenaria** Alcock, 1902: 10, pl. 1 (figs. 4, 4a).

Syntypes: 3 specimens, ZMA COEL. no. 5529, 5534.

Type localities: Siboga Exped., stat. 90, 251, 289. The specimen from stat. 289 is missing.

**Caryophyllia scobinosa** Alcock, 1902: 8, pl. 1 (figs. 2, 2a); Utinomi, 1965: 254.

Syntypes: 6 specimens, ZMA COEL. no. 574, 575.

Type localities: Siboga Exped., stat. 45, 102. One specimen from stat. 102 is missing.

**Cyathoceras tydemani** Alcock, 1902: 14, pl. 1 (figs. 7, 7a).

Syntypes: 7 specimens, ZMA COEL. no. 579, 712, 1187.

Type localities: Siboga Exped., stat. 95, 105.

**Trochocyathus caryophylloides** Alcock, 1902: 13, pl. 2 (figs. 10, 10a).

Syntypes: 6 specimens, ZMA COEL. no. 1324, 1325, 5436, 5437.

Type localities: Siboga Exped., stat. 96, 251, 253. One specimen from stat. 96 is missing.

**Trochocyathus pileus** Alcock, 1902: 15, pl. 2 (figs. 11, 11a).

Syntypes: 4 specimens, ZMA COEL. no. 1326.

Type locality: Siboga Exped., stat. 95. One specimen is missing.

**Trochocyathus rhombocolumna** Alcock, 1902: 16, pl. 2 (fig. 12).

Holotype: ZMA COEL. no. 1327.

Type locality: Siboga Exped., stat. 95.

**Trochocyathus virgatus** Alcock, 1902: 16, pl. 2 (fig. 13).

Syntypes: 2 specimens, ZMA COEL. no. 1323, 1328.

Type localities: Siboga Exped., stat. 96, 105.

**Deltocyathus fragilis** Alcock, 1902: 21, pl. 2 (figs. 15, 15a).

Syntypes: 6 specimens, ZMA COEL. no. 1188.

Type locality: Siboga Exped., stat. 45.

**Deltocyathus lens** Alcock, 1902: 19, pl. 2 (figs. 16, 16a). *Notocyathus* (*Paradeltocyathus*) *orientalis*; Eguchi, 1968: 40.

Syntypes: 9 specimens, ZMA COEL. no. 1191, 5444, 5445.

Type localities: Siboga Exped., stat. 59, 95, 256, 275. Two specimens from stat. 59 are missing.

**Deltocyathus magnificus** Moseley, 1876 var. *suluensis* Alcock, 1902: 20.

Syntypes: 6 specimens, ZMA COEL. no. 5440, 5442. (Pl. II figs. 3—4).

Type localities: Siboga Exped., stat. 95, 100. Two specimens are missing, one of which has been donated to the Indian Museum, Calcutta.

**Paracyathus pruinosus** Alcock, 1902: 18, pl. 3 (figs. 17, 17a); van der Horst, 1931: 9.

Syntypes: 2 specimens, ZMA COEL. no. 1089, 1307.

Type locality: Siboga Exped., stat. 96.

**Heterocyathus woodmasoni** Alcock, 1893: 141, pl. 5 (figs. 4, 4a).

Syntypes: 3 specimens of an unknown number of syntype specimens, ZMA COEL. no. 1271.

Type locality: Andaman Sea, coll. J. Wood-Mason; don. Indian Museum, Calcutta.

**Polycyathus banyulensis** Best, 1968: 74, figs. 2—5.

Holotype: ZMA COEL. no. 5106.

Paratype: ZMA COEL. no. 5107.

Type locality: Cap Béar, near Banyuls, Pyr.-Or., France; coll. M. Best, 26-VII-1966, 32 m.

**Polycyathus mediterraneus** Best, 1968: 78, figs. 6—7.

Holotype: ZMA COEL. no. 5108.

Paratypes: 3 specimens, ZMA COEL. no. 5109, 5110, 5111

Type localities: Cap Rédéris, Cap l'Abeille, near Banyuls, Pyr.-Or., France; Cap Creus, Spain; coll. M. Best, VI/VII-1966.

**Polycyathus fulvus** Wijsman-Best, 1970: 79, figs. 1—4.

Holotype: ZMA COEL. no. 5544.

Paratypes: 3 specimens, ZMA COEL. no. 5545, 5546, 5547.

Type locality: South of Nouméa, New Caledonia; coll. M. Wijsman-Best, 7-IX-1968, 30—50 cm.

**Ceratotrochus venustus** Alcock, 1902: 10, pl. 1 (figs. 5, 5a).

Holotype: ZMA COEL. no. 1184.

Type locality: Siboga Exped., stat. 256.

**Ceratotrochus funiculumna** Alcock, 1902: 11, pl. 1 (figs. 6, 6a); Eguchi, 1968: 38.

Syntypes: 3 specimens, ZMA COEL. no. 709, 1183.

Type localities: Siboga Exped., stat. 95, 100.

**Ceratotrochus hospes** Alcock, 1902: 12, pl. 2 (figs. 8, 8a). *Phloeocyathus (hospes)*; Wells, 1963: 424.

Holotype: ZMA COEL. no. 1308.

Type locality: Siboga Exped., stat. 150.

**Lochmaetrochus oculus** Alcock, 1902: 13, pl. 2 (figs. 9, 9a); Wells, 1963: 424.

Syntypes: 3 specimens and 5 fragments, ZMA COEL. no. 700, 814.

Type localities: Siboga Exped., stat. 259, 159. The species is the type of the genus.

**Sabinotrochus bipatella** Alcock, 1902: 27, pl. 4 (figs. 25, 25a). *Stephanocyathus (bipatella)*; Wells, 1963: 424.

Holotype: ZMA COEL. no. 1314.

Type locality: Siboga Exped., stat. 52.

**Sabinotrochus flatiliseptis** Alcock, 1902: 26, pl. 4 (figs. 24, 24a). *Stephanocyathus (flatiliseptis)*; Wells, 1963: 424.

Holotype: ZMA COEL. no. 1315.

Type locality: Siboga Exped., stat. 211.

**Stephanotrochus weberianus** Alcock, 1902: 25, pl. 3 (figs. 22, 22a). *Stephanocyathus (weberianus)*; Wells, 1963: 424.

Holotype: ZMA COEL. no. 1322.

Type locality: Siboga Exped., stat. 284.

**Odontocyathus sexradiis** Alcock, 1902: 23, pl. 3 (figs. 20, 20a-b). *O. spiniger*; Eguchi, 1968: 39.

Holotype: ZMA COEL. no. 1304.

Type locality: Siboga Exped., stat. 156.

**Odontocyathus stella** Alcock, 1902: 24, pl. 3 (figs. 21, 21a-b). *O. spiniger*; Eguchi, 1968: 39.

Holotype: ZMA COEL. no. 1305.

Type locality: Siboga Exped., stat. 159.

Note: The genus *Odontocyathus* Moseley, 1881 is considered a subgenus of *Stephanocyathus* Moseley, 1881 by Wells (1963: 424).

**Citharocyathus conicus** Alcock, 1902: 22, pl. 3 (figs. 19, 19a). *Notocyathus (conicus)*; Wells, 1963: 425.

Syntypes: 2 specimens, ZMA COEL. no. 1185.

Type locality: Siboga Exped., stat. 95.

**Citharocyathus venustus** Alcock, 1902: 22, pl. 3 (figs. 18, 18a). *Notocyathus (venustus)*; Wells, 1963: 425.

Syntypes: 4 specimens, ZMA COEL. no. 1244.

Type locality: Siboga Exped., stat. 59. One specimen is missing.

**Desmophyllum alabastrum** Alcock, 1902: 28, pl. 4 (figs. 27, 27a). *Flabellum sibogae* (nom. nov.) Gardiner, 1905: 98.

Syntypes: 2 specimens, ZMA COEL. no. 1252.

Type localities: Siboga Exped., stat. 95, 105. The figured type specimen from stat. 105 is missing.



**Desmophyllum vitreum** Alcock, 1898: 20, pl. 2 (figs. 2, 2a-b); *Javania vitrea*; Zibrowius, 1974: 16.

Syntypes: 2 specimens of the type series of hundreds of specimens, ZMA COEL. no. 1198.

Type locality: Off Travançore; coll. Zool. Survey of India, 430 m; don. Indian Museum, Calcutta.

**Solenosmilia jeffreyi** Alcock, 1898: 27, pl. 3 (figs. 3, 3a-b); Wells, 1963: 429.

Syntypes: 2 specimens of the "immense" syntype series, ZMA COEL. no. 5502.

Type locality: Travançore; coll. Zool. Survey of India, 430 m; don. Indian Museum, Calcutta.

**Pourtalosmilia dumosa** Alcock, 1902: 36, pl. 5 (figs. 33, 33a). *Goniocorella dumosa*; Wells, 1963: 429; Squires & Keyes, 1967: 25; Eguchi, 1968: C 43.

Syntypes: several broken fragments, ZMA COEL. no. 1097.

Type localities: Siboga Exped., stat. 156, 259. One fragment was kept by Alcock and is presumably in the Indian Museum.

#### Family Flabellidae

**Flabellum dens** Alcock, 1902: 32, pl. 4 (fig. 30). *F. transversale*; Eguchi, 1968: 46.

Syntypes: 9 specimens, ZMA COEL. no. 1209.

Type locality: Siboga Exped., stat. 95.

**Flabellum laciniatum** Philippi, 1841 var. *messum* Alcock, 1902: 31.

Syntypes: 5 specimens, ZMA COEL. no. 1214, 1401, 1867. (Pl. II fig. 5).

Type localities: Siboga Exped., stat. 45, 284, 314.

**Flabellum lamellulosum** Alcock, 1902: 30, pl. 4 (figs. 28, 28a-b).

Holotype: ZMA COEL. no. 1215.

Type locality: Siboga Exped., stat. 251

**Flabellum suluense** Alcock, 1902: 31, pl. 4 (figs. 29, 29a-b).

Holotype: ZMA COEL. no. 1231.

Type locality: Siboga Exped., stat. 100.

**Placotrochides dentiformis** Alcock, 1902: 33, pl. 4 (figs. 31, 31a). *Flabellum (dentiformis)*; Wells, 1963: 432.

Holotype: ZMA COEL. no. 1094.

Type locality: Siboga Exped., stat. 212.

**Placotrochides scaphula** Alcock, 1902: 34, pl. 4 (figs. 32, 32a). *Flabellum (scaphula)*; Wells, 1963: 432.

Holotype: ZMA COEL. no. 1094.

Type locality: Siboga Exped., stat. 212.

Family Guynidae

**Pyrophyllia inflata** Hickson, 1910: 1, figs. 1—4. *Guynia inflata*; Wells, 1963: 432.

Syntypes: 3 specimens out of a type series of 40, ZMA COEL. no. 1098.

Type locality: Gulf of Oman, 156 fthms; don. S. J. Hickson. The remaining specimens are in the British Museum (Natural History). The species is the type of the genus *Pyrophyllia* Hickson, 1910.

Suborder DENDROPHYLLIINA

Family Dendrophylliidae

**Balanophyllia fistula** Alcock, 1902: 42, pl. 5 (figs. 36, 36a); van der Horst, 1922b: 59. *Dendrophyllia fistula*; Wells, 1954: 472; Utinomi, 1965: 257; Eguchi, 1968: 62.

Syntypes: 3 specimens, ZMA COEL. no. 563, 564.

Type localities: Siboga Exped., stat. 105, 107.

**Balanophyllia nouhuysi** Van der Horst, 1922b: 59, pl. 8 (fig. 16).

Holotype: ZMA COEL. no. 5460.

Type locality: E. of Segli, Sumatra; coll. van Nouhuys, on board of s.s. "Telegraaf".

**Balanophyllia ponderosa** Van der Horst, 1926: 49, pl. 3 (figs. 6—7).

Paratype: ZMA COEL. no. 1248.

Type locality: Amirante Island; coll. Percy Sladen Trust Exped., 9-X-1905.

The holotype and the remaining paratype are in the British Museum.

**Balanophyllia tenuis** Van der Horst, 1922b: 63, pl. 7 (fig. 8).

Holotype: ZMA COEL. no. 5453.

Type locality: Siboga Exped., stat. 96.

**Rhizopsammia minuta** Van der Horst, 1922b: 65, pl. 7 (figs. 9—10); Wells, 1954: 473.

Holotype: ZMA COEL. no. 6896.

Type locality: Siboga Exped., stat. 279.

**Rhizopsammia nuda** Van der Horst, 1926: 50, pl. 2 (figs. 10—12).

Syntype: One of a type series of 5 specimens, ZMA COEL. no. 5525.

Type locality: Singapore; coll. Bedford, 6-XI-1899; don. J. S. Gardiner.

The remaining type material is in the British Museum.

**Rhizopsammia verrilli** Van der Horst, 1922b: 64, pl. 8 (figs. 1—2).

Syntypes: 4 specimens, ZMA COEL. no. 1446, 5431 (figured specimen), 5478.

Type localities: Siboga Exped., stat. 220, 282.

**Dendrophyllia arbuscula** Van der Horst, 1922b: 53, pl. 8 (fig. 6); Crossland, 1952: 170; Eguchi, 1968: 55.

Syntypes: 3 specimens, ZMA COEL. no. 1254, 5477 (figured type specimen).

Type localities: Siboga Exped., stat. 260, 277. One specimen has been donated to the Indian Museum.

**Dendrophyllia boschmai** Van der Horst, 1926: 44 (new name for *D. japonica* van der Horst (1922b: 51, pl. 7, fig. 6), which was preoccupied by *D. japonica* Rehberg, 1892); Eguchi, 1968: 56.

Holotype: ZMA COEL. no. 5451.

Type locality: Japan.

**Dendrophyllia cladonia** Van der Horst, 1927: 3, pl. 1 (fig. 5), pl. 2 (figs. 6—7).

Syntypes: 3 specimens from a large type series of about 75 specimens, ZMA COEL. no. 1193.

Type localities: Durnford Point and Port Shepstone, South Africa; coll. Gilchrist, don. J. S. Gardiner. 55 syntype specimens are in the British Museum.

**Dendrophyllia elegans** Van der Horst, 1922b: 57, pl. 8 (figs. 9—10).

Holotype: ZMA COEL. no. 6897.

Type locality: Siboga Exped., stat. 282.

**Dendrophyllia klunzingeri** Van der Horst, 1926: 46 (Identified as *D. coccinea* (Ehrenberg, 1834) by van der Horst, 1922b: 55, pl. 8 (fig. 21)).

Syntype: One of two specimens, ZMA COEL. no. 230.

Type locality: Japan. The other syntype is in the Rijksmuseum van Natuurlijke Historie at Leiden.

**Dendrophyllia florulenta** Van der Horst, 1922b: 54, pl. 7 (fig. 5). *D. florentula*; Wells, 1954: 473. *D. fluolenta*; Eguchi, 1968: C 58 (both erroneous spellings).

Syntypes: 2 specimens, ZMA COEL. no. 1195, 1256.

Type localities: Siboga Exped., stat. 51, 305.

**Dendrophyllia japonica** Rehberg, 1892: 28, pl. 4 (fig. 4); Gardiner, 1929: 127; van der Horst, 1926: 44. (Non: *D. japonica* Van der Horst, 1922b: 51).

Paratypes: 2 specimens, ZMA COEL. no. 1241.

Type locality: Japan; coll. Hilgendorf, 29-III-1875. The specimens were obtained by exchange of material with the Berlin Museum.

**Dendrophyllia japonica** Van der Horst, 1922, see *D. boschmai*.

**Dendrophyllia sibogae** Van der Horst, 1922b: 56, pl. 8 (figs. 19—20).

Syntypes: 3 specimens, ZMA COEL. no. 590, 5473.

Type localities: Siboga Exped., stat. 282, 303.

**Dendrophyllia amphelioides** Alcock, 1902: 43, pl. 5 (figs. 37, 37a). *Enallopsammia amphelioides*; Zibrowius, 1973: 45.

Syntypes: some fragments, ZMA COEL. no. 582, 714, 7457.

Type localities: Siboga Exped., stat. 156, 177. One fragment has been donated to the Indian Museum.

**Dendrophyllia pusilla** Alcock, 1902: 44, pl. 5 (figs. 38, 38a). *Enallopsammia pusilla*; Zibrowius, 1973: 48.

Syntypes: 2 specimens, ZMA COEL. no. 589, 1196.

Type locality: Siboga Exped., stat. 95.

**Enallopsammia marenzelleri** Zibrowius, 1973: 49, pl. 1 (figs. 1—7), pl. 2 (figs. 8—11). (Originally identified as *Dendrophyllia profunda* Pourtalès, 1868, by Alcock, 1902: 69).

Holotype: ZMA COEL. no. 6902.  
Paratypes: 2 specimens, ZMA COEL. no. 588.  
Type locality: Siboga Exped., stat. 266.

#### MISSING TYPES

List of nominal types missing from the collections of the Zoological Museum of Amsterdam ("duplicate" specimens and "schizotypes" excluded):

#### CTENOPHORA

**Hormiphora sibogae** Moser, 1903: 13.  
6 syntype specimens from Siboga Exped., stat. 109, 136, 144, 157, 252.

#### ANTHOZOA

##### GORGONACEA

**Anthomuricea sanguinea** Nutting, 1910a: 24.  
Holotype + fragments from Siboga Exped., stat. 47, 144.  
**Echinomuricea collaris** Nutting, 1910a: 58.  
Holotype from Siboga Exped., stat. 280.  
**Echinomuricea cylindrica** Nutting, 1910a: 60.  
Holotype from Siboga Exped., stat. 266.  
**Acamptogorgia spatulata** Nutting, 1910a: 68 (= *Perisceles spathulata*; Kükenthal, 1924).  
Syntypes (at least three specimens) from Siboga Exped., stat. 117, 166, 289.  
**Suberogorgia muriceoides** Stiasny, 1937b: 111 (= *Mopsella rubeola*; Stiasny, 1941d).  
Syntypes (3 specimens + fragments) from Siboga Exped., stat. 282.  
**Muriceides javensis** Nutting, 1910a: 27.  
Holotype from Siboga Exped., stat. 7. (A specimen labeled "*Muriceides javensis* type" in the ZMA collection is obviously not identical with the missing holotype, as pictured by Nutting (pl. 4). Moreover this specimen (probably *Melitodes ochracea*) is from stat. 305).  
**Villogorgia serrata** Nutting, 1910a: 73.  
Holotype from Siboga Exped., stat. 274.  
**Eunicea hicksoni** Stiasny, 1935b: 115. (Originally identified as *E. mutica* (in part) by Gordon, 1924).  
Holotype from Curaçao; coll. C. J. van der Horst, 1920.  
**Mopsea flava** Nutting, 1910d: 17.  
Holotype from Siboga Exped., stat. 117.  
**Thouarella tydemani** Versluys, 1906: 32.  
Several syntypes from Siboga Exped., stat. 297.

**Caligorgia pennacea** Versluys, 1906: 66.

Holotype from Siboga Exped., stat. 251.

**Caligorgia joubini** Versluys, 1906: 67.

Holotype from Siboga Exped., stat. 297.

**Calyptrophora mariae** Versluys, 1906: 107.

Holotype from Siboga Exped., stat. 297 (a fragment of the holotype is present, ZMA COEL. no. 7414).

#### PENNATULACEA

**Halisceptrum gustavianum** Herklots, 1863 var. **parvifolium** Kölliker, 1869: 512.  
4 syntype specimens.

#### SCLERACTINIA

**Stephanotrochus sibogae** Alcock, 1902: 25.

Holotype from Siboga Exped., stat. 88.

**Leptopsammia conica** Van der Horst, 1922b: 68.

Holotype from Siboga Exped., stat. 311.

**Leptopsammia crassa** Van der Horst, 1922b: 69.

Holotype from Siboga Exped., stat. 258.

**Leptopsammia poculum** Van der Horst, 1922b: 69.

Holotype from Siboga Exped., stat. 260.

#### ANTIPATHARIA

**Aphanipathes sibogae** Van Pesch, 1914: 85.

The holotype from Siboga Exped., stat. 80 is missing, but a fragment of it has been donated at one time to the Rijksmuseum van Natuurlijke Historie at Leiden, ("schizotype"); it is incorporated there under reg. no. RMNH COEL. 4726.

**Cirripathes ramosa** Van Pesch, 1910: 40 (= *Hillopathes ramosa*; Van Pesch, 1914: 175).

2 syntypes from Siboga Exped., stat. 313, type of the genus *Hillopathes* Van Pesch, 1914.

#### CERIANTHARIA

**Cerianthus taedus** Mc Murrich, 1910: 30.

Holotype from Siboga Exped., stat. 85. There are four microscopic slides of this species.

**Apiactis obconica** Mc Murrich, 1910: 31

6 syntypes from Siboga Exped., stat. 136, 165, 172, 184. There are seven microscopic slides of this species.

**Peponactis pilula** Mc Murrich, 1910: 33.

Numerous syntypes from Siboga Exped., stat. 37, 96, 148, 186.

**Pachycerianthus monostichus** Mc Murrich, 1910: 38.

2 syntypes from Siboga Exped., stat. 181.

**Arachnactis sibogae** Mc Murrich, 1910: 41.

5 syntypes from Siboga Exped., stat. 96, 205, 282. There are seven microscopic slides of this species.

**Dactylactis malayensis** Mc Murrich, 1910: 42.

Numerous syntypes from Siboga Exped., stat. 172, 185. There are nine microscopic slides of this species.

Note: Enquires made at the Royal Ontario Museum at Toronto (Dr. I. R. Ball and Dr. W. B. Scott) resulted in the discovery of numerous microscopic slides, containing sections from the Siboga Ceriantharia and Actiniaria.

The actual specimens have not been unearthed so far and the chances of discovery of them are extremely slim, as Dr. Ball was kind enough to go to great lengths in an attempt to find them. The sections of the Ceriantharia-types can be considered "schizotypes" although their value for typology is probably small. The Actiniaria of the Siboga Expedition should have been subject of a second monograph by Mc Murrich, but unfortunately this has never been published and the material must be considered lost.

#### SCHIZOTYPES

List of fragments of type specimens ("schizotypes") incorporated in the collections of the Zoological Museum of Amsterdam.

Particularly with colonial species fragments of type specimens are valuable, as such a fragment may possess a large part of the diagnostic characters of the species. Fragments become extremely important, if the type specimen(s) is destroyed or lost. For these reasons this list is given.

#### HYDROZOA

**Thecocarpus leopoldi** Leloup, 1930: 11.

One fragment, ZMA COEL. no. 3810.

Type locality: Sorong door (Indonesia); coll. S.A.R. 1e Duc de Brabant; don. Brussels Museum.

**Aglaophenia brachiatus** Lamarck, 1816: 325 (= *Thecocarpus brachiatus*).

One fragment, ZMA COEL. no. 5222. Don. Billard; ex Paris Museum.

#### ANTHOZOA

**Plumarella delicatissima** Wright & Studer, 1889: 74.

ZMA COEL. no. 3085.

Type locality: Challenger Exped., stat. 307; don. British Museum (Nat. Hist.).

- Plumarella penna** Lamarck, 1816: 323.  
ZMA COEL. no. 3085; ex Paris Museum.
- Calyptrophora japonica** Wright & Studer, 1889: 50.  
ZMA COEL. no. 3085.  
Type locality: Challenger Exped., stat. 174c.
- Calyptrophora josephinae** Lindstrøm, 1877: 6.  
Two fragments, ZMA COEL. no. 3085, 7415; ex Stockholm Museum.
- Thouarella affinis** Wright & Studer, 1889: 66.  
ZMA COEL. no. 3085.  
Type locality: Challenger Exped., stat. 135d; don. British Museum.
- Thouarella brucei** Thomson & Ritchie, 1906: 852.  
ZMA COEL. no. 3574.  
Type locality: Burwood Bank, off Gough Island; coll. Scottish Antarctic Expedition; don. British Museum.
- Thouarella hilgendorfi** Studer, 1878: 648.  
ZMA COEL. no. 3085.  
Type locality: Japan; coll. Hilgendorf; don. Berlin Museum.
- Thouarella koellikeri** Wright & Studer, 1889: 64.  
Two fragments, ZMA COEL. no. 3085.  
Type localities: Challenger Exped., stat. 308, 310; don. British Museum.
- Thouarella moseleyi** Wright & Studer, 1889: 61.  
ZMA COEL. no. 3085.  
Type locality: Challenger Exped., stat. 171; don. British Museum.
- Primnoa plumatilis** Milne-Edwards, 1857: 141.  
ZMA COEL. no. 3085. Ex Paris Museum.
- Stachyodes regularis** Wright & Studer, 1889: 87.  
ZMA COEL. no. 3085.  
Type locality: Challenger Exped., stat. 171; don. British Museum.
- Primnoella biserialis** Wright & Studer, 1889: 87.  
ZMA COEL. no. 3085.  
Type locality: Challenger Exped., stat. 308; don. British Museum.
- Primnoella grandisquamis** Wright & Studer, 1889: 86.  
ZMA COEL. no. 3085.  
Type locality: Challenger Exped., stat. 163A; don. British Museum.
- Primnoella murrayi** Wright & Studer, 1889: 85.  
ZMA COEL. no. 3085.  
Type locality: Challenger Exped., stat. 320; don. British Museum.
- Primnoa flabellum** Ehrenberg, 1834: 134 (= *Callogorgia flabellum*).  
ZMA COEL. no. 2279. Ex Berlin Museum.
- Caligorgia gracilis** Milne-Edwards & Haime, 1857: 142.  
ZMA COEL. no. 3085. Ex Paris Museum.
- Caligorgia sertosa** Wright & Studer, 1889: 77.  
ZMA COEL. no. 3085.  
Type locality: Challenger Exped., stat. 192; don. British Museum.

- Caligorgia ventilabrum** Studer, 1878: 647.  
ZMA COEL. no. 3085. Ex Berlin Museum.
- Primnoides sertularoides** Wright & Studer, 1889: 90.  
ZMA COEL. no. 3085.  
Type locality: Challenger Exped., stat. 145A; don. British Museum.
- Stenella doederleini** Wright & Studer, 1889: 58 (= *Candidella doederleini*).  
ZMA COEL. no. 3085.  
Type locality: Challenger Exped., stat. 237; don. British Museum.
- Stenella gigantea** Wright & Studer, 1889: 57 (= *Candidella gigantea*).  
ZMA COEL. no. 3085.  
Type locality: Challenger Exped., stat. 174; don. British Museum.
- Stenella imbricata** Johnson, 1862: 245 (= *Candidella imbricata*).  
ZMA COEL. no. 3085. Ex British Museum.
- Stenella johnsoni** Wright & Studer, 1889: 57 (= *Candidella johnsoni*).  
ZMA COEL. no. 3085.  
Type locality: Challenger Exped., stat. 344; don. British Museum.
- Stenella spinosa** Wright & Studer, 1889: 58 (= *Candidella spinosa*).  
ZMA COEL. no. 3085.  
Type locality: Challenger Exped., stat. 145A.
- Amphilaphis regularis** Wright & Studer, 1889: 71.  
ZMA COEL. no. 3085.  
Type locality: Challenger Exped., stat. 135C; don. British Museum.
- Calypterinus allmani** Wright & Studer, 1889: 53.  
ZMA COEL. no. 3085.  
Type locality: Challenger Exped., stat. Fiji; don. British Museum.
- Mopsea arbuscula** Johnson, 1862: 245 (= *Acanella arbuscula*; Deichman, 1936).  
One fragment, ZMA COEL. no. 7445.  
Type locality: Madeira; don. British Museum.
- Acanella chiliensis** Wright & Studer, 1889: 31.  
ZMA COEL. no. 3085.  
Type locality: Challenger Exped., stat. 307; don. British Museum.
- Acanella normani** Verrill, 1878: 376 (= *A. arbuscula* (Johnson, 1862); Deichman, 1936).  
Two very small fragments, ZMA COEL. no. 7437.  
Type locality: Greenland; coll. Valorous, 1875; don. British Museum.
- Acanella rigida** Wright & Studer, 1889: 31.  
One fragment, ZMA COEL. no. 7450.  
Type locality: Challenger Exped., stat. 194; don. British Museum.
- Ceratoisis grayi** Wright, 1869: 24.  
Three polyps, ZMA COEL. no. 7443.  
Type locality: Sebutal (Portugal); don. British Museum.
- Ceratoisis nuda** Wright & Studer, 1889: 28.  
One fragment, ZMA COEL. no. 7438.  
Type locality: Challenger Exped., stat. Kandavu, Fiji; don. British Museum.



- Ceratoisis paucispinosa** Wright & Studer, 1889: 28.  
Five polyps, ZMA COEL. no. 7452.  
Type locality: Challenger Exped., stat. 232; don. British Museum.
- Ceratoisis philippinensis** Wright & Studer, 1889: 27.  
Eleven polyps, ZMA COEL. no. 7453.  
Type locality: Challenger Exped., stat. 201; don. British Museum.
- Primnoisis ambigua** Wright & Studer, 1889: 39.  
One fragment, ZMA COEL. no. 7447.  
Type locality: Challenger Exped., stat. Kerguelen; don. British Museum.
- Primnoisis rigida** Wright & Studer, 1889: 37.  
One fragment, ZMA COEL. no. 7442.  
Type locality: Challenger Exped., stat. 320; don. British Museum.
- Primnoisis sparsa** Wright & Studer, 1889: 36.  
Three small fragments, ZMA COEL. no. 7451.  
Type locality: Challenger Exped., stat. 149A; don. British Museum.
- Lygus brasiliensis** Gray, 1870: 18 (= *Stylatula brasiliensis*; Deichman, 1936).  
3 fragments of the holotype, ZMA COEL. no. 3490.  
Type locality: off Cape Frio, Brasil; don. British Museum.

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