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A catalogue of the Coelenterate type specimens of the Zoological Museum of Amsterdam. II. Benthic Hydrozoa

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ABSTRACT

This second part of the Coelenterate type catalogue of the Zoological Museum of Amsterdam lists 133 nominal types of benthic Hydrozoa (112 hydroids, 21 hydrocorals).

INTRODUCTION

The order in which the types listed below are given is derived from Vervoort (1972) (hydroids) and Boschma (1957) (hydrocorals), as far as the systematics of taxa above the genus level are concerned. For general information on this type catalogue one is referred to the first part (van Soest, 1975).

Prof. Dr. W. Vervoort (Rijksmuseum van Natuurlijke Historie, Leiden) kindly checked the manuscript and made some valuable suggestions.

Class HYDROZOA
Order HYDROIDA
Suborder THECATA
Family Haleciidae

Halecium dyssymetrum Billard, 1929b: 307, fig. 1 C; Leloup, 1935: 8.

Syntypes: 2 specimens, ZMA COEL. no. 5156.

Type locality: Siboga Exped., stat. 37.

Halecium scalariformis Billard, 1929b: 307, fig. 1 D.

Holotype: ZMA COEL. no. 5160.

Type locality: Siboga Exped., stat. 311.

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Halecium sibogae Billard, 1929b: 307, fig. 1 B.

Syntypes: numerous specimens, ZMA COEL. no. 5153.

Type localities: Siboga Exped., stat. 77, 318.

Baleum singulare Billard, 1929b: 306, fig. 1 A.

Syntypes: 2 specimens, ZMA COEL. no. 5185.

Type locality: Siboga Exped., stat. 122. The species is the type of the genus.

Diplocyathus sibogae Billard, 1929a: 70, fig. 1 A; Leloup, 1938: 6.

Syntypes: 2 specimens, ZMA COEL. no. 5163.

Type locality: Siboga Exped., stat. 117.

Family Campanulinidae

Campanulina maduraensis Billard, 1940b: 136, figs. I—II.

Holotype: ZMA COEL. no. 5120.

Type locality: Siboga Exped., stat. 2.

Campanulina (?) **paucilaminosa** Billard, 1940b: 137, fig. III.

Syntypes: 5 specimens, ZMA COEL. no. 5209.

Type locality: Siboga Exped., stat. 150.

Family Lovenellidae

Egmundella sibogae Billard, 1940a: 134, figs. I—III.

Syntypes: 2 specimens, ZMA COEL. no. 5212.

Type localities: Siboga Exped., stat. 47, 166.

Family Lafoeidae

Hebella cylindrica (Von Lendenfeld, 1884) var. **elongata** Billard, 1942b: 67, fig. 1.

Syntypes: numerous specimens, ZMA COEL. no. 5182, 5232.

Type locality: Siboga Exped., stat. 257. (fixed on *Sertularella moluccana* Von Campenhausen, 1896).

Hebella dyssymetra Billard, 1932 var. **minor** Billard, 1942b: 69, fig. 6.

Holotype: ZMA COEL. no. 5230.

Type locality: Siboga Exped., stat. 152. (fixed on *Antenella balei* (Billard 1911)).

Hebella dyssymetra Billard, 1932 var. **monogona** Billard, 1942b: 69, fig. 4.

Syntypes: numerous specimens, ZMA COEL. no. 5229.

Type locality: Siboga Exped., stat. 273. (fixed on *Lytocarpus philippinus* (Kirchenpauer, 1872)).

Hebella dyssymetra Billard, 1932 var. **trigona** Billard, 1942b: 68, figs. 2-3.

Holotype: ZMA COEL. no. 5177.

Type locality: Siboga Exped., stat. 77. (fixed on *Antenella secundaria* (Gmelin, 1788)).

Hebella dyssymetra Billard, 1932 var. **undulata** Billard, 1942b: 69, fig. 5.

Holotype: ZMA COEL. no. 5178.

Type locality: Siboga Exped., stat. 213. (fixed on *Lytocarpus philippinus* (Kirchenpauer, 1872)).

There is some confusion in the way Billard spelled the name of his new va-self, so that in all probability "*undulata*" is the name Billard intended.

it is "*undulata*"; the specimen in the jar is labeled "*undulata*" by Billard him-self, so that in all probability "*undulata*" is the name Billard intended.

Hebella laterocaudata Billard, 1942b: 69, fig. 7.

Syntypes: 2 specimens, ZMA COEL. no. 5183, 5231.

Type localities: Siboga Exped., stat. 78, 122. (fixed on *Thecocarpus brevirostris* (Busk, 1852)).

Hebellopsis sibogae Billard, 1942b: 70, fig. 8.

Holotype: ZMA COEL. no. 5224.

Type locality: Siboga Exped., stat. 129.

Zygophylax bifurcata Billard, 1942a: 34, figs. 1-3.

Syntypes: 6 specimens, ZMA COEL. no. 5142.

Type locality: Siboga Exped., stat. 284.

Zygophylax brevitheca Jäderholm, 1910 var. *sibogae* Billard, 1942a: 35, fig. 4.

Syntypes: 11 specimens, ZMA COEL. no. 5145.

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

Zygophylax sibogae Billard, 1918: 21, fig. 1; Totton, 1930: 167.

Syntypes: 8 specimens, ZMA COEL. no. 5166.

Type locality: Siboga Exped., stat. 254.

Perisiphonia chazaliei Versluys, 1899: 32, figs. 2-4. *Zygophylax chazaliei*; Ver-voort, 1967: 101.

Syntypes: 4 specimens, ZMA COEL. no. 4104.

Type locality: Los Testigos (Leeward Isl.); coll. Chazalie-Exped., 1896.

Family Campanulariidae

Laomedea bicuspidata (Clark, 1875) var. *tenuis* Vervoort, 1946: 345, fig. 10c.

Syntypes: 4 specimens, ZMA COEL. no. 4419.

Type locality: Mouth of the Koeboe River, West Borneo; coll. A. Lorentz, 31-VII-1909. (fixed on *Cordylophora caspia* (Pallas, 1771)).

Family Sertulariidae

Diphasia cauloathea Billard, 1920a: 145, fig. 1 C; Billard, 1925: 211, fig. 51.

Syntypes: 2 specimens, ZMA COEL. no. 4695.

Type locality: Siboga Exped., stat. 153.

Diphasia cristata Billard, 1920a: 147, fig. 1 F; Billard, 1925: 218, fig. 57.

Holotype: ZMA COEL. no. 4694.

Type locality: Siboga Exped., stat. 102.

Diphasia minuta Billard, 1920a: 144, figs. 1 A-B; Billard, 1925: 209, fig. 50.

Holotype: ZMA COEL. no. 4692. Paratype: ZMA COEL. no. 4691.

Type localities: Siboga Exped., stat. 78 (paratype fixed on *Thecocarpus myriophyllum* (Linnaeus, 1758) var. *orientalis* Billard, 1908) and stat. 166 (holotype, fixed on *Thecocarpus perarmatus* Billard, 1908).

- Diphasia orientalis** Billard, 1920a: 146, figs. 1 D-E; Billard, 1925: 212, fig. 52.
Syntypes: several specimens, ZMA COEL. no. 5198.
Type locality: Siboga Exped., stat. 164 (fixed on *Halicornaria gracilicaulis*).
One syntype specimen has been donated to the Rijksmuseum van Natuurlijke Historie at Leiden.
- Dynamena crisioides** Lamouroux, 1824 var. **alternata** Billard, 1924a: 652; Billard, 1925: 187, pl. 7 (fig. 22), text-figs. 37 G, 39; Vervoort, 1941: 213. *D. crisioides*; Mammen, 1965: 51.
Syntypes: numerous specimens, ZMA COEL. no. 4651.
Type locality: Siboga Exped., stat. 16.
- Dynamena crisioides** Lamouroux, 1824 var. **gigantea** Billard, 1924a: 651; Billard, 1925: 186, pl. 8 (fig. 24), text-fig. 37 F; Leloup, 1934: 7; Vervoort, 1941: 210; Millard, 1958: 183. *D. crisioides*; Mammen, 1965: 51.
Syntypes: numerous specimens, ZMA COEL. no. 4649, 4650, 5132.
Type localities: Siboga Exped., stat. 37, 43, 164.
- Dynamena crisioides** Lamouroux, 1824 var. **peculiaris** Billard, 1925: 185, text-fig. 38. *D. crisioides*; Mammen, 1965: 51.
Syntypes: several specimens, ZMA COEL. no. 4648.
Type localities: Siboga Exped., stat. 71, 250, 282. The material from stat. 250 and 282 is missing.
- Dynamena gibbosa** Billard, 1924a: 650, fig. 2 G; Billard, 1925: 199, fig. 45. *?D. quadridentata* forma *typica*; Mendes, 1946: 559.
Syntypes: 4 specimens, ZMA COEL. no. 4646.
Type locality: Siboga Exped., stat. 80.
- Sertularella acutidentata** Billard, 1919: 20, figs. 1 E, 2; Billard, 1925: 148, pl. 7 (fig. 8), text-fig. 18.
Syntypes: 7 specimens, ZMA COEL. no. 3963.
Type locality: Siboga Exped., stat. 49a.
- Sertularella ceramensis** Billard, 1924a: 649; Billard, 1925: 170, pl. 7 (fig. 20), text-fig. 30. *Geminella ceramensis*; Mendes, 1946: 570.
Syntypes: 6 specimens, ZMA COEL. no. 3958, 3959.
Type localities: Siboga Exped., stat. 47, 166.
The species is the type of the genus *Geminella* Billard, 1925: 170 (non: *Geminella* Allman, 1847).
- Sertularella crassa** Billard, 1929: 18, fig. 1 B; Billard, 1925: 141, pl. 7 (fig. 5), text-fig. 11.
Holotype: ZMA COEL. no. 3957.
Type locality: Siboga Exped., stat. 97.
- Sertularella decipiens** Billard, 1919: 21, fig. 3 B; Billard, 1925: 155, pl. 7 (fig. 15), pl. 8 (fig. 34), text-fig. 21.
Syntypes: 3 specimens, ZMA COEL. no. 3956.
Type locality: Siboga Exped., stat. 258.

- Sertularella delicata** Billard, 1919: 21, fig. 3 A. *S. diaphana* (Allman, 1885) var. *delicata*; Billard, 1925: 161, pl. 7 (fig. 14), text-fig. 24.
Syntypes: 5 specimens, ZMA COEL. no. 3951.
Type locality: Siboga Exped., stat. 78.
- Sertularella diaphana** (Allman, 1885) var. *gigantea* Billard, 1925: 161, pl. 9 (fig. 35); Vervoort, 1941: 213.
Holotype: ZMA COEL. no. 3953.
Type locality: Siboga Exped., stat. 272.
- Sertularella diaphana** (Allman, 1885) var. *orthogona* Billard, 1925: 161, text-fig. 23.
Holotype: ZMA COEL. no. 3950.
Type locality: Siboga Exped., stat. 105.
- Sertularella gayi** (Lamouroux, 1821) var. *parva* Billard, 1925: 140, pl. 7 (fig. 4), text-fig. 10; Vervoort, 1946: 308.
Syntypes: 5 specimens, ZMA COEL. no. 3947.
Type localities: Siboga Exped., stat. 150, 259.
- Sertularella inconstans** Billard, 1919: 19, fig. 1 C; Billard, 1925: 142, pl. 7 (fig. 6), text-fig. 12; Mendes, 1946: 569.
Holotype: ZMA COEL. no. 3946.
Type locality: Siboga Exped., stat. 150.
- Sertularella intricata** Billard, 1919: 20, fig. 1 D; Billard, 1925: 145, pl. 7 (fig. 7), text-fig. 15.
Syntypes: 2 specimens, ZMA COEL. no. 3945.
Type locality: Siboga Exped., stat. 95.
- Sertularella keiensis** Billard, 1925: 147, text-fig. 16.
Holotype: ZMA COEL. no. 3944.
Type locality: Siboga Exped., stat. 257.
- Sertularella macrocarpa** Billard, 1918: 23, figs. 3 A-B; Billard, 1925: 162, pl. 7 (figs. 16-17), text-fig. 25.
Syntypes: several specimens, ZMA COEL. no. 3942.
Type locality: Siboga Exped., stat. 173.
- Sertularella minuscula** Billard, 1924a: 648, fig. 2 F; Billard, 1925: 139, fig. 9; Leloup, 1932: 161; Leloup, 1935: 45; Van Gemerden-Hoogveen, 1965: 34; Vervoort, 1968: 105.
Syntypes: 3 specimens, ZMA COEL. no. 3938.
Type locality: Siboga Exped., stat. 303.
- Sertularella pedunculata** Billard, 1919: 18, fig. 1 A; Billard, 1925: 165, pl. 7 (fig. 18), text-fig. 27 D.
Holotype: ZMA COEL. no. 3926.
Type locality: Siboga Exped., stat. 295.
- Sertularella serrata** Billard, 1919: 22, fig. 3 C. *Dynamena tubuliformis*; Billard, 1924b: 62; *Dynamena crisioides*; Billard, 1925: 181.
Holotype: (among numerous specimens of *D. crisioides*, ZMA COEL. no. 4653-4657).

After Billard had described *S. serrata* nov. spec. (1919), he had second

thoughts, and considered it synonymous with *D. crisioides* (1925). When he returned the Siboga hydroids to Amsterdam the holotype of *S. serrata* was already included in the vast amount of specimens of *D. crisioides*, and as Billard gave no type locality with the description of *S. serrata* it will be virtually impossible to isolate the specimen. It might as well be considered lost.

Sertularella sibogae Billard, 1924b: 69, fig. 3; Billard, 1925: 166, fig. 27 E.

Holotype: ZMA COEL. no. 3681.

Type locality: Siboga Exped., stat. 250.

Sertularella singularis Billard, 1920b: 14, fig. 1; *S. moluccana*; Billard, 1924b: 59; Billard, 1925: 167.

Syntypes: numerous specimens, ZMA COEL. no. 3935, 3936, 3937, 5186.

Type localities: Siboga Exped., stat. 77, 80, 117, 133, 166, 204, 257, 260, 277, 303, 305, 306, 320. The material from stat. 117, 257, 260 is missing. The material from stat. 133 has been donated to the Rijksmuseum van Natuurlijke Historie at Leiden.

Sertularella timorensis Billard, 1919: 21, fig. 1 F. *S. quadridens* var. *timorensis*; Billard, 1925: 153, pl. 7 (figs. 10-11), text-fig. 20.

Syntypes: several specimens, ZMA COEL. no. 3864.

Type locality: Siboga Exped., stat. 282.

Sertularella tricineta Billard, 1939: 248, fig. 1.

Holotype: ZMA COEL. no. 5203.

Type locality: Siboga Exped., stat. 257.

Sertularia borneensis Billard, 1924a: 649, fig. 1 D; Billard, 1925: 171, fig. 31.

S. malayensis var. *borneensis*; Leloup, 1934: 7. *S. westindica*; Mammen, 1965: 41.

Syntypes: several specimens, ZMA COEL. no. 3923.

Type locality: Siboga Exped., stat. 80. (fixed on *Lytocarpus phoeniceus*).

Next to the type material from station 80 and additional material from station 164 there is another sample of this species in the ZMA-collections, labeled "co-type, stat. 65a" by Billard. This material is not mentioned in either of Billard's papers.

Sertularia malayensis Billard, 1924a: 649, fig. 1 E; Billard, 1925: 173, fig. 32.

S. malayensis var. *typique*; Leloup, 1934: 7.

Syntypes: numerous specimens, ZMA COEL. no. 3879.

Type locality: Siboga Exped., stat. 80. (fixed on other hydroid species).

Desmoscyphus inflatus Versluys, 1899: 42, figs. 11-13. *Sertularia inflatus*; Vanhöffen, 1910: 321; Vervoort, 1959: 281; Rees & Thursfield, 1965: 147; Van Gemerden-Hoogeveen, 1965: 34; Vervoort, 1967: 48.

Holotype: ZMA COEL. no. 4700 (mounted on a slide).

Type locality: Branco Island (Cape Verde); coll. Chazalie-Exped., 1895.

Desmoscyphus brevicyathus Versluys, 1899: 40, figs. 9-10. *Sertularia turbinata*; Billard, 1925: 177; Vervoort, 1959: 275; Mammen, 1965: 46; Van Gemerden-Hoogeveen, 1965: 38; Rees & Thursfield, 1965: 148; Vervoort, 1967: 52. ? *S. perpusilla*; Broch, 1933: 81.

Holotype: ZMA COEL. no. 4702.

- Type locality: Branco Island (Cape Verde); coll. Chazalie-Exped., 1895.
Desmoscyphus dalmasi Versluys, 1899: 38, figs. 6-8. *Sertularia dalmasi*; Vervoort, 1959: 279; Rees & Thursfield, 1965: 146.
Holotype: ZMA COEL. no. 4701.
Type locality: Tortugas (Leeward Isl.); coll. Chazalie-Exped., 1896.
Thyrosocyphus sibogae Billard, 1930: 530, fig. 1.
Holotype: ZMA COEL. no. 5122.
Type locality: Siboga Exped., stat. 60.
Salacia sibogae Billard, 1924b: 64, fig. 1; Billard, 1925: 206, pl. 8 (fig. 30), text-figs. 49 A-B.
Syntypes: 3 specimens, ZMA COEL. no. 3972.
Type locality: Siboga Exped., stat. 251.
Thuiaria abyssicola Billard, 1925: 200, pl. 8 (fig. 26), text-fig. 46.
Holotype: ZMA COEL. no. 3803.
Type locality: Siboga Exped., stat. 122.

Family Syntheciidae

- Synthecium megathecum** Billard, 1924a: 648; Billard, 1925: 130, pl. 7 (fig. 2), text-figs. 6 A-B; Leloup, 1935: 32; Vervoort, 1946: 306.
Syntypes: several specimens, ZMA COEL. no. 3842.
Type locality: Siboga Exped., stat. 144.
Billard states that *S. megathecum* is a *nomen novum* for specimens wrongly assigned to *S. tubithecum* (Allman, 1885) by several authors. This means that *S. megathecum* is not a new name but a new species.
- Synthecium megathecum** Billard, 1924 var. **parvulum** Billard, 1925: 132.
Syntypes: 10 specimens, ZMA COEL. no. 3841.
Type locality: Siboga Exped., stat. 225.
- Synthecium patulum** (Busk, 1852) var. **elongatum** Billard, 1925: 128, text-fig. 4.
Syntypes: 6 specimens, ZMA COEL. no. 3838.
Type locality: Siboga Exped., stat. 204.
- Synthecium samauense** Billard, 1924a: 646, figs. 1 A-B; Billard, 1925: 132, pl. 7 (fig. 3), text-figs. 7 A-E.
Syntypes: several specimens, ZMA COEL. no. 3833, 3834, 3835.
Type locality: Siboga Exped., stat. 60.
- Synthecium singulare** Billard, 1924a: 648, fig. 1 C; Billard, 1925: 134, fig. 8.
Syntypes: 3 specimens, ZMA COEL. no. 3832.
Type locality: Siboga Exped., stat. 257.
- Hincksella sibogae** Billard, 1918: 23, fig. 2; Billard, 1925: 122, pl. 7 (fig. 1), text-fig. 1; Briggs & Gardiner, 1931: 190.
Syntypes: 3 specimens, ZMA COEL. no. 4495.
Type locality: Siboga Exped., stat. 49a.

Family Plumulariidae

Aglaophenia cylindrata Versluys, 1899: 49, figs. 19-21; Rees & Thursfield, 1965: 188. *A. rhynchocarpa*; Vervoort, 1967: 74.

Holotype: ZMA COEL. no. 4971.

Type locality: Los Testigos (Leeward Islands), Caribbean; coll. Chazalie-Exped., 1896.

Aglaophenia elongata Meneghini, 1845 var. *flexilis* Billard, 1913: 105, text-fig. 94.

Syntypes: 2 specimens, ZMA COEL. no. 4966.

Type locality: Siboga Exped., stat. 125.

Aglaophenia elongata Meneghini, 1845 var. *sibogae* Billard, 1913: 103, text-fig. 92. *A. elongata*; Vervoort, 1941: 232.

Only a fragment from Siboga Exped., stat. 258 is left in the collections of the ZMA (COEL. no. 5253), the remaining syntype specimens (approximately 15) are missing.

Aglaophenia pluma (Linnaeus, 1758) var. *sibogae* Billard, 1913: 101, text-figs. 90 A-B. 91.

Syntypes: numerous specimens, ZMA COEL. no. 4958.

Type localities: Siboga Exped., stat. 77, 164.

Aglaophenia postdentata Billard, 1913: 100, text-fig. 89; Vervoort, 1941: 231.

Syntypes: 2 specimens, ZMA COEL. no. 4940, 4941.

Type localities: Siboga Exped., stat. 71, 152.

Aglaophenia tridentata Versluys, 1899: 47, figs. 16-18; Vervoort, 1967: 76.

Syntypes: 2 specimens, ZMA COEL. no. 4939.

Type locality: Los Testigos (Leeward Islands), Caribbean; coll. Chazalie-Exped., 1896.

Cladocarpus multiapertus Billard, 1911a: 71, fig. 16; Billard, 1913: 73, text-fig. 59; Vervoort, 1966: 149.

Holotype: ZMA COEL. no. 4847.

Type locality: Siboga Exped., stat. 159.

Cladocarpus sibogae Billard, 1911a: 70, fig. 15; Billard, 1913: 71, text-figs. 57-58. *C. distomus*; Vervoort, 1972: 212.

Syntypes: 2 specimens, ZMA COEL. no. 4845.

Type locality: Siboga Exped., stat. 262.

Monostaechas fischeri Nutting, 1905 var. *simplex* Billard, 1913: 16, pl. 1 (fig. 10), text-fig. 7. *M. quadridens*; Vervoort, 1967: 61.

Syntypes: 5 specimens, ZMA COEL. no. 4167, 4168.

Type localities: Siboga Exped., stat. 80, 133.

Monostaechas sibogae Billard, 1913: 15, fig. 6.

Holotype: ZMA COEL. no. 4166.

Type locality: Siboga Exped., stat. 77.

Lytocarpus philippinus (Kirchenpauer, 1872) var. *singularis* Billard, 1908b: 92 figs. A-B. *L. singularis*; Billard, 1913: 79, text-figs. 44-45.

Syntypes: numerous specimens, ZMA COEL. no. 4176, 4178, 5249.

Type localities: Siboga Exped., stat. 80, 164.

- Lytocarpus sibogae** Billard, 1913: 76, pl. 5 (fig. 40), text-fig. 42.
Syntypes: 2 specimens, ZMA COEL. no. 4177, 5248.
Type locality: Siboga Exped., stat. 125.
- Thecocarpus myriophyllum** (Linnaeus, 1758) var. **angulatus** Billard, 1913: 94, pl. 5 (fig. 44), text-figs. 79-80; Billard, 1922: 347.
Syntypes: 2 specimens, ZMA COEL. no. 3809.
Type locality: Siboga Exped., stat. 274.
- Thecocarpus myriophyllum** (Linnaeus, 1758) var. **orientalis** Billard, 1908a: 73, fig. 1; Billard, 1913: 91, pl. 5 (fig. 43), text-figs. 76-78; Billard, 1922: 347; Vervoort, 1941: 231; Vervoort, 1972: 219.
Syntypes: numerous specimens, ZMA COEL. no. 3808, 5219.
Type localities: Siboga Exped., stat. 74, 77, 78, 80, 108, 153, 318, 319, 320, 321.
- Thecocarpus myriophyllum** (Linnaeus, 1758) var. **perarmatus** Billard, 1908a: 76, figs. 2-3. *T. perarmatus*; Billard, 1913: 95, text-figs. 81-86.
Syntypes: 2 specimens, ZMA COEL. no. 3804, 4692, 5262.
Type localities: Siboga Exped., stat. 166, 167.
- Callicarpa chazaliei** Versluys, 1899: 44, figs. 14-15; Vervoort, 1968: 109.
Holotype: ZMA COEL. no. 4902.
Type locality: Tortugas (Leeward Islands), Caribbean; coll. Chazalie-Exped., 1896.
- Halicornaria allmani** Marktanner, 1890 var. **sibogae** Billard, 1913: 68, text-fig. 55.
Syntypes: 2 specimens, ZMA COEL. no. 4531, 5257.
Type locality: Siboga Exped., stat. 258.
- Halicornaria gracilicaulis** (Jäderholm, 1903) var. **armata** Billard, 1913: 65, text-fig. 52.
Holotype: ZMA COEL. no. 4527.
Type locality: Siboga Exped., stat. 49a.
- Halicornaria intermedia** Billard, 1913: 65, pl. 4 (fig. 37), text-fig. 53.
Syntypes: numerous specimens, ZMA COEL. no. 4522.
Type locality: Siboga Exped., stat. 162.
- Halicornaria longicornis** (Busk, 1852) var. **sibogae** Billard, 1913: 67, pl. 4 (fig. 38), text-fig. 54.
Syntypes: 7 specimens, ZMA COEL. no. 4521.
Type locality: Siboga Exped., stat. 274.
- Halicornaria sibogae** Billard, 1918: 25, fig. 4. *Gymnangium expansum*; Vervoort, 1966.
Holotype: ZMA COEL. no. 4520.
Type locality: Siboga Exped., stat. 284.
- Plumularia balei** Billard, 1911a: 63, fig. 3. *Antenella balei*; Billard, 1913: 13, pl. 1 (figs. 6, 9), text-fig. 5.
Syntypes: 3 specimens, ZMA COEL. no. 5264.
Type locality: Siboga Exped., stat. 164.

Plumularia bedoti Billard, 1911a: 64, fig. 4; Billard, 1913: 27, pl. 2 (fig. 21), text-figs. 20-21.

Syntypes: numerous specimens, ZMA COEL. no. 4074.

Type localities: Siboga Exped., stat. 49a, 80, 95, 99, 133, 162, 164.

Plumularia buski Bale, 1884 var. **peculiaris** Billard, 1913: 23, pl. 1 (fig. 17), text-figs. 12-13.

Syntypes: numerous specimens, ZMA COEL. no. 4072, 5242.

Type locality: Siboga exped., stat. 99.

Plumularia campanuloides Billard, 1911a: 64, fig. 7; Billard, 1913: 18, pl. 1 (fig. 16), text-fig. 8.

Syntypes: 2 specimens, ZMA COEL. no. 4063, 5246.

Type locality: Siboga Exped., stat. 133.

Plumularia concava Billard, 1911a: 65, fig. 6; Billard, 1913: 19, pl. 1 (fig. 14), text-figs. 9-10.

Syntypes: numerous specimens, ZMA COEL. no. 5236.

Type locality: Siboga Exped., stat. 117, 257.

Plumularia crassa Billard, 1911a: 67, fig. 9; Billard, 1913: 26, pl. 1 (fig. 18), text-figs. 17-19.

Syntypes: 5 specimens, ZMA COEL. no. 4066.

Type locality: Siboga Exped., stat. 273.

Plumularia crater Billard, 1911a: 69, fig. 13; Billard, 1913: 37, pl. 2 (fig. 23), text-figs. 27-28.

Syntypes: 6 specimens, ZMA COEL. no. 4068, 5239.

Type locality: Siboga Exped., stat. 49a.

Plumularia diaphragmata Billard, 1911a: 68, fig. 10; Billard, 1913: 40, pl. 3 (fig. 28), text-fig. 31.

Syntypes: several specimens, ZMA COEL. no. 4061, 5240.

Type localities: Siboga Exped., stat. 99, 164.

Billard refers to two specimens of stat. 164 as "type" and to several specimens of stat. 99 as "cotype".

Plumularia habereri Stechow, 1909 var. **attenuata** Billard, 1913: 42, text-fig. 34.

Syntypes: 2 specimens, ZMA COEL. no. 4056, 7422.

Type localities: Siboga Exped., stat. 144, 310.

Plumularia habereri Stechow, 1909 var. **elongata** Billard, 1913: 44, pl. 2 (fig. 25), text-figs. 35-37.

Syntypes: 3 specimens, ZMA COEL. no. 4054, 7423.

Type localities: Siboga Exped., stat. 77, 80.

Plumularia habereri Stechow, 1909 var. **mediolineata** Billard, 1913: 45, pl. 3 (fig. 31), text-fig. 39.

Syntypes: 5 specimens, ZMA COEL. no. 4059, 5245.

Type localities: Siboga Exped., stat. 71, 80, 164.

Plumularia habereri Stechow, 1909 var. **mucronata** Billard, 1913: 46, pl. 2 (fig. 24), text-fig. 40.

Holotype (fragm.): ZMA COEL. no. 4055, 5245, 7425.

Type locality: Siboga Exped., stat. 80.

Plumularia habereri Stechow, 1909 var. *subarmata* Billard, 1913: 45, text-fig. 38.

Holotype (fragm.): ZMA COEL. no. 4057, 5245, 7424.

Type locality: Siboga Exped., stat. 99.

Plumularia insignis Allman, 1883 var. *conjuncta* Billard, 1913: 49, text-figs. 42-43.

Holotype: ZMA COEL. no. 4051.

Type locality: Siboga Exped., stat. 95.

Plumularia insignis Allman, 1883 var. *gracilis* Billard, 1913: 47, pl. 3 (figs. 29-30).

Syntypes: 4 specimens, ZMA COEL. no. 4052, 5234.

Type localities: Siboga Exped., stat. 159, 262.

Plumularia jedani Billard, 1913: 41, text-figs. 32-33.

Syntypes: 2 specimens, ZMA COEL. no. 4053.

Type locality: Siboga Exped., stat. 273.

Plumularia kossowskiae Billard, 1911a: 64, fig. 5; Billard, 1913: 29, pl. 1 (fig. 19), text-fig. 22.

Holotype: ZMA COEL. no. 4048.

Type locality: Siboga Exped., stat. 166.

Plumularia nuttingi Billard, 1911a: 66. *P. buski*; Billard, 1913: 21.

Type material among numerous specimens of *P. buski*, ZMA COEL. no. 4070, 4071, 5242.

After Billard had described *P. nuttingi* nov. spec. (1911), he had second thoughts and considered it synonymous with *P. buski* (1913). When he returned the Siboga hydroids to Amsterdam the type material of *P. nuttingi* was already included in the numerous specimens of *P. buski*, and as Billard gave no figure nor a type locality with the description of *P. nuttingi* it will be virtually impossible to isolate the material. It might as well be considered lost.

Plumularia orientalis Billard, 1911a: 70, fig. 14; Billard, 1913: 38, text-fig. 29.

Holotype: ZMA COEL. no. 4046.

Type locality: Siboga Exped., stat. 166.

Plumularia polymorpha Billard, 1913: 24, text-figs. 14-15. *Antenella polymorpha*; Vervoort, 1941: 218. *Halopteris polymorpha*; Vervoort, 1966: 132.

Syntypes: 4 specimens, ZMA COEL. no. 4044, 5235.

Type localities: Siboga Exped., stat. 77, 80, 299.

Plumularia polymorpha Billard, 1913 var. *sibogae* Billard, 1913: 25, text-fig. 16.

Syntypes: 2 specimens, ZMA COEL. no. 4045.

Type locality: Siboga Exped., stat. 164.

Plumularia sibogae Billard, 1911a: 62, fig. 1. *Antenella sibogae*; Billard, 1913: 9, pl. 1 (figs. 4, 7), text-figs. 2-3; Vervoort, 1946: 322.

Syntypes: several specimens, ZMA COEL. no. 4926, 5263.

Type locality: Siboga Exped., stat. 310.

Plumularia spiralis Billard, 1911a: 69, fig. 12; Billard, 1913: 49, text-fig. 44; Vervoort, 1946: 325; Hirohito, 1969: 27.

Syntypes: numerous specimens, ZMA COEL. no. 4021, 5243.

Type locality: Siboga Exped., stat. 282.

Plumularia spiralis Billard, 1911 var. *longitheca* Billard, 1911a: 69; Billard, 1913: 51, text-fig. 45.

Syntypes: 7 specimens, ZMA COEL. no. 4020, 5214.

Type locality: Siboga Exped., stat. 77.

Plumularia strobilophora Billard, 1913: 35, text-fig. 26.

Syntypes: 5 specimens, ZMA COEL. no. 4014.

Type locality: Siboga Exped., stat. 257.

Plumularia varians Billard, 1911: 63, fig. 2. *Antenella varians*; Billard, 1913: 11, pl. 1 (figs. 5, 8), text-fig. 4; Hirohito, 1969: 24.

Syntypes: several specimens, ZMA COEL. no. 4925, 5262.

Type locality: Siboga Exped., stat. 166.

Plumularia ventruosa Billard, 1911a: 68, fig. 11; Billard, 1913: 39, pl. 2 (fig. 22), text-fig. 30.

Holotype: ZMA COEL. no. 4012.

Type locality: Siboga Exped., stat. 175.

Polyplumularia cornuta (Bale, 1884) var. *longispina* Billard, 1913: 56, text-fig. 47.

Syntypes: numerous specimens, ZMA COEL. no. 4010, 5261.

Type localities: Siboga Exped., stat. 166, 167.

Polyplumularia sibogae Billard, 1913: 57, pl. 3 (fig. 34), text-fig. 28.

Syntypes: several specimens, ZMA COEL. no. 4004, 5260.

Type locality: Siboga Exped., stat. 99.

Sibogella erecta Billard, 1911b: 108, fig. 1; Billard, 1913: 61, pl. 3 (fig. 32), text-fig. 51; Vervoort, 1941: 222; Hirohito, 1969: 27.

Syntypes: numerous specimens, ZMA COEL. no. 3852.

Type locality: Siboga Exped., stat. 164.

The species is the type of the genus by monotypy.

Order MILLEPORINA

Family Milleporidae

Millepora tuberosa Boschma, 1966: 409, pl. 1 (figs 1-7), pl. 2 (figs. 1-4), pl. 3 (fig. 1), text-fig. 1.

Syntypes: numerous specimens, ZMA COEL. no. 1875.

Type locality: Pointe Vaccoa, Mauritius; coll. J. H. Stock, 5-II-1964, depth 1-2 m.

Order STYLASTERINA

Family Stylasteridae

Stylaster brunneus Boschma, 1970: 153, pl. 1 (figs. 1-3), pl. 2 (figs. 1-2), text-figs. 1-3.

Holotype: ZMA COEL. no. 5564.

Paratypes: 2 specimens, ZMA COEL. no. 5565, 5566. Three more paratypes

are in the Rijksmuseum van Natuurlijke Historie at Leiden, RMNH COEL. no. 6597, 6598, 6599.

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

Stylaster bilobatus Hickson & England, 1905: 14, pl. 1 (figs. 9-10); Boschma, 1957: 4.

Syntypes: 5 specimens, ZMA COEL. no. 7370, 7371.

Type localities: Siboga Exped., stat. 156, 251, 297.

Stylaster bilobatus Hickson & England, 1905 facies *alba* Hickson & England, 1905: 14. *S. bilobatus*; Boschma, 1957: 4.

Syntypes: 2 specimens, ZMA COEL. no. 7372.

Type localities: Siboga Exped., stat. 251, 297.

Stylaster eximius Kent, 1870 fac. *altus* Hickson & England, 1905: 9. pl. 1 (figs. 1-3). *S. duchassaingi*; Boschma, 1957: 5.

Syntypes: 8 specimens, ZMA COEL. no. 7361, 7362, 7363, 7388.

Type localities: Siboga Exped., stat. 144, 164, 282, 303. The material from stat. 144 (several small pieces) is missing.

Stylaster eximius Kent, 1870 fac. *dentatus* Hickson & England, 1905: 10, pl. 1 (figs. 4-6). *S. duchassaingi*; Boschma, 1957: 6.

Syntypes: 5 specimens, ZMA COEL. no. 7364, 7365, 7369.

Type localities: Siboga Exped., stat. 144, 274, 310.

Stylaster eximius Kent, 1870 fac. *irregularis* Hickson & England, 1905: 10. *S. duchassaingi*; Boschma, 1957: 6.

Syntypes: 3 specimens, ZMA COEL. no. 7366.

Type locality: Siboga Exped., stat. 310.

Stylaster eximius Kent, 1870 fac. *minor* Hickson & England, 1905: 11, pl. 1 (figs. 7-8). *S. duchassaingi*; Boschma, 1957: 6.

Syntypes: numerous specimens, ZMA COEL. no. 7353, 7354, 7355, 7356, 7357, 7358, 7359, 7360, 7373.

Type localities: Siboga Exped., stat. 80, 117, 125, 133, 144, 154, 166, 310, 315.

Stylaster minimus Hickson & England, 1905: 15, pl. 2 (figs. 13-14). *Stenohelia minima*; Boschma, 1957: 32.

Holotype: ZMA COEL. no. 7374.

Type locality: Siboga Exped., stat. 150.

Stylaster multiplex Hickson & England, 1905: 15, pl. 1 (figs. 11-12); Boschma, 1957: 13.

Syntypes: 5 specimens, ZMA COEL. no. 7375, 7376.

Type localities: Siboga Exped., stat. 94, 177.

Stylaster umbonatus Hickson & England, 1905: 16, pl. 2 (figs. 16-17). *Stenohelia umbonata*; Boschma, 1957: 33.

Syntypes: 2 specimens, ZMA COEL. no. 7389.

Type locality: Siboga Exped., stat. 119.

Cryptohelia balia Hickson & England, 1905: 23, pl. 3 (figs. 28-29). *Cryptohelia balia*; Boschma, 1957: 34.

Syntypes: 5 specimens, ZMA COEL. no. 7396.

Type locality: Siboga Exped., stat. 177.

- Cryptohelia pachypoma** Hickson & England, 1905: 22, pl. 3 (figs. 24-25).
Crypthelia pachypoma; Boschma, 1957: 35.
Syntypes: 4 specimens, ZMA COEL. no. 7394.
Type locality: Siboga Exped., stat. 150.
- Cryptohelia platypoma** Hickson & England, 1905: 23, pl. 3 (figs. 26-27). *Cryptohelia platypoma*; Boschma, 1957: 36.
Holotype: ZMA COEL. no. 7395.
Type locality: Siboga Exped., stat. 156.
- Cryptohelia ramosa** Hickson & England, 1905: 21, pl. 2 (figs. 22-23). *Cryptohelia ramosa*; Boschma, 1957: 38.
Holotype (4 fragments): ZMA COEL. no. 7393.
Type locality: Siboga Exped., stat. 122.
- Cryptohelia stenopoma** Hickson & England, 1905: 24, pl. 3 (figs. 30-32). *Cryptohelia stenopoma*; Boschma, 1957: 38.
Syntypes: 3 specimens, ZMA COEL. no. 7397, 7398.
Type localities: Siboga Exped., stat. 177, 226.
- Stylaster tiliatus** Hickson & England, 1905: 16, pl. 2 (fig. 15). *Stenohelia tiliata*; Boschma, 1957: 32.
Holotype + fragments: ZMA COEL. no. 7825.
Type locality: Siboga Exped., stat. 105.
- Errina ramosa** Hickson & England, 1905: 18, pl. 2 (figs. 18-19); Boschma, 1957: 56.
Syntypes: several pieces, ZMA COEL. no. 7826.
Type locality: Siboga Exped., stat. 297.
- Errina horrida** Hickson & England, 1905: 19, pl. 2 (figs. 20-21); Boschma, 1957: 54.
Syntypes: 3 specimens, ZMA COEL. no. 7827.
Type locality: Siboga Exped., stat. 150.
- Conopora major** Hickson & England, 1905: 25, pl. 3 (figs. 33-35); Boschma, 1957: 39.
Syntypes: 5 specimens, ZMA COEL. no. 7828, 7829.
Type localities: Siboga Exped., stat. 119, 251.
- Steganopora spinosa** Hickson & England, 1905: 26, pl. 3 (figs. 36-38); Boschma, 1957: 62.
Holotype: ZMA COEL. no. 7830.
Type locality: Siboga Exped., stat. 150.

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