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A catalogue of the Coelenterate type specimens of the Zoological Museum of Amsterdam. I. General Introduction, Pelagic Coelenterates

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ABSTRACT

This paper represents the first part of a list of Coelenterate type specimens incorporated in the collections of the Zoological Museum. The present 46 pelagic Coelenterate types are listed with their original names accompanied by a non-critical and incomplete synonymy.

GENERAL INTRODUCTION

The collections of Coelenterates of the Zoological Museum of Amsterdam are small. At present they cover a total of about 7800 collection numbers. Of these 883 numbers concern type specimens (= 12%), together representing 574 nominal types. This relative richness in types is largely due to the very rich Siboga material, which yielded 460 nominal Coelenterate types, including genero-types and even family-types.

The type specimens in this catalogue are listed by their original name, arranged systematically in accordance with the modern views on the systematics of the different groups they belong to.

Subdivisions of taxa of a higher order than subclass are made in accordance with Moore, ed., 1963: *Invertebrate Paleontology*, 2nd printing. Lower subdivisions are derived from the systematics used by one leading taxonomist of each group. Some less well represented or smaller groups, which apparently received little attention recently, are presented in the order given by older authors. Within the genus the species are listed alphabetically.

Each type is accompanied by synonyms, if they could be found, to present the view of later authors about the validity of the new species and the correct-

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ness or incorrectness of the genus assignment. It is to be well understood that these synonyms are only uncritical name-synonyms extracted from literature, and are not the views of the present author.

In addition to the synonyms the number of specimens in the type series (holotype, paratype(s), syntypes), the numbers they bear in the collection of the Zoological Museum of Amsterdam (ZMA. COEL. no.), and the type localities are given. If it concerns Siboga material, the localities are given as station-numbers; for the data about these stations one is referred to the station list of the Siboga Expedition (cf. Weber, 1902). If one or more specimens of the type series are known to have been donated to other institutions or persons, or if they are missing, this is stated with each type separately.

PELAGIC COELENTERATES

Introductory remark: The pelagic Cnidaria are arranged in accordance with Kramp (1961) (Scyphozoa, Hydromedusae) and Totton (1965) (Siphonophora). For the Acnidaria the order given by Moser (1903) has been used.

Subphylum ACNIDARIA Class TENTACULATA Order CYDIPPIDEA Family Pleurobrachiidae

Pleurobrachia globosa Moser, 1903: 7, pl. 1 (figs. 1-4); Moser, 1909: 148.
Syntypes: 127 specimens, ZMA COEL. no. 1914.

Type localities: Siboga Exped., stat. 50, 104, 106, 172, 184, 194, Boeton, 205. Three specimens from stat. 205 have been donated to the Rijksmuseum van Natuurlijke Historie at Leiden. One specimen from stat. 172 is missing.

Pleurobrachia pigmentata Moser, 1903: 8, pl. 1 (figs. 5-6), pl. 4 (figs. 1-3); Moser, 1909: 146.

Syntypes: 10 specimens, ZMA COEL. no. 7346.

Type localities: Siboga Exped., stat. 165, 172. Three specimens from stat. 165 and the specimen from stat. 172 are missing.

Lampetia elegans Moser, 1903: 15, pl. 1 (fig. 7). *Ganeshia elegans*; Moser, 1909: 185.

Syntypes: 8 specimens, ZMA COEL. no. 1910.

Type localities: Siboga Exped., stat. 106, 136, 229, Boeton. Two specimens from stat. 106 and two from stat. Boeton are missing. The species is the type of the genus *Ganeshia* Moser, 1909 by monotypy.

Class NUDA Order BEROIDEA Family Beroeidae

Beroe pandorina Moser, 1903: 24, pl. 3 (figs. 1-8), pl. 4 (figs. 4-6). *Pandora pandorina*; Moser, 1909: 160.

Syntypes: 12 specimens, ZMA COEL. no. 1901.

Type localities: Siboga Exped., stat. 136, 215a, 205. Two specimens from stat. 215a are missing.

Subphylum CNIDARIA
Class SCYPHOZOA
Order CORONATAE
Family Paraphyllinidae

Paraphyllina intermedia Maas, 1903: 8, pl. 2 (figs. 10-14), pl. 11 (fig. 106); Kramp, 1961: 318.

Syntypes: 2 specimens, ZMA COEL. no. 2057.

Type locality: Siboga Exped., stat. 220. The species is the type of the genus.

Order SEMAEOSTOMEAE
Family Pelagiidae

Pelagia curaçaoensis Stiasny, 1924: 83, fig. 1. *P. noctiluca*; Kramp, 1961: 328.

Syntypes: 2 specimens, ZMA COEL. no. 2061.

Type locality: Spaanse Haven, Curaçao.

Order RHIZOSTOMEAE
Family Cassiopeidae

Cassiopeja andromeda (Forskål, 1775) var. **malayensis** Maas, 1903: 43, pl. 11 (figs. 98, 102), pl. 12 (fig. 112), pl. 4 (figs. 21-25, 27-29, 31-34). *Cassiopea andromeda*; Kramp, 1961: 349.

Syntypes: 20 specimens, ZMA COEL. no. 1983, 1984, 1985, 1987, 1988, 1989, 1991.

Type localities: Siboga Exped., stat. 2, 64, 144, 205, 213, 234, 258.

Cassiopeja ornata Haeckel, 1880 var. **digitata** Maas, 1903: 45, pl. 4 (figs. 26, 30). *Cassiopea ornata*; Kramp, 1961: 351.

Syntypes: 3 specimens, ZMA COEL. no. 1992, 1993.

Type localities: Siboga Exped., stat. 213, 261, 50. The specimen from stat. 50 is missing from the ZMA collection.

Cassiopeia vanderhorsti Stiasny, 1924: 85, figs. 2-4, 7. *Cassiopea vanderhorsti*; Kramp, 1961: 351. *C. xamachana* var. *vanderhorsti*; Hummelinck, 1933: 480.

Syntypes: 22 specimens, ZMA COEL. no. 1982.

Type locality: Caracas Bay, Curaçao. Coll. C. J. van der Horst, 1920.

Family Cepheidae

Netrostoma coerulescens Maas, 1903: 35, pl. 5 (figs. 37-46), pl. 11 (figs. 97, 103), pl. 12 (fig. 109); Kramp, 1961: 356.

Syntypes: 11 specimens, ZMA COEL. no. 2054, 2055, 2056.

Type localities: Siboga Exped., stat. 209, 93, Ambon.

Family Mastigiidae

Mastigias papua (Lesson, 1830) var. **sibogae** Maas, 1903: 66, pl. 7 (figs.

58-61, 64), pl. 8 (figs. 75-77), pl. 9 (figs. 84-85), pl. 12 (fig. 110). *M. papua*; Kramp, 1961: 359.

Syntypes: 17 specimens, ZMA COEL. no. 2036, 2039, 2040, 2041, 2043.

Type localities: Siboga Exped., stat. 71, 125, 213, 299, 313. One specimen from stat. 299 and four from stat. 213 are missing. They may have been donated to the Museum in München.

Family Versurigidae

Crossostoma anadyomene Maas, 1903: 56, pl. 7 (figs. 65-68). *Versuriga anadyomene*; Kramp, 1961: 363.

Holotype: ZMA COEL. no. 2016.

Type locality: Siboga Exped., stat. 314. The species is the type of the genus *Versuriga* Kramp, 1961 by monotypy.

Family Catostylidae

Crambione mastigophora Maas, 1903: 49, pl. 6 (figs. 47-53), pl. 8 (figs. 71-74), pl. 11 (figs. 100, 104), pl. 12 (fig. 113); Kramp, 1961: 373.

Syntypes: 20 specimens, ZMA COEL. no. 2005, 2009, 2010, 2012.

Type localities: Siboga Exped., stat. 140, 209, Ambon. The species is the type of the genus.

SCYPHOZOA INCERTAE SEDIS (Scyphopolyps)

Stephanoscyphus komaii Leloup, 1937: 66, fig. 42.

Holotype: ZMA COEL. no. 3437.

Type locality: Banda (Indonesia). Coll. van de Velde, V-1926.

Stephanoscyphus sibogae Leloup, 1937: 67, fig. 43.

Syntypes: two colonies, ZMA COEL. no. 2083.

Type locality: Siboga Exped., stat. 45.

Class HYDROZOA

Order ANTHOMEDUSAE

Family Tubulariidae

Euphysora bigelowi Maas, 1905: 7, pl. 1 (figs. 1-3); Kramp, 1961: 39.

Syntypes: numerous specimens, ZMA COEL. no. 4606.

Type localities: Siboga Exped., stat. 104, 109, 136, 144, 184, 189a, 214. The species is the type of the genus.

Family Bougainvilliidae

Rathkea octonemalis Maas, 1905: 12, pl. 2 (figs. 11-12). *Koellikerina octonemalis*; Kramp, 1961: 85.

Syntypes: 2 specimens, ZMA COEL. no. 2072.

Type localities: Siboga Exped., stat. 136, 182.

Family Calycopsidae

Heterotiara anonyma Maas, 1905: 19, pl. 3 (figs. 19-21); Kramp, 1961: 122.

Syntypes: 2 specimens, ZMA COEL. no. 4497.

Type locality: Siboga Exped., stat. 148. The species is the type of the genus.
Sibogita geometrica Maas, 1905: 17, pl. 3 (figs. 16-18); Kramp, 1961: 124.
Holotype: ZMA COEL. no. 3853.

Type locality: Siboga Exped., stat. 118. The species is the type of the genus.

Order LEPTOMEDUSAE

Family Laodiceidae

Melicertidium malayicum Maas, 1905: 28, pl. 5 (figs. 29-31). *Melicertissa malayica*; Kramp, 1961: 143.

Syntypes: 2 specimens, ZMA COEL. no. 4175.

Type localities: Siboga Exped., stat. 136, 143.

Family Eutimidae

Eutima levuka (Agassiz & Mayer, 1899) var. *ocellata* Maas, 1905: 35, pl. 7 (figs. 43-44). *E. levuka*; Kramp, 1961: 197.

Syntypes: 5 specimens, ZMA COEL. no. 4605.

Type localities: Siboga Exped., stat. 119, 136, 144, 225.

Order LIMNOMEDUSAE

Family Olindiadidae

Olindias phosphorica (della Chiaje, 1841) var. *malayensis* Maas, 1905: 47, pl. 9 (figs. 60-61). *O. malayensis*; Kramp, 1961: 227.

Syntypes: numerous specimens, ZMA COEL. no. 4113, 4114.

Type localities: Siboga Exped., stat. 50, 109, 149, 213.

Family Proboscidactylidae

Proboscidactyla flavicirrata Brandt, 1835 var. *stolonifera* Maas, 1905: 21, pl. 4 (figs. 24-28). *P. ornata*; Kramp, 1961: 235.

Syntypes: numerous specimens.

Type localities: Siboga Exped. stat. 136, 172, 184. The material from these stations is missing, although specimens of this taxon from stat. 50 and stat. 104 are present (ZMA COEL. no. 4000). Apparently the type material is lost, although the possibility of an erroneous record given by Maas (1905) cannot be excluded.

Order NARCOMEDUSAE

Family Aeginidae

Aeginura weberi Maas, 1905: 77, pl. 11 (fig. 73), pl. 12 (fig. 76), pl. 14 (figs. 90-99). *A. grimaldii*; Kramp, 1961: 269.

Syntypes: 3 specimens, ZMA COEL. no. 1934, 4997.

Type locality: Siboga Exped., stat. 143. One specimen is missing.

Order SIPHONOPHORA

Suborder CYSTONECTAE

Family Rhizophysidae

Bathypphysa sibogae Lens & van Riemsdijk, 1908: 114, pl. 20 (fig. 148), pl. 23 (figs. 160-164), pl. 24 (fig. 173); Totton, 1965: 43.

Syntypes: 2 specimens, ZMA COEL. no. 3998, 4918, 4919, 5074.

Type localities: Siboga Exped., stat. 38, 227.

Pterophysa studeri Lens & van Riemsdijk, 1908: 111, pl. 20 (fig. 149), pl. 22 (figs. 153-155, 157-159), pl. 23 (fig. 165), pl. 24 (fig. 171). *Bathypphysa conifera*; Totton, 1965: 43.

Holotype: ZMA COEL. no. 3995, 5072.

Type locality: Siboga Exped., stat. 126.

Suborder PHYSONECTAE

Family Agalmidae

Halistemma cupulifera Lens & van Riemsdijk, 1908: 85, pl. 16 (figs. 116-119); Totton, 1965: 58.

Holotype: ZMA COEL. no. 4516.

Type locality: Siboga Exped., stat. 244.

Erenna bedoti Lens & van Riemsdijk, 1908: 66, pl. 11 (figs. 85-90). *E. richardi*; Totton, 1965: 74.

Holotype: ZMA COEL. no. 4617.

Type locality: Siboga Exped., stat. 210a.

Family Rhodaliidae

Archangelopsis typica Lens & van Riemsdijk, 1908: 91, pl. 17, pl. 18 (figs. 137-140); Totton, 1965: 96.

Syntypes: 2 specimens, ZMA COEL. no. 4921.

Type localities: Siboga Exped., stat. 15, 289. The specimen of stat. 289 is missing. The species is the type of the genus by monotypy.

Suborder CALYCOPHORAE

Family Prayidae

Rosacea villafrancae Carré, 1968: 109, pl. 1 (figs. 1-8), text-figs. 1-3.

Holotype: ZMA COEL. no. 5293.

Type locality: Villefranche-sur-Mer, 11-V-1968.

Family Diphyidae

Galeolaria chuni Lens & van Riemsdijk, 1908: 61, pl. 9 (figs. 78-79). *Sulculeolaria chuni*; Totton, 1965: 150. *Galetta chuni*; Stepanyants, 1973: 655.

Syntypes: 3 specimens, ZMA COEL. no. 4591.

Type localities: Siboga Exped., stat. 168, 194.

Diphyes gegenbauri Lens & van Riemsdijk, 1908: 46, pl. 7 (fig. 57), pl. 8 (fig. 58). *D. bojani*; Moser, 1925: 208.

Syntypes: 5 specimens, ZMA COEL. no. 4679, 4680, 7166.

Type localities: Siboga Exped., stat. 172 (figured specimen), 136, 168, 205.

Diphyes indica Lens & van Riemsdijk, 1908: 44, pl. 7 (fig. 54). *D. bojani*; Moser, 1925: 208.

Syntypes: 14 specimens, ZMA COEL. no. 4677.

Type localities: Siboga Exped., stat. 93, 118, 205, 225, 276.

Diphyes malayani Lens & van Riemsdijk, 1908: 45, pl. 7 (figs. 55-56). *D. bojani*; Moser, 1925: 208.

Syntypes: 4 specimens, ZMA COEL. no. 4676, 7111.

Type localities: Siboga Exped., stat. 117a, 185.

Diphyes nierstraszi Lens & van Riemsdijk, 1908: 43, pl. 7 (fig. 53). *D. dispar*; Moser, 1925: 171.

Syntypes: 49 specimens, ZMA COEL. no. 4674, 4675, 7110.

Type localities: Siboga Exped., stat. 50, 106, 112, 125, 141, 144, 172, 189a, 194, 220.

Diphyopsis anomala Lens & van Riemsdijk, 1908: 54, pl. 8 (fig. 69), pl. 9 (fig. 70). *Diphyes dispar*; Moser, 1925: 171.

Holotype: 1 sup. nectof., ZMA COEL. no. 4678.

Type locality: Siboga Exped., stat. 213.

Diphyopsis weberi Lens & van Riemsdijk, 1908: 53, pl. 8 (figs. 67-68). *Diphyes chamissonis*; Totton, 1965: 156.

Syntypes: 272 specimens, ZMA COEL. no. 4662, 4663, 4664, 4665, 7175.

Type localities: Siboga Exped., stat. 169 (figured specimen), 50, 93, 96, 104, 106, 109, 117a, 136, 144, 146, 149, 165, 168, 169, 172, 174, 184, 205, 282, 315.

Diphyopsis diphyoides Lens & van Riemsdijk, 1908: 51, pl. 8 (figs. 65-66). *Eudoxoides mitra*; Totton, 1965: 188.

Syntypes: 131 specimens, ZMA COEL. no. 4666, 4667, 7176.

Type localities: Siboga Exped., stat. 136 (figured specimen), 106, 109, 117a, 125, 143, 144, 146, 148, 157, 165, 168, 169, 172, 184, 185, 186, 189a, 194, 203, 215a, 220, 221, 225, 245, 276, 304.

Diphyes subtiloides Lens & van Riemsdijk, 1908: 46, pl. 7 (figs. 59-61). *Lensia subtiloides*; Totton, 1965: 159.

Syntypes: 109 specimens, ZMA COEL. no. 4671, 4672, 7108.

Type localities: Siboga Exped., stat. 136 (figured specimen), 168 (figured specimen), 104, 117a, 138, 141, 144, 146, 149, 172, 184, 186, 189a, 194, 220, 229.

Diphyes contorta Lens & van Riemsdijk, 1908: 39, pl. 6 (figs. 48-50). *Che-
lophyes contorta*; Totton, 1965: 187.

Syntypes: 302 specimens, ZMA COEL. no. 4682, 4683.

Type localities: Siboga Exped., stat. 35, 50, 66, 93, 96, 99, 106, 110, 117a, 118, 122, 125, 136, 143, 144, 146, 148, 168, 169, 172, 174, 184, 185, 186, 189a, 194, 203, 213, 215a, 220, 223, 225, 245, 276. Two specimens from stat. 168 are missing.

Family Clausophyidae

Clausophyes galeata Lens & van Riemsdijk, 1908: 12, pl. 1 (figs. 6-8); Totton, 1965: 194.

Holotype: ZMA COEL. no. 4844.

Type locality: Siboga Exped., stat. 118.

Chuniphyes multidentata Lens & van Riemsdijk, 1908: 13, pl. 1 (figs. 9-11), pl. 2 (figs. 12-15); Totton, 1965: 194.

Holotype (one sup. + one inf. nectof.): ZMA COEL. no. 4850.

Type locality: Siboga Exped., stat. 144. The species is the type of the genus.

Family Abylidae

Ceratocymba assymetrica Lens & van Riemsdijk, 1908: 9, pl. 1 (figs. 2-5).

C. leuckarti; Sears, 1953: 67.

- Syntypes: 7 specimens, ZMA COEL. no. 4853, 4854.
Type localities: Siboga Exped., stat. 106, 148, 203, 215a, 220.
Diphyabyla hubrechtii Lens & van Riemsdijk, 1908: 36, pl. 4 (fig. 47). *Ceratocymba sagittata*; Sears, 1953: 63.
Holotype (sup. nectof.): ZMA COEL. no. 4687.
Type locality: Siboga Exped., stat. 42.
Pseudocymba anomala Sears, 1953: 75, fig. 24. *Abyla* spec., pathological specimen; Totton, 1954: 142. (probably *A. trigona*).
Holotype: ZMA COEL. no. 7109.
Type locality: Siboga Exped., stat. 220.
Abyla haeckeli Lens & van Riemsdijk, 1908: 32, pl. 5 (figs. 39-41); Sears, 1953: 39; Totton, 1965: 210.
Syntypes: 4 specimens, ZMA COEL. no. 5013.
Type localities: Siboga Exped., stat. 106, 203, 215a. The material of stat. 203 and 215a (one specimen each) is missing.

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