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## ANNOTATED CATALOGUE OF RECENT ECHINODERM TYPE SPECIMENS IN THE COLLECTION OF THE ZOOLOGISCH MUSEUM AMSTERDAM

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### ABSTRACT

The Amsterdam Museum houses 2,047 type specimens of recent echinoderms representing 441 nominal species, 5 nominal subspecies, and 11 nominal varieties. Each species, subspecies or variety is presented (original name, current status, museum characteristics, brief bibliography, and eventual remarks).

### INTRODUCTION

The echinoderm collection of the Amsterdam Museum is particularly rich in species originating from Indonesian waters, the Caribbean Sea, and the North Sea. Most Indonesian species were collected during the Siboga Expedition (1899-1900) (see Tydeman, 1902; Weber, 1902). These were studied by A.H. Clark (1912a,b,c,d,e, 1918) for the comatulid crinoids, Döderlein (1907) for the stalked crinoids, Sluiter (1901a,b) for the holothuroids, de Meijere (1903, 1904) for the echinoids, Döderlein (1917, 1920, 1921, 1922, 1924, 1935, 1936) for the asteroids, and Koehler (1904, 1905) for the ophiuroids. The whole Siboga collection has been identified except some families of asteroids that still remains to be investigated. Other Indonesian echinoderms housed in Amsterdam mostly come either from the collection of the former Natural History Society of the Dutch East Indies (see Sluiter, 1881, 1888, 1889, 1890) or from the Gier Expedition (see Sluiter, 1914; A.H. Clark, 1933). It

should be mentioned also that the Amsterdam Museum houses some echinoderm specimens (including type specimens) collected by famous scientific expeditions such as the Challenger Expedition, the Danish-Ingolf Expedition, and the Albatross Expedition.

Caribbean echinoderms of the Amsterdam Museum originate mainly from the Netherland Lesser Antilles (i.e., the Islands of Aruba, Curaçao, and Bonaire). They were collected by individual naturalists (see, e.g., Van der Horst, 1924; Hummelinck, 1933) and studied scatteredly by different scientists (see Sluiter, 1910; H.L. Clark, 1922; Engel, 1927, 1939; Ten Broecke, 1927; Van der Horst, 1927; Deichmann, 1963; Parslow and A.M. Clark, 1963; Tikasingh, 1963; Ummels, 1963). As for the North Sea echinoderms, many of them were collected along or off the Dutch coast (see Engel, 1932; Wolff, 1968).

The echinoderm collection of Amsterdam was never revised completely but parts were at the end of last century (see Sluiter 1895a,b,c). In the total the collec-

tion houses 2,047 type specimens of recent echinoderms representing 441 nominal species, 5 nominal subspecies, and 11 nominal varieties: 75 species of crinoids (416 type specimens); 108 species and 2 varieties of holothuroids (311 type specimens); 44 species and 5 varieties of echinoids (219 type specimens); 44 species, 5 subspecies, and 2 varieties of asteroides (101 type specimens); 170 species and 2 varieties of ophiuroids (1,000 type specimens).

### CATALOGUE OF NOMINAL SPECIES, SUBSPECIES AND VARIETIES

The five classes of echinoderms are considered successively. Within each class species are presented according to the alphabetic order of the specific names used in the original description. Main bibliographical references and actual status (when possible) are given for each specific or infraspecific taxon. Other informations are the reference number(s) of the type specimen(s), the number of syntypes, the mode of preservation (dry- or alcohol-preserved), and the origin of specimens (expedition or collector; type locality).

#### Crinoidea

The Amsterdam collection houses type specimens of 75 nominal species of crinoids, viz. 7 stalked crinoids and 68 comatulids. All of them but 1 are from Indonesian waters and were collected by the Siboga Expedition (1899-1900). The remaining species originates from West Australia.

**acuta, Stenometra** A.H. Clark, 1912b : 428  
= *Daidalometra arachnoides* (A.H. Clark, 1909); see A.H. Clark 1918 : 157, pl. 23 fig. 60; A.H. Clark 1950 : 25, pl. 3 fig. 12

**Type specimens**  
ref. ZMA.E2021, lectotype (alcohol), Siboga Expedition, station 297, 10°12'2 S - 124°27'3 E, Timor Sea, 73 m; ref. ZMA.E2017, topotypes (alcohol), same origin

**acutus, Metacrinus** Döderlein, 1907 : 35, pl. 10 figs 1-16, pl. 11 figs 6-8, pl. 12 figs 6-13, pl. 14 figs 3 & 11-15, pl. 16 figs 1-2, pl. 19 fig. 1  
= *Saracrinus angulatus* (P.H. Carpenter, 1884); see Roux 1981 : 484

**Type specimens**  
ref. ZMA.E2069, 1 syntype (alcohol), Siboga Expedition, station 251, 5°28'4 S - 132°0'2 E, Kei Islands, 204 m; ref. ZMA.E2070, 10 syntypes (alcohol), Siboga Expedition, station 253, 5°48'2 S - 132°13' E, Kei Islands, 304 m

**alcyon, Thaumatometra** A.H. Clark, 1912a : 148; A.H. Clark 1918 : 251 (as *Nepiometra*)  
= *Fariometra alcyon* (A.H. Clark, 1912); see A.H. Clark & A.M. Clark 1967 : 736

#### Type specimen

ref. ZMA.E2073, holotype (alcohol), Siboga Expedition, station 251, 5°28'4 S - 132°0'2 E, Arafura Sea, 204 m

**anomala, Psathyrometra** A.H. Clark, 1912a : see also A.H. Clark 1918 : 230, pl. 26 fig. 90; A.H. Clark & A.M. Clark 1967 : 527

#### Type specimen

ref. ZMA.E2096, holotype (alcohol), Siboga Expedition, station 211, 5°40'7 S - 120°45'5 E, Banda Sea, 1158 m

**anomalus, Atelecrinus** A.H. Clark, 1912a : 153; see also A.H. Clark 1918 : 269, textfig. 17

= *Sibogacrinus anomalus* (A.H. Clark, 1912); see A.H. Clark & A.M. Clark 1967 : 833

#### Type specimen

ref. ZMA.E2099, holotype (alcohol), Siboga Expedition, station 177, 2°24'5 S - 120°38'0 E, Ceram Sea, 1633 m

#### Remark

*S. anomalus* is the type species of the genus *Sibogacrinus*

**aphrodite, Iridometra (Eumetra)** A.H. Clark, 1912a : 137

= *Eumetra aphrodite* (A.H. Clark, 1912); see A.H. Clark 1918 : 213, pl. 25 fig. 76; A.H. Clark & A.M. Clark 1967 : 80

#### Type specimens

ref. ZMA.E2106/1, 35 syntypes (alcohol), Siboga Expedition, station 294, 10°12'2 S - 124°27'3 E, Timor Sea, 73 m

**australis, Cominia** A.H. Clark, 1912c : 21

= *Comatulides australis* (A.H. Clark, 1912); see A.H. Clark 1918 : 32, pl. 15 f figs 21-22; A.H. Clark, 1931 : 403, pl. 45 figs 138-139

#### Type specimen :

ref. ZMA.E1313, holotype (alcohol), Siboga Expedition, station 297, 10°39'0 S - 123°40'0 E, 520 m

**brevipes, Trichometra** A.H. Clark, 1912a : 147

= *Tonrometra brevipes* (A.H. Clark, 1912); see A.H. Clark 1918 : 258, pl. 26 fig. 92; A.H. Clark & A.M. Clark 1967 : 683

#### Type specimen

ref. ZMA.E2086, holotype (alcohol), Siboga Expedition, station 150, 0°6' N - 129°7'2 E, Halmahera Sea, 1089 m

**clymene, Dorometra** A.H. Clark, 1918 : 217; A.H. Clark & A.M. Clark 1967 : 68, textfigs 3a-c

#### Type specimen

ref. ZMA.E2112, holotype (alcohol), Siboga Expedition, station 167, 2°35'5 S - 131°26'2 E, Ceram Sea, 95 m

**clymene, Namometra** A.H. Clark, 1912a : 143; see also A.H. Clark 1918 : 237, pl. 26 fig. 84; A.H. Clark & A.M. Clark 1967 : 475, textfigs 23a-b

#### Type specimen

ref. ZMA.E2072/1, holotype (alcohol), Siboga Expedition, station 253, 5°48'2 S - 132°13'0 E, Arafura Sea, 304 m

**crassicirra, Comanthus** A.H. Clark, 1912c : 23

= *Oxycomanthus bennetti* (Müller, 1841); see A.H. Clark 1918 : 51 (as *Comanthus bennetti*); Rowe *et al.* 1986 : 259, figs 3B & 9D

#### Type specimen

ref. ZMA.E2113, holotype (alcohol), Siboga Expedition, station 133, Lirung (Saibabu Island), down to 36 m

**diana, Calometra** A.H. Clark, 1912b : 422

= *Neometra diana* (A.H. Clark, 1912); see A.H. Clark 1918 : 133, pl. 22 figs

55-56; A.H. Clark 1947 : 360, pl. 37 figs 195-196.

**Type specimens**

ref. ZMA.E2020, lectotype (alcohol), Siboga Expedition, station 294, 10°12'2 S - 124°27'3 E, South of Timor, 73 m; ref. ZMA.E2016, 5 topotypes (alcohol), same origin

**dione, Fariometra** A.H. Clark, 1918 : 250, pl. 26 fig. 85; see also A.H. Clark & A.M. Clark 1967 : 734

**Type specimen**

ref. ZMA.E2063, holotype (alcohol), Siboga Expedition, station 85, 0°36'5 S - 119°29'5 E, Makassar Strait, 724 m

**fragilis, Pachylometra** A.H. Clark, 1912d : 79

= *Monachometra fragilis* (A.H. Clark, 1912); see A.H. Clark 1918 : 185, pl. 24 figs 68-69; A.H. Clark 1950 : 219, pl. 20 figs 62-63

**Type specimen**

ref. ZMA.E2071, holotype (alcohol), Siboga Expedition, station 166, 2°28'5 S - 131°3'3 E, Halmahera Sea, 118 m

**gorgonia, Perissometra** A.H. Clark, 1918 : 179

= *Glyptometra crassa* (A.H. Clark, 1912); see A.H. Clark 1950 : 237, pl. 21, fig. 68

**Type specimens**

ref. ZMA.E2076, 2 syntypes (alcohol), Siboga Expedition, station 294, 10°12'2 S - 124°27' E, Timor Sea, 73 m

**gracilicirra, Capillaster** A.H. Clark 1912c : 18; see also A.H. Clark 1918 : 11, pl. 11 fig. 3; A.H. Clark 1931 : 169, pl. 9 fig. 27

**Type specimen**

ref. ZMA.E2091/1, holotype (alcohol), Siboga Expedition, station 320, 6°5' S - 114°7' E, 82 m

**gracilipes, Comissia** A.H. Clark, 1912c : 19; see also A.H. Clark 1918 : 22, pl. 13 figs 10-11; A.H. Clark 1931 : 265, pl. 28 figs 75-76

**Type specimens**

ref. ZMA.E2593, 2 syntypes (alcohol), Siboga Expedition, station 267, 5°54' S - 132°56'7 E, 984 m

**gracilis, Cyllometra** A.H. Clark, 1912e : 35; see also A.H. Clark 1918 : 115, pl. 20 fig. 48; A.H. Clark 1947 : 169, pl. 18 figs. 88-90, pl. 19 fig. 97

**Type specimens**

ref. ZMA.E2001, 7 syntypes (alcohol), Siboga Expedition, station 49a, 8°23'5 S - 119°4'6 E, 69 m

**gracilis, Iridometra** A.H. Clark, 1912a : 138; see also A.H. Clark 1918 : 215 (as *Dorometra*)

= *Dorometra nana* (Hartlaub, 1890); see A.H. Clark & A.M. Clark 1967 : 71, textfig. 3d

**Type specimen**

ref. ZMA.E2111, 2 syntypes (instead of 1 as Clark mentioned) (alcohol), Siboga Expedition, station 220, Pasin Pandjang (Western coast of Binongka), 54 m

**helene, Cosmiometra** A.H. Clark, 1912b : 427

= *Cosmiometra philippinensis* A.H. Clark, 1911; see A.H. Clark 1918 : 155, pl. 23 fig. 61; A.H. Clark 1950 : 52, pl. 5 fig. 16, pl. 6 fig. 22

**Type specimen**

ref. ZMA.E2025, holotype (alcohol), Siboga Expedition, station 253, 5°48'2 S - 132°13' E, Arafura Sea, 304 m

**helius, Pachylometra** A.H. Clark, 1912d : 78; see also A.H. Clark 1918 : 175, pl. 24 fig. 67 (as *Crossometra*)

= *Glyptometra investigatoris* (A.H. Clark, 1909); see A.H. Clark 1950 : 254,

pl. 24 figs. 74-75, pl. 25 figs 76-78

**Type specimens**

ref. ZMA.E2103, 4 syntypes (alcohol), Siboga Expedition, station 254, 5°40' S - 132°26' E 310 m

**inusitata, Psathyrometra** A.H. Clark, 1912a : 141; see also A.H. Clark 1918 : 229, textfig 13, pl. 26 figs 88-89

= *Psathyrometra mira* A.H. Clark, 1909; see A.H. Clark and A.M. Clark 1967 : 519

**Type specimen**

ref. ZMA.E2084, holotype (alcohol), Siboga Expedition, station 45, 7°24' S - 118°15'2 E, Florès Sea, 794 m

**io, Nepiometra** A.H. Clark, 1918 : 252, pl. 26 fig. 97

= *Fariometra io* (A.H. Clark, 1918); see A.H. Clark and A.M. Clark 1967 : 729, textfig. 45

**Type specimen**

ref. ZMA.E2074, holotype (alcohol), Siboga Expedition, station 211, 5°40'7 S - 120°45'5 E Banda Sea, 1158 m

**Remark**

The name *Trichometra delicata* originally proposed by A.H. Clark (1912a : 146) for the species *Nepiometra io* was preoccupied (it had been already proposed for an Atlantic species of comatulid described by A.H. Clark himself in 1911, p. 258)

**iris, Compsometra** A.H. Clark, 1912a : 131; see also A.H. Clark 1918 : 208, pl. 25 figs 77-78

= *Antedon iris* (A.H. Clark, 1912); see A.H. Clark and A.M. Clark 1967 : 151, textfig. 9d; A.M. Clark and Rowe 1971 : 10 and 26 (distribution and key)

**Type specimen**

ref. ZMA.E1350, holotype (alcohol), Siboga Expedition, station 144, N. of Salomakiee (Damar) Island, 45 m

**junceus, Eudiocrinus** A.H. Clark, 1912c : 25; see also A.H. Clark 1918 : 65, textfig. 3, pl. 17 figs 31-32; A.H. Clark 1941 : 149, pl. 10, figs 35-36

**Type specimens**

ref. ZMA.E2109, 6 syntypes (alcohol), Siboga Expedition, station 167, 2°35'5 S - 131°26'2 E, 95 m

**laevipinna, Prometra** A.H. Clark, 1912e : 37

= *Decametra laevipinna* (A.H. Clark, 1912); see A.H. Clark 1918 : 120, pl. 20 figs 42-43; A.H. Clark 1947 : 197, pl. 22 fig. 109, pl. 25, figs 129 and 132; A.M. Clark and Rowe 1971 : 10 and 20 (distribution and key)

**Type specimen**

ref. ZMA.E2030, holotype (alcohol), Siboga Expedition, station 213, Salayer, on reef

**littoralis, Comissia** A.H. Clark, 1912c : 18; see also A.H. Clark 1918 : 21, pl. 12 figs 7-8; A.H. Clark 1931 : 256, pl. 25 figs 71-72; A.M. Clark and Rowe 1971 : 4 and 14 (distribution and key)

**Type specimen**

ref. ZMA.E1327, 1 syntype (alcohol), Siboga Expedition, station 129, off Kawie and Kamboling Islands (Karkaralong Group), on reef

**longicirra, Compsometra** A.H. Clark, 1912a : 134; see also A.H. Clark 1918 : 206, pl. 25 figs 74, 75, 79

= *Antedon longicirra* (A.H. Clark, 1912) see A.H. Clark and A.M. Clark 1967 : 145, textfig. 9a; A.M. Clark and Rowe 1971 : 10 and 26 (distribution and key)

**Type specimens**

ref. ZMA.E2104 6 syntypes (alcohol), Siboga Expedition, station 167, 2°35'5 S - 131°26'2 E, Ceram Sea, 95 m

**magna, Thalassometra** A.H. Clark, 1912b : 425

= *Oceanometra magna* (A.H. Clark, 1912); see A.H. Clark 1918 : 151, pl. 22

fig. 57; A.H. Clark 1950 : 142, pl. 114 figs 42-43

**Type specimen**

ref. ZMA.E2015, holotype (alcohol), Siboga Expedition, station 251, 5°28'.4 S - 132°04.2 E, Arafura Sea, 204 m

**major, Psathyrometra** A.H. Clark, 1912a : 140; see also A.H. Clark 1918 : 227, textfig. 12, pl. 26 fig. 87

= *Psathyrometra mira* A.H. Clark, 1909; A.H. Clark and A.M. Clark 1967 : 519

**Type specimen**

ref. ZMA.E2082, holotype (alcohol), Siboga Expedition, station 45, 7°24' S - 118°15'.2 E, Florès Sea, 794 m

**margaritifera, Thalassometra** A.H. Clark, 1912b : 426; see also A.H. Clark 1918 : 169, pl. 22 fig. 58; A.H. Clark 1950 : 168

**Type specimens**

ref. ZMA.E2064, 2 syntypes (alcohol), Siboga Expedition, station 45, 7°24' S - 118°15'.2 E, Florès Sea, 794 m

**marginalis, Thalassometra** A.H. Clark, 1912b : 424; see also A.H. Clark 1918 : 150, pl. 23 fig. 62 (as *Crotalometra*)

= *Crotalometra rustica* A.H. Clark, 1909; see A.H. Clark 1950 : 92, pl. 11 figs 35-36, pl. 18 fig. 58

**Type specimens**

ref. ZMA.E2014, 1 topotype (alcohol), Siboga Expedition, station 226, Mid-Channel between the Lucipara and Schildpad Islands, 1595 m; ref. ZMA.E2027, lectotype (alcohol), same origin

**minima, Prometra** A.H. Clark, 1912e : 38

= *Decametra minima* (A.H. Clark, 1912); see A.H. Clark 1918 : 121, pl. 20 fig. 45; A.H. Clark 1947 : 196, pl. 25 fig. 131

**Type specimens**

ref. ZMA.E2018, lectotype (alcohol), Siboga Expedition, station 117, 1°0'.5 N - 122°56' E (Kwangang Bay entrance), 80 m; ref. ZMA.E2019, 21 topotypes (alcohol), same origin

**minima, Psathyrometra** A.H. Clark, 1912a : 141; see also A.H. Clark 1918 : 228, pl. 26 fig. 91; A.H. Clark and A.M. Clark 1967 : 526, textfig. 26

**Type specimen**

ref. ZMA.E2083, holotype (alcohol), Siboga Expedition, station 48, 8°4'.7 S - 118°44'.3 E, Florès Sea, 2060 m

**moluccana, Antedon** A.H. Clark 1912a : 129

= *Euantedon moluccana* (A.H. Clark 1912); see A.H. Clark 1918 : 201, pl. 25 figs 72-73; A.H. Clark and A.M. Clark 1967 : 102

**Type specimen**

ref. ZMA.E2110, holotype (alcohol), Siboga Expedition, station 139, 0°11' S - 1127°25' E, Molucca Passage, 397 m

**Remark**

*A. moluccana* is the type species of the genus *Euantedon*

**mylitta, Decametra** A.H. Clark 1912e : 36; see also A.H. Clark 1918 : 118 pl. 20 fig. 50; A.H. Clark 1947 : 188, pl. 22 fig. 110, pl. 23 figs 116-117, pl. 24 fig. 118; A.M. Clark and Rowe 1971 : 10 and 20 (distribution and key)

**Type specimens**

ref. ZMA.E2002, 4 syntypes (alcohol), Siboga Expedition, station 99, 6°7'.5 N - 120°26' E, North-Ubian Island, 16-23 m

**nodipes, Bathycrinus** Döderlein, 1907 : 9, textfigs 2-3, pl. 1 figs 2-4, pl. 3 figs 1-2, pl. 4 figs 1-5, pl. 5 figs 1-4, pl. 6 figs 1-3

= *Democrinus nodipes* (Döderlein, 1907); see Gislén 1938 : 28

**Type specimens**

ref. ZMA.E2093, 1 syntype (alcohol), Siboga Expedition, station 241,

4°24'.3 S - 129°49'.3 E, Banda Sea, 1570 m; ref. ZMA.E2094, s syntypes (alcohol), Siboga Expedition, station 88, 0°34'.6 N - 119°8'.5 E, Makassar Strait, 1301 m; ref. ZMA.E2095, fragments (alcohol), Siboga Expedition, station 211, 5°40'.7 S - 120°45'.5 E, 1158 m; ref. ZMA.E1351 fragments (alcohol), same origin as 2095

**occidentalis, Aporometra** H.L. Clark, 1938 : 43; see also A.H. Clark and A.M. Clark 1967 : 32

**Type specimen**

ref. ZMA.E2100, 1 paratype (alcohol), Bunbury (Koombana Bay, W. Australia), 7-8 fathoms, leg. Mus. Harvard

**ornatissimus, Strotometra** A.H. Clark 1912d : 82; see also A.H. Clark 1918 : 192, textfig. 10-11, pl. 24 fig. 70; A.H. Clark 1950 : 362, pl. 20 fig. 65

**Type specimen**

ref. ZMA.E2088, holotype (alcohol), Siboga Expedition, station 122, 1°58'.5 N - 125°0'.5 E, Celebes Sea, 1165-1264 m

**parva, Prometra** A.H. Clark, 1912e : 39

= *Decametra parva* (A.H. Clark, 1912); see A.H. Clark 1918 : 121, pl. 20 fig. 46; A.H. Clark 1947 : 195, pl. 22 fig. 113; A.M. Clark and Rowe 1971 : 10 and 20 (distribution and key)

**Type specimens**

ref. ZMA.E2061, 1, 2 syntypes (alcohol), Siboga Expedition, station 315, E. of Sailus Besar (Paternoster Islands), up to 36 fathoms

**paviflora, Compsometra** A.H. Clark, 1912a : 133; see also A.H. Clark 1918 : 207, pl. 25 figs 80-81

= *Antedon parviflora* (A.H. Clark, 1912); see A.H. Clark and A.M. Clark 1967 : 147, textfigs 9b-c; A.M. Clark and Rowe 1971 : 10 and 26 (distribution and key)

**Type specimens**

ref. ZMA.E1365, 42 syntypes (alcohol), Siboga Expedition, station 50, Badjo Bay (W. coast of Florès), reef

**parvula, Comissia** A.H. Clark, 1912c : 19; see also A.H. Clark 1918 : 23, pl. 13 fig. 9; A.H. Clark 1931 : 262, pl. 28 fig. 77

**Type specimens**

ref. ZMA.E2596, 1 syntype (alcohol), Siboga Expedition, station 95, 5°43'.5 N - 119°40' E, 522 m; ref. ZMA.E2597, 2 syntypes (alcohol), Siboga Expedition, station 105, 6°8' N - 121°19' E m; ref. ZMA.E2598, 2 syntypes (alcohol), Siboga Expedition, station 294, 1°12'.2 S - 124°27'.3 E, 73 m; ref. ZMA.E2595, 2 syntypes (alcohol), Siboga Expedition, station 302, 10°27'.9 S - 123°28'.7 E, 216 m; ref. ZMA.E1335, 1 syntype (alcohol), Siboga Expedition, label not legible

**perplexa, Thalassometra** A.H. Clark, 1912b : 426

= *Stiremetra perplexa* (A.H. Clark, 1912); see A.H. Clark 1918 : 161, pl. 23 fig. 61; A.H. Clark 1950 : 129, pl. 14 fig. 44

**Type specimen**

ref. ZMA.E2024, holotypes (alcohol), Siboga Expedition, station 211 5°40'.7 S - 120°45'.5 E, Banda Sea, 1158 m

**pinnatus, Eudiocrinus** A.H. Clark, 1912c : 27; see also A.H. Clark 1918 : 67, textfig. 4, pl. 17 fig. 30; A.H. Clark 1941 : 153, pl. 11 fig. 39

**Type specimen**

ref. ZMA.E2108, holotype (alcohol), Siboga Expedition, station 310, 8°30' S - 119°7'.5 E, 73 m

**poculum, Bathycrinus** Döderlein, 1907 : 12, pl. 1 fig. 4f, pl. 2 figs 2-2d, pl. 6 fig. 4

= *Democrinus poculum* (Döderlein, 1907); see Gislén 1938 : 29

**Type specimen**

ref. ZMA.E2092, holotype (alcohol), Siboga Expedition, station 241, 4°24'3 S - 129°49'3 E, 1570 m

**priamus, Strotometra** A.H. Clark, 1912d : 81; see also A.H. Clark 1918 : 194, pl. 24 figs 64-65; A.H. Clark 1950 : 363, pl. 31 fig. 97

**Type specimens**

ref. ZMA.E2089, 39 syntypes (alcohol), Siboga Expedition, station 266, 5°56'5 S - 132°49'7 E, Arafura Sea, 595 m; ref. ZMA.E2090, 1 syntype (alcohol), Siboga Expedition, station 297, 10°39'S - 123°40'E, 520 m

**propinqua, Amphimetra** A.H. Clark, 1912e : 31

= *Heterometra propinqua* (A.H. Clark, 1912); see A.H. Clark 1918 : 80, pl. 18 figs 33-34; A.H. Clark 1941 : 277, pl. 25 figs 97-100.

**Type specimens**

ref. ZMA.E2116/1, 6 syntypes (alcohol), Siboga Expedition, station 318, 6°36'5 S - 114°55'5 E, 88 m

**pulcher, Comaster** A.H. Clark, 1912c : 22; see also A.H. Clark 1918 : 40, pl. 14 figs 14-15; A.H. Clark 1931 : 443, pl. 50 figs 148-149; A.M. Clark and Rowe 1971 : 6 and 16 (distribution and key)

**Type specimen**

ref. ZMA.E2114, holotype (alcohol), Siboga Expedition, station 257, Du-roa Strait (Kei Islands), up to 52 m

**punctata, Zygometra** A.H. Clark, 1912c : 24; see also A.H. Clark 1918 : 19, figs 40-41; A.H. Clark : 120, pl. 6 figs. 18-21; A.M. Clark and Rowe 1971 : 6 and 17 (distribution and key)

**Type specimens**

ref. ZMA.E1308, 4 syntypes (alcohol), Siboga Expedition, station 272, Pulu Jedan (Aru Islands), 13 m

**purpurea, Toxometra** A.H. Clark, 1912a : 138

= *Toxometra paupera* (A.H. Clark, 1911); see A.H. Clark 1918 : 210; A.H. Clark and A.M. Clark 1967 : 58

**Type specimen**

ref. ZMA.E2075, 1, holotype (alcohol), Siboga Expedition, station 96, South-eastern side of the Pearl Bank (Sulu Archipelago), 15 m

**rotula, Comantheria** A.H. Clark, 1912c : 23; see also A.H. Clark 1918 : 45, pl. 16 fig. 26; A.H. Clark 1931 : 503, pl. 58 fig. 165; A.M. Clark and Rowe 1971 : 6 and 16 (distribution and key)

**Type specimens**

ref. ZMA.E1319, 1 syntype (alcohol), Siboga Expedition, station 273, off Pulu Jedan (Aru Islands), 15 m; ref. ZMA.E1321, 3 syntypes (alcohol), same origin; ref. ZMA.E1339, 1 syntype (alcohol), same origin

**rugosa, Chondrometra** A.H. Clark, 1918 : 188, textfig. 8; see also A.H. Clark 1950 : 206

**Type specimen**

ref. ZMA.E2101, holotype (alcohol), Siboga Expedition, station 297, 10°39' S - 123°40' E, Timor Sea, 520 m

**scutifera, Fariometra** A.H. Clark, 1918 : 249, pl. 26 fig. 93; A.H. Clark and A.M. Clark 1967 : 724

**Type specimen**

ref. ZMA.E2060, 1 syntype (alcohol), Siboga Expedition, station 119, 1°33'5 N - 124°41' E, Celebes Sea, 1901 m

**serratus, Metacrinus** Döderlein, 1907 : 37, pl. 11 fig. 5, pl. 12 figs 3-5, pl. 14 fig. 10, pl. 17 fig. 2; see also Roux 1981 : 500, pl. 13, pl. 14 figs 1-6 and 10-13

**Type specimens**

ref. ZMA.E2067, 2 syntypes, Siboga Expedition, station 95, 5°43'5 N - 119°40' E, Sulu Sea, 522 m

**sibogae, Atopocrinus** A.H. Clark, 1912a : 151; see also A.H. Clark 1918 : 263, textfig. 15, pl. 26 fig. 59; A.H. Clark and A.M. Clark 1967 : 814

**Type specimen**

ref. ZMA.E2097, holotype (alcohol), Siboga Expedition, station 177, 2°24'5 S - 129°38'5 E, Ceram Sea, 1633 m

**Remark**

*A. sibogae* is the type species of the genus *Atopocrinus*

**sibogae, Comaster** A.H. Clark, 1912c : 21; see also A.H. Clark 1918 : 40, pl. 14 fig. 17; A.H. Clark 1931 : 442, pl. 51 fig. 152

**Type specimen**

ref. ZMA.E2115, holotype (alcohol), Siboga Expedition, station 318, 6°36'5 S - 114°55'5 E, 88 m

**sibogae, Isocrinus** Döderlein, 1907 : 18 pl. 9 fig. 1 pl. 13 fig. 12 = *Diplocrinus sibogae* (Döderlein, 1907); see A.H. Clark 1923 : 12

**Type specimen**

ref. ZMA.E2066, holotype (alcohol), Siboga Expedition, station 297, 10°39' S - 123°4' E, Timor Sea, 520 m

**sibogae, Neometra** A.H. Clark, 1912b : 421; see also A.H. Clark 1918 : 135, pl. 21 figs 51-52; A.H. Clark 1957 : 358, pl. 38 figs 197-198

**Type specimens**

ref. ZMA.E2022, lectotype (alcohol), Siboga Expedition, station 305, mid-channel in Solor Strait (off Kampong Menanga), 113 m; ref. ZMA.E2023, 3 topotypes (alcohol), same origin

**spinossissima, Comissia** A.H. Clark, 1912c : 20; see also A.H. Clark 1918 : 21, pl. 13 figs 12-13; A.H. Clark 1931 : 259, pl. 27, figs 73-74

**Type specimen**

ref. ZMA.E1328, 1 syntype (alcohol), Siboga Expedition, station 305, mid-channel in Solor Strait (off Kampong Menanga), 113 m

**sulcata, Crotalometra** A.H. Clark, 1912b : 427

= *Aglaometra, sulcata* (A.H. Clark, 1912); see A.H. Clark 1918 : 164, pl. 21 fig. 53; A.H. Clark 1950 : 118, pl. 13 fig. 40

**Type specimen**

ref. ZMA.E2026, holotype (alcohol), Siboga Expedition, station 1611, 1°10'5 S - 130°9' E, Halmahera Sea, 798 m

**sulcatus, Atelecrinus** A.H. Clark, 1912a : 152; see also A.H. Clark 1918 : 267, textfig. 16, pl. 26 fig. 94

= *Atelecrinus wyvilli* P.H. Carpenter, 1882; see A.H. Clark and A.M. Clark 1967 : 820, textfig. 52

**Type specimen**

ref. ZMA.E2098, holotype (alcohol), Siboga Expedition, station 85, 0°36'5 S - 119°29'5 E, Makassar Strait, 724 m

**suluensis, Metacrinus** Döderlein, 1907 : 47, pl. 11 fig. 10, pl. 13 fig. 6, pl. 17 fig. 1

= *Saracrinus suluensis* (Döderlein, 1907); see Roux 1981 : 484

**Type specimen**

ref. ZMA.E2068, holotype (alcohol), Siboga Expedition, station 97, 5°48'7 N - 119°49'6 E, Sulu Sea, 564 m

**tenuicirra, Capillaster** A.H. Clark, 1912c : 18; see also A.H. Clark 1918 : 12, pl. 12 fig. 6; A.H. Clark 1931 : 209, pl. 15 fig. 37

**Type specimen**

ref. ZMA.E2003, 16 syntypes (alcohol), Siboga Expedition, station 320, 6°5

S - 114°7' E, 82 m

**tenuicirra, Comatula** A.H. Clark, 1912c : 20; A.H. Clark 1931 : 372, pl. 39 fig. 110

**Type specimens**

ref. ZMA.E2102/1, 1 syntype (alcohol), Siboga Expedition, station 320, 6°5' S - 114°7' E, 82 m; ref. ZMA.E2102/2, 4 syntypes (alcohol), same origin

**tenuicirra, Dichrometra** A.H. Clark, 1912e : 34; see also A.H. Clark 1918 : 105, textfig. 5, pl. 19 fig. 39; A.H. Clark 1941 : 556, pl. 50 fig. 275; A.M. Clark and Rowe 1971 : 8 and 24 (distribution and key)

**Type specimens**

ref. ZMA.E1348, 14 syntypes (alcohol), Siboga Expedition, station 320, 6°5' S - 114°7' E, 82 m; ref. ZMA.E2065, 3 syntypes (alcohol), same origin

**tenuicirra, Selenometra** A.H. Clark, 1912e : 32

= *Oxymetra tenuicirra* (A.H. Clark, 1912); see A.H. Clark 1918 : 99, pl. 13 figs 37-38; A.H. Clark 1941 : 401, pl. 43 figs 195-106

**Type specimen**

ref. ZMA.E2059, holotype (alcohol), Siboga Expedition, station 320, 6°5' S - 115°7' E, 82 m

**tenuipes, Mariametra** A.H. Clark, 1912e : 32; see also A.H. Clark 1918 : 110, pl. 20 fig. 47; A.H. Clark 1941 : 582, pl. 6 fig. 282

**Type specimen**

ref. ZMA.E2058, holotype (alcohol), Siboga Expedition, station 294, 10°12'2" S - 124°27'3" E, 73 m

**thysbe, Thaumatometra** A.H. Clark, 1912a : 149; see also A.H. Clark 1918 : 257; A.H. Clark and A.M. Clark 1967 : 755

**Type specimen**

ref. ZMA.E2087/1, holotype (alcohol), Siboga Expedition, station 52, 9°3'4" S - 119°56'7" E, Savu Sea, 959 m

**timorensis, Glyptometra** A.H. Clark, 1912d : 80; see also A.H. Clark 1918 : 182, textfig 7, pl. 24 fig. 71 (as *Perissometra*); A.H. Clark 1950 : 230, pl. 21 figs 66-67 (as *Glyptometra*)

**Type specimens**

ref. ZMA.E2075, 3 syntypes (alcohol), Siboga Expedition, station 297, 10°39' S - 123°40' E, Timor Sea, 520 m

**tuberculata, Mariametra** A.H. Clark 1912e : 33; see also A.H. Clark 1918 : 108, pl. 20 fig. 44; A.H. Clark 1941 : 580, pl. 61 fig. 281

**Type specimen**

ref. ZMA.E2062, holotype (alcohol), Siboga Expedition, station 51, Molo Strait, 69-91 m

**venusta, Pterometra** A.H. Clark, 1912b : 424; A.H. Clark 1918 : 143, pl. 22 fig. 59; A.H. Clark 1947 : 418, pl. 40 fig. 220; A.M. Clark and Rowe 1971 : 10 and 25 (distribution and key)

**Type specimens**

ref. ZMA.E2081, 4 syntypes (alcohol), Siboga Expedition, station 117, Entrance to Kwadang Bay (Celebes), 80 m

**venustus, Eudiocrinus** A.H. Clark, 1912c : 27 see also A.H. Clark 1918 : 68, pl. 17 figs 27-28; A.H. Clark 1941 : 160, pl. 12 figs 45-46

**Type specimens**

ref. ZMA.E2107/1, 3 syntypes (alcohol), Siboga Expedition, station 289, 9°0'3" S - 126°24'5" E, 112 m

**vera, Crotalometra** A.H. Clark, 1912b : 427; see also A.H. Clark 1918 : 165, pl. 21 fig. 54 (as *Aglometra*)

= *Aglometra propinqua* (A.H. Clark, 1911); see A.H. Clark 1950 : 116, pl. 15 fig. 47

**Type specimen**

ref. ZMA.E2028, lectotype (alcohol), Siboga Expedition, station 173, 3°27' S - 131°0'5" E, Ceram Sea, 567 m

**weberi, Comantheria** A.H. Clark, 1912c : 22; see also A.H. Clark 1918 : 46, pl. 16, fig. 24; A.H. Clark 1931 : 505, pl. 58 fig. 166

**Type specimen**

ref. ZMA.E1320, holotype (alcohol), Siboga Expedition, station 49a, 8°23'5" S - 119°4'6" E, 69 m

**weberi, Rhizocrinus** Döderlein, 1907 : 15, pl. 1 figs. 6-11, pl. 2 figs 3-5, pl. 6 figs 7-11, pl. 7 figs 1-4, pl. 8 figs 1-4

= *Democrinus weberi* (Döderlein, 1907); see A.H. Clark 1917 : 392

**Type specimens**

ref. ZMA.E2031, 2 syntypes (alcohol), Siboga Expedition, station 284, 8°43'1" S - 127°16'7" E, Timor Sea, 828 m; ref. ZMA.E2032, 1 syntype (alcohol), Siboga Expedition, station 173, 3°27' N - 131°0'5" E, Ceram Sea, 5567 m; ref. ZMA.E2033, 1 syntype (alcohol), Siboga Expedition, station 297, 10°39' S - 123°40' E, Timor Sea, 520 m; ref. ZMA.E2077, 1 syntype (alcohol), Siboga Expedition, station 105, 6°8' N - 121°19' E, Sulu Sea, 275 m; ref. ZMA.E2078, 1 syntype (alcohol), Siboga Expedition, station 94, 5°11'2" N - 119°35'4" E, Sulu Sea, 450 m; ref. ZMA.E2079, 2 syntypes (alcohol), Siboga Expedition, station 289, 9°0'3" S - 126°24'5" E, Timor Sea, 112 m; ref. ZMA.E2080, 1 syntype (alcohol), Siboga Expedition, station 295, 10°35'6" S - 124°11'7" E, Timor Sea, 2050 m

## Holothuroidea

The Amsterdam collection houses type specimens of 108 nominal species and 2 nominal varieties of holothuroids. Most of them are from Indonesian waters where they were collected either by the Siboga Expedition (types of 78 species and 2 varieties), the Gier Expedition (types of 7 species), or by individual naturalists, mostly by Sluiter (types of 11 species). Other species originate either from deep parts of the Indopacific Ocean (Challenger Expedition; types of 9 species), the Bay of Biscay (Caudan Expedition; types of 2 species), or the coast of Brittany (types of 1 species).

**abstrusus, Ilyodaemon** Sluiter, 1901a : 24; see also Sluiter 1901b : 69, pl. 4 figs 1-3, pl. 9 figs 9a-e

= *Benthogone abstrusus* (Sluiter, 1901); see Hansen 1975, textfig. 18

**Type specimens**

ref. ZMA.E1001, 1 syntype (alcohol), Siboga Expedition, station 286, 8°50'2" S - 127°2'2" E, 883 m (specimen figured by Sluiter 1901b : pl. 4 figs 1-3); ref. ZMA.E1037, 1 syntype (alcohol), Siboga Expedition, station 52, 9°3'4" S - 119°56'7" E, 959 m; ref. ZMA.E1040, 3 syntypes (alcohol), Siboga Expedition, station 300, 10°48'6" S - 123°23'1" E, 918 m; ref. ZMA.E1042, 18 syntypes (alcohol), Siboga Expedition, station 45, 7°24' S - 118°15'2" E, 794 m; ref. ZMA.E1043, 10 syntypes (alcohol), Siboga Expedition, station 314, 7°36' S - 117°30'8" E, 694 m

**albopunctata, Chondrocloea** Sluiter, 1901b : 127

= *Synaptula striata* (Sluiter, 1901); see Heding 1928 : 168

**Type specimens**

ref. ZMA.E1058/1, 1 syntype (alcohol), Siboga Expedition, station 213, Saleyer, reef; ref. ZMA.E1058/2, 2 syntypes (alcohol), same origin

**apneumona, Pseudocucumis** Heding, 1934 : 456, textfigs 1-2, pl. 16; see also Heding 1942 : 412, figs 3,6,7

= *Staurucucumis nocturna* (Sluiter, 1901); see H.L. Clark and Deichmann 1936 : 564; Cherbonnier and Féral 1981 : 399, textfigs 26A-L

**Type specimen**

ref. ZMA.E1073, holotype (alcohol), Siboga Expedition, station 284, 8°43'1S-127°16'7W, 828 m

**Remark**

the specimen was identified *Cucumaria nocturna* by Sluiter (1901b:92) (see that species)

**aspera, Chondrocloea** Sluiter, 1901b : 128, pl. 10 figs 12a-b

= *Synaptula aspera* (Sluiter, 1901), see Heding 1928 : 163

**Type specimens**

ref. ZMA.E1059, 2 syntypes (alcohol), Siboga Expedition, station 149, East coast of Gebe, reef

**bicornis, Protankyra** Sluiter, 1901b : 131, pl. 10 figs 15a-c; H.L. Clark 1907 : 101; Heding 1928 : 252

**Type specimen**

ref. ZMA.E1127, holotype (alcohol), Siboga Expedition, station 284, 8°43'1 S - 127°16'7 E, 828 m

**cataphracta, Cucumaria** Sluiter, 1901b : 82, pl. 7 figs 14a-b

= *Ocnus cataphractus* (Sluiter, 1901); see Panning 1949 : 437

**Type specimens**

ref. ZMA.E1106, 3 syntypes (alcohol), Siboga Expedition, station 61, Lamakera, reef

**conciatrix, Cucumaria** Sluiter, 1901b : 89, pl. 7 figs 12a-b

= *Pentathyone conciatrix* (Sluiter, 1901); see Panning 1949 : 459

**Type specimens**

ref. ZMA.E1104, 3 syntypes (alcohol), Siboga Expedition, station 273, Jedan Island, 13 m

**Remark**

the species belongs to the genus *Havelockia* according to A.M. Clark and Rowe 1971 : 180

**cruenta, Leptosynapta** Cherbonnier, 1953 : 175, pl. 4 figs a-j

**Type specimens**

ref. ZMA.E2176, 20 topotypes (alcohol), Le Beclem (Bay of Morlaix, Brittany, France)

**demissa, Molpadia** Sluiter, 1901b : 116, pl. 3 fig. 4, pl. 10 figs 11a-b

= *Acaudina demissa* (Sluiter, 1901); see H.L. Clark 1907 : 178, pl. 12 figs 3-4

**Type specimen**

ref. ZMA.E2178, holotype (alcohol), Siboga Expedition, station 5, 7°46' S - 114°30'5 E, 330 m

**demula, Holothuria** Sluiter, 1914 : 3, figs 1a-d

**Type specimen**

ref. ZMA.E2175, holotype (alcohol), Gier Expedition, Olehleh harbour (between Olehleh and Buru), 7-14 m

**depressa, Euphronides** Théel, 1882 : 93, pl. 26 figs 1-2, pl. 35 figs 5-6, pl. 40 fig. 7, pl. 47 fig. 4

= *Psychropotes depressa* (Théel, 1882); see Hansen 1975 : 106 textfigs 43-44, pl. 12 fig. 8, pl. 14 figs 1-2

**Type specimen**

ref. ZMA.E2988, 1 syntype (alcohol), Challenger Expedition, station 300, 33°42'S - 78°18'E, 1375 fathoms

**discolor, Thyone** Sluiter, 1901b : 96; see A.M. Clark and Rowe 1971 : 192 (listed)

**Type specimens**

ref. ZMA.E1083, 1 syntype (alcohol), Siboga Expedition, station 273, Jedan Island, 13 m; ref. ZMA.E1088, 1 syntype (alcohol), Siboga Expedition, station 51, Molo Strait, 69-91 m

**discrepans, Orcula** Sluiter, 1901b : 110, pl. 6 figs 10a-c

= *Phyllophorus (Phyllothuria) discrepans* (Sluiter, 1901); see Heding and Panning 1954 : 149, textfig. 63

**Type specimens**

ref. ZMA.E1151, 2 syntypes (alcohol), Siboga Expedition, station 313, Saleh Bay (Dangar-Besar), 36 m

**discrepans, Peniagone** Sluiter, 1901a : 27; see also Sluiter 1901b : 75, pl. 10 figs 3 & 4a-b

= *Psychreipidia discrepans* (Sluiter, 1901); see Hansen 1975 : 131

**Type specimen**

ref. ZMA.E1026, holotype (alcohol), Siboga Expedition, station 126, 3°27.1 N - 125°18'.7 E, 2053 m

**disjunctum, Psolidium** Sluiter, 1901b : 105, pl. 6 figs 13a-d

**Type specimen**

ref. ZMA.E1020, holotype (alcohol), Siboga Expedition, Station 221, 6°24' S - 124°39' E, 2798 m

**dispar, Ankyroderma** Sluiter, 1901b : 112, pl. 10 figs 6a-d

= *Molpadia dispar* (Sluiter, 1901); see H.L. Clark 1907 : 170

**Type specimen**

ref. ZMA.E1079, holotype (alcohol), Siboga Expedition, station 212, 5°54'.5 S - 120°19'.2 E, 462 m

**duriuscula, Cucumaria** Sluiter, 1901b : 87, pl. 7 figs 6a-c; Panning 1949 : 416

**Type specimens**

ref. ZMA.E1120, 1 syntype (alcohol), Siboga Expedition, station 99, 6°7.5 N - 120°26' E, 16-23 m; ref. ZMA.E1125, 1 syntype (alcohol), Siboga Expedition, station 117, 1°0' N - 122°56' E, Kwadang Bay, 80 m

**ecalcareia, Achlyonice** Théel, 1879 : 13, fig. 8; see also Hansen 1975 : 156, textfigs 72-73, 93(1), pl. 10 fig. 9

**Type specimen**

ref. ZMA.E2820, 1 syntype (alcohol), Challenger Expedition, NW Pacific, 2300 fathoms

**ecalcareia, Haplodactyla** Sluiter, 1901b : 118

= *Acaudina molpadioides* (Sluiter, 1901); see Cherbonnier and Féral 1981 : 406, textfigs 30A-H

**Type specimen**

ref. ZMA.E1064, holotype (alcohol), Siboga Expedition, station 311, Sapeh Bay (Sumbawa), 36 m

**ecalcareia, Peniagone** Sluiter, 1901a : 26; see also Sluiter 1901b : 74, pl. 10 fig. 2

= *Enyplastes ecalcareia* (Sluiter, 1901); Heding 1950 : 118

**Type specimens**

ref. ZMA.E1019, 4 syntypes (alcohol), Siboga Expedition, station 35, 8°0'.3 S - 116°59' E, 1310 m

**echinata, Pseudocucumis** Heding 1942 : 411, textfigs 1,8-12  
= *Staurocucumis nocturna* (Sluiter, 1901); see Cherbonnier and Féral 1981 : 399, textfigs 26A-L

**Type specimen**

ref. ZMA.E1072, holotype (alcohol), Siboga Expedition, station 262, 5°53'8S-132°48'8E, 560 m

**Remark**

the specimen was identified *Cucumaria nocturna* by Sluiter (1901b:92) (see that species)

**egestosum, Labiodemas** Sluiter, 1901b : 22; see also Rowe 1969 : 133

**Type specimen**

ref. ZMA.E1278/4, holotype (alcohol), Siboga Expedition, station 213, Sa-leyer, reef

**enismus, Laetmogone** Sluiter, 1901a : 22; see also Sluiter 1901b : 65, pl. 2 fig. 5, pl. 9 figs 7a-c

= *Laetmogone maculata* (Théel, 1879); see Hansen 1975 : 63, textfig. 24, pl. 8 figs 9-10, pl. 11 figs 11-12

**Type specimens**

ref. ZMA.E1021, 1 syntype (alcohol), Siboga Expedition, station 251, 5°28'.4 S - 132°0'.2 E, 204 m (specimen figured by Sluiter 1901b: pl. 2 fig. 5); ref. ZMA.E1022, 4 syntypes (alcohol), same origin

**eximia, Enypniasites** Théel, 1882 : 56, pl. 8 figs 6-7; Heding 1950 : 118

**Type specimen**

ref. ZMA.E2989, 1 syntype (alcohol), Challenger Expedition, station 168, 40°28'S - 177°43'E, 1100 fathoms

**falcata, Cucumaria** Sluiter, 1901b : 91, pl. 7 figs 13a-c

= *Havelockia falcata* (Sluiter, 1901); see Panning 1949 : 466

**Type specimen**

ref. ZMA.E1119, holotype (alcohol), Siboga Expedition, station 51, Molo Strait, 69-91 m

**fastigata, Cucumaria** Sluiter, 1901b : 86, pl. 7 figs 9a-d

= *Havelockia fastigata* (Sluiter, 1901); see Panning 1949 : 466

**Type specimens**

ref. ZMA.E1108, 1 syntype (alcohol), Siboga Expedition, station 318, 6°36'.5 N - 114°55'.5 E, 88m; ref. ZMA.E1113, 1 syntype (alcohol), Siboga Expedition, station 51, Molo Strait, 69-91 m

**fimbriatus, Ilyodaemon** Sluiter, 1901a : 23; see also Sluiter 1901b : 67, pl. 9 figs 8a-c

= *Laetmogone fimbriata* (Sluiter, 1901); see Hansen 1975 : 67, textfig 25

**Type specimen**

ref. ZMA.E1024, holotype (alcohol), Siboga Expedition, station 145, 0°54' S - 128°39'.9 E, 827 m

**fimbriatus** var. **magna, Ilyodaemon** Sluiter, 1901a : 24; Sluiter 1901b : 69

= *Laetmogone ijimai* (Mitsukuri, 1897); see Hansen 1975 : 67

**Type specimen**

ref. ZMA.E1017, holotype (alcohol), Siboga Expedition, station 292, 9°11'.7 S - 125°47'.3 E, 709 m

**fimbriatus, Psolus** Sluiter, 1901b : 103, pl. 6 figs 11a-c

**Type specimen**

ref. ZMA.E1023, holotype (alcohol), Siboga Expedition, station 251, 5°28'.4 S - 132°0'.2 E, 204 m

**fusiformis, Paelopatides** Sluiter, 1901a : 7; see also Sluiter 1901b : 42

**Type specimens**

ref. ZMA.E1002, 1 syntype (alcohol), Siboga Expedition, station 88, 0°34'.6 N - 119°8'.5 E, 1301 m; ref. ZMA.E1009, 1 syntype (alcohol), Siboga Expedition, station 295, 10°35'.6 S - 124°11'.7 E, 2050 m; ref. ZMA.E1027, 4 syntypes (alcohol), Siboga Expedition, station 286, 8°50'.2 S - 127°2'.2 E, 883 m

**hamatus, Phyllophorus** Sluiter, 1914 : 17, figs 6a-d

= *Cladolabes hamatus* (Sluiter, 1914); see Heding and Panning 1954 : 129, textfig. 55

**Type specimens**

ref. ZMA.E2180, 1 syntype (alcohol), Gier Expedition, Cheribon Harbor, 10 m; ref. ZMA.E2181, 1 syntype (alcohol), Gier Expedition, 6°52' S - 112°5' E, 19-23 m; ref. ZMA.E2182, 1 syntype (alcohol), Gier Expedition, 6°18' S - 107°47'.5 E, 13-16 m; ref. ZMA.E2183, 1 syntype (alcohol), Gier Expedition, 6°50' S - 112°6' E, 10-12 m; ref. ZMA.E2184, 1 syntype (alcohol), Gier Expedition, 6°28' S - 112°39' E, 54 m

**holothuroides, Mesothuria** Sluiter, 1901a : 14; see also Sluiter 1901b : 28

**Type specimens**

ref. ZMA.E1175, 10 syntypes (alcohol), Siboga Expedition, station 173, 3°27' S - 131°0'.5 E, 567 m

**hyalegerus, Meseres** Sluiter, 1901a : 12; see also Sluiter 1901b : 50, pl. 5 figs 2-4

**Type specimens**

ref. ZMA.E2177/1, 7 syntypes (alcohol), Siboga Expedition, station 251, 5°28'.4 S - 132°0'.2 E, 20 m; ref. ZMA.E2177/2, 1 syntype (alcohol), same origin; ref. ZMA.E2492, 1 syntype (alcohol), same origin

**hystrix, Benthodytes** Sluiter, 1901a : 19; see also Sluiter 1901b : 59, pl. 4 fig. 4, pl. 9 figs 10a-b

= *Benthodytes sibogae* (Sluiter, 1901); see Hansen 1975 : 84, textfigs 32-33

**Type specimen**

ref. ZMA.E1077, holotype (alcohol), Siboga Expedition, station 221, 6°24' S - 124°39' E, 2798 m

**illicitus, Paelopatides** Sluiter, 1901a : 9; see also Sluiter 1901b : 45, pl. 9 figs 2a-c

**Type specimen**

ref. ZMA.E1034, holotype (alcohol), Siboga Expedition, station 18, 7°28'.2 S - 115°24'.6 E, 1018 m

**incerta, Elpidia** Théel, 1882 : 26, pl. 8 fig. 1, pl. 33 figs 3-4

= *Peniagona incerta* (Théel, 1882); see Hansen 1975 : 143, textfig. 65

**Type specimen**

ref. ZMA.E2987, 1 syntype (alcohol), Challenger Expedition, station 152, 60°52'S - 80°20'E, 1260 fathoms

**incerta, Scotoanassa** Sluiter, 1901a : 28; see also Sluiter 1901b : 76, pl. 9 figs 5a-e

**Type specimens**

ref. ZMA.E1031, 1 syntype (alcohol), Siboga Expedition, station 85, 0°36'.5 S - 119°29'.5 E, 724 m; ref. ZMA.E1032, 1 syntype (alcohol), Siboga Expedition, station 314, 7°36' S - 117°30'.8 E, 694 m; ref. ZMA.E1033, 2 syntypes (alcohol), Siboga Expedition, station 316, 7°19'.4 S - 116°49'.5 E, 538 m

**Remark**

status unknown (Hansen -1975:132- reported that "the specimens are so defective that neither the shape of the body nor the arrangement of the tube-feet could be made out")

**infesta, Holothuria** Sluiter, 1901b : 20, pl. 6 figs 4a-b  
= *Holothuria (Mertensiothuria) leucospilota* Brandt, 1835; see Rowe 1969 : 164

**Type specimen**

ref. ZMA.E1169, holotype (alcohol), Siboga Expedition, station 43, Sarasa, 30 m

**inflatus, Phyllophorus** Sluiter, 1901b : 114, pl. 2 fig. 10, pl. 6 figs 16a-b  
= *Neothyonidium inflatum* (Sluiter, 1901); see Heding and Panning 1954 : 193, textfig. 95

**Type specimens**

ref. ZMA.E1190/1, 1 syntype (alcohol), Siboga Expedition, station 310, 8°30' S - 119°7.5 E, 73 m; ref. ZMA.E1190/2, 2 syntypes (alcohol), same origin

**interjacens, Laetmogone** Sluiter, 1901a : 64, see also Sluiter 1901b : 64, pl. 9 figs 6a-b; Hansen 1975 : 53, textfig. 19

**Type specimens**

ref. ZMA.E1010, 2 syntypes (alcohol), Siboga Expedition, station 45, 7°24' S - 118°15.2 E, 794 m

**involutus, Meseres** Sluiter, 1901a : 11; see also Sluiter 1901b : 49, pl. 8 figs 6a-b

**Type specimens**

ref. ZMA.E1051, 1 syntype (alcohol), Siboga Expedition, station 173, 3°27' S - 131°0'.5 E, 567 m; ref. ZMA.E1052, 1 syntype (alcohol), Siboga Expedition, station 300, 10°48' S - 123°23'.1 E, 918 m

**javanicus, Ocnus** Sluiter, 1881 : 341, pl. 4 figs 1-11  
= *Leptopentacta imbricata* (Semper, 1868); see Panning 1966 : 57, textfigs 4-5

**Type specimens**

ref. ZMA.E2179/1, 1 syntype (alcohol), N.E. coast of Java, 2-6 fathoms, Sluiter coll.; ref. ZMA.E2179/2, 1 syntype (alcohol), same origin

**kallipeplos, Synapta** Sluiter, 1888 : 217, pl. 2 figs 41-43  
= *Polyplectana keifersteini* (Selenka, 1867); see H.L. Clark 1907 : 77; A.M. Clark and Rowe 1971 : 186

**Type specimen**

ref. ZMA.E2498, holotype (alcohol), "Vader Smit" reef (Batavia Bay), Sluiter coll.

**lactea, Synapta** Sluiter, 1888 : 216  
= *Synaptula lactea* (Sluiter, 1888); see Heding 1928 : 198

**Type specimens**

ref. ZMA.E2190, 4 syntypes (alcohol), Priok Harbor (Batavia Bay), Sluiter coll.; ref. ZMA.E2612, 5 syntypes (alcohol), same origin

**levis, Stichopus** Sluiter, 1888 : 196, pl. 1 fig. 6  
= *Stichopus variegatus* Semper, 1868; see H.L. Clark 1922 : 67

**Type specimen**

ref. ZMA.E2499, 1 syntypes (alcohol), Mendano Strait (E. coast of Billiton), Sluiter coll.

**luteus, Colochirus** Sluiter, 1901b : 100, pl. 2 fig. 6, pl. 7 figs 2a-b  
= *Ludwigia lutea* (Sluiter, 1901); see Panning 1949 : 431

**Type specimens**

ref. ZMA.E1018, 4 syntypes (alcohol), Siboga Expedition, station 117, 1°0'.5 N - 112°56' E, Kwadang Bay, 80 m; ref. ZMA.E1025, 3 syntypes (alcohol), Siboga Expedition, station 220, E. coast of Binongka, 55 m; ref. ZMA.E1035, 1 syntype (alcohol), Siboga Expedition, station 51, Molo Strait, 69-91 m; ref. ZMA.E1304, 12 syntypes (alcohol), same origin as E1035

**maculatus, Ilyodaemon** Théel, 1879 : 12, textfigs 9-11; see also

Théel 1882 : 84, pl. 16 figs 1-3, pl. 36 figs 12-19, pl. 42 figs 3-4, pl. 44 fig. 11, pl. 46 fig. 1

= *Laetmogone maculata* (Théel, 1879); see Hansen 1975 : 63, textfig. 24, pl. 8 figs 9-10, pl. 11 figs 11-12

**Type specimen**

ref. ZMA.E2991, 1 syntype (alcohol), Challenger Expedition, station 209, 10°10'N - 123°55'E, 95-100 fathoms

**mamillifera, Benthodytes** Théel, 1882 : 109, pl. 25 fig. 1

**Type specimen**

ref. ZMA.E2840, 1 syntype (alcohol), Challenger Expedition, station 299, 33°31'S - 74°43'W, 2160 fathoms

**Remark**

according to Hansen (1975:76) this species cannot be definitely placed taxonomically because the spicules are insufficiently preserved

**marginata, Holothuria** Sluiter, 1901b : 20

= *Holothuria (Halodeima) marginata* Sluiter, 1901; see Panning 1931 : 119 (listed)

**Type specimens**

ref. ZMA.E1161, 5 syntypes (alcohol), Siboga Expedition, station 207, 5°7.5 S - 122°39' E, 148 m

**marginata, Mesothuria** Sluiter, 1901a : 13; see also Sluiter 1901b : 26, pl. 8 figs 4a-c

**Type specimens**

ref. ZMA.E1028, 1 syntypes (alcohol), Siboga Expedition, station 87, 0°32' S - 119°39'.8 E, 655 m; ref. ZMA.E1029, 1 syntype (alcohol), Siboga Expedition, station 170, 3°37.7 S - 131°26'.4 E, 924 m

**megalopharynx, Paelopatides** Sluiter, 1901a : 7; see also Sluiter 1901b : 40

**Type specimens**

ref. ZMA.E1039, 2 syntypes (alcohol), Siboga Expedition, station 38, 7°35'.4 S - 117°28'.6 E, 521 m

**mitis, Holothuria** Sluiter, 1901b : 17, pl. 6 fig. 2; see also Panning 1936 : 13

**Type specimens**

ref. ZMA.E1053, 2 syntypes (alcohol), Siboga Expedition, station 142, Laiwui (Obi major), reef; ref. ZMA.E1054, 3 syntypes (alcohol), Siboga Expedition, station 86, Dongala, reef; ref. ZMA.E1055, 1 syntype (alcohol), Siboga Expedition, station 213, Saleyer, reef; ref. ZMA.E1056, 1 syntype (alcohol), Siboga Expedition, station 225c, Lucipara Island, reef; ref. ZMA.E1057, 1 syntype (alcohol), Siboga Expedition, station 162, E. coast of Salawatti, 18 m

**mollis, Pseudostichopus** Théel, 1886 : 169, pl. 10 figs 5-6

**Type specimen**

ref. ZMA.E2999, 1 syntype (alcohol), Challenger Expedition, station 311, 52°45'30"S-73°46'W, 245 fathoms

**monoculus, Bathyploetes** Sluiter, 1901a : 11; see also Sluiter 1901b : 35, pl. 8 figs 11a-e

**Type specimens**

ref. ZMA.E1176/1, 1 syntype (alcohol), Siboga Expedition, station 212, 5°54'.5 S - 120°19'.2 E, 462 m; ref. ZMA.E1176/2, 1 syntype (alcohol), station 254, 8°40' S - 132°26' E, 310 m

**moseleyi, Stichopus** Théel, 1886 : 165, pl. 10 figs 19-20

= *Bathyploetes moseleyi* (Théel, 1886); see Mitsukuri 1912 : 31, textfig. 7

**Type specimen**

ref. ZMA.E2993, 1 syntype (alcohol), Challenger Expedition, station 306a, 48°27'S-74°30'W, 345 fathoms

**mucronata, Cucumaria** Sluiter, 1901b : 88, pl. 7 figs 7a-d  
= *Allothyone mucronata* (Sluiter, 1901); see Panning 1949 : 466

**Type specimens**

ref. ZMA.E1110, 1 syntype (alcohol), Siboga Expedition, station 319, 6°16' S - 114°37' E, 82 m; ref. ZMA.E1116, 1 syntype (alcohol), Siboga Expedition, station 294, 10°12' S - 124°27' E, 73 m

**multiradiata, Pannychia** Sluiter, 1901a : 25; see also Sluiter 1901b : 72

= *Pannychia moseleyi* Théel, 1882; see Hansen 1975 : 72, textfig. 26

**Type specimens**

ref. ZMA.E1041, 2 syntypes (alcohol), Siboga Expedition, station 300, 10°48' S - 123°23' E, 918 m

**munita, Cucumaria** Sluiter, 1901b : 85, pl. 7 figs 10a-b

= *Stereoderma minuta* (Sluiter, 1901); see Panning 1949 : 422

**Type specimen**

ref. ZMA.E1124, 1 syntype (alcohol), Siboga Expedition, station 262, 5°53' S - 132°48' E, 560 m

**mutabilis, Oneirophanta** Théel, 1879; see also Théel 1882 : 62, pl. 21 fig. 2, pl. 22, pl. 31 figs 1-3, pl. 36 figs 1-2, 8-11, pl. 37 figs 4, 13, pl. 38 figs 11-12, pl. 40 figs 1-3, pl. 41 figs 1, 2-4, pl. 42 fig. 9, pl. 43 figs 1, 6, pl. 45, pl. 46 figs 6-7

= *Oneirophanta mutabilis mutabilis* Théel, 1879; see Hansen 1975 : 24, textfigs 2-9, 94(2), 96, pl. 8 figs 1-4, pl. 11 figs 2-8, pl. 13 figs 3-9

**Type specimens**

ref. ZMA.E2992, 2 syntypes (alcohol), Challenger Expedition, station 299, 2160 fathoms

**niger, Pseudocumis** Sluiter, 1914 : 13, figs 4a-b

= *Mensamaria intercedens* (Lampert, 1885); see Heding and Panning 1954 : 92, textfig. 31

**Type specimen**

ref. ZMA.E2189, holotype (alcohol), Gier Expedition, 6°13' S - 107°47' E, 13-15 m

**nocturna, Cucumaria** Sluiter, 1901b : 92, pl. 7 figs 15a-15c, pl. 8 figs 2a-2c

= *Staurocumis nocturna* (Sluiter, 1901); see Cherbonnier and Féral 1981 : 399, textfigs 26A-L

**Type specimen**

ref. ZMA.E1068, 1 syntype (alcohol), Siboga Expedition, station 45, 7°24' S - 118°15' E, 794 m; ref. ZMA.E1069, 2 syntypes (alcohol), Siboga Expedition, station 52, 9°34' S - 118°56' E, 959 m; ref. ZMA.E1070, 1 syntype (alcohol), Siboga Expedition, station 85, 0°36' S - 119°29' E, 724 m; ref. ZMA.E1071, 1 syntype (lectotype according to Heding, 1934) (alcohol), Siboga Expedition, station 251, 5°28' S - 132°0' E, 204 m; ref. ZMA.E1072, 1 syntype (alcohol), Siboga Expedition, station 262, 5°53' S - 132°48' E, 560 m; ref. ZMA.E1073, 1 syntype (alcohol), Siboga Expedition, station 284, 8°43' S - 127°16' E, 828 m

**Remark**

(1) the specimen from station 284 is the holotype of the species *Pseudocumis apneumona* Heding, 1934 (see Heding 1942:411); (2) the specimen from station 262 is the holotype of the species *Pseudocumis echinata* Heding, 1942 (see Heding 1942:411); (3) H.L. Clark and Deichmann (1936:564) and Cherbonnier and Féral (1981:399) consider that *P. apneumona* and *P. echinata* are synonyms of *S. nocturna*

**oktaknemus, Mesothuria** Sluiter, 1901a : 14; see also Sluiter 1901b : 27, pl. 8 figs 5a-d; Cherbonnier and Féral 1981:373, textfigs 10A-I

**Type specimens**

ref. ZMA.E1004, 2 syntypes (alcohol), Siboga Expedition, station 211, 5°40' S - 120°45' E, 1158 m

**oxurropa, Holothuria** Sluiter, 1888 : 190, pl. 1 figs 3-5

= *Holothuria (Mertensiothuria) leucospilota* (Brandt, 1835); see Rowe 1969 : 164

**Type specimens**

ref. ZMA.E2493, 1 syntype (alcohol), Batavia Bay, on reef, Sluiter coll.; ref. ZMA.E2501, 1 syntype (alcohol), same origin

**papillata, Thyone** Sluiter, 1888 : 207, pl. 2 figs 27-30

= *Stolus papillatus* (Sluiter, 1888); see Massin 1987 : 99, textfigs 3-4

**Type specimen**

ref. ZMA.E2502, holotype (alcohol), Batavia Bay, 6 fathoms

**parmartus, Psolus** Sluiter, 1901b : 102, pl. 6 figs 14a-c

**Type specimen**

ref. ZMA.E1300, holotype (alcohol), Siboga Expedition, station 259, 5°29' S - 132°52' E, 487 m

**perforata, Ankyroderma** Sluiter, 1901b : 121, pl. 10 figs 8a-d

= *Molpadia perforata* (Sluiter, 1901); see H.L. Clark 1907 : 167, pl. 10 fig. 19

**Type specimens**

ref. ZMA.E1044, 2 syntypes (alcohol), Siboga Expedition, station 5, 7°46' S - 114°30' E, 330 m; ref. ZMA.E1045, 1 syntype (alcohol), Siboga Expedition, station 137, 0°23' S - 127°29' E, 472 m; ref. ZMA.E1046, 1 syntype (alcohol), Siboga Expedition, station 208, 5°39' S - 122°12' E, 1886 m; ref. ZMA.E1047, 1 syntype (alcohol), Siboga Expedition, station 284, 8°43' S - 129°16' E, 828 m

**peripatus, Meseres** Sluiter, 1901a : 10; see also Sluiter 1901b : 48, pl. 5 fig. 5, pl. 8 figs 7a-b

**Type specimen**

ref. ZMA.E1048, 3 syntypes (alcohol), Siboga Expedition, station 45, 7°24' S - 118°15' E, 794 m; ref. ZMA.E1049, 1 syntype (alcohol), Siboga Expedition, station 122, 1°58' N - 125°0' E, ca. 1200 m; ref. ZMA.E1050, 7 syntypes (alcohol), Siboga Expedition, station 211, 5°40' S - 120°45' E, 1158 m

**phlegmaticus, Bathyplores** Sluiter, 1901a : 4; see also Sluiter 1901b : 36, pl. 2 fig. 3, pl. 8 figs 14 & 15a-b

**Type specimen**

ref. ZMA.E1178, holotype (alcohol), Siboga Expedition, station 139, 0°11' S - 127°25' E, 397 m

**pituitosa, Thyone** Sluiter, 1901b : 94, pl. 6 figs 7a-d

**Type specimen**

ref. ZMA.E1093, holotype (alcohol), Siboga Expedition, station 254, 5°40' S - 132°26' E, 310 m

**propinquus, Psolus** Sluiter, 1901b : 104

**Type specimen**

ref. ZMA.E1003, holotype (alcohol), Siboga Expedition, station 51, Molo Strait, 69-91 m

**protectum, Scotodeima** Sluiter, 1901a : 20; see also Sluiter 1901b : 61, pl. 2 fig. 7, pl. 9 figs 4a-c

= *Ophnurgus protectus* (Sluiter, 1901); see Hansen 1975 : 47

**Type specimen**

ref. ZMA.E1008, holotype (alcohol), Siboga Expedition, station 88, 0°34' S - 119°8' E, 1301 m

**- psara, Synapta** Sluiter, 1888 : 219, pl. 2 figs 36-38

= *Synaptula psara* (Sluiter, 1888); see Heding 1928 : 176

**Type specimens**

ref. ZMA.E2504, 5 syntypes (alcohol), Bay of Batavia, on reef, Sluiter coll.

**punctata, Haplodactyla** Sluiter, 1888 : 209, pl. 2 figs 31-35

**Type specimens**

ref. ZMA.E1302, 2 syntypes (alcohol), Bay of Batavia, Sluiter coll.; ref. ZMA.E 2174, 1 syntype (alcohol), same origin

**Remark**

according to an anonymous label, the species would be a synonym of *Aphelodactyla molpadioides*

**punctatus, Bathyperpystikes** Sluiter, 1901a : 6; see also Sluiter 1901b : 37, pl. 8 figs 12a-d & 13

**Type specimens**

ref. ZMA.E1013, 1 syntype (alcohol), Siboga Expedition, station 65a, 7°0' S - 120°34' 5 W, 400 m; ref. ZMA.E1005, 1 syntype (alcohol), Siboga Expedition, station 254, 5°40' S - 132°26' E, 310 m

**Remark**

*B. punctatus* is the type species of the genus *Bathyperpystikes*.

**purpureopunctata, Orcula** Sluiter, 1901b : 109, pl. 6 figs 15a-d

= *Phyllophorus (Phyllophorella) purpureopunctata* (Sluiter, 1901); see Heding and Panning 1954 : 158, textfig. 71

**Type specimen**

ref. ZMA.E1082, holotype (alcohol), Siboga Expedition, station 273, Jedan Island, 13 m

**purpureopunctatus, Paelopatides** Sluiter, 1901a : 8; see also Sluiter 1901b : 43

= ? *Paelopatides appendiculata* Théel, 1886; see Mitsukuri 1912 : 9

**Type specimens**

ref. ZMA.E2494, 1 syntype (alcohol), Siboga Expedition, station 31, 7°36' S - 117°30' 8 E, 694 m; ref. ZMA.E2495, 1 syntype (alcohol), Siboga Expedition, station 101, 6°15' N - 120°21' E, 1270 m

**pustulosus, Pseudostichopus** Sluiter, 1901a : 16; see also Sluiter 1901b : 53, pl. 6 figs 6a-b, pl. 9 fig. 1

**Type specimens**

ref. ZMA.E1011, 1 syntype (alcohol), Siboga Expedition, station 145, 0°45' S - 128°39' 9 E, 827 m; ref. ZMA.E1012, 1 syntype (alcohol), same origin as E.1011; ref. ZMA.E. 1006, 1 syntype (alcohol), Siboga Expedition, station 170, 3°37' 7 S - 131°26' 4 E, 924 m; ref. ZMA.E1303, 1 syntype (alcohol), same origin as E.1006

**quinguangularis, Pseudocucumis** Sluiter, 1901b : 108, pl. 6 figs 9a-f

= *Actinocucumis typicus* Ludwig, 1874; see Heding and Panning 1954 : 72, textfigs 19-20

**Type specimens**

ref. ZMAE1149, 1 syntype (alcohol), Siboga Expedition, station 181, Ambon, reef; ref. ZMA.E1050, 2 syntypes (alcohol), Siboga Expedition, station 58, Seba (Savu), reef

**redimita, Cucumaria** Sluiter, 1901b : 90, pl. 8 figs 1a-f

**Type specimens**

ref. ZMA.E1103, 2 syntypes (alcohol), Siboga Expedition, station 289, 9°0' 3 S - 126°24' 5, 112 m

**reducta, Cucumaria** Sluiter, 1901b : 84, pl. 7 figs 11a-b

= ? *Phyllophorus (Urodemella) brocki* Ludwig, 1888; see Heding and Panning 1954 : 163, textfig. 65

**Type specimen**

ref. ZMA.E1118, holotype (alcohol), Siboga Expedition, station 302, 10°27' 9 S - 129°28' 7 E, 216 m

**reticulatus, Synallactes** Sluiter, 1901a : 9; see also Sluiter 1901b : 46,

pl. 3 figs 1-2, pl. 8 figs 9a-c

**Type specimen**

ref. ZMA.E1038, holotype (alcohol), Siboga Expedition, station 254, 5°40' S - 132°26' E, 310 m

**rigidum, Thyonidium** Sluiter, 1894 : 80

**Type specimen**

ref. ZMA.E2195, holotype (alcohol), Indian Archipelago

**rosea, Benthogone** Koehler, 1895 : 480, textfig. 16; see also Koehler 1896 : 114, pl. 1 figs 2-3, pl. 4 figs 36-37; Hansen, 1975 : 48, textfig. 5

**Type specimens**

ref. ZMA.E2841, 2 syntypes (alcohol), Caudan Expedition, station 15, 44°02'N-5°22'W, Bay of Biscay, 1300 m

**roulei, Holothuria** Koehler, 1895 : 482, textfig. 12; see also Koehler 1896 : 105; pl. 4 fig. 47

= *Mesothuria verrilli* (Théel, 1886); see Mortensen 1927 : 381

**Type specimen**

ref. ZMA.E2990, 1 syntype (alcohol), Caudan Expedition, station 15, 44°02'N-5°22'W, Bay of Biscay, 1300 m

**rubicundus, Bathyploetes** Sluiter, 1901a : 2; see also Sluiter 1901b : 2, pl. 3 fig. 3, pl. 8 figs 16a-e

**Type specimens**

ref. ZMA.E1014, 1 syntype (alcohol), Siboga Expedition, station 74, 5°35' S - 119°0' E, 450 m; ref. ZMA.E1016, 1 syntype (alcohol), Siboga Expedition, station 2, 7°25' S - 113°16' E, 56 m

**salivosus, Benthodytes** Sluiter, 1901a : 19; see also Sluiter 1901b : 58

**Type specimen**

ref. ZMA.E1078, holotype (alcohol), Siboga Expedition, station 38, 7°35' 4 S - 11°28' 6 E, 521 m

**Remark**

according to Hansen (1975:15) *B. salivosus* represents an unidentifiable species of the laetomogonid genus *Apodogaster*

**scabrum, Throchostoma** Sluiter, 1901b : 119, pl. 10 figs 9a-d

**Type specimens**

ref. ZMA.E1192/1, 1 syntype (alcohol), Siboga Expedition, station 254, 5°40' S - 132°26' E, 310 m; ref. ZMA.E1192/2, 2 syntypes (alcohol), Siboga Expedition, station 284, 8° 43' 2 S - 127°16' 7 E, 828 m; ref. ZMA.E1192/4, 1 syntype (alcohol), Siboga Expedition, station 85, 0°36' 5 S - 119°29' 5 E, 724 m; ref. ZMA.E1192/5, 1 syntype (alcohol), Siboga Expedition, station 300, 10°48' 6 S - 123° 23' 1 E, 918 m

**scabrum var. spinosa, Throchostoma** Sluiter, 1901b : 119, pl. 10 fig. 10

**Type specimens**

ref. ZMA.E1192/3, 1 syntype (alcohol), Siboga Expedition, station 300, 10°48' 6 S - 123°23' 1 E, 918 m; ref. ZMA.E.1194, 2 syntypes (alcohol), Siboga Expedition, station 254, 5°40' S - 132°26' E, 310 m

**scandens, Colochirus** Sluiter, 1887 : 205, pl. 2 figs 23-26

**Type specimen**

ref. ZMA.E2172, holotype (alcohol), Bay of Batavia, Vader Smit reef

**sibogae, Benthodytes** Sluiter, 1901a : 17; see also Sluiter 1901b : 55, pl. 1 figs 1-2, pl. 9 figs 11a-f, pl. 10 fig. 1; Hansen 1975 : 84, textfigs 32-33

**Type specimens**

ref. ZMA.E1074, 1 syntype (alcohol), Siboga Expedition, station 18, 7° 28' 2 S - 115° 24' 6 E, 1018 m; ref. ZMA.E1075, 1 syntype (alcohol), Siboga Ex-

pedition, station 314, 7° 36' S - 117° 30'.8 E, 694 m; ref. ZMA.E1076, 1 syntype (alcohol), Siboga Expedition, station 175, 2° 37.7 S - 130° 33'.4 E, 1914 m

**sibogae, Protankyra** Sluiter, 1901b : 132, pl. 10 figs 16a-c

**Type specimen**

ref. ZMA.E1133, holotype (alcohol), Siboga Expedition, station 45, 7° 24' S - 118° 15'.2 E, 794 m

**simplex, Phyllophorus** Sluiter, 1914 : 22, figs 9a-e

= *Actinocucumis typicus* Ludwig, 1874; see Heding and Panning 1954 : 72, textfigs 19-20

**Type specimen**

ref. ZMA.E2191, holotype (alcohol), Gier Expedition, Surabaya Harbor

**sordidata, Cucumaria** Sluiter, 1901b : 83, pl. 7 figs 16a-c

= *Neocucumis sordidatus* (Sluiter, 1901); see Heding and Panning 1954 : 72, textfigs 19-20

**Type specimen**

ref. ZMA.E1115, holotype (alcohol), Siboga Expedition, station 105, 6° 8' N - 121° 19' E, 275 m

**spadix, Thyone** Sluiter, 1901b : 97, pl. 6 figs 6a-b

= *Allothylene spadix* (Sluiter, 1901); see Panning 1949 : 466

**Type specimen**

ref. ZMA.E1084, holotype (alcohol), Siboga Expedition, station 50, Labuan Badjo, 40 m

**sphaericum, Psolidium** Sluiter, 1901b : 105, pl. 6 figs 12a-e

**Type specimens**

ref. ZMA.E1172, 4 syntypes (alcohol), Siboga Expedition, station 52, 9° 3'.4 S - 119° 56'.7 E, 959 m; ref. ZMA.E1173, 1 syntype (alcohol), Siboga Expedition, station 159, 0° 59'.1 S - 129° 48'.8 E, 411 m; ref. ZMA.E1174, 1 syntype (alcohol), Siboga Expedition, station 211, 5° 40'.7 S - 120° 45'.5 E, 1158 m

**Remark**

a label by David Pawson mentions that the species does not belong to the genus *Psolidium* but either to *Ypsilothuria* or *Ypsilocucumis*. Also Pawson write that 3 of the 4 specimens from station 52 do not belong to the species *P. sphaericum* as described by Sluiter (1901a,b)

**squamatus, Colochirus** Sluiter, 1901b : 101, pl. 8 figs 3a-b

= *Pentacta squamata* (Sluiter, 1901); according to an anonymous label

**Type specimen**

ref. ZMA.E1007, holotype (alcohol), Siboga Expedition, station 289, 9° 0'.3 S - 126° 24'.5 E, 112 m

**submersa, Holothuria** Sluiter, 1901b : 18, pl. 1 fig. 6 figs 5a-d

= *Holothuria (Metriatyla) submersa* Sluiter, 1901; see Rowe 1969 : 160

**Type specimen**

ref. ZMA.E1015, holotype (alcohol), Siboga Expedition, station 306, 8° 27' S - 122° 54'.1 E, 247 m

**sulcatus, Bathylotes** Sluiter, 1901a : 1; see also Sluiter 1901b : 32, pl. 8 figs 10a-e; Cherbonnier and Féral 1981 : 380, textfigs 14A-J

**Type specimens**

ref. ZMA.E1179, 1 syntype (alcohol), Siboga Expedition, station 170, 3° 37' S - 131° 26'.4 E, 924 m; ref. ZMA.E1180, 1 syntype (alcohol), Siboga Expedition, station 74, 5° 3'.5 S - 119° 0' E, 450 m

**suspecta, Protankyra** Sluiter, 1901b : 132, pl. 10 figs 14a-c

**Type specimen**

ref. ZMA.E1134, holotype (alcohol), Siboga Expedition, station 207, 5° 7'.5 S

- 122° 39' E, 148 m

**trachus, Pseudostichopus** Sluiter, 1901a : 15; see also Sluiter 1901b : 52, pl. 5 fig. 1, pl. 8 figs 8a-b; Mitsukuri 1912 : 3, textfig. 1, pl. 1 figs 1-5; Cherbonnier and Féral 1981 : 383, textfigs 16A-D

**Type specimens**

ref. ZMA.E2496/1, 1 syntype (alcohol), Siboga Expedition, station 286, 8° 50'.2 S - 127° 2'.2 E, 883 m; ref. ZMA.E2496/2, 1 syntype (alcohol), Siboga Expedition, station 161, 1° 10'.5 S - 130° 9' E, 798 m

**transvectus, Phyllophorus** Sluiter, 1915 : 19, figs 7a-b

= *Afrocucumis africana* (Semper, 1868); see Heding and Panning 1954 : 109, textfig. 39

**Type specimens**

ref. ZMA.E2185, 1 syntype (alcohol), Gier Expedition, 4 km North of Klampis (Madura); ref. ZMA.E2186, 1 syntype (alcohol), Gier Expedition, 6° 19' - 110° 50' E, 40-50 m

**tricolor, Cucumaria** Sluiter, 1901b : 81, pl. 1 fig. 3, pl. 7 figa 8a-e

= *Pseudocolochirus violaceus* (Théel, 1886); see A.M. Clark and Rowe 1971 : 195

**Type specimens**

ref. ZMA.E2173/1, 5 syntypes (alcohol), Siboga Expedition, station 273, Jordan Island (East coast of Aru), 13 m; ref. ZMA.E2173/2, 2 syntypes (alcohol), same origin; ref. ZMA.E2497, 1 syntype (alcohol), same origin

**tridens, Ankyroderma** Sluiter, 1901b : 122, pl. 10 figs 7a-b

= *Molpadia tridens* (Sluiter, 1901); see H.L. Clark 1907 : 172; pl. 10 figs 8-9

**Type specimens**

ref. ZMA.E1081/1, 3 syntypes (alcohol), Siboga Expedition, station 5, 7° 46' S - 114° 30'.5 E, 330 m; ref. ZMA.E1081/2, 1 syntype (alcohol), Siboga Expedition, station 212, 5° 54'.5 S - 120° 19'.2 E, 462 m

**triremis, Holothuria** Sluiter, 1901b : 19, pl. 6 figs 3a-c

= *Labidodemas rugosum* (Ludwig, 1875); according to a label by Frank W.E. Rowe

**Type specimens**

ref. ZMA.E1157, 2 syntypes (alcohol), Siboga Expedition, station 225c, Lucipara Island, reef.

**uniannulata, Thyone** Sluiter, 1914 : 10, figs 3a-b

= *Havelockia uniannulata* (Sluiter, 1914); see Panning 1949 : 466

**Type specimen**

ref. ZMA.E2194, holotype (alcohol), Gier Expedition, 6° 19' S - 110° 50' E, about 50 m

**vankampeni, Thyone** Sluiter, 1914 : 8, figs 2a-c

= *Havelockia vankampeni* (Sluiter, 1914); see Panning 1949 : 466

**Type specimens**

ref. ZMA.E2192, 1 syntype (alcohol), Gier Expedition, 6° 8' S - 108° 16' E, 30-35 m; ref. ZMA.E2193, 1 syntype (alcohol), Gier Expedition, 4° 25' S - 114° 31' E, 20-24 m

**vastus, Stichopus** Sluiter, 1887 : 198, pl. 2 figs 46-48

= *Stichopus chloronotus* Semper, 1868; see H.L. Clark 1922 : 67

**Type specimen**

ref. ZMA.E2505, holotype (alcohol), Tandjong Priok (Batavia Bay)

**vilis, Cucumaria** Sluiter, 1901b : 86, pl. 7 figs 5a-e

**Type specimens**

ref. ZMA.E1109, 1 syntype (alcohol), Siboga Expedition, station 51, Molo Strait 69-91 m; ref. ZMA.E1114, 1 syntype (alcohol), Siboga Expedition station 240, Banda, 10-40 m

**virgata, Chondrocloea** Sluiter, 1901b : 128, pl. 1 fig. 5

= *Synaptula virgata* (Sluiter, 1901); see Hedding 1928 : 172

**Type specimen**

ref. ZMA.E1195, holotype (alcohol), Siboga Expedition, station 162, East coast of Salawatti, 18 m

**vitrea, Thyone** Sluiter, 1901b : 95, pl. 6 figs 8a-d

**Type specimen**

ref. ZMA.E1090, holotype (alcohol), Siboga Expedition, station 254, 5°40' S - 132°26' E, 310 m

**vultur, Phyllophorus** Sluiter, 1914 : 20, figs 8a-b

= *Neothyonodium vultur* (Sluiter, 1914); see Hedding and Panning 1954 : 192, textfig. 94

**Type specimen**

ref. ZMA.E2187, holotype (alcohol), Gier Expedition, 6°19' S - 110°50' E, 40-50 m

## Echinoidea

The Amsterdam collection houses type specimens of 44 nominal species and 5 nominal varieties of echinoids. Most of them are from Indonesian waters where they were collected by the Siboga Expedition (types of 33 species and 4 varieties). Other species originate from Hawaiian waters (Albatross Expedition; types of 2 species), from Australia (types of 3 species), from the North Atlantic (Ingolf Expedition; types of 2 species), from the South Atlantic (Challenger Expedition; type of 1 variety), or from the Tropical and North Pacific (Mortensen Expedition; types of 4 species).

**albus var. virescens, Opechinus** Mortensen, 1942 : 228; see also Mortensen 1943a : 306, pl. 18 figs 30-34, pl. 50 figs 14, 21 & 23

**Type specimen**

ref. ZMA.E2145, holotype (alcohol), Siboga Expedition, station 105, 6°8' N - 121°19' E, 275 m

**Remark**

the specimen was previously identified *Pleurechinus variabilis* by de Meijere (1094:79)

**alexandri var. sibogae, Echinolampas** Mortensen, 1948a : 1; see also Mortensen 1948b : 282, pl. 2 figs 20-24, pl. 3 figs 1-3, pl. 14 figs 1, 4 & 7

**Type specimens**

ref. ZMA.E2029, 2 syntypes (alcohol), Siboga Expedition, station 66, between Bahuluang and Tambolongan (Saleyer), 8-10 m

**Remark**

the specimens were previously identified *Echinolampas depressa* by de Meijere (1904:144)

**alternans, Phormosoma** de Meijere, 1903 : 2; see also de Meijere 1904 : 31, pl. 3 figs 21-22, pl. 12 figs 143-148

= *Paraphormosoma alternans* (de Meijere, 1903); see Mortensen 1935 : 152, pl. 4 figs 5-8, pl. 76 figs 14-16

**Type specimen**

ref. ZMA.E2146, holotype (alcohol), Siboga Expedition, station 314, 7°36' S

- 117°30'.8 E, 694 m

**Remark**

*P. alternans* is the type species of the genus *Paraphormosoma*

**ambonensis, Nudechinus** Mortensen, 1942 : 230; see also Mortensen 1943 : 410, pl. 22 figs 40-45, pl. 51 figs 21, 26-28

**Type specimens**

ref. ZMA.E2144, 3 syntypes (alcohol), Ambon, leg. Mortensen

**amphigymmum, Dermatodiadema** de Meijere, 1903 : 2; see also de Meijere 1904 : 47, pl. 14 figs 195-202

= *Plesiodiadema amphigymmum* (de Meijere, 1903); see Mortensen 1940 : 35, pl. 63 figs 8-11

**Type specimen**

ref. ZMA.E2153, 3 syntypes (alcohol), Siboga Expedition, station 211, 5°40'.7 S - 120°45'.5 E, 1158 m

**anale, Laganum** de Meijere, 1904 : 29, pl. 6 figs 71-72, pl. 18 figs 340-343

= *Peronella analis* (de Meijere, 1904); see Mortensen 1948c : 293, pl. 51 figs 24-25, pl. 72 figs 9, 10, 12

**Type specimens**

ref. ZMA.E2147, 5 syntypes (alcohol), Siboga Expedition, station 153, 0° 3'.8 N - 130° 24'.3 E, 141 m; ref. ZMA. E. 2148, 7 syntypes (alcohol), Siboga Expedition, station 260, 5°36'.5 S - 132°55'.2 E, 90 m; ref. ZMA.E2149, 1 syntype (alcohol), Siboga Expedition, station 305, Solor Strait, 113 m

**arcitum, Aspidodiadema** Mortensen, 1939 : 547; see also Mortensen 1940 : 46, pl. 1 fig. 17, pl. 2 figs 6-10, pl. 64 figs 13-17

**Type specimen**

ref. ZMA.E211, 1 syntype (alcohol), Albatross Expedition, station 3994, Hawaiian Islands, 300-1450 m, leg. Mus. Harvard

**Remark**

Mortensen (1939) did not refer to the Amsterdam specimen in the very brief original description of the species; however, it clearly appears from his 1940 description that the specimen was considered when the species *A. arcitum* was erected. The specimen was previously identified *Aspidodiadema nicobaricum* by Agassiz and Clark (1907:235; 1908:94, pl. 50 figs 1-2)

**armatus, Echinus** de Meijere, 1903 : 5

= *Selenechinus armatus* (de Meijere, 1903); see de Meijere 1904 : 99, pl. 5 figs 38-39, pl. 17 figs 291-299; Mortensen 1934b : 294, pl. 33 figs 1-3, pl. 62 figs 1-8

**Type specimen**

ref. ZMA.E2160, holotype (alcohol), Sulu Sea

**Remark**

*S. armatus* is the type species of the genus *Selenechinus*

**baculosa var. brevicollis, Cidaris** de Meijere, 1904 : 11, pl. 2 figs 8, 13, pl. 11 fig. 110

= *Stylocidaris brevicollis* (de Meijere, 1904); see Mortensen 1928b : 379, pl. 38 figs 4-6, pl. 72, figs 1-2, pl. 75, figs 3, 16-20

**Type specimens**

ref. ZMA.E2166, 2 syntypes (alcohol), Siboga Expedition, station 49a, Sapeh Strait, 69 m; ref. ZMA.E2167, 2 syntypes (alcohol), Siboga Expedition, station 51, Molo Strait, 69-91 m

**conicum, Laganum** de Meijere, 1904 : 120, pl. 6 fig. 68, pl. 18 figs 325-328

= *Laganum fudsiyama* Döderlein, 1885; see Mortensen 1948c : 338, pl. 54 figs 5, 6 & 10-13, pl. 70 figs 8-9 & 14-15

**Type specimens**

ref. ZMA.E2123, 2 syntypes (alcohol), Siboga Expedition, station 74, 5°3'.5

S - 119°0' E, 450 m

**cyclus, Ammotrophus** H.L. Clark, 1928 : 471, textfig. 140; see also Mortensen 1948c : 152, pl. 4 fig. 2, pl. 44 figs 4-5, pl. 45 fig. 7, pl. 49 figs 18, 19, 24, 26

**Type specimen**

ref. ZMA.E2257, 1 paratype (alcohol), Encounter Bay (South Australia), leg. Mus. Harvard

**decipiens, Genocidaris** de Meijere, 1904 : 76, pl. 16 figs 264-266

= *Temnopleurus decipiens* (de Meijere, 1904); see Mortensen, 1943a : 104, pl. 3 figs 34-36, pl. 45 figs 7, 8, 13

**Type specimens**

ref. ZMA.E2169, 3 syntypes (alcohol), Siboga Expedition, station 50, Labuan Badjo (Florès), 40 m; ref. ZMA.E2170, 1 syntype (alcohol), Siboga Expedition, station 213, Saleyer; ref. ZMA.E2171, 50 syntypes (alcohol), Siboga Expedition, station 313, Saleh Bay, 36 m

**denudata, Astropyga** de Meijere, 1903 : 4; see also de Meijere 1904 : 57, pl. 4 figs 31-32, pl. 14 figs 209-214

= *Eremopyga denudata* (de Meijere); see Mortensen 1940 : 209, pl. 17 figs 2-3, pl. 24 fig. 1, pl. 25 figs 1-4, pl. 27 fig. 5, pl. 71 figs 9-11, 13-19

**Type specimens**

ref. ZMA.E2125, 2 syntypes (alcohol), Siboga Expedition, station 312, 8°19' - 117°41' E, 274 m

**echinobrissoides, Aphanophora** de Meijere, 1903 : 8; see also de Meijere 1904 : 142, pl. 6 fig. 79, pl. 9 figs 372-379; Mortensen 1948b : 341

**Type specimens**

ref. ZMA.E1342, 1 syntype (alcohol), Siboga Expedition, station 59, 10°22'7" - 123°16'5" E, 390 m; ref. ZMA.E1343, 1 syntype (dry), Siboga Expedition, station 98, 6°9' N - 120°21' E, 350 m

**Remark**

*A. echinobrissoides* is the type species of the genus *Aphanophora*

**excentricus, Linopneustes** de Meijere, 1903 : 13; see also de Meijere 1904 : 180, pl. 10 figs 94-95, pl. 22 figs 454-457; Mortensen 1950a : 220, pl. 24 figs 5, 16, 22

**Type specimens**

ref. ZMA.E2134, 1 syntype (alcohol), Siboga Expedition, station 271, 5°66'7" S - 134°0' E, 1788 m; ref. ZMA.E2135, 9 syntypes (alcohol), Siboga Expedition, station 314, 7°36' S - 117°30'8" E, 694 m

**fimbriata, Cidaris** de Meijere, 1904 : 22, pl. 3 fig. 20, pl. 12 figs 133-134

= *Goniocidaris fimbriata* (de Meijere, 1904); see Mortensen 1928b : 190, pl. 15 figs 8-13, pl. 69 fig. 14, pl. 78 figs 12-13

**Type specimens**

ref. ZMA.E2130, 2 syntypes (alcohol), Siboga Expedition, station 173, 3°27' S - 131°0'5" E, 567 m

**fragilis, Palaeopneustes** de Meijere, 1903 : 12; see also de Meijere 1904 : 175, pl. 9 figs 90-93, pl. 21 figs 427-432, pl. 22 figs 433-437

= *Linopneustes fragilis* (de Meijere, 1903); see Mortensen 1950a : 210, textfigs 156-158, pl. 13 fig. 1, pl. 14 fig. 1, pl. 23 figs 4, 7 & 15, pl. 24 figs 1, 10, 19 & 23

**Type specimens**

ref. ZMA.E2139, 1 syntype (alcohol), Siboga Expedition, station 18, 7°28'2" S - 115°24'6" E, 1018 m; ref. ZMA.E2140/1, 9 syntypes (alcohol), Siboga Expedition, station 45, 7°24' S - 118°15'2" E, 794 m; ref. ZMA.E2140/2, 2 syntypes (alcohol; broken), same origin as E2140/1; ref. ZMA.E2141/1, 3 syntypes (alcohol), Siboga Expedition, station 85, 0°36'5" S - 119°29'5" E, 724 m; ref. ZMA.E2141/2, 2 syntypes (alcohol, broken) same origin as E2141/1

**glandulosa, Cidaris** de Meijere, 1904 : 13, pl. 1 figs 5-6

= *Prionodicaris glandulosa* (de Meijere, 1904); see Mortensen 1928b : 461, pl. 54 figs 7-8, pl. 73 fig. 11, pl. 87 fig. 9

**Type specimens**

ref. ZMA.E2155, 1 syntype (alcohol), Siboga Expedition, station 49a, 8°23'5" S - 119°4'6" E, 69 m; ref. ZMA.E2156, 8 syntypes (alcohol), Siboga Expedition, station 51, Molo Strait, 69-91 m

**hawaiiense, Aspidodiadema** Mortensen, 1939 : 548; see also Mortensen 1940 : 56, pl. 1 fig. 16, pl. 2 figs 1-5, pl. 73 figs 5-7

**Type specimen**

ref. ZMA.E2140, 1 syntype (alcohol), Albatross Expedition, station 3836, Hawaiian Islands, 345-680 m, leg. Mus. Harvard

**Remark**

the specimen was previously identified *Aspidodiadema meijeri* by Agassiz and Clark (1907:235, 1908:97)

**hirsutispinus, Cidaris** de Meijere, 1904 : 20, pl. 12 figs 124-127

= *Rhopalocidaris hirsutispina* (de Meijere, 1904); see Mortensen 1928b : 214, pl. 16 fig. 13, pl. 69 fig. 21, pl. 79 figs 9-11

**Type specimen**

ref. ZMA.E2157, holotype (alcohol), Siboga Expedition, station 156, 0°29'2" S - 130°5'3" E, 469 m

**Remark**

*R. hirsutispina* is the type species of the genus *Rhopalocidaris*

**hirsutus, Plesiozonus** de Meijere, 1903 : 12; see also de Meijere 1904 : 178, pl. 7 figs 83-85, pl. 22 figs 438-453; Mortensen 1950a : 244, pl. 20 figs 7, 10, 15, 20-22 & 24

**Type specimen**

ref. ZMA.E2152, holotype (alcohol), Siboga Expedition, station 38, 7°35'4" S - 117°28'6" E, 521 m

**Remark**

*P. hirsutus* is the type species of the genus *Plesiozonus*

**indica, Hemipedina** de Meijere, 1903 : 3; see also de Meijere 1904 : 65, pl. 3 fig. 27, pl. 15 fig. 235, pl. 16 figs 236-242

= *Caenopedina indica* (de Meijere, 1903); see Mortensen 1940 : 102, pl. 3 figs 3-8, pl. 67 figs 1-11

**Type specimen**

ref. ZMA.E1354, holotype (alcohol), Siboga Expedition, station 267, 5°54' S - 132°56'7" E, 984 m

**ingolfiana, Stereocidaris** Mortensen, 1903 : 36, pl. 6 figs 1-5, 11, pl. 8 figs 4, 10, 11, 16, 19-21, 23, 26, 28-30, 36, pl. 11 figs 12, 16, 17, 23, 28, 30, 32, pl. 16 fig. 1; see also Mortensen 1928b : 267, pl. 27 figs 1-3, pl. 70 fig. 6

**Type specimen**

ref. ZMA.E3003, 1 syntype (alcohol), Ingolf Expedition, station 9, 64°18'N - 27°0'W, 295 fathoms

**maculosa, Stylocidaris** Mortensen, 1928a : 64; see also Mortensen 1928b : 364, pl. 39 figs. 7-12, pl. 72 fig. 3, pl. 75 figs. 8-15

**Type specimen**

ref. ZMA.E2168, 1 syntype (alcohol), Sagami Bay (Japan), 150 m, leg. Mortensen

**maculicollis, Porocidaris** de Meijere, 1903 : 1; see also de Meijere 1904 : 15, pl. 3 figs. 18-19, pl. 11 figs. 111-116

= *Acanthocidaris maculicollis* (de Meijere, 1903); see Mortensen 1928b : 329, textfigs 94-96, pl. 43 figs 1-2, pl. 44 fig. 1, pl. 54 figs 5-6, pl. 83 figs 12-15

**Type specimens**

ref. ZMA.E2117, 2 syntypes (alcohol), Siboga Expedition, station 51, Molo Strait, 69-91 m; ref. ZMA.E2118, 1 syntype (alcohol), Siboga Expedition, station 49a, 8°23'55" S - 119°4'6" E, 69 m; ref. ZMA.E2119, 1 syntype (alcohol), Siboga Expedition, station 204, 4°20' S - 122°58' E, 75-94 m

**minutum, Laganum** de Meijere, 1904: 125, pl. 6 figs 76-77, pl. 18 fig. 334

= *Peronella minuta* (de Meijere, 1904); see Mortensen 1948c: 295, textfig. 190, pl. 51 figs 19-22, pl. 72 fig. 6

**Type specimens**

ref. ZMA.E2150, 3 syntypes (alcohol), Siboga Expedition, station 99, 6°7'5 N - 120°26'E, 16-23 m; ref. ZMA.E2151, 1 syntype (alcohol), Siboga Expedition, station 109, Pulu Tongkil (Sulu Archipelago), 13 m

**multituberculata, Paramaretia** Mortensen, 1950b: 160; see also Mortensen 1951: 47, pl. 4 figs 6-9, pl. 5 figs 1-2, pl. 6 figs 1-5, pl. 45 figs 3, 5, 8, 10, 12-22

**Type specimen**

ref. ZMA.E2263, 3 syntypes (dry), 38°10'S - 149°25'E, SE Victoria (Australia), 190-240 fathoms, leg. Mortensen

**Remark**

*P. multituberculata* is the type species of the genus *Paramaretia*

**nicobaricum var. meijerei, Aspidodadema** Döderlein, 1906: 165.

= *Aspidodidamia meijerei* Döderlein, 1906; see Mortensen 1940: 53, textfig. 26, pl. 1 figs 6-10, pl. 55 figs 1-9

**Type specimens**

ref. ZMA.E2122, 1 syntype (alcohol), Siboga Expedition, station 253, 5°48'25" - 132°13' E, 304 m; ref. ZMA.E2124, 5 syntypes (alcohol), Siboga Expedition, station 251, 5°28'.4S - 132°0'.2 E, 204 m

**Remark**

the specimens were identified *Aspidodidamia nicobaricum* by de Meijere (1904: 44, pl. 9 figs 25-26, pl. 13 figs 183-185)

**owstoni, Araeosoma**, Mortensen, 1904: 82, pl. 2 figs 1-2, pl. 5 figs 4-9, 11, 18-20; see also Mortensen 1935: 261, pl. 16, pl. 17, pl. 18, pl. 44 fig. 1, pl. 50 fig. 1, pl. 80 fig. 11

**Type specimen**

ref. ZMA.E3001, 1 syntype (alcohol), 32°17'N - 128°11'W, Strait of Korea, 200 m, leg. Mortensen

**profundi var. occlusa, Salenocidaris** Mortensen, 1934: 165; see also Mortensen 1935: 358, pl. 66 fig. 3-4, pl. 85 figs 27-29

**Type specimen**

ref. ZMA.E2159, 1 syntype (alcohol), Challenger Expedition, station 335, off Tristan da Cunha

**provectus, Echinocyamus** de Meijere, 1903: 6; see also de Meijere 1904: 109, pl. 6 figs 51-52, pl. 17 fig. 306, pl. 18 figs 307-310; Mortensen 1948c: 192, pl. 46 figs 37-39

**Type specimens**

ref. ZMA.E1360, 5 syntypes (alcohol), Siboga Expedition, station 59, 10°12'.7 S - 123°16'.5 E, 380 m; ref. ZMA.E 1361, 2 syntypes (alcohol), Siboga Expedition, station 153, 0°3'.8 S - 130°24'.3 E, 141 m; ref. ZMA.E1362, 3 syntypes (alcohol), Siboga Expedition, station 204, 4°20' S - 122°58' E, 75-95 m; ref. ZMA.E 1363, 3 syntypes (alcohol), Siboga Expedition, station 260, 5°36'.5 S - 132°55'.2 E, 90 m

**quincunciale, Sperosoma** de Meijere, 1904: 40, pl. 13 figs 166-167; see also Mortensen 1935: 189, pl. 76 figs 7-12

**Type specimen**

ref. ZMA.E2161, holotype (alcohol), Siboga Expedition, station 286, 8°50'.2 S - 127°2'.2 S, 883 m

**rarispinus, Clypeaster** de Meijere, 1903: 7; see also de Meijere 1904: 134, pl. 6 figs 55-56, pl. 18 figs 354-361, pl. 19 fig. 362; Mortensen 1948c: 58, pl. 6 figs 1-15, pl. 45 figs 4,5,8,9, pl. 64 figs 11,12,14-17,20

**Type specimens**

ref. ZMA.E2126, 1 syntype (alcohol), Siboga Expedition, station 52, Nangamessi (Sumba), 36 m; ref. ZMA.E2127, 2 syntypes (alcohol), Siboga Expedition, station 1, 7°27'.5 S - 113°8'.5 E, 37 m; ref. ZMA.E2128, 6 syntypes (alcohol), Siboga Expedition station 2, 7°25' S - 113°16' E, 56 m; ref. ZMA.E2259, 3 syntypes (dry), Siboga Expedition, station 51, Molo Strait, 69-91 m

**recurvata, Histocidaris** Mortensen, 1928a: 66; see also Mortensen 1928b: 97, pl. 68 fig. 8, pl. 75 figs 5-7, pl. 77 fig. 22

**Type specimen**

ref. ZMA.E2131, 1 syntype (alcohol), Siboga Expedition, station 267, 5°54'S - 132°56'.7E, 984 m

**Remark**

the specimen was identified *Cidaris misakiensis* by de Meijere (1904: 27, pl. 2 figs 15-16, pl. 12 figs 141-142)

**relictus, Stereopneustes** de Meijere, 1903: 9; see also de Meijere 1904: 148, pl. 5 figs 41-43, pl. 19 figs 390-393, pl. 20 figs 394-407; Mortensen 1950a: 70 pl. 3 fig. 5, pl. 20 figs 2,3,6,8,9,11

**Type specimen**

ref. ZMA.E1352, 1 syntype (alcohol), Siboga Expedition, station 145, 5°4' S - 128°39'.9 E, 827 m; ref. ZMA.E2164, 1 syntype (alcohol), Siboga Expedition, station 95, 5°43'.5 N - 119°40' E, 522 m; ref. ZMA.E2165, 1 syntype (alcohol), same origin as E1352

**Remark**

*S.relictus* is the type species of the genus *Stereopneustes*

**rosea, Rhopalocidaris** Mortensen, 1928a: 68; see also Mortensen 1928b: 220, pl. 17 figs 13-18, pl. 69 fig. 20, pl. 79 figs 18-22

**Type specimen**

ref. ZMA.E2158, 1 syntype (alcohol), Sagami Bay (Japan), 700 m, leg. Mortensen

**rostrata, Homolampas** de Meijere, 1903: 14; see also de Meijere 1904: 196, pl. 23 figs 489-493; Mortensen 1950: 277

**Type specimens**

ref. ZMA.E2132, 1 syntype (alcohol), Siboga Expedition, station 314, 7°36' S - 117°30'.8 E, 634 m; ref. ZMA.E2133, 1 syntype (alcohol), Siboga Expedition, station 316, 7°19'.4 S - 116°49'.5 E, 538 m

**scaber, Echinocyamus** de Meijere, 1903: 5; see also de Meijere 1904: 108, pl. 6 figs 46-47, pl. 17 figs 301-305; Mortensen 1948c: 187, pl. 46 figs 34-36.

**Type specimens**

ref. ZMA.E1357, 1 syntype (alcohol), Siboga Expedition, station 65a, 7°0' S - 120°34'.5 E, 120-400 m; ref. ZMA.E1358, 2 syntypes (alcohol), Siboga Expedition, station 208, 5°39' S - 122°12' E, 1886 m; ref. ZMA.E1359, 1 syntype (alcohol), Siboga Expedition, station 211, 5°40'.7 S - 120°45'.5 E, 1158 m

**sibogae, Goniocidaris** Mortensen, 1928a: 68; see also Mortensen 1928b: 198, pl. 16 figs 6-9, pl. 69 fig. 11, pl. 78 figs 14-16

**Type specimen**

ref. ZMA.E2129, 2 syntypes (alcohol), Siboga Expedition, station 74, 5°3'5S - 119°0'E, 450 m

**Remark**

the specimens were identified *Cidaris florigera* by de Meijere (1904: 21, pl. 12 figs 128-132)

**sibogae, Podocidaris** Mortensen 1934: 166; see also Mortensen 1935: 560, pl. 87 figs 24-26

**Type specimen**

ref. ZMA.E2154, holotype (alcohol), Siboga Expedition, station 266, 5°56'S - 132°47'7 E, 595 m

**Remark**

the specimen was previously identified *Podocidaris* sp. by de Meijere (1904:68, pl. 16 fig. 244)

**sibogae, Sternopatagus** de Meijere, 1903 : 10; see also de Meijere 1904 : 155, pl. 7 figs 80-82, pl. 20 figs 408-410, pl. 21 figs 411-416; Mortensen 1950a : 101

**Type specimen**

ref. ZMA.E2163, holotype (alcohol), Siboga Expedition, station 295, 10°35' S-124°11' E, 2050 m

**solidum, Laganum** de Meijere, 1904 : 121, pl. 6 figs 64 and 66

= ? *Laganum fudsiyama* Döderlein, 1885; see Mortensen 1948c : 399, pl. 54, figs 5,6,10-13, pl. 70 figs 8,9,14,15

**Type specimens**

ref. ZMA.E1306, 5 syntypes (dry), Siboga Expedition, station 289, 9°0' S - 126°24' E, 112 m; ref. ZMA.E2260, 8 syntypes (instead of 2 as de Meijere mentioned) (dry), station 98, 6°9' N - 120°21' E, 350 m; ref. ZMA.E2261, 2 syntypes (dry), Siboga Expedition, station 24, 10°12' S - 124°27' E, 73 m

**spectabilis, Paleopneustes** de Meijere, 1903 : 11; see also de Meijere 1904 : 172, pl. 8 figs 86-90, pl. 21 figs 422-426

= *Linopneustes spectabilis* de Meijere, 1903; see Mortensen 1950a : 213, pl. 9 figs 1-2, pl. 10 figs 1-4, pl. 11 figs 1-3, pl. 23 fig. 17, pl. 24 figs 4,9,13,24

**Type specimens**

ref. ZMA.E2136, 1 syntype (alcohol), Siboga Expedition, station 212, 5°54' S - 120°19' E, 462 m; ref. ZMA.E2137, 1 syntype (alcohol), Siboga Expedition, station 297, 10°39' S - 123°40' E, 520 m; ref. ZMA.E2138, 12 syntypes (alcohol), Siboga Expedition, station 74, 5°3' S - 119°0' E, 450 m; ref. ZMA.E1364, 5 syntypes (alcohol), same origin as E2138

**sulcatispinis, Stereocidaris** Mortensen 1928a : 70; see also Mortensen 1928b : 254, pl. 18 figs 1-3, pl. 71 figs 9-10, pl. 80 figs 1-5

**Type specimens**

ref. ZMA.E2162, 2 syntypes (alcohol), Siboga Expedition, station 90, 1°17' N - 118°53' E, Kei Islands, 280 m

**Remark**

the specimens were previously identified *Cidaris grandis* by de Meijere (1904:17)

**tenera, Neolampas** de Meijere, 1903 : 8; see also de Meijere 1904 : 146, pl. 6 fig. 78, pl. 19 figs 384-389

= *Nannolampas tenera* (de Meijere, 1903); see Mortensen 1948b : 339, pl. 1 figs 1-4, pl. 12 figs 1,5,6,15,16,18

**Type specimen**

ref. ZMA.E2143, 4 syntypes (alcohol), Siboga Expedition, station 59, 10°22' S - 123°16' E, 390 m

**tenuis, Arachnoides** H.L. Clark, 1938 : 415, pl. 27 figs 3-4; see also Mortensen 1948c : 150, pl. 16 fig. 4, pl. 45 figs 6, 9

**Type specimen**

ref. ZMA.E2258, 1 paratype (alcohol), Entrance Point (Broome, Western Australia), leg. Mus. Harvard

**violacea, Micropyga** de Meijere, 1903 : 3; see also de Meijere 1904 : 3, pl. 4 figs 29-30, pl. 15 figs 232-234; Mortensen 1940 : 154, pl. 7 figs 2-3, pl. 8 figs 2-5, pl. 9 figs 1-2, pl. 69 figs 11-16

**Type specimen**

ref. ZMA.E2142, holotype (alcohol), Siboga Expedition, station 170, 3°37' S - 131°26' E, 924 m

**wandeli, Pourtalesia** Mortensen, 1905 : 242; see also Mortensen 1907 : 63, pl. 5 figs 1-7,11,12, pl. 8 figs 1-3,7, pl. 11 figs 1,13,14,18-20,23,34-

37,40,41

= ? *Pourtalesia miranda* Agassiz, 1869; see Mortensen 1950:144

**Type specimen**

ref. ZMA.E3002, 1 syntype (alcohol), Ingolf Expedition, station 36, 61°50' N-56°21' W, 1435 fathoms, leg. Mortensen

**weberi, Aceste** Koehler, 1914 : 33, pl. 2 figs 4-8; see also Mortensen 1950a : 335

**Type specimen**

ref. ZMA.E2120, holotype (alcohol), Siboga Expedition, station 300, 10°48' S-123°23' E, 918 m

**Remark**

The specimen was identified *Aceste bellidifera* by de Meijere (1904:196, pl. 23 fig. 488).

**Asteroidea**

The Amsterdam collection houses type specimens of 44 nominal species, 5 nominal subspecies and 2 nominal varieties of asteroids. Most of them are from Indonesian waters where were collected either by the Siboga Expedition (types of 30 species, 5 subspecies and 1 variety), during the scientific Voyage of HH MM the Prince and Princess Léopold de Belgique (type of 1 variety), or by individual naturalists (types of 8 species). Other species originate from either subantarctic waters or Japan (Challenger Expedition; type of 2 species), the North Atlantic (Monaco oceanographical Campaigns; type of 1 species), the Barent Sea (type of 1 species), or the Chilean coast (type of 1 species).

**bandanus, Acontiaaster** Döderlein, 1921 : 40, pl. 11 figs 1-6, pl. 12 figs 1-1b; see also A.M. Clark 1981 : 92, 96

**Type specimen** ref. ZMA.E2994, holotype (alcohol), Siboga Expedition, station 253, 5°48' N - 132°13' E, Banda Sea, 304 m

**Remark**

*A. bandanus* is the type species of the genus *Acontiaaster*

**bandanus, Astropecten** Döderlein, 1917 : 119, pl. 1 fig. 8, pl. 10 figs 2-2c

**Type specimen** ref. ZMA.E2232, holotype (dry), Siboga Expedition, station 251, 5°28' S - 132°0' E, Banda Sea, 204 m

**caudatus, Ctenodiscus** Döderlein, 1921 : 11, pl. 1 figs 7-7b, 8, pl. 2 figs 3-3d

**Type specimens**

ref. ZMA.E2212, 1 syntype (alcohol), Siboga Expedition, station 51, Malo Strait, 69-91 m; ref. ZMA.E2213, 1 syntype (alcohol), Siboga Expedition, station 52, 9°3' S - 119°56' E, Sumba, 995 m; ref. ZMA.E 2114, 1 syntype (alcohol), Siboga Expedition, station 170, 3°38' S - 131°26' E, Ceram Sea, 924 m; ref. ZMA.E2242, 1 syntype (dry), same origin as E2212

**celebensis, Astropecten** Döderlein, 1917 : 118, pl. 1 fig. 7, pl. 10 figs 3-3c

**Type specimen**

ref. ZMA.E2231, holotype (dry), Siboga Expedition, station 212, 5°54' S -

120°19.2 E, 462 m

**ceramicus, Tritonaster** Döderlein, 1921 : 25, pl. 5 figs 3-3d

**Type specimen**

ref. ZMA.E2256, holotype (dry), Siboga Expedition, station 173, 3°27' S - 131°5' E, Ceram Sea, 567 m

**confinis timorensis, Rosaster** Döderlein, 1924 : 54, pl. 14 figs 3-3a, pl. 15 fig. 15

**Type specimen**

ref. ZMA.E2255, holotype (dry), Siboga Expedition, station 302, 10°27.9 S - 123°28.7 E, Timor Sea, 216 m

**digitatus, Sibogaster** Döderlein, 1924 : 63, pl. 18 figs 3-3a, pl. 19 figs 3-3c

**Type specimen**

ref. ZMA.E2228, holotype (alcohol), Siboga Expedition, station 52, 9°3'.4 S - 119°56'.7 E, Savu Sea, 959 m

**Remark**

*S. digitatus* is the type species of the genus *Sibogaster*

**elegans, Calliaster** Döderlein, 1922 : 49, pl. 1 figs 1-1b; see also Jangoux *et al.* 1989 : 167, fig. 4

**Type specimen**

ref. ZMA.E2997, 1 syntype (alcohol), Siboga Expedition, station 305, Solor Strait, 113 m; ref. ZMA.E2998, 1 syntype (dry), same origin as E2997

**euphues, Pentaceropsis** Sluiter, 1895 : 56

= *Nardoa frianti* Koehler, 1910; new synonymy

**Type specimen**

ref. ZMA.E2580, holotype (dry), Moluccas, coll. Van den Hucht

**fisheri, Nearchaster** Döderlein, 1921 : 42, pl. 10 figs 2-2a, 3-3f; see also A.M. Clark 1981 : 93 (listed)

**Type specimens**

ref. ZMA.E2248, 1 syntype (dry), Siboga Expedition, station 18, 7°28'.2 S - 115°24'.6 E, Bali Sea, 1018 m; ref. ZMA.E2249, 1 syntype (dry), Siboga Expedition, station 178, 2°40' S - 128°37' E, Ceram Sea, 835 m

**fragilis, Porcellanaster** Döderlein, 1921 : 15, pl. 3 figs 1-1g

= *Porcellanaster caeruleus* Wyville Thomson, 1877; see Madsen 1961 : 126, textfigs 22-24

**Type specimens**

ref. ZMA.E2226, 2 syntypes (alcohol), Siboga Expedition, station 175, 2°38' S - 130°33' E, Ceram Sea, 1914 m; ref. ZMA.E2227, 1 syntype (alcohol), Siboga Expedition, station 211, 5°41' S - 120°46' E, South Celebes, 1158 m

**glomerata, Asterias** Sladen, 1889 : 571, pl. 105 figs 1-4

= *Diplasterias brandti* (Bell, 1881); see Fisher 1940 : 249

**Type specimen**

ref. ZMA.E2995, 1 syntype (alcohol), Challenger Expedition, station 315, 51°40'S-57°50'W, Falkland Islands, 12 fathoms

**gracilis, Hyalinotrix** Aziz and Jangoux, 1985 : 268, pl. 3 figs A-F

**Type specimen**

ref. ZMA.E1206, holotype (dry), Siboga Expedition, station 246, 4°38'S-130°42'E, 5684 m

**indonesiae, Anteliaster** Aziz and Jangoux, 1985 : 268, pl. 4 figs A-E

**Type specimen**

ref. ZMA.E1205, holotype (dry), Siboga Expedition, station 12, 7°15'S-115°15'.6E, 289 m

**intermedius, Solaster** Sluiter, 1895 : 61

= *Solaster endeca* (Linnaeus, 1771); see Engel 1935 : 61

**Type specimen**

ref. ZMA.E2229, 1 syntype (alcohol), 75°43' N - 19°0' W, Barent Sea

**keiensis, Plutonaster** Döderlein, 1921 : 23, pl. 5 figs 1-1b, 2-2a

**Type specimens**

ref. ZMA.E2224, 3 syntypes (alcohol), Siboga Expedition, station 271, 5°47' S - 134° E, Kei Islands, 1788 m; ref. ZMA.E2225, 2 syntypes (alcohol), Siboga Expedition, station 300, 10°49' S - 123°23' E, Timor Sea, 918 m; ref. ZMA.E2230, 1 syntype (dry), same origin as E2224

**longispina malayana, Luidia** Döderlein, 1920 : 280

**Type specimens**

ref. ZMA.E2219, 2 syntypes (alcohol), Batavia (=Jakarta) Bay, Sluiter coll.; ref. ZMA.E2243, 1 syntype (dry), Siboga Expedition, Saleyer; ref. ZMA.E2244, 2 syntypes (dry), Siboga Expedition, station 213, Saleyer, reef; ref. ZMA.E2246, 1 syntype (dry), Siboga Expedition, station 207, 5°7'5S-122°39'E, 148 m; ref. ZMA.E2247, 1 syntype (dry), Siboga Expedition, station 64, Kambalagi-bay (Tanah Djampeah), shore

**Remark**

specimens ref. E2219 were identified *Luidia hardwicki* by Sluiter (1895)

**malayanus, Astropecten** Döderlein, 1917 : 153, pl. 6 fig. 8, pl. 12 figs 9-9a

**Type specimen**

ref. ZMA.E2235, holotype (dry), Siboga Expedition, station 302, 10°27.9 S - 123°28.7 E, Timor Sea, 216 m

**mimicus malayanus, Pectinaster** Döderlein, 1921 : 32, pl. 7 figs 1-5a, pl. 8 figs 2, 4-9

**Type specimens**

ref. ZMA.E2221, 2 syntype (alcohol), Siboga Expedition, station 211, 5°41' S - 120°46' E, South Celebes, 1158 m; ref. ZMA.E2222, 2 syntypes (alcohol), Siboga Expedition, station 271, 5°47' S - 134° E, Kei Islands, 1788 m; ref. ZMA.E2223, 1 syntype (alcohol), Siboga Expedition, station 175, 2°38' S - 130°33' E, Ceram Sea, 1914 m; ref. ZMA.E 2251, 1 syntype (dry), Siboga Expedition, station 88, 0°34' N - 119°80 E, Makassar Strait, 1301 m; ref. ZMA.E2252, 2 syntypes (dry), same origin as E2223; ref. ZMA.E2253, 1 syntype (dry), same origin as E2221; ref. ZMA.E2254, 1 syntype (dry), same origin as E2222

**niassensis, Culcita** Sluiter, 1895 : 58

= *Chonaster granulatus* Lütken, 1869; confirmed synonymy (see Remark)

**Type specimen**

ref. ZMA.E2215, holotype (alcohol), Nias Islands

**Remark**

that synonymy was already suspected by H.L. Clark (1921:32)

**novaeguineae, Astropecten** Döderlein, 1917 : 136, pl. 14 figs 1-3, pl. 12 figs 6-7; see also Jangoux 1978 : 291, pl. 1 figs A-B

**Type specimens**

ref. ZMA.E2200, 5 syntypes (alcohol), Siboga Expedition, station, Labean Badjo, on beach; ref. ZMA.E2201, 1 syntype (alcohol), Siboga Expedition, Waingapoe; ref. ZMA.E2202, 1 syntype (alcohol), Siboga Expedition, station 320, 6°5'S-114°7'E, 82 m; ref. ZMA.E2203, 2 syntypes (alcohol), Siboga Expedition, station 318, 6°36'5S-114°55'E, 88 m; ref. ZMA.E2204, 1 syntype (alcohol), Siboga Expedition, Saleyer, reef; ref. ZMA.E2205, 3 syntypes (alcohol), Siboga Expedition, Saleyer, 18-45 m; ref. ZMA.E2236, 1 syntype (dry), Siboga Expedition, station 319, 6°16'5S-114°37'E, 82 m; ref. ZMA.E2237, 2 syntypes (dry), Siboga Expedition, Saleyer, 9-34 m; ref. ZMA.E2238, 1 syntype (dry), Siboga Expedition, Haingsisi, 36 m

**ornans, Astropecten** Sluiter, 1895 : 54

= *Astropecten marginatus* Gray, 1840; see Döderlein 1917 : 108, 174, pl. 3 figs 3-5, pl. 9, pl. 10 figs 11-11a

**Type specimens**

ref. ZMA.E2198, 2 syntype (alcohol), New Ireland and New Caledonia

**paxillatus celebensis, Solaster** Aziz and Jangoux 1985 : 266, pl. 2 figs A-C**Type specimens**

ref. ZMA.E1238, holotype (dry), Siboga Expedition, station 85, 0°36'5S-119°29'5E, 724 m; ref. ZMA.E1253, 1 paratype (alcohol), same origin

**pentaphyllum brevipes, Lithosoma** Döderlein, 1924 : 59, pl. 155 fig. 2, pl. 16 figs 4-4a**Type specimen**

ref. ZMA.E2218, holotype (alcohol), Siboga Expedition, station 297, 10°39' S - 123°40' E, between Timor and Rati, 520 m

**plurispinula, Brisingenens** Aziz and Jangoux, 1985 : 271, pl. 5 figs A-D**Type specimens**

ref. ZMA.E2599, 2 paratypes (alcohol), Siboga Expedition, station 45, 7°24'S-118°15'E, 794 m; ref. ZMA.E2600, holotype (alcohol), Siboga Expedition, station 85, 0°36'5S-119°29'5E, 724 m; ref. ZMA.E2601, 1 paratype (alcohol), Siboga Expedition, station 314, 7°36'S-117°30'E, 694 m; ref. ZMA.E2602, 1 paratype (alcohol), same origin as E2601

**progressor, Astropecten** Döderlein, 1917 : 66, pl. 16 figs 2-20, pl. 17 fig. 4**Type specimen**

ref. ZMA.E2207, holotype (alcohol), Merauke (S coast of New-Guinea)

**pusillus, Astropecten** Sluiter, 1889 : 511; see also Döderlein 1917 : 152, 181, pl. 17 figs 1-1b**Type specimen**

ref. ZMA.E2206, holotype (alcohol), Batavia (=Jakarta) Bay

**reductus, Pteraster** Koehler, 1907 : 23; see also Koehler 1909 : 96, pl. 3 figs 8-9, pl. 10 fig. 10

= *Pteraster personatus* Sladen, 1891; see Downey 1903 : 76, pl. 32 figs C-D

**Type specimens**

ref. ZMA.E3000, 2 syntypes (alcohol), Campaigns of the yacht Princesse-Alice I (Monaco), 37°40'N-26°24'15W, 100 m. leg. Monaco Museum

**regenerator, Calliaster** Döderlein, 1922 : 50, pl. 1 figs 2-2b; see also Jangoux *et al.* 1989 : 167, fig. 5**Type specimen**

ref. ZMA.E1312, holotype (alcohol), Siboga Expedition, station 51, Molo Strait, 54-90 m

**semisquamata celebensis, Benthopecten** Döderlein, 1921 : 43, pl. 12 figs 2-4, pl. 13 figs 1-4b; see also A.M. Clark 1981 : 92 (listed)**Type specimens**

ref. ZMA.E2209, 1 syntype (alcohol), Siboga Expedition, station 208, 5°39' S - 122°12' E, South Celebes, 1886 m; ref. ZMA.E2210, 3 syntypes (alcohol), Siboga Expedition, station 271, 5°47' S - 134° E, Kei Islands, 1788 m; ref. ZMA.E2239, 1 syntype (dry), same origin as E2210; ref. ZMA.E2240, 2 syntypes (dry), Siboga Expedition, station 170, 3°38' S - 131°26' E, Ceram Sea, 924 m; ref. ZMA.E2241, 1 syntype (dry), Siboga Expedition, station 88, 0°34' N - 119°08' E, Makassar Strait, 1301 m

**sibogae, Anthenea** Döderlein, 1915 : 47, pl. 10 fig. 5; see also

Döderlein 1935 : 106, pl. 27 figs 1-1a

**Type specimen**

ref. ZMA.E2196, holotype (alcohol), Siboga Expedition, station 43, Pulu Sarassa, 36 m

**sibogae, Luidia** Döderlein, 1920 : 262, pl. 18 fig. 6

= ? *Luidia savignyi* (Audouin, 1826); see A.M. Clark 1953a : 380

**Type specimen**

ref. ZMA.E2245, holotype (alcohol), Siboga Expedition, station 43, Pulu Sarassa, 36 m

**sibogae, Pectinidiscus** Döderlein, 1921 : 10 pl. 2 figs 4-4c**Type specimen**

ref. ZMA.E1305, holotype (dry), Siboga Expedition, station 50, Bay of Badjo (W coast of Florès), up to 40 m

**squamosus, Astropecten** Sluiter, 1889 : 509

= *Astropecten monacanthus* Sladen, 1883; see Döderlein 1917 : 150, 181, pl. 14 figs 5-5b, pl. 17 fig. 9

**Type specimen**

ref. ZMA.E2208, holotype (alcohol), Batavia Bay, 8 fathoms

**sumbawanus, Astropecten** Döderlein, 1917 : 159, pl. 4 fig. 11, pl. 6 fig. 9, pl. 12 figs 10-10a, pl. 15 figs 2-2a; see also Jangoux 1978 : 292**Type specimen**

ref. ZMA.E2617, holotype (dry), Siboga Expedition, station 313, Sumbawa, 36 m

**ternatensis, Astropecten** Sluiter, 1895 : 53

= ? *Astropecten irregularis* var. *serrata* Müller and Troschel, 1842; see Döderlein 1917 : 72, 167, pl. 7 figs 7, 7a, 8

**Type specimen**

ref. ZMA.E2199, 1 syntype (alcohol), Moluccas, coll. Van den Hucht

**terwieli, Asterias** Goldschmidt, 1924 : 499, figs 1-3

= *Luidia magellanica* Leopoldt, 1895; see Madsen 1956 : 16, pl. 1 figs 1-2

**Type specimen**

ref. ZMA.E2220, holotype (alcohol), Chilean coast

**timorensis, Astropecten** Döderlein, 1917 : 158, pl. 4 fig. 12, pl. 15 figs 1-1b**Type specimen**

ref. ZMA.E2234, 1 syntype (alcohol), Siboga Expedition, station 289, S coast of Timor, 112 m

**timorensis, Evoplosoma** Aziz and Jangoux, 1985 : 274, pl. 1 figs A-E**Type specimen**

ref. ZMA.E1207, holotype (dry), Siboga Expedition, station 286, 8°50'S-127°22'E, 883 m

**tuberculosa** var. **vanstraeleni, Anthenea** Engel, 1938 : 4, pl. 1 figs 2a-c**Type specimen**

ref. ZMA.E2197, 1 syntype (alcohol), Enoe Island

**versicolor, Asterias** Sladen, 1889 : 573, pl. 104, figs 1-4

= *Asterias amurensis versicolor* Sladen, 1889; see Hayashi 1973 : 106, pl. 1 fig. 4, pl. 17 fig. 5

**Type specimens**

ref. ZMA.E2996, 2 syntypes (alcohol), Challenger Expedition, station 233-233a, off Kobé and Awadji Sima (Japan), 8-50 fathoms

**weberi, Cheiraster** Döderlein, 1921 : 37, pl. 9 figs 1-5, pl. 10 fig. 1; see also A.M. Clark 1981 : 109

**Type specimen**

ref. ZMA.E2211, holotype (alcohol), Siboga Expedition, station 156, 0°29' S - 130°5' E, Waigeu, 469 m

**weberi, Gigantaster** Döderlein, 1924 : 66, pl. 18 figs 1-1a, pl. 19 figs 1-1a, 2-2a

**Type specimen**

ref. ZMA.E2216, 1 syntype (alcohol), Siboga Expedition, station 316, 7°19'.4 S - 116°49.5 E, Paternoster Islands, 528 m; ref. ZMA.E 2217, 1 syntype (arm fragments) (alcohol), Siboga Expedition, station 43, 7°19'.8 S - 118°14'.5 E, Postillon Island, 868 m

**zebra** var. **sibogae, Astropecten** Döderlein, 1917 : 156, pl. 6 fig. 4, pl. 14 figs 7-7a

**Type specimen**

ref. ZMA.E2233, holotype Siboga Expedition, Makassar, 27-32 m

## Ophiuroidea

The Amsterdam collection houses type specimens of 168 nominal species and 2 nominal varieties of ophiuroids. Most of them are from Indonesian waters where they were collected by the Siboga Expedition (types of 164 species and 1 variety). Other species originate either from Australia (types of 2 species), Japan (type of 1 species), Mozambique (type of 1 species), North Atlantic (Danish Ingolf-Expedition; type of 1 variety), North East Pacific (Albatross Expedition; type of 1 species), or the Caribbean Sea (Blake Expedition; type or 1 species)

**abbreviata, Amphiura** Koehler, 1905 : 34, pl. 4 figs 3-5, see also Guille 1981 : 433, textfigs 2A-C, pl. 4 figs 26-27

**Type specimens**

ref. ZMA.E2264, 1 syntype (alcohol), Siboga Expedition, station 37, Sailus Ketjil (Paternoster Islands), 27 m; ref. ZMA.E2265, 1 syntype (alcohol), Siboga Expedition, station 99, 6°7'.5 N-120°26' E, 16-33 m; ref. ZMA.E2266, 1 syntype (alcohol), Siboga Expedition, Pulu Jedan (East coast of Aru Islands), 13 m

**agitata, Amphiura** Koehler, 1904 : 79, pl. 13 figs 5-7; see also Koehler 1922 : 151

**Type specimens**

ref. ZMA.E2267, 9 syntypes (alcohol), Siboga Expedition, station 105, 6°8' N-121°19' E, 275 m

**alatum, Ophiomidas** Koehler, 1904 : 26, pl. 5 figs 4-5; see also Fell 1960 : 33

**Type specimen**

ref. ZMA.E2417, holotype (alcohol), Siboga Expedition, station 88, 0°34'.6 N - 119°8'.5 E, 1301 m

**Remark**

*O. alatum* is the type species of the genus *Ophiomidas*

**altum, Ophiomusium** Koehler, 1904 : 57, pl. 10 figs 2-4; see also Koehler 1922 : 389, pl. 80 figs 6,7,12

**Type specimens**

ref. ZMA.E2045, 2 syntypes (alcohol), Siboga Expedition, station 76, 4°22'.1 S - 118°16'.9 E, 2029 m

**ambigua, Amphiura** Koehler, 1905 : 39, pl. 4 figs 9-11; see also A.M. Clark and Rowe 1971 : 80 and 96

**Type specimens**

ref. ZMA.E2268, 2 syntypes (alcohol), Siboga Expedition, station 109, Pula Tongkil (Sulu Archipelago), 13 m

**armata, Ophiothrix** Koehler, 1905 : 103, pl. 10 figs 1-2

= *Ophiothrix (Acanthophiothrix) armata* Koehler, 1905; see A.M. Clark 1966 : 647; A.M. Clark and Rowe 1971 : 84

**Type specimens**

ref. ZMA.E2042, 5 syntypes (alcohol), Banda Islands, depth unknown

**aspera, Ophiocnida** Koehler, 1905 : 29, pl. 2 figs 11-13

= *Ophiocentrus asper* (Koehler, 1905); see Koehler 1922 : 199, pl. 62 figs 7-9, pl. 96, fig. 12

**Type specimens**

ref. ZMA.E2377, 1 syntype (alcohol), Siboga Expedition, station 81, Pulu Sebangkatan, 34 m; ref. ZMA.E2378, 1 syntype (alcohol), Siboga Expedition, station 133, Lirung (Salibabu Island), 36 m

**assimilis, Ophiotoma** Koehler, 1904 : 144, pl. 28 figs 1-2; see also Koehler 1922 : 91, pl. 20 figs 1-7

**Type specimens**

ref. ZMA.E2563, 1 syntype (alcohol), Siboga Expedition, station 173, 3°27' S - 131°0'.5 E, 567 m; ref. ZMA.E2564, 3 syntypes (alcohol), Siboga Expedition, station 300, 10°48'.6 S - 123°23'.1 E, 918 m

**audax, Ophiacantha** Koehler, 1905 : 57, pl. 7 figs 1-4

**Type specimen**

ref. ZMA.E2328, holotype (alcohol), Siboga Expedition, station 51, Madura Bay (Molo Strait), 69 m

**augusta, Ophiacanta** Koehler, 1904 : 105, pl. 19 figs 5-6

**Type specimens**

ref. ZMA.E2329, 1 syntype (alcohol), Siboga Expedition, station 122, 1°58'.5 N - 125°0'.5 E, 1165-1264 m; ref. ZMA.E2330, 1 syntype (alcohol), Siboga Expedition, station 280, 8°17'.4 S - 127°30'.7 E, 1224 m

**barbara, Ophiomitrella** Koehler, 1904 : 133, pl. 26 figs 2-3, pl. 27 fig. 1

**Type specimen**

ref. ZMA.E2419, holotype (alcohol), Siboga Expedition, station 254, 5°40' S - 132°26' E, 310 m

**beauforti, Ophioteresis** Engel, 1949 : 140, textfig. 2 pl. 7 figs 1-4

= *Ophiothela venusta* (de Loriol, 1900); see Cherbonnier and Guille 1978 : 160, textfigs 62A-D, pl. 9 figs 1-6

**Type specimen**

ref. ZMA.E2487, holotype (dry), Inhaca Island (Delagoa Bay, Mozambique), Van den Horst coll.

**bellator, Astrotoma** Koehler, 1904 : 154, pl. 19 fig. 8, pl. 23 fig. 1, pl. 28 figs 8-9

= *Astrohelix bellator* (Koehler, 1904); see Döderlein 1930 : 379, pl. 1 figs 9-9b

**Type specimen**

ref. ZMA.E2044, holotype (alcohol), Siboga Expedition, station 105, 6°8' N - 121°19' E, 275 m

**Remark**

*A. bellator* is the type species of the genus *Astrohelix*

**bispinosus**, *Ophiochiton* Koehler, 1904 : 71, pl. 11 figs 3-4

**Type specimens**

ref. ZMA.E2374, 1 syntype (alcohol), Siboga Expedition, station 87, 0°32' S - 119°39'.8 E, 655 m; ref. ZMA.E2375, 2 syntypes (alcohol), Siboga Expedition, station 316, 7°19'.4 S - 116°49'.5 E, 538 m

**capax**, *Amphiura* Koehler, 1905 : 50, pl. 6 figs 1-2

= *Amphioplus (Amphioplus) capax* (Koehler, 1905); see A.M. Clark and Rowe 1971 : 78 and 101

**Type specimen**

ref. ZMA.E2269, holotype (alcohol), Siboga Expedition, station 172, Gisser Island (Ceram Laut), 18 m

**casta**, *Ophiozona* Koehler, 1904 : 22, pl. 6 figs 1-2

= *Ophiozonella casta* (Koehler, 1904); see Koehler 1922 : 423, pl. 78 figs 5-8

**Type specimens**

ref. ZMA.E2616, 2 syntypes (alcohol), Siboga Expedition, station 262, 5°53'.8 S - 132°48'.8 E, 560 m

**causata**, *Amphiura* Koehler, 1905 : 49, pl. 5 figs 5-6

**Type specimens**

ref. ZMA.E2270, 1 syntype (alcohol), Siboga Expedition, station 77, 3°27' S - 117°36' E, 59 m; ref. ZMA.E2271, 1 syntype (alcohol), Siboga Expedition, station 154, 0°7'.2 N - 130°25'.5 E, 83 m

**celata**, *Amphiura* Koehler, 1905 : 35, pl. 4 figs 6-8; see also A.M. Clark and Rowe 1971 : 80 and 98

**Type specimens**

ref. ZMA.E2272, 3 syntypes (alcohol), Ambon, reef

**cesarea**, *Amphiura* Koehler, 1905 : 44, pl. 5 figs 1-2

= *Amphioplus impressus* (Ljungman, 1867); see A.M. Clark 1970 : 63, text-figs 91-m

**Type specimens**

ref. ZMA.E2273, 1 syntype (alcohol), Siboga Expedition, station 260, 5°36'.5 S - 132°55'.2 E, 90 m; ref. ZMA.E2274, 1 syntype (alcohol), Siboga Expedition, station 51, Molo Strait, 69-91 m; ref. ZMA.E2275, 2 syntypes (alcohol), Siboga Expedition, station 261, Elat (Kei Islands), 27 m; ref. ZMA.E2276, 1 syntype (alcohol), Siboga Expedition, station 86, Dongala (Celebes), 36 m; ref. ZMA.E2277, 1 syntype (alcohol), Siboga Expedition, station 64, Kambarraji Bay, 32 m; ref. ZMA.E2278, 1 syntype (alcohol), Siboga Expedition, station 321, 6°5'.5 S - 113°30' E, 82 m; ref. ZMA.E2279, 1 syntype (alcohol), Siboga Expedition, station 193, Sanana Bay (Sula Besi); ref. ZMA.E2280, 2 syntypes (alcohol), Siboga Expedition, station 294, 10°12'.2 S - 124°29'.3 E, 73 m; ref. ZMA.E2281, 1 syntype (alcohol), Siboga Expedition, station 47, Bima Bay, 55 m; ref. ZMA.E2282, 1 syntype (alcohol), Siboga Expedition, station 116, 0°58'.5 N - 122°42'.5 E, 72 m

**citata**, *Ophioplathaca* Koehler, 1904 : 130, pl. 24 figs 5-7

**Type specimens**

ref. ZMA.E2444/1, 1 syntype (alcohol), Siboga Expedition, station 156, 0°29'.2 S - 130°5'.3 E, 469 m; ref. ZMA.E2444/2, 1 syntype (alcohol), same origin as E2444/1; ref. ZMA.E2445, 1 syntype (alcohol), Siboga Expedition, station 251, 5°28'.4 S - 132°0'.2 E, 204 m

**clandestina**, *Ophiacantha* Koehler, 1904 : 108, pl. 19 figs 1-4

**Type specimens**

ref. ZMA.E2331, 3 syntypes (alcohol), Siboga Expedition, station 85, 0°36'.5 S - 119°29'.5 E, 724 m; ref. ZMA.E2332, 1 syntype (alcohol), Siboga Expedition, station 87, 0°32' S - 119°39'.8 E, 655 m

**clarescens**, *Ophiothrix* Koehler, 1904 : 150, pl. 29 fig. 8, pl. 30 fig. 3

= ? *Ophiogymna clarescens* (Koehler, 1904); see A.M. Clark 1966 : 649

**Type specimen**

ref. ZMA.E2478, holotype (alcohol), Siboga Expedition, station 253, 5°48'.2 S - 132°13'.6 E, 304 m

**clemens**, *Ophioglypha* Koehler, 1904 : 51, pl. 8 figs 7-9

= *Ophiura clemens* (Koehler, 1904); see Koehler 1922 : 374

**Type specimens**

ref. ZMA.E2534, 6 syntypes (alcohol), Siboga Expedition, station 45, 7°24' S - 118°15'.2 E, 794 m; ref. ZMA.E2536, 1 syntype (alcohol), Siboga Expedition, station 122, 1°58'.5 N - 125°0'.5 E, 1264-1165 m; ref. ZMA.E2537, 1 syntype (alcohol), Siboga Expedition, station 177, 2°24'.5 S - 129°38'.5 E, 1633 m; ref. ZMA.E2538, 3 syntypes (alcohol), Siboga Expedition, station 178, 2°40' S - 128°37'.5 E, 835 m; ref. ZMA.E2539, 3 syntypes (alcohol), Siboga Expedition, station 211, 5°40'.7 S - 120°45'.5 E, 1158 m; ref. ZMA.E2540, 2 syntypes (alcohol), Siboga Expedition, station 300, 10°48'.6 S - 123°23'.1 E, 918 m; ref. ZMA.E2541, 7 syntypes (instead of 3 as Koehler mentioned) (alcohol), Siboga Expedition, station 314, 7°36' S - 117°30'.8 E, 69 m

**coacta**, *Amphiura* Koehler, 1905 : 33, pl. 4 figs 1-2

**Type specimen**

ref. ZMA.E2283, 2 syntypes (alcohol), Siboga Expedition, station 258, Tual (Kei Islands), 22 m

**compar**, *Astroceras* Koehler, 1904 : 158, pl. 22 fig. 5, pl. 30 fig. 9, pl. 32 fig. 3; see also Döderlein 1927 : 80, pl. 9 figs 2-2b, 3-3a

**Type specimens**

ref. ZMA.E2047, 2 syntypes (alcohol), Siboga Expedition, station 251, 5°28'.4 S - 132°0'.2 E, 204 m; ref. ZMA.E2048, 2 syntypes (alcohol), Siboga Expedition, station 254, 5°40' S - 132°26' E, 304 m

**concinna**, *Amphiura* Koehler, 1904 : 77, pl. 13 figs 1-2

**Type specimen**

ref. ZMA.E2285, holotype (alcohol), Siboga Expedition, station 227, 4°50'.5 S - 127°59' E, 2081 m

**condita**, *Amphiura* Koehler, 1905 : 46, pl. 5 figs 9-10

= *Amphioplus (Unioplus) conditus* (Koehler, 1905); see A.M. Clark and Rowe 1971 : 80 and 100

**Type specimen**

ref. ZMA.E2284, holotype (alcohol), Siboga Expedition, station 89, Pulu Kaniungan Ketjil, 11 m

**conferta**, *Ophiactis* Koehler, 1905 : 25, pl. 3 figs 15-17

= *Ophiactis savignyi* (Müller and Troschel, 1842); see Cherbonnier and Guille 1978 : 125, textfigs 57A-I

**Type specimen**

ref. ZMA.E2362, holotype (alcohol), Siboga Expedition, station 162, Loslos Island (W coast of Salawatti), 18 m

**confinis**, *Amphiura* Koehler, 1904 : 89, pl. 14 figs 7-8

= *Amphioplus confinis* (Koehler, 1904); see A.M. Clark 1970 : 58

**Type specimens**

ref. ZMA.E2286, 4 syntypes (instead of 3 as Koehler mentioned) (alcohol), Siboga Expedition, station 211, 5°40'.7 S - 120°45'.5 E, 1158 m

**confusa**, *Ophiacantha* Koehler, 1905 : 59, pl. 7 figs 9-11; see also Koehler 1922 : 47, pl. 19 figs 1-2

**Type specimen**

ref. ZMA.E2333, holotype (alcohol), Siboga Expedition, station 133, Lirung (Salibabu Island), 36 m

**congesta**, *Ophiacantha* Koehler, 1904 : 103, pl. 24 figs 1-2  
= *Ophialcoea congesta* (Koehler, 1904); see Guille 1981 : 424

**Type specimens**

ref. ZMA.E2334, 1 syntype (alcohol), Siboga Expedition, station 74, 5°3'.5 S - 119°0' E, 450 m; ref. ZMA.E2335, 2 syntypes (alcohol), Siboga Expedition, station 161, 1°10'.5 S - 130°9' E, 798 m

**contrarius**, *Ophiodoris* Koehler, 1904 : 75, pl. 12 figs 3-4; see also Koehler 1922 : 310

**Type specimens**

ref. ZMA.E2391, 1 syntype (alcohol), Siboga Expedition, station 88, 0°34'.6 N - 119°8'.5 E, 1301 m; ref. ZMA.E2392, 1 syntype (alcohol), Siboga Expedition, station 122, 1°58'.5 N - 125°0'.5 E, 1264-1165 m; ref. ZMA.E2393, 1 syntype (alcohol), Siboga Expedition, station 211, 5°40'.7 S - 120°45'.5 E, 1158 m; ref. ZMA.E2394, 2 syntypes (alcohol), Siboga Expedition, station 280, 8°17'.4 S - 127°30'.7 E, 1224 m

**Remark**

The genus *Ophiodoris* was erected by Koehler (1904:72) for the species *O. contrarius*, *O. erans* and *O. malignus*

**corallicola**, *Ophiomastix* H.L. Clark, 1915 : 294, pl. 16 figs 1-2; see also H.L. Clark 1946 : 250; A.M. Clark and Rowe 1971 : 86, 120

**Type specimen**

ref. ZMA.E2490, 1 paratype (dry), Mer (Murray Island, N Australia), leg. Harvard Museum

**coronata**, *Ophiothrix* Koehler, 1905 : 91, pl. 9 figs 8-9

= ? *Macrophiothrix coronata* (Koehler, 1905); see A.M. Clark 1966 : 649

**Type specimen**

ref. ZMA.E2479, holotype (alcohol), Siboga Expedition, station 154.0°7.2 N - 130°25'.5 E, 83 m

**crassa**, *Amphiura* Koehler, 1904 : 83, pl. 15 figs 1-2

= *Amphioda crassa* (Koehler, 1904); see Koehler 1922 : 167, pl. 69 fig. 11

**Type specimens**

ref. ZMA.E2288, 1 syntype (alcohol), Siboga Expedition, station 74, 5°3'.5 S - 119°0' E, 450 m; ref. ZMA.E2289, 1 syntype (alcohol), Siboga Expedition, station 137, 2°50'.5 S - 126°53'.7 E, 2291 m

**crassispina**, *Ophiothrix* Koehler, 1904 : 147, pl. 28 figs 3-5, pl. 29 fig. 1, pl. 30 fig. 4; see also Guille 1981 : 441

**Type specimen**

ref. ZMA.E2480, 1 syntype (alcohol), Siboga Expedition, station 312, 8°19' S - 117°41' E, 274 m

**cupida**, *Ophioconis* Koehler, 1905 : 15, pl. 1 figs 19-20; see also A.M. Clark and Rowe 1971 : 88 and 127

**Type specimens**

ref. ZMA.E2004, 2 syntypes (alcohol), Siboga Expedition, station 99, 6°6' N - 120°26' E, 16-23 m; ref. ZMA.E2005, 1 syntype (alcohol), Siboga Expedition, station 144, Salomakië Island (Damas), 45 m; ref. ZMA.E2035, 2 syntypes (alcohol), Siboga Expedition, station 109, Pulu Tongkil (Sulu), 13 m

**debilis**, *Amphiura* Koehler, 1904 : 88, pl. 14 figs 5-5

= *Amphioplus (Amphioplus) debilis* (Koehler, 1904); see A.M. Clark 1970 : 57, 66

**Type specimens**

ref. ZMA.E2290, 4 syntypes (alcohol), Siboga Expedition, station 211, 5°40'.7 S - 120°45'.5 E, 1158 m

**declinans**, *Ophioceramis* Koehler, 1904 : 15, pl. 3 figs 8-9

= *Ophioplocus declinans* (Koehler, 1904); see Guille 1981 : 451

**Type specimens**

ref. ZMA.E2372, 2 syntypes (alcohol), Siboga Expedition, station 251, 5°28'.4 S - 132°0'.2 E, 204 m

**delata**, *Ophiomyces* Koehler, 1904 : 100, pl. 17 fig. 9, pl. 19 figs 1-2; see also Koehler 1922 : 41, pl. 22 figs 11-12, pl. 96 fig. 13

**Type specimen**

ref. ZMA.E2043, 1 syntype (alcohol), Siboga Expedition, station 98, 6°9' N - 120°20' E, 350 m

**delatum**, *Ophoipyren* Koehler, 1904 : 10, pl. 3 figs 6-7

**Type specimen**

ref. ZMA.E2463, holotype (alcohol), Siboga Expedition, station 316, 7°19'.4 S - 116°49'.5 E, 538 m

**deposita**, *Ophiothrix* Koehler, 1904 : 146, pl. 29 figs 4-7; see also A.M. Clark 1966 : 647

**Type specimens**

ref. ZMA.E2481, 1 syntype (alcohol), Bima Bay; ref. ZMA.E2482, 1 syntype (alcohol), Siboga Expedition, station 251, 5°28'.4 S - 132°0'.2 E, 204 m; ref. ZMA.E2484, 2 syntypes (alcohol), Siboga Expedition, station 254, 5°40' S - 132°26' E, 310 m; ref. ZMA.E2485, 1 syntype (alcohol), Siboga Expedition, station 297, 10°39' S - 123°40' E, 520 m

**depressa** var. **media**, *Ophiozona* Koehler, 1904 : 24, pl. 4 figs 11-12 = *Ophiozonella media* (Koehler, 1904); see Koehler 1922 : 424, pl. 78 figs 9-10

**Type specimens**

ref. ZMA.E2565, 1 syntype (alcohol), Siboga Expedition, station 122, 1°58'.5 N - 125°0'.5 E, 1264 m; ref. ZMA.E2566, 3 syntypes (alcohol), Siboga Expedition, station 280, 8°17'.4 S - 127°30'.7 E, 1224 m; ref. ZMA.E2567, 1 syntype (alcohol), Siboga Expedition, station 300, 10°58'.4 S - 123°23'.1 E, 918 m

**depressus**, *Ophiopyrgus* Koehler, 1904 : 31, pl. 4 figs 9-10

**Type specimen**

ref. ZMA.E2462, holotype (alcohol), Siboga Expedition, station 76, 4°22'.1 S - 118°16'.9 E, 2029 m

**dilatata**, *Ophiocnida* Koehler, 1905 : 30, pl. 12 figs 2-4

= *Ophiocentrus dilatatus* (Koehler, 1905); see A.M. Clark and Rowe 1971 : 80 and 94

**Type specimens**

ref. ZMA.E2380, 10 syntypes (alcohol), Siboga Expedition, station 93, Pulu Sanguisiapo, 12 m; ref. ZMA.E2381, 1 syntype (alcohol), Siboga Expedition, station 99, 6°7'.5 N - 120°26' E, 16-23 m; ref. ZMA.E2382, 1 syntype (alcohol), Siboga Expedition, station 133, Salomakië Island (Damar), 45 m; ref. ZMA.E2383, 3 syntypes (alcohol), Siboga Expedition, station 273, Pulu Jedan (E coast of Aru Islands), 13 m

**dilecta**, *Ophiacantha* Koehler, 1904 : 117, pl. 22 figs 3-4

**Type specimens**

ref. ZMA.E2336, 1 syntype (alcohol), Siboga Expedition, station 45, 7°24' S - 118°15'.2 E, 794 m; ref. ZMA.E2337, 1 syntype (alcohol), Siboga Expedition, station 85, 0°36'.5 S - 119°29'.5 E, 724 m

**dissidens**, *Ophiacantha* Koehler, 1905 : 56, pl. 7 figs 12-15; see also A.M. Clark and Rowe 1971 : 78

**Type specimen**

ref. ZMA.E2338, holotype (alcohol), Siboga Expedition, station 89, Pulu Kaniungan Ketjil, 11 m

**dissidens**, *Ophiactis* Koehler, 1904 : 98, pl. 17 fig. 10, pl. 18 fig. 7

= ? *Ophiophiura dissidens* (Koehler, 1904); see A.M. Clark 1970 : 75

**Type specimen**

ref. ZMA.E2363, holotype (alcohol), Siboga Expedition, station 88, 0°34'6 N - 119°8'.5 E, 1301 m

**distincta, Ophioglypha** Koehler, 1904 : 44, pl. 9 figs 7-9

= *Amphiophiura distincta* (Koehler, 1904); see Koehler 1930 : 224

**Type specimens**

ref. ZMA.E2036, 1 syntype (alcohol), Siboga Expedition, station 95, 7°24' S - 118°15'.2 E, 794 m; ref. ZMA.E2037, 4 syntypes (alcohol), Siboga Expedition, station 302, 10°27.9 S - 123°28'.7 E, 216 m

**elegans, Astrophyton** Koehler, 1905 : 123, pl. 13 fig. 2, pl. 18 fig. 1

= *Asroboa nuda* (Lyman, 1874); see Döderlein 1927 : 43, pl. 5 figs 1,2,4

**Type specimen**

ref. ZMA.E2326, holotype (alcohol), Siboga Expedition, station 305, off Kampong Menanga (Solor Strait), 113 m

**erinaceus, Ophiobryella** Koehler, 1904 : 142, pl. 26 figs 8-9; see also Koehler 1930 : 51

**Type specimen**

ref. ZMA.E2365, holotype (alcohol), Siboga Expedition, station 105, 6°8' N - 121°19' E, 275 m

**errans, Ophiodoris** Koehler, 1904 : 74, pl. 12 figs 1-2

**Type specimens**

ref. ZMA.E2395, 2 syntypes (alcohol), Siboga Expedition, station 266, 5°56'.5 S - 132°47'.7 E, 59 m

Remark : The genus *Ophiodoris* was erected by Koehler (1904:72) for the species *O. contrarius*, *O. errans* and *O. malignus*

**exhibita, Ophiothrix** Koehler, 1905 : 110, pl. 10 figs 10-13

= *Ophiothrix (Acanthophiothrix) exhibita* Koehler, 1905; see A.M. Clark 1966 : 648

**Type specimens**

ref. ZMA.E2486, 2 syntypes (alcohol), Siboga Expedition, station 312, 8°19' S - 117°41' E, 274 m

**exilis, Ophiopeza** Koehler, 1905 : 12, pl. 2 figs 6-8; see also Koehler 1930 : 270 (as *Pectinura*)

= *Pectinura yoldii* (Lütken, 1856); see H.L. Clark 1946 : 257

**Type specimens**

ref. ZMA.E2441, 1 syntype (alcohol), Siboga Expedition, station 65a, 7°0' S - 120°34'.5 E, 400-120 m; ref. ZMA.E2442, 1 syntype (alcohol), Siboga Expedition, station 154, 0°7'.2 N - 130°25'.5 E, 83 m; ref. ZMA.E2443, 1 syntype (alcohol), Siboga Expedition, station 260, 5°36'.5 S - 132°55'.2 E, 90 m

**eximia, Ophiacantha** Koehler, 1904 : 116, pl. 21 figs 3-5

= *Ophiotreta eximia* (Koehler, 1904); see Koehler 1922 : 70, pl. 8 figs 506, pl. 93, fig. 7

**Type specimens**

ref. ZMA.E2339, 3 syntypes (alcohol), Siboga Expedition, station 45, 7°24' S - 118°15'.2 E, 794 m; ref. ZMA.E2340, 1 syntype (alcohol), Siboga Expedition, station 85, 0°36'.5 S - 119°29'.5 E, 724 m; ref. ZMA.E2341, 1 syntype (alcohol), Siboga Expedition, station 271, 5°46'.7 S - 134°0' E, 1788 m

**expedita, Ophiothrix** Koehler, 1905 : 96, pl. 9 figs 10-14, pl. 15 fig. 5

= *Macrophiothrix expedita* (Koehler, 1905); see A.M. Clark 1966 : 648; A.M. Clark and Rowe 1971 : 82 and 113

**Type specimens**

ref. ZMA.E2521, 5 syntypes (alcohol), Siboga Expedition, station 96, S.E. coast of Pearl Bank (Sulu), 12 m; ref. ZMA.E2522, 3 syntypes (alcohol), Siboga Expedition, station 49a, 8°23'.5 S - 119°4'.6 E, 69 m; ref. ZMA.E2523,

1 syntype (alcohol), Siboga Expedition, station 109, Pulu Tongkil (Sulu), 13 m; ref. ZMA.E2526, 1 syntype (alcohol), Siboga Expedition, station 127, Taruna Bay (Great Sangir Island), 45 m; ref. ZMA.E2527, 1 syntype (alcohol), Siboga Expedition, station 40, Pulu Kawassang (Paternoster Islands), 12 m; ref. ZMA.E2528, 1 syntype (alcohol), Siboga Expedition, station 93, Pulu Sanguisiapo (Tawi-Tawi Island, Sulu), 12 m; ref. ZMA.E2329, 1 syntype (alcohol), Siboga Expedition, station 310, 8°30' S - 119°7'.5 E, 73 m; ref. ZMA.E2330, 1 syntype (alcohol), Siboga Expedition, station 33, Pidjot Bay (Lombok), 22 m

**exsecrata, Amphiuira** Koehler, 1905 : 48, pl. 3 figs 7-8

= *Amphioplus (Amphioplus) exsecrata* (Koehler, 1905); see A.M. Clark and Rowe 1971 : 78 and 101

**Type specimen**

ref. ZMA.E2291, holotype (alcohol), Ambon reef

**fallax, Ophiomusium** Koehler, 1904 : 56, pl. 9 figs 10-11, pl. 10 fig. 1

**Type specimens**

ref. ZMA.E2406, 3 syntype (alcohol), Siboga Expedition, station 156, 0°29'.2 S - 130°5'.3 E, 469 m

**fastosum, Astrochema** Koehler, 1904 : 161, pl. 28 fig. 10, pl. 32 figs 7-8, pl. 33 fig. 3, pl. 34 fig. 1; see also Döderlein 1930 : 390, textfigs 22b-c, pl. 3 fig. 6

**Type specimens**

ref. ZMA.E2509, 4 syntypes (alcohol), Siboga Expedition, station 122, 1°58'.5 N - 125°0'.5 E, 1264-1165 m

**fausta, Ophiacantha** Koehler, 1904 : 104, pl. 20 figs 2-3; see also Koehler 1930 : 59

**Type specimens**

ref. ZMA.E2342, 2 syntypes (alcohol), Siboga Expedition, station 253, 5°48'.2 S - 132°13' E, 304 m

**ferox, Astrochema** Koehler, 1904 : 162, pl. 32 figs 4-6, pl. 33 figs 1-2; see also Guille 1981 : 421, pl. 1 figs 3-4

**Type specimens**

ref. ZMA.E2510, lectotype (alcohol) (designed by A.N. Baker), Siboga Expedition, station 251, 5°28'.4 S - 132°0'.2 E, 204 m; ref. ZMA.E2511, 15 paralectotypes (alcohol), same origin

**ficta, Ophiacantha** Koehler, 1904 : 121, pl. 16 figs 1-4

**Type specimens**

ref. ZMA.E2343, holotype (alcohol), Siboga Expedition, station 251, 5°28'.4 S - 132°0'.2 E, 204 m

**firma, Amphiuira** Koehler, 1904 : 87, pl. 12 figs 7-8

= *Amphioplus (Amphioplus) firmus* (Koehler, 1904); see A.M. Clark 1970 : 61

**Type specimens**

ref. ZMA.E2992, 2 syntypes (alcohol), Siboga Expedition, station 159, 0°59'.1 S - 129°48'.8 E, 411 m

**formata, Amphiuira** Koehler, 1905 : 51, pl. 5 figs 11-13, pl. 16 fig. 6

= *Ophiodaphne formata* (Koehler, 1905); see Guille 1981 : 435

**Type specimen**

ref. ZMA.E2006, holotype (alcohol), Siboga Expedition, station 310 (8°30' S - 119°7'.5 E, 73 m) or 312 (8°19' S - 117°41' E, 274 m)

**fulgens, Ophiothrix** Koehler, 1905 : 107, pl. 10 figs 3-6

= *Ophiogymna fulgens* (Koehler, 1905); see Koehler 1922 : 288, pl. 42 figs 1-8, pl. 43 figs 9-10, pl. 44 fig. 8, pl. 60 fig. 6, pl. 103 fig. 8

**Type specimens**

ref. ZMA.E2513, 1 syntype (alcohol), Siboga Expedition, station 260, 5°36'.5 S - 132°55'.2 E, 90 m; ref. ZMA.E2514, 6 syntypes (alcohol), Siboga Expedition, station 315, E of Sailus Besar (Paternoster Islands), 36 m

**gentilis, Amphiuira** Koehler, 1904 : 86, pl. 16 figs 8-9

= *Amphioplus (Unioplus) gentilis* (Koehler, 1904); see A.M. Clark 1970 : 62, textfigs 8r, 11g

**Type specimen**

ref. ZMA.E2293, 9 syntypes (alcohol), Siboga Expedition, station 178, 2°40' S - 128°37'.5 E, 835 m

**gracile, Astrophyton** Koehler, 1905 : 125, pl. 17 figs 1-2

= *Astroglymna sculptum* Döderlein, 1896; see Döderlein 1927 : 47, pl. 1 figs 3-4, pl. 5 fig. 13

**Type specimen**

ref. ZMA.E2327, holotype (alcohol), Siboga Expedition, station 310, 8°30' S - 119°7'.5 E, 73 m

**grandisquama, Ophioconis** Koehler, 1904 : 11, pl. 2 figs 11-12**Type specimen**

ref. ZMA.E2384, holotype (alcohol), Siboga Expedition, station 156, 0°29'.2 S - 130°5'.3 E, 469 m

**grata, Amphiuira** Koehler, 1904 : 85, pl. 12 fig. 6, pl. 19 fig. 7

= *Amphioplus (Unioplus) gratus* (Koehler, 1904); see A.M. Clark 1970 : 62, textfig. 8k

**Type specimens**

ref. ZMA.E2294, 2 syntypes (alcohol), Siboga Expedition, station 211, 5°40'.7 S - 120°45'.5 E, 1158 m

**hilaris, Amphiuira** Koehler, 1904 : 80, pl. 15 figs 9-10**Type specimen**

ref. ZMA.E2295, holotype (alcohol), Siboga Expedition, station 88, 0°34'.6 N - 119°8'.5 E, 1301 m

**honorata, Pectinura** Koehler, 1904 : 8, pl. 2 figs 1-3

= *Ophiarachnella honorata* (Koehler, 1904); see Koehler 1922 : 340

**Type specimens**

ref. ZMA.E2573, 3 syntypes (alcohol), Siboga Expedition, station 253, 5°48'.2 S - 132°13'.6 E, 304 m

**humilis, Ophioglypha** Koehler, 1904 : 39, pl. 7 figs 1-3

= *Ophiozonella humilis* (Koehler, 1904); see Koehler 1930 : 254

**Type specimens**

ref. ZMA.E2399, 12 syntypes (alcohol), Siboga Expedition, station 65a, 7°5' S - 120°34'.5 E, 400-120 m

**imperita, Ophiacantha** Koehler, 1904 : 114, pl. 17 figs 1-3**Type specimen**

ref. ZMA.E2344, holotype (alcohol), Siboga Expedition, station 271, 5°46'.7 S - 134°0' E, 1788 m

**improba, Ophioglypha** Koehler, 1904 : 48, pl. 8 figs 4-6

= *Amphiophiura improba* (Koehler, 1904); see Koehler 1922 : 362, pl. 84 figs 4-5

**Type specimens**

ref. ZMA.E2400, 2 syntypes (alcohol), Siboga Expedition, station 226, 5°26'.7 S - 127°36'.5 E, 1595 m

**impurum, Ophiomusium** Koehler, 1904 : 64, pl. 10 figs 8-10**Type specimens**

ref. ZMA.E2038, 3 syntypes (alcohol), station 65a, 7°0' S - 120°34'.5 E, 120 m; ref. ZMA.E2039, 3 syntypes (alcohol), station 253, 3°48'.2 S - 132°13' E,

304 m

**inermis, Ophiacampsis** Koehler, 1905 : 115, pl. 13 fig 7

= *Ophiogymna elegans* Ljungman, 1866; see Koehler 1922 : 281, pl. 43 figs 3-8, pl. 103 fig. 4

**Type specimens**

ref. ZMA.E2373/1, 6 syntypes (alcohol), Siboga Expedition, station 258, Tual (Kei Islands), 22 m; ref. ZMA.E2373/2 & 3, 2 syntypes (alcohol), Siboga Expedition, station 305, Banda, 9-36 m

**infirma, Ophiothrix** Koehler, 1905 : 89, pl. 8 figs 10-13; see also Guille 1981 : 441**Type specimens**

ref. ZMA.E2515, 4 syntypes (alcohol), Siboga Expedition, station 51, Molo Strait, 54-90 m; ref. ZMA.E2516, 1 syntype (alcohol), Siboga Expedition, station 260, 5°36'.5 S - 132°55'.2 E, 90 m

**insolita, Ophioglypha** Koehler, 1904 : 47, pl. 7 figs 4-6

= *Amphiophiura insolita* (Koehler, 1904); see Koehler 1922 : 362, pl. 84 figs 8-9

**Type specimens**

ref. ZMA.E2401, 2 syntypes (alcohol), Siboga Expedition, station 139, 0°11' S - 127°25' E, 397 m; ref. ZMA.E2402, 3 syntypes (instead of 1 as Koehler mentioned) (alcohol), Siboga Expedition, station 251, 5°28'.4 S - 132°0'.2 E, 204 m

**instans, Amphiuira** Koehler, 1905 : 38, pl. 3 figs 4-6**Type specimen**

ref. ZMA.E2297, holotype (alcohol), Siboga Expedition, station-274, 5°28'.2 S - 134°53'.9 E, 57 m

**intermedia, Amphiuira** Koehler, 1905 : 42, pl. 4 figs 14-15

= *Amphioplus (Amphioplus) intermedius* (Koehler, 1905); see A.M. Clark and Rowe 1971 : 98 and 101

**Type specimen**

ref. ZMA.E2298, 1 syntype (alcohol), Siboga Expedition, station 77, 3°24' S - 117°36' E, 59 m

**inutilis, Ophiacantha** Koehler, 1904 : 111, pl. 21 figs 6-8

= *Ophiotreta gratiosa* (Koehler, 1904); see Guille 1981 : 427

**Type specimens**

ref. ZMA.E2345, 2 syntypes (alcohol), Siboga Expedition, station 12, 7°15' S - 115°15'.6 E, 289 m; ref. ZMA.E2346, 1 syntype (alcohol), Siboga Expedition, station 253, 3°48'.2 S - 132°0'.5 E, 238 m; ref. ZMA.E2347, 1 syntype (alcohol), Siboga Expedition, station 256, 5°26'.6 S - 132°32'.5 E, 397 m

**inutilis, Ophiocirce** Koehler, 1904 : 13, pl. 3 figs 4-5; see also Guille 1981 : 433**Type specimens**

ref. ZMA.E2533, 4 syntypes (alcohol), Siboga Expedition, station 289, 9°0'.3 S - 126°24'.5 E, 112 m

**irrorata, var. polyacantha, Ophiura** Mortensen, 1933 : 87, pl. 3 figs 31-32**Type specimen**

ref. ZMA.E2489, 1 syntype (dry), Danish Ingolf-Expedition, station 20, leg. Copenhagen Museum

**languicauda, Ophiomitrella** Koehler, 1904 : 135, pl. 29 figs 2-3**Type specimen**

ref. ZMA.E2420, holotype (alcohol), Siboga Expedition, station 74, 5°3'.5 S - 119°0' E, 450 m

**latro, Ophioglypha** Koehler, 1904 : 41, pl. 9 figs 4-6

= ? *Ophiura latro* (Koehler, 1904); see Remark

**Type specimen**

ref. ZMA.E2403, holotype (alcohol), Siboga Expedition, station 251, 5°28'4S-132°0'2E, 204 m

**Remark**

*Ophioglypha* is a junior synonym of *Ophiura* (Fell 1960:32)

**laudata, Ophioglypha** Koehler, 1904 : 43, pl. 8 figs 1-3

= ? *Ophiura laudata* (Koehler, 1904); see Remark

**Type specimens**

ref. ZMA.E2402, 2 syntypes (alcohol), Siboga Expedition station 100, 6°11' N - 120°37.5 E, 450 m

**Remark**

*Ophioglypha* is a junior synonym of *Ophiura* (Fell 1960:32)

**lenta, Ophioglypha** Koehler, 1904 : 53, pl. 8 figs 12-13

= ? *Ophiura lenta* (Koehler, 1904); see Remark

**Type specimen**

ref. ZMA.E2405, holotype (alcohol), Siboga Expedition, station unknown

**Remark**

*Ophioglypha* is a junior synonym of *Ophiura* (Fell 1960:32). A second specimen (ref. ZMA.E2387), presumably identified by Koehler, was collected at station 76

**levis, Ophiolypus** Koehler, 1904 : 21, pl. 4 figs 4-6

**Type specimens**

ref. ZMA.E2412, 1 syntype (alcohol), Siboga Expedition, station 156, 0°29'.2 S - 130°56'.3 E, 469 m; ref. ZMA.E2413, 1 syntype (alcohol), Siboga Expedition, station 178, 2°40' S - 128°37.5 E, 835 m

**liberata, Ophioglypha** Koehler, 1904 : 46, pl. 7 figs 7-9

= ? *Ophiura liberata* (Koehler, 1904); see remark

**Type specimen**

ref. ZMA.E2615, holotype (alcohol), Siboga Expedition, station 178, 2°40' S - 128°37.5 E, 835 m

**Remark**

*Ophioglypha* is a junior synonym of *Ophiura* (Fell, 1960:32)

**luctuosa, Ophiacantha** Koehler, 1904 : 115, pl. 20 figs 4-5

**Type specimen**

ref. ZMA.E2348, holotype (alcohol), Siboga Expedition, station 302, 10°29'.9 S - 123°28'.7 E, 216 m

**malignus, Ophiodoris** Koehler, 1904 : 73, pl. 12 figs 5-5; see also Koehler 1922 : 311

**Type specimens**

ref. ZMA.E2396, 15 syntypes (alcohol), Siboga Expedition, station 105 (instead of station 100 as Koehler mentioned), 6°11' S - 120°37.5 E, 450 m; ref. ZMA.E2397, 3 syntypes (alcohol), Siboga Expedition, station 156, 0°29'.2 S - 130°5'.3 E, 469 m

**Remark**

The genus *Ophiodoris* was erected by Koehler (1904:72) for the species *O. contrarius*, *O. errans* and *O. malignus*

**marginata, Ophiothrix** Koehler, 1905 : 79, pl. 8 figs 7-9; see also A.M. Clark 1966 : 647; A.M. Clark and Rowe 1971 : 85

**Type specimens**

ref. ZMA.E2517, 17 syntypes (alcohol), Siboga Expedition, station 273, Pulu Jedan (E coast of Aru Islands), 13 m

**matura, Ophiacantha** Koehler, 1904 : 112, pl. 23 figs 2-4

= *Ophopretia matura* (Koehler, 1904); see Koehler 1922 : 76, pl. 12 figs 1-6,

pl. 13 figs 1-5, pl. 14 figs 1-5, pl. 15 figs 1-3, pl. 95 fig. 2

**Type specimens**

ref. ZMA.E2349, 2 syntypes (alcohol), Siboga Expedition, station 256, 5°26'.6 S - 132°32'.5 E, 797 m

**migrator, Asterochema** Koehler, 1904 : 164, pl. 24 fig. 8, pl. 30 figs 5-7, pl. 35 fig. 1; see also Baker 1980 : 22, figs 5 and 9

**Type specimen**

ref. ZMA.E2512, holotype (alcohol), Siboga Expedition, station 88, 0°34'.6 N - 119°8'.5 E, 1301 m

**miles, Ophiothrix** Koehler, 1905 : 90, pl. 9 figs 1-4; see also A.M. Clark 1966 : 647

**Type specimen**

ref. ZMA.E2542, holotype (alcohol), Siboga Expedition, station unknown

**miranda, Ophioplithaca** Koehler, 1904 : 123, pl. 31 figs 1-2

**Type specimens**

ref. ZMA.E2446, 2 syntypes (alcohol), Siboga Expedition, station 267, 5°54' S - 132°56'.7 E, 984 m

**mitis, Ophiolithaca** Koehler, 1904 : 127, pl. 25 figs 1-3

**Type specimens**

ref. ZMA.E2447, 5 syntypes (instead of 1 as Koehler mentioned) (alcohol), Siboga Expedition, station 251, 5°28'.4 S - 132°0'.2 E, 204 m; ref. ZMA.E2448, 8 syntypes (alcohol), Siboga Expedition, station 253, 5°48'.2 S - 132°13' E, 304 m

**mixta, Ophiochaeta** Lyman, 1878 : 222, pl. 2 figs 40-42; see also H.L. Clark 1915 : 216

**Type specimen**

ref. ZMA.E3005, 1 syntype (alcohol), Blake Expedition, off Havana (Cuba), 160-242 fathoms, leg. Harvard Museum

**mobilis, Amphilepis** Koehler, 1904 : 94, pl. 20 figs 6-7; see also Cherbonnier and Guille 1978 : 133, textfigs 60A-C

**Type specimens**

ref. ZMA.E2318, 3 syntypes (alcohol), Siboga Expedition, station 5, 7°46' S - 114°30'.5 E, 330 m; ref. ZMA.E2319, 1 syntype (alcohol), Siboga Expedition, station 22a, 8°47'.7 S - 115°41'.2 E, 220 m; ref. ZMA.E2320, 1 syntype (alcohol), Siboga Expedition, station 302, 11°27'.9 S - 123°28'.7 E, 216 m

**modesta, Pectinura** Koehler, 1904 : 7, pl. 2 figs 4-6

= *Bathypectinura heros* (Lyman, 1879); see Guille 1981 : 447

**Type specimen**

ref. ZMA.E2574, holotype (alcohol), Siboga Expedition, station 5, 7°46' S - 114°30' E, 330 m

**molesta, Ophiozona** Koehler, 1904 : 23, pl. 6 figs 3-5

= *Ophiozonella molesta* (Koehler, 1904); see Guille 1981 : 451

**Type specimen**

ref. ZMA.E2568, holotype (alcohol), Siboga Expedition, station 101, 6°15' N - 120°21' E, 1270 m

**moniliformis, Ophiomitrella** Koehler, 1904 : 136, pl. 27 figs 2-4

**Type specimens**

ref. ZMA.E2421, 65 syntypes (alcohol), Siboga Expedition, station 227, 4°50'.5 S - 127°59' E, 2081 m

**morosa, Amphiuira** Koehler, 1905 : 37, pl. 3 figs 12-14

**Type specimen**

ref. ZMA.E2299, 3 syntypes (instead of 2 as Koehler mentioned) (alcohol), Siboga Expedition, station 162, between Lolos and Gebroken Islands (W

coast of Salawatti), 18 m

**multispina, Ophiotholia** Koehler, 1904 : 99, pl. 33 figs 4-5

**Type specimens**

ref. ZMA.E2473, 3 syntypes (alcohol), Siboga Expedition, station 137, 0°23'8 N - 127°29' E, 472 m; ref. ZMA.E2474, 4 syntypes (alcohol), Siboga Expedition, station 159, 0°59'1 S - 129°48'8 E, 411 m; ref. ZMA.E2475, 1 syntype (alcohol), Siboga Expedition, station 173, 3°27' S - 131°0'5 E, 567 m; ref. ZMA.E2476, 4 syntypes (alcohol), Siboga Expedition, station 212, 5°54'5 S - 129°19'2 E, 462 m; ref. ZMA.E2477, 2 syntypes (alcohol), Siboga Expedition, station 302, 10°27'9 S - 123°29'7 E, 216 m

**munitus, Astrogomphus** Koehler, 1904 : 157, pl. 22 fig. 6, pl. 32 fig. 1

= *Astrozona munita* (Koehler, 1904); see Döderlein 1930 : 378, pl. 2 figs 3-3a

**Type specimen**

ref. ZMA.E2057, holotype (alcohol), Siboga Expedition, station 150, 0°6' N - 127°7'2 E, 1089 m

**Remark**

*A. minutus* is the type species of the genus *Astrozona*

**mutata, Ophiomitrella** Koehler, 1904 : 134, pl. 3 figs 1-2

**Type specimens**

ref. ZMA.E2422, 1 syntype (alcohol), Siboga Expedition, station 251, 5°28'4 S - 132°0'2 E, 204 m; ref. ZMA.E2423, 2 syntypes (alcohol), Siboga Expedition, station 253, 5°48'2 S - 132°13' E, 304 m

**neglecta, Ophiodera** Koehler, 1904 : 153, pl. 28 figs 6-7

**Type specimens**

ref. ZMA.E2388, 1 syntype (alcohol), Siboga Expedition, station 97, 5°48'7 N - 119°46'6 E, 564 m; ref. ZMA.E2389, 1 syntype (alcohol), Siboga Expedition, 0°29'2 S - 130°5'3 E, 469 m; ref. ZMA.E2390, 1 syntype (alcohol), Siboga Expedition, 5°56'5 S - 132°47'7 E, 595 m

**nitens, Pectinura** Koehler, 1905 : 10, pl. 1 figs 10-12

= *Ophiarachnella nitens* (Koehler, 1905); see Koehler 1922 : 341

**Type specimen**

ref. ZMA.E2575, holotype (alcohol), Siboga Expedition, station 49a, 8°23'5 S - 119°4'6 E, 69 m

**nobilis, Ophiothrix** Koehler, 1905 : 83, pl. 11 figs 1-2, pl. 15 fig. 4

= *Macrophiothrix nobilis* (Koehler, 1905); see A.M. Clark 1966 : 649

**Type specimen**

ref. ZMA.E2543, holotype (alcohol), Siboga Expedition, station 260, 5°36'5 S - 143°55'2 E, 90 m

**nociva, Amphiura** Koehler, 1904 : 78, pl. 15 figs 3-5

**Type specimen**

ref. ZMA.E2300, holotype (alcohol), Siboga Expedition, station 251, 5°28'4 S - 132°0'2 E, 204 m

**nodosa, Ophioglyptis** Koehler, 1905 : 121, pl. 12 figs 11-14; see also Guille 1981 : 423

**Type specimens**

ref. ZMA.E2408, 2 syntypes (alcohol), Siboga Expedition, station 260, 5°36'5 S - 132°55'23 E, 90 m; ref. ZMA.E2409, 2 syntypes (alcohol), Siboga Expedition, station 305, Kampong Menanga (Solor Strait), 113 m

Remark : *O. nodosa* is the type species of the genus *Ophioglyptis*

**obtusa, Ophiothrix** Koehler, 1905 : 98, pl. 11 figs 6-10, pl. 16 fig. 5

= *Macrophiothrix obtusa* (Koehler, 1905); see A.M. Clark 1966 : 648

**Type specimens**

ref. ZMA.E2558, 1 syntype (alcohol), Siboga Expedition, station 49a, 8°23'5 S - 119°4'6 E, 69 m; ref. ZMA.E2559, 4 syntypes (alcohol), Siboga Expedition, station 51, Molo Strait, 69-91 m; ref. ZMA.E260, 2 syntypes (instead of 1 as Koehler mentioned), Siboga Expedition, station 315, Kampong Menanga (Solor Strait), 113 m

**ornata, Ophiochrysis** Koehler, 1904 : 35, pl. 6 figs 6-8

**Type specimens**

ref. ZMA.E2376, 3 syntypes (alcohol), Siboga Expedition, station 280, 8°17'4 S - 127°30'7 E, 1224 m

**Remark**

*O. ornata* is the type species of the genus *Ophiochrysis*

**ornata, Ophiomastix** Koehler, 1905 : 71, pl. 6 figs 13-14

**Type specimen**

ref. ZMA.E2414, holotype (alcohol), Siboga Expedition, station 81, Pulu Sebangkatan (Borneo Bank), 34 m

**paradoxa, Ophiopallas** Koehler, 1904 : 12, pl. 3 figs 1-3; see also Guille 1981 : 433

**Type specimens**

ref. ZMA.E2435, 1 syntype (alcohol), Siboga Expedition, station 74, 5°3'5 S - 119°0' E, 450 m; ref. ZMA.E2436, 1 syntype (alcohol), Siboga Expedition, station 159, 0°59'1 S - 129°48'8 E, 411 m; ref. ZMA.E2437, 4 syntypes (alcohol), Siboga Expedition, station 251, 5°28'4 S - 132°0'2 E, 20 m

**Remark**

*O. paradoxa* is the type species of the genus *Ophiopallas*

**parata, Ophiactis** Koehler, 1904 : 97, pl. 24 figs 3-4

= *Ophiocopa parata* (Koehler, 1904); see A.M. Clark 1970 : 74

**Type specimens**

ref. ZMA.E2364, 2 syntypes (alcohol), Siboga Expedition, station 156, 0°29'2 S - 130°5'3 E, 469 m

**paucispina, Pectinura** Koehler, 1905 : 4, pl. 1 figs 13-15

**Type specimens**

ref. ZMA.E2576, 1 syntype (alcohol), Siboga Expedition, station 81, Pulu Sebangkatan (Borneo Bank), 34 m; ref. ZMA.E2577, 1 syntype (alcohol), Siboga Expedition, station 154, 6°7'2 N - 130°25'5 E, 83 m

**perfida, Ophiacantha** Koehler, 1904 : 118, pl. 23 figs 5-6

= *Ophiolimna perfida* (Koehler, 1904); see Guille 1981 : 431

**Type specimens**

ref. ZMA.E2531, 10 syntypes (alcohol), Siboga Expedition, station 52, 9°3'4 S - 119°56'7 E, 959 m; ref. ZMA.E2581, 1 syntype (alcohol), Siboga Expedition, station 45, 7°24' S - 118°15'2 E, 794 m; ref. ZMA.E2582, 2 syntypes (alcohol), Siboga Expedition, station 85, 0°36'5 S - 119°29'5 E, 724 m; ref. ZMA.E2583, 1 syntype (alcohol), Siboga Expedition, station 159, 0°59'1 S - 129°48'8 E, 411 m; ref. ZMA.E2584, 4 syntypes (alcohol), Siboga Expedition, station 178, 2°40' S - 128°37'5 E, 835 m; ref. ZMA.E2585, 1 syntype (alcohol), Siboga Expedition, station 266, 5°56'5 S - 132°47'7 E, 595 m; ref. ZMA.E2586, 14 syntypes (alcohol), Siboga Expedition, station 314, 7°36' S - 117°30'8 E, 694 m; ref. ZMA.E2587, 1 syntype (alcohol), Siboga Expedition, station 316, 7°19'4 S - 116°49'5 E, 538 m

**perita, Amphiura** Koehler, 1905 : 36, pl. 3 figs 9-11

**Type specimen**

ref. ZMA.E2301, holotype (alcohol), Siboga Expedition, station 305, Kampong Menanga (Solor Strait), 113 m

**permixta, Ophioconis** Koehler, 1905 : 14, pl. 2 figs 4-5; see also A.M. Clark and Rowe 1971 : 88 and 127

**Type specimens**

ref. ZMA.E2385, 1 syntype (alcohol), Siboga Expedition, station 204, 4°20' S - 122°58' E, 75-94 m; ref. ZMA.E2386, 4 syntypes (alcohol), Siboga Expedition, station 260, 5°36'.5 S - 132°55'.2 E, 9 m

**Remark**

in genus *Ophiurodon* according to Koehler (1922:352)

**perplexus, Ophiomastus** Koehler, 1904 : 29, pl. 3 figs 10-11**Type specimens**

ref. ZMA.E2415, 23 syntypes (alcohol), Siboga Expedition, station 211, 5°40'.7 S - 120°4'.5 E, 1158 m; ref. ZMA.E2416, 4 syntypes (instead of 3 as Koehler mentioned) (alcohol), station 284, 8°43'.1 S - 127°16'.7 E, 828 m

**personata, Amphiuira** Koehler, 1905 : 47, pl. 5 figs 7-8

= *Amphioplus* (*Amphioplus*) *personata* Koehler, 1905; see A.M. Clark and Rowe 1971 : 78 and 102

**Type specimen**

ref. ZMA.E2302, holotype (alcohol), Siboga Expedition, station 50, Badjo Bay (Florès), up to 40 m

**pertinax, Ophioscolex** Koehler, 1904 : 145, pl. 25 figs 7-8**Type specimen**

ref. ZMA.E2468, holotype (alcohol), Siboga Expedition, station 251, 5°28'.4 S - 132°0'.2 E, 404 m

**placida, Ophiomitrella** Koehler, 1904 : 137, pl. 31 figs 3-4

= *Ophiomelina placida* (Koehler, 1904); see Koehler 1922 : 130, pl. 30 figs 8-9, pl. 94 fig. 3

**Type specimens**

ref. ZMA.E2424, 5 syntypes (instead of 3 as Koehler mentioned) (alcohol), Siboga Expedition, station 251, 5°28'.4 S - 132°0'.2 E, 204 m; ref. ZMA.E2425, 1 syntype (alcohol), Siboga Expedition, station 253, 5°48'.2 S - 132°13' E, 304 m; ref. ZMA.E2426, 4 syntypes (instead of 3 as Koehler mentioned), station 302, 10°29'.9 S - 123°28'.7 E, 216 m

**praestans, Amphiuira** Koehler, 1905 : 45, pl. 4 figs 16-17

= *Amphioplus* (*Lymanella*) *laevis* (Lyman, 1864); see A.M. Clark 1970 : 52

**Type specimens**

ref. ZMA.E2304, 2 syntypes (alcohol), Siboga Expedition, station 19, 8°44'.5 S - 116°2'.5 E, 18-27 m; ref. ZMA.E2305, 1 syntype (alcohol), Siboga Expedition, station 71, Makassar, 32 m; ref. ZMA.E2307, 1 syntype (alcohol), Siboga Expedition, station 206, 4°58' S - 122°42' E, 51 m; ref. ZMA.E2308, 3 syntypes (alcohol), Siboga Expedition, station 311, Sapeh Bay (E coast of Sumbawa), 36 m

**prisca, Ophioglypha** Koehler, 1904 : 38, pl. 6 figs 9-11

= ? *Ophiura prisca* (Koehler, 1904); see Remark

**Type specimen**

ref. ZMA.E2406, holotype (alcohol), Siboga Expedition, station 226, 5°26'.7 S - 127°36'.5 E, 1595 m

**Remark**

*Ophioglypha* is a junior synonym of *Ophiura* (Fell 1960:32)

**procera, Ophiacantha** Koehler, 1904 : 113, pl. 22 figs 1-2**Type specimens**

ref. ZMA.E2250, 3 syntypes (instead of 2 as Koehler mentioned) (alcohol), Siboga Expedition, station 266, 5°56'.5 S - 132°47'.7 E, 595 m

**projecta, Ophiozona** Koehler, 1905 : 19, pl. 1 figs 16-18

= *Ophiozonella projecta* (Koehler, 1905); see A.M. Clark and Rowe 1971 : 90 and 129

**Type specimens**

ref. ZMA.E2569, 4 syntypes (instead of 2 as Koehler mentioned) (alcohol), Siboga Expedition, station 96, S.E. Pearl Bank (Sulu Archipelago), 15 m; ref.

ZMA.E2570, 1 syntype (alcohol), station 142, Laiwui (Obi Major), 23 m; ref. ZMA.E2571, 1 syntype (alcohol), Siboga Expedition, station 260, 5°36'.5 S - 132°55'.2 E, 90 m; ref. ZMA.E2572, 2 syntypes (alcohol), Siboga Expedition, station 305, Kampong Menanga (Solor Strait), 113 m

**properum, Ophiomusium** Koehler, 1904 : 62, pl. 10 figs 11-13; see also Koehler 1922 : 416

**Type specimens**

ref. ZMA.E2053, 1 syntype (alcohol), Siboga Expedition, station 85, 0°36'.5 S - 119°29'.5 E, 724 m; ref. ZMA.E2054, 5 syntypes (instead of 4 as Koehler mentioned) (alcohol), Siboga Expedition, station 314, 7°36' S - 117°30.8 E, 695 m

**protecta, Amphilepis** Koehler, 1904 : 94, pl. 23 figs 8-9

= *Ophiomonas protecta* (Koehler, 1904); see A.M. Clark 1970 : 37

**Type specimens**

ref. ZMA.E2321, 4 syntypes (alcohol), Siboga Expedition, station 211, 5°40'.7 S - 120°45'.5 E, 1158 m

**proteus, Ophiothrix** Koehler, 1905 : 100

= *Ophiothrix* (*Acanthophiothrix*) *proteus* Koehler, 1905; see Cherbonnier and Guille 1978 : 147, textfig. 61 (n° 10 & 14), pl. 6 figs 3-4

**Type specimens**

ref. ZMA.E2544, 3 syntypes (alcohol), Siboga Expedition, station 49a, 8°23'.5 S - 119°4'.6 E, 69 m; ref. ZMA.E2546, 3 syntypes (instead of 2 as Koehler mentioned) (alcohol), Siboga Expedition, station 51, Molo Strait, 54-90 m; ref. ZMA.E2547, 3 syntypes (alcohol), Siboga Expedition, station 64, Tana Djampeach (Kambaragi Bay), 32 m; ref. ZMA.E2548, 1 syntype (alcohol), Siboga Expedition, station 154, 0°7'.2 N - 130°25'.5 E, 83 m; ref. ZMA.E2549, 1 syntype (alcohol), Siboga Expedition, station 179, Kawa Bay (E coast of Ceram), 36 m; ref. ZMA.E2550, 5 syntypes (alcohol), Siboga Expedition, station 260, 5°36'.5 S - 132°55'.2 E, 90 m; ref. ZMA.E2551, 1 syntype (alcohol), Banda

**pulchella, Ophiothrix** Koehler, 1905 : 106, pl. 11 figs 11-12, pl. 15 fig. 3

= *Ophiogymna pulchella* (Koehler, 1905); see Koehler 1922 : 295, pl. 37 figs 1,5-6, pl. 43 fig. 11, pl. 103 fig. 5

**Type specimens**

ref. ZMA.E2553, 1 syntype (alcohol), Siboga Expedition, station 289, 9°0'.3 S - 126°24'.5 E, 112 m; ref. ZMA.E2554, 10 syntypes (alcohol), Siboga Expedition, station 294, 10°12'.2 S - 124°27'.3 E, 73 m; ref. ZMA.E2555, 2 syntypes (alcohol), Siboga Expedition, station 306, 8°27' S - 122°54'.5 E, 247 m; ref. ZMA.E2556, 1 syntype (alcohol), Siboga Expedition, station 319, 6°16'.5 S - 114°37' E, 82 m; ref. ZMA.E2557, 1 syntype (alcohol), Ambon

**pulchra, Ophioplinthaca** Koehler, 1904 : 125, pl. 27 figs 5-8; see also

Guille 1981 : 424

**Type specimens**

ref. ZMA.E2449, 10 syntypes (alcohol), Siboga Expedition, station 297, 10°39' S - 123°40' E, 520 m; ref. ZMA.E2450, 1 syntype (alcohol), Siboga Expedition, station 59, 10°22'.7 S - 123°16'.5 E, 390 m; ref. ZMA.E2451, 10 syntypes (instead of 3 as Koehler mentioned) (alcohol), Siboga Expedition, station 95, 5°43'.5 S - 119°40' E, 522 m; ref. ZMA.E2452, 1 syntype (alcohol), Siboga Expedition, station 253, 5°48'.2 S - 132°13' E, 304 m

**punctocoeeruleum, Ophiotheron** Koehler, 1905 : 114, pl. 12 figs 5-7, pl. 15 fig. 6

= *Placophiothrix striolata* (Grube, 1868); see H.L. Clark 1946 : 225

**Type specimens**

ref. ZMA.E2456, 6 syntypes (alcohol), Siboga Expedition, station 50, Badjo Bay (W coast of Florès), 40 m; ref. ZMA.E2458, 1 syntype (alcohol), Siboga Expedition, station 273, Pulu Jedan (E coast of Aru Islands), 13 m; ref. ZMA.E2459, 1 syntype (alcohol), Siboga Expedition, station 299, 10°52'.4 S - 123°1'.1 E, 34 m

**reductum, Ophiomidas** Koehler, 1904 : 27, pl. 5 figs 6-8; see also Koehler 1922 : 434

**Type specimens**

ref. ZMA.E2418, 2 syntypes (alcohol), Siboga Expedition, station 48, 8°47' S - 118°44'3 E, 2060 m

**Remark**

The genus *Ophiomidas* was erected by Koehler (1904) for the species *O. alatum* and *O. reductum*

**refecta, Amphiuira** Koehler, 1905 : 52, pl. 6 figs 3-4

= *Amphioplus (Amphioplus) reflecta* (Koehler, 1905); see A.M. Clark 1970 : 65

**Type specimen**

ref. ZMA.E2309, holotype (alcohol), Siboga Expedition, station 193, Sanana Bay (E coast of Sula Besi Island), 22 m

**relicta, Ophiacantha** Koehler, 1904 : 106, pl. 17 figs 4-6

= *Ophiothalmus relicta* (Koehler, 1904); see Koehler 1922 : 124, pl. 9 figs 1-4, pl. 95 fig. 3

**Type specimens**

ref. ZMA.E2351, 3 syntypes (alcohol), Siboga Expedition, station 45, 7°24' S - 118°15'2 E, 794 m; ref. ZMA.E2352, 14 syntypes (alcohol), Siboga Expedition, station 52, 9°3'4 S - 119°56'7 E, 959 m; ref. ZMA.E2353, 10 syntypes (alcohol), Siboga Expedition, station 85, 0°36'5 S - 119°29'5 E, 1624 m; ref. ZMA.E2354, 1 syntype (alcohol), Siboga Expedition, station 170, 3°37'7 S - 131°26'4 E, 924 m; ref. ZMA.E2355, 2 syntypes (instead of 1 as Koehler mentioned) (alcohol), Siboga Expedition, station 178, 2°40' S - 128°37'5 E, 835 m; ref. ZMA.E2356, 1 syntype (alcohol), Siboga Expedition, station 286, 8°50'2 S - 127°2'2 E, 883 m; ref. ZMA.E2357, 1 syntype (alcohol), Siboga Expedition, station 300, 10°48'6 S - 123°23'1 E, 918 m; ref. ZMA.E2358, 4 syntypes (instead of 3 as Koehler mentioned) (alcohol), Siboga Expedition, station 314, 7°36' S - 117°30'8 E, 694 m; ref. ZMA.E2359, 4 syntypes (alcohol), Siboga Expedition, station 316, 7°19'4 S - 116°49'5 E, 538 m

**relictum, Ophiomusium** Koehler, 1904 : 61, pl. 10 figs 5-7; see also Koehler 1922 : 416, pl. 91 figs 6-8

**Type specimens**

ref. ZMA.E2049, 5 syntypes (alcohol), Siboga Expedition, station 156, 0°29'2 S - 130°5'3 E, 469 m

**remota, Ophioglypha** Koehler, 1904 : 54, pl. 9 figs 1-3

= ? *Ophiura remota* (Koehler, 1904); see Remark

**Type specimens**

ref. ZMA.E1340, 2 syntypes (alcohol), Siboga Expedition, station 221, 6°24' S - 124°39' E, 2798 m

**Remark**

*Ophioglypha* is a junior synonym of *Ophiura* (Fell 1960:32)

**reposita, Amphiuira** Koehler, 1905 : 40, pl. 4 figs 12-13

= *Amphioplus (Unioplus) repositus* (Koehler, 1905); see A.M. Clark and Rowe 1971 : 80 and 100

**Type specimens**

ref. ZMA.E2310, 3 syntypes (alcohol), Siboga Expedition, station, station 89, Pulu Kaniungan Ketjil, 11 m

**rugosa, Ophiocamax** Koehler, 1904 : 139, pl. 26 figs 4-7; see also Guille 1981 : 423

**Type specimens**

ref. ZMA.E2366, 3 syntypes (alcohol), Siboga Expedition, station 74, 5°3'5 S - 119°0' E, 450 m; ref. ZMA.E2367, 4 syntypes (alcohol), Siboga Expedition, station 254, 5°40' S - 132°26' E, 310 m; ref. ZMA.E2368, 4 syntypes (alcohol), Siboga Expedition, station 302, 10°27'9 S - 123°28'7 E, 216 m; ref. ZMA.E2369, 6 syntypes (instead of 3 as Koehler mentioned) (alcohol),

Siboga Expedition, station 251, 5°28'4 S - 232°0'2 E, 204 m; ref. ZMA.E2370, 4 syntypes (alcohol), Siboga Expedition, station 297, 10°39' S - 123°40' E, 520 m; ref. ZMA.E2371, 2 syntypes (alcohol), Siboga Expedition, station 253, 5°48'2 S - 132°13' E, 304 m; ref. ZMA.E2532, 5 syntypes (alcohol), Siboga Expedition, station 59, 10°27'7 S - 123°16'5 E, 390 m

**rugosum, Ophiosammium** Koehler, 1905 : 116, pl. 13 figs 4-6; see also Koehler, 1930 : 197

**Type specimen**

ref. ZMA.E2455, holotype (alcohol), Siboga Expedition, station 273, Pulu Jedan (E coast of Aru Islands), 13 m

**sanctum, Ophiomusium** Koehler, 1904 : 59, pl. 11 figs 7-9

= *Ophiomusium simplex* Lyman, 1878; see Guille 1981 : 453

**Type specimens**

ref. ZMA.E2051, 1 syntype (alcohol), Siboga Expedition, station 302, 10°27'9 S - 123°28'7 E, 216 m; ref. ZMA.E2052, 1 syntype (alcohol), Siboga Expedition, station 51, Mqlo Strait, 54-90 m

**scabra, Ophioglypha** Koehler, 1905 : 20, pl. 2 figs 9-10

= *Amphiophiura scabra* (Koehler, 1905); see Koehler 1930 : 225

**Type specimens**

ref. ZMA.E2407, 3 syntypes (alcohol), Siboga Expedition, station 260, 5°36'5 S - 132°55'2 E, 90 m

**seminudum, Ophioleuce** Koehler, 1904 : 33, pl. 2 figs 7-10; see also Koehler 1930 : 279

**Type specimens**

ref. ZMA.E2410, 1 syntype (alcohol), Siboga Expedition, station 65a, 7°0' S - 120°34'5 E, 400-120 m; ref. ZMA.E2411, 2 syntypes (alcohol), Siboga Expedition, station 177, 2°24'5 E - 129°38'5 E, 1633 m

**servata, Amphiuira** Koehler, 1904 : 84, pl. 15 figs 6-8

= *Amphioplus (Unioplus) servatus* (Koehler, 1904); see A.M. Clark 1970 : 65, textfig. 8p

**Type specimen**

ref. ZMA.E2311, holotype (alcohol), Siboga Expedition, station 262, 5°53'8 S - 132°48'8 E, 560 m

**sibogae, Ophiocreas** Koehler, 1904 : 165, pl. 32 figs 9-11, pl. 36 fig. 1; see also Baker 1980 : 28, figs 7 and 30

**Type specimens**

ref. ZMA.E2034, 89 paralectotypes (alcohol), Siboga Expedition, station 251, 5°28'4 S - 132°0'2 E; ref. ZMA.E2506, 1 paralectotype (alcohol), Siboga Expedition, station 150, 0°6' N - 129°7'2 E, 1089 m; ref. ZMA.E2507, lectotype (alcohol), same origin as E2034; ref. ZMA.E2508, 3 paralectotypes (alcohol), Siboga Expedition, station 297, 10°39'5 S - 123°40' E, 520 m

**Remark**

lectotype designed by A.N. Baker

**sibogae, Ophioterion** Koehler, 1905 : 113, pl. 12 figs 8-10

**Type specimen**

ref. ZMA.E2461, holotype (alcohol), Siboga Expedition, station 310, 8°30' S - 119°7'5 E, 73 m

**similis, Pectinura** Koehler, 1905 : 6, pl. 1 figs 4-6

= *Ophiarachnella similis* (Koehler, 1905); see A.M. Clark and Rowe 1971 : 88 and 125

**Type specimens**

ref. ZMA.E2008, 1 syntype (alcohol), Siboga Expedition, station 274, 5°28'2 S - 134°53'9 E, 37 m; ref. ZMA.E2009, 1 syntype (alcohol), Siboga Expedition, station 303, Haingsisi (Samau Island), 36 m; ref. ZMA.E2010, 3 syntypes (alcohol), Siboga Expedition, station 164, 1°42'5S-130°47'5E, 32 m; ref. ZMA.E2011, 1 syntype (alcohol), Siboga Expedition, station 77, 3°24' S -

117°36' E, 59 m; ref. ZMA.E2012, 1 syntype (alcohol), Siboga Expedition, station 40, Pulu Kawassang (Paternoster Islands), 12 m; ref. ZMA.E2013, 1 syntype (alcohol), Siboga Expedition, station 162, between Loslos and Gebroken Island (W coast of Salawatti), 18 m

**simplex, Ophiothrix** Koehler, 1905 : 109, pl. 4 figs 7-9  
= *Ophiothrix (Keystonea) simplex* Koehler, 1905; see A.M. Clark 1966 : 648  
**Type specimen**  
ref. ZMA.E2520, holotype (alcohol), Siboga Expedition, station 51, Molo Strait, 69-91 m

**spinosa, Ophimoeris** Koehler, 1904 : 17, pl. 4 figs 1-3; see also Koehler 1922 : 40  
**Type specimens**  
ref. ZMA.E2427, 5 syntypes (alcohol), Siboga Expedition, station 94, 5°11'2 N - 119°35'4 E, 450 m; ref. ZMA.E2428, 6 syntypes (alcohol), Siboga Expedition, station 95, 5°43'5 N - 119°40' E 522 m; ref. ZMA.E2429, 1 syntype (alcohol), Siboga Expedition, station 119, 1°33'5 N - 124°41' E, 1901 m; ref. ZMA.E2430, 5 syntypes (instead of 2 as Koehler mentioned) (alcohol), Siboga Expedition, station 251, 5°28'4 S - 132°0'2 E, 204 m; ref. ZMA.E2431, 70 syntypes (alcohol), Siboga Expedition, station 253, 5°48'2 S - 132°13' E, 304 m; ref. ZMA.E2432, 4 syntypes (alcohol), Siboga Expedition, station 254, 5°40' S - 132°26' E, 310 m

**spinosissima, Ophiothrix** Koehler, 1905 : 104, pl. 11 figs 3-4  
= *Ophiothrix (Acanthophiothrix) spinosissima* Koehler, 1905; see A.M. Clark 1966 : 648; A.M. Clark and Rowe 1971 : 86  
**Type specimens**  
ref. ZM.E2518, 2 syntypes (alcohol), Siboga Expedition, station 33, Pidjot Bay (Lombok), 22 m; ref. ZMA.E2519, 2 syntypes (alcohol), Banda, 9-36 m

**spinulosa, Amphiuira** Koehler, 1904 : 92 pl. 17 figs 7-8  
= *Amphioplus (Lymanella) spinulosus* (Koehler, 1904); see A.M. Clark 1970 : 66, textfig. 9v  
**Type specimen**  
ref. ZMA.E2312, holotype (alcohol), Siboga Expedition, station 306, 8°27' S - 122°54'5 E, 247 m

**stabilis, Pectinura** Koehler, 1905 : 5, pl. 1 figs 7-9  
= *Ophiarachnella stabilis* (Koehler, 1905); see A.M. Clark and Rowe 1971 : 88 and 126  
**Type specimens**  
ref. ZMA.E2578, 1 syntype (alcohol), Siboga Expedition, station 40, Pulu Kawassang (Paternoster Islands), 12 m; ref. ZMA.E2579, 2 syntypes (alcohol), Siboga Expedition, station 154, 0°7'2 N - 130°25'5 E, 83 m

**stigma, Ophionereis** H.L. Clark, 1938 : 325  
= *Ophionereis dubia* (Müller and Troschel, 1842); see A.M. Clark 1953b : 83 textfigs 9-10, pl. 2 figs 1-2  
**Type specimen**  
ref. ZMA.E2488, 1 paratype (dry), Broome (W Australia), leg. Harvard Museum

**stultus, Ophiothamnus** Koehler, 1904 : 141, pl. 25 figs 9-20, pl. 25 fig. 1  
= *Ophiurothamnus stultus* (Koehler, 1904); see Koehler 1922 : 104, pl. 22 figs 1-4  
**Type specimens**  
ref. ZMA.E2469, 1 syntype (alcohol), Siboga Expedition, station 45, 7°24' S - 118°15'2 E, 794 m; ref. ZMA.E2470, 2 syntype (alcohol), Siboga Expedition, station 178, 2°40' S - 128°35'5 E, 835 m; ref. ZMA.E2471, 2 syntypes (alcohol), Siboga Expedition, station 211, 5°40'7 S - 120°45'5 E, 1158 m; ref. ZMA.E2472, 3 syntypes (alcohol), Siboga Expedition, station 284, 8°43'1 S - 127°16'7 E, 828 m

**suspecta, Ophiacantha** Koehler, 1905 : 58, pl. 7 figs 5-8  
**Type specimen**  
ref. ZMA.E2360, holotype (alcohol), Siboga Expedition, station 236, Madura Bay (Molo Strait), 69 m

**tenuis, Ophiacantha** Koehler, 1904 : 102, pl. 16 figs 5-7  
= *Ophiomitrella tenuis* (Koehler, 1904); see Koehler 1930 : 72  
**Type specimens**  
ref. ZMA.E2262, 16 syntypes (alcohol), Siboga Expedition, station 253, 5°48'2 S - 132°13' E, 304 m; ref. ZMA.E2361, 1 syntype (alcohol), same origin as E2262

**tessellata, Amphiuira** Koehler, 1904 : 89, pl. 13 figs 8-9  
= *Amphioplus (Amphioplus) tessellatus* (Koehler, 1904); see A.M. Clark 1970 : 57  
**Type specimens**  
ref. ZMA.E2314, 3 syntypes (instead of 2 as Koehler mentioned) (alcohol), Siboga Expedition, station 300, 10°48'6 S - 123°23'1 E, 918 m

**trispinosus, Ophiopyrgus** Koehler, 1904 : 30, pl. 5 figs 1-3  
**Type specimens**  
ref. ZMA.E2464, 1 syntype (alcohol), Siboga Expedition, station 65a, 7°0' S - 120°34'5 E, 400-120 m; ref. ZMA.E2465, 1 syntype (alcohol), Siboga Expedition, station 102, 6°4'1 S - 120°44' E, 535 m; ref. ZMA.E2466, 1 syntype (alcohol), Siboga Expedition station 175, 2°37'7 S - 130°33'4 E, 1914 m; ref. ZMA.E2467, 5 syntypes (alcohol), Siboga Expedition, station 211, 5°40'7 S - 120°45'5 E, 1158 m

**tuberculosis, Astrochalcis** Koehler, 1905 : 130, pl. 16 figs 1-2; see also Baker 1980 : 64, figs 22,28,31  
**Type specimens**  
ref. ZMA.E2322, 3 syntypes (alcohol), Siboga Expedition, station 273, Pulu Jedan (E coast of Aru Islands), 13 m; ref. ZMA.E2323, 1 syntype (alcohol), Siboga Expedition, station 164, 1°42'5 S - 130°47'5 E, 32 m; ref. ZMA.E2324, 1 syntype (alcohol), Siboga Expedition, station 274, 5°28'2 S - 134°53'9 E, 57 m; ref. ZMA.E2325, 1 syntype (alcohol), Siboga Expedition, station 310, 8°39' S - 119°7'5 E, 73 m

**Remark**  
*A. tuberculosis* is the type species of the genus *Astrochalcis*

**uncinata, Amphiuira** Koehler, 1904 : 76, pl. 14 figs 3-4; see also Koehler 1922, pl. 65 figs 6-8, pl. 96 fig. 4  
**Type specimens**  
ref. ZMA.E2315, 7 syntypes (instead of 3 as Koehler mentioned) (alcohol), Siboga Expedition, station 5, 7°46' S - 114°30'5 E, 330 m; ref. ZMA.E2316, 1 syntype (alcohol), Birma Bay, about 250 m

**urbana, Ophioglypha** Koehler, 1904 : 50, pl. 7 figs 10-12  
= *Amphiophiura urbana* (Koehler, 1904); see H.L. Clark 1946 : 269  
**Type specimens**  
ref. ZMA.E2007, 2 syntypes (alcohol), Siboga Expedition, station 156, 0°29'2 S - 130°5'3 E, 469 m

**variabilis, Ophiomastix** Koehler, 1905 : 69, pl. 6 fig. 16, pl. 16 figs 3-4; see also A.M. Clark and Rowe 1971 : 86 and 121  
**Type specimens**  
ref. ZMA.E2588, 1 syntype (alcohol), Banda, ref. ZMA.E2589, 1 syntype (alcohol), Siboga Expedition, station 60, Haingsisi (Samau Island, Timor), 23 m; ref. ZMA.E2590, 1 syntype (alcohol), Siboga Expedition, station 93, Pulu Sanguisiapo (Tawi-Tawi Islands), 12 m; ref. ZMA.E2592, 1 syntype (alcohol), Siboga Expedition, station 322, S coast of Bawean Island, 32 m

**vecors, Astrotoma** Koehler, 1904 : 155, pl. 21 fig. 9, pl. 27 figs 9-10, pl.

32 fig. 2

= *Astrothrombus vecors* (Koehler, 1904). see Baker 1980 : 34, figs 9,31

**Type specimens**

ref. ZMA.E2055, 2 syntypes (alcohol), Siboga Expedition, station 251, 5°28'.4 S - 132°0'.2 E, 204 m; ref. ZMA.E2056, 1 syntype (alcohol), Siboga Expedition, station 297, 10°39' S - 123°40' E, 250 m

**viator, Ophiothrix** Koehler, 1904 : 148, pl. 31 figs 5-8

= ? *Macrophiothrix viator* (Koehler, 1904); see A.M. Clark 1966 : 649

**Type specimens**

ref. ZMA.E2561, 5 syntypes (instead of 3 as Koehler mentioned) (alcohol), Siboga Expedition, station 253, 5°48'.2 S - 132°13' E, 304 m

**vicina, Ophioplithaca** Koehler, 1904 : 19, pl. 25 figs 4-6

**Type specimen**

ref. ZMA.E2454, holotype (alcohol), Siboga Expedition, station 226, 5°56'.7 S - 127°36'.5 E, 1595 m

**virgo, Astrocharis** Koehler, 1904 : 160, pl. 20 fig. 1 pl 30 fig. 8; see also Döderlein 1927 : 100

**Type specimens**

ref. ZMA.E2040, 2 syntypes (alcohol), Siboga Expedition, station 95, 5°43'.5 N - 119°40' E, 522 m; ref. ZMA.E2041, 1 syntype (alcohol), Siboga Expedition, station 150, 0°6' N - 129°7'.2 E, 1089 m

**Remark**

*A. virgo* is the type species of the genus *Astrocharis*

**vitax, Amphiura** Koehler, 1904 : 82, pl. 13 figs. 3-4

= *Amphipholis vitax* (Koehler, 1904); see A.M. Clark 1970 : 31

**Type specimen**

ref. ZMA.E2317, holotype (alcohol), Siboga Expedition, station 306, 8°27' S - 122°54'.5 E, 247 m

**weberi, Ophiomytis** Koehler, 1904 : 142, pl. 18 figs 3-5

**Type specimen**

ref. ZMA.E2434, holotype (alcohol), Siboga Expedition, station 297, 10°39' S - 123°40' E, 520 m

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