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ANNOTATED CATALOGUE OF RECENT ECHINODERM TYPE SPECIMEN IN THE COLLECTION OF THE ZOÖLOGISCH 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 asteroids (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 (Salibabu 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, Pasir 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' 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 (Kwandang 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 paviflora* (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°40' 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

spinosissima, 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

venustulus, 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 *Aglaometra*)

= *Aglaometra 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, Sa-
leyer, reef; ref. ZMA.E1058/2, 2 syntypes (alcohol), same origin

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

= *Staurocucumis 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 Hedging 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; Hedging 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, La-
makera, 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, Je-
dan 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, Britan-
ny, 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, Olehle harbour (be-
tween Olehle 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, sta-
tion 51, Molo Strait, 69-91 m

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

= *Phyllophorus (Phyllothuria) discrepens* (Sluiter, 1901); see Hedging 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

= *Psychreplidia discrepens* (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 Expedi-
tion, 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); Hedging 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, Labidodemas Sluiter, 1901b : 22; see also Rowe 1969 : 133

Type specimen

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

enisus, 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, Eynpniastes 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

= *Peniagone 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
 = *Leptopenacta 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 (Halodeirna) 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, Bathyplores 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
 = *Bathyplores moseleyi* (Théel, 1886); see Mitsukurri 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'.2 S - 124°27'.3 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'.6 S - 123°23'.1 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'.8 S - 132°48'.8 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, Pseudocucumis 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'.5 E, 13-15 m

nocturna, Cucumaria Sluiter, 1901b : 92, pl. 7 figs 15a-15c, pl. 8 figs 2a-2c= *Staurocucumis 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'.2 E, 794 m; ref. ZMA.E1069, 2 syntypes (alcohol), Siboga Expedition, station 52, 9°3'45"-118°56'.7 E, 959 m; ref. ZMA.E1070, 1 syntype (alcohol), Siboga Expedition, station 85, 0°36'.5 S - 119°29'.5 E, 724 m; ref. ZMA.E1071, 1 syntype (lectotype according to Heding, 1934) (alcohol), Siboga Expedition, station 251, 5°28'.4 S - 132°0'.2 E, 204 m; ref. ZMA.E1072, 1 syntype (alcohol), Siboga Expedition, station 262, 5°53'.8 S - 132°48'.8 E, 560 m; ref. ZMA.E1073, 1 syntype (alcohol), Siboga Expedition, station 284, 8°43'.1 S - 127°16'.7 E, 828 m

Remark(1) the specimen from station 284 is the holotype of the species *Pseudocucumis apneumona* Heding, 1934 (see Heding 1942:411); (2) the specimen from station 262 is the holotype of the species *Pseudocucumis 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'.7 S - 120°45'.5 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'.2 S - 132°52'.5 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'.5 E, 330 m; ref. ZMA.E1045, 1 syntype (alcohol), Siboga Expedition, station 137, 0°23'.8 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'.1 S - 129°16'.7 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'.2 E, 794 m; ref. ZMA.E1049, 1 syntype (alcohol), Siboga Expedition, station 122, 1°58'.5 N - 125°0'.5 E, ca. 1200 m; ref. ZMA.E1050, 7 syntypes (alcohol), Siboga Expedition, station 211, 5°40'.7 S - 120°45'.5 E, 1158 m

phlegmaticus, Bathyploetes 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

puititosa, 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'.6 N - 119°8'.5 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, Bathyherpystikes 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 *Bathyherpystikes*.

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

quinquangularis, 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 (Urodermella) 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, Bathyplotes 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 iS - 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

= *Allothyone 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 *Ypsiothuria* 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 (Metriatya) 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, Bathyploetes 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

= *Afroccucumis 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, Jedan 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

= *Labiodemas 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, *Phylloporus* 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

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

= *Plesiodiadema amphigymnum* (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, Sapah 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 E.2141/1

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

= *Caenopedinia 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'.5 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.

= *Aspidodadema 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 *Aspidodadema 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'.5 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, Acontiasaster 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 *Acontiasaster*

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°05' 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

= *Nardoia 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, *Hyalinothrix* 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

= *Choniaster 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°55'5E, 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

omans, 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, Brisingenes 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°30'8E, 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

tematensus, 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°50'2S-127°2'2E, 883 m

tuberosa 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 Kejil (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, textfigs 9 l-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, Birma Bay, 55 m; ref. ZMA.E2282, 1 syntype (alcohol), Siboga Expedition, station 116, 0°58'.5 N - 122°42'.5 E, 72 m

citata, *Ophioplinthaca* 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, Losos 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. errans* and *O. magnus*

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

= *Amphiura 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

= *Amphiopus (Amphiopus) 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, *Ophioconida* Koehler, 1905 : 30, pl. 12 figs 2-4

= *Ophioconus 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.E 2382, 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

= *Asstroboa 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, Ophiobyrseella 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, Pidiot 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 syntypes (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, Asterochema 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) firma* (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

= *Ophiophiura 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' S - 132°55' E, 90 m; ref. ZMA.E2514, 6 syntypes (alcohol), Siboga Expedition, station 315, E of Sailus Besar (Paternoster Islands), 36 m

gentilis, *Amphiura* 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' 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' 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' S - 130°5' E, 469 m

grata, *Amphiura* 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' S - 120°45' E, 1158 m

hilaris, *Amphiura* Koehler, 1904 : 80, pl. 15 figs 9-10**Type specimen**

ref. ZMA.E2295, holotype (alcohol), Siboga Expedition, station 88, 0°34' S - 119°8' 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' S - 132°13' 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' 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' 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' S - 127°36' 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' E, 120 m; ref. ZMA.E2039, 3 syntypes (alcohol), station 253, 3°48' 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' S - 132°55' 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' S - 132°0' E, 204 m

instans, *Amphiura* Koehler, 1905 : 38, pl. 3 figs 4-6**Type specimen**

ref. ZMA.E2297, holotype (alcohol), Siboga Expedition, station 274, 5°28' S - 134°53' E, 57 m

intermedia, *Amphiura* 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' E, 289 m; ref. ZMA.E2346, 1 syntype (alcohol), Siboga Expedition, station 253, 3°48' S - 132°0' E, 238 m; ref. ZMA.E2347, 1 syntype (alcohol), Siboga Expedition, station 256, 5°26' S - 132°32' 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' S - 126°24' 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' 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

= *Ophopreta 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, *Ophioplinthaca* 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, *Ophiolinthaca* 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 Cherronier 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, *Amphiura* 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, Amphiuira 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.E 2586, 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, Amphiuira 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 *Ophiuradon* 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

= *Ophiometina 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

punctocoeruleum, Ophioterion 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°4' 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* (Fell1960:32)

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, Molo 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, Ophiroleuce 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 syntype (alcohol), Siboga Expedition, station 164, 1°42'55-130°47'5 E, 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 Losos 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. ZMA.E2518, 2 syntypes (alcohol), Siboga Expedition, station 33, Pidjot Bay (Lombok), 22 m; ref. ZMA.E2519, 2 syntypes (alcohol), Banda, 9-36 m

spinulosa, Amphiura 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 syntypes (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, Amphiura 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, Amphiura 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), Bima 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 Sanguisapo (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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