

**ECHINODERM FAUNA OF THE SOUTH CHINA SEA:
AN INVENTORY AND ANALYSIS OF
DISTRIBUTION PATTERNS**

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ABSTRACT. - A comprehensive review and analysis of the literature on echinoderm records for the South China Sea (SCS) indicates close to a thousand (982) species in total (113 crinoids, 227 asteroids, 272 ophiuroids, 167 echinoids and 203 holothuroids). All known SCS species and their distributions are tabulated herein. A total of 178 echinoderms have their type locality in the South China Sea, with 63% of these (12% of the echinofauna overall) currently considered endemic. One possible reason for the prominence of endemics is that the South China Sea became relatively land-locked, repeatedly, during low sea level stands. Large areas of the South China Sea remain relatively unexplored biologically and it is likely that additional records and new taxa await discovery.

KEY WORDS. - Echinodermata, South China Sea, Indo-Pacific, biodiversity, biogeography

INTRODUCTION

The fauna of the South China Sea has never been comprehensively studied and most expeditions have merely touched the fringes. The first major expedition to collect in the South China Sea was the renowned world-wide, deep-sea exploring expedition of HMS "Challenger" (1873-76). "Challenger" occupied many stations through the Philippines but only two in the South China Sea, one off the west coast of Luzon and one near Hong Kong.

Echinoderms from the voyage were described by Sladen, 1889 (asteroids), Lyman, 1882 (ophiuroids), Théel, 1882, 1886 (holothurians), Carpenter 1884, 1888 (crinoids) and A. Agassiz, 1881 (echinoids). Bedford (1900) listed echinoderms from Singapore and peninsular Malaysia and A.H. Clark (1934) described the crinoids in the Raffles Museum. Bell (1894) described the echinoderms collected from Macclesfield Bank by HMS "Penguin" and HMS "Egeria". By far the most significant contribution to the marine zoology of the area was made by the United States Fisheries steamer "Albatross" (1907-1910) which dredged through the Philippines and adjacent areas but again only touched the fringes of the South China Sea, from Balabac Strait, the north west coast of Palawan, the deep Palawan passage and a number of stations north west of Mindoro and off the west coast of Luzon. The echinoderms were described by Fisher, 1919 (asteroids), Koehler, 1922 (ophiuroids), A.H. Clark, 1911 (crinoids) and Mortensen, 1927, 1940b, 1948b (echinoids). Domantay (1933, 1934, 1936, 1962, 1972), Domantay & Domantay (1967) and Domantay & Roxas (1938) contributed to

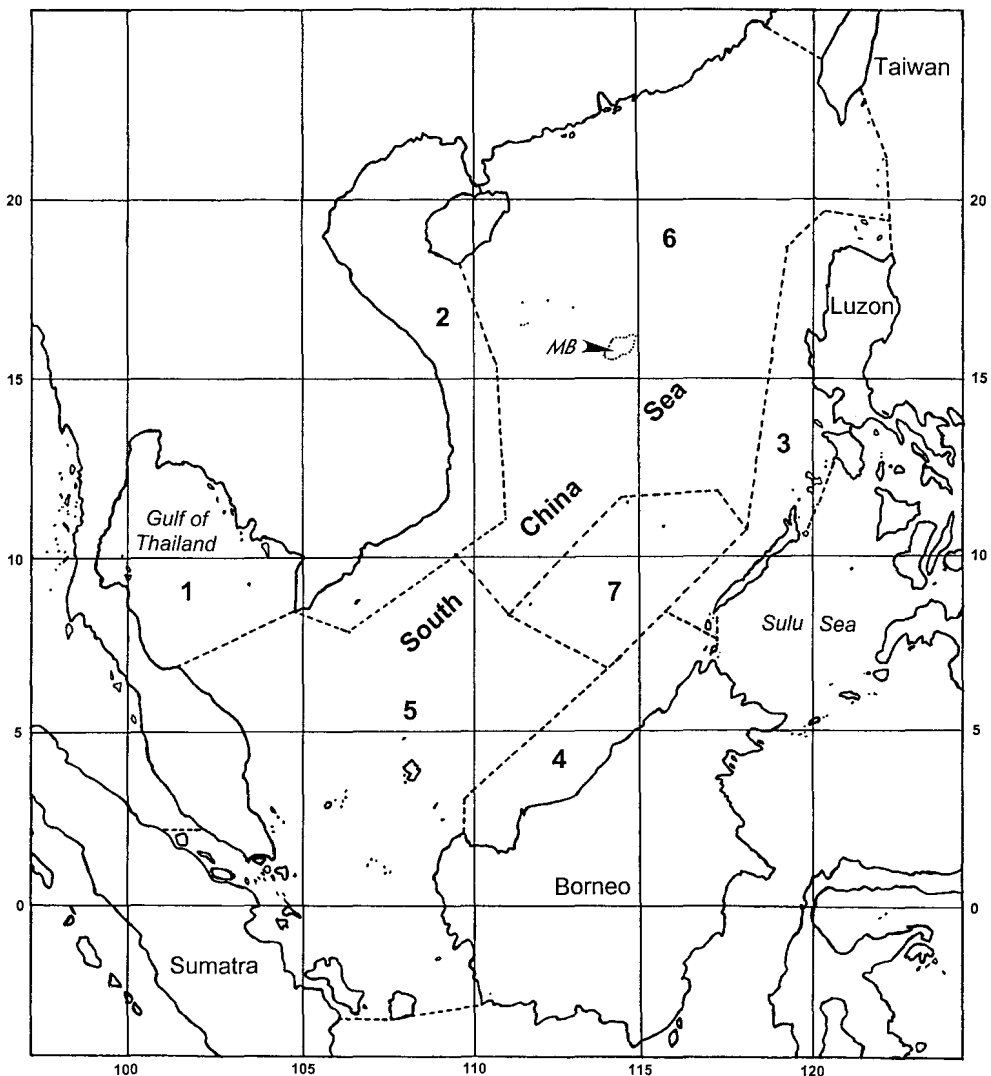


Fig. 1. Map of the South China Sea. SCS boundaries and demarcations between the seven zones (1-7) are indicated with dashed lines. MB = Macclesfield Bank.

knowledge of the echinoderms of the coasts of Mindoro and Luzon. More recently Liao has made extensive studies of the echinoderm fauna of China from both deep and shallow water including the Paracel (Xisha) Islands, culminating in Liao & Clark (1995) and Liao (1997). Chinese scientists have made a substantial contribution to knowledge of the Spratly (Nansha) islands and neighbouring waters, including deep water species. Their major report (Guozhen, 1989) lists 162 species, with a further 35 added in a supplementary list (Guozhen, 1991). Taiwan echinoderms have been studied principally by Chao & Chang (1989a, b, 1990) and Applegate (1984). Vietnam echinoderms are listed by Dao (1991a, b, c, 1994) and Cherbonnier (1960, 1961). The French MUSORSTOM Expeditions 1 and 2 (off the west coast of the Philippines) sampled echinoderms from the shelf and slope to 970 metres (Guille, 1981; Bourseau & Roux, 1989).

Comprehensive works by Mortensen (Monographs of the Echinoidea - 1928, 1935, 1940a, 1943, 1948a, 1950, 1951), A.H. Clark (Monograph of the existing crinoids 1931, 1941, 1947, 1950; A.H. Clark & A.M. Clark, 1967) and A.M. Clark & Rowe (1971) have brought together diverse records and have largely stabilised the taxonomy. Rowe & Gates (1995), who list all species known from Australia, have updated the taxonomy, including many species also found in the South China Sea.

The South China Sea (SCS) is largely enclosed by major land masses and island chains, with more open water in the Luzon Strait to the north and between Kalimantan and Sumatra to the south. For the purposes of this report the northern Luzon Strait boundary is designated, arbitrarily, from Escarpada point, N. Luzon, to S.E. Taiwan, including the Babuyan and Batan Islands. The southern boundary, at about 3° south of the equator, includes the islands of P. Bangka and P. Belitung between Sumatra and Kalimantan. Similarly, islands within the Balabac Strait, the Linapacan / Mindoro Straits and Verde Island Passage are considered included by the eastern Philippine boundary of the SCS. The islands at the southern end of the Straits of Malacca are also included (Fig. 1). For the purposes of the distribution tables in this report the area is subdivided into seven zones, 1 to 4 being coastal, 5 and 6 more central, and area 7 encompassing shallow and deep waters of the Nansha (Spratly) islands (Fig. 1). The echinoderm inventory includes all known records published in the literature. Also included are data from unpublished reports of the second author and from field observations / collections of the first author (the latter indicated by L in distribution table). Depth ranges for non-endemic taxa include records from outside as well as within the South China Sea. An asterisk instead of a plus sign in column 3 of the table indicates either an SCS taxon recorded for the adjacent central Philippine Archipelago/Sulu Sea (but not in area 3), or an unspecified locality in the Philippines. This is considered useful since past Philippines expeditions have largely concentrated on the central Philippines-Sulu region; representation in area 3 might be expected for species which range from central archipelagic waters to other SCS zones. South China Sea type species and their type zones, where known, are highlighted in bold in the distribution tables. Although the present lists are as comprehensive as possible, some records may have been overlooked, and further taxonomic work, needed for many taxa, may reveal synonymies or result in the recognition of additional species.

ZOOGEOGRAPHIC ANALYSIS

The present lists comprise 982 species of echinoderms (113 crinoids, 227 asteroids, 272 ophiuroids, 167 echinoids and 203 holothurians). For comparison Rowe & Gates (1995) list

1154 species for Australia waters, with about two thirds of these comprising non-endemic and endemic, tropical species (Rowe, 1985). To our knowledge no compilation has been made of the **total** echinoderm fauna (i.e. at all depths) of the species rich, core Indo-Malay Archipelago area, i.e. the remainder of the Philippines, including the Sulu Sea, the Indonesian Archipelago, New Guinea and islands to the north of New Guinea. This area probably has a richer fauna than the South China Sea but no comparisons, other than of shallow-water (<30m) species (c.f. Clark & Rowe, 1971), can be made at present; however it is known that the Sulu Sea, because of its historical isolation during successive Pleistocene glaciations, has a high level of faunal endemism at species level.

As results from the MUSORSTOM expeditions show, viz. their recently described species from the eastern part of the South China Sea, there are probably still many species to be discovered in other deep water areas. In general, many deep water species are known only from a single collection, sometimes from a single specimen; these are considered to be endemic until shown to have a wider distribution. On the other hand some deep water species, living at low temperatures, have a very wide distribution through the Indo-Pacific and sometimes the Atlantic, at temperate as well as tropical latitudes.

The species distributions fall quite neatly into the following zoogeographical categories: (1) endemic to the South China Sea; (2) confined to all or part of Southern and South East Asia from India/Sri Lanka coastal waters to Japan, south to Indonesia and northern Australia; (3) those found in this area but extending either into the Indian or Pacific oceanic domains, (restricted IWP in Table 1) and (4) those found widely distributed in the Indo-West Pacific (IWP), sometimes from East Africa to Hawaii. A few cosmopolitan species are included in the IWP group (Table 1).

Table 1. Distribution patterns of echinoderms from the South China Sea.

Classes	Total species	Endemic SCS	S. Asia ± Australia	Restricted IWP	IWP
Crinoidea	113	7 (7%)	67 (63%)	24 (22%)	9 (8%)
Asteroidea	227	54 (24%)	80 (36%)	55 (24%)	36 (16%)
Ophiuroidea	272	13 (5%)	132 (49%)	68 (26%)	54 (20%)
Echinoidea	167	7 (5%)	68 (45%)	36 (24%)	42 (28%)
Holothuroidea	203	31 (16%)	51 (27%)	43 (23%)	64 (34%)
Totals	982	112 (12%)	398 (42%)	226 (24%)	205 (22%)

A total of 178 echinoderms (18% of the fauna) have their type locality in the South China Sea or on the coasts bordering it: 14 crinoids, 61 asteroids, 41 ophiuroids, 19 echinoids and 43 holothurians. About 63% of these are currently considered endemic species (see Table 1) based on the present state of knowledge of their geographic distribution and, for some, their taxonomy.

It should be noted that distribution data was not available for all species, hence the figures do not add up to the total number of species. Percentages were calculated from the number of species for which data was available; no distribution data was available for 6 crinoids, 5 ophiuroids, 15 echinoids and 14 holothurians (2 asteroids plus 2 additional holothurians, identified to genus only, were also excluded from the analysis). Nevertheless it is believed

that the data, overall, do give a fairly accurate picture of the patterns of distribution.

The rate of endemism in the South China Sea is quite high, comprising 12% of the echinofauna overall and 24% and 16% for asteroids and holothuroids respectively. Endemic South China Sea echinoderms account for 63% of those with type locality in the region. One possible reason for the prominence of endemics is that the South China Sea became relatively land-locked periodically during glacial low sea level stands. The highest proportion of species (42%) is widely distributed to parts of southern and eastern Asia, often including Northern Australia. Many fewer species (24 and 22% respectively) are more widely distributed to the Indian or Pacific oceans (restricted IWP), or to both (IWP). For comparison, re-working the data in Rowe (1985) and Rowe & Gates (1995) for the Australian tropical fauna gives the following approximate distribution pattern of species: Endemics - 27%; shared South East Asian ('East Indian' - includes N. Australian component) - 15%; 'East Indian' plus either Pacific or Indian Ocean (equivalent to restricted IWP) - 16%; Indo-Pacific (= IWP) - 21% (based on a tropical element of 0.67×1154 species).

One area in the South China Sea which is conspicuously lacking in data for echinoderms (and probably other groups) is the Nansha (Spratly) islands reefal system. The present echinoderm count of 205 species for this area is relatively low, given the complexity and size of this shallow to deep tropical area. Further sampling in these waters will undoubtedly reveal additional taxa, some of which may boost the endemic component of the South China Sea. This is also likely to be the case for the deep echinoderm fauna generally.

It is not practical at present to comment on rare species since rarity may be only apparent because of lack of collecting, however records from a single locality in the species lists suggest possibly rare species.

Need for further expeditions / surveys

As can be seen from the historical account, most of the major expeditions visiting the South China Sea were undertaken during latter part of the 19th and early part of the 20th century. The survey coverage of this area was only partial and large areas of the South China Sea remain almost completely unknown biologically. In recent years Thai biologists have sampled echinoderms from the Gulf of Thailand but results are as yet unpublished; only echinoids are well represented in the literature for this area (Area 1). The small domains of Singapore and Hong Kong waters have been repeatedly sampled and their echinofauna is relatively well known, yet the extensive area of continental shelf (part of the Sunda shelf) between the Thailand-Malaysia peninsula and Borneo is, apart from the east coast islands of peninsular Malaysia and the Anambas islands, apparently unsampled, as is the deep water area (South China Basin) between Macclesfield Bank and the large area of shoals to the north of East Malaysia and Palawan. The coastal fauna of Sarawak and Brunei is little known, while that of Sabah is slightly better known. While the "Albatross" sampled deep water off Palawan they collected from few inshore stations on that island. There is also much to be known of the shoals which include the Spratly Islands (Nansha), Itu Aba (Taiping Island) and adjacent areas.

Thus it is apparent that much sampling of offshore reef systems (e.g. Nansha islands), non-reefal coasts and deep waters (below 200m) remains to be done before the fauna of the South China Sea is as well known as that of the Philippines or Indonesia. As a first initiative, an international expedition to the Nansha islands would be expected to be particularly fruitful in terms of biodiversity / biogeographic discoveries.

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ECHINODERM SPECIES LISTS AND DISTRIBUTIONS

Explanation of symbols: Columns 1-7 correspond to zones in Fig. 1; names of SCS type species are bolded; + = presence of species (bolded for type zones); * = an SCS/Philippines taxon with status unknown for area 3; L = field observations/collections of the first author.

Taxa	Distribution							Depth range m.
	1	2	3	4	5	6	7	
ASTEROIDEA								
<i>Order PAXILLOSIDA</i>								
Luidiidae								
<i>Luidia aspera</i> Sladen, 1889	.	+	*	.	.	+	.	4-274
<i>Luidia avicularia</i> Fisher, 1913	.	.	+	.	.	+	.	9-275
<i>Luidia hardwicki</i> (Gray, 1840)	.	+	+	.	+	+	+	6-220
<i>Luidia longispina</i> Sladen, 1889	.	+	*	.	+	+	.	10-148
<i>Luidia maculata</i> Müller & Troschel, 1842	.	+	+	.	+	+	.	0-150
<i>Luidia magnifica</i> Fisher, 1906	.	.	*	18-133
<i>Luidia orientalis</i> Fisher, 1913	+	.	200-380
<i>Luidia penangensis</i> de Loriol, 1891	.	.	*	.	+	.	.	4-20
<i>Luidia quinaria</i> von Martens, 1865	.	+	*	.	.	+	.	0-218
<i>Luidia savignyi</i> (Audouin, 1826)	.	.	*	0-50
Astropectinidae								
<i>Astromesites compactus</i> Fisher, 1913	.	.	+	314-384
<i>Astropecten acanthifer</i> Sladen, 1883	.	.	+	27-256
<i>Astropecten andersoni</i> Sladen, 1888	+	.	.	6-18
<i>Astropecten bengalensis</i> Döderlein, 1917	+	.	.	9-122
<i>Astropecten debilis</i> Koehler, 1910	+	.	.	676-765
<i>Astropecten carcharicus formosanus</i> Döderlein, 1917 ¹	+	.	—
<i>Astropecten eucnemis</i> Fisher, 1919	.	.	+	0-250
<i>Astropecten fasciatus</i> Döderlein, 1926	+	—
<i>Astropecten indicus</i> Döderlein, 1888	+	.	.	181-196
<i>Astropecten kagoshimensis</i> de Loriol, 1899	+	.	39-119
<i>Astropecten luzonicus</i> Fisher, 1913	.	.	+	324-430
<i>Astropecten malayanus</i> Döderlein, 1917	+	.	.	216
<i>Astropecten mindanensis</i> Döderlein, 1917	.	.	+	0-13
<i>Astropecten monacanthus</i> Sladen, 1883	.	+	+	.	+	+	+	0-112
<i>Astropecten novaeguineae</i> Döderlein, 1917	+	.	.	0-88
<i>Astropecten polyacanthus phragmorus</i> Fisher, 1913	.	.	+	.	.	.	+	0-85
<i>Astropecten polyacanthus polyacanthus</i> Müller & Troschel, 1842	.	+	+	.	.	+	+	0-144
<i>Astropecten pusillus</i> Sluiter, 1889	+	.	.	15-22
<i>Astropecten sarasinorum</i> Döderlein, 1917	+	.	.	0-20
<i>Astropecten scoparius</i> , Müller & Troschel, 1842	.	.	*	.	.	+	.	14-64
<i>Astropecten tamilicus</i> Döderlein, 1888	+	.	.	6-15
<i>Astropecten umbrinus</i> Grube, 1866	+	.	—
<i>Astropecten vappa vappa</i> Müller & Troschel, 1843	.	.	*	.	+	+	.	0-80
<i>Astropecten velutarius</i> von Martens, 1865	.	+	+	.	.	+	+	5-183
<i>Craspidaster hesperus</i> (Müller & Troschel, 1840)	.	+	.	.	+	+	+	2-195
<i>Ctenophoraster diploctenus</i> Fisher, 1913	.	.	+	119-215
<i>Ctenopleura astropectinides</i> Fisher, 1913	.	.	+	.	.	.	+	90-490

1 possibly a synonym of *Astropecten vappa vappa* Müller & Troschel, 1842 (see Liao & Clark, 1995: 77) although *A. carcharicus* from type locality (Shark Bay, Western Australia) is apparently distinct from *A. vappa* from the same locality (L.M.M.).

Taxa	Distribution							Depth range m.
	1	2	3	4	5	6	7	
<i>Ctenopleura ludwigi</i> (de Loriol, 1899)	+	.	10-36
<i>Ctenopleura sinica</i> (Döderlein, 1917)	.	+	.	.	.	+	.	77-134
<i>Dipsacaster imperialis</i> Fisher, 1917	.	.	‡	40-866
<i>Dipsacaster pretiosus</i> (Döderlein, 1902)	+	.	20-200
<i>Koremaster evaulus evaulus</i> (Fisher, 1913)	.	.	+	.	.	+	+	750-1525
<i>Koremaster evaulus spiculatus</i> Fisher, 1919	.	.	‡	1363
<i>Persephonaster cingulatus multicinctus</i> Fisher, 1913	.	.	+	685-1020
<i>Persephonaster habrogenys</i> Fisher, 1913	.	.	‡	588-622
<i>Persephonaster tenuis</i> Fisher, 1913	‡	.	134-595
<i>Proserpinaster anchistus</i> (Fisher, 1913)	.	.	‡	.	.	+	.	336-432
<i>Proserpinaster euryactis</i> (Fisher, 1913)	.	.	‡	265-362
<i>Proserpinaster euryactis brevispinus</i> (Fisher, 1919)	.	.	‡	314-472
<i>Proserpinaster luzonicus</i> (Fisher, 1913)	.	.	‡	420
<i>Tethyaster aulophora</i> (Fisher, 1911)	+	+	156-232
Porcellanasteridae								
<i>Abyssaster planus</i> (Sladen, 1883)	+	3500
<i>Eremicaster crassus</i> (Sladen, 1883)	+	1570-6330
<i>Thoracaster cylindratus</i> Sladen, 1883	+	2450-5990
Goniopectinidae								
<i>Ctenodiscus orientalis</i> Fisher, 1913	.	.	+	605-1360
<i>Goniopecten asiaticus</i> Fisher, 1913	.	.	+	170-200
Order NOTOMYOTIDA								
Benthopectinidae								
<i>Cheiraster capillatus</i> Jangoux, 1981	.	.	‡	170-200
<i>Cheiraster gazellae</i> Studer, 1883	.	.	+	170-469
<i>Cheiraster inops</i> Fisher, 1906	.	.	+	430-1250
<i>Cheiraster niasicus</i> Ludwig, 1910	.	.	+	.	.	+	+	170-1080
<i>Cheiraster pilosus</i> (Alcock, 1893)	.	.	+	150-1310
<i>Cheiraster trullipes</i> (Sladen, 1889)	.	.	‡	1920
<i>Nearchaster musorstomi</i> Aziz & Jangoux, 1985	.	.	‡	970
<i>Pectinaster mimicus palawanensis</i> Fisher, 1919	.	.	‡	1281-2013
Order VALVATIDA								
Sphaerasteridae								
<i>Podosphaeraster polyplax</i> A.M. Clark & Wright, 1962	‡	.	72-125
Archasteridae								
<i>Archaster angulatus</i> Müller & Troschel, 1842	.	.	+	.	+	+	.	0-90
<i>Archaster typicus</i> Müller & Troschel, 1840	.	+	+	.	+	+	.	0-91
Goniasteridae								
<i>Anthenoides cristatus</i> (Sladen, 1889)	.	.	+	.	.	.	+	90-511
<i>Anthenoides granulatus</i> Fisher, 1913	+	485-526
<i>Anthenoides laevigatus</i> Liao & A.M. Clark, 1989	.	.	*	.	.	‡	.	107-170
<i>Anthenoides lithosorus</i> Fisher, 1913	‡	.	380
<i>Anthenoides rugulosus</i> Fisher, 1913	.	.	+	194-472
<i>Anthenoides tenuis</i> Liao & A.M. Clark, 1989	‡	.	180-270
<i>Astroceramus lionotus</i> Fisher, 1913	.	.	+	379-407
<i>Astrothauma euphyllacteum</i> Fisher, 1913	+	.	180-296
<i>Calliaster corynetes</i> Fisher, 1913	.	.	‡	196-407
<i>Calliaster childreni</i> Gray, 1840	+	+	121-192
<i>Calliaster quadrispinus</i> Liao, 1989	+	‡	.	88

Taxa	Distribution							Depth range m.
	1	2	3	4	5	6	7	
<i>Calliderma emma</i> Gray, 1847	+	.	156-300
<i>Ceramaster smithi</i> Fisher, 1913	.	.	+	686-1010
<i>Iconaster elegans</i> Jangoux, 1981	.	.	✚	170-222
<i>Iconaster longimanus</i> (Moebius, 1859)	.	.	+	.	+	+	.	5-230
<i>Lithosoma actinometra</i> Fisher, 1911	.	.	✚	188-538
<i>Milteliphaster spinosus</i> H.L. Clark, 1916	.	.	+	144-823
<i>Nymphaster arthrocnemis</i> Fisher, 1913	.	.	+	610-1020
<i>Nymphaster meseres</i> Fisher, 1913	.	.	✚	632
<i>Nymphaster mucronatus</i> Fisher, 1913	.	.	✚	366
<i>Ogmaster capella</i> (Müller & Troschel, 1842)	.	.	+	.	.	+	+	shallow-450
<i>Paragonaster ctenipes ctenipes</i> Sladen, 1889	.	.	+	.	.	.	+	134-450
<i>Paragonaster ctenipes hypacanthus</i> Fisher, 1913	.	.	✚	115-398
<i>Paragonaster stenostichus</i> Fisher, 1913	.	.	✚	172-363
<i>Peltaster cycloplax</i> Fisher, 1913	.	.	✚	219
<i>Perissogonaster insignis</i> Fisher, 1913	.	.	✚	186-465
<i>Pontioceramus grandis</i> Fisher, 1911	.	.	✚	170-396
<i>Pseudarchaster jordani</i> Fisher, 1906	.	.	+	.	+	.	.	592-1980
<i>Pseudarchaster mozaicus</i> Wood-Mason & Alcock, 1891	.	.	*	170-1800
<i>Pseudoceramaster regularis</i> Jangoux, 1981	.	.	✚	174-204
<i>Rosaster bipunctus</i> (Sladen, 1889)	+	275
<i>Rosaster confinis</i> (Koehler, 1910)	.	.	+	120-250
<i>Rosaster mimicus</i> Fisher, 1913	.	.	✚	180-920
<i>Rosaster symbolicus</i> (Sladen, 1889)	.	.	+	.	.	+	+	50-348
<i>Sphaeriodiscus scotocryptus</i> Fisher, 1913	.	.	+	40-906
<i>Stellaster convexus</i> Jangoux, 1981	.	.	✚	143-178
<i>Stellaster childreni</i> Gray, 1840	.	+	+	.	+	+	+	0-260
Oreasteridae								
<i>Anthenea aspera</i> Döderlein, 1915	+	+	.	18
<i>Anthenea chinensis</i> Gray, 1840	.	+	.	.	.	+	.	0-60
<i>Anthenea difficilis</i> Liao, 1995	✚	.	intertidal
<i>Anthenea flavescens</i> (Gray, 1840)	+	.	0-46
<i>Anthenea grayi</i> Perrier, 1875	.	.	*	0-20
<i>Anthenea regalis</i> Koehler, 1910 ²	.	+	30-50
<i>Anthenea viguieri</i> Döderlein, 1915 ²	+	.	—
<i>Choriaster granulatus</i> Lütken, 1869	.	+	+	+	+	+	+	0-40
<i>Culcita novaeguineae</i> Müller & Troschel, 1842	.	+	+	+	+	+	+	0-90
<i>Goniodiscaster forficulatus</i> (Perrier, 1875) ³	.	.	+	.	.	+	+	25-123
<i>Goniodiscaster granuliferus</i> (Gray, 1847)	.	.	*	.	.	+	.	110-146
<i>Goniodiscaster pleyadella</i> (Lamarck, 1816)	.	+	0-37
<i>Goniodiscaster rugosus</i> (Perrier, 1875)	.	+	5-81
<i>Goniodiscaster scaber</i> (Moebius, 1859)	+	.	+	10-54
<i>Gymnanthenea globigera</i> (Döderlein, 1915)	+	.	.	0-36
<i>Gymnanthenea laevis</i> H.L. Clark, 1938	+	.	.	0-<20
<i>Haliyle regularis</i> Fisher, 1913	.	.	+	.	.	+	.	3-90
<i>Monachaster sanderi</i> (Meissner, 1892)	+	.	0-68
<i>Pentaceraster affinis</i> (Müller & Troschel, 1842)	+	.	.	—
<i>Pentaceraster alveolatus</i> (Perrier, 1875)	.	.	+	.	.	+	.	0-54
<i>Pentaceraster chinensis</i> (Gray, 1840)	.	.	*	.	.	+	+	40-60
<i>Pentaceraster decipiens</i> (Bell, 1884)	+	.	.	0-20
<i>Pentaceraster gracilis</i> (Lütken, 1871)	+	.	.	0-73
<i>Pentaceraster magnificus</i> (Goto, 1914)	.	.	*	.	.	+	.	10
<i>Pentaceraster multispinus</i> (von Martens, 1866)	+	.	.	0-27

2 possible synonyms of *Anthenea chinensis* Gray, 1840 according to Liao & Clark, 1995 :102-103.3 possible synonym of *Goniodiscaster scaber* (Möbius, 1859) according to A.M.C. in Clark & Rowe, 1971: 50.

Taxa	Distribution							Depth range m.
	1	2	3	4	5	6	7	
<i>Pentacaster regulus</i> (Müller & Troschel, 1842)	.	.	+	.	+	.	+	0-60
<i>Pentacaster sibogae</i> Döderlein, 1916	.	.	*	.	.	+	.	32-59
<i>Pentaster obtusatus</i> (Bory de St. Vincent, 1827)	.	.	+	.	.	+	.	0-25
<i>Poraster superbus</i> (Moebius, 1859)	.	+	+	18-63
<i>Protoreaster nodosus</i> (Linnaeus, 1758)	.	+	+	+	+	+	.	0-38
Asterodiscididae								
<i>Asterodiscides elegans</i> (Gray, 1847)	.	.	+	.	.	+	.	0-123
<i>Asterodiscides helonotus</i> (Fisher, 1913)	.	.	+	.	.	+	.	18-81
Chaetasteridae								
<i>Chaetaster moorei</i> Bell, 1894	✚	.	20-73
Ophidiasteridae								
<i>Andora wilsoni</i> Rowe, 1977	.	.	*	.	.	+	.	18
<i>Bunaster ritteri</i> Döderlein, 1896	.	.	+	.	+	+	+	40-54
<i>Celerina heffernani</i> (Livingstone, 1931)	.	.	*	.	.	+	L	0-55
<i>Dactylosaster cylindricus</i> (Lamarck, 1816)	+	+	0-11
<i>Fromia eusticha</i> Fisher, 1913	.	.	+	0-55
<i>Fromia hadracantha</i> H.L. Clark, 1921	.	+	*	.	.	+	.	0-20
<i>Fromia indica</i> (Perrier, 1869)	.	+	+	.	.	+	.	0-44
<i>Fromia milleporella</i> (Lamarck, 1816)	.	+	+	+	L	+	+	0-73
<i>Fromia monilis</i> Perrier, 1875	.	+	+	.	+	+	+	0-51
<i>Fromia pacifica</i> H.L. Clark, 1921	.	.	+	.	.	+	.	0-30
<i>Gomophia egyptiaca egeriae</i> A.M. Clark, 1967	✚	.	0-80
<i>Gomophia gomophia</i> (Perrier, 1875)	+	.	0-40
<i>Gomophia mamillifera</i> (Livingstone, 1930)	+	.	0-16
<i>Heteronardoa carinata</i> (Koehler, 1910)	.	.	*	34-230
<i>Heteronardoa diamantinae</i> Rowe, 1976	.	.	+	15-187
<i>Leiaster coriaceus</i> (Peters, 1852)	.	.	+	0-52
<i>Leiaster leachi</i> (Gray, 1840)	.	+	.	.	.	+	.	0-183
<i>Leiaster speciosus</i> von Martens, 1866	.	+	+	.	L	+	.	0-81
<i>Linckia guildingi</i> Gray, 1840	.	+	+	.	.	+	.	0-46
<i>Linckia laevigata</i> (Linnaeus, 1758)	.	+	+	+	+	+	+	0-60
<i>Linckia multifora</i> (Lamarck, 1816)	.	+	+	+	+	+	+	0-69
<i>Nardoa frianti</i> Koehler, 1910	.	+	+	0-51
<i>Nardoa galatheae</i> (Lütken, 1865)	.	.	+	0-25
<i>Nardoa novaecaledoniae</i> (Perrier, 1875)	.	.	+	0-5
<i>Nardoa tuberculata</i> Gray, 1840	.	+	✚	+	.	+	.	0-70
<i>Nardoa tumulosa</i> Fisher, 1917 ⁴	.	.	*	.	.	+	.	0-62
<i>Neoferdina cumingi</i> (Gray, 1840)	.	.	+	.	+	+	+	0-30
<i>Neoferdina offreti</i> (Koehler, 1910)	.	.	*	0-62
<i>Ophidiaster armatus</i> Koehler, 1910	.	+	*	.	.	+	.	5-450
<i>Ophidiaster chinensis</i> Perrier, 1875 ⁵	.	+	.	.	.	✚	.	—
<i>Ophidiaster cribrarius</i> Lütken, 1871	.	+	*	0-31
<i>Ophidiaster duncani</i> de Loriol, 1885	.	+	*	0-20
<i>Ophidiaster granifer</i> Lütken, 1871	.	.	+	+	+	+	.	0-123
<i>Ophidiaster hemprichi</i> Müller & Troschel, 1842	.	+	+	.	.	+	+	0-45
<i>Ophidiaster multispinus</i> Liao & A.M. Clark, 1996	✚	.	15-55
<i>Tamaria dubiosa</i> (Koehler, 1910)	.	.	+	127-757
<i>Tamaria fusca</i> Gray, 1840	.	+	+	.	+	.	.	0-70
<i>Tamaria megaloplax</i> (Bell, 1884)	.	.	*	0-117
<i>Tamaria pusilla</i> (Müller & Troschel, 1844)	.	.	+	.	+	.	.	—

4 possibly misidentified ; some SCS records believed to represent a new, unpublished species of *Nardoa*.
 5 validity uncertain -see Liao & Clark, 1995: 121.

Taxa	Distribution							Depth range m.
	1	2	3	4	5	6	7	
Mithrodiidae								
<i>Mithrodia clavigera</i> (Lamarck, 1816)	+	+	.	0-81
<i>Thromidia catalai</i> , Pope & Rowe, 1977 ⁶	?	10-105
Asteropseidae								
<i>Asteropsis carinifera</i> (Lamarck, 1816)	.	+	+	+	L	+	.	0-55
<i>Valvaster striatus</i> (Lamarck, 1816)	.	.	.	+	.	.	.	0-25
Acanthasteridae								
<i>Acanthaster planci</i> (Linnaeus, 1758)	.	+	+	+	+	+	+	0-54
Poraniidae								
<i>Marginaster paucispinus</i> Fisher, 1913	✠	.	183
Asterinidae								
<i>Anseropoda diaphana</i> (Sladen, 1889)	+	.	.	275
<i>Anseropoda fisheri</i> Aziz & Jangoux, 1985	.	.	✠	99-137
<i>Anseropoda rosacea</i> (Lamarck, 1816)	.	+	*	.	+	+	+	0-300
<i>Asterina anomala</i> H.L. Clark, 1921	+	.	.	—
<i>Asterina cepheus</i> (Müller & Troschel, 1842)	.	+	.	+	.	+	.	1-20
<i>Asterina coronata</i> von Martens, 1866	.	.	+	.	+	+	.	0-18
<i>Asterina limboonkengi</i> Smith, 1927	+	✠	.	—
<i>Asterina orthodon</i> Fisher, 1922 ⁷	✠	.	—
<i>Asterina sarasini</i> (de Loriol, 1897)	+	.	.	0-2
<i>Disasterina odontacantha</i> Liao, 1980	✠	.	0-1
<i>Nepanthia belcheri</i> (Perrier, 1875)	.	+	.	.	+	+	+	0-128
<i>Nepanthia briareus</i> (Bell, 1894)	✠	.	27-83
<i>Nepanthia fisheri</i> Rowe & Marsh, 1982	.	.	+	+	.	.	.	29-198
<i>Nepanthia maculata</i> Gray, 1840	.	.	+	.	+	.	.	0-731
<i>Paranepanthia pedicellaris</i> (Fisher, 1913)	.	.	.	+	.	.	.	123
<i>Patiriella pseudoexigua</i> Dartnall, 1971	.	.	+	+	+	+	.	0-45
<i>Pseudasterina delicata</i> Aziz & Jangoux, 1985	.	+	✠	192-275
<i>Pseudasterina granulosa</i> Aziz & Jangoux, 1985	.	+	✠	130-137
<i>Tegulaster ceylanica</i> (Döderlein, 1889)	+	.	.	20
Leilasteridae								
<i>Leilaster spinulosus</i> Aziz & Jangoux, 1985	.	.	✠	130-220
Order VELATIDA								
Solasteridae								
<i>Seriaster regularis</i> Jangoux, 1984	+	.	20-65
<i>Crossaster</i> sp.	+	—
Pterasteridae								
<i>Euretaster insignis</i> (Sladen, 1882)	.	+	+	+	+	+	+	0-132
Order SPINULOSIDA								
Echinasteridae								
<i>Echinaster callosus</i> von Marenzeller, 1895	.	.	+	.	+	+	.	0-62
<i>Echinaster luzonicus</i> (Gray, 1840)	.	+	✠	+	+	+	+	0-73
<i>Echinaster stereosomus</i> Fisher, 1913	+	+	+	.	+	+	+	14-757
<i>Metrodira subulata</i> Gray, 1840	.	+	.	.	+	+	+	0-150

6 verbal report (to D.J.W.L.) of this unmistakable species at Layang Layang, 7°25'N;113°50'E.

7 possible synonym of *Asterina sarasini* (de Loriol, 1897) - see Clark & Rowe, 1971: 68; Liao & Clark, 1995: 131.

Taxa	Distribution							Depth range m.
	1	2	3	4	5	6	7	
<i>Order FORCIPULATIDA</i>								
Zoroasteridae								
<i>Pholidaster squamatus</i> Sladen, 1889	.	+	+	100-399
<i>Zoroaster carinatus</i> Alcock, 1893	.	+	+	.	.	+	+	170-1105
<i>Zoroaster ophiactis</i> Fisher, 1916	.	+	+	959-1628
Asteriidae								
<i>Asterias versicolor</i> Sladen, 1889	+	.	0-92
<i>Coronaster halicepus</i> Fisher, 1917	.	+	✚	190-545
<i>Coronaster sakuranus</i> Döderlein, 1902	.	+	192-595
<i>Coronaster volsellatus</i> (Sladen, 1889)	.	+	+	.	.	+	.	59-630
<i>Sclerasterias mazophorus</i>								
Wood-Mason & Alcock, 1891	.	+	150-4596
<i>Stolasterias acutispina</i> (Stimpson, 1862)	+	.	—
<i>Tarsaster stoichodes</i> Sladen, 1889	+	.	.	85-1224
<i>Order BRISINGIDA</i>								
Brisingidae								
<i>Astrostephane acanthogenys</i> (Fisher, 1916)	.	.	✚	.	.	+	.	315
<i>Brisinga</i> sp.	+	—
<i>Craterobrisinga analoga</i> Fisher, 1919	.	.	✚	40-659
<i>Craterobrisinga eucoryne</i> Fisher, 1916	.	.	✚	686-1358
<i>Novodinia penichra</i> (Fisher, 1916)	.	.	+	168-188
<i>Novodinia radiata</i> Aziz & Jangoux, 1985	.	.	✚	215-216
<i>Stegnobrisinga placoderma</i> (Fisher, 1916)	.	.	+	960-1022
Freyellidae								
<i>Freyella echinata</i> Sladen, 1889	.	.	✚	1920
CRINOIDEA								
<i>Order BOURGUETICRINIDA</i>								
Bathycrinidae								
<i>Democrinus japonicus</i> Gislén, 1927	.	+	*	.	.	+	.	156-210
<i>Order ISOCHRINIDA</i>								
Isocrinidae								
<i>Diplocrinus alternicirrus</i> Carpenter, 1884	.	.	+	914-1097
<i>Hypalocrinus naresianus</i> (Carpenter, 1884)	.	.	+	686-1264
<i>Metacrinus interruptus</i> Carpenter, 1884	.	.	+	.	.	.	+	126-210
<i>Metacrinus multisegmentatus</i>								
Chang & Liao, 1963	.	+	+	.	.	✚	.	104-230
<i>Metacrinus musorstomae</i> Roux, 1981	.	.	✚	170-216
<i>Metacrinus nodosus</i> Carpenter, 1884	.	.	+	570-1152
<i>Metacrinus rotundus</i> Carpenter, 1884	.	+	+	.	.	+	.	100-500
<i>Metacrinus serratus</i> Döderlein, 1907	.	.	+	326-550
<i>Saracrinus angulatus</i> (Carpenter, 1884)	.	.	+	192-230
<i>Saracrinus superbus</i> (Carpenter, 1884)	+	+	+	.	+	.	.	188-310
<i>Order COMATULIDA</i>								
Comasteridae								
<i>Capillaster asterias</i> A.H. Clark, 1931	+	+	35-56
<i>Capillaster macrobrachius</i> (Hartlaub, 1890)	.	+	.	.	.	+	.	0-59
<i>Capillaster multiradiatus</i> (Linnaeus, 1758)	.	+	+	.	+	+	+	0-c.300
<i>Capillaster sentosus</i> (Carpenter, 1888)	.	+	+	.	+	+	+	0-135
<i>Comanthina audax</i> Rowe et al., 1986	.	.	.	+	.	+	.	<20
<i>Comanthina nobilis</i> (Carpenter, 1888)	.	.	*	+	.	.	.	8-92

Taxa	Distribution							Depth range m.
	1	2	3	4	5	6	7	
<i>Comanthina schlegelii</i> (Carpenter, 1881)	.	+	+	+	+	+	+	0-278
<i>Comanthus alternans</i> (Carpenter, 1881)	.	+	+	+	+	+	.	0-90
<i>Comanthus briareus</i> (Bell, 1882)	.	+	+	+	+	+	.	1-120
<i>Comanthus delicata</i> (A. H. Clark, 1909)	.	+	*	.	.	+	+	10-257
<i>Comanthus gisleni</i> Rowe et al., 1986	.	.	.	+	.	.	.	0-32
<i>Comanthus parvicirrus</i> (Müller, 1841)	.	+	+	+	+	+	+	1-110
<i>Comanthus wahlbergii</i> (Müller, 1843)	.	.	*	.	+	.	.	1-103
<i>Comaster brevicirrus</i> (Bell, 1894)	.	+	.	.	.	+	.	0-52
<i>Comaster distinctus</i> (Carpenter, 1888)	.	+	+	.	.	+	.	15-290
<i>Comaster gracilis</i> (Hartlaub, 1890)	.	+	*	.	+	+	.	4-50
<i>Comaster minima</i> (A.H. Clark, 1909)	.	.	+	9-216
<i>Comaster multibrachiatus</i> (Carpenter, 1888)	.	+	*	.	.	+	.	20-83
<i>Comaster multifidus</i> (Müller, 1841)	.	.	+	+	+	+	.	0-91
<i>Comaster tenellus</i> A.H. Clark, 1931	+	+	.	0-90
<i>Comatella maculata</i> (Carpenter, 1888)	.	+	*	.	+	+	.	0-15
<i>Comatella nigra</i> (Carpenter, 1888)	.	+	+	.	.	+	.	0-160
<i>Comatella stelligera</i> (Carpenter, 1888)	.	+	+	.	+	+	+	0-210
<i>Comatula micraster</i> A.H. Clark, 1909	.	+	22-109
<i>Comatula pectinata</i> (Linnaeus, 1758)	.	+	+	.	.	+	+	0-73
<i>Comatula purpurea</i> (Müller, 1843) ⁸	.	+	+	.	+	+	.	0-120
<i>Comatula solaris</i> Lamarck, 1816	.	+	.	.	+	+	.	0-109
<i>Comissia littoralis</i> (A.H. Clark, 1912)	.	.	+	<20
<i>Comissia peregrina</i> (Bell, 1894)	.	+	.	.	.	+	.	100-110
<i>Oxycomanthus bennetti</i> (Müller, 1841)	.	+	+	+	+	+	+	0-50
<i>Oxycomanthus comanthipinna</i> (Gislén, 1922)	.	.	.	+	.	.	.	1-20
<i>Oxycomanthus grandicalyx</i> (Carpenter, 1882)	.	+	.	.	+	+	.	—
<i>Oxycomanthus intermedia</i> (A.H. Clark, 1916)	+	.	0-150
<i>Oxycomanthus japonicus</i> (Müller, 1841)	.	.	*	+	.	+	.	0-256
Zygotmetridae								
<i>Catoptometra hartlaubi</i> (A.H. Clark, 1907)	+	.	137-278
<i>Catoptometra magnifica</i> A.H. Clark, 1908	+	+	*	.	.	+	+	36-914
<i>Catoptometra rubroflava</i> (A.H. Clark, 1907)	+	.	25-183
<i>Zygotmetra comata</i> A.H. Clark, 1911	.	+	*	.	+	+	+	0-150
Eudiocrinidae								
<i>Eudiocrinus indivisus</i> (Semper, 1868)	.	+	+	.	.	+	+	36-183
<i>Eudiocrinus tenuissimus</i> Gislén, 1940	.	+	.	.	.	+	.	<20
<i>Eudiocrinus venustus</i> A.H. Clark, 1912	.	.	+	.	.	+	+	73-174
Himerometridae								
<i>Amphimetra laevipinna</i> (Carpenter, 1882)	+	+	*	+	+	+	+	0-60
<i>Amphimetra tessellata</i> (Müller, 1841)	.	+	*	.	+	+	.	0-109
<i>Craspedometra acuticirra</i> (Carpenter, 1882)	.	+	*	.	+	+	.	—
<i>Heterometra africana</i> (A.H. Clark, 1911)	.	.	*	0-88
<i>Heterometra bengalensis</i> (Hartlaub, 1890)	+	.	.	0-44
<i>Heterometra crenulata</i> (Carpenter, 1882)	+	+	*	.	+	+	.	0-111
<i>Heterometra propinqua</i> (A.H. Clark, 1912)	+	+	82-88
<i>Heterometra pulchra</i> A.H. Clark, 1912	.	.	*	27-73(?89)
<i>Heterometra savignii</i> (Müller, 1841)	+	.	.	0-18
<i>Heterometra variipinna</i> (Carpenter, 1882)	.	.	+	.	+	+	.	0-20
<i>Himerometra magnipinna</i> A.H. Clark, 1908	.	+	+	+	+	+	+	0-38
<i>Himerometra martensi</i> (Hartlaub, 1890)	+	.	.	2
<i>Himerometra robustipinna</i> (Carpenter, 1881)	.	+	*	.	+	+	.	0-57

8 considered a synonym of *Comatula pectinata* (Linnaeus, 1758) by F.W.E.R. in Rowe & Gates, 1995: 148, but readily distinguishable from *pectinata* on West Australia coast according to L.M.M.

Taxa	Distribution							Depth range m.
	1	2	3	4	5	6	7	
Mariametridae								
<i>Dichrometra bimaculata</i> (Carpenter, 1881)	.	.	+	0-1
<i>Dichrometra doederleini</i> (de Loriol, 1900)	+	+	.	.	.	+	.	0-150
<i>Dichrometra flagellata</i> (Müller, 1841)	+	+	.	.	.	+	.	0-45
<i>Lamprometra palmata</i> (Müller, 1841)	.	+	+	.	+	+	.	0-50
<i>Liparometra articulata</i> (Müller, 1849)	.	+	0-69
<i>Liparometra regalis</i> (Carpenter, 1888)	+	.	.	3-31
<i>Mariametra subcarinata</i> (A.H. Clark, 1908)	+	.	40-108
<i>Mariametra vicaria</i> (Bell, 1894)	.	+	.	.	.	+	.	53-100
<i>Oxymetra erinaceus</i> (Hartlaub, 1890)	.	.	*	0-50
<i>Oxymetra finschi</i> (Hartlaub, 1890)	.	.	*	.	+	.	.	0-77
<i>Stephanometra echinus</i> (A.H. Clark, 1908) ⁹	.	+	+	.	+	+	.	0-38
<i>Stephanometra indica</i> (Smith, 1876)	.	+	*	.	+	+	.	0-73
<i>Stephanometra oxyacantha</i> (Hartlaub, 1850)	.	.	+	+	+	.	.	0-27
<i>Stephanometra spinipinna</i> (Hartlaub, 1890)	+	.	.	0-245
<i>Stephanometra tenuipinna</i> (Hartlaub, 1890)	.	.	*	.	+	.	.	0-48
Colobometridae								
<i>Basilometra boschmai</i> A.H. Clark, 1936	+	+	.	.	.	+	.	0-103
<i>Cenometra bella</i> (Hartlaub, 1890)	+	+	+	+	.	+	+	0-55
<i>Colobometra discolor</i> A.H. Clark, 1909	.	+	+	42-106
<i>Colobometra perspinosa</i> (Carpenter, 1881)	.	.	*	+	+	+	.	0-122
<i>Cyllometra manca</i> (Carpenter, 1888)	.	.	+	.	.	+	.	22-329
<i>Decametra laevipinna</i> (A.H. Clark, 1912)	.	.	*	+	.	+	.	0-3
<i>Decametra myliitta</i> A.H. Clark, 1912	.	+	*	.	+	+	.	25-85
<i>Decametra parva</i> (A.H. Clark, 1912)	.	.	+	+	.	.	.	1-90
<i>Iconometra bellona</i> (A.H. Clark, 1920)	.	.	+	16-73
<i>Iconometra speciosa</i> A.H. Clark, 1929	.	+	.	.	.	+	.	146
<i>Oligometra chinensis</i> (A.H. Clark, 1918)	+	.	0-2
<i>Oligometra serripinna</i> (Carpenter, 1881)	.	+	*	.	+	+	.	0-90
<i>Pontiometra andersoni</i> (Carpenter, 1888)	+	+	*	.	+	+	.	0-73
Tropiometrinae								
<i>Tropiometra afra afra</i> (Hartlaub, 1890)	.	+	+	+	.	+	.	0-110
<i>Tropiometra afra macrodiscus</i> (Hara, 1895)	.	+	.	+	+	+	.	0-66
Calometridae								
<i>Gephyrometra versicolor</i> (A.H. Clark, 1907)	.	+	.	.	.	+	.	5-174
<i>Neometra alecto</i> (A.H. Clark, 1911)	.	.	+	.	.	+	.	77-208
<i>Neometra multicolor</i> (A.H. Clark, 1907)	+	20-600
Asterometridae								
<i>Asterometra anthus</i> (A.H. Clark, 1907)	+	.	64-210
<i>Asterometra cristata</i> A.H. Clark, 1911	.	+	+	.	.	+	.	80-146
<i>Asterometra mirifica</i> A.H. Clark, 1909	+	.	73-183
<i>Pterometra pulcherrima</i> (A.H. Clark, 1909)	.	.	*	.	.	+	.	36-174
<i>Pterometra trichopoda</i> (A.H. Clark, 1908)	.	.	+	.	.	+	+	68-140
<i>Pterometra venusta</i> A.H. Clark, 1912	.	+	.	.	.	+	.	5-80
Thalassometridae								
<i>Parametra orion</i> (A.H. Clark, 1907)	+	+	128-306
Antedonidae								
<i>Antedon parviflora</i> (A.H. Clark, 1912)	.	.	*	.	+	+	.	0-275
<i>Antedon serrata</i> A.H. Clark, 1908	+	.	0-180
<i>Dorometra aphrodite</i> (A.H. Clark, 1912) ¹⁰	.	+	.	.	.	+	+	48-174
<i>Dorometra parvicirra</i> (Carpenter, 1888)	.	+	*	.	.	+	.	0-164

9 a probable synonym of *Stephanometra tenuipinna* (Hartlaub, 1890) (see Clark & Rowe, 1971: 24), but genus *Stephanometra* is in need of revision.

10 close to, possibly synonymous with, *Dorometra parvicirra* (Carpenter, 1888) – see Liao & Clark, 1995 : 62.

Taxa	Distribution							Depth range m.
	1	2	3	4	5	6	7	
<i>Dorometra nana</i> (Hartlaub, 1890)	.	+	*	.	.	+	.	0-60
<i>Euantedon sinensis</i> A.H. Clark, 1912	+	.	deep
<i>Mastigometra pacifica</i> A.H. Clark, 1918	+	.	.	littoral
<i>Toxometra paupera</i> A.H. Clark, 1911	.	.	*	.	.	+	.	0-510
OPHIUROIDEA								
Order <i>PHRYNOPHIURIDA</i>								
Ophiomyxidae								
<i>Astrogymnotes catastica</i> H.L. Clark, 1914	.	+	*	.	.	+	.	40-205
<i>Neoplax crassipes</i> Koehler, 1922	.	.	‡	24
<i>Ophiobyrsella intorta</i> Koehler, 1922	.	+	*	1346
<i>Ophiodera neglecta</i> Koehler, 1904	.	+	*	.	.	+	.	65-744
<i>Ophiomyxa australis</i> Lütken, 1869	.	+	.	.	+	+	.	0-1006
<i>Ophiomyxa bengalensis</i> Koehler, 1897	.	.	+	296-1962
<i>Ophiomyxa longipeda</i> Brock, 1888	.	+	—
<i>Ophiophrixus confinis</i> Koehler, 1922	.	.	+	448-558
Euryalidae								
<i>Astroceras mammosus</i> Koehler, 1930	.	.	+	90-195
<i>Astroceras pergamena</i> Lyman, 1879	.	+	+	.	.	+	.	65-1033
<i>Euryale aspera</i> Lamarck, 1816	+	+	*	.	+	+	+	0-290
<i>Euryale purpurea</i> Mortensen, 1934	.	+	.	.	+	‡	.	—
<i>Sthenocephalus indicus</i> Koehler, 1898	.	+	.	.	.	+	.	36-487
<i>Trichaster acanthifer</i> Döderlein, 1927	.	+	.	.	.	+	.	18-39
<i>Trichaster palmiferus</i> (Lamarck, 1816)	.	+	*	.	+	+	+	33-159
Asteronychidae								
<i>Asteronyx loveni</i> Müller & Troschel, 1842	.	+	.	.	.	+	+	109-2963
<i>Astrodia tenuispina</i> (Verrill, 1885)	+	+	*	+	+	+	.	510-3720
Gorgonocephalidae								
<i>Asterorpa hadracantha</i> H.L. Clark, 1911	.	+	.	.	.	+	.	62-194
<i>Astroboa nuda</i> (Lyman, 1874)	.	+	*	.	.	+	.	1-113
<i>Astrocladus dofleini</i> Döderlein, 1911	.	.	+	27-278
<i>Astrocladus exiguus</i> (Lamarck, 1816)	.	+	*	.	.	+	.	18-494
<i>Astrocladus tonganus</i> Döderlein, 1911	.	+	.	.	.	+	.	2-10
<i>Astroclon propugnatoris</i> Lyman, 1879	.	.	+	170-236
<i>Astrolymna sculptum</i> (Döderlein, 1896)	.	+	.	.	.	+	.	54-300
<i>Astrotoma drachi</i> Guille, 1981	.	.	‡	975-1125
<i>Astrotoma manilense</i> Döderlein, 1927	.	.	+	720
<i>Gorgonocephalus dolichodactylus</i> Döderlein, 1911	.	+	.	.	.	+	.	146-1134
Asteroschematidae								
<i>Asteroschema ferox</i> Koehler, 1904	.	.	+	170-204
Hemieuryalidae								
<i>Ophiogypsis nodosa</i> Koehler, 1905	.	.	+	35-308
Order <i>OPHIURIDA</i>								
Ophiacanthidae								
<i>Amphilimna granulosa</i> Liao, 1989	.	+	.	.	.	‡	.	280
<i>Amphilimna multispina</i> Koehler, 1922	.	+	*	91-357
<i>Amphilimna polyacantha</i> Liao, 1983	.	+	.	.	.	‡	.	72-200
<i>Amphilimna sinica</i> Liao, 1989	.	+	.	.	.	‡	.	280
<i>Amphilimna tanyodes</i> Devaney, 1974	.	.	+	189
<i>Ophiacantha composita</i> Koehler, 1896	.	.	+	685-757
<i>Ophiacantha duplex</i> Koehler, 1897	.	.	+	686-1234
<i>Ophiacantha gracilis</i> (Studer, 1882)	.	+	*	.	.	+	.	0-400

Taxa	Distribution							Depth range m.
	1	2	3	4	5	6	7	
<i>Ophiacantha indica</i> Ljungman, 1867	.	.	*	.	+	.	.	<20-290
<i>Ophiacantha longidens</i> Lyman, 1874	.	+	*	90-183
<i>Ophiacantha pentagona</i> Koehler, 1897	.	+	+	.	.	+	+	78-1724
<i>Ophialcoea congesta</i> (Koehler, 1904)	.	.	+	450-1000
<i>Ophiocamax rugosa</i> Koehler, 1904	.	+	+	.	.	+	+	82-520
<i>Ophiocopa singularis</i> Koehler, 1922	.	.	+	340-686
<i>Ophiolimna perfida</i> (Koehler, 1904)	.	.	+	592-1125
<i>Ophiomitra plicata</i> Lyman, 1874	+	+	1920
<i>Ophiomitrella subjecta</i> Koehler, 1922	.	.	✚	353-485
<i>Ophiophthalmus honestus</i> Koehler, 1930	.	.	+	183-385
<i>Ophioplinthaca globata</i> Koehler, 1922	.	.	✚	686-969
<i>Ophioplinthaca hastata</i> Koehler, 1922	.	.	✚	353-368
<i>Ophioplinthaca manillae</i> Guille, 1981	.	.	✚	170-200
<i>Ophioplinthaca pulchra</i> Koehler, 1904	.	.	+	.	.	+	.	204-171
<i>Ophioplinthaca rudis</i> (Koehler, 1897)	.	.	+	650-3124
<i>Ophiotrema tertium</i> Koehler, 1922	.	.	✚	1335
<i>Ophiotreta gratiosa</i> (Koehler, 1897)	.	.	+	.	.	+	+	50-925
<i>Ophiotreta matura</i> (Koehler, 1904)	.	.	+	.	.	+	+	239-4161
<i>Ophiotreta speciosa</i> Guille, 1981	.	.	✚	194-200
<i>Ophiotreta valenciennesi</i> (Lyman, 1874)	+	.	245-385
<i>Ophiurothamnus musorstomae</i> Guille, 1981	.	.	✚	975-1125
Amphiuridae								
<i>Amphilycus scripta</i> (Koehler, 1904)	.	✚	.	.	.	+	.	<20
<i>Amphiodia minuta</i> H.L. Clark, 1939	.	+	36-37
<i>Amphiodia (Amphisphaera) crassa</i> (Koehler, 1904)	.	.	+	453-2291
<i>Amphiodia (Amphisphaera) microplax</i> Burfield, 1924	.	+	.	.	.	+	.	5-69
<i>Amphiodia (Ophiophragmus) olivacea</i> (Brock, 1888)	.	+	—
<i>Amphioplus (Amphichilus) impressus</i> (Ljungman, 1867)	.	+	+	.	+	+	+	16-194
<i>Amphioplus (Amphichilus) intermedius</i> (Koehler, 1905)	.	+	+	+	.	+	.	8-220
<i>Amphioplus (Amphioplus) cyrtacanthus</i> H.L. Clark, 1915	.	+	+	*	.	+	.	10-105
<i>Amphioplus (Amphioplus) exsecratus</i> (Koehler, 1905)	.	.	*	<20
<i>Amphioplus (Amphioplus) iuxta</i> Murakami, 1943	+	.	.	<20
<i>Amphioplus (Amphioplus) legatus</i> Koehler, 1922	.	.	✚	721
<i>Amphioplus (Amphioplus) lucidus</i> Koehler, 1922	.	+	+	.	.	+	+	3-152
<i>Amphioplus (Amphioplus) rhadinobranchius</i> H.L. Clark, 1911	.	.	+	291
<i>Amphioplus (Lymanella) andreae</i> (Lütken, 1872)	+	.	.	—
<i>Amphioplus (Lymanella) depressus</i> (Ljungman, 1867)	.	+	+	.	+	+	+	6-160
<i>Amphioplus (Lymanella) laevis</i> (Lyman, 1874)	.	+	*	.	+	+	+	7-100
<i>Amphipholis loripes</i> Koehler, 1922	.	+	*	.	.	+	+	78-196
<i>Amphipholis misera</i> (Koehler, 1899)	+	+	+	.	.	+	.	18-348
<i>Amphipholis sobrina</i> Matsumoto, 1917	.	+	.	.	.	+	+	137-550
<i>Amphipholis squamata</i> (Delle Chiaje, 1829)	+	+	*	.	.	+	.	0-500
<i>Amphiura diomedea</i> Lütken & Mortensen, 1899	.	.	+	.	.	+	.	368-1125
<i>Amphiura grandisquama</i> Lyman, 1909	.	.	+	10-686
<i>Amphiura (Amphiura) abbreviata</i> Koehler, 1905	+	.	*	13-40
<i>Amphiura (Amphiura) aestuarii</i> Matsumoto, 1915	.	+	125-230
<i>Amphiura (Amphiura) ambigua</i> Koehler, 1905	.	+	*	0-34
<i>Amphiura (Amphiura) bidentata</i> H.L. Clark, 1938	.	+	0-37
<i>Amphiura (Amphiura) crossota</i> Murakami, 1943	+	.	.	—

Taxa	Distribution							Depth range m.
	1	2	3	4	5	6	7	
<i>Amphiura (Amphiura) divaricata</i> Ljungman, 1867	.	+	.	.	+	+	.	7-78
<i>Amphiura (Amphiura) duncani</i> Lyman, 1882	+	+	.	3-400
<i>Amphiura (Fellaria) enomiotata</i> H.L. Clark, 1911	.	+	.	.	.	+	.	58-290
<i>Amphiura (Fellaria) vadicola</i> Matsumoto, 1915	+	.	0-c.30
<i>Amphiura (Ophiopeltis) phalerata</i> (Lyman, 1874)	.	.	*	<20
<i>Amphiura (Ophiopeltis) tenuis</i> (H.L. Clark, 1938)	.	+	.	.	.	+	.	0-12
<i>Dougaloplus acanthinus</i> (H.L. Clark, 1911)	+	+	*	.	+	+	.	10-85
<i>Dougaloplus echinatus</i> (Ljungman, 1867)	+	+	*	.	+	+	.	16-118
<i>Ophiocentrus anomalus</i> Liao, 1983	.	+	.	.	.	+	+	19-62
<i>Ophiocentrus aspera</i> (Koehler, 1905)	.	.	*	0-36
<i>Ophiocentrus dilatatus</i> (Koehler, 1905)	.	.	*	.	+	.	.	216
<i>Ophiocentrus inaequalis</i> (H.L. Clark, 1915)	.	.	*	.	.	+	.	18-36
<i>Ophiocentrus koehleri</i> Gislén, 1926	.	+	.	.	.	+	.	30-84
<i>Ophiocentrus putnami</i> (Lyman, 1871)	+	.	<20-90
<i>Ophionephthys difficilis</i> (Duncan, 1887)	.	+	.	.	.	+	.	1-50
<i>Ophiostigma rugosum</i> H.L. Clark, 1918	.	.	+	.	.	+	.	—
<i>Paracrocnida sinensis</i> (A.H. Clark, 1917)	+	.	—
<i>Paramphichondrius tetradontus</i> Guille & Wolff, 1984	.	+	.	.	.	+	.	35-164
Ophiactidae								
<i>Histampica duplicata</i> (Lyman, 1875)	.	.	+	685-1125
<i>Ophiactis affinis</i> Duncan, 1879	+	+	*	.	.	+	+	0-90
<i>Ophiactis definita</i> Koehler, 1922	.	.	+	250-1280
<i>Ophiactis fuscolineata</i> H.L. Clark, 1938	.	+	.	.	.	+	.	0-15
<i>Ophiactis hexacantha</i> H.L. Clark, 1939	+	+	0-183
<i>Ophiactis macrolepidota</i> Marktanner-Turneretscher, 1887	.	+	.	.	.	+	.	1-177
<i>Ophiactis maculosa</i> von Martens, 1870 ¹¹	.	.	*	+	+	+	.	<20
<i>Ophiactis modesta</i> Brock, 1888 ¹¹	.	+	+	+	+	+	+	0-180
<i>Ophiactis picteti</i> (de Loriol, 1893)	.	.	+	+	.	+	.	1-50
<i>Ophiactis profundus</i> Lütken & Mortensen, 1899	.	.	+	.	.	+	.	46-410
<i>Ophiactis quadrispina</i> H.L. Clark, 1915 ¹¹	.	.	*	.	.	+	.	—
<i>Ophiactis savignyi</i> (Müller & Troschel, 1842)	+	+	+	+	+	+	+	0-1000
<i>Ophiactis versicolor</i> H.L. Clark, 1939 ¹¹	+	.	.	<20-29
<i>Ophiophane formatus</i> (Koehler, 1905)	.	+	.	.	.	+	.	5-274
<i>Ophiophane materna</i> Koehler, 1930	.	+	+	9-249
<i>Ophiosphaera insignis</i> Brock, 1888	+	.	*	.	+	.	.	18-245
Ophiotrichidae								
<i>Gymnolophus obscura</i> (Ljungman, 1867)	.	+	+	.	+	.	.	0-52
<i>Macrothothrix coerulea</i> (Djakonov, 1930)	.	.	*	+	.	+	.	1-20
<i>Macrothothrix demessa</i> (Lyman, 1861)	.	.	*	.	+	+	+	0-128
<i>Macrothothrix expedita</i> (Koehler, 1905)	.	.	*	.	+	.	.	0-73
<i>Macrothothrix fumaria</i> (Müller & Troschel, 1842) ¹²	.	.	*	+	.	+	.	<20
<i>Macrothothrix galateae</i> (Lütken, 1872)	+	.	+	.	+	+	.	30-50
<i>Macrothothrix hirsuta</i> (Müller & Troschel, 1842)	.	+	+	.	+	.	.	0-90
<i>Macrothothrix hybrida</i> (H.L. Clark, 1915) ¹²	.	.	+	.	+	+	+	47
<i>Macrothothrix koehleri</i> A.M. Clark, 1968	.	.	*	.	+	+	.	0-102
<i>Macrothothrix lineocerulea</i> (H.L. Clark, 1928) ¹²	+	+	.	littoral-100
<i>Macrothothrix longipeda</i> (Lamarck, 1816)	.	+	+	.	+	+	+	0-290
<i>Macrothothrix lorioli</i> A.M. Clark, 1968	.	.	*	+	+	+	+	0-24
<i>Macrothothrix martensi</i> (Lyman, 1874) ¹³	.	+	+	.	+	+	.	0-73

11 these 4 spp. considered to be synonymous with *Ophiactis savignyi* (Müller & Troschel, 1842) by Cherbonnier & Guille (1978) but not according to Liao & Clark, 1995:218.

12 transferred from subgenus *Ophiotrix* (*Placophiotrix*) - see Hoggett, 1992; Price & Rowe, 1996: 75-76.

13 transferred from subgenus *Ophiotrix* (*Keystonea*) - see Hoggett, 1992; Price & Rowe, 1996: 75-76.

Taxa	Distribution							Depth range m.
	1	2	3	4	5	6	7	
<i>Macrophiothrix melanosticta</i> (Grube, 1868) ¹²	.	+	*	.	+	+	.	0-82
<i>Macrophiothrix nereidina</i> (Lamarck, 1816) ¹³	.	+	+	+	+	+	.	0-73
<i>Macrophiothrix propinqua</i> (Lyman, 1861)	.	+	+	.	+	+	+	0-80
<i>Macrophiothrix robillardi</i> (de Loriol, 1893)	.	+	*	.	.	+	+	-5
<i>Macrophiothrix striolata</i> (Grube, 1868) ¹²	+	+	+	.	+	+	+	0-89
<i>Macrophiothrix variabilis</i> (Duncan, 1887)	.	+	*	.	+	+	.	0-139
<i>Macrophiothrix vicina</i> (Koehler, 1930) ¹³	+	.	—
<i>Macrophiothrix virgata</i> (Lyman, 1861) ¹²	.	+	.	.	+	.	.	10
<i>Ophiocnemis marmorata</i> (Lamarck, 1816)	+	+	*	.	+	+	.	0-100
<i>Ophiogymna elegans</i> Ljungman, 1867	+	+	*	.	+	+	.	1-348
<i>Ophiogymna funesta</i> Koehler, 1922	.	.	*	.	.	+	.	80-300
<i>Ophiogymna pellicula</i> (Duncan, 1876)	+	.	*	10-116
<i>Ophiogymna pulchella</i> (Koehler, 1905)	.	+	*	.	.	+	.	73-247
<i>Ophiomaza cacaotica</i> Lyman, 1871	.	+	*	+	+	+	+	0-80
<i>Ophiopsammium semperi</i> Lyman, 1874	+	+	*	0-50
<i>Ophiopteron elegans</i> Ludwig, 1888	.	+	+	+	.	+	+	0-189
<i>Ophiopteron vitiense</i> Koehler, 1927	+	.	*	.	+	.	.	25-50
<i>Ophiothela danae</i> Verrill, 1869	+	+	*	+	+	+	+	0-120
<i>Ophiothela venusta</i> (de Loriol, 1900)	.	.	.	+	+	.	.	0-40
<i>Ophiothrix capillaris</i> Lyman, 1879	.	.	+	.	.	+	+	22-750
<i>Ophiothrix contenta</i> Koehler, 1930	.	.	+	—
<i>Ophiothrix eurycolpodes</i> H.L. Clark, 1918	.	.	*	—
<i>Ophiothrix (Acanthophiothrix) deceptor</i> Koehler, 1922	.	.	*	—
<i>Ophiothrix (Acanthophiothrix) leucotrigona</i> H.L. Clark, 1918	.	.	+	.	+	.	.	96-107
<i>Ophiothrix (Acanthophiothrix) proteus</i> Koehler, 1905	.	+	*	.	.	+	.	0-125
<i>Ophiothrix (Acanthophiothrix) purpurea</i> von Martens, 1867	.	+	+	+	.	+	+	0-1046
<i>Ophiothrix (Acanthophiothrix) scotiosa</i> Murakami, 1943	+	+	.	—
<i>Ophiothrix (Acanthophiothrix) signata</i> Koehler, 1922	.	.	+	129-139
<i>Ophiothrix (Acanthophiothrix) spinosissima</i> Koehler, 1905	.	+	+	+	+	.	.	2-36
<i>Ophiothrix (Acanthophiothrix) vetusta</i> Koehler, 1930	.	.	+	191-245
<i>Ophiothrix (Acanthophiothrix) vigelandi</i> A.M. Clark, 1968	.	.	+	.	+	.	.	0-618
<i>Ophiothrix (Acanthophiothrix) viridialba</i> von Martens, 1867	+	.	11-170
<i>Ophiothrix (Ophiothrix) ciliaris</i> (Lamarck, 1816)	+	+	+	.	+	+	+	0-308
<i>Ophiothrix (Ophiothrix) crassispina</i> Koehler, 1904	.	.	+	186-274
<i>Ophiothrix (Ophiothrix) elegans</i> Lütken, 1869	.	+	*	+	.	+	.	0-67
<i>Ophiothrix (Ophiothrix) exigua</i> Lyman, 1874	+	+	*	+	+	+	+	0-140
<i>Ophiothrix (Ophiothrix) foveolata</i> Marktanner-Turneretscher, 1887	.	.	*	0-141
<i>Ophiothrix (Ophiothrix) infirma</i> Koehler, 1905	.	.	+	.	.	.	+	54-200
<i>Ophiothrix (Ophiothrix) koreana</i> Duncan, 1879	.	.	+	3-400
<i>Ophiothrix (Ophiothrix) marenzelleri</i> Koehler, 1904	+	.	0-128
<i>Ophiothrix (Ophiothrix) miles</i> Koehler, 1905	.	+	.	.	+	.	.	0-14
<i>Ophiothrix (Ophiothrix) plana</i> Lyman, 1874	+	+	+	+	+	+	+	0-70
<i>Ophiothrix (Ophiothrix) prostata</i> Koehler, 1922	+	.	+	2-46
<i>Ophiothrix (Ophiothrix) rotata</i> von Martens, 1870	.	+	.	.	.	+	.	9

Taxa	Distribution							Depth range m.
	1	2	3	4	5	6	7	
<i>Ophiothrix (Ophiothrix) savignyi</i> (Müller & Troschel, 1842)	.	.	+	.	+	+	.	—
<i>Ophiothrix (Ophiothrix) trilineata</i> Lütken, 1869	.	+	+	.	.	+	+	0-54
<i>Ophiothrix (Ophiothrix) vitrea</i> Döderlein, 1896	.	.	+	3-300
<i>Ophiothrix (Theophrix) pusilla</i> Lyman, 1874	.	.	*	.	.	+	.	5-54
Ophiocomidae								
<i>Ophiarthrum elegans</i> Peters, 1851	.	+	*	+	+	+	.	0-36
<i>Ophiarthrum pictum</i> (Müller & Troschel, 1842)	.	.	+	+	.	+	.	0-20
<i>Ophiocoma anaglyptica</i> Ely, 1944	+	.	0-20
<i>Ophiocoma brevipes</i> Peters, 1851	.	+	+	+	.	+	.	0-54
<i>Ophiocoma dentata</i> Müller & Troschel, 1842	.	+	.	+	.	+	+	0-35
<i>Ophiocoma erinaceus</i> Müller & Troschel, 1842	.	+	+	+	.	+	+	0-27
<i>Ophiocoma pica</i> Müller & Troschel, 1842	.	+	+	.	.	+	+	0-24
<i>Ophiocoma pusilla</i> (Brock, 1888)	+	+	0-20
<i>Ophiocoma schoenleini</i> Müller & Troschel, 1842	.	.	.	+	+	.	+	0-20
<i>Ophiocoma scolopendrina</i> (Lamarck, 1816)	.	+	+	+	.	+	+	0-13
<i>Ophiocomella sexradia</i> (Duncan, 1887)	+	+	+	+	.	+	+	0-15
<i>Ophiomastix annulosa</i> (Lamarck, 1816)	.	+	+	.	.	+	+	0-57
<i>Ophiomastix asperula</i> Lütken, 1869	.	+	*	.	.	+	.	0-20
<i>Ophiomastix caryophyllata</i> Lütken, 1869	.	+	.	.	.	+	.	0-54
<i>Ophiomastix corallicola</i> H. L. Clark, 1915	+	.	0-20
<i>Ophiomastix flaccida</i> Lyman, 1874	.	.	+	+	.	.	.	0-82
<i>Ophiomastix janualis</i> Lyman, 1871	.	.	+	+	.	+	.	0-22
<i>Ophiomastix mixta</i> Lütken, 1869	.	+	+	+	.	+	.	0-54
<i>Ophiomastix variabilis</i> Koehler, 1905	.	.	*	+	.	+	.	0-60
<i>Ophiomastix venosa</i> Peters, 1851	.	.	+	+	.	.	.	—
<i>Ophiopsila abscissa</i> Liao, 1982	.	+	.	.	.	+	+	30-120
<i>Ophiopsila pantherina</i> Koehler, 1898	.	+	.	.	+	+	.	0-100
Ophionereididae								
<i>Ophiochiton fastigatus</i> Lyman, 1878	.	.	+	.	.	+	.	128-1628
<i>Ophionereis dubia amoyensis</i> A.M. Clark, 1953	.	+	.	.	+	+	.	0-34
<i>Ophionereis dubia dubia</i> (Müller & Troschel, 1842)	.	+	*	.	+	+	+	0-230
<i>Ophionereis fusca</i> Brock, 1888	.	+	0-45
<i>Ophionereis porrecta</i> Lyman, 1860	+	+	+	0-60
<i>Ophionereis variegata</i> Duncan, 1879	.	+	.	.	.	+	.	0-60
Ophiodermatidae								
<i>Bathypectinura heros</i> (Lyman, 1879)	.	+	+	.	.	+	.	240-2960
<i>Cryptopelta longibrachialis</i> Koehler, 1930 ¹⁴	.	.	*	.	+	+	.	13-243
<i>Ophiarachna affinis</i> Lütken, 1869	.	+	*	0-25
<i>Ophiarachna incrassata</i> (Lamarck, 1816)	.	+	+	+	.	+	+	0-97
<i>Ophiarachna ohshimai</i> Murakami, 1943	+	.	—
<i>Ophiarachnella elegans</i> (Bell, 1894)	+	.	24-64
<i>Ophiarachnella gorgonia</i> (Müller & Troschel, 1842)	.	+	+	+	+	+	+	0-50
<i>Ophiarachnella infernalis</i> (Müller & Troschel, 1842)	+	+	*	.	+	+	+	0-233
<i>Ophiarachnella macracantha</i> H.L. Clark, 1909	.	.	*	.	+	.	.	30
<i>Ophiarachnella paucispina</i> (Koehler, 1905)	+	.	34-83
<i>Ophiarachnella septemspinosa</i> (Müller & Troschel, 1842)	.	.	+	+	.	+	.	0-55
<i>Ophiarachnella similis</i> (Koehler, 1905)	.	+	*	.	+	.	.	0-59
<i>Ophiarachnella stabilis</i> (Koehler, 1905)	+	.	12-83
<i>Ophiochaeta hirsuta</i> Lütken, 1869	+	.	.	0-26
<i>Ophiochasma stellatum</i> (Ljungman, 1867)	+	.	*	+	+	.	+	0-110
<i>Ophiocoris cincta</i> Brock, 1888	.	+	+	.	.	+	.	0-111

14 possible synonym of *Cryptopelta granulifera* H.L. Clark, 1909; see Rowe & Gates, 1995: 395.

Taxa	Distribution							Depth range m.
	1	2	3	4	5	6	7	
<i>Ophioconis cupida</i> Koehler, 1905	.	.	*	.	+	+	.	10-600
<i>Ophioderma tonganum</i> Lütken, 1872 ¹⁵	+	.	.	—
<i>Ophiodyscrita acosmeta</i> H. L. Clark, 1938	.	.	.	+	.	.	.	0-20
<i>Ophiopeza fallax</i> Peters, 1851	.	.	*	+	.	.	.	25
<i>Ophiopeza spinosa</i> (Ljungman, 1867)	.	.	*	.	+	+	+	0-74
<i>Ophiopsammus aequalis</i> (Lyman, 1880)	.	.	+	161-401
<i>Ophiopsammus yoldii</i> (Lütken, 1856)	.	.	*	.	.	.	+	0-215
Ophioleucidae								
<i>Ophiocirce inutilus</i> Koehler, 1904	.	.	+	112-209
<i>Ophioleuce seminudum</i> Koehler, 1904	.	+	.	.	.	+	+	50-1635
<i>Ophiopallas paradoxa</i> Koehler, 1904	.	+	+	.	.	+	.	112-500
Ophiuridae								
<i>Amphiophiura canaliculata</i> Koehler, 1922	.	.	‡	106
<i>Amphiophiura insolita</i> (Koehler, 1904)	.	.	+	.	.	+	.	204-1236
<i>Amphiophiura paupera</i> (Koehler, 1896)	.	.	+	.	.	.	+	743-1289
<i>Amphiophiura pertusa</i> Koehler, 1930	.	.	+	179-300
<i>Amphiophiura spatulifera</i> Koehler, 1922	.	.	‡	959
<i>Amphiophiura sculptilis</i> (Lyman, 1878)	+	+	457-3429
<i>Amphiophiura sordida</i> (Koehler, 1897)	.	.	+	.	.	+	+	250-1280
<i>Ophiolepis cardioplax</i> Murakami, 1943	.	+	.	.	+	.	.	littoral
<i>Ophiolepis cincta</i> Müller & Troschel, 1842	.	+	+	.	+	+	+	0-45
<i>Ophiolepis rugosa</i> Koehler, 1898	.	.	*	.	+	.	.	5-73
<i>Ophiolepis superba</i> H.L. Clark, 1915	.	+	+	+	+	+	.	0-30
<i>Ophiolipus granulatus</i> Koehler, 1897	.	+	*	.	.	+	.	205-470
<i>Ophiomastus tegulitius</i> Lyman, 1878	+	+	510-4840
<i>Ophiomusium corticosum</i> Lyman, 1878	.	+	.	.	.	+	+	3383
<i>Ophiomusium facetum</i> Koehler, 1922	.	.	‡	513-1752
<i>Ophiomusium facundum</i> Koehler, 1922	.	+	‡	.	.	+	.	454-1400
<i>Ophiomusium lymani</i> Thomson, 1873	.	.	+	.	.	+	+	130-4000
<i>Ophiomusium luetkeni</i> Lyman, 1878	.	.	+	196-1125
<i>Ophiomusium scalare</i> Lyman, 1878	.	+	*	.	.	+	.	124-1224
<i>Ophiomusium simplex</i> Lyman, 1878	.	.	+	.	.	+	+	100-300
<i>Ophioplocus declinans</i> (Koehler, 1904)	.	.	+	183-187
<i>Ophioplocus imbricatus</i> (Müller & Troschel, 1842)	.	+	+	.	.	+	.	0-30
<i>Ophioplocus japonicus</i> H. L. Clark, 1911	+	.	0-2
<i>Ophiotylos brevipes</i> Liao, 1978	‡	.	0-5
<i>Ophiotylos leucus</i> Murakami, 1943	+	.	.	—
<i>Ophiozonella bispinosa</i> (Koehler, 1897)	.	.	+	150-382
<i>Ophiozonella molesta</i> (Koehler, 1904)	.	.	+	.	.	+	.	68-1270
<i>Ophiozonella subtilis</i> Koehler, 1922	.	+	+	.	.	+	+	149-929
<i>Ophiura aequalis</i> Lyman, 1878	.	.	+	694-2194
<i>Ophiura clemens</i> (Koehler, 1904)	.	.	+	686-1264
<i>Ophiura flagellata</i> (Lyman, 1878)	.	+	+	.	.	+	+	96-2330
<i>Ophiura kinbergi</i> (Ljungman, 1867)	+	+	+	.	+	+	.	0-500
<i>Ophiura lanceolata</i> H.L. Clark, 1939	+	.	122-293
<i>Ophiura micracantha</i> H.L. Clark, 1911	.	+	*	.	.	+	+	144-472
<i>Ophiura pteracantha</i> Liao, 1983	.	‡	.	.	.	+	+	3-93
<i>Sinophiura multispina</i> (Koehler, 1922)	.	.	*	.	.	+	+	51-357
<i>Stegophiura hainanensis</i> Liao, 1995	‡	.	158
<i>Stegophiura sterilis</i> Koehler, 1922	‡	.	380

15 presence of genus *Ophioderma* in Indo-west Pacific questionable - see comments by A.M.C. in Clark & Rowe, 1971: 126.

Taxa	Distribution							Depth range m.
	1	2	3	4	5	6	7	
ECHINOIDEA								
<i>Order CIDAROIDA</i>								
Cidaridae								
<i>Chondrocidaris brevispina</i> H.L. Clark, 1925	+	.	.	0-15
<i>Eucidaris metularia</i> (Lamarck, 1816)	.	+	+	.	.	+	+	0-570
<i>Goniocidaris tenuispina</i> Mortensen, 1927	.	.	+	570-1411
<i>Phyllacanthus imperialis</i> (Lamarck, 1816)	.	+	*	.	+	+	.	0-73
<i>Prionocidaris australis</i> (Ramsay, 1885)	.	.	+	.	.	+	.	10-145
<i>Prionocidaris baculosa</i> (Lamarck, 1816)	+	+	+	.	+	+	+	0-250
<i>Prionocidaris bispinosa</i> (Lamarck, 1816)	.	+	.	.	+	+	.	4-125
<i>Prionocidaris verticillata</i> (Lamarck, 1816)	.	+	+	.	.	+	.	0-54
<i>Stereocidaris grandis</i> Döderlein, 1887	.	.	+	204-716
<i>Stereocidaris indica</i> Döderlein, 1901	.	.	+	.	.	+	.	400-1298
<i>Stylocidaris annulosa</i> Mortensen, 1927	.	+	+	.	.	+	+	125-300
<i>Stylocidaris reini</i> (Döderlein, 1887)	.	+	*	.	.	+	+	100-841
<i>Order ECHINOTHURIOIDA</i>								
Echinothuriidae								
<i>Araeosoma owstoni</i> Mortensen, 1904	.	+	*	.	.	+	+	70-540
<i>Araeosoma tessellatum</i> var. <i>carinatum</i> Mortensen, 1934	.	.	+	385
<i>Asthenosoma heteractis</i> Bedford, 1900	+	+	+	.	.	+	.	9
<i>Asthenosoma ijimai</i> Yoshiwara, 1897 ¹⁶	.	.	*	.	.	+	.	7-300
<i>Asthenosoma varium</i> Grube, 1868	+	+	*	.	L	+	+	0-167
<i>Calverosoma gracile</i> (A. Agassiz, 1881)	.	.	*	.	.	+	+	145-950
<i>Hygrosoma hoplacantha</i> (Thomson, 1877)	.	.	+	.	.	+	.	360-2068
Phormosomatidae								
<i>Phormosoma bursarium</i> A. Agassiz, 1881	.	.	+	+	.	.	.	170-2340
<i>Order DIADEMATOIDA</i>								
Aspidodiadematidae								
<i>Aspidodiadema tonsum</i> A. Agassiz, 1879	.	.	*	180-1135
<i>Plesiodiadema indicum</i> (Döderlein, 1900)	.	.	+	240-1150
Diadematidae								
<i>Astropyga radiata</i> (Leske, 1778)	+	+	+	.	+	+	+	0-70
<i>Chaetodiadema granulatum</i> Mortensen, 1903	+	+	*	.	.	+	+	15-216
<i>Chaetodiadema japonicum</i> Mortensen, 1904	.	.	+	50-135
<i>Diadema paucispinum</i> A. Agassiz, 1863	+	.	.	0-40
<i>Diadema savignyi</i> Michelin, 1845	+	+	*	+	+	+	.	0-70
<i>Diadema setosum</i> (Leske, 1778)	+	+	+	+	+	+	+	0-70
<i>Echinothrix calamaris</i> (Pallas, 1774)	+	+	+	+	+	+	+	0-90
<i>Echinothrix diadema</i> (Linnaeus, 1758)	+	+	*	+	+	+	.	3-10
<i>Eremopyga debilis</i> Mortensen, 1940	.	+	*	200-400
<i>Eremopyga denudata</i> (de Meijere, 1904)	.	+	+	.	.	+	.	70-275
<i>Order PHYMOSOMATOIDA</i>								
Arbaciidae								
<i>Arbacia incisa</i> (A. Agassiz, 1863)	.	.	*	0-29
<i>Coelopleurus maillardi</i> (Michelin, 1862)	.	.	+	23-250
<i>Coelopleurus maculatus</i> A. Agassiz & H.L. Clark, 1907	.	.	*	.	.	+	.	60-360
Stomopneustidae								
<i>Stomopneustes variolaris</i> (Lamarck, 1816)	.	+	.	.	.	+	+	0-10

16 status of *Asthenosoma ijimai* Yoshiwara, 1897 uncertain - see Weinberg & de Ridder, 1998: 44.

Taxa	Distribution							Depth range m.
	1	2	3	4	5	6	7	
<i>Order MICROPYGOIDA</i>								
Micropygidae								
<i>Micropyga tuberculata</i> A. Agassiz, 1879	.	.	+	150-1340
<i>Micropyga violacea</i> de Meijere, 1904	.	.	+	625-925
<i>Order PEDINOIDA</i>								
Pedinidae								
<i>Caenopedina indica</i> (de Meijere, 1904)	.	.	+	c.245-985
<i>Order TEMNOPLEUROIDA</i>								
Temnopleuridae								
<i>Desmechinus anomalus</i> H.L. Clark, 1923	.	+	.	.	.	+	.	—
<i>Desmechinus rufus</i> (Bell, 1894)	+	+	*	.	.	✚	.	20-80
<i>Desmechinus versicolor</i> (Mortensen, 1904)	.	.	+	.	.	✚	.	70-100
<i>Mespilia globulus</i> (Linnaeus, 1758)	.	+	+	+	.	+	.	0-c.60
<i>Microcyphus ceylanicus</i> Mortensen, 1942	.	+	.	.	+	.	.	<20
<i>Paratrema doederleini</i> (Mortensen, 1904)	✚	+	*	.	.	+	.	10-20
<i>Prionechinus forbesianus</i> (A. Agassiz 1881)	.	.	+	139-1370
<i>Salmaciella dussumieri</i> (L. Agassiz, 1846)	+	+	*	.	✚	+	+	7-180
<i>Salmacis belli</i> Döderlein, 1902	+	+	*	10-125
<i>Salmacis bicolor</i> L. Agassiz, 1846	+	+	*	.	+	+	+	0-122
<i>Salmacis sphaeroides</i> (Linnaeus, 1758)	+	+	*	.	+	+	.	0-c.90
<i>Salmacis virgulata</i> L. Agassiz, 1846	+	+	*	.	+	+	.	10-55
<i>Temnopleurus alexandri</i> (Bell, 1884)	+	.	.	9-73
<i>Temnopleurus apodus</i> (A. Agassiz & H. L. Clark, 1907)	.	+	.	.	.	+	.	18-500
<i>Temnopleurus decipiens</i> (de Meijere, 1904)	.	.	*	.	.	+	.	18-40
<i>Temnopleurus hardwicki</i> (Gray, 1855)	.	.	*	.	.	+	.	c.5-65
<i>Temnopleurus reevesi</i> (Gray, 1855)	+	+	*	.	+	+	+	c.5-565
<i>Temnopleurus toreumaticus</i> (Leske, 1778)	+	+	*	.	+	+	.	0-82
<i>Temnotrema bothryoides</i> (L. Agassiz, 1846)	+	+	.	.	.	+	.	73-80
<i>Temnotrema maculatum</i> (Mortensen, 1904)	.	+	.	.	.	+	.	10-112
<i>Temnotrema reticulatum</i> (Mortensen, 1904)	+	+	*	.	.	+	.	c.25-290
<i>Temnotrema sculptum</i> A. Agassiz, 1863	.	.	+	+	.	+	.	0-c.500
<i>Temnotrema siamense</i> (Mortensen, 1904)	✚	+	*	.	.	+	.	c.5-350
<i>Temnotrema xishaensis</i> Liao, 1978	✚	.	—
<i>Order ECHINOIDA</i>								
Toxopneustidae								
<i>Cyrtechinus verruculatus</i> (Lütken, 1864)	.	+	*	.	.	+	.	0-c.130
<i>Gymnechinus epistichus</i> H.L. Clark, 1912	.	.	*	.	+	.	.	0-63
<i>Goniopneustes pentagonus</i> (A. Agassiz, 1872)	+	✚	.	c.50-90
<i>Nudechinus ambonensis</i> Mortensen, 1942	+	.	.	0-c.50
<i>Nudechinus inconspicuus</i> (Mortensen, 1904)	+	.	.	0-20
<i>Nudechinus multicolor</i> (Yoshiwara, 1898)	.	.	*	.	.	+	.	0-10
<i>Nudechinus stictus</i> H.L. Clark, 1912	.	.	*	.	.	+	.	13-20
<i>Pseudoboletia indiana</i> (Michelin, 1862)	.	+	*	.	.	+	.	0-100
<i>Pseudoboletia maculata</i> Troschel, 1869	.	.	*	.	.	+	.	10-82
<i>Toxopneustes pileolus</i> (Lamarck, 1816)	+	+	+	.	+	+	.	0-90
<i>Tripneustes gratilla</i> (Linnaeus, 1758)	.	+	+	.	.	+	+	0-c.75
Parasaleneiidae								
<i>Parasalenia gratiosa</i> A. Agassiz, 1863	+	+	+	+	.	+	.	0-70
<i>Parasalenia poehli</i> Pfeffer, 1887	.	.	*	.	+	+	+	0-70

Taxa	Distribution							Depth range m.
	1	2	3	4	5	6	7	
Echinometridae								
<i>Anthocidaris crassispina</i> (A. Agassiz, 1863)	.	+	.	.	.	‡	.	0-70
<i>Colobocentrotus mertensi</i> Brandt, 1835	+	+	.	littoral
<i>Colobocentrotus pedifer</i> (de Blainville, 1825)	+	.	.	—
<i>Echinometra mathaei</i> (de Blainville, 1825)	.	+	+	.	+	+	+	0-139
<i>Echinometra oblonga</i> (de Blainville, 1825)	.	.	+	0-?
<i>Echinostrephus aciculatus</i> A. Agassiz, 1863	.	.	*	.	+	+	.	0-c.50
<i>Echinostrephus molaris</i> (de Blainville, 1825)	.	+	.	+	.	+	+	0-c.50
<i>Heterocentrotus mammillatus</i> (Linnaeus, 1758)	.	+	+	+	.	+	+	0-30
<i>Heterocentrotus trigonarius</i> (Lamarck, 1816)	.	.	*	.	+	+	.	0-36
Strongylocentrotidae								
<i>Hemicentrotus pulcherrimus</i> (A. Agassiz, 1863)	.	+	.	.	.	+	.	0-c.45
Order CASSIDULOIDA								
Echinolampadidae								
<i>Conolampas diomedea</i> Mortensen, 1948	.	.	+	181-265
<i>Echinolampas alexandri</i> de Loriol, 1876	.	+	+	+	+	.	.	c. 8-365
<i>Echinolampas ovata</i> (Leske, 1778)	+	.	.	.	+	.	.	c. 9-75
Order HOLECTYPOIDA								
Echinoneidae								
<i>Echinoneus abnormalis</i> de Loriol, 1883	.	.	.	+	.	+	.	0-85
<i>Echinoneus cyclostomus</i> Leske, 1778	+	+	+	+	+	+	+	0-120
<i>Micropetalon purpureum</i> A. Agassiz & H. L. Clark, 1907	+	.	c.45-70
Order CLYPEASTEROIDA								
Clypeasteridae								
<i>Clypeaster (Coronanthus) latissimus</i> (Lamarck, 1816)	+	+	.	+	+	+	.	25-56
<i>Clypeaster (Leptoclypus) annandalei</i> Koehler, 1922	.	.	+	+	.	.	.	160-475
<i>Clypeaster (Leptoclypus) rarispinus</i> de Meijere, 1902	+	.	.	7-91
<i>Clypeaster (Rhaphidoclypus) fervens</i> Koehler, 1922	.	.	+	+	+	+	.	0-216
<i>Clypeaster (Rhaphidoclypus) reticulatus</i> (Linnaeus, 1758)	+	+	+	+	+	+	+	0-125
<i>Clypeaster (Stolonoclypus) humilis</i> (Leske, 1778)	.	+	+	.	+	+	.	0-216
<i>Clypeaster (Stolonoclypus) miniaceus</i> H.L.Clark, 1925	+	‡	.	c.70-230
<i>Clypeaster (Stolonoclypus) virescens</i> Döderlein, 1885	+	+	+	+	+	+	.	27-630
Arachnoididae								
<i>Arachnoides placenta</i> (Linnaeus, 1758)	+	+	+	+	+	+	.	0-57
Fibulariidae								
<i>Echinocyamus crispus</i> Mazzetti, 1894	.	+	+	+	+	+	+	13-564
<i>Echinocyamus provectus</i> de Meijere, 1904	.	.	+	+	.	+	.	75-390
<i>Echinocyamus scaber</i> de Meijere, 1904	.	.	.	+	+	.	.	c.200-1886
<i>Fibularia acuta</i> Yoshiwara, 1898	+	+	+	+	+	+	.	0-90
<i>Fibularia angulipora</i> Mortensen, 1948	‡	+	+	.	+	+	.	0-c.15
<i>Fibularia cribellum</i> de Meijere, 1904	.	.	+	+	+	+	.	14-522
<i>Fibularia oblonga</i> Gray, 1851	+	+	.	.	+	+	.	24
<i>Fibularia ovulum</i> Lamarck, 1816	+	+	+	+	+	+	.	0-385
<i>Fibularia volva</i> L. Agassiz, 1847	+	+	.	.	+	+	.	0-94

Taxa	Distribution							Depth range m.
	1	2	3	4	5	6	7	
Laganidae								
<i>Laganum decagonale</i> (de Blainville, 1827)	+	+	+	.	+	+	+	c.5-300
<i>Laganum depressum</i> Lesson, 1841	.	+	+	+	+	+	+	0-c.85
<i>Laganum laganum</i> (Leske, 1778)	+	+	+	+	+	+	.	0-34
<i>Laganum fudsiyama</i> Döderlein, 1885	.	.	+	+	+	+	+	c.50-654
<i>Peronella lesueuri</i> (Valenciennes, 1841)	+	+	+	+	+	+	+	0-c.70
<i>Peronella macroproctes</i> Koehler, 1922	.	.	+	+	+	.	.	5-106
<i>Peronella minuta</i> (de Meijere, 1904)	.	+	+	.	.	+	.	c.13-72
<i>Peronella orbicularis</i> (Leske, 1778)	+	+	+	+	+	+	.	0-70
<i>Peronella pellucida</i> Döderlein, 1885	.	.	+	c.75-550
<i>Peronella rubra</i> (Döderlein, 1885)	+	.	.	.	+	+	.	5-60
Astriclypeidae								
<i>Astriclypeus manni</i> Verrill, 1867	.	+	.	.	.	+	.	0-40
<i>Echinodiscus auritus</i> Leske, 1778	+	+	+	+	+	+	.	0-57
<i>Echinodiscus bisperforatus</i> Leske, 1778	+	+	.	+	+	+	.	<20
<i>Echinodiscus tenuissimus</i> (L.Agassiz, 1847)	+	+	+	+	+	+	.	0-c.20
Dendrasteridae								
<i>Sinaechinocyamus mai</i> (Wang, 1984)	.	.	*	.	.	✦	.	lower shore
Order SPATANGOIDA								
Spatangidae								
<i>Gymnopatagus magnus</i> A. Agassiz & H.L. Clark, 1907	.	.	*	c.780-1730
<i>Maretia cordata</i> Mortensen, 1948	.	.	+	+	.	+	.	c.50-150
<i>Maretia planulata</i> (Lamarck, 1816)	+	+	+	+	L	+	.	0-c.60
<i>Nacospatangus alta</i> (A. Agassiz, 1863)	+	+	*	+	+	+	.	2-204
Palaeostomatidae								
<i>Palaeostoma mirabile</i> (Gray, 1851)	+	+	+	+	+	+	.	c.20-110
Asterostomatidae								
<i>Argopatagus vitreus</i> A. Agassiz, 1879	.	.	+	+	+	.	.	c.460-2250
<i>Heterobrissus niasicus</i> (Döderlein, 1901)	.	.	+	.	+	.	.	125-475
<i>Linopneustes excentricus</i> de Meijere, 1902	.	.	+	694-1788
<i>Linopneustes fragilis</i> (de Meijere, 1902)	.	.	+	.	.	.	+	c.560-1170
<i>Linopneustes murrayi</i> (A. Agassiz, 1879)	.	.	+	+	+	+	+	620-1615
<i>Platybrissus roemeri</i> Grube, 1866	+	.	0-100
<i>Platybrissus ovalis</i> (Mortensen, 1948)	.	.	+	.	.	+	.	192
<i>Plesiozonus diomedae</i> Mortensen, 1948	.	.	+	.	.	+	+	c.180-345
<i>Plesiozonus tenuis</i> David & de Ridder, 1989	.	.	+	181-190
Loveniidae								
<i>Echinocardium cordatum</i> (Pennant, 1777)	.	+	+	+	+	+	.	0-c.230
<i>Homolampas lovenioides</i> Mortensen, 1948	.	.	+	987
<i>Lovenia doederleini</i> Mortensen, 1950	.	.	+	+	+	+	.	10-35
<i>Lovenia elongata</i> (Gray, 1845)	+	+	+	+	+	+	+	0-94
<i>Lovenia gregalis</i> Alcock, 1893	+	+	.	.	+	+	.	c.274-930
<i>Lovenia subcarinata</i> (Gray, 1845)	+	+	+	+	+	+	.	c.10-49
<i>Lovenia triforis</i> Koehler, 1914	+	+	.	+	+	+	.	43-270
Pericosmidae								
<i>Pericosmus melanostomus</i> Mortensen, 1948	+	+	.	+	+	✦	.	18-70
<i>Pericosmus porphyrocardius</i> McNamara, 1984	+	+	.	+	+	+	+	217-420
Schizasteridae								
<i>Faorina chinensis</i> Gray, 1851	+	+	+	+	+	✦	+	41-220
<i>Moiria lachesinella</i> Mortensen, 1930	+	+	.	.	+	.	.	<50
<i>Moiria stygia</i> A. Agassiz, 1872	+	+	.	.	+	.	.	6-15

Taxa	Distribution							Depth range m.
	1	2	3	4	5	6	7	
<i>Proraster affinis</i> (Mortensen, 1948)	.	.	+	+	+	.	.	915-1630
<i>Prymnastrer rostratus</i> (Smith, 1878)	+	.	0
<i>Schizaster (Paraster) compactus</i> (Koehler, 1914)	.	+	.	.	.	+	.	30-900
<i>Schizaster (Schizaster) lacunosus</i> (Linnaeus, 1758)	.	+	*	.	.	+	.	4-c.90
Brissidae								
<i>Anametalia sternaloides</i> (Bolau, 1874)	+	+	*	.	+	+	.	16-88
<i>Brissopsis luzonica</i> (Gray, 1851)	+	+	+	.	+	+	+	10-1788
<i>Brissopsis oldhami</i> Alcock, 1893	.	.	+	+	.	.	.	c.1040-2140
<i>Brissopsis similis</i> Mortensen, 1948	.	.	+	129-1420
<i>Brissus latecarinatus</i> (Leske, 1778)	+	+	+	+	+	+	.	0-c.45
<i>Eupatagus magnus</i> (A. Agassiz & H. L. Clark, 1907)	+	+	+	+	+	+	.	c.780-1730
<i>Metalia dicrana</i> H.L. Clark, 1917	.	+	+	.	+	+	.	0-21
<i>Metalia spatagus</i> (Linnaeus, 1758)	+	+	*	+	+	+	.	0-c.130
<i>Metalia sternalis</i> (Lamarck, 1816)	+	+	+	+	+	+	+	0-c.90
<i>Rhynobrissus pyramidalis</i> A. Agassiz, 1872	+	+	.	.	+	+	.	0-18
Order HOLASTEROIDA								
Pourtalesiidae								
<i>Stereopneustes relictus</i> de Meijere, 1902	.	.	+	+	+	.	+	250-907
Urechinidae								
<i>Sternopatagus sinensis</i> Bather, 1934	+	+	.	.	+	.	.	—
HOLOTHUROIDEA								
Order ASPIDOCHIROTIDA								
Holothuriidae								
<i>Actinopyga echinites</i> (Jaeger, 1833)	.	+	+	+	.	+	.	0-5
<i>Actinopyga flammea</i> Cherrbonnier, 1979	.	.	.	+	+	.	.	35-60
<i>Actinopyga lecanora</i> (Jaeger, 1833)	.	+	+	.	+	+	+	0-23
<i>Actinopyga mauritiana</i> (Quoy & Gaimard, 1833)	.	+	+	+	.	+	+	0-12
<i>Actinopyga miliaris</i> (Quoy & Gaimard, 1833)	.	.	+	.	+	+	.	0-20
<i>Actinopyga obesa</i> (Selenka, 1867)	.	.	+	.	+	+	.	0-25
<i>Bohadschia argus</i> (Jaeger, 1833)	.	+	+	+	+	+	+	0-40
<i>Bohadschia marmorata</i> (Jaeger, 1833)	.	+	+	+	+	+	+	0-36
<i>Bohadschia paradoxa</i> (Selenka, 1867) ¹⁷	.	.	+	.	.	+	.	0-41
<i>Bohadschia similis</i> (Semper, 1868) ¹⁸	.	+	+	.	+	+	.	1-16
<i>Bohadschia tenuissima</i> (Semper, 1868) ¹⁸	.	+	+	.	+	+	.	8-25
<i>Bohadschia vitiensis</i> (Semper, 1868) ¹⁸	.	.	+	+	+	+	.	1-15
<i>Holothuria</i>								
<i>(Acanthotrapeza) coluber</i> Semper, 1868	.	+	+	+	+	.	.	0-25
<i>(Acanthotrapeza) kubaryi</i> Ludwig, 1875	+	.	.	<20
<i>(Cystipus) inhabilis</i> Selenka, 1867	+	+	.	0-200
<i>(Cystipus) dura</i> Cherrbonnier & Feral, 1981	.	.	+	100-210
<i>(Cystipus) rigida</i> (Selenka, 1867)	.	+	+	.	.	+	.	0-20
<i>(Halodeima) atra</i> Jaeger, 1833	.	+	+	+	+	+	+	0-30
<i>(Halodeima) edulis</i> Lesson, 1830	.	+	+	+	+	+	.	0-45
<i>(Halodeima) pulla</i> Selenka, 1867	.	.	+	.	+	.	.	<20
<i>(Lessonothuria) lineata</i> Ludwig, 1875 ¹⁹	.	+	+	+	+	+	.	0-?10

17 occurrence beyond Hawaiian islands requires confirmation according to Rowe & Gates, 1995: 289.

18 validity of these spp. debatable; possible synonymy with *Bohadschia marmorata* (Jaeger, 1833) requires re-examination - see Rowe & Gates, 1995: 289.19 The identifications in Liao & Clark, 1995 and Liao, 1997 of *Holothuria (Lessonothuria) pardalis* Selenka, 1867 and *Holothuria (Lessonothuria) insignis* Ludwig, 1875 are confused; *Holothuria (L.) insignis* is a junior synonym of *Holothuria (L.) pardalis*, while *Holothuria (L.) pardalis* in Liao & Clark, 1995:438 and Liao, 1997:105 is referable to *Holothuria (Lessonothuria) lineata* Ludwig, 1875 (F.W.E.R.).

Taxa	Distribution							Depth range m.
	1	2	3	4	5	6	7	
<i>(Lessonothuria) multipilula</i> Liao, 1975	✚	.	—
<i>(Lessonothuria) pardalis</i> Selenka, 1867 ¹⁹	.	.	+	0-?10
<i>(Lessonothuria) verrucosa</i> Selenka, 1867	.	.	*	.	+	+	.	0-30
<i>(Mertensiothuria) leucospilota</i> (Brandt, 1835)	.	+	*	+	+	+	+	0-10
<i>(Metriatyla) albiventer</i> Semper, 1868	.	.	+	.	.	+	.	0-36
<i>(Metriatyla) martensi</i> Semper, 1868	.	+	*	.	.	+	+	0-100
<i>(Metriatyla) scabra</i> Jaeger, 1833	+	+	+	.	+	+	.	1-25
<i>(Microthele) fuscopunctata</i> Jaeger, 1833	+	.	3-12
<i>(Microthele) nobilis</i> (Selenka, 1867) ²⁰	.	.	+	.	.	+	+	shallow water
<i>(Microthele) whitmaei</i> Bell, 1887 ²⁰	.	+	+	+	.	+	.	0-40
<i>(Platyperona) difficilis</i> Semper, 1868	.	+	*	.	.	+	+	0-20
<i>(Platyperona) samoana</i> Ludwig, 1875	.	.	+	.	+	.	.	0-25
<i>(Selenkothuria) erinacea</i> Semper, 1868	.	.	*	.	+	.	.	0-5
<i>(Selenkothuria) moebii</i> Ludwig, 1883	.	+	*	.	+	✚	.	shallow water
<i>(Selenkothuria) sinica</i> Liao, 1980	.	+	.	.	.	✚	.	—
<i>(Semperothuria) cinerascens</i> (Brandt, 1835)	.	+	*	.	+	+	.	0-1.5
<i>(Semperothuria) flavomaculata</i> Semper, 1868	.	+	*	.	.	+	.	0-40
<i>(Semperothuria) imitans</i> Ludwig, 1875	+	.	.	—
<i>(Stauropora) discrepans</i> Semper, 1868	+	.	—
<i>(Stauropora) fuscocinerea</i> Jaeger, 1833	.	+	+	.	+	+	.	0-40
<i>(Stauropora) olivacea</i> Ludwig, 1888	.	+	.	.	.	+	.	0-10
<i>(Stauropora) povicax</i> Selenka, 1867 ²¹	.	+	+	.	.	+	.	0-20
<i>(Thelothuria) asperita</i>								
Cherbonnier & Feral, 1981	.	.	✚	174-223
<i>(Thelothuria) foresti</i>								
Cherbonnier & Feral, 1981	.	.	✚	122-185
<i>(Thelothuria) klunzingeri</i> Lampert, 1885	.	.	+	intertidal
<i>(Thelothuria) notabilis</i> Ludwig, 1875	.	.	+	0-5
<i>(Thelothuria) ocellata</i> (Jaeger, 1833)	+	+	+	.	.	+	+	9-78
<i>(Thelothuria) spinifera</i> Théel, 1886	+	+	*	.	.	+	.	0-60
<i>(Thelothuria) squamifera</i> Semper, 1868	.	+	*	.	+	.	.	10-102
<i>(Thymiosycia) arenicola</i> Semper, 1868	.	+	*	.	.	+	.	0-30
<i>(Thymiosycia) gracilis</i> Semper, 1868	.	+	*	.	.	+	.	shallow water
<i>(Thymiosycia) hilla</i> Lesson, 1830	.	+	+	+	+	+	+	0-220
<i>(Thymiosycia) impatiens</i> (Forskål, 1775)	.	+	+	+	+	+	+	0-30
<i>(Vaneyothuria) integra</i> Koehler & Vaney, 1908	.	.	+	217-230
<i>Labidodemas pertinax</i> (Ludwig, 1875)	+	.	inshore
<i>Labidodemas rugosum</i> (Ludwig, 1875)	.	.	+	.	+	.	.	<20
<i>Labidodemas semperianum</i> Selenka, 1867	.	+	+	.	+	+	+	<30
<i>Pearsonothuria graeffei</i> (Semper, 1868)	.	+	+	+	+	+	+	5-30
Stichopodidae								
<i>Stichopus chloronotus</i> Brandt, 1835	.	+	+	+	+	+	+	0-15
<i>Stichopus flaccus</i> Liao, 1980	.	✚	.	.	.	+	.	28-48
<i>Stichopus hermanni</i> Semper, 1868 ²²	.	+	+	+	+	+	.	0-20
<i>Stichopus horrens</i> Selenka, 1867	.	+	+	.	+	+	+	0-10
<i>Stichopus naso</i> Semper, 1868 ²²	.	+	+	+	+	+	.	0-25
<i>Stichopus pseudohorrens</i> Cherbonnier, 1967	+	+	.	8-60
<i>Thelenota ananas</i> (Jaeger, 1833)	.	+	+	+	+	+	+	0-50
<i>Thelenota anax</i> H.L. Clark, 1921	.	.	*	+	+	+	+	1-30
<i>Thelenota rubralineata</i> Massin & Lane, 1991	+	14-40

20 the previously confused taxonomy of these two bêche de mer species has been sorted out by Rowe & Gates, 1995: 295-296.

21 Liao & Clark's record (1995: 443) may represent *Holothuria (Stauropoda) dofleinii* Augustin, 1908 (F.W.E.R.).

22 Rowe & Gates, 1995: 324-326 recognise the validity of these spp. previously included under the synonymy of *Stichopus variegatus*.

Taxa	Distribution							Depth range m.
	1	2	3	4	5	6	7	
Synallactidae								
<i>Bathyplores imperfectus</i>								
Cherbonnier & Feral, 1981	.	.	‡	415-510
<i>Bathyplores punctatus</i> (Sluiter, 1901)	.	.	+	310-614
<i>Bathyplores sulcatus</i> Sluiter, 1901	.	.	+	90-1800
<i>Bathyplores</i> sp.	+	deep water
<i>Meseres peripatus</i> Sluiter, 1901	+	.	794-1850
<i>Meseres trachus</i> (Sluiter, 1901)	.	.	+	180-1420
<i>Mesothuria crebrapedes</i>								
Cherbonnier & Feral, 1981	.	.	‡	415-510
<i>Mesothuria parva</i> (Théel, 1886)	.	.	+	270-774
<i>Mesothuria regularia</i> Heding, 1940	.	.	+	448-818
<i>Mesothuria verrilli</i> (Théel, 1886)	.	.	+	173-2520
<i>Paelopatides quadridens</i> Heding, 1940	.	.	+	750-925
<i>Synallactes angustus</i> Cherbonnier & Feral, 1981	.	.	‡	415-510
<i>Synallactes crebrapapilla</i>								
Cherbonnier & Feral, 1981	.	.	‡	415-510
Order DENDROCHIROTIDA								
Psolidae								
<i>Psolus boholensis</i> Semper, 1868	.	.	*	—
<i>Psolus complanatus</i> Semper, 1868	.	.	*	—
Cucumariidae								
<i>Actinocumis typicus</i> Ludwig, 1875	.	+	.	.	.	+	.	0-50
<i>Cercodemus anceps</i> (Selenka, 1867)	.	+	.	.	+	‡	+	0-50
<i>Colochirus crassus</i> Ekman, 1918	.	+	0-58
<i>Colochirus quadrangularis</i> Troscchel, 1846	+	+	*	.	‡	+	+	0-115
<i>Colochirus robustus</i> Oestergren, 1898	.	+	7-112
<i>Cucumaria japonica</i> Semper, 1868	.	+	—
<i>Leptopentacta imbricata</i> (Semper, 1868)	.	+	*	.	+	+	+	6-54
<i>Leptopentacta punctabipeda</i> Cherbonnier, 1960	.	‡	.	.	.	+	.	<20
<i>Leptopentacta pygmaea</i> (Semper, 1868)	.	.	*	<20
<i>Mensamaria intercedens</i> (Lampert, 1885)	.	+	.	.	+	.	.	0-183
<i>Plesiocolochirus armatus</i> (von Maranzeller, 1881) ²³	.	+	.	.	.	+	.	0-37
<i>Plesiocolochirus inornatus</i> (von Maranzeller, 1881)	.	.	*	.	.	+	.	86-315
<i>Pseudocnus echinatus</i> (von Maranzeller, 1881)	+	.	0-385
<i>Pseudocolochirus violaceus</i> (Théel, 1886)	.	+	*	.	+	+	.	0-67
Sclerodactylidae								
<i>Afroccumis africana</i> (Semper, 1868)	.	+	.	.	+	+	.	intertidal
<i>Cladolabes aciculus</i> (Semper, 1868)	.	.	+	.	+	+	.	3-8
<i>Cladolabes crassus</i> (H.L. Clark, 1938)	+	‡	.	<20
<i>Cladolabes schmeltzi</i> (Ludwig, 1875)	.	+	*	.	.	+	.	0-23
<i>Euthyonidiella tungshanensis</i> (Yang, 1937)	‡	.	0-80
<i>Ohshimella ehrenbergi</i> (Selenka, 1867)	+	.	3-5
<i>Ohshimella nhatrangensis</i>								
Levin & Dao Tan Ho, 1989	.	‡	—
<i>Sclerodactyla multipes</i> (Théel, 1886)	.	+	50
Phylloporidae								
<i>Havelockia novacorona</i> (Cherbonnier, 1960)	.	‡	—
<i>Havelockia versicolor</i> (Semper, 1868)	.	+	*	.	.	+	.	0-60
<i>Havelockia</i> sp. ²⁴	.	+	.	.	.	+	.	—
<i>Hemithyone semperi</i> (Bell, 1884)	.	+	0-13
<i>Neothyonidium inflatum</i> (Sluiter, 1901)	+	.	37-85

23 considered by F.W.E.R. to include the taxon *Pentacta* [= *Plesiocolochirus*] *nipponensis* (H.L. Clark, 1938).

24 represents a number of nominal species - see Liao & Clark, 1995: 486-487.

Taxa	Distribution							Depth range m.
	1	2	3	4	5	6	7	
<i>Neothyonidium magnum</i> (Ludwig, 1882)	.	.	+	.	.	+	.	0-30
<i>Phyllophorus roseus</i> Cherbonnier & Feral, 1981	.	.	‡	70-76
<i>Phyllophorus (Phyllophorella) dubius</i> Cherbonnier, 1960	.	‡	.	.	.	+	.	<20
<i>Phyllophorus (Phyllophorella) kohkutiensis</i> Heding & Panning, 1954	‡	+	*	.	.	+	.	19-150
<i>Phyllophorus (Phyllophorella) liuwutiensis</i> Yang, 1937	‡	.	intertidal
<i>Phyllophorus (Phyllophorella) spiculata</i> Chang, 1935	.	+	.	.	+	‡	.	0-30
<i>Phyllophorus (Phyllothuria) cebuensis</i> (Semper, 1868)	.	+	*	7-125
<i>Phyllophorus (Phyllothuria) hypsipyrge</i> (von Marenzeller, 1881)	+	.	<20-100
<i>Phyllophorus (Phyllothuria) ordinata</i> Chang, 1935	+	.	<20
<i>Phyrella fragilis</i> (Ohshima, 1912)	.	+	.	.	.	+	.	<20
<i>Semperiella tenera</i> (Ludwig, 1875)	+	.	<20
<i>Stolus albescens</i> Liao, 1995	‡	.	16-109
<i>Stolus buccalis</i> (Stimpson, 1855)	+	+	.	0-54
<i>Stolus canescens</i> (Semper, 1868)	.	.	*	.	.	+	.	21-89
<i>Stolus conjugens</i> (Semper, 1868)	.	.	‡	2-147
<i>Thorsonia adversaria</i> (Semper, 1868)	.	+	*	.	.	+	.	16-50
<i>Thyone anomala</i> Oestergren, 1898	.	+	.	.	.	‡	.	0-103
<i>Thyone bicornis</i> Ohshima, 1915	.	+	.	.	.	+	+	23-61
<i>Thyone fusus chinensis</i> Yang, 1937 ²⁵	‡	.	—
<i>Thyone papuensis</i> Théel, 1886	+	.	0-60
<i>Thyone pedata</i> Semper, 1868	.	+	.	.	.	+	.	c.55
<i>Thyone profusus</i> Cherbonnier & Feral, 1981	.	.	‡	592-610
<i>Thyone spinifera</i> Liao, 1995	.	‡	.	.	.	+	.	15-115
<i>Thyone cf. villosa</i> Semper, 1868	.	+	*	.	.	+	.	43-73
Placothuriidae								
<i>Placothuria molpadioides</i> (Semper, 1868) ²⁶	.	+	.	.	.	+	.	14-57
Order DACTYLOCHIROTIDA								
Ypsilothuriidae								
<i>Staurocucumis nocturna</i> (Sluiter, 1901)	.	.	+	685-757
<i>Ypsilothuria bitentaculata</i> (Ludwig, 1893)	.	.	+	.	.	.	+	135-4000
Vaneyellidae								
<i>Mitsukuriella squamulosa</i> (Mitsukuri, 1912) ²⁷	.	.	+	65-190
Order MOLPADIIDA								
Caudinidae								
<i>Acaudina bacilla</i> Cherbonnier & Feral, 1981	.	.	‡	186-187
<i>Acaudina leucoprocta</i> (H.L. Clark, 1938)	.	+	.	.	.	+	+	0-122
<i>Acaudina molpadioides</i> (Semper, 1868)	.	+	+	.	.	+	+	0-330
<i>Acaudina suspecta</i> Cherbonnier & Feral, 1981	.	.	‡	165-287
<i>Caudina atacta</i> Pawson & Liao, 1992	.	‡	.	.	.	+	.	63-91
<i>Caudina intermedia</i> Liao & Pawson, 1993	‡	.	107
<i>Paracaudina chilensis</i> (Müller, 1850)	.	+	.	.	.	+	.	0-990
<i>Paracaudina delicata</i> Pawson & Liao, 1992	.	‡	.	.	.	+	.	10-21

25 validity of this taxon awaits re-examination of type material -see Liao & Clark, 1995: 504.

26 moved to genus *Placothuria* [Placothuriidae] by Liao, 1997: 224.

27 transferred from Phyllophoridae to Vaneyellidae - see Liao, 1997: 229.

Taxa	Distribution							Depth range m.
	1	2	3	4	5	6	7	
Molpadiidae								
<i>Molpadia changi</i> Pawson & Liao, 1992	.	+	*	.	.	+	.	35-90
<i>Molpadia guangdongensis</i> Pawson & Liao, 1992	.	+	.	.	.	✚	.	89-200
<i>Molpadia lenticulum</i> (Cherbonnier & Feral, 1981)	.	.	✚	750-925
<i>Molpadia musculus</i> Risso, 1826	.	.	+	592-2340
<i>Molpadia parvulum</i> (Cherbonnier & Feral, 1981)	.	.	✚	182-510
<i>Molpadia roretzi</i> (von Marenzeller, 1877)	.	+	*	.	.	+	+	44-620
Order APODIDA								
Synaptidae								
<i>Anapta gracilis</i> Semper, 1868	.	+	✚	.	.	+	.	1-12
<i>Euapta godeffroyi</i> (Semper, 1868)	.	+	+	.	+	+	.	0-77
<i>Oestergrenia dubia</i> Semper, 1868	.	.	*	<20
<i>Oestergrenia incerta</i> (Ludwig, 1875)	.	+	.	.	.	+	.	20-100
<i>Oestergrenia variabilis</i> Théel, 1886	.	+	17-26
<i>Opheodesoma australiensis</i> Heding, 1931	+	+	.	15-30
<i>Opheodesoma clarki</i> Heding, 1928	.	+	*	<20
<i>Opheodesoma glabra</i> (Semper, 1868)	.	.	+	.	+	.	.	0-20
<i>Opheodesoma grisea</i> (Semper, 1868)	.	+	+	.	.	+	+	0-36
<i>Opheodesoma lineata</i> Heding, 1928	✚	10-35
<i>Opheodesoma spectabilis</i> Fisher, 1907	.	+	+	<20
<i>Patinapta laevis</i> (Bedford, 1899)	+	.	.	<20
<i>Patinapta ooplax</i> (von Marenzeller, 1881)	.	.	*	.	.	+	.	<20
<i>Patinapta taiwanensis</i> Chao, Rowe & Chang, 1988	✚	.	0-7
<i>Polyplectana galathea</i> Heding, 1928 ²⁸	+	.	.	<20
<i>Polyplectana grisea</i> (Heding, 1931)	+	.	.	<20
<i>Polyplectana kefersteini</i> (Selenka, 1867)	.	.	+	.	+	+	+	0-77
<i>Polyplectana nigra</i> (Semper, 1868)	.	.	+	.	+	+	.	0-36
<i>Polyplectana samoae</i> Heding, 1931 ²⁸	.	.	+	<20
<i>Polyplectana unispicula</i> Heding, 1931 ²⁸	.	.	+	<20
<i>Polyplectana zamboangae</i> Heding, 1928 ²⁸	.	.	*	.	.	+	.	<20
<i>Protankyra asymmetrica</i> (Ludwig, 1875)	.	+	.	.	.	+	+	5-80
<i>Protankyra bidendata</i> (Woodward & Barrett, 1858)	.	+	+	.	.	+	.	0-45
<i>Protankyra magnihamula</i> Heding, 1928	.	+	.	.	.	✚	.	0-50
<i>Protankyra pseudodigitata</i> (Semper, 1868)	.	+	*	.	.	+	.	12-32
<i>Protankyra rodea</i> (Sluiter, 1888)	.	.	+	.	.	+	.	18-330
<i>Protankyra similis</i> (Semper, 1868)	.	+	*	<20
<i>Protankyra suensoni</i> Heding, 1928	.	+	+	.	.	✚	.	28-90
<i>Protankyra verrilli</i> (Théel, 1886)	.	.	*	.	+	+	.	0-14
<i>Synapta maculata</i> (Chamisso & Eysenhardt, 1821)	.	+	+	.	.	+	+	0-25
<i>Synaptula indivisa</i> (Semper, 1868)	.	.	*	<20
<i>Synaptula lactea</i> (Sluiter, 1888)	+	+	.	9-40
<i>Synaptula lamperti</i> Heding, 1928	+	+	0-35
<i>Synaptula madreporica</i> Heding, 1928	.	.	*	<20
<i>Synaptula media</i> Cherbonnier & Feral, 1984	+	.	.	8-20
<i>Synaptula recta</i> (Semper, 1868)	.	.	*	.	+	+	.	0-20
<i>Synaptula reticulata</i> (Semper, 1868)	.	+	*	.	.	+	.	9-15
<i>Synaptula virgata</i> (Sluiter, 1901)	+	.	.	18
Chiridotidae								
<i>Chiridota intermedia</i> Bedford, 1898 ²⁹	+	.	.	<20
<i>Chiridota liberata</i> Sluiter, 1887	+	.	.	<20
<i>Chiridota rigida</i> Semper, 1868	.	+	+	.	.	+	.	0-10
<i>Chiridota stuhlmanni</i> Lampert, 1896	.	+	.	.	.	+	.	0-5
<i>Myriotrochus</i> sp.	+	—

28 the identification / validity of these spp. is questionable (F.W.E.R.).

29 possible synonym of *Chiridota rigida* Semper, 1868 - see Thandar & Rowe, 1989: 154

Taxa	Distribution							Depth range m.
	1	2	3	4	5	6	7	
<i>Polycheira fusca</i> (Quoy & Gaimard, 1833)	.	+	+	.	.	+	.	<20
<i>Order ELASIPODIDA</i>								
Deimatidae								
<i>Deima validum validum</i> Théel, 1879	.	.	+	724-4820
<i>Orphnurgus bacillus</i> Cherbonnier & Feral, 1981	.	.	+	174-223
<i>Orphnurgus insignis</i> Fisher, 1907	.	.	+	309-858
<i>Orphnurgus protectus</i> Hansen, 1975	+	.	1100-1301
Laetmogonidae								
<i>Laetmogone violacea</i> Théel, 1879	.	.	+	225-1804
<i>Pannychia moseleyi</i> Théel, 1882	.	.	+	212-2598
Psychropotidae								
<i>Psychropotes longicauda</i> Théel, 1882	+	.	1100-5173