

## ECHINODERMS OF THE MONTEBELLO ISLANDS

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### Summary

The echinoderm fauna of the Montebello Islands includes species characteristic of the coastal and shelf fauna together with widespread Indo-West Pacific coral reef species. The diversity of habitats and hydrological conditions provided by the geographical complexity of the island group also contribute to the faunal richness of the islands. A total of 170 species is recorded from the present study and the Western Australian Museum collections. This total is comparable to that recorded from the Houtman Abrolhos, where the fauna is a mixture of tropical and temperate species and close to that of Ashmore Reef, which also has elements of "mainland" and "reef" species besides being closer to the central Indo-west Pacific area of greatest species richness. Ashmore Reef, with 178 species recorded, has the most speciose echinoderm fauna of any area of Western Australia. Several species found at the Montebellos are believed to be new records for Australia and a few may represent undescribed species.

### Introduction

There has been no previous study of the echinoderms of the Montebello Islands apart from a brief visit by the author in 1979 during which 26 species were recorded. During the present survey 164 species were found, including all but six of those taken in 1979, making a total of 170 species recorded for the islands.

### Methods

Samples were collected from as many habitats as possible, by SCUBA, snorkelling, low tide collecting from reefs and sand flats and by dredging where practicable, a total of 45 stations. These are listed in Table 1 and are indicated on Figure 1. Species readily identified underwater were not collected and are listed as visual records (V), specimens in the Western Australian Museum collection, not recorded in 1993, are indicated by M.

### Results and Discussion

The echinoderm fauna of the Montebello Islands is rich in species (Tables 5 and 6), compared with most other areas in Western Australia and is

numerically comparable to that of the Houtman Abrolhos (Marsh, 1994), and close to that of Ashmore Reef (Marsh *et al.*, 1993) where the species richness is highest of any area studied in Western Australia. A comparison of species numbers for the five classes of echinoderms at the Montebellos with those recorded from other coral reef areas in Western Australia is given in Table 5. The Barrow Island data is based on results of the Western Australian Museum-USNM Barrow Island Expedition (1966), collections made by Dr L. Hammond in 1974 and from surveys of the intertidal (Marsh, 1997). The Barrow Island fauna is less rich than that of the Montebellos probably because of the lack of extensive coral reefs and the less diverse habitats provided by the less complex geography of the island. Most of the species are in common with the Montebellos. Data from the Rowley Shoals and Scott Reef is from Marsh (1986) while the Ningaloo figures are from Marsh (unpublished data).

For comparison, the Royal Society-Universities of Queensland Expedition to the Northern Region of the Great Barrier Reef, Queensland, which sampled coral reefs, sand flats, and dredged to a depth of *c.* 60 metres found only 140 species of echinoderms (Gibbs *et al.*, 1976). The geographical complexity of the Montebellos Islands and reefs and the range of environmental conditions from high energy coral reefs, channels between the islands subjected to strong tidal currents to totally sheltered conditions in enclosed lagoons provides a diversity of habitats and substrate types unmatched in any other island group in Western Australia. The fauna is further enhanced by the geographical position of the islands giving it elements of "mainland" and "reef" species.

The Houtman Abrolhos islands are somewhat comparable in habitat complexity to the Montebellos but lack the strong tidal currents between islands. The Abrolhos fauna, comparable in species numbers with that of the Montebellos, is enhanced by the overlap of tropical and temperate species in its marginal position at the southern limit of coral reefs.

The Montebellos echinoderm fauna is composed entirely of tropical species although some of these range into temperate waters. More extensive sampling of the intertidal coral reef platforms off

Table 5 A comparison of the number of echinoderm species recorded from the Montebello Islands with those from other coral reef areas in Western Australia.

Taxa	Montebello Islands	Barrow Island	Ashmore Reef	Rowley Shoals/ Scott Reef	Ningaloo Reef	Houtman Abrolhos Islands
Crinoidea	26	12	38	17	16	28
Asteroidea	22	20	28	23	22	45
Ophiuroidea	54	24	42	42	26	40
Echinoidea	28	16	23	22	18	26
Holothuroidea	40	31	47	28	22	33
Total	170	103	178	132	104	172

the western side of the islands may reveal more coral reef species of all echinoderm classes.

Comments on the five echinoderm classes follow.

**Crinoidea.** Feather stars were common in most habitats with species of *Comanthus*, *Comatula* and *Stephanometra* predominating on reef flats, the robust black *Tropiometra afra* on high energy outer reef slopes and the large multi-armed *Comanthina* spp. on more sheltered outer reef areas and inter island channels.

Small colobometrids and antedonids are mostly commensal on sponges, algae and gorgonians.

**Asteroidea.** Sand substrates, both intertidal and deeper are characterised by *Luidia*, *Astropecten* and *Archaster*, all of which bury themselves under the surface. The large oreasterid, *Protoreaster nodulosus* is found on slightly deeper sandy areas while the goniasterid *Stellaster* favours muddy sand.

The blue *Linckia laevigata*, common on most tropical reefs, was only seen at three sites. This species is common on Ningaloo Reef but is not found at Dampier, apparently favouring clear water reefs. *Nardoa galathea* was the most commonly seen reef species, also found on sand among reefs. *Tamaria tumescens* and *Thromidia catalai*, both regarded as continental shelf species, were found outside the reefs.

An unidentified species of *Asterina*, probably undescribed, was found among mangroves in one of the inner lagoons. The coral predator, *Acanthaster planci* is not common at the Montebellos and was seen at only five of the 45 sites.

**Ophiuroidea.** Relatively few coral reef species were recorded. This may be due in part to lack of sampling of the intertidal outer reef flats and reef crests which is the preferred habitat of a number of species. The rich brittle-star fauna includes many sand dwelling species and species commensal with other echinoderms, gorgonians, sponges and algae. A number of species remain to be determined and some may be undescribed. A small ophiurid, *Dictenophiura stellata*, was common at four of the nine dredge sites on clean sand substrates.

**Echinoidea.** Common coral reef species such as *Echinometra mathaei*, *Tripneustes gratilla*, *Diadema*

spp. and *Echinothrix* spp. were not as common on the Montebello reefs as on other coral reefs in Western Australia. A rich fauna of sand dwelling species (sand dollars and heart urchins) was found, including a rare species, *Pseudomaretia interrupta*, endemic to north-western Australia.

**Holothuroidea.** Typical coral reef species such as *Actinopyga* and *Bohadschia* spp. were not common but *Holothuria atra* and *H. cinerascens* were found at most sites. No *Holothuria* (*Microthele*) species (teat fish) or *Thelenota* spp. were found. These are favoured commercial species on northern reefs.

Several species may represent new records for Australia, but their identity remains to be confirmed.

Overall the echinoderm fauna of the Montebello Islands includes elements of the endemic north-western Australian coastal and shelf fauna together with some of the offshore reef species, widespread through the Indo-West Pacific.

### Management and Conservation

The Montebello Islands and reefs are periodically subjected to severe environmental perturbations from cyclones, while anecdotal evidence suggests there has also been severe predation of corals by the crown-of-thorns starfish (*Acanthaster planci*) in the past, probably early in the 1970s.

All five of the sites where *A. planci* was found in 1993 are in the southern part of the Montebellos and four of these, where most of the individuals were seen, were on the chain of reefs east of the south end of Hermite Island (stations 24, 30, 31 and 35). Numbers observed on one dive by one diver ranged from four (station 30) to 16 (station 31). While these numbers are fairly low there is potential for a population explosion on the southern reefs.

Areas less likely to be disturbed by natural events are the lagoons and channels between the islands. These contain the most interesting faunal elements, including many species commensal with sponges and gorgonians. It is recommended that these areas be protected from trawling or any other activity that may disturb the habitat.

## REFERENCES

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- Marsh, L.M., Vail, L.L., Hoggett, A.K. & Rowe, F.W.E. (1993). Echinoderms of Ashmore Reef and Cartier Island. In: Berry, P.F. (ed.). *Marine Faunal Surveys of Ashmore Reef and Cartier Island north-western Australia. Records of the Western Australian Museum, Supplement* 44: 53-65.

Table 6 List of echinoderms collected at the Montebello Islands.

Species	Station Number
<b>CRINOIDEA</b>	
<b>COMASTERIDAE</b>	
<i>Comanthina nobilis</i> (Carpenter, 1884)	32a
<i>Comanthina variabilis</i> (Bell, 1882)	2,9,10,23
<i>Comanthina</i> sp.	6
<i>Comanthus gisleni</i> Rowe <i>et al.</i> , 1986	3,23,27,31,32a
<i>Comanthus parvicirrus</i> (Müller, 1841)	1,6,9,24,27,30,33,35V
<i>Comanthus wahlbergi</i> (Müller, 1843)	4b,9,23,27
<i>Clarkcomanthus littoralis</i> (Carpenter, 1888)	1,3,6,10
<i>Comatella maculata</i> (Carpenter, 1888)	1,4b,20,23
<i>Comatella stelligera</i> (Carpenter, 1880)	20
<i>Comatula purpurea</i> (Müller, 1843)	4b,9,20,33
<b>HIMEROMETRIDAE</b>	
<i>Himerometra robustipinna</i> (Carpenter, 1881)	32a
<i>Himerometra magnipinna</i> A.H. Clark, 1908	28a
<b>MARIAMETRIDAE</b>	
<i>Lamprometra palmata</i> (Müller, 1841)	12,14c,22,28a
<i>Lamprometra klunzingeri</i> (Hartlaub, 1890)	12
<i>Stephanometra indica</i> (Smith, 1876)	1,2,6,20
<i>Stephanometra spicata</i> (Carpenter, 1881)	1,2,6,7,20
<b>COLOBOMETRIDAE</b>	
<i>Oligometra carpenteri</i> (Bell, 1884)	9,33
<i>Oligometrides adeonae</i> (Lamarck, 1816)	5,21,28a,32b,36a
<i>Petasometra clarae</i> (Hartlaub, 1890)	32a,33,35
<b>TROPIOMETRIDAE</b>	
<i>Tropiometra afra</i> (Hartlaub, 1890)	3,9,23V,27
<b>ANTEDONIDAE</b>	
<i>Dorometra nana</i> (Hartlaub, 1890)	27,30
<i>Dorometra parvicirra</i> (Carpenter, 1888)	32a
<i>Dorometra mauritiana</i> (A.H. Clark, 1909)	30
<i>Dorometra cf. aegyptica</i> (A.H. Clark, 1911)	32a
<i>Antedon</i> sp.	M
<b>ASTEROIDEA</b>	
<b>LUIDIIDAE</b>	
<i>Luidia maculata</i> Müller and Troschel, 1842	5,14c,21,32bV
<b>ASTROPECTINIDAE</b>	
<i>Astropecten vappa</i> Müller and Troschel, 1843	14a,14c,22,32b,36a,36bV
<b>ARCHASTERIDAE</b>	
<i>Archaster angulatus</i> Müller and Troschel, 1842	12,14cV,15a,15b,22V,32bV,36a

Table 6 (cont.)

Species	Station Number
<b>GONIASTERIDAE</b>	
<i>Stellaster equestris</i> (Retzius, 1805)	8,32b
<i>Goniodiscaster</i> sp.	M
<b>OREASTERIDAE</b>	
<i>Culcita schmideliana</i> (Retzius, 1805)	2V,6V,9V,20,29V,31V,33V,37V
<i>Gymnanthenea globigera</i> (Döderlein, 1915)	2V,13,27,29V
<i>Protoreaster nodulosus</i> (Perrier, 1876)	5,6V,17V
<b>OPHIDIASTERIDAE</b>	
<i>Fromia indica</i> (Perrier, 1869)	1,6V,9,20,24V,27V,30V,31V
<i>Hacelia helicosticha</i> (Sladen, 1889)	M
<i>Linckia guildingi</i> Gray, 1840	2V,6V,25V,29V
<i>Linckia laevigata</i> (Linnaeus, 1758)	19V,20V,23
<i>Linckia multifora</i> (Lamarck, 1816)	1,2V,4aV,4bV,6V,9,27V,30V
<i>Nardoa galathea</i> (Lütken, 1864)	1,2V,3V,4aV,4bV,6V,9,10V,19V,20V,24,25V,29V,35V
<i>Ophidiaster granifer</i> (Lütken, 1872)	20
<i>Tamaria tumescens</i> (Koehler, 1910)	9,23
<b>MITHRODIIDAE</b>	
<i>Thromidia catalai</i> Pope and Rowe, 1977	9
<b>ASTERINIDAE</b>	
<i>Asterina</i> n. sp.	13
<i>Nepanthia belcheri</i> (Perrier, 1875)	32b
<b>ACANTHASTERIDAE</b>	
<i>Acanthaster planci</i> (Linnaeus, 1758)	24V,30V,31V,35V
<b>ECHINASTERIDAE</b>	
<i>Echinaster luzonicus</i> (Gray, 1840)	1,2V,4aV,4bV,6V,7V,9V,19V,20V,30V,31V
<i>Echinaster varicolor</i> H.L. Clark, 1938	2V,10V,30V,33,35V
<b>OPHIUROIDEA</b>	
<b>OPHIOMYXIDAE</b>	
<i>Ophiomyxa australis</i> Lütken, 1869	2,27
<b>AMPHIURIDAE</b>	
<i>Amphioplus</i> ( <i>Unioplus</i> ) cf. <i>repositus</i> Koehler, 1905	16
<i>Amphioplus</i> ( <i>Unioplus</i> ) sp.	22
<i>Amphipholis squamata</i> (Delle Chiaje, 1828)	14b,17,24
cf. <i>Amphipholis</i> sp.	22
<i>Amphiura leucaspis</i> H.L. Clark, 1938	1,8,12
<i>Amphiura septemspinosa</i> H.L. Clark, 1915	27
<i>Amphiura</i> ( <i>Fellaria</i> ) <i>octacantha</i> H.L. Clark, 1915	8,9,12,15a,15b
<i>Amphiura</i> sp.	8,11,16,22
<i>Ophiocentrus</i> sp.	11
<b>OPHIACTIDAE</b>	
<i>Ophiactis maculosa</i> Von Martens, 1870	11
<i>Ophiactis savignyi</i> (Müller and Troschel, 1842)	1,2,4b,6,7,9,11,16,17,22,24,27,35
<i>Ophiactis</i> sp. 1	16
<i>Ophiactis</i> sp. 2	1,9,11,22,28a
<i>Ophiactis</i> sp. 3	8
<i>Ophiactis</i> sp. 4	17
<b>OPHIOTRICHIDAE</b>	
<i>Gymnolophus obscura</i> (Ljungman, 1867)	23,27,32a
<i>Macrophiolithrix caenosa</i> Hoggett, 1991	2,4b,9,20,25,27
<i>Macrophiolithrix callizona</i> H.L. Clark, 1938	4b
<i>Macrophiolithrix megapoma</i> H.L. Clark, 1938	4b,7,9,20
<i>Macrophiolithrix paucispina</i> Hoggett, 1991	13,14a,14c,29
<i>Macrophiolithrix</i> cf. <i>variabilis</i> (Duncan, 1887)	25
<i>Ophiolithrix ciliaris</i> (Lamarck, 1816)	2,4b,6,7,9,10,12,14a,17,24,26,30,32a,33
<i>Ophiolithrix exigua</i> Lyman, 1874	1,2,7,8,9,11,17,22,24,27,28a
<i>Ophiolithrix</i> cf. <i>echinotecta</i> Balinsky, 1957	1,9,11,17

Table 6 (cont.)

Species	Station Number
<i>Ophiothrix miles</i> Koehler, 1905	1
<i>Ophiothrix</i> sp. aff. <i>miles</i> Koehler, 1905	1,7,9,14a,17,26,32a,33
<i>Ophiothrix</i> spp.	1,9,11,14a,17,24
<i>Ophiothrix</i> ( <i>Keystonea</i> ) <i>martensi</i> Lyman, 1874	4b,8,9,10,23,24,25,28a,29,30,33
<i>Ophiothrix</i> ( <i>Keystonea</i> ) <i>smaragdina</i> Studer, 1883	1,7,8,9,10,28
<i>Ophiothrix</i> ( <i>Placophiothrix</i> ) <i>lineocaerulea</i> H.L. Clark, 1928	9,22,33
<i>Ophiothrix</i> ( <i>Placophiothrix</i> ) <i>melanosticta</i> (Grube, 1868)	8,9,28a
<i>Ophiogymna elegans</i> Ljungman, 1867	30
<i>Ophiothela danae</i> Verrill, 1869	1,6,7,17,28a,32a,33
<i>Ophiomaza cacaotica</i> Lyman, 1871	6,10,23,32a
<b>OPHIOCOMIDAE</b>	
<i>Ophiocoma dentata</i> Müller and Troschel, 1842	2,3,4b,10,20,27,28b,29
<i>Ophiocoma pusilla</i> (Brock, 1888)	27
<i>Ophiomastix mixta</i> Lütken, 1869	2,4b,20,24,27,29,30,31,35
<i>Ophiomastix variabilis</i> Koehler, 1905	2
<b>OPHIONEREIDIDAE</b>	
<i>Ophionereis dubia</i> (Müller and Troschel, 1842)	5,6,14c,17,29,32b
<i>Ophionereis semoni</i> (Döderlein, 1896)	11,16,22,29
<i>Ophionereis intermedia</i> A.M. Clark, 1953	4b,8,16,20,25
<i>Ophionereis</i> sp.	4b,10
<b>OPHIODERMATIDAE</b>	
<i>Ophiarachna affinis</i> Lütken, 1869	1,2
<i>Ophiarachnella gorgonia</i> (Müller and Troschel, 1842)	2,4b,6,9,20,23,27,29
<i>Ophiarachnella infernalis</i> (Müller and Troschel, 1842)	6
<i>Ophiochasma stellatum</i> (Ljungman, 1867)	5,8,18,32b
<i>Ophiopeza spinosa</i> (Ljungman, 1867)	20
<i>Ophioconis cincta</i> Brock, 1888	9,33,35
<i>Cryptopelta granulifera</i> H.L. Clark, 1909	20
<b>OPHIURIDAE</b>	
<i>Dictenophiura stellata</i> (Studer, 1882)	5,8,12,18,22,28a
<i>Ophiolepis unicolor</i> H.L. Clark, 1938	4b,9
<i>Ophioplocus imbricatus</i> (Müller and Troschel, 1842)	2,3,10,14a,25,29
<i>Ophiuroid</i> family indet.	22,32a
<b>ECHINOIDEA</b>	
<b>CIDARIDAE</b>	
<i>Phyllacanthus longispinus</i> (Mortensen, 1918)	1V,6V,17V,24V,27,30,31V,35V,37V
<i>Prionocidaris baculosa</i> (Lamarck, 1816)	9
<b>DIADEMATIDAE</b>	
<i>Diadema savignyi</i> Michelin, 1845	1V,2V,6V,19V,35V,37V
<i>Diadema setosum</i> (Leske, 1778)	1V,2V,19V,24V,29V,30V,31V,35V
<i>Echinothrix calamaris</i> (Pallas, 1774)	1V,20V,27
<b>ECHINOTHURIIDAE</b>	
<i>Paraphormosoma</i> sp.	M
<b>TEMNOPLEURIDAE</b>	
<i>Salmacis sphaeroides</i> (Linnaeus, 1758)	M
<i>Temnotrema bothryoides</i> L. Agassiz, 1846	8,12,18
<b>TOXOPNEUSTIDAE</b>	
<i>Nudechinus darnleyensis</i> (Tenison Woods 1878)	10,18,21,22,36a
<i>Nudechinus scotiopremnus</i> H.L. Clark, 1912	4b,8,12,14b,14d,15b,16,18
<i>Tripneustes gratilla</i> (Linnaeus, 1758)	1V,2V,3V,5V,20V,23V,25V,29V,30V
<b>ECHINOMETRIDAE</b>	
<i>Echinometra mathaei</i> (de Blainville, 1825)	20,25V,29V
<i>Echinostrephus molaris</i> (de Blainville, 1825)	1V,2V,24V,25V,29V,35V
<i>Heterocentrotus mammillatus</i> (Linnaeus, 1758)	1
<b>ECHINONEIDAE</b>	
<i>Echinoneus cyclostomus</i> Leske, 1778	4b,17,25

Table 6 (cont.)

Species	Station Number
<b>CLYPEASTERIDAE</b>	
<i>Clypeaster telurus</i> H.L. Clark, 1914	36a
<b>ARACHNOIDIDAE</b>	
<i>Arachnoides tenuis</i> H.L. Clark, 1938	21
<b>FIBULARIIDAE</b>	
<i>Echinocyamus planissimus</i> H.L. Clark, 1938	9,12,15b,36a
<i>Fibularia</i> sp.	M
<b>LAGANIDAE</b>	
<i>Peronella lesueurii</i> (Agassiz, 1841)	32b
<i>Peronella orbicularis</i> (Leske, 1778)	5,8,10,12,13,14a,14b,14c,15a,15b,17,18,19,22,28a,32b,36a
<i>Peronella tuberculata</i> Mortensen, 1918	5,8,14a,14b,14c,15,18,22,28a,32b,36a,36b,37
<b>ASTRICLYPEIDAE</b>	
<i>Echinodiscus auritus</i> Leske, 1778	22
<b>ECHINOLAMPADIDAE</b>	
<i>Echinolampas ovata</i> (Leske, 1778)	22,36a
<b>SPATANGIDAE</b>	
<i>Pseudomarettia</i> cf. <i>interrupta</i> (Studer, 1880)	23
<b>LOVENIIDAE</b>	
<i>Breyntia desorii</i> Gray, 1851	5,8,12,15a,15b,18,22,28a, 32b,36a
<i>Lovenia elongata</i> (Gray, 1845)	22,36a
<b>BRISSIDAE</b>	
<i>Rhynobrissus hemiasteroides</i> A. Agassiz, 1879	28a
<b>HOLOTHUROIDEA</b>	
<b>HOLOTHURIIDAE</b>	
<i>Actinopyga echinites</i> (Jaeger, 1833)	2V,6V,10V,14dV,20V,25V,29V,32bV
<i>Actinopyga mauritiana</i> (Quoy and Gaimard, 1833)	20
<i>Actinopyga</i> sp.	2
<i>Bohadschia argus</i> Jaeger, 1833	19,29V
<i>Bohadschia marmorata</i> Jaeger, 1833	28a
<i>Labidodemas semperianum</i> Selenka, 1867	9,27
<i>Holothuria (Halodeima) atra</i> Jaeger, 1833	2,3,4bV,5V,6V,9,14dV,17V,19V,20V,23V 25V, 29V,30V,33V,35V,37V
<i>Holothuria (Halodeima) edulis</i> Lesson, 1830	1V,2,4aV,6V,17V,19V,29V,30V,33V,35V,37V
<i>Holothuria (Lessonothuria) lineata</i> Ludwig, 1875	13,14a,14b,14d
<i>Holothuria (Mertensiothuria) leucospilota</i> (Brandt, 1835)	6V,9V,14dV,29V
<i>Holothuria (Mertensiothuria)</i> sp.	19
<i>Holothuria (Metriatyla) ocellata</i> Jaeger, 1833	12
<i>Holothuria (Metriatyla) scabra</i> Jaeger, 1833	1,6,10
<i>Holothuria (Platyperona) difficilis</i> Semper, 1868	6,20
<i>Holothuria (Semperothuria) cinerascens</i> (Brandt, 1835)	4a,4bV,6,14b
<i>Holothuria (Stauropora) fuscocinerea</i> Jaeger, 1833	7
cf. <i>Holothuria (Stauropora) imitans</i> Ludwig, 1875	6,20
<i>Holothuria (Thymiosycia) arenicola</i> Semper, 1868	4a
<i>Holothuria (Thymiosycia) hilla</i> Lesson, 1830	1V,2V,6V,27V,29V,30V
<i>Holothuria (Thymiosycia) impatiens</i> (Forsk., 1775)	2,4b,6,14a,14b,14d,20,33,36b
<i>Holothuria (Thymiosycia)</i> sp.	2,20,30
<i>Holothuria (Theelothuria) michaelsoni</i> Erwe, 1913	8,15b,36aV
<b>STICHOPODIDAE</b>	
<i>Stichopus chloronotus</i> Brandt, 1835	2,4bV,5V,6V,10V,20V,25V,29V
<i>Stichopus horrens</i> Selenka, 1867	1,2,4a,7
<i>Stichopus variegatus</i> Semper, 1868	1V,2V,4aV,6V,17,19V,33V
<i>Stichopus</i> sp.	2,37
<b>CUCUMARIIDAE</b>	
<i>Cercodemas anceps</i> (Selenka, 1867)	28a
<i>Plesiocolochirus</i> cf. <i>australis</i> (Ludwig, 1875)	16

Table 6 (cont.)

Species	Station Number
<i>Colochirus crassus</i> Ekman, 1918	22
<i>Colochirus</i> sp.	33
<i>Pseudocolochirus violaceus</i> (Théel, 1886)	32a
<i>Staurothyone distincta</i> H.L. Clark, 1938	2,29
<b>PHYLLOPHORIDAE</b>	
<i>Stolus buccalis</i> (Stimpson, 1855)	33
<b>SYNAPTIDAE</b>	
<i>Protankyra</i> sp.	12
<i>Synapta maculata</i> (Chamisso and Eysenhardt, 1821)	19
<i>Synaptula</i> Sp. 1	30
<i>Synaptula</i> Sp. 2	28a, 30
<i>Synaptula</i> Sp. 3	14b,14c
<b>SCLERODACTYLIDAE</b>	
<i>Afrocucumis africana</i> (Semper, 1868)	29
<i>Cladolabes aciculus</i> (Semper, 1868)	25
cf. <i>Ohshimella ehrenbergi</i> (Selenka, 1867)	6