

9. MARINE FAUNA OF THE COOK ISLANDS: CHECK-LIST OF
SPECIES COLLECTED DURING THE COOK
BICENTENARY EXPEDITION IN 1969

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INTRODUCTION

As part of the Cook Bicentenary Expedition in 1969, various aspects of the marine communities of the reef and lagoon environments on Aitutaki and Rarotonga in the southern Cook Islands were investigated. Descriptions of these surveys, carried out between 21 August and 26 September, and the study areas are given in Gibbs, Stoddart & Vevers (1971), Gibbs (1975) and Stoddart (1975a, 1975b). Some of the material resulting from these studies has already been described (see Gibbs, 1971; Pillai & Stoddart, In press; Stoddart & Pillai, 1973) but since it is doubtful whether all of the Expedition material will be utilized and/or recorded in future publications, it was considered advisable to bring together all of the species records in the form of a preliminary check-list of the marine fauna which would serve as a basis for further faunistic work in the Cook Islands.

This check-list of the marine fauna is based solely on the collections made on Aitutaki and Rarotonga during the 1969 Expedition: no attempt has been made to include species recorded previously from the Cook Islands although here attention may be drawn to the papers of Banner & Banner (1967), McKnight (1972) and Devaney (1973) who have dealt with the alpheid shrimps and echinoderms, and to the lists of corals, sipunculids, molluscs, crabs, echinoderms and fishes from Manihiki Atoll (in Bullivant and McCann, 1974). This check-list is, to a certain extent, selective in that because of the limited time available efforts were directed towards obtaining comprehensive collections of certain groups or communities and, as a result, the scleractinians and echinoderms as well as the macrofauna inhabiting the lagoon deposits on Aitutaki are well represented. However, apart from the corals and echinoderms, the reef fauna is known only from general collections. Consequently, the molluscs for example, with 92 species recorded, are probably poorly represented, considering that about 260 species are known from French Oceania (see Ranson, 1967) and that the atoll of Raroia (Tuamotus) alone may support over 600 species (Morrison, 1954). However the Expedition collection of molluscs is supplemented by the Morgan collection of Cook Islands mollusc shells now housed by the Cook Islands Library and Museum at Rarotonga (see Chapter 10 of this Bulletin). This valuable collection, containing over 200 species, deserves to be documented more fully by a group expert.

We wish to thank the Royal Society and the Royal Society of New Zealand for the opportunity to take part in the Cook Bicentenary Expedition. This check-list could not have been compiled without the kind assistance of many group experts: for identifying material in the Expedition collections we are most grateful to C.S.G. Pillai (Scleractinia), S.J. Edmonds (Sipuncula), C.C. Emig (Phoronopsis), J.C. Yaldwyn (most Crustacea, Xanthidae assisted by J.S. Garth), R.S.K. Barnes (Macrophthalmus), R.W. Ingle (Crustacea deposited in British Museum (Nat. Hist.)), W.O. Cernohorsky (most Mollusca), J.D. Taylor (Mollusca deposited in Brit. Mus. (Nat. Hist.)), A.M. Clark (Asterozoa, Ophiurozoa, Echinozoa), F.W.E. Rowe (Holothurozoa), C. Burdon-Jones (Enteropneusta), J.H. Wickstead (Asymmetron) and G. Palmer (Teleostei).

The Expedition collections are composed of nearly 300 species comprising the following groups:

Scleractinia	57	Asterozoa	3
Polychaeta	38	Ophiurozoa	9
Oligochaeta	1	Echinozoa	2
Sipuncula	4	Holothurozoa	14
Phoronida	1	Hemichordata	2
Stomatopoda	3	Cephalochordata	1
Decapoda	55+	Teleostei	14
Gastropoda	71		
Pelecypoda	20	Total	295+
Cephalopoda	1		

This material has been deposited in the British Museum (Natural History) and the National Museum, Wellington. Most specimens of the Crustacea and Mollusca are placed in the National Museum, the remainder in the British Museum (Nat. Hist.): in the check-lists of these two groups, species deposited in the British Museum (Nat. Hist.) collections are marked * and where both museums have specimens the species is marked +. The collections of all other groups are deposited in the British Museum (Nat. Hist.).

In the check-list, for each species the stations at which specimens were taken are given. The positions of the stations on Aitutaki are shown in Fig. 37 and on Rarotonga in Fig. 38. The main habitats investigated at these stations are as follows

<u>Aitutaki:</u>	Stations	1 - 10	: intertidal lagoon sand flat
		11 - 12	: outer reef platform
		13 - 15	: outer reef-chiefly coral heads
		16	: beach rock
		L1 - L9	: medium to coarse sand, 1-2m depth (dredge)
		L10 - L20	: silty sand, 1-6m depth (dredge)

Rarotonga: Stations R1 + R3 : outer reef platform
R2 + R4 : intertidal sand flat

In addition to the above, corals were collected at 10 localities on Aitutaki (Fig. 1, Areas 1 - X) and at Station R3 on Rarotonga.

Check-list of species

Coelenterata

Scleractinia

The following coral species were collected in shallow water (0-3m depth):

Astrocoeniidae

Stylocoeniella armata (Ehrenberg) X

Thamnasteriidae

Psammocora contigua (Esper) R3

Psammocora (Plesioseris) haimeana I II
Milne-Edwards & Haime

Pocilloporidae

Pocillopora brevicornis Lam. I

Pocillopora damicornis (L.) II IV V R3

Pocillopora ligulata Dana II III

Pocillopora meandrina Dana var. I IV VII R3

nobilis Verrill

Pocillopora verrucosa (Ellis & Solander) IV

Acroporidae

Acropora corymbosa (Lam.) R3

Acropora diversa (Brook) R3

Acropora formosa (Dana) V

Acropora humilis (Dana) R3

Acropora hyacinthus (Dana) VI

Acropora otteri Crossland II

Acropora paniculata Verrill II

Acropora rosaria (Dana) II V

Acropora rotumana (Gardiner) I

Acropora squarrosa (Ehrenberg) V

Acropora surculosa (Dana) I R3

Acropora variabilis Klunzinger II

Astreopora listeri Bernard I III

Montipora ehrenbergii Verrill II IV

Montipora elschneri Vaughan R3

Montipora gracilis Klunzinger II

Montipora spumosa (Lam.) IV

Montipora venosa (Ehrenberg) III IV

Montipora sp. (?nov.) II

Agariciidae

Pavona varians Verrill

Fungiidae

Fungia (Pleuractis) paumotensis X
 Stutchbury
Fungia (Pleuractis) scutaria Lam. VI X
Fungia (Verrillofungia) concinna II III VI VIII X
 Verrill
Herpolitha limax (Esper) VI

Poritidae

Porites lutea Milne-Edwards & Haime I II III IV VII R3

Faviidae

Cyphastrea chalcidicum (Forskal) R3
Cyphastrea serailia (Forskal) VI
Echinopora horrida Dana VI
Favia favus (Forskal) I VI VIII
Favia pallida (Dana) VIII R3
Favia stelligera (Dana) II VI VII X
Favites abdita (Ellis & Solander) IX
Favites acuticollis (Ortmann) I
Favites flexuosa (Dana) VIII
Goniastrea benhami Vaughan
Goniastrea pectinata (Ehrenberg) III IV X
Hydnophora exesa (Pallas) VII VIII
Hydnophora microconos (Lam.) I II III IV R3
Leptastrea purpurea (Dana) R3
Leptastrea transversa Klunzinger III R3
Leptoria phrygia (Ellis & Solander) I II III IV R3
Platygyra lamellina Ehrenberg III IV VI R3
Plesiastrea lilli Wells X
Plesiastrea versipora (Lam.) I IV VIII IX R3

Oculinidae

Galaxea clavus (Dana) IV
Galaxea fascicularis (L.) II IV

Mussidae

Acanthastrea echinata (Dana) I VI R3
Lobophyllia corymbosa (Forskal) I III IV VI R3

Dendrophylliidae

Turbinaria sp. cf. veluta Bernard R3

Annelida

Polychaeta

Aphroditidae

Gastrolepidia clavigera Schmarda 12 R1
Hololepidella nigropunctata (Horst) 12 R1

Palmyridae									
<u>Paleanotus debilis</u> (Grube)	10								
Amphinomidae									
<u>Eurythoë complanata</u> (Pallas)	12	L5	R1						
Phyllodocidae									
<u>Phyllodoce pruvoti</u> Fauvel	R1								
<u>Phyllodoce (Anaitides) madeirensis</u> Langerhans	12								
Hesionidae									
<u>Gyptis capensis</u> (Day)	10	L2	L4	L16					
<u>Hesione splendida</u> Savigny	R1	R3							
<u>Leocrates chinensis</u> Kinberg	R1								
Syllidae									
<u>Typosyllis regulata</u> Imajima	L2	L5	L20	R3					
Nereidae									
<u>Ceratonereis vaipekae</u> Gibbs	6	8							
<u>Perinereis cultrifera</u> (Grube)	11	R3							
<u>Perinereis jascooki</u> Gibbs	R3								
<u>Perinereis nigropunctata</u> (Horst)	R3								
<u>Pseudonereis variegata</u> (Grube)	R3								
Glyceridae									
<u>Glycera lancadivae</u> Schmarda	1	2	3	5	9	11	L2		
	L3	L4	L6	L8	L10	L11			
	L12	L13	L14	L15	L16				
	L17	L18	L19	L20	R3				
	R4								
Eunicidae									
<u>Marphysa macintoshi</u> Crossland	1	3	5	7	8				
<u>Nematonereis unicornis</u> (Grube)	10	L1	L2	L3	L5	L19			
	L20								
Spionidae									
<u>Aonides oxycephala</u> (Sars)	L2	L5	L7	L17					
<u>Malacoceros indicus</u> (Fauvel)	1	2	3	4	5	6	7	8	
	9	L15	L16	L17	L18				
	R2	R4							
<u>Prionospio malmgreni</u> Claparède	L6	L8	L16	L18					
<u>Scolelepis (Scolelepis) aitutakii</u> Gibbs	10	L16	L19						
<u>Scolelepis (Scolelepis) squamata</u> <u>saipanensis</u> (Hartman)	1	2	4	5					
<u>Spio filicornis</u> (Muller)	4								
Trochochaetidae									
<u>Poecilochaetus tropicus</u> Okuda	L16	L19							

Chaetopteridae

<u>Mesochaetopterus sagittarius</u> (Claparède)	1	5	9	L2	L6	R1	R4
<u>Phyllochaetopterus brevitentaculata</u> Hartmann-Schröder	5	10	L1	L2	L3	L5	L6
<u>Phyllochaetopterus elioti</u> Crossland	5	9	L1	L5			
<u>Phyllochaetopterus verrilli</u> Treadwell	10	L1	L2	L5	L6	L11	L19
<u>Spiochaetopterus costarum costarum</u> (Claparède)	3	5	9	L10	L14	L16	R4

Opheliidae

<u>Armandia melanura</u> Gravier	1	2	3	4	5		
<u>Polyopthalmus pictus</u> (Dujardin)	L11	L18					

Capitellidae

<u>Dasybranchus caducus</u> (Grube)	1	3	4	5	9	10	L13
	L15	L16	L18	R2	R4		

Oweniidae

<u>Myriochele haplosoma</u> Gibbs	L18	L20					
<u>Myriochele</u> sp.	L18						

Sabellidae

<u>Branchiomma cingulata</u> (Grube)	L2						
<u>Branchiomma picta</u> (McIntosh)	L11	L19					
<u>Sabellastarte sanctijosephi</u> (Gravier)	R1						

Oligochaeta

Megascolecidae

<u>Pontodrilus matsushimensis</u> Iizuka	5	6					
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Sipuncula

Sipunculidae

<u>Siphonosoma</u> (<u>Damosiphon</u>) <u>cumanense</u> (Keferstein)	5	11	R3				
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Aspidosiphonidae

<u>Aspidosiphon elegans</u> (Chamisso & Eysenhardt)	11						
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Phascolosomatidae

<u>Phascolosoma</u> (<u>Antillesoma</u>) <u>asser</u> (Selenka & de Man)	12						
<u>Phascolosoma</u> (<u>Phascolosoma</u>) <u>albolineatum</u> Baird	R3						

Phoronida

<u>Phoronopsis harmeri</u> Pixell	9	L2	L3	L18	L20		
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Crustacea

Stomatopoda

* <u>Gonodactylus chiragra</u> (Fabricius)	14		
<u>Lysiosquilla maculata</u> (Fabricius)	9		
<u>Heterosquilla</u> sp. (small)	9		

Decapoda

Caridea

Hippolytidae

* <u>Thor</u> sp.	14		
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Alpheidae

<u>Alpheus crassimanus</u> Heller	5		
<u>Alpheus pacificus</u> Dana	5		
+ <u>Alpheus</u> sp(p).	13	14	R3
* <u>Arete</u> sp.	14		
<u>Athanas djiboutensis</u> Coutiere	5		

Palaemonidae

* <u>Coralliocaris</u> sp.	14		
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Gnathophyllidae

* <u>Gnathophyllum</u> sp.	14		
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Thalassinidea

Callianideidae

<u>Callianidea typa</u> H. Milne Edwards	R3		
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Callianassidae

<u>Callianassa</u> (<u>Callichirus</u>) sp. near	5		
<u>C. placida</u> de Man			

Paguridea

Coenobitidae

<u>Coenobita perlata</u> H. Milne Edwards	10	16	
<u>Coenobita rugosa</u> H. Milne Edwards	10		

Paguridae

<u>Aniculus aniculus</u> (Fabricius)	10		
<u>Calcinus elegans</u> (H. Milne Edwards)	10	12	
<u>Calcinus herbstii</u> de Man	16		
<u>Calcinus latens</u> (Randall)	5		
<u>Clibanarius humilis</u> (Dana)	5		
<u>Dardanus deformis</u> (H. Milne Edwards)	10		
<u>Dardanus scutellatus</u> (H. Milne Edwards)	16		

+Pagurid spp.	12	13	14
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Galatheidea

Galatheidae							
*Galatheid sp(p).		13	14				
Porcellanidae							
<u>Petrolisthes lamarkii</u> (Leach)		R3					
	Oxystomata						
Calappidae							
<u>Calappa hepatica</u> (L.)		5	9				
	Oxyrhyncha						
Majidae							
*Majid sp.		13	14				
	Brachyrhyncha						
Portunidae							
<u>Scylla serrata</u> (Forsk ⁹¹)					northern lagoon		
<u>Thalamita admete</u> (Herbst)		5					
<u>Thalamita crenata</u> (H. Milne Edwards)		5	6	9			
<u>Thalamita edwardsi</u> Borradaile		R3					
* <u>Thalamita</u> sp.		13					
Atelecyclidae							
<u>Kraussia rugulosa</u> (Krauss)		R3					
Xanthidae							
<u>Chlorodiella cytherea</u> (Dana)		R3					
<u>Eriphia sebana</u> (Shaw & Nodder)		10					
<u>Leptodius gracilis</u> (Dana)		11	R3				
<u>Leptodius leptodon</u> Forest & Guinot		11	R3				
<u>Leptodius sanguineus</u> (H. Milne Edwards)		11	R3				
<u>Liomera bella</u> (Dana)		R3					
<u>Liomera laevis</u> (A. Milne Edwards)		R3					
<u>Lydia annulipes</u> (H. Milne Edwards)		R3					
<u>Pilodius areolatus</u> (H. Milne Edwards)		R3					
<u>Pilodius scabriculus</u> Dana		R3					
<u>Pseudozius caystrus</u> (Adams & White)		11	R3				
<u>Xanthias lamarkii</u> (A. Milne Edwards)		R3					
*Xanthid sp(p.).		12	13	14	15		
Ocypodidae							
<u>Macrophthalmus</u> (<u>Macrophthalmus</u>)		3	4	5	6	7	R2
<u>convexus</u> Stimpson							
<u>Ocypode laevis</u> Dana		3	4				
<u>Uca tetragonon</u> (Herbst)		3	4	6	7	R2	

Grapsidae					
	<u>Cyclograpsus</u> sp. cf. <u>C. intermedium</u>	11			
	Ortmann				
	<u>Grapsus tenuicrustatus</u> (Herbst)	10			
	<u>Metopograpsus thukuhar</u> (Owen)	5	R3		
	<u>Pachygrapsus minutus</u> A. Milne	R3			
	Edwards				
	<u>Pachygrapsus plicatus</u> (H. Milne	R3			
	Edwards)				
	<u>Pachygrapsus</u> sp.	15			
	<u>Percnon planissimum</u> (Herbst)	5			
Gecarcinidae					
+	<u>Cardisoma carnifex</u> (Herbst)	6	R1		
Hapalocarcinidae					
*Hapalocarcinid	sp.	13			
Mollusca					
Gastropoda					
" indicates species known only from empty shells					
Trochidae					
+	<u>Trochus</u> (<u>Tectus</u>) <u>niloticus</u> L.	12	15		
Turbinidae					
+	<u>Astraea</u> (<u>Australium</u>) <u>rhodostoma</u>	12	R1		
	Lam.				
	<u>Turbo</u> (<u>Marmarostoma</u>) <u>argyrostomus</u>	12			
	L.				
*	<u>Turbo</u> (<u>Marmarostoma</u>) <u>setosus</u> Gmelin	12			
Neritidae					
	<u>Nerita plicata</u> L.	2	16		
Phenacolepadidae					
	<u>Phenacolepis tenuisculpta</u> Thiele	R3			
Vermetidae					
	<u>Vermetus maximus</u> (Sowerby)	12			
Planaxidae					
	<u>Planaxis</u> (<u>Angiola</u>) <u>lineatus</u> (da	11			
	Costa) (= <u>ineptus</u> Gould)				
Cerithiidae					
	" <u>Bittium</u> sp.	L20			
	<u>Cerithium</u> <u>columna</u> Sowerby	16	L5	L9	L11
*	<u>Cerithium</u> <u>nodulosus</u> (Bruguère)	13			
	<u>Cerithium</u> (<u>Clypeomorus</u>) <u>rugosum</u>	2	16		
	Wood				
	<u>Cerithium</u> (<u>Clypeomorus</u>) <u>variegatum</u>	5	7		
	Quoy & Gaimard				

<u>Cerithium</u> (<u>Conocerithium</u>) <u>egenum</u>	12					
Gould						
<u>Cerithium</u> (<u>Semivertagus</u>) <u>nesioticum</u>	12					
Pilsbry & Vanatta						
<u>Rhinoclavis</u> <u>asper</u> L.	5	10	L1	L2	L3	L5
	L6	L9	L10	L20		
Triphoridae						
<u>Triphora</u> <u>pavimenta</u> (Laserow)	L9					
Architectonicidae						
" <u>Philippia</u> <u>radiata</u> (Röding)	L11					
Vanikoridae						
* <u>Vanikoro</u> sp.	12					
Hipponicidae						
<u>Hipponix</u> <u>conicus</u> (Schumacher)	12					
Females parasitic on <u>Astraea</u> <u>rhodostoma</u> and <u>Turbo</u> <u>argyrostomus</u>						
Strombidae						
<u>Strombus</u> <u>gibberulus</u> <u>gibbosus</u>	10	L1	L6	L8	L9	L11
(Röding)						
<u>Strombus</u> <u>maculatus</u> Sowerby	L5	L18				
<u>Strombus</u> <u>mutabilis</u> Swainson	L1	L2	L4	L5	L9	
(juveniles)						
Naticidae						
<u>Natica</u> <u>areolata</u> Recluz	L20					
<u>Natica</u> <u>bougei</u> Sowerby	L1	L2	L16			
<u>Natica</u> <u>gaultieriana</u> Recluz	5	L11	L13	L14	L15	
(= <u>marochiensis</u> of authors - non Gmelin)	L17	L18	L19			
Cypraeidae						
+ <u>Cypraea</u> (<u>Erosaria</u>) <u>caputserpentis</u>	12	13				
L.						
* <u>Cypraea</u> (<u>Erosaria</u>) <u>helvola</u> L.	R1					
* <u>Cypraea</u> (<u>Luria</u>) <u>isabella</u> L.	R1					
<u>Cypraea</u> (<u>Mauritia</u>) <u>maculifera</u>	12					
(Schilder)						
<u>Cypraea</u> (<u>Monetaria</u>) <u>annulus</u>	L3					
<u>obvelata</u> Lam.						
+ <u>Cypraea</u> (<u>Monetaria</u>) <u>moneta</u> L.	5	12	13	16		
Cymatiidae						
<u>Cymatium</u> <u>nicobaricum</u> (Röding)	16					
(juvenile)						
* <u>Septa</u> <u>pilearis</u> (L.)	13					
Muricidae						
+ <u>Drupa</u> <u>morum</u> Röding	12					
<u>Drupa</u> <u>ricinus</u> (L.)	12					

	<u>Drupina grossularia</u> (Röding)	12		
	<u>Morula granulata</u> (Duclos)	16		
+	<u>Morula uva</u> (Röding)	12	14	
	<u>Thais armigera</u> (Link)	12		
Magilidae				
	<u>Coralliophila violacea</u> (Kiener)	12		
	<u>Magilus antiquus</u> (Montfort)	12		
Pyrenidae				
*	<u>Pyrene</u> sp. cf. <u>spiculus</u> Duclos	14		
Buccinidae				
*	<u>Cantharus</u> sp. (juvenile)	14		
	<u>Engina</u> (<u>Enginopsis</u>) <u>histrion</u> (Reeve)	L9		
	<u>Engina</u> (<u>Enginopsis</u>) <u>lauta</u> (Reeve)	L9		
Nassariidae				
	<u>Nassarius graniferus</u> (Kiener)	L11		
Fasciolariidae				
+	<u>Peristernia nassatula</u> (Lam.)	12	14	
Mitridae				
*	<u>Mitra stictica</u> (Link)	R1		
	<u>Mitra</u> (<u>Strigatella</u>) <u>litterata</u> (Lam.)	16		
	" <u>Vexillum</u> (<u>Pusia</u>) <u>tusum</u> (Reeve)	L20		
Marginellidae				
	" <u>Gibberula</u> sp. cf. <u>ros</u> (Reeve)	L20		
Conidae				
*	<u>Conus catus</u> Hwass	R1		
+	<u>Conus chaldaeus</u> (Röding)	12	R1	
+	<u>Conus ebraeus</u> L.	12	16	R1
*	<u>Conus lividus</u> Hwass	R1		
	<u>Conus miliaris</u> Hwass	12		
	<u>Conus sponsalis</u> Hwass	12		
Turridae				
	" <u>Clavus</u> sp.	L10		
	<u>Eucithara pulchella</u> (Reeve)	L3		
Terebridae				
	<u>Terebra affinis</u> Gray	L3		
Acteonidae				
	<u>Pupa sulcata</u> (Gmelin)	10	L6	L9 L11 L12 L17 L18 L19 L20
Bullidae				
	<u>Bulla punctulata</u> A. Adams	L5		

Athyidae

<u>Alys</u> <u>cylindrica</u> (Helbling)	5	L5	L6	L8	L10	L11
	L12	L13	L17	L20		
<u>Alys</u> <u>naucum</u> (L.)	L1					

Scaphandridae

" <u>Cylichna</u> (<u>Diniatys</u>) <u>dentifera</u> A. Adams	L6
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Pyramidellidae

<u>Otopleura</u> <u>auriscati</u> (Holten)	L4
<u>Pyramidella</u> <u>acus</u> (Gmelin)	5 9 L2 L4
<u>Pyramidella</u> <u>terebellum</u> (Müller)	L10

Aplysiidae

<u>Stylocheilus</u> <u>longicauda</u> (Quoy & Gaimard)	L5
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Hexabanchidae

<u>Hexabanchus</u> <u>marginatus</u> (Quoy & Gaimard)	5 (stranded)
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Pelecypoda

Arcidae

<u>Arca</u> <u>arabica</u> Philippi	12
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Mytilidae

<u>Modiolus</u> <u>auriculatus</u> (Krauss)	5 L2
* <u>Lithophaga</u> sp.	13

Pteriidae

* <u>Pinctada</u> sp.	13
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Pinnidae

* <u>Pinna</u> <u>muricatum</u> L.	R1
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Lucinidae

<u>Anodontia</u> <u>edentula</u> (L.)	L9
<u>Codakia</u> <u>punctata</u> (L.)	L9
<u>Codakia</u> (<u>Epicodakia</u>) <u>divergens</u> (Philippi)	10

Chamidae

<u>Chama</u> <u>iostoma</u> (Conrad)	12
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Cardiidae

<u>Fragum</u> <u>fragum</u> (L.)	L9 L10 L16
<u>Fragum</u> <u>unedo</u> (L.)	L12 L20

Tridacnidae

+ <u>Tridacna</u> (<u>Chametrachea</u>) <u>maxima</u> (Röding)	12 13
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Veneridae

<u>Gafrarium pectinatum</u> (L.)	5	L18			
* <u>Gafrarium</u> sp.	14				
<u>Lioconcha ornata</u> (Dillwyn)	L13	L14	L16	L17	L19

Sanguinolariidae

<u>Asaphis violascens</u> (Forsk.)	5	6	9		
" <u>Gari gari</u> (L.)	L12	L18	L20		

Tellinidae

<u>Arcopagia</u> (<u>Pinguitellina</u>) <u>robusta</u> (Hanley)	L1	L4	L6	L7	L11	L12
	L13	L15	L16	L18	L19	L20
<u>Quidnipagus palatum</u> Iredale	4	5				
<u>Tellinella staurella</u> (Lam.)	L2	L6	L9	L10	L12	
	L13	L19				

Cephalopoda

Octopodidae

<u>Octopus</u> sp. (large)	12				
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Echinodermata

Asteroidea

Ophidiasteridae

<u>Linckia multifora</u> (Lam.)	R3				
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Asteropidae

<u>Asteropsis carinifera</u> (Lam.)	R1				
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Acanthasteridae

<u>Acanthaster planci</u> (L.)	12	II	IV		
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Ophiuroidea

Amphiuridae

<u>Amphiodia</u> sp. cf. <u>individua</u> Morten- sen	L18				
<u>Amphipholis squamata</u> (Delle Chiaje)	L5	L12	L18	L19	L20
	R1				

Ophiactidae

<u>Ophiactis savignyi</u> Müller & Troschel	14				
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Ophiotrichidae

<u>Macrophiothrix longipeda</u> (Lam.)	12	R1			
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Ophiocomidae

<u>Ophiarthrum elegans</u> Peters	12	R1	R3		
<u>Ophiocoma dentata</u> Müller & Troschel	12	R1			
<u>Ophiocoma erinaceus</u> Müller & Troschel	12	13			

<u>Ophiocoma pica</u> Müller & Troschel	12				
<u>Ophiocomella sexradia</u> (Duncan)	13	14			
Echinoidea					
Echinometridae					
<u>Echinometra mathaei</u> (de Blainville)	12	13	R1		
<u>Heterocentrotus mammillatus</u> (L.)	12				
Holothuroidea					
Holothuriidae					
<u>Actinopyga mauritiana</u> (Quoy & Gaimard)	13	R1			
<u>Holothuria</u> (<u>Halodeima</u>) <u>atra</u> Jaeger	5	10	R1		
<u>Holothuria</u> (<u>Lessonothuria</u>) <u>pardalis</u> Selenka	R3				
<u>Holothuria</u> (<u>Mertensiothuria</u>) <u>leucospilota</u> Brandt	12	R1			
<u>Holothuria</u> (<u>Mertensiothuria</u>) <u>pervicax</u> Selenka	R1				
<u>Holothuria</u> (<u>Platyperona</u>) <u>difficilis</u> Semper	R1				
<u>Holothuria</u> (<u>Semperothuria</u>) <u>cinerascens</u> (Brandt)	12	R1			
<u>Holothuria</u> (<u>Thymiosycia</u>) <u>hilla</u> Lesson	12	R1			
<u>Holothuria</u> (<u>Thymiosycia</u>) <u>impatiens</u> (Forsk.)	13	R1			
Stichopodidae					
<u>Stichopus chloronotus</u> Brandt	14	R1			
<u>Stichopus horreus</u> Selenka	R1				
<u>Stichopus variegatus</u> Semper	13				
Synaptidae					
<u>Euapta godeffroyi</u> (Semper)	R1				
Chiridotidae					
<u>Chiridota hawaiiensis</u> Fisher	11	L19	L20	R3	
Hemichordata					
Enteropneusta					
<u>Ptychodera flava</u> Eschscholtz	9	10	L1	L2	L3 L5 L6 L7 L9 L10 L11 L12 L13 L14 L15 L16 L17 L19 L20
<u>Glossobalanus</u> sp.	L13	L14	L15	L16	L17 L18 L19 L20

Cephalochordata

Asymmetron lucayanum Andrews L3 L4 L5 L6

Pisces

Teleostei

Congridae

Conger cinereus cinereus Rüppell R1

Echelidae

Echelid sp. L11

Ophichthyidae

Callechelys melanotaenia Bleeker 10

Leiuranus semicinctus (Lay & Bennett) 10 L5

Moringuidae

Moringua macrocephala (Bleeker) R1

Muraenidae

Gymnothorax richardsoni (Bleeker) 14

Pseudechidna brummeri Bleeker 12

Chromidae

Chromis caeruleus (Cuvier) 14

Dascyllus aruanus (L.) 14

Eleotridae

Asterropteryx semipunctatus Rüppell 14

Eviota gymnocephala Weber 14

Gobiidae

Paragobiodon echinocephala (Rüppell) 14

Zonogobius semidoliatus (Valenciennes) 14

Scorpaenidae

Sebastapistes bynoensis (Richardson) R1

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Bursa bufolia Gmelin

Atiu: 610. Rarotonga: 611

B. gruentata Sowerby?

Mauke: 622*-623*

B. lampas Linnaeus

Rarotonga: 833

Bursa sp.

Rarotonga: 612-613, 614*

Tonna perdix Linnaeus

Rarotonga: 615-617

Malea pomum Linnaeus

Aitutaki: 618-620, 621*

Drupa albolabris Blainville

Rarotonga: 629-632

D. grossularia Røding

Atiu: 625-628

D. hystrix Linnaeus

Atiu: 637-641

D. morum Røding

Rarotonga: 633-634, 636

D. ricinus Linnaeus

Rarotonga: 624

D. rubucaesium Røding

Rarotonga: 642*-643*

Drupa sp.

Aitutaki: 644. Manihiki: 645

Coralliophila bulbiformis Conrad

Rarotonga: 690*

C. erosa Gmelin

Aitutaki: 635*

C. violacea Kiener

Rarotonga: 687-689

Thais affinis Reeve

Atiu: 650-651

T. armigera Røding

Aitutaki: 655. Atiu: 652-654

T. intermedia Kiener

Atiu: 658-659

T. tuberosa Røding

Atiu: 656-657

Nassa sarta Bruguiere

Rarotonga: 660-664

Morula nodus St Vincent

Atiu: 665, 668. Rarotonga: 666-667, 669-670, 674

M. ochrostoma Blainville

Atiu: 677

Morula tuberculata Blainville

Atiu: 671-673

Morula sp.

Aitutaki: 675*-676*

Vexilla vexillum Gmelin

Rarotonga: 678*-681*

Cantharus fumosus?

Atiu: 685-686

C. undosus Linnaeus

Rarotonga: 682-684

Rhizochilus madreporarum Sowerby

Mauke: 691*-694*

Nassarius granuliferous Kiener

Rarotonga: 695-698

N. hirtus Kiener

Rarotonga: 702-703

N. papillosus Linnaeus

Rarotonga: 699-701

Latirus nodus Martin

Atiu: 704-705

Peristernia nassatula Lamarck

Aitutaki: 710-712. Atiu: 706-709

Pupa sulcata Gmelin

Aitutaki: 713*-717*

Aplustrum aplustre Linnaeus

Rarotonga: 719*-720*

Bulla adamsi Menke?

Mauke: 723*

B. ampulla Linnaeus

Rarotonga: 724-726

B. punctulata Adams?

Aitutaki: 721*

Bullina scabra Gmelin

Rarotonga: 722*

Haminoea sp.?

Aitutaki: 727*

Eulima sp.

Aitutaki: 728-732

Otopleura mitralis Adams

Mauke: 733-741

Pyramidella sulcata Adams

Aitutaki: 744-746, 747*, 748-750, 751*, 752, 753*

P. terebellum Muller

Rarotonga: 742-743

Melampus luteus Quoy and Gaimard

Atiu: 754-756

Melampus sp.

Aitutaki: 757*-764*

Siphonaria normalis Gould?

Aitutaki: 765*

Pinctada margaritifera Linnaeus

Manihiki or Penrhyn: 766-767

Pinctada sp.

Manihiki: 779

Pinna muricata Linnaeus

Rarotonga: 768-769

Pecten sp.?

Rarotonga: 772*-774*. Suwarrow: 770

Trapesium sp.?

Aitutaki: 771

Codakia punctata Linnaeus

Atiu: 775*

Isognomon sp.?

Aitutaki: 776-778. Rarotonga: 780-781

Mytilidae species

Rarotonga: 782*-787*

Lima hians?

Aitutaki: 788-790

Chama sp.

Aitutaki: 791-792, 834

Corculum sp.

Rarotonga: 793-794

Tridacna maxima Röding

Pukapuka: 795*. ?Rarotonga: 796-797

Semele sp.

Aitutaki: 799-800, 803-808. Rarotonga: 798, ?801*-802*

Tellina (Scutarcopagia) scobinata Linnaeus

Atiu: 809-811

Gari (Asaphis deflorata)

Aitutaki: 812-816

Venus (Periglypta) reticulata Linnaeus

Aitutaki: 817-820

Lambis (Harpago) chiragra Linnaeus

Palmerston: 821. Pukapuka: 822-823

L. truncata Kiener

Rarotonga: 824-827

Spondylus sp.

Penrhyn: 837. Suwarrow: 839*. No location: 840

Spirula spirula Linnaeus

Aitutaki: 838*