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## **Appendices**

**Appendix 1.** Grain size analysis for sediment samples. Variables with –9999 represent missing values; **E** indicates a possible under estimation of the < 2 mm fraction.

site	Clay (<4um)	Silt (4to63um)	Vfsand (63to125um)	Fsand (125to250um)	Msand (0.25to0.5mm)	Csand (0.5to1mm)	Vcsand (1to2mm)	Granules (2to4mm)	Pebbles (4to64mm)	Cobbles (>64mm)	Total	Percent mud	% <2mm	% >2mm	% CO3<2mm	% CO3>2mm	% CO3	comments	
1	1.4	2.2	22.9	56.9	10.7	3.6	2.3	0	0	0	100	3.6	100	0	25	0	25	No >2mm	
2	1.7	4.8	34	39.7	10	2.6	2.4	3.6	1	0	100	6.5	95.2	4.6	44	94.8	46.2		
3	1.9	2.3	13.7	71.1	8.6	1.7	0.8	0	0	0	100	4.2	100.1	0	21.6	0	21.6	No >2mm	
4	2.4	12.4	32.7	18.4	6	5.1	4	4.6	14.3	0	100	14.8	81	18.9	45.3	96.3	54.9		
5	14.1	11.6	23.3	8.8	3.9	4.1	4.9	8.8	20.4	0	100	25.7	70.7	29.2	34.7	74.6	46.3		
6	13.7	22.2	38.4	22.4	2.5	0.5	0.3	0	0	0	100	35.9	100	0	32.1	0	32.1	No >2mm	
7	6	0.3	2.1	11.2	9.5	17.6	22.2	15.4	15.5	0	99.9	6.3	68.9	30.9	71.5	65.7	69.6		
8	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	
9	11.8	2.7	11.1	39.4	22.3	5	5.2	2	0.5	0	100	14.5	97.5	2.5	40.9	93.5	42.2		
10	1	6.3	3	71.1	11.6	2.8	2.2	0.9	1	0	100	7.3	98	1.9	19.3	74.1	20.3		
11	9.1	11.9	34.6	23	8.1	5	4.3	1.3	2.8	0	100	21	96	4.1	43.8	76.9	45.2		
12	20.7	30.9	5.1	26.6	11	1.2	0.9	0.8	2.8	0	100	51.6	96.4	3.6	22.3	0	21.5		
13	2.4	1	1.7	22.4	31.1	9.4	9.3	15.8	6.9	0	100	3.4	77.3	22.7	28.6	57.5	35.2		
14	10.2	6.8	14.4	45.6	14.6	4.7	2.9	0.5	0.2	0	100	17	99.2	0.7	27.2	89.3	27.6		
15	3.6	2.7	12.6	48.6	18.3	7.3	5	1.5	0.3	0	100	6.3	98.1	1.8	27.9	81.4	28.8		
16	6.7	4.4	7.7	49.7	15.6	8.3	6	0.9	0.6	0	100	11.1	98.4	1.5	41.6	86.8	42.2		
17	31.8	33.5	6.7	18.5	9	0.5	0.2	0	0	0	100	65.3	100.2	0	19.3	0	19.3	No >2mm	
18	32.7	26.7	6.1	11.5	22.6	0.3	0.1	0	0	0	100	59.4	100	0	13	0	13.0	No >2mm	
19	30.4	25.6	9.7	10	24	0.2	0.1	0	0	0	100	56	100	0	16.2	0	16.2	No >2mm	
20	1.2	0.6	0.1	29.3	26.7	15.8	12.6	12.4	1.5	0	100	1.8	86.3	13.9	37.6	65.7	41.6		
21	3.1	2.1	2.5	44.4	17.6	9.8	10.4	6.6	3.4	0	100	5.2	89.9	10	44.4	70.3	46.9		
22	2.7	1.6	6.5	48.3	19.2	7.3	4.4	3.6	6.4	0	100	4.3	90	10	32.1	51.7	34.1		
23	44.8	25.7	4	5	19.8	0.4	0.3	0	0	0	100	70.5	100	0	15.9	0	15.9	No >2mm	
24	42.9	38.9	11.1	5.1	1.7	0.1	0.1	0	0	0	100	81.8	99.9	0	15.4	0	15.4	No >2mm	
25	23.2	34.6	15.5	8.5	18	0.1	0.1	0	0	0	100	57.8	100	0	15.5	0	15.5	No >2mm	
26	1.6	0.7	0.2	4.9	16	18.8	17.8	18.6	21.3	0	100	2.3	60	39.9	40.5	44.8	42.2	E	
27	1.6	0.3	0.2	5.1	24.4	25.4	22.7	16	4.5	0	100	1.9	79.7	20.5	65.6	86.1	69.9	E	
28	0.2	4.6	1.7	21.5	23.8	18.4	14.1	10.9	4.7	0	100	4.8	84.3	15.6	56.3	82.2	60.3	E	
29	4.5	0.1	3.5	52.3	28.3	6.8	4.4	0	0	0	100	4.6	99.9	0	50	0	50.0	No >2mm	
30	30.2	25.2	22.5	15.1	6.7	0.3	0.1	0	0	0	100	55.4	100.1	0	9.3	0	9.3	No >2mm	
31	22.7	9.4	29.7	23.7	1.4	0.3	0.5	2.3	10.1	0	100	32.1	87.7	12.4	12.3	92.5	22.3		
32	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	No sample
33	1.4	0	3.7	11.8	42.4	21.2	13.6	4.5	1.4	0	100	1.4	94.1	5.9	68.2	78.4	68.8		
34	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	
35	5.5	1.9	1.6	55.7	25.7	3.2	3.7	1.9	0.9	0	100	7.4	97.3	2.8	26.1	83.6	27.7		
36	1.6	0.1	0.5	2.3	10.3	16.5	18.5	27.6	22.6	0	100	1.7	49.8	50.2	64.2	85.8	75.0	E	
37	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	
38	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	Insuff. sample
39	2.2	0	1.5	36.4	25.8	9.6	10.7	6.8	6.9	0	100	2.2	86.2	13.7	46.1	94.1	52.6		
40	34.2	19.5	8.4	12.9	5	2.8	1.5	4.4	11.2	0	100	53.7	84.3	15.6	52.2	72.7	55.3		
41	4.7	1.4	3.2	16.3	19.6	11.3	15.6	18.2	9.9	0	100	6.1	72.1	28.1	19.3	47.5	27.3	E	

site	Clay (<4um)	Silt (4to63um)	Vfsand (63to125um)	Fsand (125to250um)	Msand (0.25to0.5mm)	Csand (0.5to1mm)	Vcsand (1to2mm)	Granules (2to4mm)	Pebbles (4to64mm)	Cobbles (>64mm)	Total	Percent mud	% <2mm	% >2mm	% CO3<2mm	% CO3>2mm	% CO3	comments
42	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	No sample
43	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	No sample
44	1.6	0.9	0.3	8.7	49.8	19.9	7.8	3.2	8	0	100	2.5	89	11.2	36.7	75.3	41.1	
45	13.3	6.5	7.3	13.1	13.5	17.6	16.9	8	3.7	0	100	19.8	88.2	11.7	35.9	79.1	40.9	
46	1.4	0.1	0	1.1	14	27.1	17	20.5	18.9	0	100	1.5	60.7	39.4	37.5	34.8	36.5	E
47	1.6	0.5	0.7	7	19.1	34.5	17.8	7.6	11.1	0	100	2.1	81.2	18.7	45.4	34.1	43.2	
48	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	No sample
49	36.5	26.2	12	6.3	15	2.5	1.5	0	0	0	100	62.7	100	0	9.5	0	9.5	No >2mm
50	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	Insuff. sample
51	3.6	1.1	4	16.7	10.5	15.1	17.6	12.7	18.7	0	100	4.7	68.6	31.4	34.2	64.2	43.6	
52	1.7	0.5	7	3.5	5.3	12.4	32.3	20.1	17.1	0	100	2.2	62.7	37.2	24.7	55.3	36.1	
53	1.5	0.5	6.6	29.6	8.5	6.5	7.3	12	27.3	0	100	2	60.5	39.3	35.4	92.9	57.9	E
54	2.5	1.1	25.2	69.8	1	0.3	0.1	0	0	0	100	3.6	100	0	40.3	0	40.3	No >2mm
55	2.4	0.5	1.2	12.2	48.2	23.8	6.6	3.6	1.4	0	100	2.9	94.9	5	18.9	77.1	21.8	
56	1.1	0.7	0.1	0.3	3.5	28.9	22	15.9	27.5	0	100	1.8	56.6	43.4	40	91.1	62.2	E
57	5.8	1.8	10.2	6	2.3	3.7	7.8	15.4	46.9	0	100	7.6	37.6	62.3	59.7	98.9	84.1	E
58	15.2	30.1	25.1	20.9	5.3	2.4	1.1	0	0	0	100	45.3	100.1	0	23.7	90.2	23.7	
59	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	
60	9.5	13.3	64.6	7.1	4.1	0.9	0.5	0	0	0	100	22.8	100	0	34.9	0	34.9	No >2mm
61	3.6	7	86.2	2.5	0.5	0.1	0	0	0	0	100	10.6	99.9	0	42.1	0	42.1	No >2mm
62	12.1	21.3	40.5	9.8	1.3	1.7	4.6	2.1	6.6	0	100	33.4	91.3	8.7	46.6	97.3	51.0	
63	19.8	22.1	28.6	21	6.7	1.3	0.7	0	0	0	100	41.9	100.2	0	24.3	0	24.3	No >2mm
64	12	43.1	10.4	24.9	2	7.2	0.3	0	0	0	100	55.1	99.9	0	27.4	0	27.4	No >2mm
65	26	41	7.7	4.7	19.8	0.3	0.5	0	0	0	100	67	100	0	28.1	0	28.1	No >2mm
66	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	No sample
67	1.5	1.2	1	12	17	15.1	14.3	10.9	27	0	100	2.7	62.1	37.9	7.2	7.7	7.4	
68	6.6	4	60	20.4	4.8	1.1	0.9	1.8	0.4	0	100	10.6	97.8	2.2	23.2	86.8	24.6	
69	4.3	2.9	11.3	24.3	23.7	16	11.7	3.6	2.2	0	100	7.2	94.2	5.8	38.7	78.2	41.0	
70	31.7	25.8	3.7	23.9	8.4	6	0.6	0	0	0	100	57.5	100.1	0	18	0	18.0	No >2mm
71	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	No sample
72	5.4	2.3	36.5	22.8	11.2	9.8	5.7	4.7	1.6	0	100	7.7	93.7	6.3	40	79.2	42.5	
73	10.7	9.1	7.8	54.4	11.7	2.8	1.8	1.2	0.5	0	100	19.8	98.3	1.7	33.5	0	32.9	
74	0.7	0.3	0.3	0.8	5.5	37.3	12.3	6.8	36	0	100	1	57.2	42.8	18	66.1	38.6	E
75	8.4	3.5	31.1	24.5	9.5	12.2	8.5	1.6	0.7	0	100	11.9	97.7	2.3	39.7	97.1	41.0	
76	3.3	0.4	1.7	14.9	19.8	37.1	11.4	5	6.4	0	100	3.7	88.6	11.4	10.9	22.7	12.2	
77	10.3	7.5	6.2	31.2	15.4	11	9.1	5.5	3.7	0	100	17.8	90.7	9.2	45.1	88.8	49.1	
78	0.4	0.8	0.4	1.2	8.9	17	13.1	19.6	38.6	0	100	1.2	41.8	58.2	23.8	28.7	26.7	E
79	1.8	2.3	26.9	47.3	7.2	6.4	3.2	2.1	2.9	0	100	4.1	95.1	5	31.9	81.5	34.4	
80	1.2	1.1	0.8	5.4	7.4	13	6.7	32	32.4	0	100	2.3	35.6	64.4	35.9	65.3	54.8	E
81	0	0	0	0	0	0	0	1.2	18.1	80.7	100	0	0	100	0	14.4	14.4	No <2mm
82	0	0.1	1.6	2	13.9	42.7	19.7	14.3	5.7	0	100	0.1	80	20	19.8	10	17.8	
83	0.8	3.1	2.8	5.2	20.2	27.7	18.4	8.6	13.2	0	100	3.9	78.2	21.8	49.4	84.3	57.0	E
84	0.7	0.6	4.4	5.8	10.1	10.2	11.9	16.3	40	0	100	1.3	43.7	56.3	20	10.1	14.4	

site	Clay (<4um)	Silt (4to63um)	Vfsand (63to125um)	Fsand (125to250um)	Msand (0.25to0.5mm)	Csand (0.5to1mm)	Vcsand (1to2mm)	Granules (2to4mm)	Pebbles (4to64mm)	Cobbles (>64mm)	Total	Percent mud	% <2mm	% >2mm	% CO3<2mm	% CO3>2mm	% CO3	comments
85	0.6	1.2	2.5	12.4	20.5	14.8	12.7	15.7	19.7	0	100	1.8	64.7	35.4	31.5	51.1	38.5	E
86	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	No sample
87	0.9	1.4	0	0.5	20.5	39.7	23.8	7.9	5.2	0	100	2.3	86.8	13.1	36.3	69.7	40.6	E
88	1.4	0.8	2.8	3.6	4.1	12.2	11.1	4.6	59.5	0	100	2.2	36	64.1	46.2	34.1	38.5	E
89	12.4	9.5	29.5	32.3	7.5	3	5.8	0	0	0	100	21.9	100	0	37.8	0	37.8	No >2mm
90	7.5	4.6	5.3	41.5	18.5	11.2	8.7	2.4	0.3	0	100	12.1	97.3	2.7	41.6	88.9	42.9	
91	24.4	7.7	1.1	5.1	8.9	6.2	11.2	7.1	28.3	0	100	32.1	64.6	35.4	15	52	28.1	
92	0.2	0.8	0.4	4.9	5	5.1	6.9	23.9	52.8	0	100	1	23.3	76.7	38.4	11.5	17.8	E
93	5.6	2.4	1.3	2.6	9.5	40	17.9	6.7	14	0	100	8	79.3	20.7	19.3	34.8	22.5	
94	10.1	5.3	32.2	18.5	6.9	5.3	6.4	4.5	10.8	0	100	15.4	84.7	15.3	38.4	76.7	44.3	
95	4.7	1.5	7.3	3.4	7	13.1	14.6	9.2	39.2	0	100	6.2	51.6	48.4	36.7	40.5	38.5	E
96	0.9	2.8	1	0.4	4	40.5	37.4	6.4	6.6	0	100	3.7	87	13	8.6	23.2	10.5	
97	0	2.7	0.5	2.5	7.4	24.4	21.8	13.4	27.4	0	100	2.7	59.3	40.8	13.7	33.7	21.9	E
98	1	0.8	0.6	17.3	26.3	21.9	17.9	12.7	1.4	0	100	1.8	85.8	14.1	31.5	44.9	33.4	E
99	1.2	0.6	8.5	5	16.4	11.6	15.3	14.7	26.7	0	100	1.8	58.6	41.4	43.5	28	37.1	
100	2.1	0.5	74.2	22.5	0.4	0.2	0.1	0	0	0	100	2.6	100	0	42.7	0	42.7	No >2mm
101	2.1	0	10.5	25	26.1	10.1	11.8	6.5	8	0	100	2.1	85.6	14.5	42.6	88.4	49.3	
102	14.5	13.3	44	20.8	5.2	1	1.3	0	0	0	100	27.8	100.1	0	44.3	0	44.3	No >2mm
103	2.5	1.2	10	4.1	9	12.2	16.6	10.9	22.1	11.2	100	3.7	55.6	44.2	50.3	24.2	38.7	
104	3	7.7	37.8	35.1	10.4	2.8	1.4	1.2	0.6	0	100	10.7	98.2	1.8	52.6	91.9	53.3	
105	1.1	2	1	47.6	32.8	7.7	2.2	3.4	2.1	0	100	3.1	94.4	5.5	69.7	96.7	71.1	
106	3.2	2.1	20.7	8.6	9	13	18.1	24.1	1.2	0	100	5.3	74.7	25.3	46.5	5	36.0	E
107	4.7	2.5	14.4	7.4	14.1	9.3	9.3	7.3	5.7	25.3	100	7.2	61.7	38.3	60.4	81.2	68.4	E
108	2.8	1.9	48.3	21.1	14	6.7	5.1	0	0	0	100	4.7	99.9	0	59.5	0	59.4	Insuff. >2mm (0.5%)
109	0	1.4	55.3	31.1	1.7	0.7	0.6	8.2	1	0	100	1.4	90.8	9.2	58.4	97.2	62.0	
110	2.4	4.8	12.9	23.7	22.5	16.4	9.4	6.2	1.6	0	100	7.2	92.1	7.8	63.9	87.5	65.7	
111	9.4	6.2	3.2	50.6	10.8	11.1	5.1	2.7	0.9	0	100	15.6	96.4	3.6	49.3	86.1	50.6	
112	1.2	1.6	2.3	32.8	27.3	16.8	10.6	6.3	1	0	100	2.8	92.6	7.3	63.7	94.5	65.9	
113	4.4	3.8	21.9	25.2	11.2	9	9.8	6.9	4.6	3.2	100	8.2	85.3	14.7	77.3	94	79.8	
114	7.7	2.9	8.1	4.5	13.3	25.9	27	7.7	2.9	0	100	10.6	89.4	10.6	66.1	86.1	68.2	
115	7.9	2.5	10.9	7.2	21	24.5	19.8	4.6	1.7	0	100	9.4	93.8	6.3	67.9	84.9	69.0	
116	17.9	15.2	18.1	25.3	9.5	8.3	1.7	1.8	2.1	0	100	33.1	96	3.9	64.1	85.5	64.9	
117	9.7	10.4	8.8	40	15	9.6	4.4	0.7	1.3	0	100	20.1	97.9	2	33.9	75.9	34.7	
118	2.1	0	0.2	2.9	12.4	41.8	40.5	0	0	0	100	2.1	99.9	0	61.1	0	61.0	No >2mm
119	2.6	2.3	7.7	15.8	22.8	19.3	13.7	8.9	7	0	100	4.9	84.2	15.9	55.5	79.6	59.4	
120	4	1.4	2.2	11.6	16.1	20.3	21.5	13.5	9.2	0	100	5.4	77.1	22.7	52.6	76.9	58.0	
121	3.6	1.2	7.1	12.6	22.1	16.8	16.5	10.1	10	0	100	4.8	79.9	20.1	78.6	87.8	80.4	
122	3.1	2.2	1.2	3	6.2	9.6	10.4	17.8	46.5	0	100	5.3	35.7	64.3	66.9	45.8	53.3	E
123	13.1	5.6	4.2	47.4	20.7	4.3	3.2	1	0.4	0	100	18.7	98.5	1.4	23.1	54.2	23.5	
124	3.4	0.9	0.3	18.7	44	8	6.4	5.1	13.2	0	100	4.3	81.7	18.3	5.6	81.1	19.4	
125	55.3	17.3	14.1	8.1	4.8	0.3	0.1	0	0	0	100	72.6	100	0	10.9	0	10.9	Insuff. >2mm (0.8%)
126	3.2	1.4	1.2	10.3	18.3	16.6	25	10.4	13.6	0	100	4.6	76	24	60.6	77.6	64.7	E
127	3.9	3.3	3.3	16.8	36.2	19.2	6.1	4.5	6.7	0	100	7.2	88.8	11.2	81	81.4	81.0	

site	Clay (<4µm)	Silt (4to63µm)	Vfsand (63to125µm)	Fsand (125to250µm)	Msand (0.25to0.5mm)	Csand (0.5to1mm)	Vcsand (1to2mm)	Granules (2to4mm)	Pebbles (4to64mm)	Cobbles (>64mm)	Total	Percent mud	% <2mm	% >2mm	% CO3<2mm	% CO3>2mm	% CO3	comments
128	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	No sample
129	0	0	0	0	0	0	0	3.2	30	66.9	100	0	0	100.1	33.2	64.8	64.9	Insuff. <2mm (2.1%)
130	0	0	0	0	0	0	0	0.8	32.7	66.6	100	0	0	100.1	0	91.4	91.5	No <2mm
131	4.6	3.8	18.6	33	14.6	10.5	10.7	3.3	1	0	100	8.4	95.8	4.3	51.1	72.8	52.1	
132	1.4	2.1	10.9	31.8	24.1	9.5	9.5	4.4	6.3	0	100	3.5	89.3	10.7	9.9	84.7	17.9	
133	48.9	16.1	16.9	5.6	0.5	0.5	0.7	5.3	5.4	0	100	65	89.2	10.7	12.6	10.3	12.3	
134	19.9	8.9	4.4	16.8	8.5	13.2	15.4	6.5	6.3	0	100	28.8	87.1	12.8	33.2	93.6	40.9	
135	61.1	21.5	7.2	5.7	4.2	0.2	0.1	0	0	0	100	82.6	100	0	12.4	0	12.4	No >2mm
136	1.2	0	0.1	0.5	5.3	14.4	28.5	5.4	44.5	0	99.9	1.2	50	49.9	62.6	46.1	54.3	
137	0.7	1	0.1	0.5	3.8	14.2	31.2	29.6	19.1	0	100.1	1.7	51.5	48.7	74.7	45.3	60.5	E
138	0	0	0	0	0	0	0	0	100	0	100	0	0	100	0	89.5	89.5	No <2mm
139	0	0	0	0	0	0	0	2	98	0	100	0	0	100	39.7	18.9	18.9	Insuff. <2mm (1.9%)
140	0	0	0	0	0	0	0	20.4	79.6	0	100	0	0	100	37.6	21.7	21.7	Insuff. <2mm (7.2%)
141	0	0	0	0	0	0	0	7.7	72.3	20	100	0	0	100	8.2	3	3.0	Insuff. <2mm (7.3%)
142	0	0	0	0	0	0	0	0.6	99.5	0	100	0	0	100.1	0	84.9	85.0	No <2mm
143	4.2	1.2	1.8	9.7	21.7	15	17.9	16.4	12.1	0	100	5.4	71.5	28.5	35.1	17.4	30.1	
144	3.9	2	1	4	6.7	6.9	5.2	21.6	48.7	0	99.9	5.9	29.7	70.3	42.4	58	53.4	E
145	34.6	23.4	14.9	18	3.9	3.9	1.4	0	0	0	100	58	100.1	0	29.9	0	29.9	Insuff. >2mm (2.8%)
146	1.2	0.3	0.1	0.5	1.5	17.6	19.4	1.3	2	56.2	100	1.5	40.6	59.5	77	62.3	68.3	E
147	0	0	0	0	0	0	0	1.2	58	40.7	99.9	0	0	99.9	0	18.7	18.7	No <2mm
148	11.8	9.4	6.3	22.9	9.3	3.9	4.4	2.4	29.6	0	100.1	21.2	68	32	20.2	17.1	19.2	
149	0.3	0.1	0	0	2	18.2	13.9	13.6	51.9	0	100	0.4	34.5	65.5	67.8	16.7	34.3	
150	2.4	0.8	0.2	1.7	5.2	7.1	15.2	31.4	36	0	100.1	3.2	32.6	67.4	34.2	9.6	17.6	E
151	11.4	6.4	1.6	9.2	13.9	10.7	17.6	9.6	19.5	0	100	17.8	70.8	29.1	22.5	24.9	23.2	
152	1.8	0.7	0.3	6.1	6.8	6.7	9.3	9.6	58.8	0	100	2.5	31.7	68.4	49.2	38.1	41.7	E
153	0	0	0	0	0	0	0	29.6	70.5	0	100.1	0	0	100.1	64	88.7	88.8	Insuff. <2mm (63.1%)
154	0	0	0	0	0	0	0	2.4	97.5	0	100	0	0	99.9	0	19.2	19.2	No <2mm
155	0	0	0	0	0	0	0	4	96	0	100	0	0	100	27.6	14.7	14.7	Insuff. <2mm (6.2%)
156	0.4	0.6	0.1	0.2	2.7	15.3	33.6	18.4	28.6	0	100	1	52.9	47	88.3	79.5	84.1	E
157	0	0	0	0	0	0	0	0.9	99	0	99.9	0	0	99.9	0	85.6	85.5	No <2mm
158	3	0	0	0.4	1.6	3	6.4	8.2	77.4	0	99.9	3	14.4	85.6	79.1	53.6	57.3	
159	0.2	1.4	0.1	2	6.5	18.1	24.5	26.6	20.7	0	100	1.6	52.8	47.3	63.1	53.2	58.5	E
160	1.1	1.4	0.2	2.7	12.3	23.5	16.2	19.3	23.2	0	100	2.5	57.4	42.5	67.2	20.9	47.5	
161	0.7	0.9	0.1	3.5	11	5.1	18.9	23.7	36.1	0	100	1.6	40.2	59.8	59.9	61.1	60.6	
162	1.8	1.2	0.5	21.2	21.7	10.1	17.2	14.7	11.4	0	100	3	73.7	26.1	43.5	83.1	53.7	

**Appendix 2.** List of sponge species with sites in which these species were found.

Class	Order	Family	Genus	species	Species number		
Demospongiae	Agelasida	Agelasidae	<i>Agelas</i>	<i>mauritiana</i>	225	147	
	Astrophorida	Ancorinidae	<i>Ancorina</i>	989	228	139	
			<i>Stelletta</i>	1100	292	155	
	Dictyoceratida	Coppatiidae	<i>Jaspis</i>	185	268	66	
			Geodiidae	<i>Geodinella</i>	1223	254	148, 159
		Irciniidae	<i>Aplysinopsis</i>	330	231	126, 147	
			<i>reticulata</i>		232	127, 136	
			<i>Fascaplysinopsis</i>		251	154	
			<i>Fasciospongia</i>	49	252	130	
			<i>Ircinia</i>	1228	266	154	
				1255	267	103, 155	
			<i>Psammocinia</i>	305	286	126	
			<i>Thorectandra</i>	<i>excavata</i>	296	95, 107, 130	
	Spongiidae	<i>Hyattella</i>	<i>clathrata</i>	260	127		
			<i>intestinalis</i>	261	130, 141		
	Hadromerida	Clionidae	<i>Cliona</i>	76	244	107	
	Halichondrida	Axinellidae	<i>Reniochalina</i>	122	290	107, 129, 130, 146	
				<i>stalagmitis</i>	291	52, 107, 130	
		Halichondriidae	<i>Ciocalypta</i>	<i>compressa</i>	239	136, 138, 140, 159	
					43	240	156
			<i>Halichondria</i>	<i>sp</i>	255	122	
					191	256	136
		Hymeniacionidae	<i>Hymeniacion</i>	1264	262	92	
<i>Stylotella</i>			1290	293	139, 148		
Haplosclerida	Chalinidae	<i>Chalina</i>	<i>sp</i>	234	131		
		<i>Haliclona</i>	1292	257	66		

Class	Order	Family	Genus	species	Species number	
				307	258	95
				36	259	99, 139
			<i>Reniera</i>	90	289	136, 140, 147
		Niphatidae	<i>Aka</i>	332	226	32, 141
				<i>mucosa</i>	227	130
			<i>Gelliodes</i>	337	253	148, 154
		Oceanapiidae	<i>Oceanapia</i>	<i>amboinensis</i>	274	141
				1220	275	146
				192	276	147
				303	277	147
				94	278	107
				<i>sp</i>	279	122, 131
				1291	280	148
			<i>Pellina</i>	276	281	156
		Petrosiidae	<i>Petrosia</i>	134	282	137, 154
				357	283	140
				<i>crassa</i>	284	130
			<i>Xestospongia</i>	<i>bergquistia</i>	298	147
				158	299	146, 147
				565	300	136
	Poecilosclerida	Desmacididae	<i>Desmacidon</i>	702	246	43
			<i>Psammascus</i>	84	285	40
		Microcionidae	<i>Clathria (Thalysias)</i>	<i>abietina</i>	241	84, 130, 139
				<i>procera</i>	242	84
				<i>vulpina</i>	243	130
		Mycalidae	<i>Mycale (Aegagropila)</i>	1217	270	66
			<i>Mycale (Mycale)</i>	<i>sp</i>	269	81
				<i>cf. ridley</i>	271	66, 153

Class	Order	Family	Genus	species	Species number	
				396	272	66
				80	273	139
		Raspailiidae	<i>Axechina</i>	<i>raspailoides</i>	233	129
			<i>Echinodictyum</i>	<i>asperum</i>	247	139
				<i>cancellatum</i>	248	20, 38, 81, 95, 107, 126, 137, 144
			<i>Ectyoplasia</i>	<i>tabula</i>	249	148
				<i>vannus</i>	250	137, 153
			<i>Raspailia (Raspailia)</i>	<i>phakellopsis</i>	288	95, 148
			<i>Trikenrion</i>	<i>flabelliforme</i>	297	111, 122, 127, 130
		Tedaniidae	<i>Tedania</i>	27	295	153
	Spirophorida	Tetillidae	<i>Cinachyra</i>	333	235	148, 154
				577	236	88
				<i>australiensis</i>	237	140
				<i>schulzei</i>	238	42
			<i>Craniella</i>	402	245	127
	Sycettida	Sycettidae	<i>Sycetta</i>	206	294	107
	Verongida	Aplysinidae	<i>Aplysina</i>	1247	229	38
		Druinellidae	<i>Aplysinella</i>	814	230	81
			<i>Pseudoceratina</i>	190	287	81, 126, 139, 140, 144
		lanthellidae	<i>lanthella</i>	<i>basta</i>	263	66
				<i>flabelliformis</i>	264	66, 130, 136, 139, 148, 156
				<i>cf. flabelliformis</i>	265	129, 136, 137, 147

**Appendix 3.** List of bryozoan species and the sites in which these species were found.

Class	Order	Family	Genus	species	Species number		
Gymnolaemata	Cheilostomatida	Adeonidae	<i>Adeona</i>	<i>foliifera</i>	2	25, 81, 84, 88, 93, 95, 97, 99, 103, 114, 119, 120, 131, 143, 144	
			<i>Adeonella</i>	<i>intricaria</i>	3	50, 72, 78, 83, 88, 95, 103, 127, 152, 160	
					<i>lichenoides</i>	4	27, 38, 40, 50, 69, 80, 81, 82, 95, 119, 124, 147
		Aeteidae	<i>Aetea</i>	<i>anguina</i>	53	121	
				<i>truncata</i>	54	103, 122	
		Beaniidae	<i>Beania</i>	<i>regularis</i>	57	38, 67, 91, 95	
		Bugulidae	<i>Bugula</i>	<i>robusta</i>	58	95, 137	
				<i>vectifera</i>	59	95	
		Calloporidae	<i>Antropora</i>	<i>marginella</i>	67	122, 160	
				<i>Parellisina</i>	<i>curvirostris</i>	68	38
		Candidae	<i>Caberea</i>	<i>lata</i>	60	48, 67, 69, 73, 84, 95	
				<i>Scrupocellaria</i>	<i>curvata</i>	61	88, 144
					<i>diadema</i>	62	38, 40, 48, 69, 84, 88, 91, 95, 97, 103, 113, 116, 119, 121, 135, 141, 160
					<i>longispinosa</i>	63	95, 103
					<i>spatulata</i>	64	95
		Catenicellidae	<i>Catenicella</i>	<i>uberrima</i>	5	67, 69, 95, 103, 116, 121, 137	
		Cellariidae	<i>Cellaria</i>	<i>punctata</i>	72	40, 69, 95	
		Celleporidae	<i>Turbicellepora</i>	<i>sp</i>	6	65, 95	
		Cheiloporinidae	<i>Cheiloporina</i>	<i>haddoni</i>	28	38	
		Chlidiidae	<i>Crepis</i>	<i>verticillata</i>	73	91, 93, 95, 103, 106, 120, 121, 144, 153	
		Cleidochasmatidae	<i>Characodoma</i>	<i>laterale</i>	27	92	
		Cribriliidae	<i>Puellina</i>	<i>sp</i>	16	97	
		Cupuladriidae	<i>Cupuladria</i>	<i>guineensis</i>	69	27, 28, 33, 49, 77, 79, 91, 97, 105, 116, 117, 123	
		Epistomiidae	<i>Synnotum</i>	<i>aegyptiacum</i>	65	160	
				<i>pembaense</i>	66	122	
		Flustridae	<i>Retiflustra</i>	<i>cornea</i>	70	78, 82, 110, 111, 127, 136, 150, 159, 160, 161	

Class	Order	Family	Genus	species	Species number			
Gymnolaemata	Cheilostomatida	Hippopodidae	<i>Hippopodina</i>	<i>feegeensis</i>	29	121, 122		
		Hippothoidae	<i>Hippothoa</i>	<i>calciophila</i>	17	95, 103, 119		
		Lanceoporidae	<i>Calypotheca</i>	<i>australis</i>	30	38, 91, 103, 119, 121, 142		
				<i>inaequalis</i>	31	103		
				<i>wasinensis</i>	32	38, 88, 92, 93, 95, 122, 126		
				<i>n.sp</i>	33	152		
				<i>Cigclisula</i>	34	38, 69, 78, 91, 95, 126, 136, 144, 160		
				Lepraliellidae	<i>Celleporaria</i>	<i>aperta</i>	19	119
						<i>discoidea</i>	20	85, 91, 92, 94, 97
						<i>fusca</i>	21	38, 103, 113, 121
						<i>granulosa</i>	22	38
						<i>oculata</i>	23	38, 40, 48, 69, 84, 88, 119, 121, 122, 136, 141, 144
		<i>sibogae</i>	24			38, 40, 46, 84, 85, 92, 95, 103, 126, 127, 160		
				<i>sp</i>	25	121		
				<i>tridenticulata</i>	26	144		
		Margarettidae	<i>Margaretta</i>	<i>tenuis</i>	35	148		
		Membraniporidae	<i>Biflustra</i>	<i>savartii</i>	55	38, 57, 91, 119		
				<i>Conopeum</i>	56	78		
		Pasytheidae	<i>Gen. nov.</i>	<i>n. sp</i>	18	69, 95, 103, 106, 119, 122, 144, 153		
		Petraliellidae	<i>Hippopetraliella</i>	<i>dorsiporosa</i>	36	40, 95, 97		
				<i>Mucropetraliella</i>	37	38, 48, 95, 103, 132, 136		
				<i>serrata</i>	38	95		
				<i>Petraliella</i>	39	81		
Phidoloporidae	<i>Iodictyum</i>	<i>gibberosum</i>	7	121, 149				
		<i>Reteporella</i>	8	40, 46, 89, 103, 148				
		<i>granulata</i>	9	149				
		<i>Rhynchozoon</i>	10	38, 78, 97, 142, 152, 160				
		<i>incrassatum</i>	11	67, 92				

Class	Order	Family	Genus	species	Species number	
			<i>Schedocleidochasma</i>	<i>porcellaniforme</i>	12	91
Gymnolaemata	Cheilostomatida	Phidoloporidae	<i>Triphylozoon</i>	<i>benemunitum</i>	13	36, 38, 39, 40, 46, 48, 50, 52, 67, 69, 71, 81, 92, 93, 95, 97, 121, 129, 132, 136, 137, 140, 141, 142, 154, 156, 158
		(cont.)		<i>hirsutum</i>	14	148
				<i>tubulatum</i>	15	121
		Porinidae	<i>Porina</i>	<i>longicollis</i>	40	69
				<i>vertebralis</i>	41	38, 40, 42, 57, 67, 87, 144
		Quadricellariidae	<i>Nellia</i>	<i>tenella</i>	71	27, 36, 38, 40, 54, 67, 69, 73, 95, 103, 116, 119, 120, 126, 144, 153
		Schizoporellidae	<i>Schizobrachiella</i>	<i>subhexagona</i>	42	119
			<i>Stylopoma</i>	<i>duboisii</i>	43	103
			<i>Thornelya</i>	<i>perarmata</i>	44	36
		Selenariidae	<i>Selenaria</i>	<i>punctata</i>	74	27, 47, 49, 97
		Smittinidae	<i>Parasmittina</i>	<i>agathae</i>	45	38, 48, 91, 113, 116, 119, 121, 122, 124, 126, 132
				<i>hastingsae</i>	46	91
		Steginoporellidae	<i>Steginoporella</i>	<i>dilatata</i>	75	27, 127, 158
		Thalamoporellidae	<i>Thalamoporella</i>	<i>novaeollandiae</i>	76	38
	Ctenostomatida	Aeverilliidae	<i>Aeverillia</i>	<i>setigera</i>	51	42, 67, 69
		Nolellidae	<i>Nolella</i>	<i>papuensis</i>	47	103
		Vesiculariidae	<i>Amathia</i>	<i>crispa</i>	48	26, 46, 91, 95, 160
				<i>vermetiformis</i>	49	69
			<i>Vesicularia</i>	<i>papuensis</i>	50	72, 73
		Walkeridae	<i>Walkeria</i>	<i>atlantica</i>	52	27
Stenolaemata	Cyclostomatida	Crisiidae	<i>Crisia</i>	<i>elongata</i>	1	69, 95, 122, 148, 153
		Terviidae	<i>Nevianipora</i>	<i>pulcherrima</i>	77	95
		Tubuliporidae	<i>Idmidronea</i>	<i>sp</i>	78	95

**Appendix 4.** List of coral species and sites in which these species are found.

Class	Order	Family	Genus	Species	Species number	Site
Anthozoa	Actiniaria	Actiniaria	<i>Anemone</i>	<i>sp</i>	84	4, 9, 13, 15, 20, 24, 26, 27, 28, 29, 31, 33, 41, 47, 49, 51, 52, 55, 56, 68, 76, 83, 85, 93, 94, 113, 157
	Alcyonacea	Anthothelidae	<i>Alertigorgia</i>	<i>orientalis</i>	92	13, 20
			<i>Semperina</i>	<i>brunnae</i>	93	146
			<i>Solenocaulon</i>	<i>cf. sterroclonium</i>	94	21, 26, 27, 92, 111
				<i>cf. tubulosum</i>	95	20, 84
				<i>sp A</i>	96	15
				<i>sp B</i>	97	53, 67, 73, 80, 101, 110, 131
		Clavulariidae	<i>Carijoa</i>	<i>sp A</i>	98	97, 136
				<i>sp B</i>	99	88
		Ellisellidae	<i>Ctenocella</i>	<i>pectinata</i>	100	52
			<i>(Ctenocella)</i>			
			<i>Junceella</i>	<i>sp A</i>	101	44, 107
			<i>(Dichotella)</i>			
			<i>Junceella</i>	<i>fragilis</i>	102	81, 107
			<i>(Junceella)</i>			
				<i>sp B</i>	104	97
				<i>sp C</i>	105	88
		Gorgoniidae	<i>Genus A</i>	<i>sp A</i>	106	53
			<i>Pseudopterogorgia</i>		107	52
				<i>sp B</i>	108	69
		Melithaeidae	<i>Acabaria</i>	<i>gracillima</i>	109	67, 95, 111, 146, 156
				<i>serrata</i>	110	81, 143, 146, 147, 154, 156
				<i>sp B</i>	111	38, 78
				<i>sp C</i>	112	139, 142, 144, 159
				<i>sp D</i>	113	78

Class	Order	Family	Genus	Species	Species number	Site
				<i>sp E</i>	114	129, 139, 141, 144, 147
				<i>sp F</i>	115	137
				<i>sp G</i>	116	129
				<i>sp H</i>	117	154
				<i>sp I</i>	118	129
				<i>sp J</i>	119	78, 139, 156, 159
				<i>sp K</i>	120	146, 154
				<i>sp L</i>	121	149, 159
			<i>Mopsella</i>	<i>sp B</i>	122	144, 147
				<i>sp C</i>	123	97, 136, 144, 159
				<i>sp D</i>	124	20
		Nephtheidae	<i>Dendronephthya</i>	<i>heterocyathus</i>	126	81, 147, 148, 154, 155
				<i>sp B</i>	127	2, 13, 15, 67, 73, 84, 89, 91, 92, 97, 117, 129, 132, 139, 140, 142, 143, 144, 145, 147
				<i>sp C</i>	128	7, 13, 20, 36, 49, 82, 84, 92, 97, 126, 129, 137, 139, 140, 142, 148, 157
			<i>Neospongodes</i>	<i>sp A</i>	129	7, 15, 40, 81, 95, 97, 137, 139, 142, 146, 154
				<i>sp B</i>	130	40
		Nidalliidae	<i>Nephtyigorgia</i>	<i>sp A</i>	131	13
		Paralcyoniidae	<i>Studeriotis</i>		132	10, 26, 49, 92, 101
				<i>sp C</i>	133	106
		Plexauridae	<i>Echinogorgia</i>	<i>sp A</i>	134	81, 148, 159
				<i>sp B</i>	135	160
				<i>sp C</i>	136	81
				<i>sp D</i>	137	91, 92
				<i>sp E</i>	138	7, 81
				<i>sp F</i>	139	52, 95
				<i>sp G</i>	140	136
				<i>sp H</i>	141	136

Class	Order	Family	Genus	Species	Species number	Site
				<i>sp I</i>	142	97
				<i>sp J</i>	143	53
				<i>sp K</i>	144	92,
				<i>sp L</i>	145	81
				<i>sp M</i>	146	140
				<i>sp N</i>	147	52
			<i>Echinomuricea</i>	<i>sp A</i>	149	22, 52, 95
			<i>Euplexaura</i>	<i>rectangularis</i>	150	97, 142, 159
				<i>sp A</i>	151	92
				<i>sp C</i>	152	92, 119
			<i>Plexaura</i>	<i>attenuata</i>	153	57, 156
		Primnoidae	<i>Plumarella</i>	<i>penna</i>	154	92
		Subergorgiidae	<i>Subergorgia</i>	<i>suberosa</i>	155	52, 67, 130
	Antipatharia	Antipatharia	<i>Cirripathes</i>	<i>sp A</i>	83	88
	Pennatulacea	Pteroeididae	<i>Pteroeides</i>		156	36
				<i>sp B</i>	157	4, 15, 16, 137
		Veretillidae	<i>Cavernularia</i>	<i>sp A</i>	158	16, 24, 30, 31, 49, 73, 84
				<i>sp B</i>	159	35, 73
		Virgulariidae	<i>Virgularia</i>	<i>reinwardti</i>	160	2, 27, 31, 56
	Scleractinia	Caryophyllidae	<i>Heterocyathus</i>	<i>sulcatus</i>	161	47
			<i>Paracyathus</i>	<i>sp</i>	163	83
			<i>Paracyathus2</i>	<i>cf porphyteus</i>	162	141, 149
		Dendrophyllidae	<i>Balanophyllia</i>	<i>sp</i>	164	141, 147, 156
			<i>Dendrophyllia</i>		165	83, 103, 141
			<i>Duncanopsammia</i>	<i>axifuga</i>	85	88
			<i>Tubastrea</i>	<i>sp A</i>	87	147
			<i>Turbinaria</i>		86	40, 44
		Flabellidae	<i>Paracyathus1</i>	<i>cf porphyteus</i>	166	149

Class	Order	Family	Genus	Species	Species number	Site
			<i>Plactotrochus</i>	<i>laevis</i>	167	2, 20, 21, 26, 28, 31, 35, 36, 39, 41, 46, 56, 77, 80, 82, 83, 86
			<i>Truncatoflabellum</i>	<i>aculeatum</i>	168	13, 47, 56, 80, 82, 86
				<i>angiostomom</i>	169	13, 27, 28, 39, 83
				<i>sp</i>	170	26, 42, 46, 85
				<i>veroni</i>	171	13, 20, 21, 28, 36, 91, 101
		Fungiidae	<i>Fungia</i>	<i>fungites</i>	88	46
		Poritidae	<i>Goniopora</i>	<i>sp A</i>	89	40, 42, 142
		Rhizangiidae	<i>aff Oulangia</i>	<i>sp</i>	173	83
			<i>Calicia</i>	<i>australiensis</i>	174	141
			<i>Oulangia</i>	<i>stokesiana</i>	175	69, 69
		Scleractinia	<i>Solitary hard coral</i>	<i>sp</i>	90	27, 52, 160
	Zoantharia	Zoantharia	<i>Zoantharia</i>		91	32, 33, 52, 55

**Appendix 5.** List of polychaete species and sites in which these species were found.

Class	Order	Family	Genus	Species	Species number	Site	
Polychaeta	Amphinomida	Amphinomidae	<i>Amphinomidae</i>	<i>sp a</i>	422	50, 112	
		Euphrosinidae	<i>Euphrosine</i>	<i>sp 1</i>	445	139, 148	
	Capitellida	Capitellidae	<i>Capitellidae</i>	<i>sp A</i>	427	2, 5, 11, 15, 70, 75, 77, 91, 121, 155	
		Chaetopteridae	<i>Spirochaetopterus</i>	<i>sp 1</i>	428	99, 128	
		Maldanidae	<i>Maldanidae</i>			462	24
					<i>sp 3</i>	463	116
					<i>sp 4</i>	464	89, 125
					<i>sp 5</i>	465	90, 114
		<i>sp 6</i>	466	102			
	Chaetoptera	Chaetopteridae	<i>Mesochaetopterus</i>	<i>sp 1</i>	429	24	
	Cirratulida	Cirratulidae	<i>Cirratulus</i>		432	155	
	Eunicida	Arabellidae	<i>Arabellidae</i>	<i>sp 6</i>	426	94	
				<i>sp 5</i>	433	28, 40, 46, 55, 76, 78, 81, 97, 121, 136, 148, 152, 153, 155, 161	
		Eunicidae	<i>Eunicidae</i>	<i>sp 12</i>	434	2, 7, 84	
				<i>sp 17</i>	435	139	
				<i>sp 19</i>	436	114, 148	
				<i>sp 22</i>	437	155	
				<i>sp 16</i>	439	144, 154, 155, 156	
				<i>sp 23</i>	440	154, 155, 159	
				<i>sp 18</i>	441	78, 139	
				<i>sp 20</i>	442	150	
				<i>sp 21</i>	443	155	
			<i>Nematoneris</i>	<i>unicornis</i>	444	66, 155	
Lumbrineridae	<i>Lumbrineridae</i>	<i>sp 1</i>	456	5, 30, 145			
		<i>sp 2</i>	457	3			
		<i>sp 4</i>	458	2			

Class	Order	Family	Genus	Species	Species number	Site
				sp 5	459	72, 99, 110, 116, 121, 139, 143, 155
		Lysaretidae	<i>Lysaretidae</i>	sp	460	141
		Onuphidae	<i>Onuphidae</i>	sp 1	471	94, 120, 145
				sp 4	472	20, 28, 110
				sp 5	473	14, 40, 116, 119, 162
				sp 6	474	33, 40, 46, 63, 70, 76
				sp 7	475	16, 18, 117
				sp 8	476	102
	Flabelligerida	Flabelligeridae	<i>Flabelligeridae</i>	sp	446	5, 11, 16, 17, 23, 24, 61, 63, 70, 102, 115, 131, 132, 136, 145, 148, 152, 154, 155, 162
	Magelonida	Magelonidae	<i>Magelonidae</i>		461	64
	Opheliida	Ophellidae	<i>Armandia</i>	sp 1	477	39, 47, 110, 153, 155
			<i>Ophelina</i>		478	39, 51, 61, 79, 94, 99, 102, 114, 121, 132, 133, 152
				sp 2	479	79, 89
	Phyllodocida	Aphroditidae	<i>Aphroditidae</i>	sp 1	423	40, 103, 128
		Arabellidae	<i>Arabellidae</i>	sp 4	424	102, 155
				sp 5	425	75, 94, 114
		Chrysopetalidae	<i>Chrysopetalidae</i>	sp 2	430	28, 154
		Cirratulidae	<i>Cirraformia</i>	sp 1	431	121
		Glyceridae	<i>Gycera</i>	sp 3	447	123
				sp 1	448	11, 22, 26, 36, 42, 80, 82, 84, 99, 109, 112, 113, 119, 124, 137, 155
		Goniadidae	<i>Goniada</i>	sp 3	449	22
				sp 2	450	144
				sp 1	451	51, 56, 57, 80, 94, 102, 110, 113, 120
		Hesionidae	<i>Hesionidae</i>		452	139, 144
				sp 2	453	123, 130
				sp 5	454	42
				sp 7	455	112, 144

Class	Order	Family	Genus	Species	Species number	Site
		Nephtyidae	<i>Micronephtys</i>	<i>sp 1</i>	467	24, 84
			<i>Nephtyidae</i>		468	1, 2, 3, 6, 7, 75, 79, 99, 110, 112, 126, 132
		Nereididae	<i>Nereididae</i>	<i>sp 10</i>	469	28, 38
				<i>sp 11</i>	470	40, 48, 111, 155, 159
		Pholoididae	<i>Pholoides</i>	<i>sp 2</i>	481	99, 110, 120
		Pilargiidae	<i>Pilargiidae</i>	<i>sp 5</i>	482	119
		Polynoidae	<i>Polynoidae</i>	<i>sp 18</i>	484	137
				<i>sp 17</i>	485	139, 153, 155, 156
				<i>sp 16</i>	486	130, 136
				<i>sp 14</i>	487	7, 78
				<i>sp 13</i>	488	130, 155
				<i>sp 11</i>	489	46, 136, 147, 152
				<i>sp 10</i>	490	38
				<i>sp 8</i>	491	162
				<i>sp 4</i>	492	70
		Sigalionidae	<i>Sigalionidae</i>	<i>sp 1</i>	504	1, 2, 10, 15, 16, 24, 61, 63, 69, 79, 89, 116, 131, 135, 136
				<i>sp 8</i>	505	7, 10, 33, 42, 51, 56, 67, 82, 118, 128, 159
		Syllidae	<i>Syllid</i>	<i>sp 1</i>	511	146, 154
			<i>Syllinae</i>		512	139
			<i>Trypanosyllis</i>	<i>sp 2</i>	513	81
	Sabellida	Sabellariidae	<i>Sabellariidae</i>	<i>sp 3</i>	493	38, 103
				<i>sp 4</i>	494	41, 83, 152
				<i>sp 5</i>	495	9
		Sabellidae	<i>Sabellidae</i>	<i>sp 1</i>	496	15, 51
				<i>sp 2</i>	497	40
				<i>sp 3</i>	498	128
				<i>sp 8</i>	499	75
				<i>sp 13</i>	500	130

Class	Order	Family	Genus	Species	Species number	Site
				<i>sp 14</i>	501	36, 67, 136, 137
				<i>sp 15</i>	502	23, 24
		Serpulidae	<i>Serpulidae</i>	<i>sp 5</i>	503	159
	Spionida	Poecilochaetidae	<i>Poecilochaetidae</i>	<i>sp 4</i>	483	10, 45
		Spionidae	<i>Dispionospio</i>	<i>sp 1</i>	509	89
			<i>Spionospio</i>		507	75, 99
				<i>sp 2</i>	508	70
	Sternapsida	Sternapsidae	<i>Sternapsidae</i>		510	132
	Terebellida	Ampharetidae	<i>Ampharetinae</i>		419	24
				<i>sp 3</i>	420	3, 24, 72, 73, 144
				<i>sp 4</i>	421	40, 46, 161
		Terebellidae	<i>Terebellidae</i>	<i>sp B</i>	514	12, 17, 24, 30, 79
				<i>sp C</i>	515	11, 50, 93
				<i>sp E</i>	516	65, 69, 155
				<i>sp H</i>	517	75
				<i>sp J</i>	518	50, 144, 159
		Trichobranchidae	<i>Terebellidees</i>	<i>sp 1</i>	519	9, 10, 11, 12, 16, 50, 51, 55, 70, 71, 75
	unknown 2	Pectinaridae	<i>Pectinaridae</i>		480	83
	unknown 3	Sipunculidae	<i>Sipunculidae</i>	<i>sp a</i>	506	56, 128, 135, 152

**Appendix 6.** List of enchinoderm species and sites in which these species were found.

<b>Class</b>	<b>Order</b>	<b>Family</b>	<b>Genus</b>	<b>Species</b>	<b>Site</b>		
Crinoidea	Comatulida	Antedonidae	<i>Dorometras</i>	<i>parvicirra</i>	52, 144		
			Colobometridae	<i>Oligometra</i>	<i>carpenteri</i>	13, 52, 81, 95, 97	
				<i>Oligometrides</i>		136	
		Comasteridae	<i>Capillaster</i>	<i>multiradiatus</i>	20, 67, 77, 83, 88, 110, 162		
			<i>cf Capillaster</i>	sp	130		
			<i>Comanthina</i>	<i>variabilis</i>	40, 136, 139, 142, 153		
			<i>Comanthus</i>	<i>briareus</i>	139, 147, 148		
			<i>Comatula</i>	<i>pectinata</i>	20, 26, 27, 29, 33, 38, 40, 42, 44, 46, 72, 78, 83, 88, 95, 97, 98, 126, 138, 139, 140, 142, 144, 150, 151, 155, 159, 160, 161		
				<i>purpurea</i>	20, 27, 28, 33, 36, 129, 137, 139, 147, 157		
				<i>rotalaria</i>	13, 20, 26, 27, 28, 29, 33, 46, 67, 73, 150		
				<i>cf rotalaria</i>	42, 95, 96, 151		
				Himerometridae	<i>Amphimetra</i>	<i>tessellata</i>	20, 48, 52, 95, 97, 136
					<i>cf Himerometra</i>	sp	20, 95, 138
		<i>Heterometra</i>	<i>crenulata</i>		28, 29, 95, 106, 110, 136, 139, 144, 159		
			sp	95			
		Mariametridae	<i>cf Dichrometra</i>		28		
		Zygommetridae	<i>Zygommetra</i>	<i>comata</i>	140, 155, 157		
				<i>elegans</i>	13, 46, 136		
				<i>microdiscus</i>	26, 28, 29, 33, 82		
				<i>punctata</i>	138, 139		
Echinoidea	Cidaroida	Cidaridae	<i>Prionocidaris</i>	<i>bispinosa</i>	140, 142, 159, 160		
	Clypeasteroida	Laganidae	<i>Peronella</i>	<i>lesueuri</i>	15, 16, 20, 21, 22, 55, 69, 90		
				<i>cf orbicularis</i>	13, 14, 15, 20, 21, 45, 48, 49, 104, 108, 114, 131		
	Spatangoida	Brissidae	<i>Brissopsis</i>	<i>luzonica</i>	17, 21, 22, 24, 64, 70, 120, 121, 127		
		Indet.	<i>Heart Urchin</i>	<i>very small, fragmented</i>	49		

Class	Order	Family	Genus	Species	Site
		Loveniidae	<i>cf Breynia</i>	<i>sp</i>	121, 127
			<i>Lovenia</i>	<i>elongata</i>	51, 55, 112
		Schizasteridae	<i>Moira</i>	<i>lethe</i>	100
	Temnopleurida	Temnopleuridae	<i>Salmaciella</i>	<i>dussmiera</i>	20, 29, 49, 55
			<i>Temnopleurus</i>	<i>alaxandri</i>	46, 49, 56, 57, 67, 81
				<i>toreumaticus</i>	1, 4, 5, 9, 11, 12, 13, 14, 15, 16, 17, 18, 20, 21, 22, 23, 24, 30, 38, 49, 56, 82
				<i>sp</i>	128, 160
			<i>Temnotrema</i>	<i>bothryoides</i>	46, 157
				<i>sp</i>	144
Holothurioidea	Apodida	Synaptidae	<i>Synaptula</i>	<i>recta</i>	66
				<i>sp</i>	81
	Aspidochirotida	Holothuriidae	<i>Holothuria</i>		20, 38, 97
				<i>modesta</i>	38
	Dendrochirotida	Cucumariidae	<i>Hemithyone</i>	<i>semperi</i>	38
			<i>Leptopentacta</i>	<i>grisea</i>	73
			<i>Loisettea</i>	<i>amphictena</i>	27
			<i>Neocucumella</i>	<i>sp aff fracta</i>	128
			<i>Pentacta</i>	<i>anceps</i>	28
				<i>quadrangularis</i>	50
			<i>Thorsonia</i>	<i>adversaria</i>	102
		Phylloporidae	<i>Actinocucumis</i>	<i>typicus</i>	144
				<i>cf typicus</i>	20, 45
			<i>Phylloporus</i>	<i>holothuriodes</i>	20
	Molpadiida	Caudinidae	<i>Acaudina</i>	<i>cf delicata</i>	65, 68, 69, 108, 109
		Molpadiidae	<i>Molpadia</i>	<i>altimensis</i>	69
Stelleroidea	Asteroidea	Asteroidea	<i>Craspidaster</i>	<i>hesperus</i>	73
	Ophiurida	Amphiuridae	<i>Amphioplus</i>	<i>didymus</i>	120
				<i>intermedius</i>	143
				<i>depressus</i>	5, 11, 63, 67, 78, 84, 91, 120, 121, 122

Class	Order	Family	Genus	Species	Site
				<i>hastatus</i>	15
				<i>laevis</i>	11, 12, 16, 17, 145
				<i>sp aff. laevis</i>	119
				<i>repositus</i>	139, 140, 155
				<i>sp</i>	15, 40, 75, 93, 114, 120, 139, 139
			<i>Amphipholis</i>	<i>squamata</i>	154
			<i>Amphiura</i>	<i>constricta</i>	38, 78, 160
				<i>leucaspis</i>	36, 78
				<i>cf luetkeni</i>	146
				<i>aff microsoma</i>	159
				<i>phrixa</i>	2, 50
				<i>sp 1</i>	144
				<i>sp 2</i>	155
				<i>sp</i>	81, 92, 155
			<i>cf Amphiodia</i>		54
			<i>Dongaloplus</i>		16, 21, 31, 70
			<i>Dougaloplus</i>	<i>echinatus</i>	21, 127, 131, 143
			<i>Ophiocentrus</i>	<i>dilatus</i>	154
			<i>Ophiocentrus</i>	<i>sp</i>	10, 93, 127
		Ophiacanthidae	<i>Ophiacantha</i>	<i>indica</i>	67, 78, 84, 139, 144, 154, 155
		Ophiactidae	<i>Ophiactis</i>	<i>luteomaculata</i>	33
				<i>cf maculosa</i>	9, 91, 155
				<i>savignyi</i>	66, 78, 139, 146, 154, 155
		Ophiodermatidae	<i>Ophiarachnella</i>	<i>infernalis</i>	136
				<i>sphenisci</i>	144, 159
			<i>Ophiochasma</i>	<i>stellatum</i>	28, 42
			<i>Ophioconis</i>	<i>cincta</i>	154
		Ophionereididae	<i>Ophionereis</i>	<i>dubia</i>	50, 93, 103, 114, 120, 123, 127
				<i>intermedia</i>	138, 140, 146, 155

Class	Order	Family	Genus	Species	Site
			<i>Ophioneries</i>	<i>semoni</i>	38, 136, 139, 148, 155, 156, 159, 160
		Ophiotrichidae	<i>Macrophiothrix</i>	<i>megapoma</i>	78, 88, 103, 107, 128, 129, 130, 137, 139, 147, 154, 155, 159, 160
				<i>sp</i>	136
			<i>Ophiogymna</i>	<i>elegans</i>	72, 94, 97
			<i>Ophiomaza</i>	<i>cacaotica</i>	20, 28, 29, 88, 139
			<i>Ophiopsaium</i>	<i>semperi</i>	13, 21
			<i>Ophiothela</i>	<i>danae</i>	144, 146
			<i>Ophiothrix</i>	<i>armata</i>	78, 127, 142
				<i>martensi</i>	46, 139
				<i>smaragdina</i>	66, 139
				<i>lineocaerulea</i>	20, 144
				<i>melanosticta</i>	20, 28, 33, 46, 83, 142, 144, 150, 161
				<i>ciliaris</i>	38, 52, 66, 81, 95, 120, 127, 130, 144, 146, 153, 154, 155, 159
				<i>plana</i>	20, 52, 139
				<i>cf plana</i>	78, 138
				<i>aff plana</i>	81
				<i>spp</i>	67, 95, 139, 154, 155
		Ophiuridae	<i>Dictenophiura</i>	<i>stellata</i>	49, 55, 75, 79, 93, 103, 112
			<i>Ophiura</i>	<i>kinbergi</i>	5, 14, 17, 18, 19, 20, 21, 23, 24, 26, 30, 35, 44, 47
	Paxillosida	Astropectinidae	<i>Astropecten</i>	<i>granulatus</i>	3, 35, 57, 79, 108, 109, 113, 132
				<i>monacanthus</i>	96, 100
				<i>zebra</i>	20
				<i>sp</i>	4, 9, 35, 108
	Phrynophirida	Euryalidae	<i>Euryale</i>	<i>aspera</i>	20, 38, 144, 159, 160
	Platyasterida	Luidiidae	<i>Lucidia</i>	<i>hardwicki</i>	4, 10, 20, 21, 22, 29
	Spinulosa	Achinasterinidae	<i>Echinaster</i>	<i>varicolor</i>	36
		Asterinidae	<i>Asterina</i>	<i>sarasina</i>	148
			<i>Nepanthia</i>	<i>belcheri</i>	27, 28, 84, 97, 139, 148, 154, 155
	Valvatida	Goniasteridae	<i>Goniodicaster</i>	<i>rugosus</i>	67

Class	Order	Family	Genus	Species	Site
			<i>Goniodiscaster</i>	<i>acanthodes</i>	46
			<i>Iconaster</i>	<i>longimanus</i>	103
			<i>Stellaster</i>	<i>equestris</i>	13, 20, 28, 29, 46, 56, 67, 82
				<i>princeps</i>	13, 20, 28, 126
		Oreasteridae	<i>Gymnanthenea</i>	<i>globigera</i>	28, 46, 82, 147

**Appendix 7.** List of mollusc species and sites in which species were found.

<b>Class</b>	<b>Order</b>	<b>Family</b>	<b>Genus</b>	<b>Species</b>	<b>species number</b>	<b>Site</b>		
Bivalves	Arcoida	Arcidae	<i>Anadara</i>	<i>granosa</i>	778	30, 64		
				<i>Arcar?</i>	<i>cf. congenita</i>	776	148	
					<i>sp.</i>	777	97, 160	
					<i>avellana</i>	779	141, 147, 148, 154	
					<i>Barbatia</i>	<i>helblingi</i>	780	38, 124, 144
					<i>Sheldonella</i>	<i>lateralis</i>	781	52, 152, 155
					<i>Trisidos</i>	<i>tortuosa</i>	782	92, 93, 152, 159, 161
				Glycymerididae	<i>Glycymeris</i>	<i>crebreliratus</i>	804	46, 56, 82
					<i>Melaxinaea</i>	<i>vitrea</i>	805	75, 76
				Limopsidae	<i>Limopsis</i>	<i>sp.</i>	808	119
		Limoida	Limidae	<i>Limatula</i>	<i>cf. austrina</i>	807	144, 155, 161	
		Myoida	Corbulidae	<i>Corbula</i>	<i>sp.</i>	794	18, 19, 24, 25, 30, 31, 45, 52, 60, 63, 92, 94, 142, 144	
					<i>macgillivrayi</i>	795	15, 21, 22, 41, 44, 52, 103, 107, 139	
			Gastrochaenidae	<i>Gastrochaena</i>	<i>cuneiformis</i>	803	143	
		Mytiloida	Mytilidae	<i>Lithophaga</i>	<i>teres</i>	818	139, 147, 154	
					<i>Modiolus</i>	<i>cf. barbatus</i>	819	38, 78, 97, 161
						<i>cf. elongatus</i>	820	70
						<i>cf. ligneus</i>	821	92
						<i>cf. philippinarum</i>	822	125, 131
				<i>Musculus</i>	<i>cumingiana</i>	823	3	
		Nuculoida	Nuculanidae	<i>Nuculana</i>	<i>dubia</i>	824	13, 14, 48, 70, 89, 94, 102, 145	
					<i>sp.</i>	825	18, 24, 30, 31, 60, 71, 135	
			Nuculidae	<i>Nucula</i>	<i>superba</i>	826	24, 75, 103, 116	
	Ostreoida	Ostreidae	<i>Dendostrea</i>	<i>folium</i>	828	116		
				<i>Saccostrea</i>	<i>cf. cucullata</i>	829	154	
			Pectinidae	<i>Annachlamys</i>	<i>flabellata</i>	830	36, 46, 56, 115, 117, 136	

Class	Order	Family	Genus	Species	species number	Site
			<i>Chlamys</i>	<i>curtisiana</i>	831	38, 67, 144, 161
			<i>Complicachlamys</i>	<i>dringi</i>	832	129
			<i>Pecten</i>	<i>pyxidatus</i>	833	15, 20, 21
			<i>Volachlamys</i>	<i>singaporina</i>	834	38, 53, 57
		Placunidae	<i>Placuna</i>	<i>lincolnii</i>	836	140
		Plicatulidae	<i>Plicatula</i>	<i>essingtonensis</i>	838	78, 141, 152, 160, 161
		Propeamussiidae	<i>Amusium</i>	<i>pleuronectes</i>	839	15, 21
		Spondylidae	<i>Spondylus</i>	<i>nicobaricus</i>	853	36, 46
	Pholadomyoidea	Myochamidae	<i>Myadora</i>	<i>sp. 1</i>	816	10, 134
				<i>sp. 2</i>	817	144
	Pterioidea	Isognomonidae	<i>Isognomon</i>	<i>perna</i>	806	139, 147, 148, 154
		Malleidae	<i>Malleus</i>	<i>albus</i>	813	141, 148
				<i>daemonicus</i>	814	139
			<i>Vulsella</i>	<i>vulsella</i>	815	136
		Pteriidae	<i>Pteria</i>	<i>sp.</i>	842	13
	Solemyoidea	Solemyidae	<i>Solemya</i>		847	90
	Veneroidea	Cardiidae	<i>Acrosterigma</i>	<i>dampierense</i>	784	67
			<i>Fragum</i>	<i>hemicardium</i>	785	46
			<i>Maoricardium</i>	<i>pseudolatum</i>	786	159
			<i>Vepricardium</i>	<i>multispinosum</i>	787	49
		Carditidae	<i>Cardita</i>	<i>crassicosta</i>	788	136, 155
				<i>incrassata</i>	789	82, 132
				<i>marmorea</i>	790	152
		Chamidae	<i>Chama</i>	<i>fibula</i>	791	52, 147, 149, 154
				<i>pacifica</i>	792	148
				<i>pulchella</i>	793	129
		Cultellidae	<i>Ensiculus</i>	<i>cultellus</i>	796	11, 50, 97, 122
			<i>Siliqua</i>	<i>sp.</i>	797	61, 63

Class	Order	Family	Genus	Species	species number	Site
		Galeommatidae	<i>Ehippodonta</i>	<i>n. sp.</i>	801	155
			<i>Scintilla</i>	<i>sp.</i>	802	155
		Lucinidae	<i>Lucina</i>		809	84, 103
		Mactridae	<i>Lutraria</i>		810	25, 31
			<i>Mactra</i>	<i>abbreviata</i>	811	16
				<i>ovalina</i>	812	122
		Psammobiidae	<i>Gari</i>	<i>anomala</i>	840	56
				<i>pallida</i>	841	99, 131, 135, 143
		Semelidae	<i>Semele</i>	<i>sp.</i>	844	67, 78, 140, 161
		Solecurtidae	<i>Solecurtis</i>	<i>divaricatus</i>	846	136
		Solenidae	<i>Azorinus</i>	<i>sp.</i>	849	115
			<i>Siliqua</i>		850	125, 134, 135
			<i>Sinonovacula</i>	<i>constricta</i>	848	131
					851	132
			<i>Solen</i>	<i>grandis</i>	852	107
		Tellinidae	<i>Macoma</i>	<i>consociata</i>	854	14, 24, 49, 61, 75, 83, 143, 152
			<i>Tellina</i>	<i>assimilis</i>	855	12
				<i>australis</i>	856	125, 135
				<i>cf. perna</i>	857	69
				<i>cf. rostrata</i>	858	64
				<i>cf. vernalis</i>	859	103, 150
				<i>minuta</i>	860	14, 94
				<i>perna</i>	861	71
				<i>sp.</i>	862	24, 133, 135
				<i>vernalis</i>	863	83, 119, 140, 143, 152, 162
		Veneridae	<i>Antigona</i>	<i>chemnitzii</i>	867	96, 103
				<i>lamellaris</i>	868	36
			<i>Circe</i>	<i>scripta</i>	869	82

Class	Order	Family	Genus	Species	species number	Site
			<i>Clementia</i>	<i>papyracea</i>	870	30, 125
			<i>Dosinia</i>	<i>amphidesmoides</i>	871	11, 23, 76
				<i>cf. altenai</i>	872	121
				<i>cf. juvenilis</i>	873	143
				<i>exasperata</i>	874	4
				<i>histrion</i>	875	26
				<i>juvenilis</i>	876	46, 94
				<i>sp.</i>	877	12, 90
			<i>Paphia</i>	<i>gallus</i>	878	56, 120
				<i>semirugata</i>	879	67, 82, 84, 99, 120, 121, 122
				<i>undulata</i>	880	11, 18, 30, 64
			<i>Pitar</i>	<i>bullatus</i>	881	5
			<i>Placamen</i>	<i>calophyllum</i>	882	4, 11, 12, 18, 24, 53, 56, 61, 63, 68, 69, 70, 71, 79, 115, 116, 134, 143
				<i>tiara</i>	883	13, 27, 33, 67, 82, 84, 86, 92, 110, 132, 152, 159, 161
			<i>Tawera</i>	<i>laticostata</i>	884	36, 148, 150
Cephalopoda	Octopoda	Octopodidae	<i>Octopus</i>	<i>sp.</i>	827	82
	Sepioidea	Sepioloidiidae	<i>Sepioloidea</i>		845	9, 35
Gastropoda	Archaeogastropoda	Fissurellidae	<i>Diodora</i>	<i>mus</i>	721	159
		Trochidae	<i>Calliostoma</i>	<i>sp. 5</i>	760	32
				<i>sp. 6</i>	761	146
			<i>Euchelus</i>	<i>atratus</i>	762	28, 33
		Turbinidae	<i>Angaria</i>	<i>tyria</i>	763	142
			<i>Liotina</i>	<i>peronii</i>	724	26, 46, 142
	Cephalaspidae	Philinidae	<i>Philine</i>	<i>cf. angasi</i>	835	56, 76
	Mesogastropoda	Architectonicacae	<i>Architectonica</i>	<i>perpectiva</i>	706	18
		Cerithiidae	<i>Cerithium</i>	<i>coralium</i>	711	3, 9, 33, 46, 67, 82, 117, 131
		Cypraeidae	<i>Cypraea</i>	<i>gracilis</i>	716	139, 147

Class	Order	Family	Genus	Species	species number	Site
				<i>subviridis</i>	717	81
				<i>walkeri</i>	718	46
		Epitoniidae	<i>Cirsotrema</i>	<i>kieneri</i>	719	142
		Lamellariidae	<i>Lamellaria</i>	<i>sp. 1</i>	722	146
				<i>sp. 2</i>	723	52
		Naticidae	<i>Natica</i>	<i>fasciata</i>	746	19, 24, 30
				<i>lineata</i>	747	54
			<i>Polinices</i>	<i>didyma</i>	748	100
		Ranellidae	<i>Biplex</i>	<i>pulchellum</i>	843	15, 20, 21, 22, 27, 28, 140
		Siliquariidae	<i>Tenagodus</i>	<i>anguinus</i>	751	78
		Strombidae	<i>Strombus</i>	<i>campbelli</i>	752	42, 46, 55, 56, 82
		Triphoridae	<i>Tetraphora</i>	<i>aff. granifera</i>	759	44
			<i>Viriola</i>	<i>aff. corrugata</i>	758	126
		Triviidae	<i>Trivia</i>	<i>oryza</i>	864	7, 50
				<i>globosa</i>	865	84
		Turritellidae	<i>Turritella</i>	<i>sp.</i>	773	29
				<i>terebra</i>	866	4, 5
		Xenophoriidae	<i>Xenophora</i>	<i>solarioides</i>	775	22
	Neogastropoda	Buccinidae	<i>Cantharus</i>	<i>fumosus</i>	707	147
				<i>tranquebaricus</i>	708	129, 154
			<i>Nassaria</i>	<i>acuminata</i>	709	13, 15, 20, 22, 36, 39, 48, 49, 50, 59, 76, 79, 83, 84, 85, 91, 96, 97, 99, 126
			<i>Phos</i>	<i>senticosus</i>	710	13, 15, 20, 21, 26, 29, 79
		Columbellidae	<i>Pyrene</i>	<i>fusiformis</i>	712	38
		Conidae	<i>Conus</i>	<i>badius</i>	713	26
				<i>viola</i>	714	147
		Costellariidae	<i>Vexillum</i>	<i>amanda</i>	715	29
		Fasciolaridae	<i>Dolicholatirus</i>	<i>sp.</i>	720	13
		Mitridae	<i>Cancilla</i>	<i>cf. interlirata</i>	725	13

Class	Order	Family	Genus	Species	species number	Site
			<i>Mitra</i>	<i>rosacea</i>	726	76
				<i>varabilis</i>	727	160
			<i>Neocancilla</i>	<i>circula</i>	728	13
			<i>Subcancilla</i>	<i>insculpta</i>	729	1, 2, 4, 9, 29, 49, 50, 55, 76
		Muricidae	<i>Chicoreus</i>	<i>cervicornis</i>	730	28, 67, 80, 82, 85, 159, 160
			<i>Cronia</i>	<i>aurantiaca</i>	731	40
			<i>Favartia</i>	<i>sp.</i>	732	20
			<i>Haustellum</i>	<i>multiplicatus</i>	733	13
			<i>Homolacantha</i>	<i>secunda</i>	734	147
			<i>Latiaxena</i>	<i>sp.</i>	735	78
			<i>Murex</i>	<i>coppingeri</i>	736	76
				<i>macgillivrayi</i>	737	67, 76, 97
			<i>Thais</i>	<i>costatus</i>	738	38
			<i>Typhis</i>	<i>claydoni</i>	739	13
		Nassariidae	<i>Cyllene</i>	<i>royana</i>	740	105
			<i>Nassarius</i>	<i>bicallosus</i>	741	3, 54, 55, 62, 76, 109
				<i>comptus</i>	742	15, 44
				<i>crematus</i>	743	4, 6, 16, 18, 24, 30, 48, 55, 60, 68, 70, 71, 76, 108, 125
				<i>dorsatus</i>	744	19, 25, 31, 60, 69, 125
				<i>pauperus</i>	745	132
		Olividae	<i>Ancilla</i>	<i>elongata</i>	749	101
			<i>Oliva</i>	<i>caldania</i>	750	3, 13, 15, 27, 29, 33, 44, 46, 49, 55, 75, 76, 79, 99, 106, 116, 117, 123
		Terebridae	<i>Duplicaria</i>	<i>australis</i>	753	55
			<i>Inquisitor</i>	<i>cf. solomonensis</i>	754	55
			<i>Terebra</i>	<i>stearnsi</i>	755	29, 55
				<i>trismacaria</i>	756	15, 49
				<i>walkeri</i>	757	60
		Turridae	<i>Drillia</i>	<i>sp.</i>	764	9, 13, 26

Class	Order	Family	Genus	Species	species number	Site
			<i>Inquisitor</i>	<i>cf. solomonensis</i>	765	4, 5, 16
				<i>sp.</i>	766	9
			<i>Lienardia</i>	<i>aff. roseotincta</i>	767	160
			<i>Spendrillia</i>	<i>aff. dampieri</i>	768	15
				<i>cf. dampieri</i>	769	55,
				<i>sp.</i>	770	75
			<i>Tomopleura</i>		771	35
			<i>Turricula</i>	<i>nelliae</i>	772	2, 3, 5, 13, 15, 24, 29, 30, 31, 33, 49, 60
		Volutidae	<i>Amoria</i>	<i>turneri</i>	774	159, 160
	Notaspidae	Pleurobranchidae	<i>Euselenops</i>	<i>luniceps</i>	837	24
	Nudibranchia	Arminidae	<i>Armina</i>	<i>sp.</i>	783	24
		Chromodorididae	<i>Glossodoris</i>	<i>atromarginata</i>	704	146
		Dorididae	<i>Jorunna</i>	<i>funnebris</i>	705	156
Scaphopoda	Scaphopoda	Dentaliidae	<i>Dentalium</i>	<i>longitorsum</i>	798	18, 21, 75, 99
				<i>octangulosum</i>	799	13, 21, 22, 105, 110, 111, 126
				<i>sp.</i>	800	5, 12, 23, 24, 30, 36

**Appendix 8.** List of crustacean species and sites in which these species were found.

Class	Order	Family	Genus	Species	species number	Site				
Branchiopoda	Anostraca	Anostraca	<i>Anostraca</i>	<i>sp</i>	520	27, 76				
Malacostraca	Amphipoda	Amphipoda	<i>Amphipoda</i>		525	2, 7, 9, 13, 15, 16, 17, 20, 22, 26, 32, 33, 35, 36, 38, 40, 42, 44, 45, 46, 48, 51, 52, 53, 56, 57, 66, 67, 77, 79, 80, 81, 82, 83, 84, 85, 92, 97, 98, 103, 104, 106, 107, 110, 111, 112, 113, 114, 119, 120, 121, 122, 126, 127, 128, 129, 130, 131, 132, 13				
					526	0				
		Cumacea	Cumacea	<i>Cumacea</i>		526	0			
		Decapoda	Alpheidae	<i>Alpheidae</i>		640	7, 47, 81, 84, 103, 107, 127, 129, 137, 139, 141, 144, 147, 154, 155, 159			
					<i>Alpheus</i>		641	38, 45, 50, 56, 57, 66, 78, 81, 88, 99, 111, 113, 114, 115, 116, 130, 132, 136, 139, 140, 144, 148		
						<i>cf villosus</i>		642	129, 146	
						<i>cristatus</i>		643	148	
						<i>Athanas</i>	<i>sp</i>	644	32, 57, 66, 139	
						<i>Synalpheus</i>		671	38, 84, 88, 126, 130, 132, 136, 138, 139, 140, 141, 144	
					Calappidae	<i>Calappa</i>	<i>sp c</i>		555	6
							<i>sp a</i>		556	20, 21
							<i>sp b</i>		557	6
							<i>Calappidae</i>	<i>sp</i>	558	101
							<i>Matuta</i>	<i>granulosa</i>	601	98, 101
								<i>lunaris</i>	602	80
								<i>sp a</i>	603	74, 86, 156
		Callianassidae	<i>Callianassa</i>		673	143				
		Corystidae	<i>Corystidae</i>		567	103, 150, 160				
		Diogenidae	<i>Clibanarius</i>		528	33				
				<i>Dardanus</i>	529	46				
	Dorippidae	<i>Dorippidae</i>	<i>sp</i>	569	13, 15, 29, 35, 41, 45, 63, 72, 76					
			<i>Ethusa</i>	<i>izuensis?</i>	571	69				

Class	Order	Family	Genus	Species	species number	Site
		Dromiidae	<i>Dromiidae</i>	<i>sp</i>	570	35, 38, 67, 139, 144
			<i>Petalomera</i>	<i>fukuii</i>	611	46
				<i>sp</i>	612	46
			<i>Sphaerodromia</i>	<i>sp a</i>	629	139
		Galatheidae	<i>Allogalatea</i>	<i>elegans</i>	527	13, 20, 27, 28
			<i>Galathea</i>	<i>consibrina</i>	530	27, 36, 42, 46, 47, 154, 156
			<i>Galatheidae</i>	<i>sp</i>	531	95, 130, 132, 148
		Goneplacidae	<i>Goneplacidae</i>		572	2, 3, 5, 6, 7, 9, 26, 35, 36, 46, 48, 50, 51, 53, 57, 71, 84, 90, 104, 136, 150
			<i>Typhlocarcinops</i>	<i>decrescens?</i>	638	97
		Hippolytidae	<i>Latreutes</i>	<i>sp</i>	647	155
			<i>Lysmata</i>		650	38, 40, 57, 129, 139, 155
			<i>Lysmata?</i>		651	144
		Leucosiidae	<i>Arcania</i>	<i>sp a</i>	554	92
			<i>Ixa</i>	<i>sp b</i>	578	9, 15
			<i>Ixoides</i>	<i>cornutus</i>	579	15, 101, 135
			<i>Leucosia</i>	<i>haematosticta</i>	584	13, 20, 27
				<i>longifrons</i>	585	35
				<i>ocellata</i>	586	9, 13, 15, 20, 51, 75, 101, 121, 122, 132
				<i>sp b</i>	587	2, 3, 4, 6, 9, 48, 52, 53, 54, 57, 76, 127, 135
				<i>sp c</i>	588	118
				<i>sp d</i>	589	12
				<i>sp e</i>	590	26, 120
				<i>sp f</i>	591	90
				<i>sp g</i>	592	14
			<i>Leucosiidae</i>	<i>sp a</i>	593	84
				<i>sp b</i>	594	22
				<i>sp c</i>	595	35
				<i>sp d</i>	596	5, 11, 18, 24, 38, 53, 54, 60, 61, 68, 69, 75

Class	Order	Family	Genus	Species	species number	Site
			<i>Myra</i>	<i>sp a</i>	606	9, 15, 40, 48
			<i>Nursia</i>		608	13, 20, 36, 52, 57, 76, 78, 80, 83, 84, 85, 92, 99, 103, 107, 110, 114, 144, 152, 158, 161
			<i>Randallia</i>		625	20, 22, 35, 57, 75, 99, 101, 119, 120, 122, 161
				<i>sp c</i>	626	7, 20, 42, 82, 84
		Majidae	<i>Acanthophrys</i>	<i>aculeatus</i>	550	7, 38, 88, 136
				<i>harmandi</i>	551	160
			<i>Achaeus</i>	<i>lacertosus</i>	552	13, 35, 38, 58, 82, 101, 103, 159, 161
			<i>Chlorilia</i>	<i>longipes?</i>	566	48
			<i>Doclea</i>	<i>spp a</i>	568	80
			<i>Hyastenus</i>	<i>diacanthus</i>	574	7, 15, 27, 36, 44, 57, 95, 126, 139, 159
				<i>spp.a</i>	575	38, 44, 46, 57, 107, 139, 140, 144, 155, 159
				<i>spp.b</i>	576	88, 139, 140
				<i>spp.c</i>	577	88
			<i>Majidae</i>	<i>sp</i>	599	13, 38, 57, 67, 78, 82, 97, 139, 161
				<i>sp a</i>	600	42, 67, 78, 84, 97
			<i>Micippa</i>	<i>philyra</i>	604	56, 57
				<i>platipes</i>	605	141
			<i>Naxoides</i>	<i>rabillardi</i>	607	160
			<i>Oncinopus</i>	<i>aranea</i>	609	81, 95, 103, 136, 138, 139, 161
			<i>Phalangipes</i>	<i>langipes</i>	613	33, 46, 84, 112
			<i>Schizophrys</i>	<i>dama</i>	628	38, 155
		Ogyrididae	<i>Ogyrides</i>	<i>sp</i>	652	79, 101, 104
		Paguridae	<i>Paguridae</i>		535	1, 2, 4, 5, 9, 13, 15, 20, 26, 28, 29, 30, 41, 46, 49, 52, 53, 54, 55, 56, 57, 60, 62, 67, 75, 76, 83, 98, 99, 101, 119, 144, 147, 158, 161, 162
			<i>Pagurus</i>		536	7
			<i>Pagurus?</i>		537	6
		Palaemonidae	<i>Palaemonella</i>		653	147

Class	Order	Family	Genus	Species	species number	Site
				<i>rotumana</i>	654	32, 38, 88, 130, 139, 148, 154, 155
				<i>rotumana?</i>	655	130
				<i>spinulata</i>	656	139, 148
				<i>spinulata?</i>	657	81, 129, 138
			<i>Palaemonella?</i>	<i>sp</i>	658	141
			<i>Periclimenes</i>		660	44
				<i>elegans</i>	661	44, 107
				<i>grandis</i>	662	44, 57
				<i>incertus</i>	663	81, 130
				<i>toloensis</i>	664	40
				<i>paranobilii</i>	665	148
				<i>spinipes</i>	666	38, 88
				<i>sp nov.</i>	667	156
				<i>tridentatus</i>	668	46
			<i>Urocaridella</i>	<i>urocaridella</i>	672	20
		Palinuridae	<i>Phyllosoma</i>	<i>larva</i>	674	48
		Pandalidae	<i>Chlorotechella</i>	<i>sp a</i>	645	155
			<i>Chlorotocella</i>	<i>gracilis</i>	646	57, 139
		Parthenopidae	<i>Heterocrypta</i>	<i>sp</i>	573	13, 29, 46
			<i>Lambrus</i>	<i>beaumonti</i>	580	33
				<i>sp</i>	582	7, 47, 50, 79
				<i>validus</i>	583	13
			<i>Lambrus?</i>	<i>sp</i>	581	29, 82, 85
			<i>Parthenopidae</i>		610	2, 7, 13, 20, 21, 22, 26, 33, 36, 39, 42, 46, 50, 56, 57, 84, 92, 101, 122
			<i>Tutankhamen?</i>		637	7
		Pasiphaeidae	<i>Leptocheila</i>	<i>sp a</i>	648	30, 45, 50, 78, 104, 106, 112, 113, 119, 122, 126, 128, 135
				<i>gracilis</i>	649	11
			<i>Pasiphaeidae</i>	<i>sp</i>	659	2, 9, 36, 79, 92, 98, 103, 105, 107, 110, 121, 128, 149, 150, 162

Class	Order	Family	Genus	Species	species number	Site
			<i>Processa</i>		669	50, 80
		Penaeidae	Penaeidae	sp	684	2, 3, 4, 11, 12, 16, 18, 19, 20, 24, 25, 27, 30, 31, 33, 38, 44, 45, 46, 48, 50, 56, 60, 61, 64, 65, 67, 68, 74, 76, 78, 85, 86, 88, 91, 92, 94, 97, 98, 100, 103, 104, 107, 132, 135, 155, 159
			<i>Atypopenaeus</i>		678	64, 125
			<i>Metapenaeopsis</i>		679	6, 95, 96, 101
				<i>endeavouri</i>	680	93
			<i>Metapenaeus</i>	sp	681	25, 50
			<i>Parapenaeopsis</i>		682	25, 101
			<i>Parapenaeus</i>		683	102
			<i>Trachypenaeus</i>		685	18
		Pilumnidae	<i>Pilumnus</i>	<i>minutus?</i>	614	69, 85
		Porcellanidae	<i>Pachycheles</i>	<i>johnsoni</i>	532	147
				<i>pisoides</i>	533	7, 38, 44, 52, 121, 144, 155, 159
				<i>sculptus</i>	534	7, 38, 48, 52, 88, 139, 155, 159
			<i>Petrolisthes</i>	sp	538	9, 38, 69, 78, 84, 132, 140
				<i>cf elegans</i>	539	145
				<i>decacanthus</i>	540	81, 126, 144
				<i>heterochrous</i>	541	103, 110, 139, 141, 147, 149, 154, 156, 160
				<i>tomentosus</i>	542	130
			<i>Polyonyx</i>	sp	543	154
		Porcellanidae			544	15, 17, 36
				sp b	545	10, 16, 22, 51, 84, 144, 161
				sp e	546	107
				sp a	547	139, 154, 155, 156
				sp c	548	7, 38, 44, 52, 57, 82, 103, 107, 113, 116, 119, 121, 122, 126, 136, 141, 144, 146, 148, 149, 154, 155, 156, 160, 161
				sp d	549	47, 91

Class	Order	Family	Genus	Species	species number	Site
		Portunidae	<i>Charybdis</i>	<i>sp a</i>	559	38, 96
				<i>ihlei</i>	560	57, 125
				<i>anisodon</i>	561	11, 17, 53
				<i>bimaculata</i>	562	5, 98
				<i>callianassa</i>	563	45, 53, 77
				<i>feriata</i>	564	40, 53
				<i>truncata</i>	565	50
			<i>Lupocyclus</i>	<i>rotundatus</i>	597	140
				<i>tugelae</i>	598	36
		Portunidae		<i>sp</i>	615	29, 33, 36
				<i>sp a</i>	616	100
		Portunus		<i>sp</i>	617	82, 97
				<i>gracilimanus</i>	618	85, 137, 158, 159, 161
				<i>hastatoides</i>	619	2, 3, 4, 5, 9, 11, 12, 13, 20, 28, 29, 50, 61, 70, 75, 76, 79, 101
				<i>innominatus</i>	620	13, 20, 28, 35, 67, 76, 84
				<i>longispinosus bidens</i>	621	6
				<i>rubromarginatus</i>	622	82
				<i>sanguinolentus</i>	623	46
				<i>tenuipes</i>	624	44
			<i>Thalamita</i>	<i>danae</i>	631	36
				<i>hanseni</i>	632	46, 140, 148,
				<i>macropus</i>	633	27, 97
				<i>picta</i>	634	56, 67, 140
				<i>savignyi</i>	635	7, 81, 107
				<i>sexlobata</i>	636	36, 81, 107, 137, 146, 147
		Processidae	<i>Processidae</i>	<i>sp</i>	670	36
		Raninidae	<i>Raninidae</i>	<i>sp a</i>	627	1, 3
		Scyllaridae	<i>Scyllaridae</i>	<i>sp</i>	675	33, 46, 56, 144

Class	Order	Family	Genus	Species	species number	Site
		Stenopodidae	<i>Odontozona</i>		686	57
		Upogebidae	<i>Upogebia</i>		676	114, 121
			<i>Upogebidae</i>		677	147, 154, 155
		Xanthidae	<i>Actaea</i>	<i>tuberculosa</i>	553	156
			<i>Sphaerozius</i>	<i>sp</i>	630	144
			<i>Xanthidae</i>		639	2, 4, 7, 10, 11, 14, 20, 21, 23, 24, 28, 32, 38, 40, 42, 46, 48, 52, 55, 56, 57, 66, 67, 75, 77, 78, 81, 84, 85, 88, 92, 93, 95, 97, 99, 101, 103, 107, 110, 113, 114, 116, 119, 121, 122, 123, 126, 128, 129, 130, 132, 138, 139, 140, 141, 144, 147, 148, 152
	Decopoda	Hippidae	<i>Emerita</i>	<i>sp a</i>	687	112
	Isopoda	Isopoda	<i>Isopoda</i>	<i>sp</i>	688	3, 11, 26, 38, 39, 57, 58, 84, 92, 97, 103, 104, 107, 126, 127, 128, 132, 136, 139, 140, 144, 147, 150, 152, 154, 155, 156, 160, 161
		Sphaeromatidae	<i>Sphaeromatidae</i>		689	32, 38, 46, 57, 66, 87, 130, 142, 148, 153, 154
	Mysidacea	Mysidacea	<i>Mysidacea</i>		690	57
	Stomatopoda	Eurysquillidae	<i>Eurysquillidae</i>	<i>sp a</i>	692	98
		Gonodactylidae	<i>Gonodactylus</i>		693	7, 81, 103, 107, 110, 129
		Protosquillidae	<i>Haptosquilla</i>		694	81, 155
		Squillidae	<i>Clorida</i>		691	21, 38, 70
			<i>Oratosquilla</i>		695	45, 96, 159
				<i>sp b</i>	696	20, 84, 99, 110, 114, 116, 131
			<i>Oratosquilla</i>	<i>sp c</i>	697	135
	Stomatopoda	Stomatopoda	<i>Stomatopoda</i>	<i>sp</i>	698	17, 80, 82
	Tanaidacea	Tanaidacea	<i>Bilobatus</i>	<i>crenulatus</i>	699	84, 114, 126
Maxillopoda	Thoracica	Balanidae	<i>Balanus</i>	<i>sp</i>	521	141, 142, 144, 152, 162
				<i>amphitrite</i>	522	38, 152
				<i>amphitrite?</i>	523	38, 39
				<i>nigrescens?</i>	524	139, 159
	Thoracica	Chthamalus	<i>Chthamalus</i>	<i>attenuatus?</i>	701	31

Class	Order	Family	Genus	Species	species number	Site
			<i>Elminius</i>	<i>modestus</i>	703	142
			<i>Thoraccica</i>	<i>sp</i>	702	26, 27, 159, 161
Ostracoda	Tanaidacea	Tanaidacea	<i>Ostracoda</i>		700	57, 161

**Appendix 9.** List of fish species with localities in which fish were found.

Order	Family	Genus	Species	Species number	Site	
Anguilliformis	Opichthidae	<i>Muraenichthys</i>	<i>laticaudata</i>	179	92	
			<i>sp</i>	180	126, 152	
		<i>Ophichthus</i>		181	123	
Gadiformes	Bregmacerotidae	<i>Bregmaceros</i>	<i>nectabanus</i>	182	94, 110, 111, 113, 117	
			<i>sp</i>	183	13, 16, 24, 102	
Pegasiformes	Pegasidae	<i>Pegasus</i>	<i>volitans</i>	191	79, 101	
Perciformes	Apogonidae	<i>Apogon</i>	<i>sp</i>	195	16, 112, 122	
	Callionymidae	<i>Callionymus</i>	<i>sp</i>	203	82, 86	
			<i>sagitta (cf)</i>	204	35	
	Congrogadidae	<i>Congrogadus</i>	<i>spinifer</i>	202	136	
	Gobiidae	<i>Brachamblyopus</i>	<i>brachysoma</i>	212	116	
			<i>rubristriatus</i>	213	11, 12, 21, 23, 24, 50, 94, 125, 133, 135	
			<i>Butis</i>	<i>koilomatodon</i>	211	38
			<i>Drombus</i>	<i>halei</i>	205	53
			<i>Gobiidae</i>	<i>baliurus</i>	206	17, 23
			<i>Gobiopsis</i>	<i>macrostoma</i>	207	144
			<i>Palutrus</i>	<i>scapulopunctatus</i>	208	57
			<i>sp</i>		209	138, 154
			<i>Trypauchen</i>	<i>microcephalus</i>	214	5, 12, 50, 63, 64, 71, 94, 116, 117, 125, 133
			<i>sp</i>		215	135
		<i>Valenciennesa</i>	<i>immaculata</i>	210	39	
Lethrinidae	<i>Lethrinus</i>	<i>genivittatus</i>	197	46		
Pinguipedidae	<i>Parapercis</i>	<i>diplospilus</i>	201	39		
Pseudochromidae	<i>Assiculus</i>	<i>punctatus</i>	193	40, 107		
Scaridae	<i>Scarus</i>	<i>ghobban</i>	200	66		
Sciaenidae	<i>Austronibea</i>	<i>oedogenys</i>	198	31		

Order	Family	Genus	Species	Species number	Site
		<i>Sciaenidae</i>	<i>sp</i>	199	38
	Serranidae	<i>Epinephelus</i>	<i>sexfasciatus</i>	192	57
Pleuronectiformes	Bothidae	<i>Arnoglossus</i>	<i>sp</i>	217	4
			<i>tenuis (cf)</i>	218	12, 48
			<i>waitei</i>	219	91
	Bothidae ?	<i>Engyprosopon</i>	<i>cocosensis</i>	220	46
	Cynoglossidae	<i>Cynoglossus</i>	<i>maculipinnis</i>	221	1, 4
			<i>sp</i>	222	19, 31, 75, 125
Scorpaeniformes	Platycephalidae	<i>Inegocia</i>	<i>japonica</i>	189	29, 44
		<i>Sorsogona</i>	<i>tuberculata</i>	190	36, 82
	Scorpaenidae	<i>Cheroscorpaena</i>	<i>tridactyla</i>	188	31
Synbranchiformes	Synbranchidae	<i>Ophisternon</i>	<i>gutturale</i>	187	143
Syngnathiformes	Syngnathidae	<i>Halecampus</i>	<i>grayi</i>	184	42
		<i>Hippocampus</i>	<i>hystrix</i>	185	44, 46
Tetrodontiformes	Monacanthidae	<i>Paramonacanthus</i>	<i>choirocephalus</i>	223	29, 44, 110, 116