Appendix 7b.16 Detailed Benthos Survey Results for Cheung Sha

1 Introduction

The aim of present survey is to obtain ecological baseline information on the benthic condition along the alignment of proposed submarine cable between Shek Kwu Chau and Cheung Sha (South Lantau Island).

2 Methodologies

2.1 Field sampling

In order to collect comprehensive benthic baseline information along the proposed submarine cable between Shek Kwu Chau and Cheung Sha, benthos sampling was undertaken at four sampling sites (refer to **Figure 7b.4**). Two sampling sites P1 and P3 were located on the alignment of submarine cable. Two sampling sites P2 and P4 were located 380-400 metres away from the alignment. The coordinates of the four sampling sites were fixed by Global Positioning System (GPS) on board (**Table 2.1**). The samplings were conducted in wet season (29th August, 2009) and dry season (12th December, 2009).

At every sampling site, three replicates of sediment samples were collected using a 0.1 m^2 van Veen grab. Collected samples were accepted when at least two-third of grab volume was filled. A photographic record of the sediment texture and colour was taken. The samples were washed gently with seawater through a wooden box of sieve with 0.5 mm mesh size. Large animals that were visible from the residues were hand-picked into a small plastic vial. All remains were washed and transferred into a plastic container followed by preservation with 70% ethanol solution and staining with 1% Rose Bengal solution.

2.2 Laboratory work

After arrival to laboratory, the samples were stored for one day to ensure sufficient preservation and staining. The animals collected were sorted out from the sediment residues. For quality assurance, the sediment residues of one-third sorted samples were randomly rechecked. No missed specimen was found in the recheck.

The collected specimens were identified to the lowest taxonomic resolution by a trained technician. Examination of the morphological features of the specimens was undertaken with the aid of both stereoscopic and compound microscopes. The taxonomic classification was conducted in accordance to the following references: Polychaetes: Day (1967), Gallardo (1967), Fauchald (1977), Yang and Sun

(1988), Wu *et al*. (1997), Sun (2004); Crustaceans: Dai and Yang (1991), Dong (1991); Mollusks: Qi (2004). The number of individuals of each species was recorded by counting the anterior portions of the fauna only. Total biomass of each species was determined as preserved wet weight, after blotting the animals on filter paper for 3 minutes before weighing to the nearest 0.0001g.

2.3 Data analysis

Data collected from three replicate samples at every sampling site were pooled together for data analysis. Shannon-Weaver Diversity Index (*H'*) and Pielou's Species Evenness (*J*) were calculated using the formulae below,

$H' = -\Sigma (Ni / N) \ln (Ni / N)$ (Shannon and Weaver, 1963)

$J = H' / \ln S$, (Pielou, 1966)

where S is the total number of species in the sample, N is the total number of individuals, and Ni is the number of individuals of the i^{th} species.

Table 2.1. *The GPS coordinates of the sampling sites (in WGS84 datum (ITRF96 Reference Frame))*

Sampling site	Latitude (N)	Longitude (E)
P1	22° 13.835'	113° 57.804'
P2	22° 13.350'	113° 58.164'
P3	22° 12.551'	113° 58.263'
P4	22° 11.624'	113° 58.392'

3 Results

3.1 Sediment texture and colour

Table 3.1 and **Figure 3.1** show the sediment texture and colour at every sampling site. At P1, there was fine sand of about 20% silt-clay fraction (sediment diameter < 64 μm) only. The major particle diameter (~70%) ranged 63-250 μm. At P2, P3 and P4, there was fine mud (~90% silt-clay fraction). The sediments were grey in colour without special odour at all sampling sites in both seasons of sampling.

3.2 Benthic baseline

Table 3.2 lists the total abundance and total biomass of every faunal group in wet and dry seasons. A total of 919 and 955 specimens were collected in wet and dry seasons respectively. Seventy five of 80 taxa were identified to genus or species levels. The most diverse faunal group was polychaetes (42 species + Aphroditidae spp.) followed by 15 species of crustaceans (13 species + Amphipod spp. + unidentified juvenile shrimp), 12 species of mollusks, 4 species of echinoderms, 2 species of cnidarian, 1 species of echiuran and 1 species of sipunculan. Nemerteans and Platyhelminthes were classified into general taxa due to limited taxonomic references. In wet season, 69%, 15%, 8% and 8% of total abundance were polychaetes, echiurans, mollusks and other phyla respectively. The total biomass was 19.2081g, in which 44%, 32%, 14% and 10% of total biomass were echiurans, mollusks, crustaceans and other phyla respectively. In dry season, 72%, 9%, 7% and 12% of total abundance were polychaetes, echiurans, crustaceans and other phyla respectively. The total biomass was 27.4377g, in which 58%, 19%, 9% and 14% of total biomass were echiurans, mollusks, cnidarians and other phyla respectively. The complete list of collected specimens is provided in **Appendices I & II**.

Table 3.3 shows the percent proportion of every faunal group (in total abundance) at every sampling site in wet and dry seasons. In wet season of sampling, polychaete was the major faunal group at P1 and P2 (94-95% of total abundance). The abundances of other fauna were very less at these two sampling sites (0-2% of total abundance). Polychaete (23-56% of total abundance) and echiuran (16-45% of total abundance) were generally most abundant at P3 and P4. Mollusk was the third abundant group at P3 and P4 (16% of total abundance). Other faunal groups were less in number and contributed less than 10% of total abundance. Similarly, polychaete was still the major faunal group at P1 and P2 (84-91% of total abundance) in dry season of sampling. The abundances of other fauna were less at these two sampling sites (0-11% of total abundance). Polychaete was the most abundant at P3 and P4 (49-68% of total abundance) while echiuran was the second abundant at P4 (30% of total abundance). Other faunal groups contributed less than 10% of total abundance at P3 and P4.

Table 3.4 shows the total number of species, total abundance, total biomass, *H'* and *J* at every

sampling site in wet and dry seasons. In wet season of sampling, the total number of species at P1 (18 spp. 0.3 m^{-2}) was less than other sampling sites (31-35 spp. 0.3 m^{-2}). The total abundance at P3 (420 ind. m^{-2}) was less than other sampling sites (830-953 ind. m^{-2}). Similar to total number of species, both *H'* (1.03) and *J* (0.35) at P1 were less than that of other sampling sites (*H'*: 2.17-3.07; *J*: 0.63-0.86). In dry season of sampling, the total number of species increased slightly at all sampling sites but there was no noticeable change of total abundance. The total number of species at P1 (29 spp. 0.3 m^{-2}) was less than that of other sampling sites (35-39 spp. 0.3 m^{-2}). The total abundance at P3 (650 ind. m^{-2}) was less than other sampling sites (763-940 ind. m^{-2}). The *H'* and *J* became similar and ranged 1.99-2.36 and 0.59-0.65 respectively.

The total biomass varied greatly while no spatial difference was noticed. The total biomass varied ranged 0.95-38.02 g m^{-2} and 2.30-57.76 g m^{-2} in wet and dry seasons respectively. In wet season of sampling, the higher biomass at P2, P3 and P4 were generally accounted by 1-2 large species such as bivalve *Tegillarca granosa* (1 ind. at P2) and echiuran *Thalassema sabinum* (20 ind. at P3; 117 ind. at P4). In dry season of sampling, the higher biomass at P2, P3 and P4 were generally accounted by several large species such as bivalves *Macoma praerupta* (2 ind. at P2), *Paphia undulata* (1 ind. at P2), cnidarian *Metedwardsia akkeshi* (7 ind. at P3) and echiuran *Thalassema sabinum* (85 ind. at P4).

Table 3.5 lists out the five most abundant species at every sampling site in wet season of sampling. P1 was mainly dominated by polychaete *Magelona* sp. (80% of total abundance) only. P2 was dominated by polychaetes *Paraprionospio pinnata* (27%), *Magelona* sp. (19%) and *Mediomastus* sp. (12%). P3 and P4 were generally dominated by echiuran *Thalassema sabinum* (16-45%), mollusk *Mactra ornata* (9-13%), polychaete *Mediomastus* sp. (4-13%) and sipunculan *Apionsoma trichocephalus* (6-9%).

Table 3.6 lists out the five most abundant species at every sampling site in dry season of sampling. P1 was mainly dominated by polychaetes *Magelona* sp. (45% of total abundance) and *Paraprionospio pinnata* (19%). P2 was dominated by polychaetes *Mediomastus* sp. (36%) and *Magelona* sp. (25%). P3 was dominated by polychaete *Mediomastus* sp. (48%) only. P4 was dominated by polychaete *Mediomastus* sp. (30%) and echiuran *Thalassema sabinum* (30%).

Table 3.1. *Sediment texture and colour at every sampling site in wet and dry seasons*

Sampling sites	% of silt–clay fraction	Sediment texture	Sediment colour	Level of sulphite smell	
				Wet season	Dry season
P1	~20%	Fine sand	Grey	\	\
P2	~90%	Fine mud	Grey	\	\
P3	~90%	Fine mud	Grey	\	\
P4	~90%	Fine mud	Grey	\	\

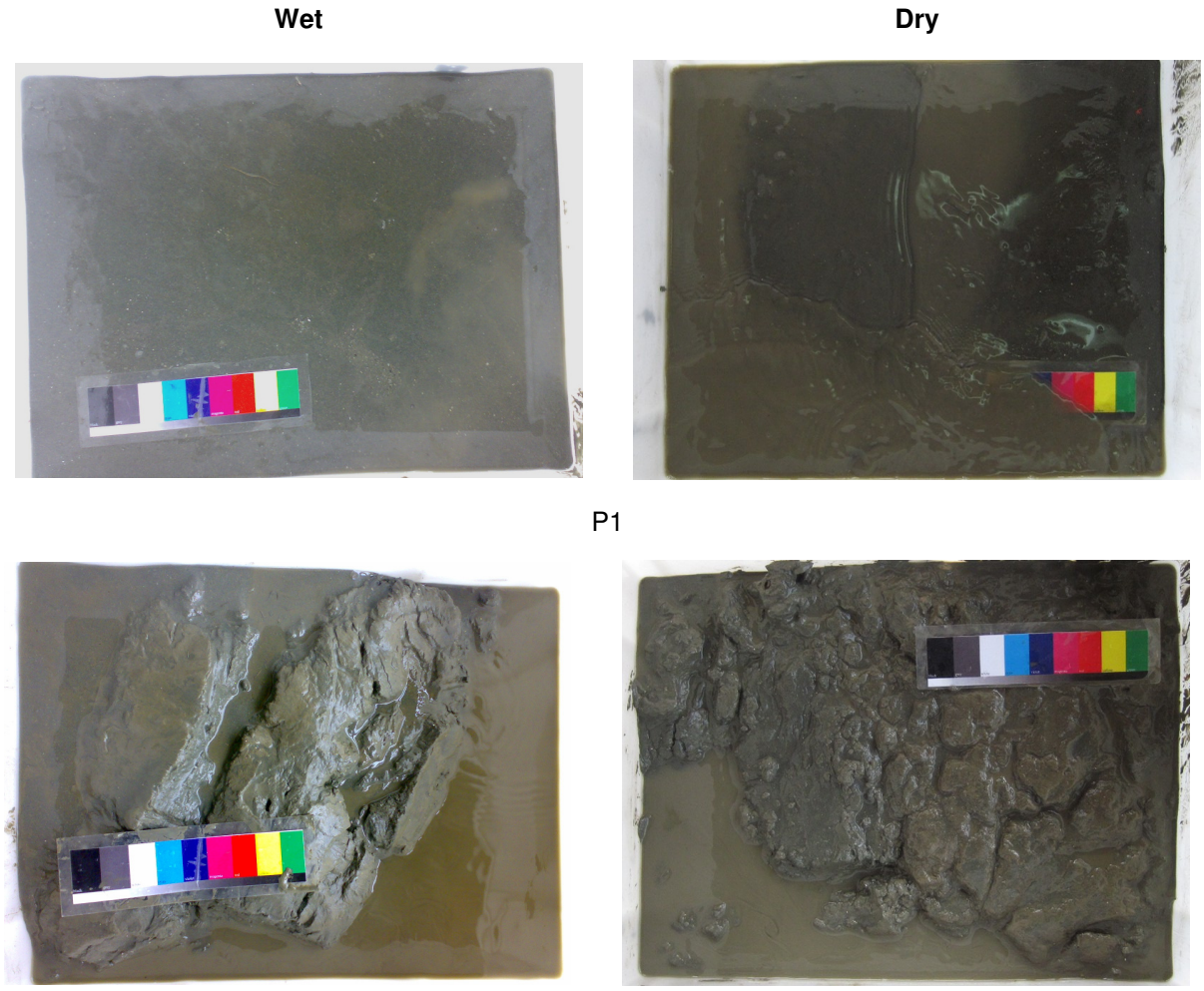
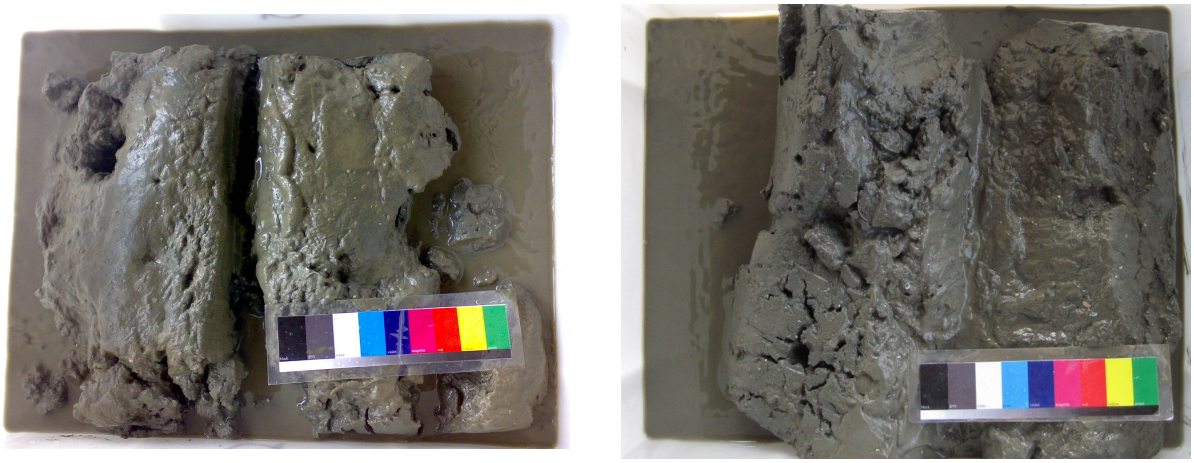
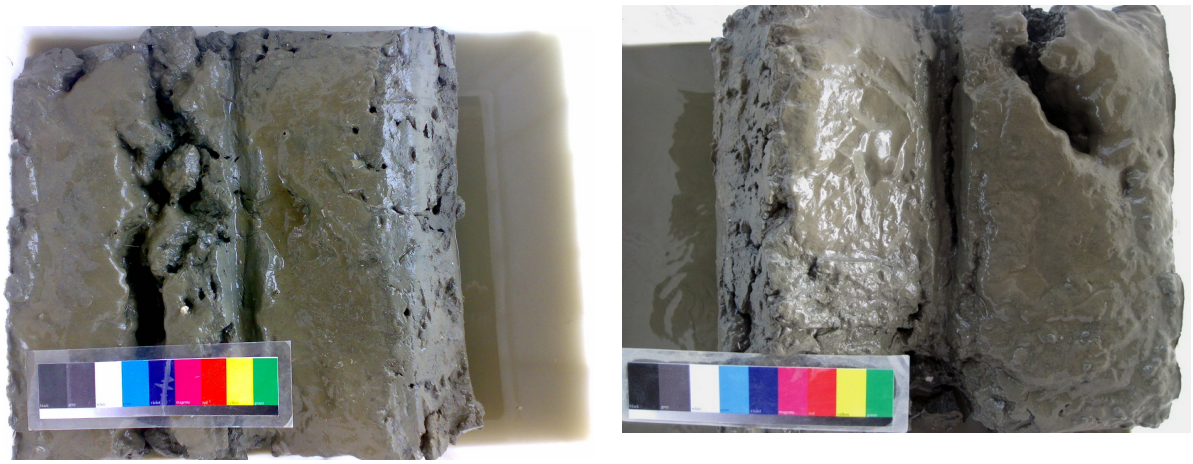


Figure 3.1. *Photographic records of sediment at the sampling sites in wet and dry seasons*

Wet **Dry**



P3



P4

Figure 3.1 (Cont'd). *Photographic records of sediment at the sampling sites in wet and dry seasons*

Table 3.2. *Total abundance and total biomass of every faunal group in wet and dry seasons*

Faunal group	Total ind.	%	Total biomass (g)	%
Wet season				
Polychaeta	636	69	1.0486	5
Echiura	140	15	8.4530	44
Mollusca	70	8	6.2320	32
Sipuncula	31	3	0.0903	0
Crustacea	25	3	2.6459	14
Nemertea	11	1	0.0334	0
Cnidaria	4	0	0.6114	3
Echinodermata	2	0	0.0935	0
Total	919		19.2081	
Dry season				
Polychaeta	687	72	1.5236	6
Echiura	88	9	15.8604	58
Crustacea	66	7	1.6316	6
Sipuncula	44	5	0.1479	1
Mollusca	23	2	5.2629	19
Echinodermata	20	2	0.3187	1
Nemertea	18	2	0.3484	1
Cnidaria	8	1	2.3427	9
Platyhelminthes	1	0	0.0015	0
Total	955		27.4377	

0 %: total individual / biomass of the faunal group is less than 1% of that of all specimens

Table 3.3. *The percent proportion of faunal groups (in total abundance) at every sampling site in wet and dry seasons*

% Proportion of faunal group	P1	P2	P3	P4
Wet season				
Polychaeta	95	94	56	23
Echiura		1	16	45
Mollusca	2	2	16	16
Sipuncula		0	6	9
Crustacea	2	0	3	6
Nemertea	1	2	2	0
Cnidaria			2	1
Echinodermata	0	0		
Dry season				
Polychaeta	84	91	68	49
Sipuncula		0	10	8
Crustacea	11	2	7	7
Echinodermata		0	6	2
Cnidaria	0		4	
Mollusca	2	3	3	2
Nemertea	2	3	2	1
Echiura		1	1	30
Platyhelminthes		0		

0 %: Percentage proportion of the faunal group is less than 1% of that of all specimens

Table 3.4. *Number of species, total abundance, total biomass, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) at every sampling site in wet and dry seasons*

	Season	P1	P2	P3	P4
Total number of species	Wet	18	31	35	31
(spp. 0.3 m^{-2})	Dry	29	35	39	37
Total abundance	Wet	953	830	420	860
(ind. m^{-2})	Dry	830	763	650	940
Total biomass	Wet	0.9493	15.0320	10.0210	38.0247
(g m^{-2})	Dry	2.2960	12.3237	19.0793	57.7600
Shannon-Weaver	Wet	1.03	2.54	3.07	2.17
Diversity Index *H'*	Dry	1.99	2.30	2.36	2.30
Pielou's Species	Wet	0.35	0.74	0.86	0.63
Evenness *J*	Dry	0.59	0.65	0.64	0.64

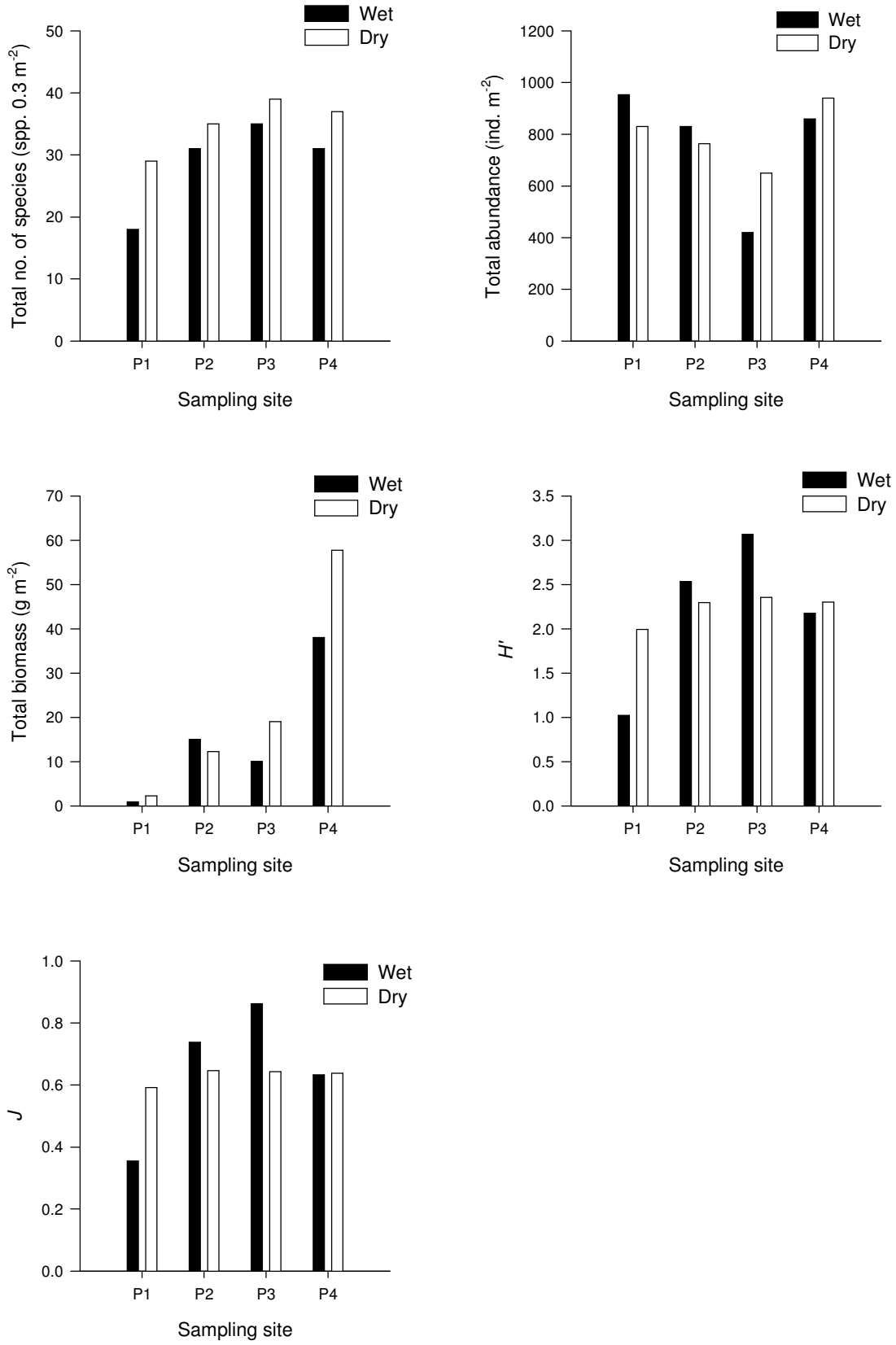


Figure 3.2. *Number of species, total abundance, total biomass, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) at every sampling site in wet and dry seasons*

Table 3.5. *The five most abundant species at every sampling site in wet season*

Sampling point	Group	Species	mean density (ind. m^{-2})	mean biomass (g m^{-2})	relative abundance (%)
P 1	P	*Magelona* sp.	760	0.2857	80
	P	*Glycera tridactyla*	33	0.0430	3
	P	*Cirriformia* sp.	20	0.2157	2
	P	*Glycinde gurjanovae*	20	0.0173	2
	P	*Paraprionospio pinnata*	20	0.0097	2
P 2	P	*Paraprionospio pinnata*	223	0.1507	27
	P	*Magelona* sp.	160	0.0530	19
	P	*Mediomastus* sp.	97	0.1363	12
	P	*Prionospio malmgreni*	43	0.0073	5
	P	*Decamastus* sp.	43	0.0440	5
P 3	Eh	*Thalassema sabinum*	67	5.0327	16
	P	*Mediomastus* sp.	57	0.0823	13
	M	*Mactra ornata*	37	1.0320	9
	Sp	*Apionsoma trichocephalus*	23	0.0707	6
	P	*Glycera tridactyla*	20	0.0083	5
P 4	Eh	*Thalassema sabinum*	390	20.8307	45
	M	*Mactra ornata*	110	2.7007	13
	Sp	*Apionsoma trichocephalus*	77	0.2147	9
	P	*Mediomastus* sp.	37	0.0613	4
	P	Aphroditidae spp	37	0.5263	4

Table 3.6. *The five most abundant species at every sampling site in dry season*

Sampling point	Group	Species	mean density (ind. m^{-2})	mean biomass (g m^{-2})	relative abundance (%)
P 1	P	*Magelona* sp.	377	0.2697	45
	P	*Paraprionospio pinnata*	160	0.2277	19
	C	Amphipod spp.	80	0.0447	10
	P	*Glycinde gurjanovae*	47	0.0200	6
	N	Nemertean spp.	20	0.2687	2
P 2	P	*Mediomastus* sp.	273	0.2237	36
	P	*Magelona* sp.	193	0.1017	25
	P	*Glycinde gurjanovae*	33	0.0243	4
	P	*Paraprionospio pinnata*	30	0.0213	4
	P	*Prionospio malmgreni*	30	0.0233	4
P 3	P	*Mediomastus* sp.	313	0.2837	48
	Sp	*Apionsoma trichocephalus*	67	0.2460	10
	Cn	*Metedwardsia akkeshi*	23	7.7987	4
	C	*Neoxenophthalmus obscurus*	20	0.9107	3
	P	*Magelona* sp.	17	0.0043	3
P 4	P	*Mediomastus* sp.	283	0.3150	30
	Eh	*Thalassema sabinum*	283	51.5943	30
	Sp	*Apionsoma trichocephalus*	77	0.2450	8
	P	*Harmothoe imbricata*	40	0.7787	4
	C	Amphipod spp.	30	0.0077	3

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Appendix I *List of collected specimens at every sampling site in wet season*

Sampling point: P1 Sampling date: 29/08/2009										
No	Groups	Species	1		2		3		Total	
			Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.
			(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.3m^2)	(g/0.3m^2)
1	P	*Aglaophamus dibranchis*					2	0.00	2	0.00
2	P	*Cirriformia* sp.	2	0.03	3	0.03	1	0.00	6	0.06
3	P	*Glycera tridactyla*	2	0.00	2	0.00	6	0.01	10	0.01
4	P	*Glycinde gurjanovae*	3	0.00			3	0.00	6	0.01
5	P	*Magelona* sp.	67	0.04	82	0.04	79	0.01	228	0.09
6	P	*Mediomastus* sp.	2	0.00			1	0.00	3	0.00
7	P	*Paraprionospio pinnata*			3	0.00	3	0.00	6	0.00
8	P	*Pista* sp.			1	0.00			1	0.00
9	P	*Poecilochaetus* sp. 1					1	0.00	1	0.00
10	P	*Prionospio malmgreni*	1	0.00			3	0.00	4	0.00
11	P	*Prionospio saccifera nc*					1	0.00	1	0.00
12	P	*Rhynchospio* sp.					1	0.05	1	0.05
13	P	*Sternaspis sculata*			2	0.00			2	0.00
14	C	*Alpheus* sp. 1	2	0.00	2	0.00			4	0.00
15	C	Unidentified juvenile shrimp	1	0.00					1	0.00

P = Polychaeta, C = Crustacea, M = Mollusca, N = Nemertea, Ec = Echinodermata

Biomass = 0.00 g / 0.1m^2 : The specimen with total biomass less than 0.01 g / 0.1m^2

Appendix I (cont'd) *List of collected specimens at every sampling site in wet season*

Sampling point: P1			Sampling date: 29/08/2009							
No	Groups	Species	1		2		3		Total	
			Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.
			(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.3m^2)	(g/0.3m^2)
16	N	Nemertean spp.	1	0.00			2	0.00	3	0.00
17	M	*Theora lata*	3	0.00	2	0.02	1	0.00	6	0.02
18	Ec	*Amphioplus lucidus*					1	0.02	1	0.02
Total			84	0.073	97	0.1026	105	0.1092	286	0.28

P = Polychaeta, C = Crustacea, M = Mollusca, N = Nemertea, Ec = Echinodermata

Biomass = 0.00 g / 0.1m^2 : The specimen with total biomass less than 0.01 g / 0.1m^2

Appendix I (cont'd) *List of collected specimens at every sampling site in wet season*

Sampling point: P2 Sampling date: 29/08/2009										
No	Groups	Species	1		2		3		Total	
			Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.
			(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.3m^2)	(g/0.3m^2)
1	P	*Amphicteis gunneri*					1	0.00	1	0.00
2	P	*Chaetozone* sp.	3	0.00	3	0.00	2	0.00	8	0.00
3	P	*Cirriformia* sp.	2	0.00	2	0.00	1	0.02	5	0.02
4	P	*Cossurella dimorpha*	1	0.00					1	0.00
5	P	*Decamastus* sp.	5	0.01			8	0.00	13	0.01
6	P	*Euchymene oerstedii*	3	0.00					3	0.00
7	P	*Glycera tridactyla*	3	0.00	2	0.00	3	0.00	8	0.01
8	P	*Glycinde gurjanovae*	4	0.00	2	0.00	4	0.00	10	0.00
9	P	*Loimia* sp.			2	0.00			2	0.00
10	P	*Lumbrineris* sp. 1	1	0.00			4	0.00	5	0.00
11	P	*Magelona* sp.	15	0.00	14	0.01	19	0.01	48	0.02
12	P	*Mediomastus* sp.	14	0.01	8	0.01	7	0.02	29	0.04
13	P	*Notomastus* sp.					1	0.00	1	0.00
14	P	*Paraonella* sp.	1	0.00	2	0.00			3	0.00
15	P	*Paraprionospio pinnata*	19	0.01	21	0.02	27	0.02	67	0.05

P = Polychaeta, C = Crustacea, M = Mollusca, N = Nemertea, Sp = Sipuncula, Eh = Echiura, Ec = Echinodermata

Biomass = 0.00 g / 0.1m^2 : The specimen with total biomass less than 0.01 g / 0.1m^2

Appendix I (cont'd) *List of collected specimens at every sampling site in wet season*

Sampling point: P2			Sampling date: 29/08/2009							
No	Groups	Species	1		2		3		Total	
			Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.
			(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.3m^2)	(g/0.3m^2)
16	P	*Pectinaria conchilega*	2	0.00					2	0.00
17	P	*Phyllodoce* sp. 1	1	0.00					1	0.00
18	P	*Poecilochaetus* sp. 1	1	0.00	1	0.00			2	0.00
19	P	*Prionospio malmgreni*	4	0.00	3	0.00	6	0.00	13	0.00
20	P	*Scolelepis squamata*			1	0.00			1	0.00
21	P	*Sternaspis sculata*	3	0.03	3	0.02			6	0.05
22	P	*Terebellides stroemii*					3	0.00	3	0.00
23	P	*Tharyx* sp.					3	0.00	3	0.00
24	M	*Mactra ornata*	1	0.03			1	0.06	2	0.10
25	M	*Solen dunkerianus*			1	0.00			1	0.00
26	M	Tegillarca granosa					1	3.24	1	3.24
27	N	Nemertean spp.	2	0.02	1	0.01	1	0.00	4	0.03
28	Eh	*Thalassema sabinum*					3	0.69	3	0.69
29	Ec	*Amphioplus laevis*	1	0.07					1	0.07
30	C	*Typhlocarcinus villosus*					1	0.16	1	0.16

P = Polychaeta, C = Crustacea, M = Mollusca, N = Nemertea, Sp = Sipuncula, Eh = Echiura, Ec = Echinodermata

Biomass = 0.00 g / 0.1m^2 : The specimen with total biomass less than 0.01 g / 0.1m^2

Appendix I (cont'd) *List of collected specimens at every sampling site in wet season*

Sampling point: P2			Sampling date: 29/08/2009							
No	Groups	Species	1		2		3		Total	
			Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.
			(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.3m^2)	(g/0.3m^2)
31	Sp	*Apionsoma trichocephalus*	1	0.00					1	0.00
Total			87	0.201	66	0.07	96	4.24	249	4.51

P = Polychaeta, C = Crustacea, M = Mollusca, N = Nemertea, Sp = Sipuncula, Eh = Echiura, Ec = Echinodermata

Biomass = 0.00 g / 0.1m^2 : The specimen with total biomass less than 0.01 g / 0.1m^2

Appendix I (cont'd) *List of collected specimens at every sampling site in wet season*

Sampling point: P3			Sampling date: 29/08/2009							
No	Groups	Species	1		2		3		Total	
			Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.
			(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.3m^2)	(g/0.3m^2)
1	P	*Aglaophamus dibranchis*	2	0.00	1	0.00			3	0.00
2	P	*Aglaophamus sinensis*					2	0.00	2	0.00
3	P	*Amphicteis gunneri*	1	0.00					1	0.00
4	P	Aphroditidae spp			2	0.08	1	0.01	3	0.09
5	P	*Cirriformia* sp.	2	0.00					2	0.00
6	P	*Euchymene oerstedii*					2	0.00	2	0.00
7	P	*Glycera tridactyla*			4	0.00	2	0.00	6	0.00
8	P	*Glycinde gurjanovae*					1	0.00	1	0.00
9	P	*Linopherus paucibranchiata*					1	0.00	1	0.00
10	P	*Lumbrineris* sp. 1			1	0.00			1	0.00
11	P	*Magelona* sp.	1	0.00	2	0.00			3	0.00
12	P	*Mediomastus* sp.	3	0.01	3	0.01	11	0.01	17	0.02
13	P	*Notomastus* sp.					1	0.00	1	0.00
14	P	*Ophelina acuminata*					1	0.00	1	0.00
15	P	*Ophiodromus angutifrons*	1	0.00			1	0.00	2	0.00

P = Polychaeta, C = Crustacea, M = Mollusca, N = Nemertea, Sp = Sipuncula, Eh = Echiura, Cn = Cnidaria

Biomass = 0.00 g / 0.1m^2 : The specimen with total biomass less than 0.01 g / 0.1m^2

Appendix I (cont'd) *List of collected specimens at every sampling site in wet season*

Sampling point: P3			Sampling date: 29/08/2009							
No	Groups	Species	1		2		3		Total	
			Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.
			(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.3m^2)	(g/0.3m^2)
16	P	*Otopsis* sp.	2	0.00	1	0.00	3	0.00	6	0.00
17	P	*Paraprionospio pinnata*			1	0.00			1	0.00
18	P	*Poecilochaetus* sp. 1					1	0.00	1	0.00
19	P	*Prionospio malmgreni*	2	0.00			2	0.00	4	0.00
20	P	*Rhynchospio* sp.			1	0.06			1	0.06
21	P	*Sternaspis sculata*	2	0.02	4	0.02			6	0.04
22	P	*Tharyx* sp.	1	0.00	1	0.00	3	0.00	5	0.00
23	C	*Alpheus brevicristatus*					1	0.02	1	0.02
24	C	*Neoxenophthalmus obscurus*	1	0.02					1	0.02
25	C	*Raphidopus ciliatus*	1	0.19					1	0.19
26	C	*Thalamita sima*					1	0.01	1	0.01
27	M	*Mactra ornata*	8	0.26	3	0.05			11	0.31
28	M	*Nitidotellina minuta*			1	0.01	2	0.02	3	0.03
29	M	*Saccella gordonis*					1	0.03	1	0.03
30	M	*Solen dunkerianus*	4	0.15					4	0.15

P = Polychaeta, C = Crustacea, M = Mollusca, N = Nemertea, Sp = Sipuncula, Eh = Echiura, Cn = Cnidaria

Biomass = 0.00 g / 0.1m^2 : The specimen with total biomass less than 0.01 g / 0.1m^2

Appendix I (cont'd) *List of collected specimens at every sampling site in wet season*

Sampling point: P3			Sampling date: 29/08/2009							
No	Groups	Species	1		2		3		Total	
			Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.
			(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.3m^2)	(g/0.3m^2)
31	M	*Tegillarca granosa*			1	0.05			1	0.05
32	N	Nemertean spp.	1	0.00			2	0.00	3	0.00
33	Sp	*Apionsoma trichocephalus*	2	0.01	4	0.01	1	0.00	7	0.02
34	Eh	*Thalassema sabinum*	3	0.38	4	0.72	13	0.41	20	1.51
35	Cn	*Metedwardsia akkeshi*	2	0.43					2	0.43
Total			39	1.4726	34	1.0112	53	0.52	126	3.01

P = Polychaeta, C = Crustacea, M = Mollusca, N = Nemertea, Sp = Sipuncula, Eh = Echiura, Cn = Cnidaria

Biomass = 0.00 g / 0.1m^2 : The specimen with total biomass less than 0.01 g / 0.1m^2

Appendix I (cont'd) *List of collected specimens at every sampling site in wet season*

Sampling point: P4			Sampling date: 29/08/2009							
No	Groups	Species	1		2		3		Total	
			Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.
			(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.3m^2)	(g/0.3m^2)
1	P	*Aglaophamus dibranchis*			3	0.00	2	0.00	5	0.00
2	P	*Aglaophamus sinensis*	1	0.01	1	0.02	1	0.00	3	0.03
3	P	Aphroditidae spp	2	0.03	8	0.10	1	0.02	11	0.16
4	P	*Ceratonereis* sp. 1	1	0.00					1	0.00
5	P	*Cossurella dimorpha*	1	0.00	1	0.00			2	0.00
6	P	*Glycera tridactyla*	2	0.00	3	0.00	3	0.00	8	0.01
7	P	*Harmothoe imbricata*					2	0.02	2	0.02
8	P	*Loimia bandera*	1	0.00					1	0.00
9	P	*Magelona* sp.			2	0.00			2	0.00
10	P	*Mediomastus* sp.	2	0.00	6	0.01	3	0.01	11	0.02
11	P	*Onuphis eremita*	3	0.00					3	0.00
12	P	*Paraprionospio pinnata*			1	0.00			1	0.00
13	P	*Pectinaria conchilega*					1	0.00	1	0.00
14	P	*Poecilochaetus* sp. 1	1	0.10					1	0.10
15	P	*Prionospio malmgreni*			1	0.00			1	0.00

P = Polychaeta, C = Crustacea, M = Mollusca, N = Nemertea, Sp = Sipuncula, Eh = Echiura, Cn = Cnidaria

Biomass = 0.00 g / 0.1m^2 : The specimen with total biomass less than 0.01 g / 0.1m^2

Appendix I (cont'd) *List of collected specimens at every sampling site in wet season*

Sampling point: P4 Sampling date: 29/08/2009										
No	Groups	Species	1		2		3		Total	
			Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.
			(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.3m^2)	(g/0.3m^2)
16	P	*Schistomeringos rudolphi*	1	0.00					1	0.00
17	P	*Sigambra hanaokai*					2	0.00	2	0.00
18	P	*Sternaspis sculata*			2	0.01	2	0.01	4	0.01
19	C	*Alpheus* sp. 1					1	0.04	1	0.04
20	C	*Callianassa japonica*	1	0.01					1	0.01
21	C	*Neoxenophthalmus obscurus*	3	0.73	3	0.52	3	0.80	9	2.04
22	C	*Tritodynamia longipropodum*			1	0.05			1	0.05
23	C	*Typhlocarcinus nudus*			1	0.03			1	0.03
24	C	*Typhlocarcinus villosus*					2	0.08	2	0.08
25	M	*Macoma praerupta*	1	0.22	2	0.87	2	0.39	5	1.47
26	M	*Mactra ornata*					33	0.81	33	0.81
27	M	*Nitidotellina minuta*			2	0.02			2	0.02
28	Sp	*Apionsoma trichocephalus*	6	0.01	9	0.01	8	0.04	23	0.06
29	N	Nemertean spp.					1	0.00	1	0.00
30	Eh	*Thalassema sabinum*	11	0.87	33	1.50	73	3.88	117	6.25

P = Polychaeta, C = Crustacea, M = Mollusca, N = Nemertea, Sp = Sipuncula, Eh = Echiura, Cn = Cnidaria

Biomass = 0.00 g / 0.1m^2 : The specimen with total biomass less than 0.01 g / 0.1m^2

Appendix I (cont'd) *List of collected specimens at every sampling site in wet season*

Sampling point: P4			Sampling date: 29/08/2009							
No	Groups	Species	1		2		3		Total	
			Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.
			(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.3m^2)	(g/0.3m^2)
31	Cn	*Metedwardsia akkeshi*					2	0.18	2	0.18
Total			37	1.9813	79	3.1329	142	6.29	258	11.41

P = Polychaeta, C = Crustacea, M = Mollusca, N = Nemertea, Sp = Sipuncula, Eh = Echiura, Cn = Cnidaria

Biomass = 0.00 g / 0.1m^2 : The specimen with total biomass less than 0.01 g / 0.1m^2

Appendix II *List of collected specimens at every sampling site in dry season*

Sampling point: P1			Sampling date: 12/12/2009							
No	Groups	Species	1		2		3		Total	
			Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.
			(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.3m^2)	(g/0.3m^2)
1	P	*Aglaophamus sinensis*	1	0.01					1	0.01
2	P	*Amphicteis gunneri*			2	0.00	2	0.00	4	0.00
3	P	*Chaetozone* sp.	1	0.00					1	0.00
4	P	*Cirriformia* sp.	2	0.01					2	0.01
5	P	*Decamastus* sp.	2	0.00					2	0.00
6	P	*Glycera alba*			1	0.00	2	0.00	3	0.00
7	P	*Glycinde gurjanovae*	8	0.00	1	0.00	5	0.00	14	0.01
8	P	*Loimia bandera*					2	0.02	2	0.02
9	P	*Magelona* sp.	50	0.04	14	0.01	49	0.03	113	0.08
10	P	*Mediomastus* sp.	4	0.00					4	0.00
11	P	*Notomastus* sp.					2	0.00	2	0.00
12	P	*Onuphis eremita*	1	0.00					1	0.00
13	P	*Owenia fusformis*					1	0.01	1	0.01
14	P	*Paraprionospio pinnata*	33	0.04	6	0.01	9	0.02	48	0.07
15	P	*Pectinaria conchilega*					1	0.01	1	0.01

P = Polychaeta, C = Crustacea, M = Mollusca, N = Nemertea, Cn = Cnidaria

Biomass = 0.00 g / 0.1m^2 : The specimen with total biomass less than 0.01 g / 0.1m^2

Appendix II (cont'd) *List of collected specimens at every sampling site in dry season*

Sampling point: P1			Sampling date: 12/12/2009							
No	Groups	Species	1		2		3		Total	
			Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.
			(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.3m^2)	(g/0.3m^2)
16	P	*Phyllodoce* sp. 1	1	0.00					1	0.00
17	P	*Poecilochaetus* sp. 1	3	0.00					3	0.00
18	P	*Prionospio malmgreni*	1	0.00	1	0.00	1	0.00	3	0.01
19	P	*Scolelepis squamata*	1	0.00					1	0.00
20	P	*Sternaspis sculata*			1	0.02			1	0.02
21	P	*Tharyx* sp.	2	0.01					2	0.01
22	N	Nemertean spp.			3	0.06	3	0.02	6	0.08
23	M	*Nitidotellina iridella*			3	0.09	1	0.01	4	0.09
24	M	*Paphia exarata*					1	0.21	1	0.21
25	Cn	*Cerianthus filiformis*	1	0.00					1	0.00
26	C	Amphipod spp.	16	0.01	3	0.00	5	0.00	24	0.01
27	C	*Apseudes* sp.					1	0.00	1	0.00
28	C	*Trachypenaeus* sp.			1	0.02			1	0.02
29	C	Unidentified juvenile shrimp	1	0.02					1	0.02
Total			128	0.1554	36	0.2123	85	0.3211	249	0.69

P = Polychaeta, C = Crustacea, M = Mollusca, N = Nemertea, Cn = Cnidaria

Biomass = 0.00 g / 0.1m^2 : The specimen with total biomass less than 0.01 g / 0.1m^2

Appendix II (cont'd) *List of collected specimens at every sampling site in dry season*

Sampling point: P2			Sampling date: 12/12/2009							
No	Groups	Species	1		2		3		Total	
			Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.
			(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.3m^2)	(g/0.3m^2)
1	P	*Amphicteis gunneri*					2	0.00	2	0.00
2	P	*Cirriformia* sp.	1	0.01	1	0.00	3	0.01	5	0.01
3	P	*Decamastus* sp.	2	0.00					2	0.00
4	P	*Euchymene oerstedii*					1	0.00	1	0.00
5	P	*Glycera tridactyla*			3	0.01	1	0.00	4	0.01
6	P	*Glycinde gurjanovae*	6	0.00	4	0.00			10	0.01
7	P	*Linopherus paucibranchiata*					1	0.01	1	0.01
8	P	*Loimia bandera*			4	0.04			4	0.04
9	P	*Loimia* sp.	1	0.01					1	0.01
10	P	*Lumbrineris longiforlia*	4	0.00	1	0.00	2	0.00	7	0.01
11	P	*Magelona* sp.	24	0.01	23	0.01	11	0.00	58	0.03
12	P	*Mediomastus* sp.	49	0.04	9	0.01	24	0.02	82	0.07
13	P	*Notomastus* sp.	1	0.00					1	0.00
14	P	*Ophelina acuminata*	1	0.00					1	0.00
15	P	*Ophiodromus angutifrons*					1	0.00	1	0.00

P = Polychaeta, C = Crustacea, M = Mollusca, N = Nemertea, Sp = Sipuncula, Eh = Echiura, Ec = Echinodermata, Pl = Platyhelminthes

Biomass = 0.00 g / 0.1m^2 : The specimen with total biomass less than 0.01 g / 0.1m^2

Appendix II (cont'd) *List of collected specimens at every sampling site in dry season*

Sampling point: P2			Sampling date: 12/12/2009							
No	Groups	Species	1		2		3		Total	
			Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.
			(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.3m^2)	(g/0.3m^2)
16	P	*Paraonella* sp.	1	0.00					1	0.00
17	P	*Paraprionospio pinnata*	4	0.00	3	0.00	2	0.00	9	0.01
18	P	*Pista* sp.					2	0.01	2	0.01
19	P	*Prionospio malmgreni*	2	0.00	7	0.01			9	0.01
20	P	*Rhynchospio* sp.	1	0.01					1	0.01
21	P	*Sternaspis sculata*					1	0.01	1	0.01
22	P	*Terebellides stroemii*			1	0.00			1	0.00
23	P	*Tharyx* sp.	2	0.00	2	0.00			4	0.00
24	Sp	*Apionsoma trichocephalus*			1	0.00			1	0.00
25	Pl	Platyhelminthes spp.			1	0.00			1	0.00
26	N	Nemertean spp.	2	0.10	2	0.15	2	0.00	6	0.25
27	M	*Macoma praerupta*	1	0.27			1	0.75	2	1.02
28	M	*Nitidotellina iridella*	1	0.03	1	0.09			2	0.12
29	M	*Paphia undulata*			1	1.71			1	1.71
30	M	*Solen dunkerianus*			1	0.00			1	0.00

P = Polychaeta, C = Crustacea, M = Mollusca, N = Nemertea, Sp = Sipuncula, Eh = Echiura, Ec = Echinodermata, Pl = Platyhelminthes

Biomass = 0.00 g / 0.1m^2 : The specimen with total biomass less than 0.01 g / 0.1m^2

Appendix II (cont'd) *List of collected specimens at every sampling site in dry season*

Sampling point: P2			Sampling date: 12/12/2009							
No	Groups	Species	1		2		3		Total	
			Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.
			(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.3m^2)	(g/0.3m^2)
31	Eh	*Thalassema sabinum*			2	0.05			2	0.05
32	Ec	*Protankyra bidentata*					1	0.13	1	0.13
33	C	*Alpheus* sp. 1	1	0.02					1	0.02
34	C	Amphipod spp.	1	0.00			1	0.00	2	0.00
35	C	*Raphidopus ciliatus*	1	0.13					1	0.13
Total			106	0.6446	67	2.1047	56	0.95	229	3.70

P = Polychaeta, C = Crustacea, M = Mollusca, N = Nemertea, Sp = Sipuncula, Eh = Echiura, Ec = Echinodermata, Pl = Platyhelminthes

Biomass = 0.00 g / 0.1m^2 : The specimen with total biomass less than 0.01 g / 0.1m^2

Appendix II (cont'd) *List of collected specimens at every sampling site in dry season*

Sampling point: P3			Sampling date: 12/12/2009							
No	Groups	Species	1		2		3		Total	
			Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.
			(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.3m^2)	(g/0.3m^2)
1	P	*Aglaophamus dibranchis*					2	0.00	2	0.00
2	P	*Amphicteis gunneri*			1	0.00			1	0.00
3	P	*Cirriformia* sp.	1	0.00					1	0.00
4	P	*Cossurella dimorpha*			1	0.00			1	0.00
5	P	*Decamastus* sp.			3	0.00			3	0.00
6	P	*Euchymene oerstedii*	1	0.00					1	0.00
7	P	*Glycera alba*					3	0.02	3	0.02
8	P	*Glycera tridactyla*	1	0.00	2	0.01			3	0.01
9	P	*Glycinde gurjanovae*	1	0.00			1	0.01	2	0.01
10	P	*Harmothoe imbricata*			1	0.00			1	0.00
11	P	*Loimia* sp.			2	0.02			2	0.02
12	P	*Magelona* sp.	5	0.00					5	0.00
13	P	*Mediomastus* sp.	19	0.01	48	0.04	27	0.03	94	0.09
14	P	*Notomastus* sp.	1	0.00					1	0.00
15	P	*Onuphis eremita*			1	0.01			1	0.01

P = Polychaeta, C = Crustacea, M = Mollusca, N = Nemertea, Sp = Sipuncula, Eh = Echiura, Ec = Echinodermata, Cn = Cnidaria

Biomass = 0.00 g / 0.1m^2 : The specimen with total biomass less than 0.01 g / 0.1m^2

Appendix II (cont'd) *List of collected specimens at every sampling site in dry season*

Sampling point: P3			Sampling date: 12/12/2009							
No	Groups	Species	1		2		3		Total	
			Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.
			(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.3m^2)	(g/0.3m^2)
16	P	*Ophiodromus angutifrons*	1	0.00					1	0.00
17	P	*Paraprionospio pinnata*	1	0.00					1	0.00
18	P	*Pectinaria conchilega*			2	0.08	2	0.07	4	0.15
19	P	*Sigambra hanaokai*	2	0.00	1	0.00			3	0.00
20	P	*Sternaspis sculata*					1	0.01	1	0.01
21	P	*Terebellides stroemii*	1	0.00					1	0.00
22	Sp	*Apionsoma trichocephalus*	10	0.03	7	0.03	3	0.01	20	0.07
23	N	Nemertean spp.					4	0.01	4	0.01
24	M	*Modiolus plicatus*			1	0.58			1	0.58
25	M	*Paphia undulata*	1	0.39					1	0.39
26	M	*Sinum incisum*			1	0.48			1	0.48
27	M	*Solen dunkerianus*			2	0.31			2	0.31
28	Eh	*Thalassema sabinum*			1	0.33			1	0.33
29	Ec	*Amphioplus laevis*	2	0.01	3	0.01			5	0.01
30	Ec	*Amphioplus lucidus*	1	0.02			3	0.04	4	0.05

P = Polychaeta, C = Crustacea, M = Mollusca, N = Nemertea, Sp = Sipuncula, Eh = Echiura, Ec = Echinodermata, Cn = Cnidaria

Biomass = 0.00 g / 0.1m^2 : The specimen with total biomass less than 0.01 g / 0.1m^2

Appendix II (cont'd) *List of collected specimens at every sampling site in dry season*

Sampling point: P3			Sampling date: 12/12/2009							
No	Groups	Species	1		2		3		Total	
			Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.
			(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.3m^2)	(g/0.3m^2)
31	Ec	*Ophiocnemis marmorata*					1	0.03	1	0.03
32	Ec	*Protankyra bidentata*			2	0.09			2	0.09
33	Cn	*Metedwardsia akkeshi*			4	0.74	3	1.60	7	2.34
34	C	*Callianassa japonica*	1	0.04					1	0.04
35	C	*Eucrate crenata*			1	0.03			1	0.03
36	C	*Neoxenophthalmus obscurus*			5	0.21	1	0.07	6	0.27
37	C	*Raphidopus ciliatus*			1	0.06	1	0.08	2	0.13
38	C	*Typhlocarcinus nudus*			1	0.06			1	0.06
39	C	*Typhlocarcinus villosus*	1	0.03	1	0.10	1	0.05	3	0.17
Total			50	0.5442	92	3.1739	53	2.0057	195	5.72

P = Polychaeta, C = Crustacea, M = Mollusca, N = Nemertea, Sp = Sipuncula, Eh = Echiura, Ec = Echinodermata, Cn = Cnidaria

Biomass = 0.00 g / 0.1m^2 : The specimen with total biomass less than 0.01 g / 0.1m^2

Appendix II (cont'd) *List of collected specimens at every sampling site in dry season*

Sampling point: P4			Sampling date: 12/12/2009							
No	Groups	Species	1		2		3		Total	
			Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.
			(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.3m^2)	(g/0.3m^2)
1	P	*Aglaophamus dibranchis*	1	0.00					1	0.00
2	P	*Aglaophamus sinensis*	1	0.01	2	0.01	1	0.01	4	0.02
3	P	*Amphicteis gunneri*	1	0.00					1	0.00
4	P	*Chaetozone* sp.	1	0.00					1	0.00
5	P	*Cossurella dimorpha*	1	0.00			1	0.00	2	0.00
6	P	*Euchymene oerstedii*	2	0.01					2	0.01
7	P	*Glycera tridactyla*	2	0.01			3	0.03	5	0.04
8	P	*Harmothoe imbricata*	3	0.01	6	0.21	3	0.01	12	0.23
9	P	*Magelona* sp.					1	0.00	1	0.00
10	P	*Mediomastus* sp.	27	0.03	30	0.03	28	0.04	85	0.09
11	P	*Notomastus* sp.					1	0.00	1	0.00
12	P	*Ophelina acuminata*					1	0.04	1	0.04
13	P	*Ophiodromus angutifrons*			1	0.00	3	0.00	4	0.01
14	P	*Paralacydonia paradox*					1	0.00	1	0.00
15	P	*Paraprionospio pinnata*			1	0.00			1	0.00

P = Polychaeta, C = Crustacea, M = Mollusca, N = Nemertea, Sp = Sipuncula, Eh = Echiura, Ec = Echinodermata

Biomass = 0.00 g / 0.1m^2 : The specimen with total biomass less than 0.01 g / 0.1m^2

Appendix II (cont'd) *List of collected specimens at every sampling site in dry season*

Sampling point: P4			Sampling date: 12/12/2009							
No	Groups	Species	1		2		3		Total	
			Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.
			(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.3m^2)	(g/0.3m^2)
16	P	*Pectinaria conchilega*	2	0.18	2	0.05			4	0.23
17	P	*Prionospio saccifera nc*	2	0.00					2	0.00
18	P	*Schistomeringos rudolphi*			2	0.00			2	0.00
19	P	*Sigambra hanaokai*	1	0.00	3	0.00	2	0.00	6	0.00
20	P	*Sternaspis sculata*			1	0.00			1	0.00
21	Sp	*Apionsoma trichocephalus*	8	0.01	10	0.03	5	0.03	23	0.07
22	N	Nemertean spp.	1	0.00			1	0.01	2	0.01
23	M	*Nitidotellina iridella*	3	0.04					3	0.04
24	M	*Paphia undulata*					2	0.23	2	0.23
25	M	*Solen dunkerianus*					1	0.07	1	0.07
26	M	*Theora lata*					1	0.01	1	0.01
27	Eh	*Thalassema sabinum*	21	4.80	23	5.00	41	5.68	85	15.48
28	Ec	*Amphioplus laevis*	1	0.00			1	0.00	2	0.01
29	Ec	*Amphioplus lucidus*			2	0.00	2	0.00	4	0.00
30	Ec	*Ophiocnemis marmorata*	1	0.00					1	0.00

P = Polychaeta, C = Crustacea, M = Mollusca, N = Nemertea, Sp = Sipuncula, Eh = Echiura, Ec = Echinodermata

Biomass = 0.00 g / 0.1m^2 : The specimen with total biomass less than 0.01 g / 0.1m^2

Appendix II (cont'd) *List of collected specimens at every sampling site in dry season*

Sampling point: P4			Sampling date: 12/12/2009							
No	Groups	Species	1		2		3		Total	
			Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.	Ind.	Wet wt.
			(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.1m^2)	(g/0.1m^2)	(/0.3m^2)	(g/0.3m^2)
31	C	Amphipod spp.	5	0.00	1	0.00	3	0.00	9	0.00
32	C	*Neoxenophthalmus obscurus*			2	0.06			2	0.06
33	C	*Raphidopus ciliatus*			1	0.02	4	0.15	5	0.17
34	C	*Tritodynamia longipropodum*					1	0.05	1	0.05
35	C	*Typhlocarcinus villosus*					2	0.11	2	0.11
36	C	Unidentified juvenile shrimp					1	0.00	1	0.00
37	C	*Xenophthalmus pinnotheroides*			1	0.32			1	0.32
Total			84	5.1177	88	5.7328	110	6.4775	282	17.33

P = Polychaeta, C = Crustacea, M = Mollusca, N = Nemertea, Sp = Sipuncula, Eh = Echiura, Ec = Echinodermata

Biomass = 0.00 g / 0.1m^2 : The specimen with total biomass less than 0.01 g / 0.1m^2