

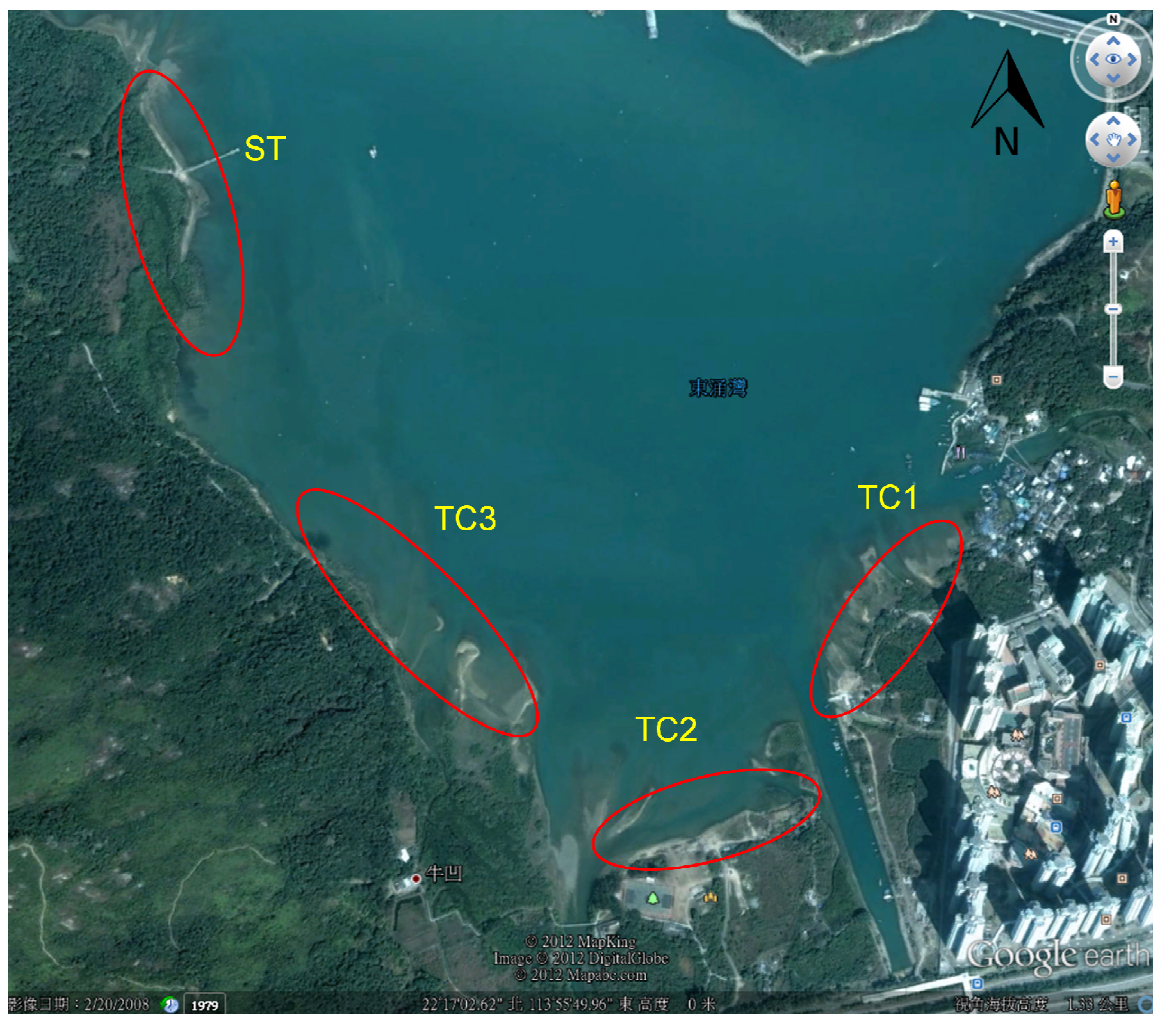


Figure 2.1. *The study site was divided into three sampling zones (TC1, TC2, TC3) in Tung Chung Bay and one zone in San Tau (ST) (map generated from Google Map).*

Table 3.1. Record of horseshoe crab survey in every sampling zone.

Ind. #	Sub.	GPS coordinate			Record of prosomal width (mm)						
<u>Sampling site TC1 (Search hour = 2 hrs)</u>											
<i>Carcinoscorpius rotundicauda</i>											
1	M	22° 17.015' N	113° 55.978' E	49.65							
5	S	22° 17.006' N	113° 55.988' E	14.39	48.53	49.93	51.91	52.25			
1	S	22° 17.005' N	113° 55.990' E	14.82							
1	S	22° 17.007' N	113° 55.992' E	51.83							
1	S	22° 17.012' N	113° 55.994' E	11.67							
1	S	22° 17.024' N	113° 55.981' E	44.22							
2	M	22° 17.039' N	113° 55.974' E	52.9	77.3						
8	M	22° 17.088' N	113° 56.047' E	31.61	33.5	48.06	48.91	50.93	55.37	64.99	72.09
1	M	22° 17.087' N	113° 56.049' E	47.41							
1	M	22° 17.083' N	113° 56.052' E	51.03							
1	M	22° 17.087' N	113° 56.057' E	43.94							
1	M	22° 17.091' N	113° 56.061' E	59.79							

Ind. #: number of Individuals (individuals in a group are shown at the same row)

Sub.: Substratum type; G = Gravel and Boulders, M = Soft mud, S = Sand

Table 3.1 (Cont'd). *Record of horseshoe crab survey in every sampling zone.*

Ind. #	Sub.	GPS coordinate		Record of prosomal width (mm)			
<u>Sampling site TC2 (Search hour = 2 hrs)</u>							
<i>Carcinoscorpius rotundicauda</i>							
1	S	22° 16.905' N	113° 55.859' E	36.19			
<u>Sampling site TC3 (Search hour = 2 hrs)</u>							
<i>Carcinoscorpius rotundicauda</i>							
1	S	22° 16.962' N	113° 55.693' E	33.23			
4	S	22° 16.947' N	113° 55.705' E	16.2	16.72	20.75	23.06
2	S	22° 16.952' N	113° 55.718' E	15.42	24.47		
4	S	22° 16.971' N	113° 55.680' E	11.78	14.92	21.55	24.17
1	S	22° 16.986' N	113° 55.652' E	31.22			
1	S	22° 16.952' N	113° 55.669' E	16.58			
1	S	22° 16.976' N	113° 55.649' E	10.67			
3	S	22° 17.005' N	113° 55.654' E	31.89	34.64	48.73	
1	S	22° 17.089' N	113° 55.577' E	50.17			
3	S	22° 17.064' N	113° 55.615' E	27.68	51.09	52.1	
1	M	22° 17.044' N	113° 55.632' E	49.15			

Ind. #: number of Individuals (individuals in a group are shown at the same row)

Sub.: Substratum type; G = Gravel and Boulders, M = Soft mud, S = Sand

Table 3.1 (Cont'd). *Record of horseshoe crab survey in every sampling zone.*

Ind. #	Sub.	GPS coordinate		Record of prosomal width (mm)		
<u>Sampling site TC3 (Search hour = 2 hrs)</u>						
<i>Tachypleus tridentatus</i>						
2	S	22° 17.087' N	113° 55.578' E	40.53	41.6	
2	S	22° 17.076' N	113° 55.606' E	36.92	45.93	
3	S	22° 17.065' N	113° 55.614' E	28.14	34.52	51.77
3	M	22° 17.050' N	113° 55.628' E	47.58	52.37	65.66
1	S	22° 17.025' N	113° 55.638' E	36.24		

Ind. #: number of Individuals (individuals in a group are shown at the same row)

Sub.: Substratum type; G = Gravel and Boulders, M = Soft mud, S = Sand

Table 3.1 (Cont'd). *Record of horseshoe crab survey in every sampling zone.*

Ind. #	Sub.	GPS coordinate		Record of prosomal width (mm)			
<u>Sampling site ST (Search hour = 3 hrs)</u>							
<i>Carcinoscorpius rotundicauda</i>							
3	S	22° 17.369' N	113° 55.481' E	42.75	51.78	55.9	
1	S	22° 17.255' N	113° 55.512' E	52.3			
4	S	22° 17.239' N	113° 55.497' E	44.11	46.16	50.6	60.15
1	S	22° 17.226' N	113° 55.497' E	20.73			
4	S	22° 17.216' N	113° 55.484' E	43.97	47.44	66.94	70.52
1	S	22° 17.210' N	113° 55.480' E	47.86			
3	S	22° 17.189' N	113° 55.492' E	44.91	47.23	58.67	
1	S	22° 17.190' N	113° 55.478' E	49.23			
2	S	22° 17.187' N	113° 55.475' E	50.99	61.91		
4	S	22° 17.173' N	113° 55.494' E	46.01	46.47	46.6	50.06
2	S	22° 17.147' N	113° 55.509' E	32.3	48.74		
3	M	22° 17.137' N	113° 55.530' E	62.38	82.89	84.84	
1	M	22° 17.104' N	113° 55.557' E	59.61			

Ind. #: number of Individuals (individuals in a group are shown at the same row)

Sub.: Substratum type; G = Gravel and Boulders, M = Soft mud, S = Sand

Table 3.1 (Cont'd). *Record of horseshoe crab survey in every sampling zone.*

Ind. #	Sub.	GPS coordinate		Record of prosomal width (mm)							
<u>Sampling site ST (Search hour = 3 hrs)</u>											
<i>Tachypleus tridentatus</i>											
1	S	22° 17.385' N	113° 55.459' E	48.52							
1	S	22° 17.370' N	113° 55.481' E	58.35							
1	S	22° 17.245' N	113° 55.513' E	53.61							
2	S	22° 17.226' N	113° 55.495' E	42.51	43.18						
5	S	22° 17.216' N	113° 55.483' E	57.56	64.71	66.71	68.62	69.75			
4	S	22° 17.211' N	113° 55.480' E	48.18	51.22	51.22	69.65				
3	S	22° 17.189' N	113° 55.492' E	65.08	65.15	68.5					
1	S	22° 17.190' N	113° 55.480' E	73.08							
1	S	22° 17.188' N	113° 55.480' E	65							
1	S	22° 17.172' N	113° 55.492' E	54.84							
1	S	22° 17.161' N	113° 55.482' E	56.94							
8	S	22° 17.151' N	113° 55.499' E	37.97	40.66	43.62	45.91	50.79	51.6	52.5	56.19
4	S	22° 17.143' N	113° 55.510' E	39.45	39.59	54.34	57.62				
1	S	22° 17.135' N	113° 55.511' E	30.46							

Ind. #: number of Individuals (individuals in a group are shown at the same row)

Sub.: Substratum type; G = Gravel and Boulders, M = Soft mud, S = Sand

Table 3.1 (Cont'd). *Record of horseshoe crab survey in every sampling zone.*

Ind. #	Sub.	GPS coordinate		Record of prosomal width (mm)			
<u>Sampling site ST (Search hour = 3 hrs)</u>							
<i>Tachypleus tridentatus</i>							
2	M	22° 17.136' N	113° 55.527' E	54.72	60.53		
4	M	22° 17.125' N	113° 55.544' E	28.83	39.44	39.67	39.71
1	M	22° 17.109' N	113° 55.555' E	40.81			
1	M	22° 17.100' N	113° 55.558' E	40.89			
2	M	22° 17.096' N	113° 55.565' E	40.12	41.25		

Ind. #: number of Individuals (individuals in a group are shown at the same row)

Sub.: Substratum type; G = Gravel and Boulders, M = Soft mud, S = Sand

Table 3.2. *Summary of horseshoe crab survey in every sampling zone.*

	TC1	TC2	TC3	ST
Search duration (hr)	2	2	2	3
<i>Carcinoscorpius rotundicauda</i>				
no. of individuals	24	1	22	30
mean prosomal width (mm)	46.96	36.19	28.46	52.47
max. prosomal width (mm)	77.30	36.19	52.10	84.84
min. prosomal width (mm)	11.67	36.19	10.67	20.73
Search record (ind. hr-1 person-1)	6.0	0.3	5.5	5.0
<i>Tachypleus tridentatus</i>				
no. of individuals			11	44
mean prosomal width (mm)			43.75	51.57
max. prosomal width (mm)	N.A.	N.A.	65.66	73.08
min. prosomal width (mm)			28.14	28.83
Search record (ind. hr-1 person-1)			2.8	7.3

TC1 *Carcinoscorpius rotundicauda*



TC2 *Carcinoscorpius rotundicauda*



TC3 *Carcinoscorpius rotundicauda*



Figure 3.1. Examples of photographic records of horseshoe crab *Carcinoscorpius rotundicauda* and *Tachypleus tridentatus* (13 & 16 Jun. 2014)

TC3 *Tachypleus tridentatus*



ST *Carcinoscorpius rotundicauda*



ST *Tachypleus tridentatus*



Figure 3.1 (Cont'd). Examples of photographic records of horseshoe crab *Carcinoscorpius rotundicauda* and *Tachypleus tridentatus* (13 & 16 Jun. 2014)

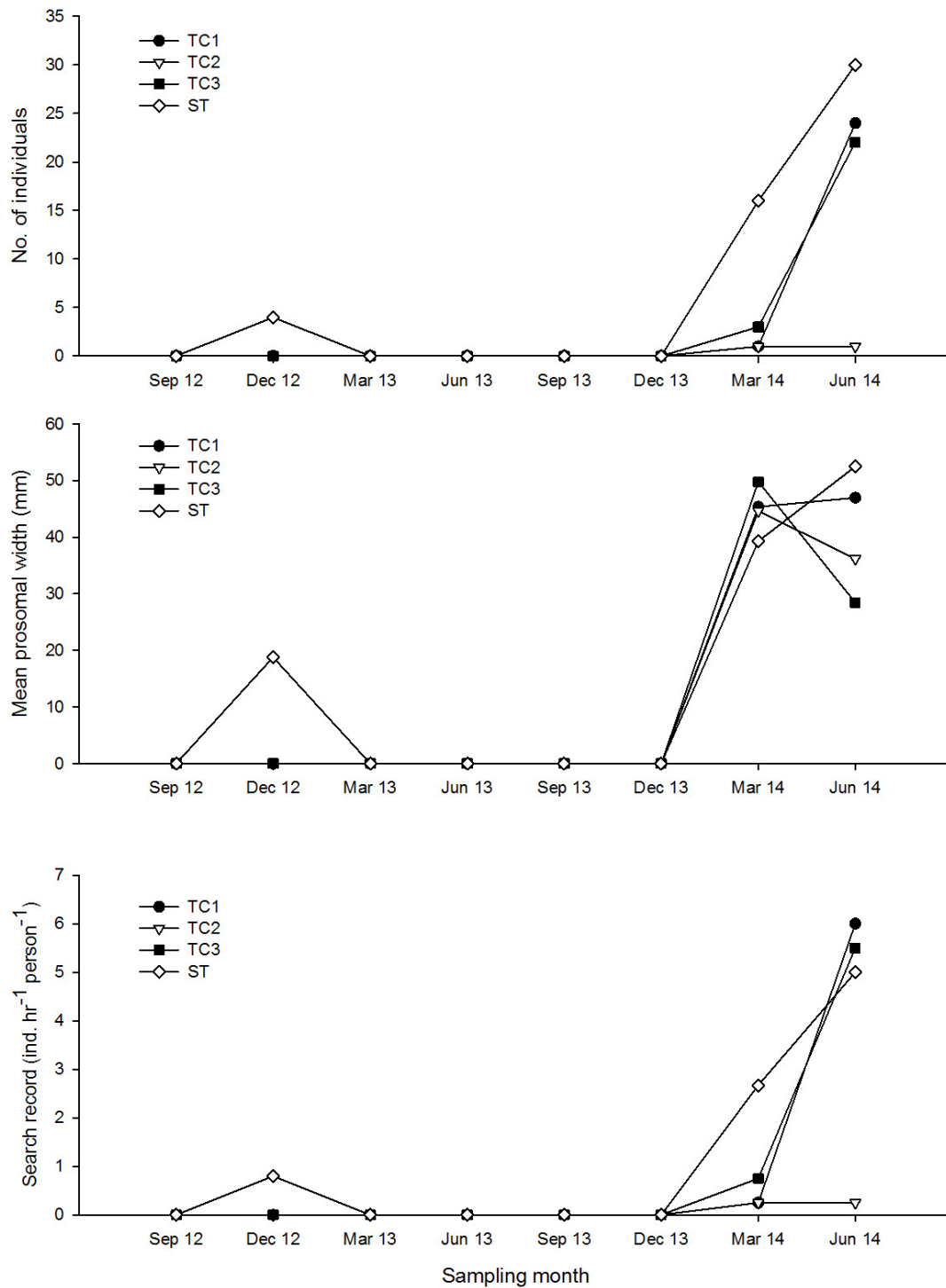


Figure 3.2. Changes of number of individuals, mean prosomal width and search record of horseshoe crab *Carcinoscorpius rotundicauda* in every sampling zones along the sampling months.

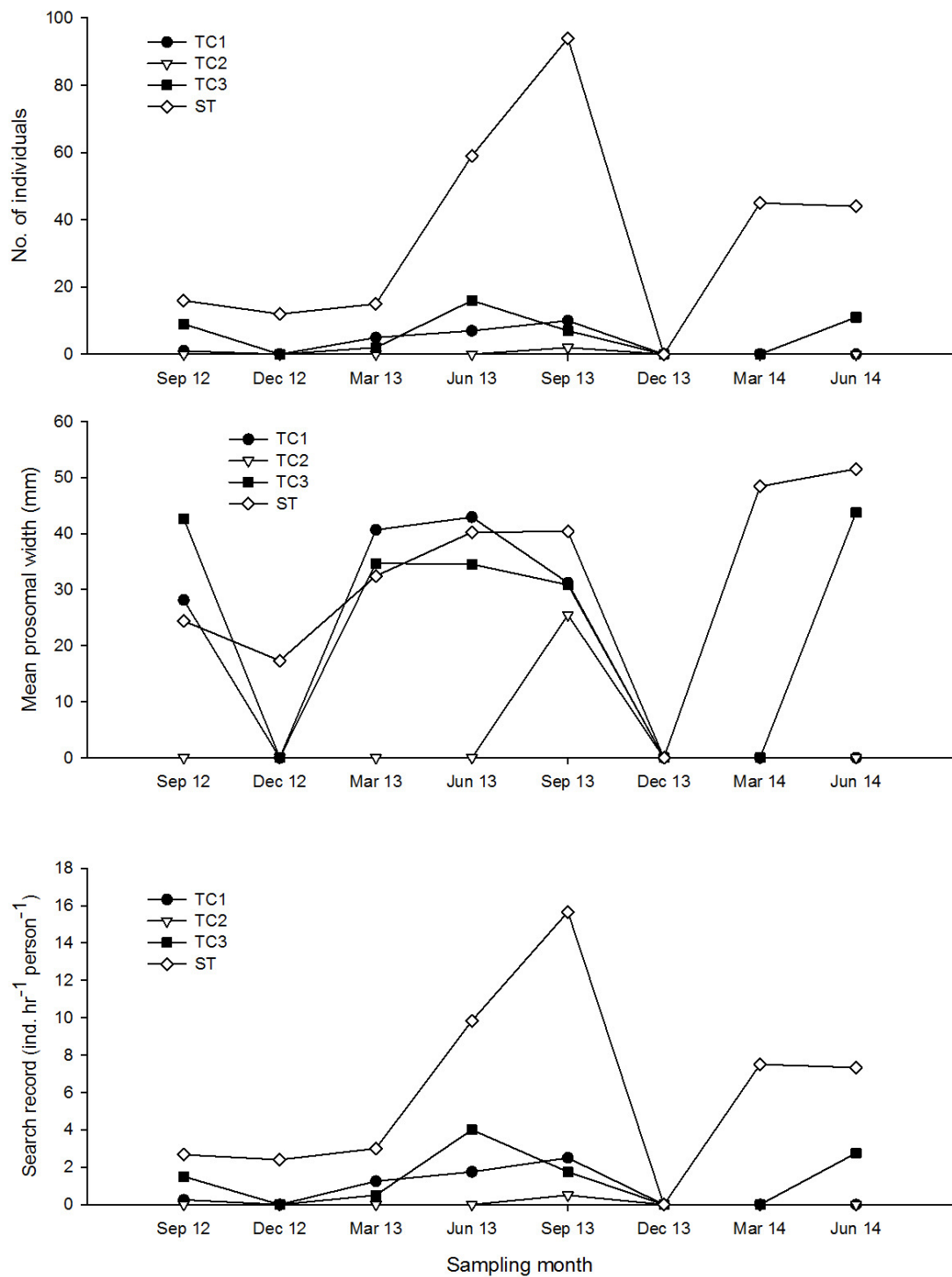


Figure 3.3. Changes of number of individuals, mean prosomal width and search record of horseshoe crab *Tachypleus tridentatus* in every sampling zones along the sampling months.

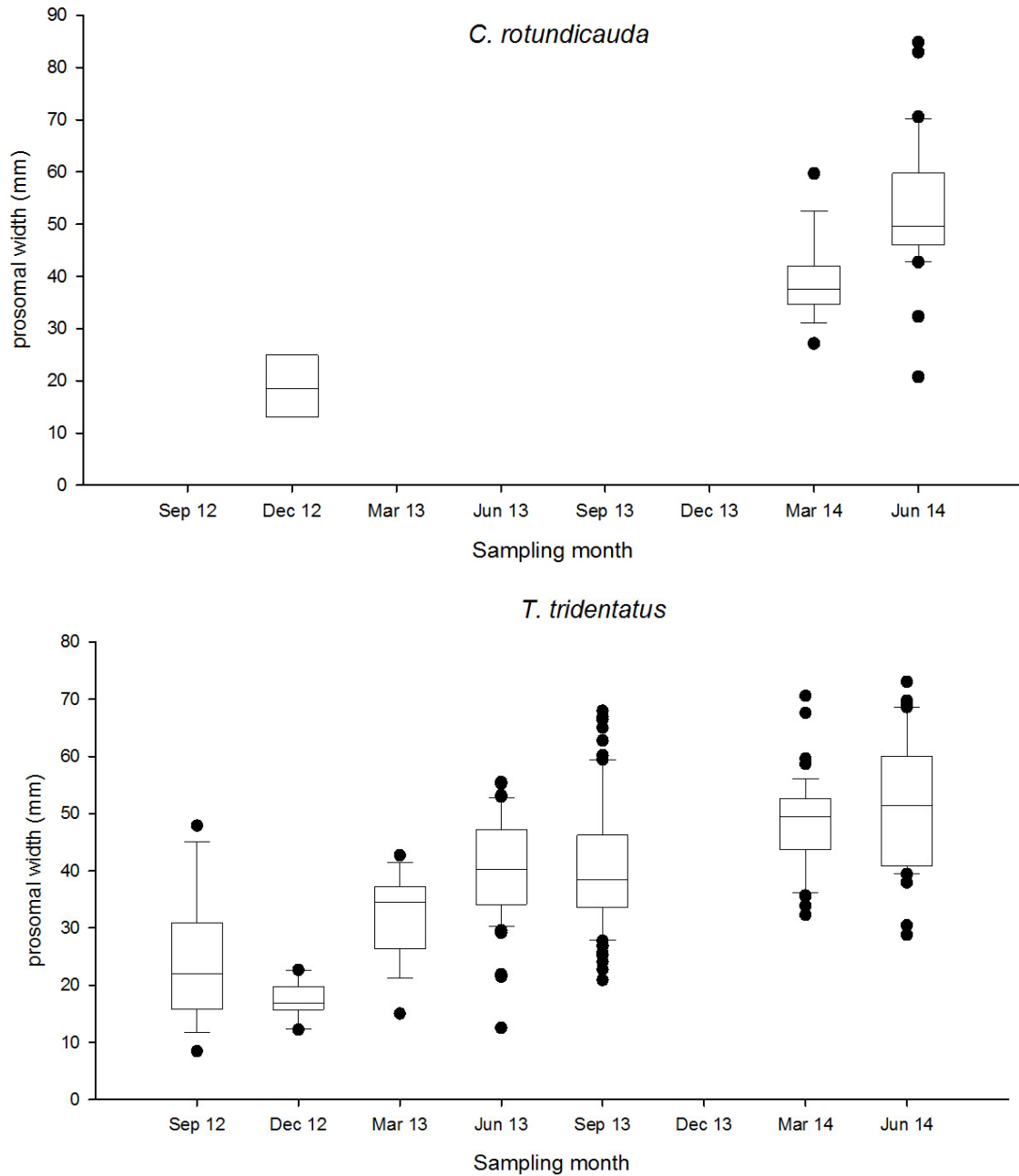


Figure 3.4. Box plot of prosomal width of horseshoe crab in the sampling zone ST along the sampling months. (The box represents 50% of the sample (upper to lower quartile) with a middle line showing the median value. The upper whisker and lower whisker showed the 25% of sample above upper quartile and below the lower quartile respectively. The black circle dots showed the data of outlier.)

Table 3.3. *Record of seagrass beds survey in every sampling zone*

Estimated area (m ²)	Estimated coverage (%)	GPS coordinate			Remark
TC1 (search hour = 2 hrs) & TC2 (search hour = 2 hrs) & TC3 (search hour = 2 hrs)					
No record					
ST (search hour = 3 hrs)		Halophila ovalis			
404.4	90	Horizontal ends	22° 17.208' N	113° 55.474' E	-- A large patch of seagrass bed nearby the seaward side of mangrove area at tidal level 2.0m above C.D.
			22° 17.196' N	113° 55.472' E	
65.3	70-80	Horizontal ends	22° 17.213' N	113° 55.476' E	-- A medium patch of seagrass bed nearby the seaward side of mangrove area at tidal level 2.0m above C.D.
			22° 17.204' N	113° 55.480' E	
1116.3	60-80	Vertical ends	22° 17.182' N	113° 55.474' E	-- A large area of seagrass bed in patchy distribution on soft mud between 0.5 and 1.5 m above C.D.
			22° 17.182' N	113° 55.489' E	
		Horizontal ends	22° 17.192' N	113° 55.476' E	
Horizontal ends	22° 17.169' N		113° 55.479' E		
2442.6	40-60	Vertical ends	22° 17.171' N	113° 55.498' E	-- A large area of seagrass bed in patchy distribution on soft mud between 0.5 and 1.5 m above C.D.
			22° 17.152' N	113° 55.497' E	
		Horizontal ends	22° 17.163' N	113° 55.481' E	
Horizontal ends	22° 17.160' N		113° 55.521' E		

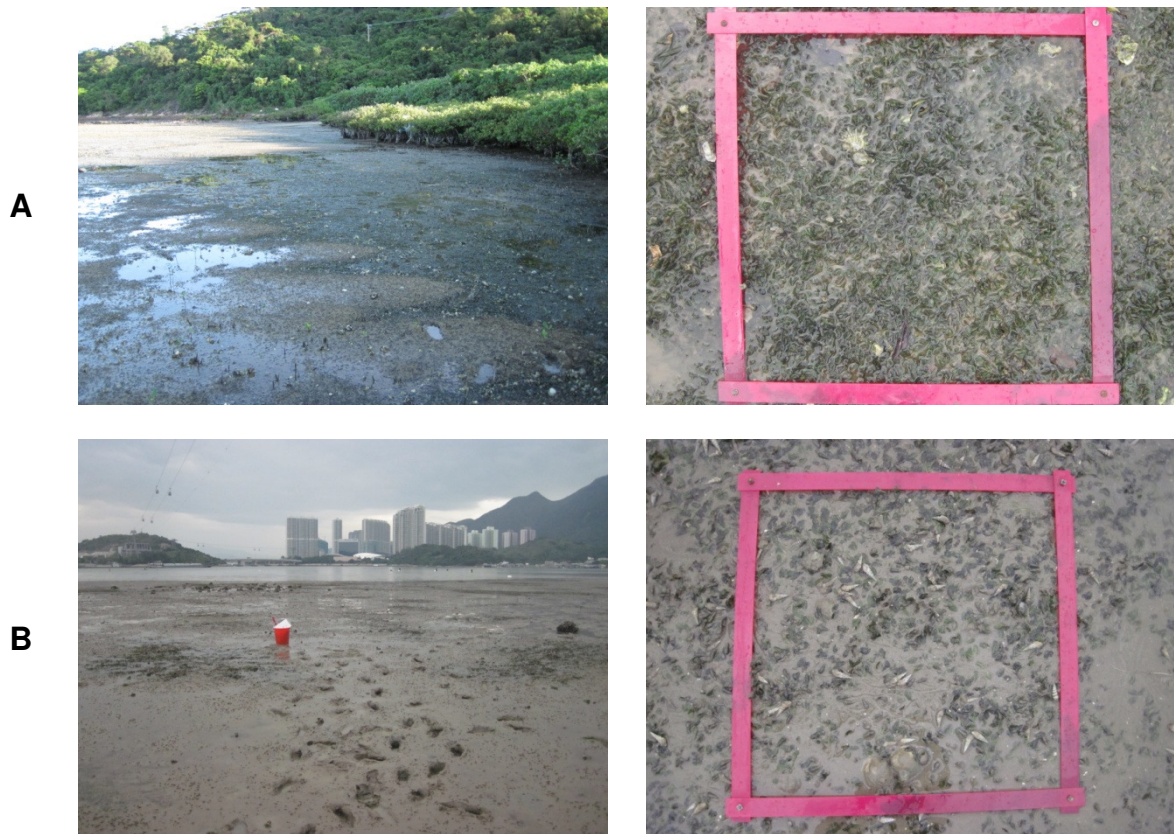
Table 3.3 (Cont'd). *Record of seagrass beds survey in every sampling zone*

Estimated area (m ²)	Estimated coverage (%)	GPS coordinate		Remark
ST (search hour = 3 hrs) <i>Halophila ovalis</i>				
2227.4	70-80	Vertical ends	22 ^o 17.140' N 113 ^o 55.516' E	-- A large area of seagrass bed in patchy distribution on soft mud between 0.5 and 1.5 m above C.D.
			22 ^o 17.154' N 113 ^o 55.542' E	
		Horizontal ends	22 ^o 17.129' N 113 ^o 55.530' E	--
			22 ^o 17.152' N 113 ^o 55.529' E	
1373.4	40-50	Vertical ends	22 ^o 17.109' N 113 ^o 55.552' E	-- A large area of seagrass bed in patchy distribution on soft mud between 0.5 and 1.5 m above C.D.
			22 ^o 17.113' N 113 ^o 55.566' E	
		Horizontal ends	22 ^o 17.118' N 113 ^o 55.549' E	--
			22 ^o 17.093' N 113 ^o 55.566' E	
ST (search hour = 3 hrs) <i>Zostera japonica</i>				
0.5	60	\	22 ^o 17.209' N 113 ^o 55.474' E	A small patch grown in the co-inhabting another seagrass species <i>Halophila ovalis</i>
25.7	85	\	22 ^o 17.205' N 113 ^o 55.472' E	A small patch grown in the co-inhabting another seagrass species <i>Halophila ovalis</i>
15.2	40	\	22 ^o 17.214' N 113 ^o 55.476' E	A small patch grown in the co-inhabting another seagrass species <i>Halophila ovalis</i>

Table 3.4. *Summary of seagrass survey in sampling zone ST.*

Summary	<i>Halophila ovalis</i>	<i>Zostera japonica</i>
no. of patches	6	3
Total area (m²)	7629.4	41.32
Average area (m²)	1271.57	13.77

Halophila ovalis



Zostera japonica



Figure 3.5. Examples of photographic records of seagrass beds survey in ST (13 Jun. 2014)



Figure 3.6. *Photographic records of flower of seagrass bed Halophila ovalis (18 Dec. 2013)*

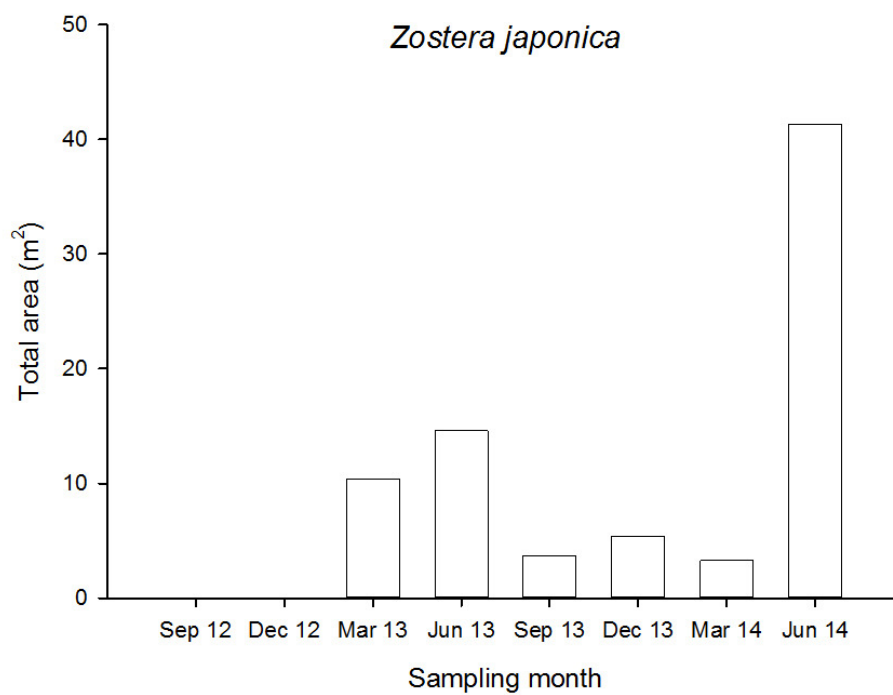
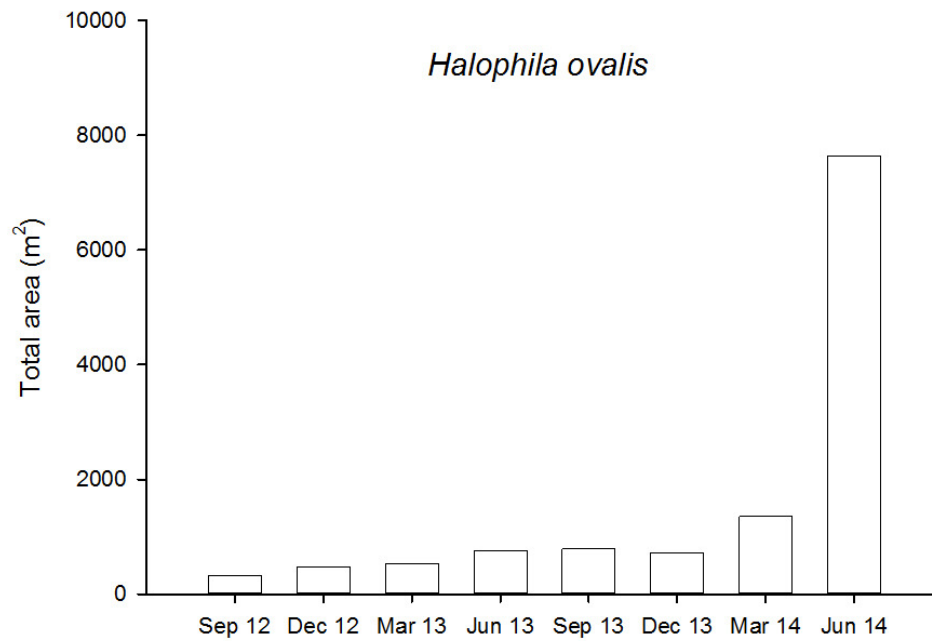


Figure 3.7. Changes of estimated total area of seagrass beds in ST along the sampling months

Table 3.5. *Relative distribution (%) of types of substratum along the horizontal transect at every tidal level and in every sampling zone.*

Sampling zone	Tidal level	Percentage		
		Gravels and Boulders	Sands	Soft mud
TC1	H	50	50	
	M	90	10	
	L	20	20	60
TC2	H	10	60	30
	M	30	30	40
	L		30	70
TC3	H		100	
	M		60	40
	L	80		20
ST	H	100		
	M	100		
	L	20	20	60

H: 2.0 m above C.D.; M: 1.5 m above C.D.; L: 1.0 m above C.D.

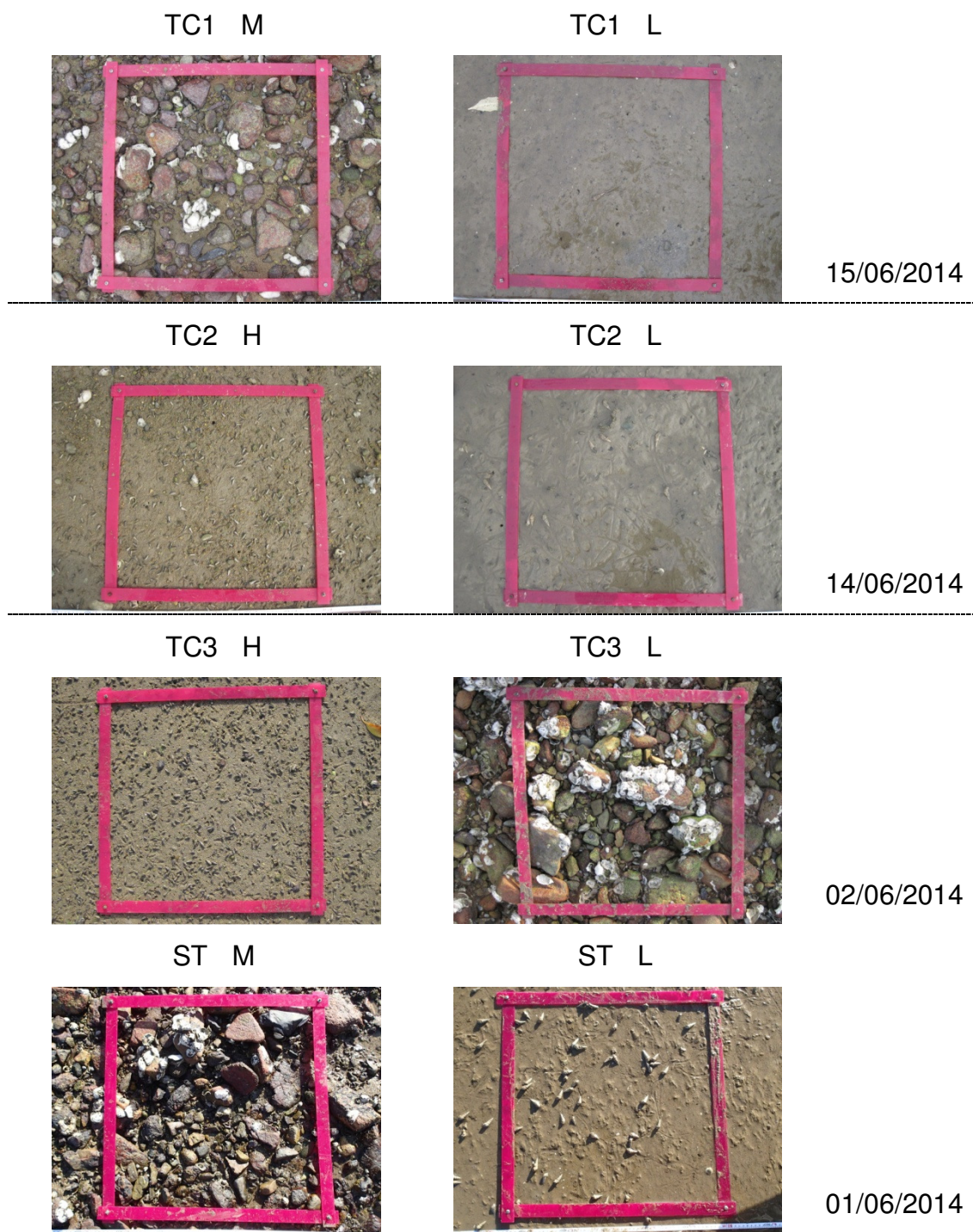


Figure 3.8. *Examples of photographic records of quadrat for intertidal soft shore community survey (H: 2.0 m above C.D.; M: 1.5 m above C.D.; L: 1.0 m above C.D.)*

Table 3.6. *Total abundance, density and number of taxon of every phylum*

Phylum	Total Abundance	%	Density (ind. m ⁻²)	Number of taxon
<i>Jun 2014</i>				
Mollusca	17439	97.4	581	45
Arthropoda	210	1.2	7	15
Annelida	160	0.9	5	11
Cnidaria	39	0.2	1	1
Sipuncula	27	0.2	1	1
Echinodermata	10	0.1	0	2
Nemertea	10	0.1	0	1
Chordata	1	0.0	0	1
Total	17896			

0.0 %: Total abundance of the phylum is less than 0.1% of relative abundance.

0 ind. m⁻²: Density of the phylum is less than 1 ind. m⁻².

Table 3.7. *The number of individuals, relative abundance (percentage) and density of each phylum in every sampling zone.*

Phylum	TC1	%	Density (ind. m ⁻²)	TC2	%	Density (ind. m ⁻²)	TC3	%	Density (ind. m ⁻²)	ST	%	Density (ind. m ⁻²)
Annelida	39	1.0	5	76	2.3	10	31	0.5	4	14	0.4	2
Arthropoda	58	1.4	8	74	2.2	10	51	0.8	7	27	0.7	4
Chordata				1	0.0	0						
Cnidaria	4	0.1	1	1	0.0	0				34	0.9	5
Echinodermata	3	0.1	0	6	0.2	1	1	0.0	0			
Mollusca	3889	97.1	519	3191	95.1	425	6625	98.7	883	3734	97.7	498
Nemertea	4	0.1	1	1	0.0	0	3	0.0	0	2	0.1	0
Sipuncula	8	0.2	1	5	0.1	1	2	0.0	0	12	0.3	2
Sub-total	4005			3355			6713			3823		

0.0 %: Total abundance of the phylum is less than 0.1% of relative abundance of the sampling zone.

0 ind. m⁻²: Density of the phylum is less than 1 ind. m⁻² of the sampling zone.

Table 3.8. *The abundant species (relative abundance >10%) in every sampling zone.*

Sampling zone TC1	Group	Species	mean density (ind. m ⁻²)	relative abundance (%)	cumulative relative abundance (%)
High	G	<i>Batillaria multiformis</i>	323	63	63
	G	<i>Cerithidea cingulata</i>	79	15	78
Mid	G	<i>Batillaria multiformis</i>	321	49	49
	G	<i>Cerithidea djadjariensis</i>	110	17	66
	G	<i>Monodonta labio</i>	74	11	77
Low	G	<i>Batillaria zonalis</i>	75	17	17
	Bi	<i>Saccostrea cucullata</i>	68	16	33
	G	<i>Cerithidea djadjariensis</i>	64	15	48

Bi = Bivalve, G = Gastropod

Table 3.8 (Cont'd). *The abundant species (relative abundance >10%) in every sampling zone.*

Sampling zone TC2	Group	Species	mean density (ind. m ⁻²)	relative abundance (%)	cumulative relative abundance (%)
High	G	<i>Cerithidea djadjariensis</i>	363	52	52
	G	<i>Cerithidea cingulata</i>	210	30	83
Mid	G	<i>Cerithidea djadjariensis</i>	126	32	32
	Bi	<i>Saccostrea cucullata</i>	72	18	50
	G	<i>Batillaria zonalis</i>	41	10	60
Low	G	<i>Cerithidea djadjariensis</i>	135	53	53
	G	<i>Batillaria zonalis</i>	44	18	71

Bi = Bivalve, G = Gastropod

Table 3.8 (Cont'd). *The abundant species (relative abundance >10%) in every sampling zone.*

Sampling zone TC3	Group	Species	mean density (ind. m ⁻²)	relative abundance (%)	cumulative relative abundance (%)
High	G	<i>Batillaria multiformis</i>	810	62	62
	G	<i>Cerithidea djadjariensis</i>	302	23	85
	G	<i>Cerithidea cingulata</i>	144	11	96
Mid	G	<i>Cerithidea djadjariensis</i>	284	47	47
	G	<i>Cerithidea cingulata</i>	172	29	76
	G	<i>Batillaria multiformis</i>	62	10	86
Low	Bi	<i>Saccostrea cucullata</i>	212	27	27
	G	<i>Batillaria multiformis</i>	206	27	54
	G	<i>Monodonta labio</i>	168	22	75

Bi = Bivalve, G = Gastropod

Table 3.8 (Cont'd). *The abundant species (relative abundance >10%) in every sampling zone.*

Sampling zone ST	Group	Species	mean density (ind. m ⁻²)	relative abundance (%)	cumulative relative abundance (%)
High	G	<i>Batillaria multiformis</i>	332	50	50
	G	<i>Monodonta labio</i>	83	12	62
	Bi	<i>Saccostrea cucullata</i>	77	12	74
Mid	G	<i>Monodonta labio</i>	134	21	21
	Bi	<i>Saccostrea cucullata</i>	131	21	42
	G	<i>Batillaria multiformis</i>	97	15	58
	G	<i>Cellana toreuma</i>	88	14	72
Low	G	<i>Cerithidea djadjariensis</i>	55	23	23
	G	<i>Batillaria zonalis</i>	51	22	45
	Bi	<i>Saccostrea cucullata</i>	43	18	63
	G	<i>Batillaria bornii</i>	25	11	74

Bi = Bivalve, G = Gastropod

Table 3.9. *Mean values of number of species, density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) at every tidal level and in every sampling zone*

Sampling zone	Tidal level	Mean number of species (spp. 0.25 m ⁻²)	Mean density (ind. m ⁻²)	Mean H'	Mean H' across tidal level	Mean J	Mean J across tidal level
TC1	H	9	516	1.04	1.35	0.48	0.57
	M	11	655	1.33		0.57	
	L	13	431	1.67		0.66	
TC2	H	9	692	1.13	1.39	0.55	0.62
	M	12	397	1.72		0.71	
	L	9	253	1.32		0.61	
TC3	H	9	1309	0.95	1.22	0.46	0.55
	M	9	600	1.31		0.60	
	L	11	776	1.40		0.58	
ST	H	12	665	1.56	1.60	0.64	0.66
	M	14	628	1.89		0.73	
	L	9	236	1.34		0.62	

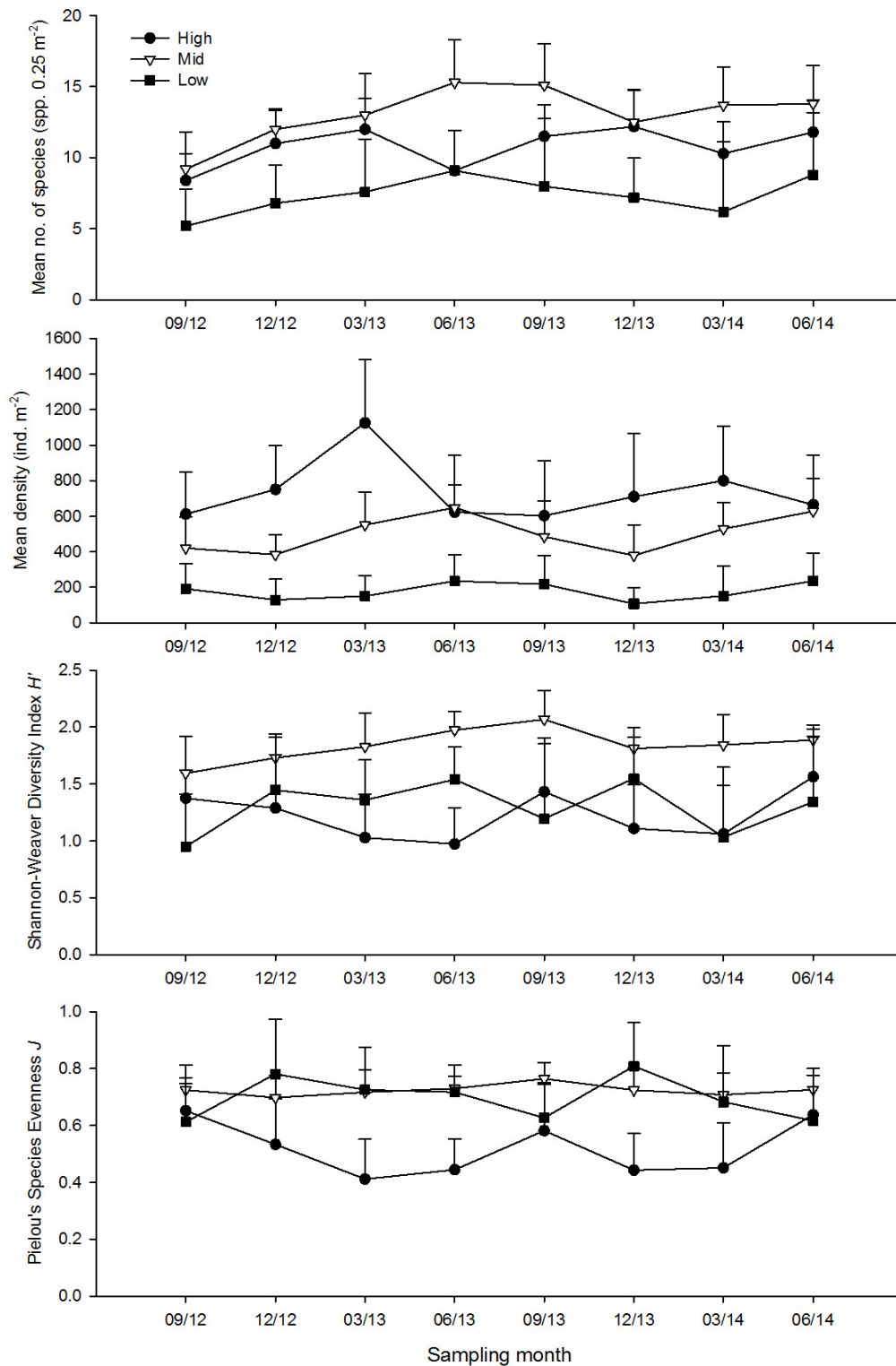


Figure 3.9. Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC1

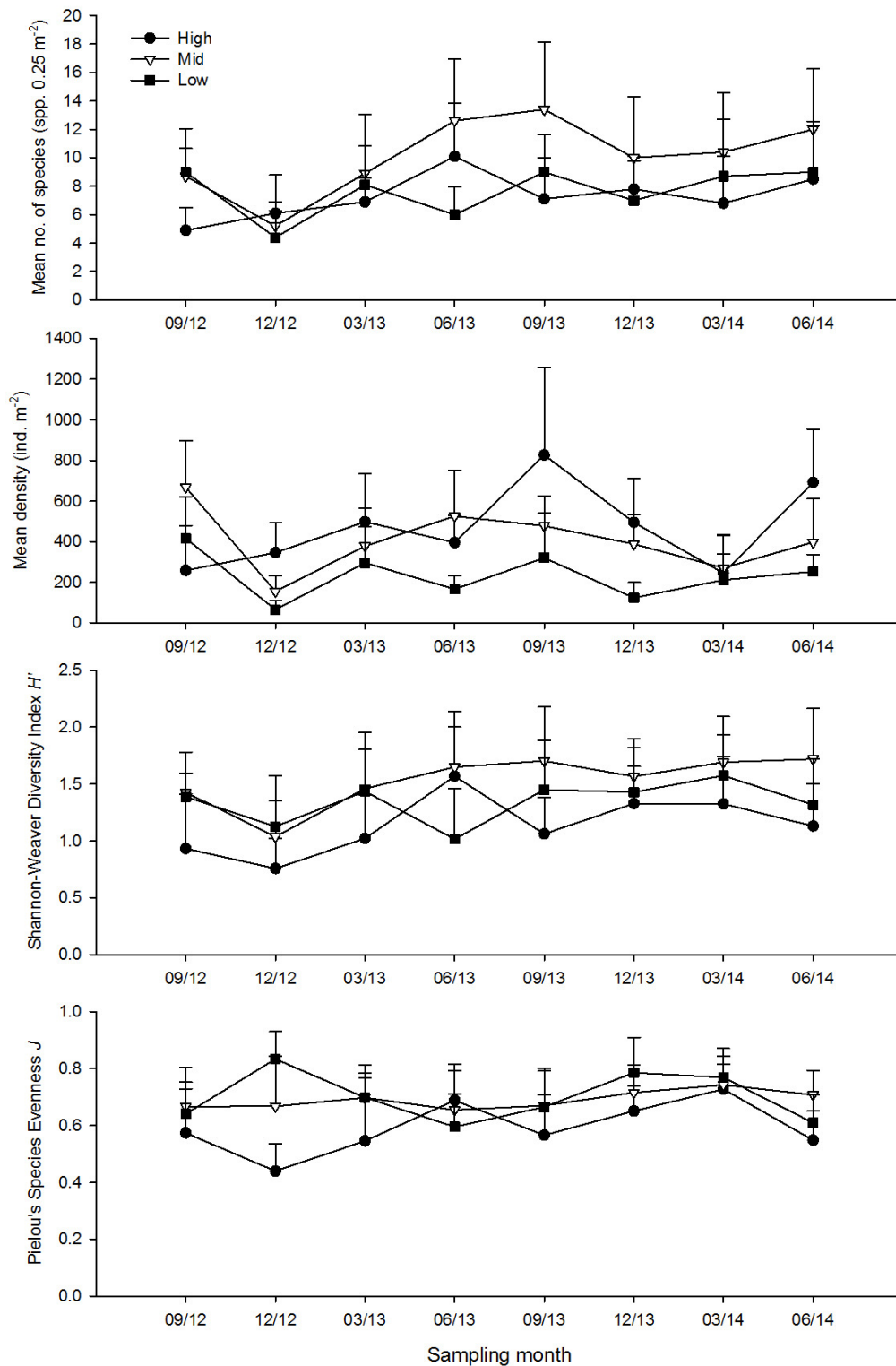


Figure 3.10. Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC2

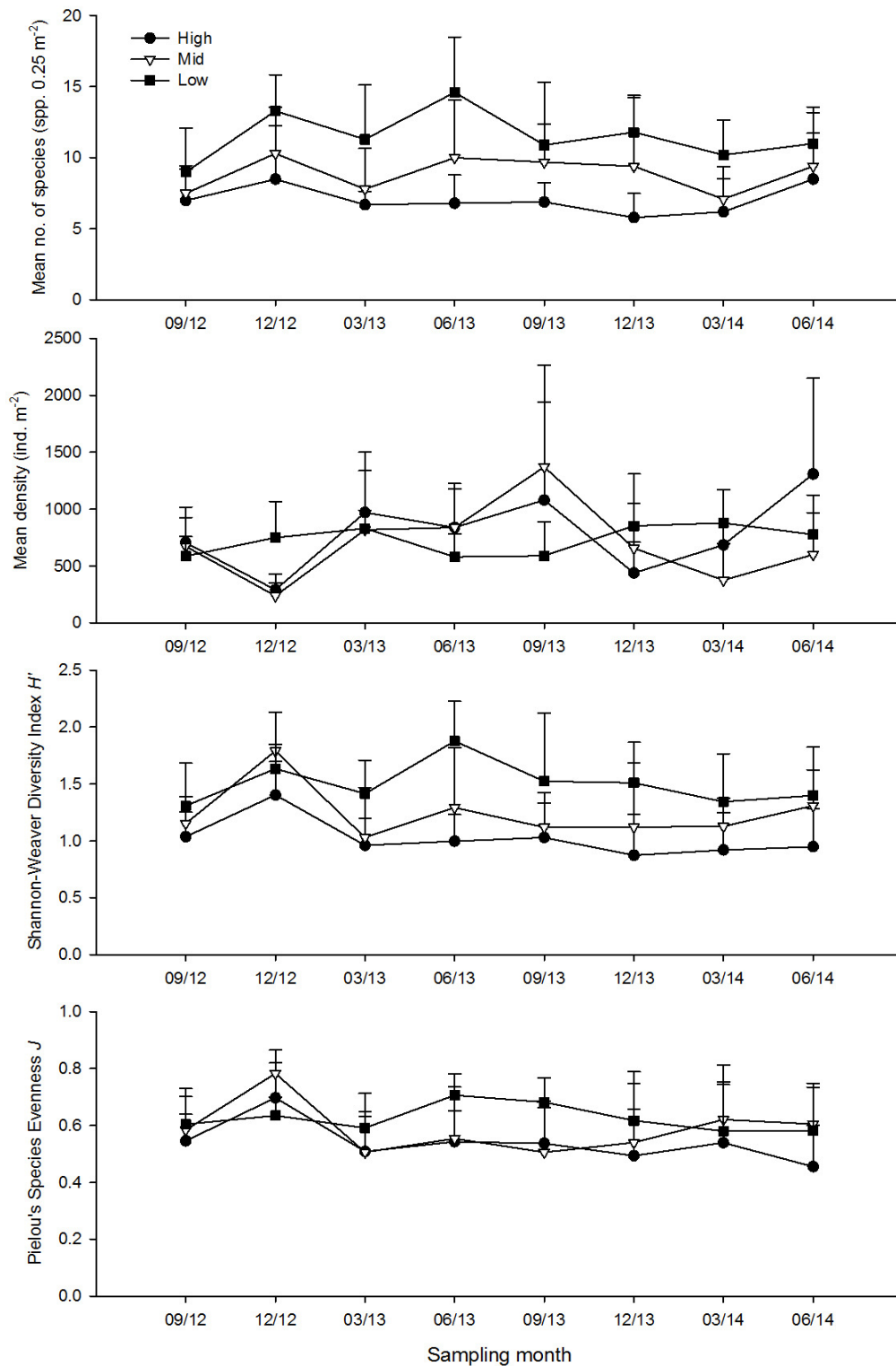


Figure 3.11. Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC3

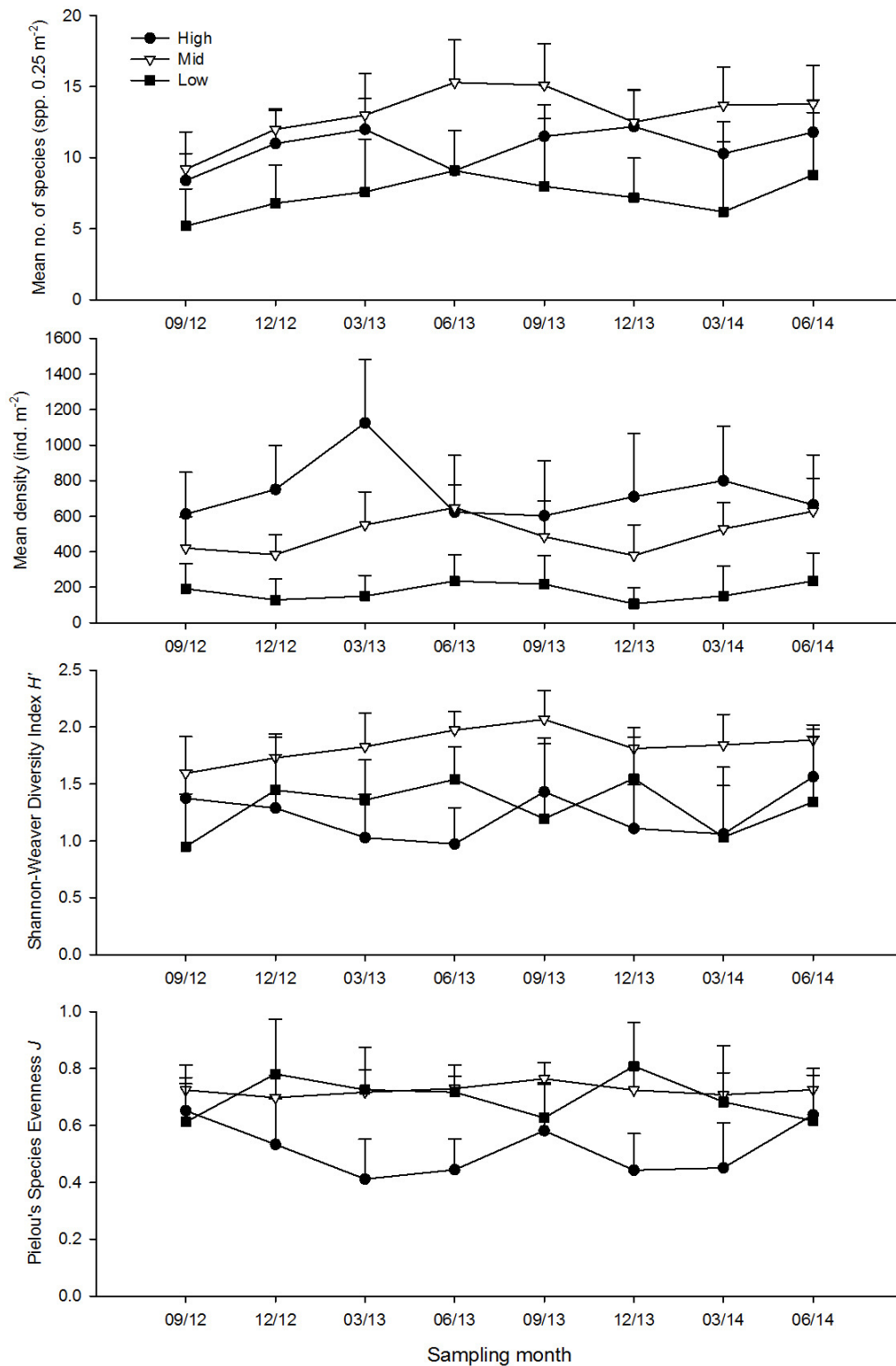


Figure 3.12. Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone ST

4 References

- Chan, K.K., Caley, K.J., 2003. Sandy Shores, Hong Kong Field Guides 4. The Department of Ecology & Biodiversity, The University of Hong Kong. pp 117.
- Dai, A.Y., Yang, S.L., 1991. Crabs of the China Seas. China Ocean Press. Beijing.
- Dong, Y.M., 1991. Fauna of ZheJiang Crustacea. Zhejiang Science and Technology Publishing House. ZheJiang.
- EPD, 1997. Technical Memorandum on Environmental Impact Assessment Process (1st edition). Environmental Protection Department, HKSAR Government.
- Fauchald, K., 1977. The polychaete worms. Definitions and keys to the orders, families and genera. Natural History Museum of Los Angeles County, Science Series 28. Los Angeles, U.S.A..
- Li, H.Y., 2008. The Conservation of Horseshoe Crabs in Hong Kong. MPhil Thesis, City University of Hong Kong, pp 277.
- Pielou, E.C., 1966. Shannon's formula as a measure of species diversity: its use and misuse. American Naturalist 100, 463-465.
- Qi, Z.Y., 2004. Seashells of China. China Ocean Press. Beijing, China.
- Shannon, C.E., Weaver, W., 1963. The Mathematical Theory of Communication. Urbana: University of Illinois Press, USA.
- Shin, P.K.S., Li, H.Y., Cheung, S.G., 2009. Horseshoe Crabs in Hong Kong: Current Population Status and Human Exploitation. Biology and Conservation of Horseshoe Crabs (part 2), 347-360.
- Yang, D.J., Sun, R.P., 1988. Polychaetous annelids commonly seen from the Chinese waters (Chinese version). China Agriculture Press, China.

Annex I *Location of sampling zones (map from ATKINS China Ltd.)*



Annex II *Taxonomic resolution of every recorded species of intertidal soft shore community survey*

Kingdom	Phylum	Class	Order	Family	Species
Animalia	Annelida	Clitellata			Marine oligochaete spp.
Animalia	Annelida	Polychaeta	Eunicida	Onuphidae	Onuphidae spp.
Animalia	Annelida	Polychaeta	Phyllodocida	Polynoidae	Polynoidae spp.
Animalia	Annelida	Polychaeta	Phyllodocida	Glyceridae	Glyceridae spp.
Animalia	Annelida	Polychaeta	Phyllodocida	Goniadidae	Goniadidae spp.
Animalia	Annelida	Polychaeta	Phyllodocida	Nereididae	Nereididae spp.
Animalia	Annelida	Polychaeta	Sabellida	Oweniidae	Oweniidae spp.
Animalia	Annelida	Polychaeta	Terebellida	Ampharetidae	Ampharetidae spp.
Animalia	Annelida	Polychaeta	Terebellida	Pectinariidae	Pectinariidae spp.
Animalia	Annelida	Polychaeta		Maldanidae	Maldanidae spp.
Animalia	Annelida	Polychaeta		Opheliidae	<i>Ophelina acuminata</i>
Animalia	Arthropoda	Merostomata	Xiphosurida	Limulidae	<i>Carcinoscorpius rotundicauda</i>
Animalia	Arthropoda	Malacostraca	Decapoda	Penaeidae	<i>Penaeus</i> sp.
Animalia	Arthropoda	Malacostraca	Decapoda	Diogenidae	<i>Clibanarius</i> sp.
Animalia	Arthropoda	Malacostraca	Decapoda	Diogenidae	<i>Diogenes</i> sp.
Animalia	Arthropoda	Malacostraca	Decapoda	Paguridae	<i>Pagurus dubius</i>
Animalia	Arthropoda	Malacostraca	Decapoda	Ocypodidae	<i>Macrophthalmus erato</i>
Animalia	Arthropoda	Malacostraca	Decapoda	Ocypodidae	<i>Macrophthalmus</i> sp.
Animalia	Arthropoda	Malacostraca	Decapoda	Ocypodidae	<i>Uca lactea</i>
Animalia	Arthropoda	Malacostraca	Decapoda	Ocypodidae	<i>Uca</i> sp.
Animalia	Arthropoda	Malacostraca	Decapoda	Ocypodidae	<i>Uca vocans</i>
Animalia	Arthropoda	Malacostraca	Decapoda	Portunidae	<i>Scylla serrata</i>
Animalia	Arthropoda	Malacostraca	Decapoda	Sesarmidae	<i>Nanosesarma minutum</i>
Animalia	Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Hemigrapsus penicillatus</i>
Animalia	Arthropoda	Malacostraca	Decapoda	Grapsidae	<i>Metopograpsus latifrons</i>
Animalia	Arthropoda	Maxillopoda	Sessilia	Balanidae	<i>Balanus amphitrite</i>
Animalia	Chordata	Actinopterygii	Perciformes	Gobiidae	Unidentified goby spp.
Animalia	Cnidaria				Sea anemone spp.
Animalia	Echinodermata	Ophiuroidea	Ophiurida	Amphiuridae	<i>Amphiura</i> sp.
Animalia	Echinodermata	Holothuroidea			Sea cucumber spp.
Animalia	Mollusca	Bivalvia	Anomalodesmata	Laternulidae	<i>Laternula anatina</i>
Animalia	Mollusca	Bivalvia	Veneroida	Corbiculidae	<i>Geloina erosa</i>
Animalia	Mollusca	Bivalvia	Veneroida	Mesodesmatidae	<i>Atactodea striata</i>

Annex II (Cont'd) *Taxonomic resolution of every recorded species of intertidal soft shore community survey*

Kingdom	Phylum	Class	Order	Family	Species
Animalia	Mollusca	Bivalvia	Veneroida	Tellinidae	<i>Macoma murrayana</i>
Animalia	Mollusca	Bivalvia	Veneroida	Tellinidae	<i>Tellina psammotella</i>
Animalia	Mollusca	Bivalvia	Veneroida	Tellinidae	<i>Tellina</i> sp.
Animalia	Mollusca	Bivalvia	Veneroida	Veneridae	<i>Anomalocardia squamosa</i>
Animalia	Mollusca	Bivalvia	Veneroida	Veneridae	<i>Circe</i> sp.
Animalia	Mollusca	Bivalvia	Veneroida	Veneridae	<i>Cyclina sinesis</i>
Animalia	Mollusca	Bivalvia	Veneroida	Veneridae	<i>Ruditapes philippinarum</i>
Animalia	Mollusca	Bivalvia	Arcoida	Arcidae	<i>Barbatia signata</i>
Animalia	Mollusca	Bivalvia	Arcoida	Arcidae	<i>Barbatia virescens</i>
Animalia	Mollusca	Bivalvia	Mytiloida	Mytilidae	<i>Xenostrobus atrata</i>
Animalia	Mollusca	Bivalvia	Ostreoida	Ostreidae	<i>Saccostrea cucullata</i>
Animalia	Mollusca	Gastropoda	Caenogastropoda	Batillariidae	<i>Batillaria bornii</i>
Animalia	Mollusca	Gastropoda	Caenogastropoda	Batillariidae	<i>Batillaria multiformis</i>
Animalia	Mollusca	Gastropoda	Caenogastropoda	Batillariidae	<i>Batillaria zonalis</i>
Animalia	Mollusca	Gastropoda	Caenogastropoda	Planaxidae	<i>Planaxis sulcatus</i>
Animalia	Mollusca	Gastropoda	Caenogastropoda	Potamididae	<i>Cerithidea cingulata</i>
Animalia	Mollusca	Gastropoda	Caenogastropoda	Potamididae	<i>Cerithidea djadjariensis</i>
Animalia	Mollusca	Gastropoda	Caenogastropoda	Potamididae	<i>Cerithidea rhizophorarum</i>
Animalia	Mollusca	Gastropoda	Caenogastropoda	Potamididae	<i>Terebralia sulcata</i>
Animalia	Mollusca	Gastropoda	Littorinimorpha	Littorinidae	<i>Littoria melanostoma</i>
Animalia	Mollusca	Gastropoda	Littorinimorpha	Littorinidae	<i>Littoraria articulata</i>
Animalia	Mollusca	Gastropoda	Littorinimorpha	Naticidae	<i>Natica</i> sp.
Animalia	Mollusca	Gastropoda	Littorinimorpha	Rissoinidae	<i>Rissoina plicatula</i>
Animalia	Mollusca	Gastropoda	Neogastropoda	Buccinidae	<i>Pisania ignea</i>
Animalia	Mollusca	Gastropoda	Neogastropoda	Muricidae	<i>Thais luteostoma</i>
Animalia	Mollusca	Gastropoda	Systellommatophora	Onchidiidae	<i>Onchidium</i> sp.
Animalia	Mollusca	Gastropoda	Cycloneritimorpha	Neritidae	<i>Clithon faba</i>
Animalia	Mollusca	Gastropoda	Cycloneritimorpha	Neritidae	<i>Clithon oualaniensis</i>
Animalia	Mollusca	Gastropoda	Cycloneritimorpha	Neritidae	<i>Nerita polita</i>
Animalia	Mollusca	Gastropoda		Lottiidae	<i>Nipponacmea concinna</i>
Animalia	Mollusca	Gastropoda		Lottiidae	<i>Patelloida pygmaea</i>
Animalia	Mollusca	Gastropoda		Nacellidae	<i>Cellana grata</i>
Animalia	Mollusca	Gastropoda		Nacellidae	<i>Cellana toreuma</i>

Annex II (Cont'd) *Taxonomic resolution of every recorded species of intertidal soft shore community survey*

Kingdom	Phylum	Class	Order	Family	Species
Animalia	Mollusca	Gastropoda	Neogastropoda	Nassariidae	<i>Nassarius festivus</i>
Animalia	Mollusca	Gastropoda	Neogastropoda	Nassariidae	<i>Nassarius hepaticus</i>
Animalia	Mollusca	Gastropoda	Neogastropoda	Nassariidae	<i>Nassarius</i> sp.
Animalia	Mollusca	Gastropoda		Trochidae	<i>Euchelus scaber</i>
Animalia	Mollusca	Gastropoda		Trochidae	<i>Monodonta labio</i>
Animalia	Mollusca	Gastropoda		Turbinidae	<i>Chlorostoma argyrostoma</i>
Animalia	Mollusca	Gastropoda		Turbinidae	<i>Lunella coronata</i>
Animalia	Mollusca	Polyplacophora	Chitonida	Ischnochitonidae	<i>Lepidozona</i> sp.
Animalia	Mollusca	Scaphopoda	Dentaliida	Dentaliidae	<i>Dentalium sinuosum</i>
Animalia	Nemertea				Nemertea spp.
Animalia	Sipuncula	Sipunculidea	Golfingiida	Sipunculidae	<i>Sipunculus nudus</i>

Annex III List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2014 Sampling zone TC 1 High tidal level (2.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Bi	<i>Geloina erosa</i>									1						1				1		3
Bi	<i>Saccostrea cucullata</i>	2		3				1		6		3						1		1		17
Bi	<i>Xenostrobus atrata</i>									1				1								2
C	<i>Hemigrapsus penicillatus</i>			1		1		1														3
C	<i>Macrophthalmus</i> sp.													1								1
C	<i>Nanosesarma minutum</i>											1										1
C	<i>Uca lactea</i>													3	1	3				1		8
C	<i>Uca</i> sp.							1										1				2
Ec	Sea cucumber spp.					1												1				2
G	<i>Batillaria multiformis</i>	134		4		99		76		111		88		10		62		71		152		807
G	<i>Batillaria zonalis</i>	6																				6
G	<i>Cellana toreuma</i>									1												1
G	<i>Cerithidea cingulata</i>	37		125		4		3								6				22		197
G	<i>Cerithidea djadjariensis</i>	15		15		7		5		2		1				24		2		27		98
G	<i>Cerithidea rhizophorarum</i>			1				1				1		2		1		1		2		9
G	<i>Clithon faba</i>	7		15																1		23
G	<i>Clithon oualaniensis</i>	6		2		11				1								2		2		24
G	<i>Littoraia melanostoma</i>									2				1								3
G	<i>Littoraria articulata</i>					5				7		2		2		1		1		1		19

Annex III (Cont'd) List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2014	Sampling zone TC 1	High tidal level (2.0 m above C.D.)																					
		1	2		3		4		5		6		7		8		9		10				
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	sub-total	
G	<i>Lunella coronata</i>	1																				1	
G	<i>Monodonta labio</i>			5		5		11		9		3				1		9		5		48	
G	<i>Onchidium</i> sp.																	1				1	
G	<i>Rissoina plicatula</i>																			8		8	
G	<i>Terebralia sulcata</i>																	1		1		2	
Hc	<i>Pagurus dubius</i>																	2				2	
HSc	<i>Carcinoscorpius rotundicauda</i>									1												1	
P	Ampharetidae spp.				1																	1	
																						Total	1290

Annex III (Cont'd) List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2014 Sampling zone TC 1 Mid tidal level (1.5 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Ba	<i>Balanus amphitrite</i>	1																				1
Bi	<i>Barbatia signata</i>															1						1
Bi	<i>Saccostrea cucullata</i>	22		2		30		14		8		6		12		22		5		34		155
Bi	<i>Xenostrobus atrata</i>					3				1				3				2		5		14
C	<i>Hemigrapsus penicillatus</i>					1										2		1		1		5
C	<i>Nanosesarma minutum</i>													1		1				2		4
Ec	Sea cucumber spp.					1																1
G	<i>Batillaria multiformis</i>	25		6		58		66		114		82		178		122		67		85		803
G	<i>Batillaria zonalis</i>			2																		2
G	<i>Cellana toreuma</i>	3						1		1						4		2		1		12
G	<i>Cerithidea cingulata</i>	48		23	1			8		1		1				2		4		4		92
G	<i>Cerithidea djadjariensis</i>	65		100		7		32		5		2				18		20		27		276
G	<i>Cerithidea rhizophorarum</i>	2		1	1			4								1		7		3		19
G	<i>Clithon faba</i>	1																3		6		10
G	<i>Clithon oualaniensis</i>	2		4				3		1		3				2		3		4		22
G	<i>Littoraria articulata</i>	4				3				2		2		4		1		1		8		25
G	<i>Lunella coronata</i>	1		1		1																3
G	<i>Monodonta labio</i>	11		1		19		11		15		12		22		49		13		31		184
G	<i>Nassarius festivus</i>			1				1														2

Annex III (Cont'd) *List of recorded fauna of intertidal soft shore community survey in every sampling zone*

Jun 2014 Sampling zone TC 1 Mid tidal level (1.5 m above C.D.)

		1		2		3		4		5		6		7		8		9		10		sub-total
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
G	<i>Patelloida pygmaea</i>															1				1		2
G	<i>Terebralia sulcata</i>																	1				1
Hc	<i>Pagurus dubius</i>																	2				2
P	Ampharetidae spp.				1																	1
Sp	<i>Sipunculus nudus</i>																			1		1
																					Total	1638

Annex III (Cont'd) List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2014 Sampling zone TC 1 Low tidal level (1.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Ba	<i>Balanus amphitrite</i>					1																1
Bi	<i>Barbatia signata</i>	9				6												18		9		42
Bi	<i>Barbatia virescens</i>	3				4										1		4		11		23
Bi	<i>Circe</i> sp.							1		3												4
Bi	<i>Macoma murrayana</i>													1		1						2
Bi	<i>Ruditapes philippinarum</i>																			1		1
Bi	<i>Saccostrea cucullata</i>	51				49										3		16		50		169
Bi	<i>Tellina</i> sp.											1										1
Bi	<i>Xenostrobus atrata</i>	16				29														3		48
C	<i>Hemigrapsus penicillatus</i>					2										1		1		1		5
C	<i>Macrophthalmus</i> sp.																1					1
C	<i>Metopograpsus latifrons</i>																	2				2
C	<i>Nanosesarma minutum</i>	1				1												8		6		16
C	<i>Uca lactea</i>					2																2
Cn	Sea anemone spp.					1												2		1		4
G	<i>Batillaria bornii</i>	3																		1		4
G	<i>Batillaria multiformis</i>	9		21	3	2	1	7		2		14	2	2		9	3	3		8		86
G	<i>Batillaria zonalis</i>	2		25	3	6		57	2	36		34	1	15		6	1					188
G	<i>Cellana toreuma</i>	2				3														8		13

Annex III (Cont'd) List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2014 Sampling zone TC 1 Low tidal level (1.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
G	<i>Cerithidea cingulata</i>	2		2		2										55						61
G	<i>Cerithidea djadjariensis</i>	5		95		39		1						14		6						160
G	<i>Cerithidea rhizophorarum</i>					1																1
G	<i>Clithon oualaniensis</i>													1		3				2		6
G	<i>Euchelus scaber</i>																	1		2		3
G	<i>Lunella coronata</i>	12				7										9		6		28		62
G	<i>Monodonta labio</i>					3										1		19		51		74
G	<i>Nassarius festivus</i>				1			2		1			2									6
G	<i>Nassarius hepaticus</i>				1							1	1		1							4
G	<i>Nassarius</i> sp.			1																		1
G	<i>Nerita polita</i>	1																4		4		9
G	<i>Patelloida pygmaea</i>															1		11		4		16
G	<i>Pisania ignea</i>												1					2		3		6
G	<i>Thais luteostoma</i>	1																6				7
Hc	<i>Clibanarius</i> sp.															1						1
Ne	Nemertea spp.										1	1						2				4
P	Ampharetidae spp.				1			1								1						3
P	Maldanidae spp.							6		4			1									11
P	Nereididae spp.				1			1		2					2							6

Annex III (Cont'd) *List of recorded fauna of intertidal soft shore community survey in every sampling zone*

Jun 2014		Sampling zone TC 1		Low tidal level (1.0 m above C.D.)																			
		1		2		3		4		5		6		7		8		9		10			
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	sub-total	
P	Onuphidae spp.								5			8			1		2		1			17	
Sp	<i>Sipunculus nudus</i>	4																		3		7	
																						Total	1077

Annex III (Cont'd) List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2014 Sampling zone TC 2 High tidal level (2.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Ba	<i>Balanus amphitrite</i>	3																		1		4
Bi	<i>Barbatia virescens</i>																			2		2
Bi	<i>Circe</i> sp.							1														1
Bi	<i>Saccostrea cucullata</i>	1		9		9		4								6		14		26		69
Bi	<i>Tellina psammotella</i>					1																1
Bi	<i>Xenostrobus atrata</i>																			3		3
C	<i>Hemigrapsus penicillatus</i>																			3		3
C	<i>Scylla serrata</i>								1													1
C	<i>Uca lactea</i>													1		2						3
Cn	Sea anemone spp.																			1		1
G	<i>Batillaria bornii</i>															1				1		2
G	<i>Batillaria multiformis</i>							2		7	1	3		20	7	17	3	9	3	17		89
G	<i>Batillaria zonalis</i>											4	1	4		11	1	8	1	8	1	39
G	<i>Cellana toreuma</i>															1						1
G	<i>Cerithidea cingulata</i>	31		12		15		89	12	24		21	7	144	8	63	5	36	4	50	3	524
G	<i>Cerithidea djadjariensis</i>	131		40		118		82	5	74	1	64	10	77	1	106	4	89	5	100		907
G	<i>Cerithidea rhizophorarum</i>	2		1		3				2		1		1		3		6		4		23
G	<i>Clithon oualaniensis</i>					1		1						6		7		6		5	1	27
G	<i>Littoraria articulata</i>																			1		1

Annex III (Cont'd) *List of recorded fauna of intertidal soft shore community survey in every sampling zone*

Jun 2014 Sampling zone TC 2 High tidal level (2.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
G	<i>Monodonta labio</i>															1		2		2		5
G	<i>Nassarius festivus</i>	2														2		3		3		10
G	<i>Nerita polita</i>								2									1	1	1		5
G	<i>Terebralia sulcata</i>	2																				2
P	Ampharetidae spp.								2		1						2					5
P	Maldanidae spp.										1								1			2
																					Total	1730

AnnexIII (Cont'd) List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2014 Sampling zone TC 2 Mid tidal level (1.5 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Ba	<i>Balanus amphitrite</i>	2				2																4
Bi	<i>Barbatia virescens</i>					4										2		9		13		28
Bi	<i>Circe</i> sp.								1													1
Bi	<i>Cyclina sinesis</i>																			5		5
Bi	<i>Ruditapes philippinarum</i>																				1	1
Bi	<i>Saccostrea cucullata</i>	11		9		41						17				25		29		47		179
Bi	<i>Tellina psammotella</i>								1													1
Bi	<i>Xenostrobus atrata</i>	4				11																15
C	<i>Hemigrapsus penicillatus</i>	1				4						1				2				6		14
C	<i>Metopograpsus latifrons</i>	1																				1
C	<i>Nanosesarma minutum</i>	1										1								1		3
Ec	Sea cucumber spp.	1		1		1									2							5
G	<i>Batillaria bornii</i>											13				11				2		26
G	<i>Batillaria multiformis</i>	1				10		2	1	2		6		13		8		12	1	8		64
G	<i>Batillaria zonalis</i>					1		10		1		9		22		3		17	1	38	1	103
G	<i>Cellana grata</i>	13		1		3																17
G	<i>Cellana toreuma</i>	1				1												1				3
G	<i>Cerithidea cingulata</i>	3						8	1			2		1		5	1	2	1	5		29
G	<i>Cerithidea djadjariensis</i>	6		1		19		74		12		42		45	1	37		31		46	1	315

Annex III (Cont'd) List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2014 Sampling zone TC 2 Mid tidal level (1.5 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
G	<i>Cerithidea rhizophorarum</i>							2										2		1		5
G	<i>Dentalium sinuosum</i>																	1				1
G	<i>Euchelus scaber</i>																			1		1
G	<i>Lunella coronata</i>					3						4				8		7		14		36
G	<i>Monodonta labio</i>	22		7		33										19				1		82
G	<i>Nassarius festivus</i>							1	1			2	1	2				2				9
G	<i>Nerita polita</i>	1				1												1				3
G	<i>Nipponacmea concinna</i>															3		4		1		8
G	<i>Patelloida pygmaea</i>																			1		1
Hc	<i>Diogenes</i> sp.																	1				1
Ne	Nemertea spp.															1						1
Ol	Marine oligochaete spp.	1																				1
P	Ampharetidae spp.							4	1						2							7
P	Maldanidae spp.							4					2		3							9
P	Nereididae spp.			1									1		1							3
P	Onuphidae spp.							2							1					1		4
P	Pectinariidae spp.							1														1

Annex III (Cont'd) *List of recorded fauna of intertidal soft shore community survey in every sampling zone*

Jun 2014 Sampling zone TC 2 Mid tidal level (1.5 m above C.D.)

		1		2		3		4		5		6		7		8		9		10		sub-total
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
S	<i>Penaeus</i> sp.											1	1									2
Sp	<i>Sipunculus nudus</i>															2	1	1				4
																					Total	993

Annex III (Cont'd) List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2014 Sampling zone TC 2 Low tidal level (1.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Ba	<i>Balanus amphitrite</i>							5														5
Bi	<i>Circe</i> sp.				1																	1
Bi	<i>Macoma murrayana</i>									1												1
Bi	<i>Saccostrea cucullata</i>							12				6										18
C	<i>Hemigrapsus penicillatus</i>							1					1									2
C	<i>Nanosesarma minutum</i>																	2				2
C	<i>Scylla serrata</i>							1														1
C	<i>Uca vocans</i>	2		26																		28
Ec	<i>Amphiura</i> sp.																		1			1
F	Unidentified goby spp.												1									1
G	<i>Batillaria multiformis</i>			2		3		2	1	2		4		3		8		2	1	2		30
G	<i>Batillaria zonalis</i>			2		3		6		1		13		10		32	1	20	1	22		111
G	<i>Cellana toreuma</i>							1														1
G	<i>Cerithidea cingulata</i>	4		2		3	2	7				4		1		1		1		1		26
G	<i>Cerithidea djadjariensis</i>	40		40		36	1	59		37		25	1	11	2	27		33		26		338
G	<i>Cerithidea rhizophorarum</i>						1									1						2
G	<i>Euchelus scaber</i>											1										1
G	<i>Lepidozona</i> sp.							2														2
G	<i>Lunella coronata</i>							4		2		3				1						10

Annex III (Cont'd) *List of recorded fauna of intertidal soft shore community survey in every sampling zone*

Jun 2014 Sampling zone TC 2 Low tidal level (1.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
G	<i>Nassarius festivus</i>												1			2		1		1		5
G	<i>Pisania ignea</i>											1										1
P	Ampharetidae spp.				1			1			1					1			3			7
P	Glyceridae spp.																1					1
P	Maldanidae spp.				1		3	1	2	1	5	1	1		1		2					18
P	Nereididae spp.				1		1			1			1		2							6
P	Onuphidae spp.						1				1		2		1		3		3		1	12
Sp	<i>Sipunculus nudus</i>									1												1
																					Total	632

Annex III (Cont'd) List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2014 Sampling zone TC 3 High tidal level (2.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Bi	<i>Barbatia virescens</i>																	1				1
Bi	<i>Circe</i> sp.								4		1	1	1									7
Bi	<i>Cyclina sinesis</i>	1												1						1	1	4
Bi	<i>Saccostrea cucullata</i>	1		6		10												16				33
Bi	<i>Xenostrobus atrata</i>																	2				2
C	<i>Hemigrapsus penicillatus</i>			1														5				6
C	<i>Nanosesarma minutum</i>																	3				3
C	<i>Uca lactea</i>															1						1
C	<i>Uca</i> sp.				1	1	1							1								4
C	<i>Uca vocans</i>																			1		1
G	<i>Batillaria multiformis</i>	31	3	97	2	388	30	317	44	523		7	1	22		2		401	9	141	6	2024
G	<i>Batillaria zonalis</i>					1																1
G	<i>Cerithidea cingulata</i>	6		87	3	33		11		51		11		77		4		33		44	1	361
G	<i>Cerithidea djadjariensis</i>	67		95		66	1	74	4	35		29		16		175		99		94	1	756
G	<i>Cerithidea rhizophorarum</i>	2								1		1				5				2		11
G	<i>Clithon faba</i>									1												1
G	<i>Clithon oualaniensis</i>			2		4				4				1				4		4		19
G	<i>Littoraria articulata</i>					1												2				3
G	<i>Lunella coronata</i>																	3				3

Annex III (Cont'd) List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2014 Sampling zone TC 3 High tidal level (2.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
G	<i>Monodonta labio</i>																	4				4
G	<i>Nassarius festivus</i>													1								1
G	<i>Patelloida pygmaea</i>															2						2
G	<i>Planaxis sulcatus</i>									1												1
Hc	<i>Pagurus dubius</i>																	2				2
HSc	<i>Carcinoscorpius rotundicauda</i>																			1		1
Ne	Nemertea spp.														1							1
P	Ampharetidae spp.												1						4		2	7
P	Maldanidae spp.				1						2		2		1				1		1	8
P	Nereididae spp.												1		1							2
P	Polynoidae spp.																	2				2
																					Total	3272

Annex III (Cont'd) List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2014 Sampling zone TC 3 Mid tidal level (1.5 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Ba	<i>Balanus amphitrite</i>																	1		2		3
Bi	<i>Anomalocardia squamosa</i>																1					1
Bi	<i>Barbatia signata</i>																	1				1
Bi	<i>Circe</i> sp.													1								1
Bi	<i>Cyclina sinesis</i>																			1		1
Bi	<i>Laternula anatina</i>																			1		1
Bi	<i>Saccostrea cucullata</i>					5												11		14		30
Bi	<i>Xenostrobus atrata</i>																			3		3
C	<i>Hemigrapsus penicillatus</i>																	1				1
C	<i>Macrophthalmus erato</i>													1								1
C	<i>Nanosesarma minutum</i>																			3		3
C	<i>Uca</i> sp.				1					1												2
C	<i>Uca vocans</i>											7						1		4		12
G	<i>Batillaria multiformis</i>	32		20	1	9		5	1	49		24		1		1		4	1	4	3	155
G	<i>Batillaria zonalis</i>	7		10	2			8	1	15		13		3	1	3		5	2	4		74
G	<i>Cellana grata</i>					1																1
G	<i>Cerithidea cingulata</i>	187		121	6	2		11	2	47		26		3		3	1	6	1	14	1	431
G	<i>Cerithidea djadjariensis</i>	76		92		3		114	2	103		59		41	1	25	2	109		81	2	710
G	<i>Cerithidea rhizophorarum</i>									2		2		1		5	1	4		6		21

Annex III (Cont'd) List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2014 Sampling zone TC 3 Mid tidal level (1.5 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
G	<i>Clithon oualaniensis</i>	1		2						2		1										6
G	<i>Littoraria articulata</i>																			7		7
G	<i>Lunella coronata</i>			1														1		1		3
G	<i>Monodonta labio</i>				1	3		1												5		10
G	<i>Nassarius festivus</i>	2		2				1								1					1	7
G	<i>Nassarius hepaticus</i>							1														1
G	<i>Patelloida pygmaea</i>																	1				1
Hc	<i>Pagurus dubius</i>					1								1								2
Ol	Marine oligochaete spp.																			1		1
P	Ampharetidae spp.															1						1
P	Maldanidae spp.							2						2		2					1	7
P	Nereididae spp.							1												1		2
																					Total	1500

Annex III (Cont'd) List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2014 Sampling zone TC 3 Low tidal level (1.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Ba	<i>Balanus amphitrite</i>							1						1								2
Bi	<i>Barbatia signata</i>			8						22				1						1		32
Bi	<i>Barbatia virescens</i>	2				1		2						1								6
Bi	<i>Saccostrea cucullata</i>	200		44		69		42		16		10		60		8		24		56		529
Bi	<i>Xenostrobus atrata</i>	4		10		3		2						23						14		56
C	<i>Hemigrapsus penicillatus</i>											1				1				1		3
C	<i>Metopograpsus latifrons</i>	1																				1
C	<i>Nanosesarma minutum</i>	1						1														2
Ec	Sea cucumber spp.			1																		1
G	<i>Batillaria bornii</i>									1				1						1		3
G	<i>Batillaria multiformis</i>			6				5						42		223		131		109		516
G	<i>Batillaria zonalis</i>									15		17										32
G	<i>Cellana grata</i>																	1				1
G	<i>Cellana toreuma</i>													9				7		8		24
G	<i>Cerithidea cingulata</i>					1						3				1				6		11
G	<i>Cerithidea djadjariensis</i>			1				20		76		32	2			1		4		8		144
G	<i>Cerithidea rhizophorarum</i>							2		4		7				2		2		6		23
G	<i>Clithon oualaniensis</i>									1		2						4		1		8
G	<i>Euchelus scaber</i>													1								1

Annex III (Cont'd) List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2014 Sampling zone TC 3 Low tidal level (1.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
G	<i>Lepidozona</i> sp.																	1				1
G	<i>Littoraria articulata</i>	1		2		1								17				8		10		39
G	<i>Lunella coronata</i>	18		13		6		13		1		2		1		1		1		5		61
G	<i>Monodonta labio</i>	36		48		45		7		1				96		20		65		102		420
G	<i>Nassarius festivus</i>									1		2										3
G	<i>Nerita polita</i>	1		4		3								1						3		12
G	<i>Patelloida pygmaea</i>													3						1		4
Hc	<i>Pagurus dubius</i>							1														1
Ne	Nemertea spp.										1	1										2
P	Maldanidae spp.										1											1
Sp	<i>Sipunculus nudus</i>							2														2

Total 1941

Annex III (Cont'd) List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2014 Sampling zone ST High tidal level (2.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Bi	<i>Barbatia virescens</i>							1		1				1								3
Bi	<i>Ruditapes philippinarum</i>											1										1
Bi	<i>Saccostrea cucullata</i>	4		9		11		6		29		24		13		20		36		40		192
Bi	<i>Xenostrobus atrata</i>			1								1				1		3				6
C	<i>Hemigrapsus penicillatus</i>											2								1		3
C	<i>Metopograpsus latifrons</i>																	2				2
C	<i>Nanosesarma minutum</i>											1						1				2
C	<i>Scylla serrata</i>					1																1
Cn	Sea anemone spp.	5				19						1								2		27
G	<i>Batillaria bornii</i>	9		34				2		3		11										59
G	<i>Batillaria multiformis</i>	98		145		108		250		24		57		17		72		11		47		829
G	<i>Cellana toreuma</i>			1		17		1		33		28		1		13		3		19		116
G	<i>Cerithidea cingulata</i>	8		6				1		3		1				6		1		6		32
G	<i>Cerithidea djadjariensis</i>	7		4				4		4		7		3		7		3		5		44
G	<i>Cerithidea rhizophorarum</i>	5						2		2												9
G	<i>Clithon faba</i>			2		1		3				1						1		1		9
G	<i>Clithon oualaniensis</i>	16		30		10		14				5		2		1				7		85
G	<i>Euchelus scaber</i>													1								1
G	<i>Lepidozona</i> sp.							1														1

Annex III (Cont'd) *List of recorded fauna of intertidal soft shore community survey in every sampling zone*

Jun 2014	Sampling zone ST	High tidal level (2.0 m above C.D.)																				
		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	sub-total
G	<i>Littoraria articulata</i>																			1		1
G	<i>Lunella coronata</i>									5		1		3		1		4		3		17
G	<i>Monodonta labio</i>	1		12		5		13		33		54		17		32		17		23		207
G	<i>Nassarius festivus</i>											1		1								2
G	<i>Nerita polita</i>					2								1		1						4
G	<i>Patelloida pygmaea</i>	1										1				1				2		5
Hc	<i>Pagurus dubius</i>			1				1														2
Ne	Nemertea spp.															1						1
P	Glyceridae spp.																	1				1
																					Total	1662

Annex III (Cont'd) List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2014	Sampling zone	ST	Mid tidal level (1.5 m above C.D.)																				
			1		2		3		4		5		6		7		8		9		10		
Gp	Taxon		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	sub-total
Bi	<i>Barbatia signata</i>						1		2		2				9				1				15
Bi	<i>Barbatia virescens</i>		1				2		7		6		9		6		3		2		1		37
Bi	<i>Saccostrea cucullata</i>		11		17		18		41		23		53		66		36		39		24		328
Bi	<i>Xenostrobus atrata</i>		1				1																2
C	<i>Hemigrapsus penicillatus</i>				1						1		1						1				4
C	<i>Nanosesarma minutum</i>						1		1								1						3
Cn	Sea anemone spp.		3						1				1		1		1						7
G	<i>Batillaria bornii</i>				2		3		43		6		2				1		2		4		63
G	<i>Batillaria multiformis</i>		6		38		2				16		35		23		55		13		54		242
G	<i>Batillaria zonalis</i>				3		2		1														6
G	<i>Cellana toreuma</i>		5				76		6		20		25		23		15		35		14		219
G	<i>Cerithidea cingulata</i>				30		6		5		2		3		1		3				1		51
G	<i>Cerithidea djadjariensis</i>				72		16		15		2		1		2		7		1		12		128
G	<i>Cerithidea rhizophorarum</i>				1				1														2
G	<i>Clithon faba</i>		1																				1
G	<i>Clithon oualaniensis</i>				5		1				1				1		2						10
G	<i>Euchelus scaber</i>						1																1
G	<i>Lepidozona</i> sp.						1		1										1				3
G	<i>Littoraria articulata</i>												1				1						2

Annex III (Cont'd) List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2014	Sampling zone ST	Mid tidal level (1.5 m above C.D.)																					
		1		2		3		4		5		6		7		8		9		10			
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	sub-total	
G	<i>Lunella coronata</i>	2		9		17		13		5		6		4		7		8		6		77	
G	<i>Monodonta labio</i>	19		25		19		22		24		42		35		72		39		37		334	
G	<i>Nassarius festivus</i>					2		1														3	
G	<i>Natica</i> sp.					1																1	
G	<i>Nerita polita</i>							4				4		2				1				11	
G	<i>Patelloida pygmaea</i>													1		2		1		1		5	
G	<i>Thais luteostoma</i>							2		1												3	
Ne	Nemertea spp.											1										1	
P	Glyceridae spp.											1										1	
Sp	<i>Sipunculus nudus</i>	3		1						1		1		4								10	
																						Total	1570

Annex III (Cont'd) List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2014 Sampling zone ST Low tidal level (1.0 m above C.D.)

Gp	Taxon	1		2		3		4		5		6		7		8		9		10		sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Ba	<i>Balanus amphitrite</i>	1												5								6
Bi	<i>Atactodea striata</i>																		1			1
Bi	<i>Barbatia signata</i>															2						2
Bi	<i>Barbatia virescens</i>			1												2						3
Bi	<i>Circe</i> sp.										1		2					1	1		3	8
Bi	<i>Ruditapes philippinarum</i>														1							1
Bi	<i>Saccostrea cucullata</i>	27		19										45		17						108
Bi	<i>Xenostrobus atrata</i>	1														3						4
C	<i>Hemigrapsus penicillatus</i>			2																		2
C	<i>Nanosesarma minutum</i>															1						1
G	<i>Batillaria bornii</i>	18		45																		63
G	<i>Batillaria multiformis</i>			4		1	1			6		2		1		1		1		3		20
G	<i>Batillaria zonalis</i>	11		4		20		19		42		3		3		7		9		9	1	128
G	<i>Cellana toreuma</i>	1		1												1						3
G	<i>Cerithidea cingulata</i>						1					1				5	1	4		3	1	16
G	<i>Cerithidea djadjariensis</i>	36		33							1	27		4		11		8		17		137
G	<i>Cerithidea rhizophorarum</i>			1																		1
G	<i>Chlorostoma argyrostoma</i>			1																		1
G	<i>Euchelus scaber</i>	1														2						3

Annex III (Cont'd) List of recorded fauna of intertidal soft shore community survey in every sampling zone

Jun 2014	Sampling zone ST	Low tidal level (1.0 m above C.D.)																					
		1		2		3		4		5		6		7		8		9		10			
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	sub-total	
G	<i>Lepidozona</i> sp.															1						1	
G	<i>Lunella coronata</i>	15		21										7		10						53	
G	<i>Monodonta labio</i>	4		2																		6	
G	<i>Nassarius festivus</i>	1		1								1	1			1		1				6	
G	<i>Natica</i> sp.																			1		1	
G	<i>Pisania ignea</i>																			1		1	
Hc	<i>Pagurus dubius</i>			1																		1	
P	Goniadidae spp.						1															1	
P	Maldanidae spp.												1						1			2	
P	Nereididae spp.																1					1	
P	Onuphidae spp.						1		1		1						1		1			5	
P	<i>Ophelina acuminata</i>											1										1	
P	Oweniidae spp.										1								1			2	
Sp	<i>Sipunculus nudus</i>													1	1							2	
Total																						591	

Faunal group (Gp) label

Ba: Barnacle; Bi: Bivalve; C: Crab; Cn: Cnidarin; Ec: Echinoderm; F: Fish; G: Gastropod; Hc: Hermit crab; Ne: Nemertean; Ol: Oligochaete; P: Polychaete; Pl: Platyhelminthes; S: Shrimp & Prawns; Sp: Sipuculan