

**TC1**



**TC2**



**TC3**



**ST**



**Figure 2.2.** *Photographic record of the environment at every sampling zone.*

**Table 3.1.** Record of horseshoe crab monitoring at every sampling zone.

Species	Prosomal		GPS coordinate	Grouping
	width (mm)	Substratum		
TC1 (search hour = 2 hr)				
<i>Tachypleus tridentatus</i>	28.14	S	22° 21.326' N 114° 45.150' E	
TC2 (search hour = 2 hr)				
No record				
TC3 (search hour = 3 hr)				
<i>Tachypleus tridentatus</i>	25.85	S	22° 16.962' N 113° 55.692' E	
<i>T. tridentatus</i>	59.32	S	22° 16.922' N 113° 55.672' E	
<i>T. tridentatus</i>	12.67	S	22° 16.975' N 113° 55.661' E	
<i>T. tridentatus</i>	49.37	S	22° 16.977' N 113° 55.678' E	
<i>T. tridentatus</i>	41.16	M	22° 17.111' N 113° 55.609' E	
<i>T. tridentatus</i>	48.19	S	22° 17.088' N 113° 55.587' E	
<i>T. tridentatus</i>	54.11	M	22° 17.105' N 113° 55.568' E	
<i>T. tridentatus</i>	52.95	M	22° 17.101' N 113° 55.622' E	1
<i>T. tridentatus</i>	40.22	M	22° 17.059' N 113° 55.621' E	1

M = Soft mud; S = Sands

Individuals in a group was given the same grouping number

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

Species	Prosomal		GPS coordinate	Grouping
	width (mm)	Substratum		
ST (search hour = 3 hr)				
<i>Tachypleus tridentatus</i>	15.85	S	22° 16.904' N 113° 56.035' E	
<i>T. tridentatus</i>	35.35	M	22° 16.904' N 113° 56.035' E	
<i>T. tridentatus</i>	43.82	M	22° 17.531' N 113° 55.626' E	
<i>T. tridentatus</i>	8.45	S	22° 17.067' N 113° 55.971' E	
<i>T. tridentatus</i>	26.12	S	22° 17.057' N 113° 55.973' E	
<i>T. tridentatus</i>	30.95	M	22° 17.151' N 113° 55.970' E	2
<i>T. tridentatus</i>	26.77	M	22° 17.151' N 113° 55.970' E	2
<i>T. tridentatus</i>	30.08	M	22° 17.151' N 113° 55.970' E	2
<i>T. tridentatus</i>	47.9	M	22° 17.151' N 113° 55.970' E	2
<i>T. tridentatus</i>	17.99	M	22° 17.531' N 113° 55.626' E	3
<i>T. tridentatus</i>	13.16	M	22° 17.531' N 113° 55.626' E	3
<i>T. tridentatus</i>	15.91	M	22° 17.531' N 113° 55.626' E	3
<i>T. tridentatus</i>	16.39	S	22° 17.067' N 113° 55.964' E	4
<i>T. tridentatus</i>	14.99	S	22° 17.067' N 113° 55.964' E	4
<i>T. tridentatus</i>	16.02	S	22° 17.067' N 113° 55.964' E	4
<i>T. tridentatus</i>	30.8	S	22° 17.066' N 113° 55.964' E	

M = Soft mud; S = Sands

Individuals in a group was given the same grouping number

TC1



TC3



ST



**Figure 3.1.** *Examples of photographic records of horseshoe crab monitoring*

**Table 3.3.** Summary of seagrass beds monitoring at every sampling zone.

Species	Estimated area (m <sup>2</sup> )	GPS coordinate	Estimated percentage cover (%)	Remark
TC1 & TC2 & TC3 (search hour = 3 hr)				
No record				
ST (search hour = 3 hr)				
<i>Halophila ovalis</i>	251.7	22° 17.057' N 113° 55.973' E - 22° 16.948' N 113° 56.031' E	50	A long strand of seagrass bed nearby the seaward side of mangrove area at 2.0m above C.D.
<i>Halophila ovalis</i>	27.0	22° 16.948' N 113° 56.031' E	80	
<i>Halophila ovalis</i>	34.7	22° 17.151' N 113° 55.970' E	70	
<i>Halophila ovalis</i>	18.9	22° 17.067' N 113° 55.971' E	80	
-----				
<b>no. of patches</b>	4			
<b>Total area (m<sup>2</sup>)</b>	332.3			
<b>Average area (m<sup>2</sup>)</b>	83.1			



**Figure 3.2.** *Examples of photographic records of seagrass beds monitoring at ST*

**Table 3.5.** *Total abundance, density and total biomass of every phylum*

<b>Phylum</b>	<b>Total Abundance</b>	<b>%</b>	<b>Density (ind. m<sup>-2</sup>)</b>	<b>Number of taxon</b>
<i>Sep 2012</i>				
Mollusca	14669	96.6	489	33
Arthropoda	467	3.1	16	22
Annelida	26	0.2	1	5
Sipuncula	21	0.1	1	2
Chordata	4	0.0	0	2
Nemertea	1	0.0	0	1
<b>Total</b>	15188			

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

0 ind. m<sup>-2</sup>: Density of the phylum is less than 1 ind. m<sup>-2</sup>.

**Table 3.6.** *The number of individuals, relative abundance (percentage) and density of each phylum at every sampling zone.*

Phylum	TC1	%	density (ind. m <sup>-2</sup> )	TC2	%	density (ind. m <sup>-2</sup> )	TC3	%	density (ind. m <sup>-2</sup> )	ST	%	density (ind. m <sup>-2</sup> )
Mollusca	3677	95.4	490	3142	93.6	419	4839	98.5	645	3011	98.3	401
Arthropoda	166	4.3	22	201	6.0	27	57	1.2	8	43	1.4	6
Sipuncula	8	0.2	1	8	0.2	1	5	0.1	1			
Annelida	4	0.1	1	6	0.2	1	10	0.2	1	6	0.2	1
Chordata	1	0.0	0							3	0.1	0
Nemertea							1	0.0	0			
<b>Sub-total</b>	<b>3856</b>			<b>3357</b>			<b>4912</b>			<b>3063</b>		

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

0 ind. m<sup>-2</sup>: Density of the phylum is less than 1 ind. m<sup>-2</sup> of the sampling zone.



**Table 3.7. The abundant species (relative abundance >10%) at every sampling zone.**

Sampling zone TC1	Group	Species	mean density (ind. m <sup>-2</sup> )	relative abundance (%)	cumulative relative abundance (%)
High	G	<i>Batillaria multiformis</i>	65	61	61
	G	<i>Cerithidea cingulata</i>	16	16	77
	G	<i>Cerithidea djadjarjensis</i>	11	10	87
Mid	G	<i>Batillaria multiformis</i>	64	33	33
	Bi	<i>Saccostrea cucullata</i>	43	22	55
	G	<i>Monodonta labio</i>	39	20	75
	G	<i>Cerithidea djadjarjensis</i>	23	12	86
Low	G	<i>Cerithidea djadjarjensis</i>	18	21	21
	Bi	<i>Saccostrea cucullata</i>	12	15	35
	G	<i>Batillaria multiformis</i>	12	14	49
	G	<i>Batillaria zonalis</i>	11	13	62
	Ba	<i>Balanus amphitrite</i>	10	12	75

Ba = Barnacle, Bi = Bivalve, G = Gastropod

**Table 3.7(Cont'd).** The abundant species (relative abundance >10%) at every sampling zone.

Sampling zone TC2	Group	Species	mean density (ind. m <sup>-2</sup> )	relative abundance (%)	cumulative relative abundance (%)
High	G	<i>Cerithidea djadjariensis</i>	31	49	49
	G	<i>Cerithidea cingulata</i>	14	21	70
	G	<i>Batillaria multiformis</i>	8	12	81
	Bi	<i>Saccostrea cucullata</i>	7	11	93
Mid	G	<i>Cerithidea djadjariensis</i>	60	36	36
	Bi	<i>Saccostrea cucullata</i>	32	19	55
	G	<i>Cerithidea cingulata</i>	30	18	73
Low	G	<i>Cerithidea djadjariensis</i>	54	51	51
	G	<i>Cerithidea cingulata</i>	14	13	65
	Bi	<i>Saccostrea cucullata</i>	12	12	77

Bi = Bivalve, G = Gastropod

**Table 3.7(Cont'd). The abundant species at every sampling zone.**

Sampling zone TC3	Group	Species	mean density (ind. m <sup>-2</sup> )	relative abundance (%)	cumulative relative abundance (%)
High	G	<i>Cerithidea djadjariensis</i>	83	47	47
	G	<i>Batillaria multiformis</i>	44	25	72
	G	<i>Cerithidea cingulata</i>	33	18	91
Mid	G	<i>Batillaria multiformis</i>	61	36	36
	G	<i>Cerithidea djadjariensis</i>	45	27	63
	G	<i>Cerithidea cingulata</i>	33	20	82
Low	Bi	<i>Saccostrea cucullata</i>	44	30	30
	G	<i>Monodonta labio</i>	36	24	55
	G	<i>Batillaria multiformis</i>	27	18	73
	G	<i>Cerithidea djadjariensis</i>	20	13	86

Bi = Bivalve, G = Gastropod

**Table 3.7(Cont'd). The abundant species at every sampling zone.**

Sampling zone ST	Group	Species	mean density (ind. m <sup>-2</sup> )	relative abundance (%)	cumulative relative abundance (%)
High	G	<i>Batillaria multiformis</i>	40	26	26
	G	<i>Nassarius festivus</i>	32	21	47
	G	<i>Monodonta labio</i>	29	19	66
	G	<i>Cerithidea djadjariensis</i>	24	15	81
Mid	G	<i>Cerithidea djadjariensis</i>	35	33	33
	G	<i>Cerithidea cingulata</i>	23	22	55
	Bi	<i>Saccostrea cucullata</i>	16	15	70
Low	Bi	<i>Saccostrea cucullata</i>	18	37	37
	G	<i>Cerithidea djadjariensis</i>	10	20	57
	G	<i>Batillaria zonalis</i>	6	12	69

Bi = Bivalve, G = Gastropod

**Table 3.8.** Mean values of number of species, density, Shannon-Weaver Diversity Index ( $H'$ ) and Pielou's Species Evenness ( $J$ ) at every tidal level and 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	7	422	1.06	1.43	0.54	0.64
	M	12	780	1.57			
	L	10	340	1.65			
TC2	H	5	258	0.93	1.25	0.57	0.63
	M	9	668	1.43			
	L	9	416	1.39			
TC3	H	7	705	1.04	1.17	0.55	0.58
	M	8	673	1.15			
	L	9	587	1.31			
ST	H	8	612	1.37	1.30	0.65	0.66
	M	9	421	1.59			
	L	5	192	0.95			

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

### Appendix III List of recorded fauna at every sampling zone

Sep 2012 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						
A	Amphipoda spp.						1					1						
Ba	<i>Balanus amphitrite</i>	1										1						
Bi	<i>Cyclina sinensis</i>	1										1						
Bi	<i>Dosinia japonica</i>		1									1						
Bi	<i>Geloina erosa</i>					1						2						
Bi	<i>Saccostrea cucullata</i>	3	4	8	1	1	2	1	1	3	1	23						
Bi	<i>Xenostrobus atrata</i>			1								1						
C	<i>Hemigrapsus penicillatus</i>	1			1			3	1	2		8						
C	<i>Nanosarma minutum</i>										1	1						
C	<i>Uca lactea</i>									1		1						
G	<i>Batillaria multiformis</i>	33	2	14	19	147	55	56	24	62	40	73	32	39	31	18	1	646
G	<i>Batillaria zonalis</i>	2								2								4
G	<i>Cerithidea cingulata</i>	72	12	2	3	3	1	28	1	24	1	20	1	24	1			164
G	<i>Cerithidea djadjariensis</i>	12	8	2	7	7	8	9	3	18	7	7	29	1	3			107
G	<i>Cerithidea rhizophorarum</i>								16									16
G	<i>Echinolittorina radiata</i>							2										2
G	<i>Littoraima melanostoma</i>	1			1				7									9
G	<i>Monodonta labio</i>	7		20	1	1	2	2	2	5	4	4	8	1	1			50
G	<i>Nassarius festivus</i>						1											1
G	<i>Nerita polita</i>	2						5				5	5	1				13
G	<i>Planaxis sulcatus</i>										1							1

**Appendix III (Cont'd)** *List of recorded fauna at every sampling zone*

Sep 2012	Sampling zone TC 1	High tidal level (2.0 m above C.D.)										sub-total							
Gp	Taxon	1	2	3	4	5	6	7	8	9	10	C	C	C	C	C	C	C	
OI	Marine oligochaete spp.	Q	C	Q	C	C	Q	C	Q	C	C	Q	C	Q	C	Q	C	Q	2
Sp	<i>Sipunculus nudus</i>						1												1
<b>Total</b>																	<b>1056</b>		

**Appendix III (Cont'd) List of recorded fauna at every sampling zone**

Gp	Taxon	Mid tidal level (1.5 m above C.I.D.)										sub-total								
		1	2	3	4	5	6	7	8	9	10									
Ba	<i>Balanus amphitrite</i>					1	1													2
Bi	<i>Anodontia stearnsiana</i>																	1		1
Bi	<i>Barbatia signata</i>				5					2										7
Bi	<i>Barbatia virescens</i>	5	2	6					4	7			1	1						26
Bi	<i>Cyclina sinensis</i>													1						1
Bi	<i>Geloina erosa</i>	1																		1
Bi	<i>Ruditapes philippinarum</i>												1							1
Bi	<i>Saccostrea cucullata</i>	91	33	38	54	29			67	66		11	6	35						430
Bi	<i>Xenostrobus atrata</i>	1							2	1										4
C	<i>Hemigrapsus penicillatus</i>	1	1		2	1				13		1		5						24
C	<i>Nanosesarma minutum</i>								1											1
F	<i>Omobranchus fasciolatoceps</i>						1													1
G	<i>Batillaria multiformis</i>	85	12	59	33	5	79	72	44	106		84	9	1	46					635
G	<i>Batillaria zonalis</i>									1										1
G	<i>Cellana toreuma</i>	4	3	2	4				5	2		1		3						24
G	<i>Cerithidea cingulata</i>	1	4	2	1	5		5	1			1	1	71						92
G	<i>Cerithidea djadjariensis</i>	5	18	26	21	13			20	12		6	82	2	22					227
G	<i>Cerithidea rhizophorarum</i>	4							1			1								8
G	<i>Lepidozona</i> sp.								1											1
G	<i>Lunella coronata</i>			2	4	1			5	3			1	4						22
G	<i>Monodonta labio</i>	81	2	30	37	5	42	42	36	96		34	7	21						391



**Appendix III (Cont'd) List of recorded fauna at every sampling zone**

Sep 2012		Mid tidal level (1.5 m above C.I.D.)										sub-total		
Sampling zone	TC 1	1	2	3	4	5	6	7	8	9	10			
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	C
G	<i>Nassarius festivus</i>	1												2
G	<i>Nerita polita</i>	2	8		5	4			2			1		22
G	<i>Patelloida pygmaea</i>						1							1
G	<i>Patelloida saccharina</i>								1					1
G	<i>Planaxis sulcatus</i>	5	4			1								10
Hc	<i>Pagurus dubius</i>			3	3									6
Sp	<i>Sipunculus nudus</i>	1	1	1			2			1		1		7
Total													1949	

### Appendix III (Cont'd) List of recorded fauna at every sampling zone

Sep 2012		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	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	sub-total
Ba	<i>Balanus amphitrite</i>	14	1			4	4	4	48		33																104
Bi	<i>Anodontia stearnsiana</i>						3		3																		6
Bi	<i>Barbatia virescens</i>							4		6																	10
Bi	<i>Caecella chinensis</i>				1				1																		2
Bi	<i>Cyclina sinensis</i>	1				2																					3
Bi	<i>Ruditapes philippinarum</i>							1		2																	3
Bi	<i>Saccostrea cucullata</i>	27	1		2	7	5	26		34	22																124
Bi	<i>Xenostrobus atrata</i>					1				1																	2
C	<i>Hemigrapsus penicillatus</i>							6		2																	8
C	<i>Macrophthalmus erato</i>		1	1																							2
C	<i>Nanosesarma minutum</i>							4		1																	5
C	<i>Uca lactea</i>					1																					1
G	<i>Batillaria multiformis</i>	3	3		11	2	10	1	5	4	48	3	2	7	20												119
G	<i>Batillaria zonalis</i>	15	12	1	15	1	23	17	5	6	4	10		1	110												110
G	<i>Cellana toreuma</i>									1	3				4												4
G	<i>Cerithidea cingulata</i>	19	9	1	2	9	3	1							44												44
G	<i>Cerithidea djadjariensis</i>	25	1	50	7	5	7	1	9	1	20	4	39	1	177												177
G	<i>Lepidozona</i> sp.										1				1												1
G	<i>Lunella coronata</i>	4	2			1	10	8	3	1	18				55												55
G	<i>Monodonta labio</i>	3			1	1		1	1	12	18				37												37
G	<i>Nassarius festivus</i>				3	2	1	1		3	7				17												17

**Appendix III (Cont'd) List of recorded fauna at every sampling zone**

Sep 2012 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		
G	<i>Nerita polita</i>	4					3	1					2	1		11
G	<i>Patelloida saccharina</i>												1			1
G	<i>Thais clavigera</i>												1	1		2
Hc	<i>Clibanarius</i> sp.												1			1
P	Maldanidae spp.				1											2

**Appendix III (Cont'd) List of recorded fauna at every sampling zone**

Sep 2012		High tidal level (2.0 m above C.D.)										sub-total		
Sampling zone	TC 2	1	2	3	4	5	6	7	8	9	10			
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Ba	<i>Balanus amphitrite</i>	3		1		1		1						6
Bi	<i>Cyclina sinensis</i>		1						1					2
Bi	<i>Saccostrea cucullata</i>	11		34	25	2								72
C	<i>Hemigrapsus penicillatus</i>				2				3			3		8
C	<i>Nanosesarma minutum</i>											1		1
C	<i>Perisesarma bidens</i>											1		1
C	<i>Philyra carinata</i>			1										1
C	<i>Uca lactea</i>							1						1
G	<i>Batillaria multiformis</i>			73		1				1				75
G	<i>Batillaria zonalis</i>	6	1		1				2					10
G	<i>Cerithidea cingulata</i>	16	23	62	25	1	1	7	1					136
G	<i>Cerithidea djadjariensis</i>	35	48	1	29	1	34	29	1	33	50	36	1	314
G	<i>Cerithidea rhizophorarum</i>											1		2
G	<i>Lunella coronata</i>	3		1										4
G	<i>Monodonta labio</i>				6									6
G	<i>Nerita polita</i>			1										1
G	<i>Terebralia sulcata</i>						4							4
P	Maldanidae spp.						1							1
												Total	645	

### Appendix III (Cont'd) List of recorded fauna at every sampling zone

Gp	Taxon	Mid tidal level (1.5 m above C.I.D.)										sub-total		
		1	2	3	4	5	6	7	8	9	10			
Ba	<i>Balanus amphitrite</i>				3		11		39	71	10			134
Bi	<i>Barbatia signata</i>		4										1	5
Bi	<i>Barbatia virescens</i>	6	4											10
Bi	<i>Cyclina sinensis</i>			1						1	1		1	4
Bi	<i>Geloina erosa</i>	1												1
Bi	<i>Ruditapes philippinarum</i>							4						4
Bi	<i>Saccostrea cucullata</i>			31	7		55	82	33	62	45			315
C	<i>Epixanthus</i> sp.	2												2
C	<i>Hemigrapsus penicillatus</i>	3	3		1						6			13
C	<i>Nanosesarma minutum</i>		1							1				2
C	<i>Portunus</i> sp.											1		1
C	<i>Uca lactea</i>				1			1	2					4
G	<i>Batillaria multiformis</i>	43	1	20	1	11	7	2	1	6	5	1	2	100
G	<i>Batillaria zonalis</i>	5		12	2		7							35
G	<i>Cerithidea cingulata</i>	58	2	1	75	52	5	2	3	27	38	16	18	304
G	<i>Cerithidea djadjariensis</i>	65	1	1	62	64	44	1	72	1	92	1	40	597
G	<i>Lunella coronata</i>	7	8	2	2	2	1						2	24
G	<i>Monodonta labio</i>	5	72	4	5	2								88
G	<i>Nassarius festivus</i>	6												6
G	<i>Nerita polita</i>	2	4			1								7
G	<i>Terebralia sulcata</i>								1	8				9

**Appendix III (Cont'd) List of recorded fauna at every sampling zone**

Sep 2012	Sampling zone TC 2	Mid tidal level (1.5 m above C.I.D.)										sub-total	
Gp	Taxon	1	2	3	4	5	6	7	8	9	10	C	
Hc	<i>Pagurus dubius</i>	1											1
OI	Marine oligochaete spp.										1		1
P	Maldanidae spp.				1								1
Sp	<i>Sipunculus nudus</i>				3								3
<b>Total</b>												<b>1671</b>	

**Appendix III (Cont'd) List of recorded fauna at every sampling zone**

Sep 2012		Low tidal level (1.0 m above C.D.)										sub-total					
Sampling zone	TC 2	1	2	3	4	5	6	7	8	9	10						
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C				
Ba	<i>Balanus amphitrite</i>		11		2				2					15			
Bi	<i>Barbatia signata</i>					1					1			2			
Bi	<i>Barbatia virescens</i>							1	5		1			7			
Bi	<i>Cyclina sinensis</i>							1				1		2			
Bi	<i>Geloina erosa</i>									1				1			
Bi	<i>Ruditapes philippinarum</i>					1	1	1					3	8			
Bi	<i>Saccostrea cucullata</i>	2	15	36	42	18				10				123			
Bi	<i>Xenostrobus atrata</i>						2							2			
C	<i>Hemigrapsus penicillatus</i>						1		4					7			
C	<i>Nanosesarma minutum</i>				2					1				3			
C	<i>Uca vocans</i>		1											1			
G	<i>Batillaria multiformis</i>	2	4		6	3	4	2	1	13	1	7	3	4	1	51	
G	<i>Batillaria zonalis</i>	4	7	1	2	1	3	4	1	4	6	4	8	2	3	53	
G	<i>Cerithidea cingulata</i>	50	1		6	55	3					7	4	1	5	140	
G	<i>Cerithidea djadjariensis</i>	50	4	3	18	5	57	2	87	57	5	12	63	58	62	51	536
G	<i>Lunella coronata</i>					1	2			6		7	2	11	2	31	
G	<i>Monodonta labio</i>					2	11			4		5	7	2		31	
G	<i>Nassarius festivus</i>									5		1	3	1		18	
G	<i>Nerita polita</i>											1		1		2	
P	Maldanidae spp.														1	2	

**Appendix III (Cont'd) List of recorded fauna at every sampling zone**

Sep 2012	Sampling zone	TC 2	Low tidal level (1.0 m above C.D.)										sub-total									
Gp	Taxon	1	2	3	4	5	6	7	8	9	10	C	Q	C	Q	C	Q	C	Q	C	Q	sub-total
P	Nereididae spp.	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	1
Sp	<i>Sipunculus nudus</i>																					5
Total																						1041



**Appendix III (Cont'd) List of recorded fauna at every sampling zone**

Sep 2012		High tidal level (2.0 m above C.D.)										sub-total		
Sampling zone	TC 3	1	2	3	4	5	6	7	8	9	10			
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Ba	<i>Balanus amphitrite</i>			2										2
Bi	<i>Barbatia virescens</i>				1									1
Bi	<i>Cyclina sinensis</i>	1				1			1					3
Bi	<i>Geloina erosa</i>										1			1
Bi	<i>Ruditapes philippinarum</i>		1			2		1						4
Bi	<i>Saccostrea cucullata</i>	1	2	1	72	6	8							90
C	<i>Hemigrapsus penicillatus</i>			2										2
C	<i>Perisesarma bidens</i>				1									1
C	<i>Philyra carinata</i>		1											1
C	<i>Uca borealis</i>							1						1
C	<i>Uca lactea</i>					1		1				1		3
G	<i>Batillaria multiformis</i>	1	2		3	30	55	67	2	59	8	33	180	440
G	<i>Batillaria zonalis</i>		4	2		22								28
G	<i>Cerithidea cingulata</i>	63	1	14	3	29	81	22		1	44	52		325
G	<i>Cerithidea djadjariensis</i>	89	1	82	56	77	125	1	41	72	130	120	1	831
G	<i>Cerithidea rhizophorarum</i>				2									2
G	<i>Lunella coronata</i>		2	1	2									5
G	<i>Monodonta labio</i>			4			4							8
G	<i>Nerita polita</i>			2	1	1	1			1				5
G	<i>Planaxis sulcatus</i>				4									4
G	<i>Terebralia sulcata</i>			1										1

**Appendix III (Cont'd) List of recorded fauna at every sampling zone**

Sep 2012		High tidal level (2.0 m above C.D.)										sub-total				
Sampling zone	TC 3	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	
Hc	<i>Clibanarius</i> sp.				1											1
HSc	<i>Tachypleus tridentatus</i>									1						1
Ne	Nemertea spp.											1				1
P	Maldanidae spp.					2										2
Total														1763		

### Appendix III (Cont'd) List of recorded fauna at every sampling zone

Gp	Taxon	Mid tidal level (1.5 m above C.D.)										sub-total					
		1	2	3	4	5	6	7	8	9	10						
Ba	<i>Balanus amphitrite</i>	1									3						4
Bi	<i>Barbata signata</i>			1													1
Bi	<i>Caecella chinensis</i>				1							1					1
Bi	<i>Cyclina sinensis</i>					3					1						5
Bi	<i>Ruditapes philippinarum</i>			2													2
Bi	<i>Saccostrea cucullata</i>	1	35		3					8	1			15			63
Bi	<i>Xenostrobus atrata</i>		1														1
C	<i>Hemigrapsus penicillatus</i>		6	1													7
C	<i>Nanosarman minutum</i>		2														2
C	<i>Uca lactea</i>			1						1							2
G	<i>Batillaria multiformis</i>	18	158	93	4	36	4	1	23	1	57	2	98	40	67	7	609
G	<i>Batillaria zonalis</i>	60	6	2	25	1	3	8	2	2							109
G	<i>Cerithidea cingulata</i>	19	7	2	45	5	18	5	16	1	46	4	51	9	75	2	329
G	<i>Cerithidea djadjariensis</i>	49	23	5	60	3	99	6	2	57	73	2	21	1	43		449
G	<i>Cerithidea rhizophorarum</i>								50		1						51
G	<i>Lunella coronata</i>	1	1										1		1		4
G	<i>Monodonta labio</i>		18								2		2	2	3		25
G	<i>Nassarius festivus</i>		1														2
G	<i>Nerita polita</i>	3	4										4				11
P	Maldanidae spp.																3

**Appendix III (Cont'd) List of recorded fauna at every sampling zone**

Sep 2012	Sampling zone TC 3	Mid tidal level (1.5 m above C.I.D.)										sub-total	
Gp	Taxon	1	2	3	4	5	6	7	8	9	10	C	sub-total
Sp	<i>Siphonosoma cumanense</i>	Q	C	Q	C	Q	C	Q	C	Q	C	Q	1
Sp	<i>Sipunculus nudus</i>	Q	C	Q	C	Q	C	Q	C	Q	C	Q	1
Total												1682	

**Appendix III (Cont'd) List of recorded fauna at every sampling zone**

Sep 2012 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	C			
Ba	<i>Balanus amphitrite</i>	1				1				1		3			
Bi	<i>Barbata signata</i>	1										1			
Bi	<i>Barbata virescens</i>	1										1			
Bi	<i>Ruditapes philippinarum</i>					1						1			
Bi	<i>Saccostrea cucullata</i>	89	116	65	31	12		18	26	77	7	441			
C	<i>Hemigrapsus penicillatus</i>	1			1	6		1	1	2		16			
C	<i>Nanosarma minutum</i>	5										5			
C	<i>Perisesarma fasciata</i>						1	1				2			
C	<i>Thalassidroma crenata</i>							1				1			
C	<i>Uca lactea</i>								1			1			
G	<i>Batillaria multiformis</i>	1		6	8	20	50	42	4	25	78	19	3	13	269
G	<i>Batillaria zonalis</i>				2	1		3				3		7	13
G	<i>Cellana toreuma</i>						1								4
G	<i>Cerithidea cingulata</i>		2	7	1	2		12	20	31	2	29	2	63	106
G	<i>Cerithidea djadjariensis</i>		18	2	1	3	2	25	47	35	2	63	2	198	198
G	<i>Cerithidea rhizophorarum</i>								1	2					3
G	<i>Littoraima melanostoma</i>	2								4					6
G	<i>Lunella coronata</i>	5						1		1		2			9
G	<i>Monodonta labio</i>	84			32	63	75	21	32	29	1	359			359
G	<i>Nassarius festivus</i>														1
G	<i>Nassarius semiplicatus</i>					1									1



### Appendix III (Cont'd) List of recorded fauna at every sampling zone

Sep 2012	Sampling zone ST	High tidal level (2.0 m above C.D.)																		sub-total				
Gp	Taxon	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	sub-total		
Bi	<i>Barbatia signata</i>						1															1	1	
Bi	<i>Caecella chinensis</i>	1																					1	1
Bi	<i>Saccostrea cucullata</i>	11	6	6			36	5	9	10	18											101	101	
Bi	<i>Xenostrobus atrata</i>	2																				2	2	
C	<i>Hemigrapsus penicillatus</i>		3				1												1	3		8	8	
C	<i>Nanosesarma minutum</i>																		1			4	4	
F	<i>Periophthalmus cantonensis</i>																					1	1	
G	<i>Batillaria multiformis</i>	72	55	8	34	26	76	92			36											399	399	
G	<i>Cellana foreuma</i>						2	14	13		15											69	69	
G	<i>Cerithidea cingulata</i>						19	16			7											43	43	
G	<i>Cerithidea djadjariensis</i>	18	22	38	29	13	68	32	3	4	8											235	235	
G	<i>Cerithidea rhizophorarum</i>	2		1	1																	4	4	
G	<i>Clithon oualaniensis</i>		1																			1	1	
G	<i>Littoraria ardouiniana</i>																					1	1	
G	<i>Lunella coronata</i>						6	4	3	11	6											30	30	
G	<i>Monodonta labio</i>	4	75	38	13	31	16	14	10	26	65	1										293	293	
G	<i>Nassarius festivus</i>	1	6		3		4	20	142	139												315	315	
G	<i>Nerita polita</i>	4	3	2		1	3	2	2	2												19	19	
G	<i>Planaxis sulcatus</i>	2		1																		3	3	





**Appendix III (Cont'd) List of recorded fauna at every sampling zone**

Sep 2012	Sampling zone ST	Mid tidal level (1.5 m above C.D.)										sub-total	
Gp	Taxon	1	2	3	4	5	6	7	8	9	10	C	sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C
G	<i>Nerita polita</i>			1		2	1						4
G	<i>Patelloida saccharina</i>					4							4
G	<i>Turritella terebra</i>								1				1
P	Goniadidae spp.							1		1			2
<b>Total</b>												1053	

**Appendix III (Cont'd) List of recorded fauna at every sampling zone**

Sep 2012	Sampling zone ST	Mid tidal level (1.0 m above C.D.)										sub-total	
Gp	Taxon	1	2	3	4	5	6	7	8	9	10	C	sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C
Ba	<i>Balanus amphitrite</i>	3					11		1				15
Bi	<i>Anomalocardia squamosa</i>				1								1
Bi	<i>Barbatia signata</i>								2				2
Bi	<i>Barbatia virescens</i>									2	1		3
Bi	<i>Saccostrea cucullata</i>	68				2			69	12		26	177
C	<i>Nanosesarma minutum</i>								1				1
G	<i>Batillaria multiformis</i>			1				1	1			1	4
G	<i>Batillaria zonalis</i>	3	1	7	3	31		9	3				58
G	<i>Cellana toreuma</i>											2	2
G	<i>Cerithidea cingulata</i>			1			9	15					25
G	<i>Cerithidea djadjariensis</i>			1			35	4	35	19		3	97
G	<i>Cerithidea rhizophorarum</i>							2					2
G	<i>Lepidozona</i> sp.									1		3	4
G	<i>Lunella coronata</i>	3				1			10	7		10	31
G	<i>Monodonta labio</i>								1	11		7	19
G	<i>Nassarius festivus</i>	14				6		1	7			3	31
G	<i>Nerita polita</i>											2	2
P	Maldanidae spp.			2	1				1				4
S	<i>Alpheus distinguendus</i>			1									1
S	<i>Oratosquilla kempfi</i>					1							1
<b>Total</b>												<b>480</b>	