



**Figure 2.1.** Locations of sampling zones. 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).

**TC1**



**TC2**



**TC3**



**ST**

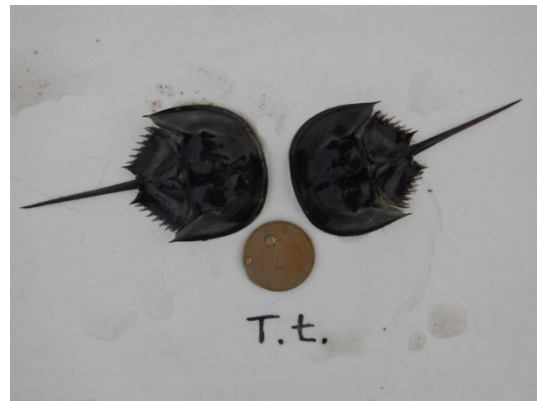


**Figure 2.2.** *Photographic record of the environment in every sampling zone.*

**TC3** *Carcinoscorpius rotundicauda*

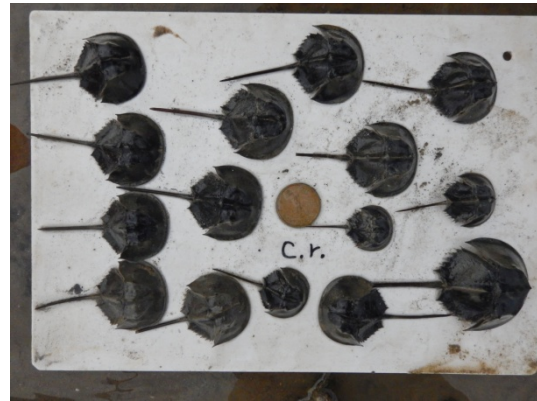


**TC3** *Tachypleus tridentatus*

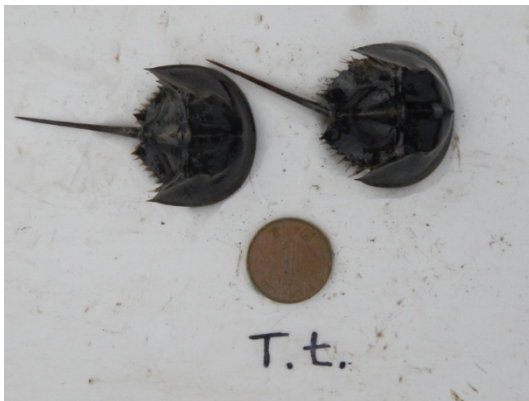


**Figure 3.1.** *Examples of photographic records of horseshoe crab (Dec. 2016)*

**ST** *Carcinoscorpius rotundicauda*



**ST** *Tachypleus tridentatus*



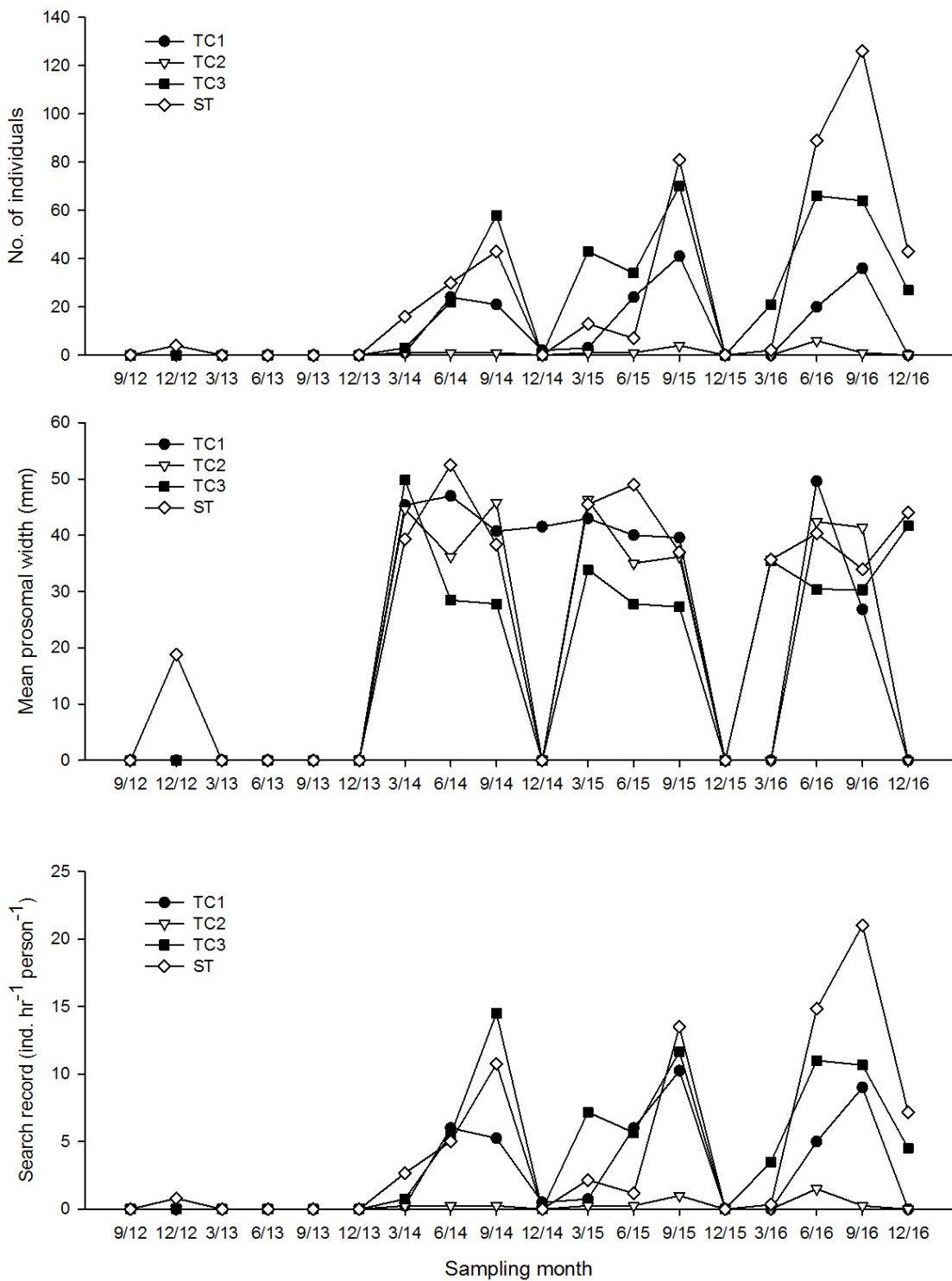
**Figure 3.1 (Cont'd).** *Examples of photographic records of horseshoe crab (Dec. 2016)*

**Table 3.1.** Summary of horseshoe crab survey in every sampling zone

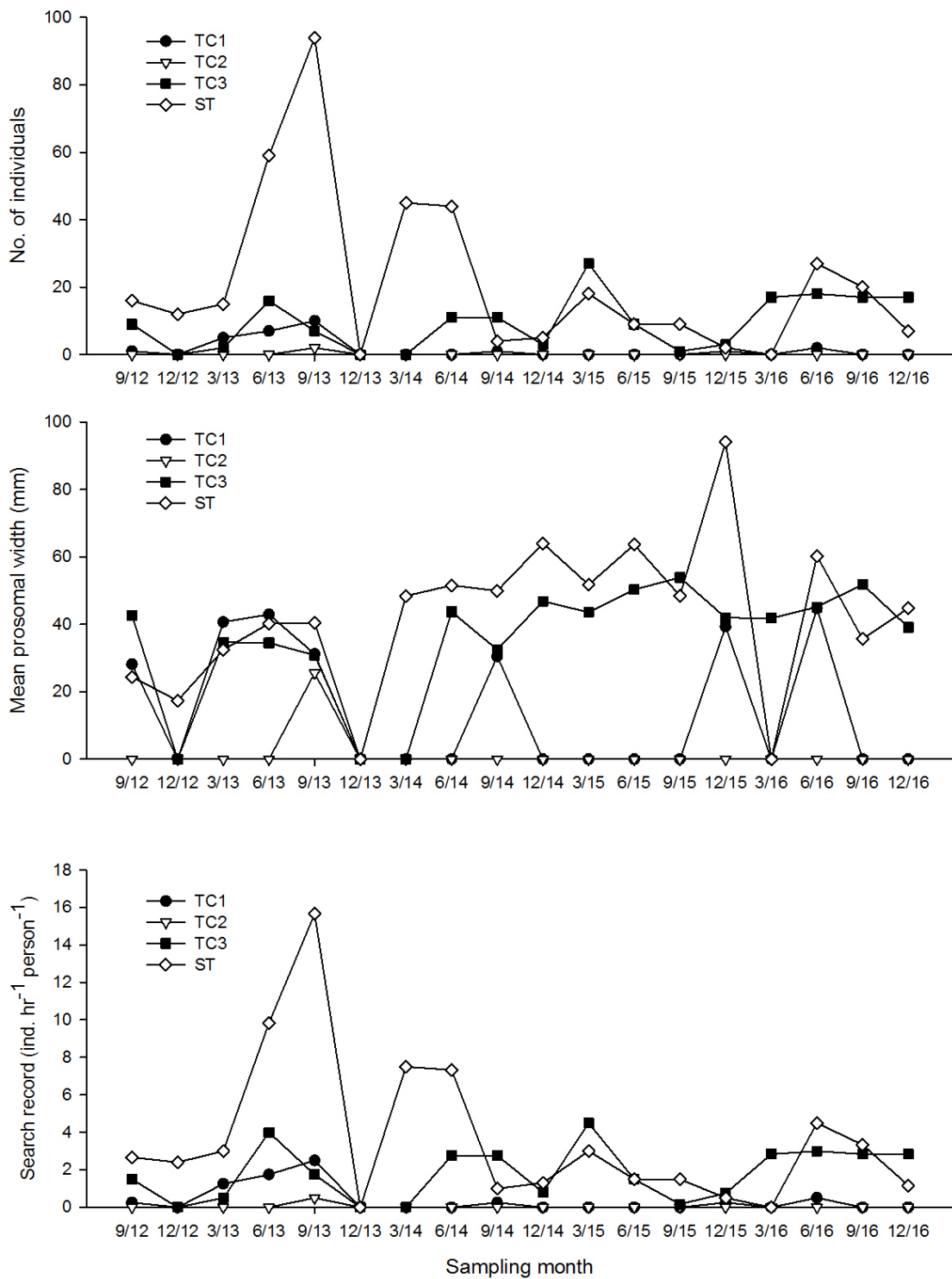
	TC1	TC2	TC3	ST
Search duration (hr)	2	2	3	3
<b><i>Carcinoscorpius rotundicauda</i></b>				
no. of individuals			27	43
mean prosomal width (mm)			41.68	44.05
max. prosomal width (mm)	N.A.	N.A.	65.73	66.22
min. prosomal width (mm)			16.85	25.61
Search record (ind. hr <sup>-1</sup> person <sup>-1</sup> )			4.5	7.2
<b><i>Tachypleus tridentatus</i></b>				
no. of individuals			17	7
mean prosomal width (mm)			39.13	44.79
max. prosomal width (mm)	N.A.	N.A.	64.24	52.57
min. prosomal width (mm)			20.40	41.50
Search record (ind. hr <sup>-1</sup> person <sup>-1</sup> )			2.8	1.2



**Figure 3.2.** *Photographic records of mating pair (above) and moult (below) of Carcinoscorpius rotundicauda (Mar.2015)*

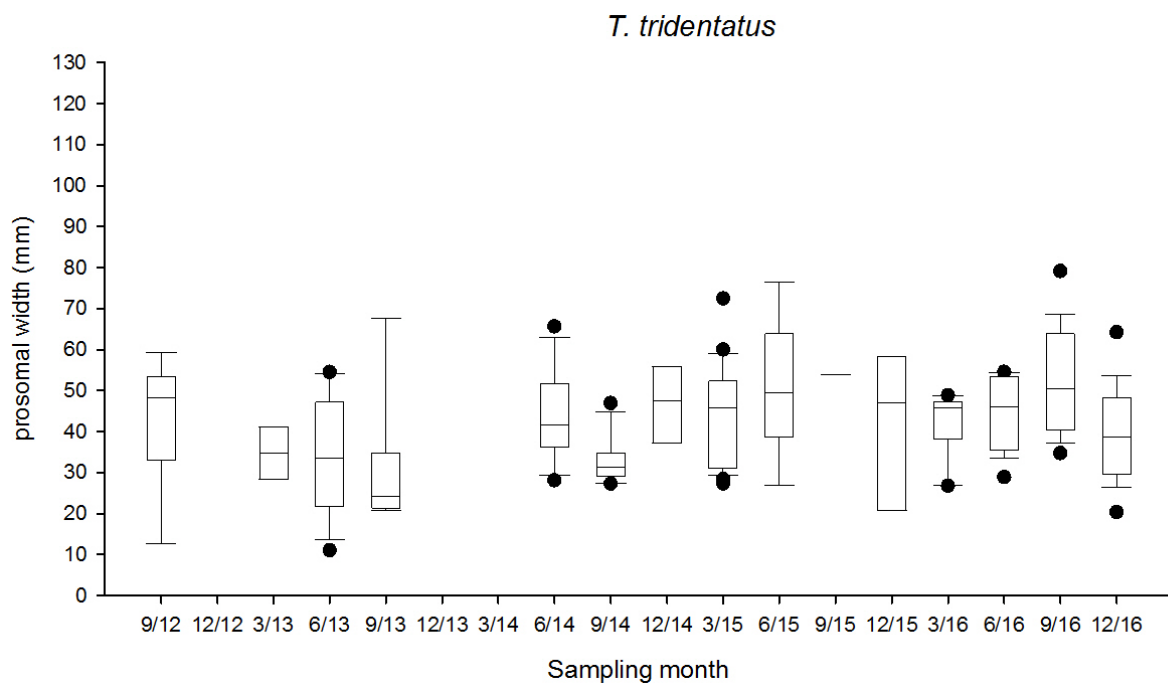
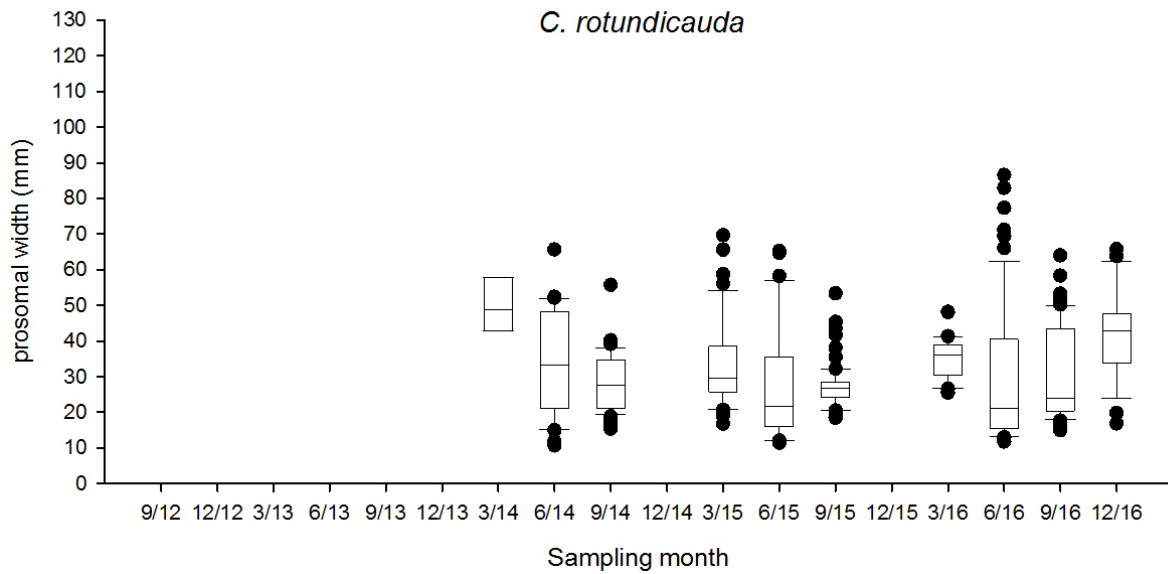


**Figure 3.3.** Changes of number of individuals, mean prosomal width and search record of horseshoe crab *Carcinoscorpis rotundicauda* in every sampling zone along the sampling months

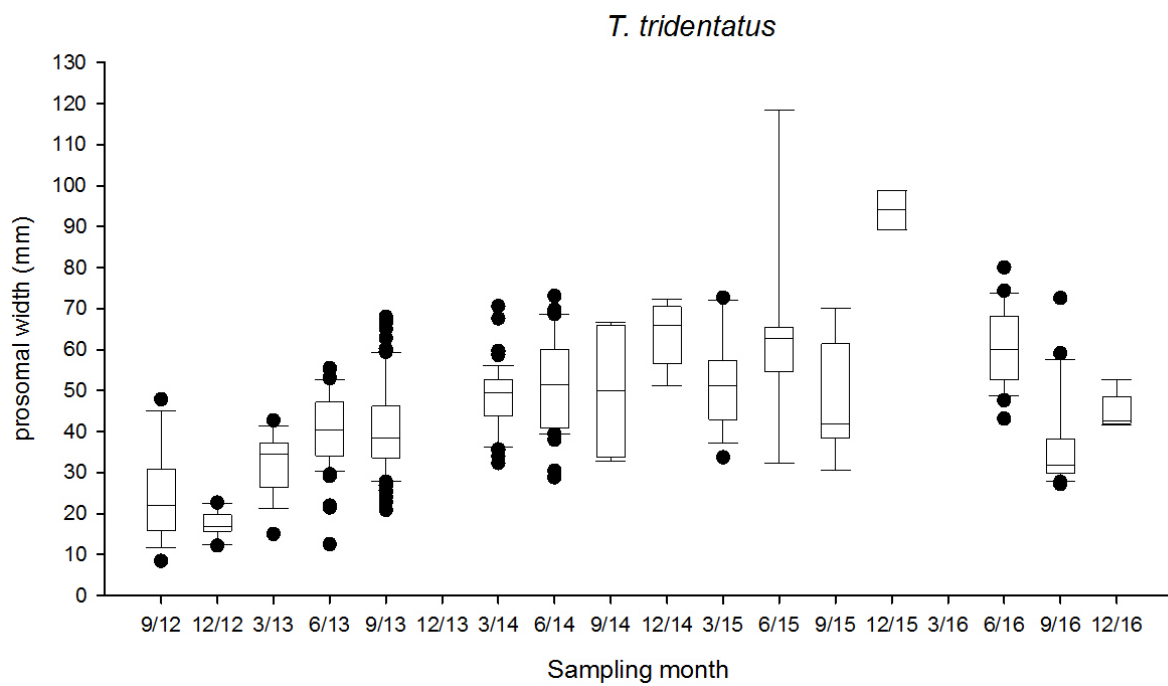
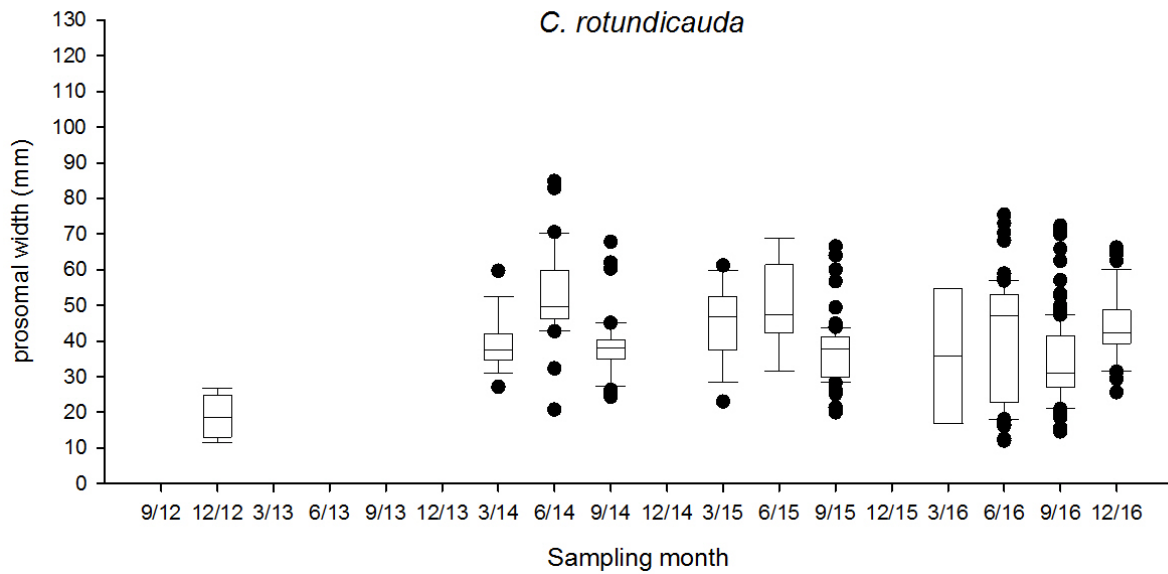


**Figure 3.4.** Changes of number of individuals, mean prosomal width and search record of horseshoe crab *Tachypleus tridentatus* in every sampling zone along the sampling months





**Figure 3.5.** Box plot of prosomal width of horseshoe crab in the sampling zone TC3 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.)



**Figure 3.6.** 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.)

TC3 *Halophila ovalis*



ST *Halophila ovalis*



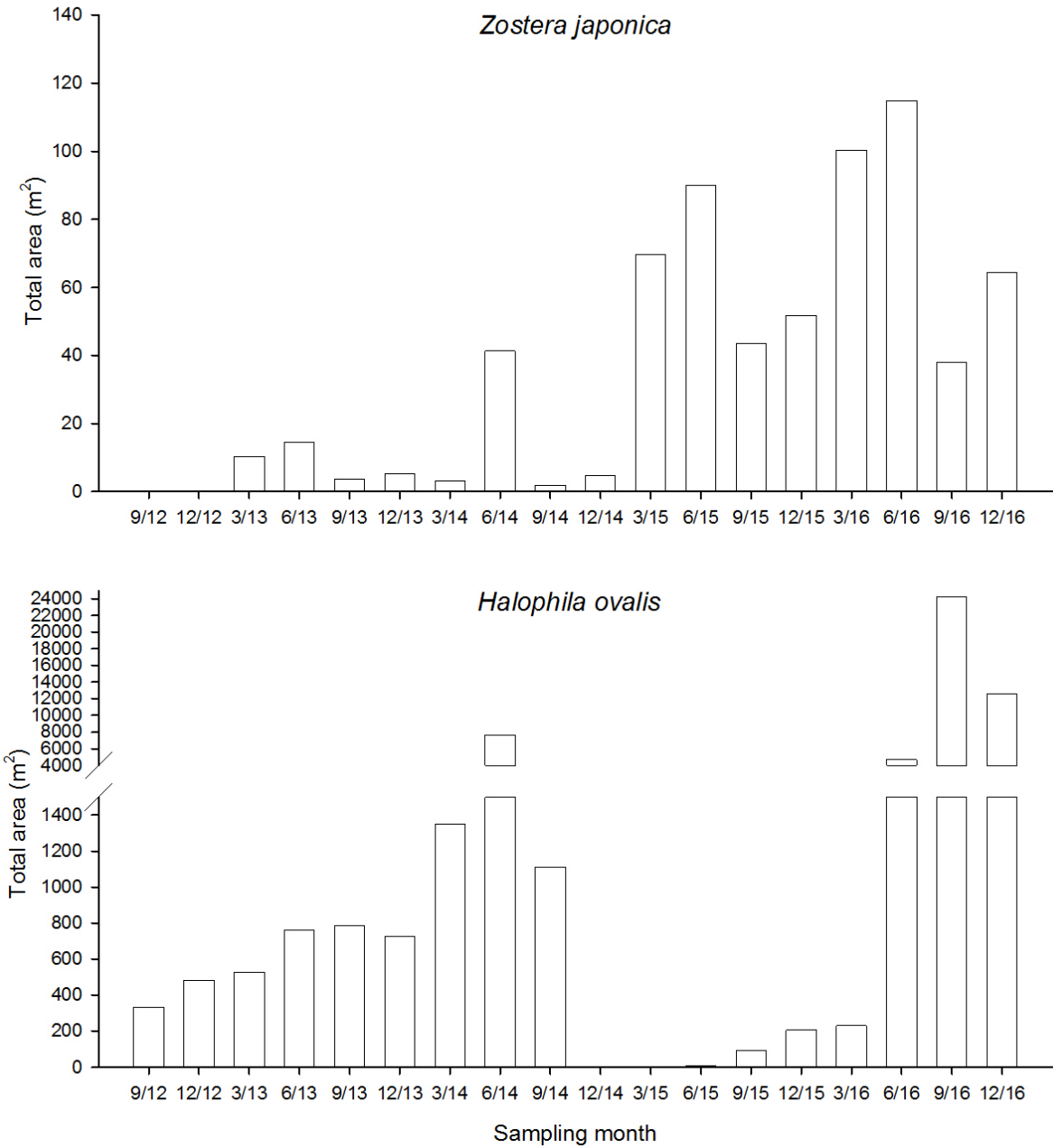
ST *Zostera japonica*



**Figure 3.7.** Examples of photographic records of seagrass beds survey (Dec. 2016)

**Table 3.2.** Summary of seagrass beds survey

Sampling zone	TC3	ST	
	<i>Halophila ovalis</i>	<i>Halophila ovalis</i>	<i>Zostera japonica</i>
Number of patches	3	11	1
Total area (m <sup>2</sup> )	55.1	12550.4	64.5
Average area (m <sup>2</sup> )	18.4	1140.9	19.0



**Figure 3.8.** Temporal changes of estimated total area of seagrass beds in ST

**Jun. 2014**



**Dec. 2014**



**Mar. 2015**



**Sep. 2015**



**Mar. 2016**



**Dec. 2016**

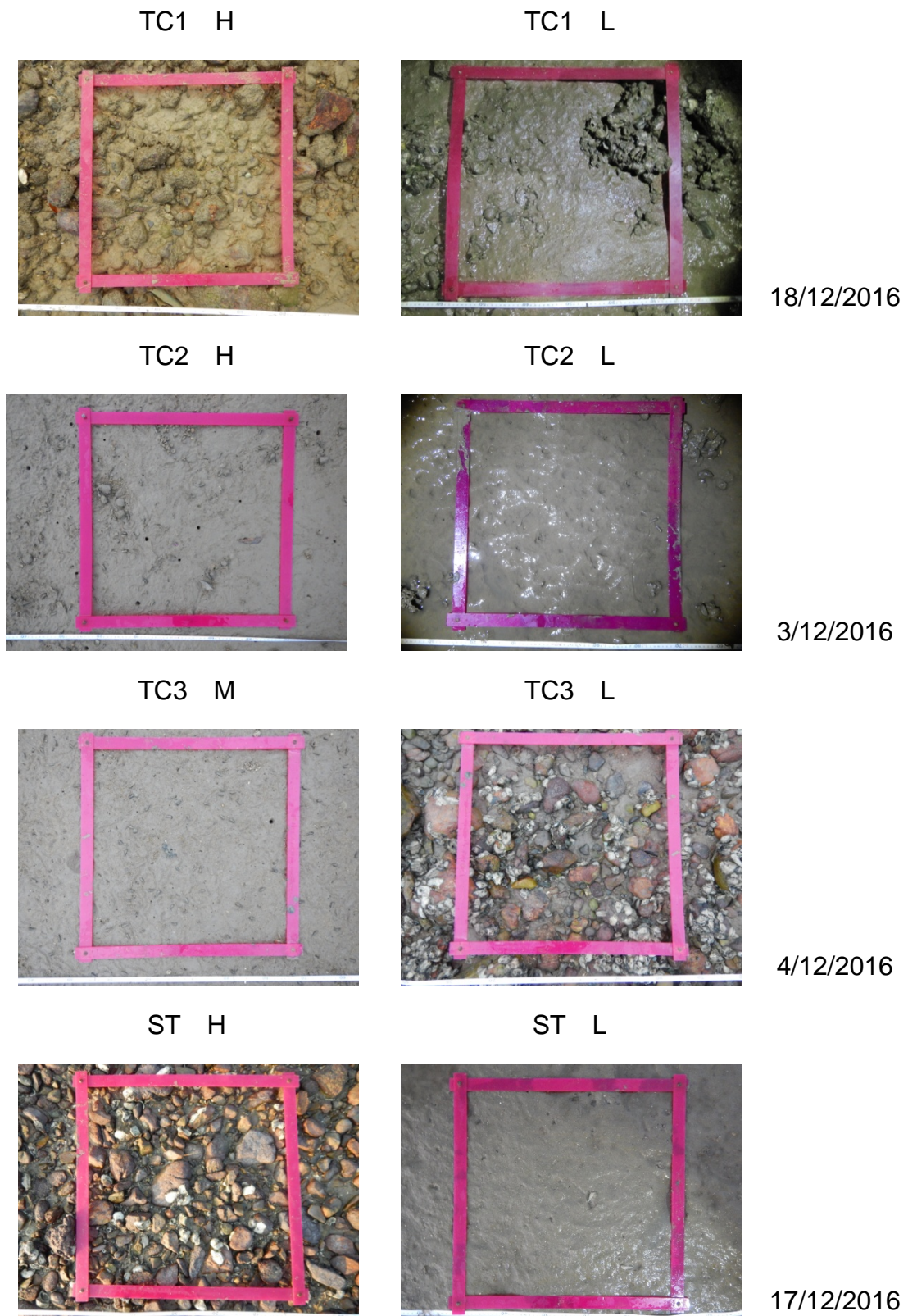


**Figure 3.9.** Comparison of pictures taken in different sampling months shows the disappearance and recolonization of seagrass beds.

**Table 3.3.** *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	90	10	
	M	80	20	
	L	60		40
TC2	H		70	30
	M	10	60	30
	L			100
TC3	H		50	50
	M		70	30
	L	90		10
ST	H	100		
	M	80	20	
	L	20	50	30

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



**Figure 3.10.** *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 3.4.** *Total abundance, density and number of taxon of every phylum*

Phylum	Total Abundance	%	Density (ind. m <sup>-2</sup> )	Number of taxon
<i>Dec. 2016</i>				
Mollusca	9231	94.9	308	36
Arthropoda	383	3.9	13	13
Annelida	60	0.6	2	9
Sipuncula	16	0.2	1	1
Echiura	14	0.1	0	1
Nemertea	12	0.1	0	1
Cnidaria	6	0.1	0	1
Platyhelminthes	2	0.0	0	1
Chordata	1	0.0	0	1
<b>Total</b>	9725			

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 3.5.** *The number of individuals, relative abundance (percentage) and density of each phylum in 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> )
Annelida	6	0.2	1	29	1.8	4	19	0.6	3	6	0.4	1
Arthropoda	102	3.2	14	171	10.4	23	82	2.5	11	28	1.7	4
Chordata							1	0.0	0			
Cnidaria	2	0.1	0							4	0.2	1
Echiura	10	0.3	1				3	0.1	0	1	0.1	0
Mollusca	3034	95.8	405	1446	87.6	193	3129	96.4	417	1622	97.5	216
Nemertea	7	0.2	1	1	0.1	0	2	0.1	0	2	0.1	0
Platyhelminthes	1	0.0	0				1	0.0	0			
Sipuncula	4	0.1	1	3	0.2	0	8	0.2	1	1	0.1	0
<b>Sub-total</b>	<b>3166</b>			<b>1650</b>			<b>3245</b>			<b>1664</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 3.6.** *The abundant species (relative abundance >10%) in 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>	524	85	85
Mid	G	<i>Batillaria multiformis</i>	136	37	37
	Bi	<i>Saccostrea cucullata</i>	95	26	63
	G	<i>Monodonta labio</i>	74	20	83
Low	Bi	<i>Saccostrea cucullata</i>	110	38	38
	G	<i>Batillaria multiformis</i>	29	10	48

Bi = Bivalve, G = Gastropod

**Table 3.6 (Cont'd).** *The abundant species (relative abundance >10%) in 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>	144	47	47
	G	<i>Cerithidea cingulata</i>	84	28	75
	Bi	<i>Saccostrea cucullata</i>	33	11	86
Mid	Bi	<i>Saccostrea cucullata</i>	64	27	27
	G	<i>Batillaria zonalis</i>	50	21	48
	C	<i>Uca</i> sp.	38	16	64
	G	<i>Cerithidea djadjariensis</i>	30	13	77
Low	Bi	<i>Saccostrea cucullata</i>	64	53	53
	G	<i>Batillaria zonalis</i>	18	15	67

Bi = Bivalve, C = Crab, G = Gastropod

**Table 3.6 (Cont'd).** *The abundant species (relative abundance >10%) in every sampling zone*

Sampling zone TC3	Group	Species	Mean density (ind. m <sup>-2</sup> )	Relative abundance (%)	Cumulative relative abundance (%)
High	G	<i>Batillaria multiformis</i>	216	44	44
	G	<i>Cerithidea djadjariensis</i>	183	38	82
	G	<i>Cerithidea cingulata</i>	66	13	95
Mid	G	<i>Cerithidea djadjariensis</i>	140	56	56
	G	<i>Batillaria multiformis</i>	33	13	69
	G	<i>Cerithidea cingulata</i>	32	13	82
Low	Bi	<i>Saccostrea cucullata</i>	262	47	47
	G	<i>Monodonta labio</i>	98	17	64
	G	<i>Batillaria multiformis</i>	67	12	76

Bi = Bivalve, G = Gastropod

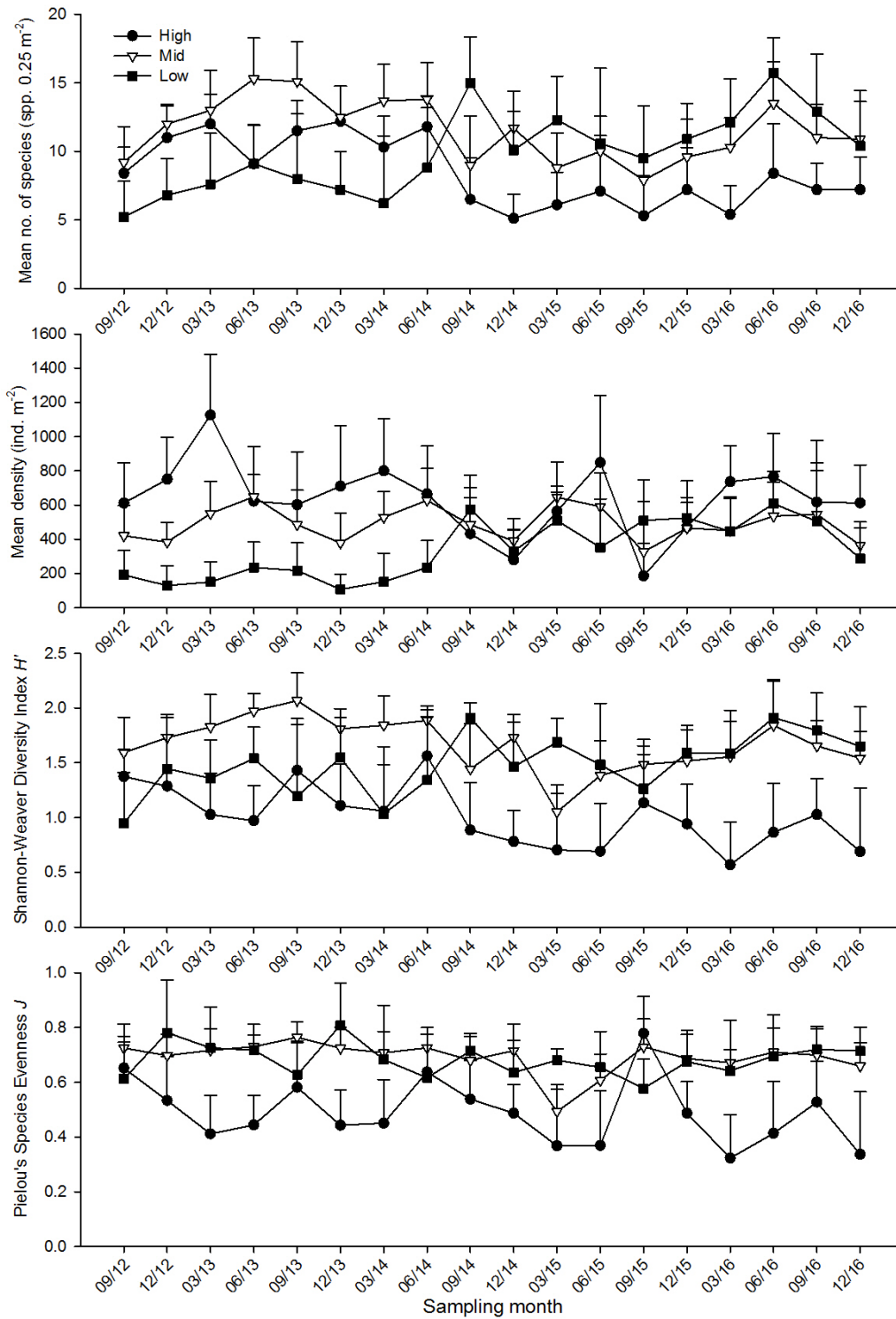
**Table 3.6 (Cont'd).** *The abundant species (relative abundance >10%) in every sampling zone*

Sampling zone ST	Group	Species	Mean density (ind. m <sup>-2</sup> )	Relative abundance (%)	Cumulative relative abundance (%)
High	G	<i>Monodonta labio</i>	83	31	31
	G	<i>Batillaria multiformis</i>	62	23	54
	Bi	<i>Saccostrea cucullata</i>	41	15	69
	G	<i>Lunella coronata</i>	36	13	82
Mid	Bi	<i>Saccostrea cucullata</i>	146	43	43
	G	<i>Lunella coronata</i>	44	13	56
	G	<i>Monodonta labio</i>	40	12	67
Low	Bi	<i>Saccostrea cucullata</i>	30	53	53

Bi = Bivalve, G = Gastropod

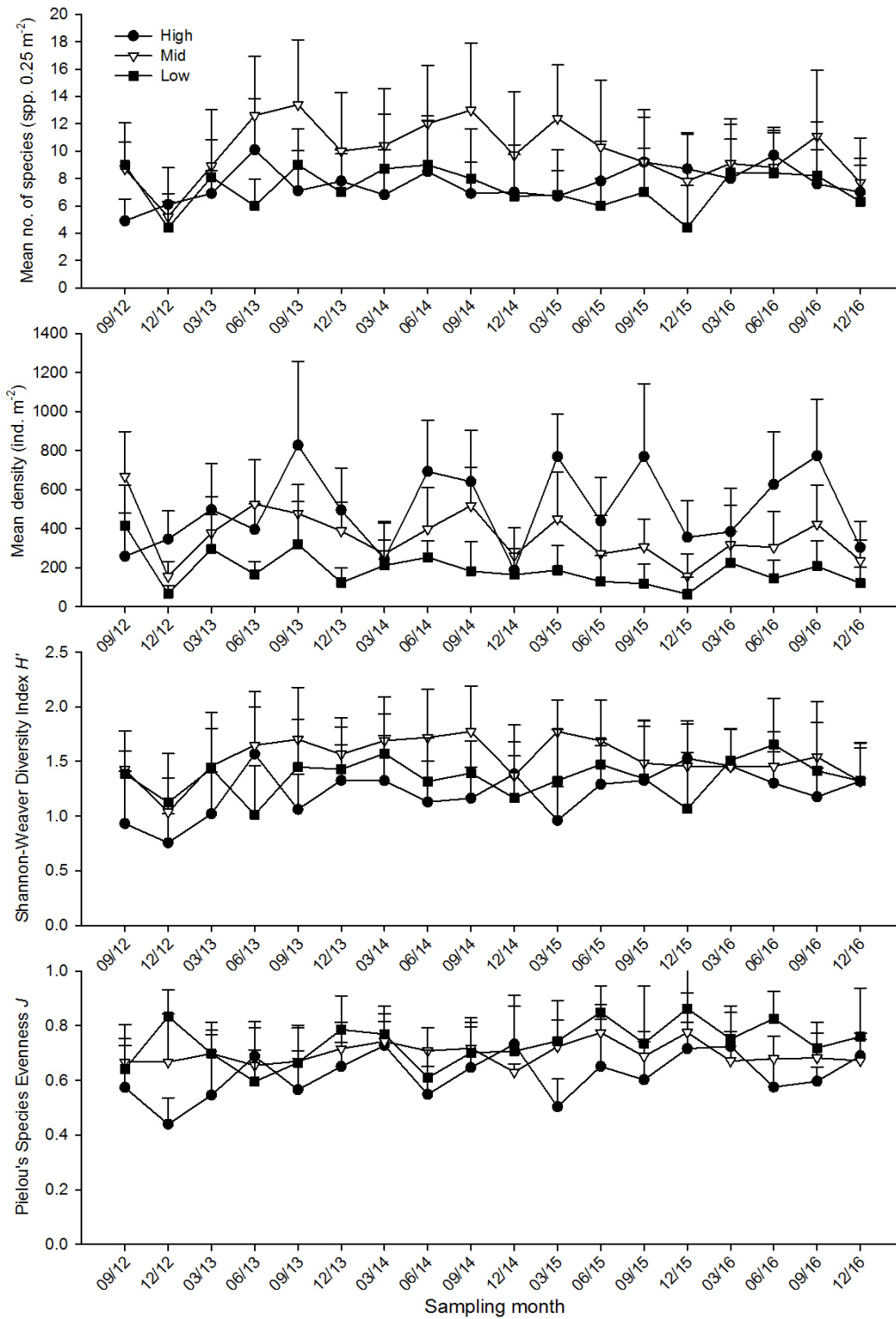
**Table 3.7.** Mean values of species number, density, Shannon-Weaver Diversity Index ( $H'$ ) and Pielou's Species Evenness ( $J$ ) at every tidal level and in every sampling zone

Sampling zone	Tidal level	Mean species number (spp. 0.25 m <sup>2</sup> )	Mean species number across tidal levels	Mean density (ind. m <sup>-2</sup> )	Mean density across tidal levels	Mean $H'$	Mean $H'$ across tidal levels	Mean $J$	Mean $J$ across tidal levels
TC1	H	7	10	613	422	0.7	1.3	0.3	0.6
	M	11		366		1.5		0.7	
	L	10		288		1.7		0.7	
TC2	H	7	7	303	220	1.3	1.3	0.7	0.7
	M	8		236		1.3		0.7	
	L	6		120		1.3		0.8	
TC3	H	6	8	488	433	0.9	1.2	0.5	0.6
	M	7		251		1.2		0.6	
	L	11		559		1.5		0.7	
ST	H	9	8	270	222	1.6	1.4	0.7	0.8
	M	13		340		1.8		0.7	
	L	3		56		0.8		0.8	

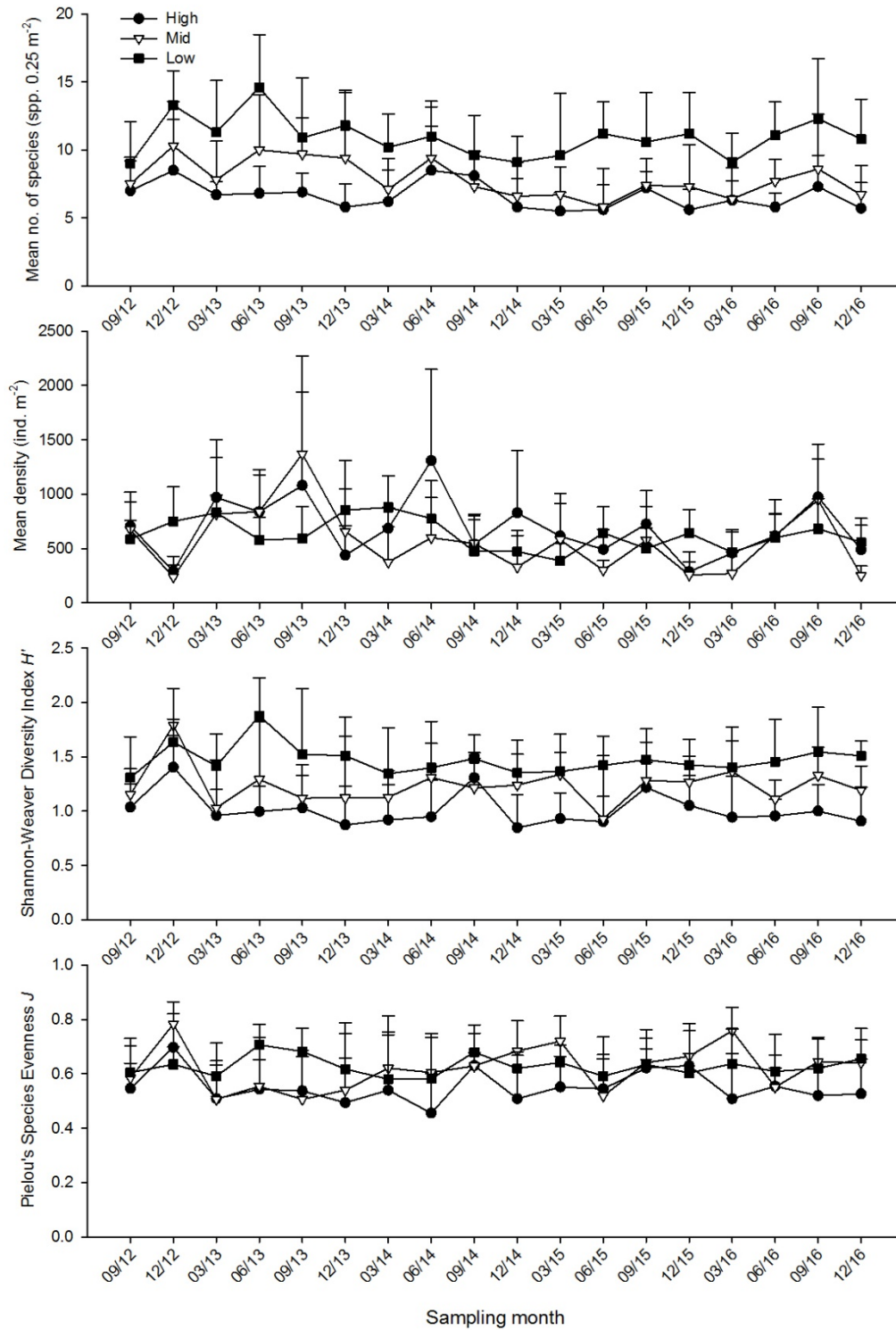


**Figure 3.11.** Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index ( $H'$ ) and Pielou's Species Evenness ( $J$ ) (mean + SD) at every tidal level in sampling zone TC1

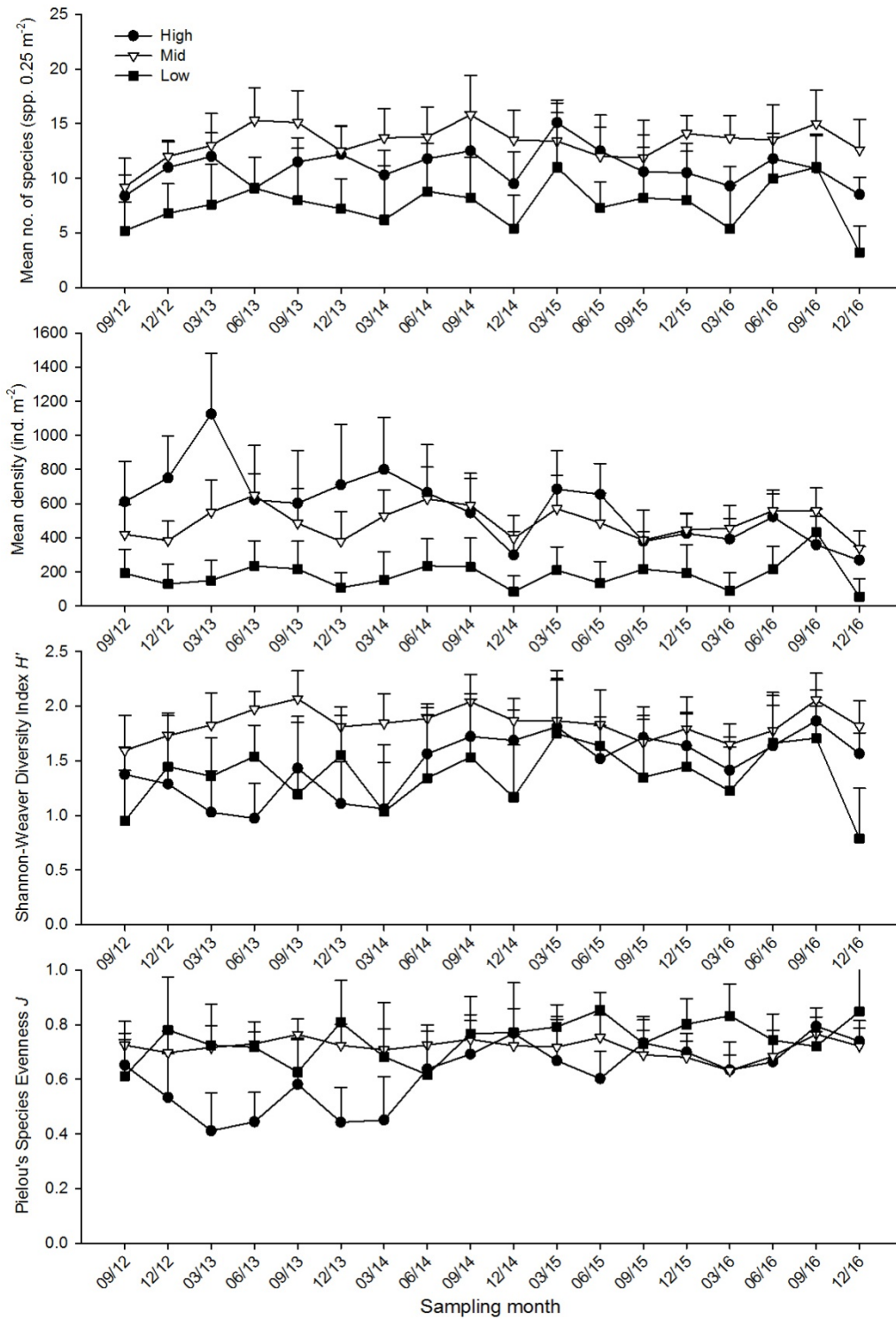




**Figure 3.12.** Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index ( $H'$ ) and Pielou's Species Evenness ( $J$ ) (mean + SD) at every tidal level in sampling zone TC2



**Figure 3.13.** 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 3.14.** 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

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



**Annex II. Record of horseshoe crab survey in every sampling zone.**

No.	Sub.	GPS coordinate	Record of prosomal width (mm)	
<u>Sampling site TC1</u> (Search hour = 2 hrs)			<i>Carcinoscorpius rotundicauda</i>	<i>Tachypleus tridentatus</i>
No record				
		<b>No. of ind.</b>	<b>0</b>	<b>0</b>
<u>Sampling site TC2</u> (Search hour = 2 hrs)			<i>Carcinoscorpius rotundicauda</i>	<i>Tachypleus tridentatus</i>
No record				
		<b>No. of ind.</b>	<b>0</b>	<b>0</b>

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

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

No.	Sub.	GPS coordinate		Record of prosomal width (mm)												
<u>Sampling site TC3 (Search hour = 3 hrs)</u>				<i>Carcinoscorpius rotundicauda</i>						<i>Tachypleus tridentatus</i>						
1	S	22° 16.989' N	113° 55.649' E							29.87	34.40					
2	S	22° 16.994' N	113° 55.657' E							30.06	30.34	27.81				
3	S	22° 17.001' N	113° 55.655' E	29.49	19.76											
4	M	22° 17.021' N	113° 55.655' E	45.11												
5	S	22° 16.950' N	113° 55.716' E	33.73	25.07											
6	S	22° 16.904' N	113° 55.742' E	41.65												
7	S	22° 16.979' N	113° 55.676' E	39.27												
8	S	22° 16.995' N	113° 55.646' E	36.79	16.85											
9	S	22° 17.043' N	113° 55.633' E	42.51	65.73					49.11	46.16					
10	S	22° 17.054' N	113° 55.621' E	49.75	56.76	44.24	45.84	43.66	44.25	63.79	64.24	47.47	38.66	50.01		
				62.13	40.27	51.22	42.77	46.59	47.72	35.10						
				26.71	28.62											
11	S	22° 17.085' N	113° 55.638' E							29.17	47.58	27.86	20.40	41.10	50.95	
<b>No. of ind.</b>				<b>27</b>						<b>17</b>						

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



**Annex III. Record of seagrass beds survey in every sampling zone**

Estimated area (m <sup>2</sup> )	Estimated coverage (%)		GPS coordinate		Remark	
<b>TC1 (search hour = 2 hrs) &amp; TC2 (search hour = 2 hrs)</b>						
No record						
<b>TC3 (search hour = 3 hrs) <i>Halophila ovalis</i></b>						
13.0	80	a single patch	22° 17.073' N	113° 55.600' E	A small patch of seagrass bed at tidal zone 0.5-1.0 m above C.D.	
13.0	80	a single patch	22° 17.082' N	113° 55.600' E	A small patch of seagrass bed at tidal zone 0.5-1.0 m above C.D.	
29.2	80	a single patch	22° 17.095' N	113° 55.588' E	A small patch of seagrass bed at tidal zone 0.5-1.0 m above C.D.	
<b>ST (search hour = 3 hrs) <i>Halophila ovalis</i></b>						
10838.3	70		22° 17.100' N	113° 55.579' E	--	
		horizontal line	22° 17.168' N	113° 55.518' E	An extensive patch of seagrass bed at tidal zone 0.5-1.5 m above C.D.	
			22° 17.126' N	113° 55.526' E		--
		vertical line	22° 17.150' N	113° 55.555' E		
145.1	80	a single patch	22° 17.190' N	113° 55.535' E	A medium patch of seagrass bed at tidal zone 0.5-1.0 m above C.D.	
43.7	80	a single patch	22° 17.188' N	113° 55.529' E	A small patch of seagrass bed at tidal zone 0.5-1.0 m above C.D.	
8.1	90	a single patch	22° 17.186' N	113° 55.518' E	A small patch of seagrass bed at tidal zone 0.5-1.0 m above C.D.	
9.0	90	a single patch	22° 17.185' N	113° 55.513' E	A small patch of seagrass bed at tidal zone 0.5-1.0 m above C.D.	
25.0	90	a single patch	22° 17.182' N	113° 55.507' E	A small patch of seagrass bed at tidal zone 0.5-1.0 m above C.D.	



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

Estimated area (m <sup>2</sup> )	Estimated coverage (%)		GPS coordinate		Remark
<b>ST (search hour = 3 hrs) <i>Halophila ovalis</i></b>					
38.0	90	a single patch	22° 17.185' N	113° 55.508' E	A small patch of seagrass bed at tidal zone 0.5-1.0 m above C.D.
62.7	80	a single patch	22° 17.186' N	113° 55.503' E	A small patch of seagrass bed at tidal zone 0.5-1.0 m above C.D.
796.0	50-70	horizontal line	22° 17.168' N	113° 55.477' E	--
			22° 17.191' N	113° 55.478' E	A horizontal strand of seagrass bed nearby the seaward side of mangrove
		vertical line	22° 17.180' N	113° 55.473' E	-- area at tidal level 2.0 m above C.D.
			22° 17.181' N	113° 55.484' E	
448.8	50-80	horizontal line	22° 17.199' N	113° 55.475' E	--
			22° 17.213' N	113° 55.473' E	A medium, horizontal strand of seagrass bed nearby the seaward side of
		vertical line	22° 17.204' N	113° 55.471' E	-- mangrove area at tidal level 2.0 m above C.D.
			22° 17.203' N	113° 55.481' E	
135.7	50-80	horizontal line	22° 17.213' N	113° 55.476' E	--
			22° 17.218' N	113° 55.475' E	A medium, horizontal strand of seagrass bed nearby the seaward side of
		vertical line	22° 17.214' N	113° 55.470' E	-- mangrove area at tidal level 2.0 m above C.D.
			22° 17.216' N	113° 55.478' E	

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

Estimated area (m <sup>2</sup> )	Estimated coverage (%)		GPS coordinate	Remark
<b>ST (search hour = 3 hrs) <i>Zostera japonica</i></b>				
64.5	50-70	horizontal line	22° 17.202' N 113° 55.471' E	-- A medium, horizontal strand of seagrass bed nearby the seaward side of mangrove area at tidal level 2.0 m above C.D.
			22° 17.213' N 113° 55.472' E	

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

<b>Kingdom</b>	<b>Phylum</b>	<b>Class</b>	<b>Order</b>	<b>Family</b>	<b>Species</b>
Animalia	Annelida	Clitellata			Marine oligochaete spp.
Animalia	Annelida	Polychaeta	Eunicida	Onuphidae	Onuphidae spp.
Animalia	Annelida	Polychaeta	Phyllodocida	Goniadidae	Goniadidae spp.
Animalia	Annelida	Polychaeta	Phyllodocida	Nereididae	Nereididae spp.
Animalia	Annelida	Polychaeta	Phyllodocida	Polynoidae	Polynoidae spp.
Animalia	Annelida	Polychaeta	Terebellida	Ampharetidae	Ampharetidae spp.
Animalia	Annelida	Polychaeta	Terebellida	Terebellidae	Terebellidae spp.
Animalia	Annelida	Polychaeta		Maldanidae	Maldanidae spp.
Animalia	Annelida	Polychaeta		Orbiniidae	Orbiniidae spp.
Animalia	Arthropoda	Malacostraca	Decapoda	Diogenidae	<i>Clibanarius</i> sp.
Animalia	Arthropoda	Malacostraca	Decapoda	Grapsidae	<i>Metopograpsus latifrons</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</i> sp.
Animalia	Arthropoda	Malacostraca	Decapoda	Ocypodidae	<i>Uca vocans</i>
Animalia	Arthropoda	Malacostraca	Decapoda	Paguridae	<i>Pagurus dubius</i>
Animalia	Arthropoda	Malacostraca	Decapoda	Sesarmidae	<i>Nanosesarma minutum</i>
Animalia	Arthropoda	Malacostraca	Decapoda	Sesarmidae	<i>Perisesarma fasciata</i>
Animalia	Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Hemigrapsus penicillatus</i>
Animalia	Arthropoda	Malacostraca	Decapoda	Xanthidae	<i>Etisus laevimanus</i>
Animalia	Arthropoda	Maxillopoda	Sessilia	Balanidae	<i>Balanus amphitrite</i>
Animalia	Chordata	Actinopterygii	Perciformes	Gobiidae	<i>Periophthalmus cantonensis</i>
Animalia	Cnidaria	Anthozoa	Actiniaria	Diadumenidae	<i>Diadumene lineata</i>
Animalia	Echiura				Echiura spp.
Animalia	Mollusca	Bivalvia	Arcoida	Arcidae	<i>Barbatia virescens</i>
Animalia	Mollusca	Bivalvia	Euheterodonta	Hiatellidae	<i>Hiatella arctica</i>
Animalia	Mollusca	Bivalvia	Mytiloida	Mytilidae	<i>Xenostrobus atratus</i>
Animalia	Mollusca	Bivalvia	Ostreoida	Ostreidae	<i>Saccostrea cucullata</i>
Animalia	Mollusca	Bivalvia	Veneroida	Corbiculidae	<i>Geloina erosa</i>
Animalia	Mollusca	Bivalvia	Veneroida	Mesodesmatidae	<i>Caecella chinensis</i>
Animalia	Mollusca	Bivalvia	Veneroida	Tellinidae	<i>Tellina</i> sp.

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

Kingdom	Phylum	Class	Order	Family	Species
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	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	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	Littorinimorpha	Littorinidae	<i>Littoraria articulata</i>
Animalia	Mollusca	Gastropoda	Littorinimorpha	Rissoinidae	<i>Rissoina plicatula</i>
Animalia	Mollusca	Gastropoda	Neogastropoda	Muricidae	<i>Thais luteostoma</i>
Animalia	Mollusca	Gastropoda	Neogastropoda	Nassariidae	<i>Nassarius festivus</i>
Animalia	Mollusca	Gastropoda	Neogastropoda	Nassariidae	<i>Nassarius</i> sp.
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>
Animalia	Mollusca	Gastropoda		Trochidae	<i>Euchelus scaber</i>
Animalia	Mollusca	Gastropoda		Trochidae	<i>Monodonta labio</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	Platyhelminthes				Platyhelminthes spp.
Animalia	Sipuncula	Sipunculidea	Golfingiida	Sipunculidae	<i>Sipunculus nudus</i>

**Annex V. List of recorded fauna of intertidal soft shore community survey in every sampling zone**

Dec 2016 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>Saccostrea cucullata</i>	10		11								1				4		2		4		32
Bi	<i>Xenostrobus atratus</i>			1																		1
C	<i>Hemigrapsus penicillatus</i>					1																1
C	<i>Nanosesarma minutum</i>	1		3																		4
C	<i>Perisesarma fasciata</i>			1		1																2
Eh	<i>Echiura</i> spp.							1														1
G	<i>Batillaria bornii</i>	1																				1
G	<i>Batillaria multiformis</i>	32		57		49		191		152		116		153		149		159		251		1309
G	<i>Cerithidea cingulata</i>	24		11		1		1		1												38
G	<i>Cerithidea djadjariensis</i>	14		13		8				1					1							37
G	<i>Cerithidea rhizophorarum</i>	3		6		1				2		2										14
G	<i>Clithon faba</i>							1		1						1		4				7
G	<i>Clithon oualaniensis</i>																			1		1
G	<i>Littoraria articulata</i>	1														3				1		5
G	<i>Lunella coronata</i>	3				1		1								1						6
G	<i>Monodonta labio</i>	5		4		5		2		1		11		8		13		6		1		56
G	<i>Nassarius festivus</i>																	1				1
G	<i>Nerita polita</i>	1				1																2
G	<i>Rissoina plicatula</i>									2				3				3		1		9

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

Dec 2016 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	
G	<i>Terebralia sulcata</i>																				1	1
Ne	Nemertea spp.			1																		1
OI	Marine oligochaete spp.											2									1	3
																					<b>Total</b>	<b>1532</b>

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

Dec 2016 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>Anomalocardia squamosa</i>					1																1
Bi	<i>Barbatia virescens</i>	1						1										2		1		5
Bi	<i>Caecella chinensis</i>											1										1
Bi	<i>Saccostrea cucullata</i>	17		29				28		18		14		36		19		41		35		237
Bi	<i>Tellina</i> sp.						1															1
Bi	<i>Xenostrobus atratus</i>	2		1				4				3								1		11
C	<i>Hemigrapsus penicillatus</i>	3																				3
C	<i>Metopograpsus latifrons</i>	1						2				1										4
C	<i>Nanosesarma minutum</i>	2								3								1				6
C	<i>Uca</i> sp.									3												3
Eh	<i>Echiura</i> spp.	8		1																		9
G	<i>Batillaria bornii</i>	1																				1
G	<i>Batillaria multiformis</i>	4		27		1	7		41		62		88		31		43		36			340
G	<i>Cellana toreuma</i>	1									1						3		2			7
G	<i>Cerithidea cingulata</i>	1		2		1														1		5
G	<i>Cerithidea djadjariensis</i>	1		1		4	1						1		2					2		12
G	<i>Cerithidea rhizophorarum</i>	1						1		1												3
G	<i>Clithon oualaniensis</i>			2								1				2		1				6

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

Dec 2016 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	
G	<i>Euchelus scaber</i>																		1			1
G	<i>Lepidozona</i> sp.																1		1			2
G	<i>Littoraria articulata</i>	6						2		1		2		7								18
G	<i>Lunella coronata</i>	2		5				2		1		2		4		5		1		3		25
G	<i>Monodonta labio</i>	41		5				49		25		16		6		10		10		22		184
G	<i>Nassarius festivus</i>	1		1												1						3
G	<i>Nerita polita</i>			1						1		4										6
G	<i>Nipponacmea concinna</i>	1								1		2										4
G	<i>Patelloida pygmaea</i>	1																				1
Hc	<i>Pagurus dubius</i>						2															2
Ne	Nemertea spp.											4		1		1						6
OI	Marine oligochaete spp.											1										1
P	Maldanidae spp.						1															1
PI	Platyhelminthes spp.															1						1
Sp	<i>Sipunculus nudus</i>			2																1		3
																					<b>Total</b>	<b>914</b>



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

Dec 2016 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>	2		3		1										32				16		54
Bi	<i>Anomalocardia squamosa</i>			1	1																	2
Bi	<i>Barbatia virescens</i>	10		6				2		14				1								33
Bi	<i>Hiatella arctica</i>							1												1		2
Bi	<i>Ruditapes philippinarum</i>											1							1			2
Bi	<i>Saccostrea cucullata</i>	57		42				4		91		18		20		4		16		24		276
Bi	<i>Tellina</i> sp.												1									1
Bi	<i>Xenostrobus atratus</i>	1		1										1		11				3		17
C	<i>Charybdis</i> sp.																		1			1
C	<i>Hemigrapsus penicillatus</i>	1								1												2
C	<i>Nanosesarma minutum</i>	7		2										2		7						18
Cn	<i>Diadumene lineata</i>													1		1						2
G	<i>Batillaria bornii</i>									4			2	3								9
G	<i>Batillaria multiformis</i>	38		2	1	20	1	1				3		7								73
G	<i>Batillaria zonalis</i>			5	7	20	2	5				1	2									42
G	<i>Cellana toreuma</i>	3								3				2					1			9
G	<i>Cerithidea cingulata</i>							7				2	4	1								14
G	<i>Cerithidea djadjariensis</i>	1		1		1		10					2	9								24
G	<i>Cerithidea rhizophorarum</i>							1				1	2	1								5

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

Dec 2016 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>Clithon faba</i>							1														1
G	<i>Clithon oualaniensis</i>	1																				1
G	<i>Dentalium sinuosum</i>											1										1
G	<i>Euchelus scaber</i>							1						1		4		2		1		9
G	<i>Lepidozona</i> sp.																			1		1
G	<i>Lunella coronata</i>	11		2				8		6				3		7		3		5		45
G	<i>Monodonta labio</i>	27		2		2		2		15				2		2		2		6		60
G	<i>Nerita polita</i>	4		1												1						6
G	<i>Nipponacmea concinna</i>	1								4												5
G	<i>Patelloida pygmaea</i>	1																				1
G	<i>Thais luteostoma</i>	1																				1
Hc	<i>Pagurus dubius</i>																		1			1
P	Maldanidae spp.												1									1
Sp	<i>Sipunculus nudus</i>									1												1
																					<b>Total</b>	<b>720</b>

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

Dec 2016 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>					4						3				5						12
Bi	<i>Geloina erosa</i>			1				2														3
Bi	<i>Hiatella arctica</i>					1																1
Bi	<i>Saccostrea cucullata</i>			16		32		4				7		1		7		3		12		82
C	<i>Nanosesarma minutum</i>											1										1
C	<i>Uca</i> sp.									6											1	7
C	<i>Uca vocans</i>														1							1
G	<i>Batillaria multiformis</i>			1		2		1				3		3		1		2			1	14
G	<i>Batillaria zonalis</i>									1				7	1	6	2	2	1	11		31
G	<i>Cellana toreuma</i>															1						1
G	<i>Cerithidea cingulata</i>	15	1	30		35	1	31	2	7		5		27	1	30	1	11		14		211
G	<i>Cerithidea djadjariensis</i>	47	1	37		34	3	67	7	19		17		24	8	45	12	16		22	1	360
G	<i>Cerithidea rhizophorarum</i>	1		3		6		5		2						1				2		20
G	<i>Lunella coronata</i>					1						1						1		1		4
G	<i>Nassarius festivus</i>					1																1
G	<i>Nassarius</i> sp.																			1		1
G	<i>Nerita polita</i>											1										1
P	Ampharetidae spp.							3							1				2			6

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

Dec 2016 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			
P	Terebellidae spp.																					1
																					<b>Total</b>	<b>758</b>

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

Dec 2016 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>											3		1		3		5		8		20
Bi	<i>Barbatia virescens</i>													3								3
Bi	<i>Hiatella arctica</i>	1																		1		2
Bi	<i>Saccostrea cucullata</i>	19		7					7			17		52		10		12		36		160
C	<i>Hemigrapsus penicillatus</i>			1								1								1		3
C	<i>Nanosesarma minutum</i>		1											2						5		8
C	<i>Uca</i> sp.			49		39		5		1												94
G	<i>Batillaria bornii</i>			2																		2
G	<i>Batillaria multiformis</i>			1				1				1		8		5	2					18
G	<i>Batillaria zonalis</i>	5		6		10	1	34	3	25	2			10		25	3					124
G	<i>Cerithidea cingulata</i>	4		2		4	1	7	3	1				3	1	5	3					34
G	<i>Cerithidea djadjariensis</i>	11	3	7		20	4	8	3	3				3		10	3			1		76
G	<i>Cerithidea rhizophorarum</i>			1				2								1						4
G	<i>Euchelus scaber</i>			1																		1
G	<i>Lunella coronata</i>	1		13				1				1								6		22
G	<i>Monodonta labio</i>			1		1																2
G	<i>Nassarius festivus</i>							1														1
G	<i>Nerita polita</i>	1		2																		3
P	Ampharetidae spp.		2																			2

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

Dec 2016 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			
P	Maldanidae spp.		1				2									2		1				6
P	Onuphidae spp.															1			1			2
P	Orbiniidae spp.				2																	2
Sp	<i>Sipunculus nudus</i>	2																				2
																					<b>Total</b>	<b>591</b>

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

Dec 2016 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>													4		9		2				15
Bi	<i>Anomalocardia squamosa</i>																		1			1
Bi	<i>Circe</i> sp.																		1			1
Bi	<i>Hiatella arctica</i>							1										1				2
Bi	<i>Saccostrea cucullata</i>					1		16		12				30		60		21		19		159
C	<i>Hemigrapsus penicillatus</i>																			1		1
C	<i>Macrophthalmus</i> sp.	1																				1
C	<i>Nanosesarma minutum</i>			2										2				1				5
C	<i>Uca</i> sp.	3																				3
G	<i>Batillaria bornii</i>					2																2
G	<i>Batillaria multiformis</i>			1			1											1		1		4
G	<i>Batillaria zonalis</i>	3		3		4	1	9	2	5	3	3		5	1	1			1	1	2	44
G	<i>Cerithidea cingulata</i>	1		1		3	1			7	1					2		1				17
G	<i>Cerithidea djadjariensis</i>			2		4	1	2		4	1		1			1		1			1	18
G	<i>Cerithidea rhizophorarum</i>															1						1
G	<i>Euchelus scaber</i>																	1				1
G	<i>Lunella coronata</i>					8												2		4		14
Ne	Nemertea spp.										1											1
P	Maldanidae spp.												1		3					2		6

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

Dec 2016 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			
P	Onuphidae spp.		1										1		1					1		4
Sp	<i>Sipunculus nudus</i>																		1			1
																					<b>Total</b>	<b>301</b>



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

Dec 2016 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>Anomalocardia squamosa</i>	1																				1
Bi	<i>Barbatia virescens</i>							1														1
Bi	<i>Circe</i> sp.		1							1												2
Bi	<i>Geloina erosa</i>																1					1
Bi	<i>Saccostrea cucullata</i>					1		13														14
C	<i>Macrophthalmus erato</i>													1								1
C	<i>Uca</i> sp.									1												1
F	<i>Periopthalmus cantonensis</i>	1																				1
G	<i>Batillaria multiformis</i>	4		86	1	98	1	131	12	52	24	3		16		19		3		73	18	541
G	<i>Batillaria zonalis</i>			3			1															4
G	<i>Cerithidea cingulata</i>	30	3	1		16	2	36		25	3	19		15		6		5		2	1	164
G	<i>Cerithidea djadjariensis</i>	60	1			65	4	46	1	25	3	71	2	64		39	7	45		23	2	458
G	<i>Cerithidea rhizophorarum</i>					2		3		1				3		3		3		2		17
G	<i>Clithon oualaniensis</i>							1		3												4
Ne	Nemertea spp.																		1			1
P	Ampharetidae spp.								1							1						2
P	Maldanidae spp.														3			2				5
P	Nereididae spp.																			1		1

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

Dec 2016 Sampling zone TC 3 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
P	Onuphidae spp.														1							1
																					<b>Total</b>	<b>1220</b>

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

Dec 2016 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														1
Bi	<i>Anomalocardia squamosa</i>											2										2
Bi	<i>Cyclina sinesis</i>													1								1
Bi	<i>Ruditapes philippinarum</i>	1																				1
Bi	<i>Saccostrea cucullata</i>							8														8
C	<i>Macrophthalmus erato</i>								1													1
C	<i>Uca</i> sp.								1									12		11		24
G	<i>Batillaria bornii</i>							1														1
G	<i>Batillaria multiformis</i>	20	3	4		21		6	1	5				2		2		1		17		82
G	<i>Batillaria zonalis</i>	13		1		8		6	1	3		4		1		3		1				41
G	<i>Cerithidea cingulata</i>	6	5	13	1	5		5	3	16	1	8		5		7				6		81
G	<i>Cerithidea djadjariensis</i>	28	6	36	10	26		38	8	57	2	42	1	24	1	52	2	6	9	1		349
G	<i>Cerithidea rhizophorarum</i>	1				1				8		3		1		5						19
G	<i>Clithon oualaniensis</i>					1		1								1						3
G	<i>Lunella coronata</i>							1													1	2
G	<i>Monodonta labio</i>																				1	1
G	<i>Nassarius festivus</i>					1		1								1						3
P	Maldanidae spp.										3		1	1	1	1			1			8
																					<b>Total</b>	<b>628</b>

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

Dec 2016 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>														7							7
Bi	<i>Barbatia virescens</i>	1		2		4		13		16									1			37
Bi	<i>Hiatella arctica</i>	2		1		1		1														5
Bi	<i>Ruditapes philippinarum</i>	1																				1
Bi	<i>Saccostrea cucullata</i>	94		83		105		101		112		39		16		35		41		28		654
Bi	<i>Xenostrobus atratus</i>					1				1								3				5
C	<i>Hemigrapsus penicillatus</i>	3						3								3				2		11
C	<i>Nanosesarma minutum</i>	1		9		3		4		2												19
C	<i>Uca</i> sp.												14									14
Eh	<i>Echiura</i> spp.							2		1												3
G	<i>Batillaria bornii</i>	3														2						5
G	<i>Batillaria multiformis</i>	3		21		13		2		2		7				46		43		26	5	168
G	<i>Batillaria zonalis</i>													1								1
G	<i>Cellana toreuma</i>							6		2						1				1		10
G	<i>Cerithidea cingulata</i>	1		1		2								2				4		1	5	16
G	<i>Cerithidea djadjariensis</i>	4		2									4	14				3		1	17	45
G	<i>Cerithidea rhizophorarum</i>	1		1														1				3
G	<i>Littoraria articulata</i>			3		2						2										7
G	<i>Lunella coronata</i>	23		5		17		17		7		13				3		4		14		103

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

Dec 2016 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>Monodonta labio</i>	12		51		57		48		24		8				13		5		26		244
G	<i>Nerita polita</i>			1		4				1				1				2		2		11
G	<i>Nipponacmea concinna</i>	1						2		3												6
G	<i>Patelloida pygmaea</i>							1								4						5
G	<i>Thais luteostoma</i>					2																2
Hc	<i>Clibanarius</i> sp.	1																				1
Hc	<i>Pagurus dubius</i>					2																2
Ne	Nemertea spp.															1						1
P	Nereididae spp.			1																		1
P	Polynoidae spp.					1																1
Pl	Platyhelminthes spp.															1						1
Sp	<i>Sipunculus nudus</i>									8												8
																					<b>Total</b>	<b>1397</b>

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

Dec 2016 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	
Ba	<i>Balanus amphitrite</i>														1							1
Bi	<i>Barbatia virescens</i>														2							2
Bi	<i>Circe</i> sp.					1																1
Bi	<i>Geloina erosa</i>											1										1
Bi	<i>Saccostrea cucullata</i>			1		3		7		7		24		20		23		9		9		103
Bi	<i>Xenostrobus atratus</i>					2																2
C	<i>Hemigrapsus penicillatus</i>			3																		3
C	<i>Metopograpsus latifrons</i>											2										2
C	<i>Nanosesarma minutum</i>							1								1						2
Cn	<i>Diadumene lineata</i>	1																				1
G	<i>Batillaria bornii</i>			2										1		4		1		2		10
G	<i>Batillaria multiformis</i>	5		5		10		14		2		30		21		16		14		39		156
G	<i>Cellana grata</i>													3		3		2		1		9
G	<i>Cerithidea cingulata</i>			1														2				3
G	<i>Clithon faba</i>									3				4								7
G	<i>Clithon oualaniensis</i>							1						1		4		4				10
G	<i>Euchelus scaber</i>					1																1
G	<i>Lepidozona</i> sp.							1								1						2
G	<i>Littoraria articulata</i>			6		8		5		20		1								1		41

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

Dec 2016 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	
G	<i>Lunella coronata</i>	1		5		7		7		5		11		7		21		19		6		89
G	<i>Monodonta labio</i>	6		47		42		38		22		5		9		14		17		8		208
G	<i>Nerita polita</i>	2		5		3		4		1						1				1		17
G	<i>Nipponacmea concinna</i>															1						1
G	<i>Planaxis sulcatus</i>									1												1
Hc	<i>Pagurus dubius</i>											1										1
																					<b>Total</b>	<b>674</b>

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

Dec 2016 Sampling zone ST 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 virescens</i>					7		1		4				6		1		9		8		36
Bi	<i>Hiatella arctica</i>													9		2						11
Bi	<i>Ruditapes philippinarum</i>												1	2		2				6		11
Bi	<i>Saccostrea cucullata</i>	67		31		48		21		46		16		46		27		31		31		364
Bi	<i>Xenostrobus atratus</i>					4				4						1						9
C	<i>Etisus laevimanus</i>									1												1
C	<i>Macrophthalmus erato</i>																			1		1
C	<i>Metopograpsus latifrons</i>																			1		1
C	<i>Nanosesarma minutum</i>					1												1		2		4
Cn	<i>Diadumene lineata</i>			1		1						1										3
Eh	Echiura spp.	1																				1
G	<i>Batillaria bornii</i>	1												2		2		1		1		7
G	<i>Batillaria multiformis</i>	19		11				5		4				2		1		9		1		52
G	<i>Batillaria zonalis</i>					4		6														10
G	<i>Cellana grata</i>									1				3		6		2		5		17
G	<i>Cellana toreuma</i>	1		6		3		1		7		6				1		1		4		30
G	<i>Cerithidea cingulata</i>									1		2		2		1						6
G	<i>Cerithidea djadjariensis</i>	1		1		17		7		2								1		1		30



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

Dec 2016 Sampling zone ST 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>					3					1											4
G	<i>Clithon oualaniensis</i>										1											1
G	<i>Euchelus scaber</i>					5		2														7
G	<i>Lepidozona</i> sp.			1																		1
G	<i>Lunella coronata</i>	16		15		10		1		5		13		11		13		11		14		109
G	<i>Monodonta labio</i>	10		1		4		6		7		7		30		16		9		9		99
G	<i>Nassarius festivus</i>															2						2
G	<i>Nerita polita</i>	1								2		1		1		1		2		2		10
G	<i>Nipponacmea concinna</i>			1						4		2		1		1				1		10
G	<i>Patelloida pygmaea</i>											1		1						3		5
G	<i>Thais luteostoma</i>													1						2		3
Hc	<i>Pagurus dubius</i>											1								1		2
Ne	Nemertea spp.	1																				1
Sp	<i>Sipunculus nudus</i>	1																				1
																					<b>Total</b>	<b>850</b>

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

Dec 2016 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>																4					4
Bi	<i>Barbatia virescens</i>	7															2		2			11
Bi	<i>Circe</i> sp.							1					1									2
Bi	<i>Ruditapes philippinarum</i>																		1			1
Bi	<i>Saccostrea cucullata</i>	55		12													7					74
Bi	<i>Tellina</i> sp.													1								1
Bi	<i>Xenostrobus atratus</i>	8																				8
C	<i>Nanosesarma minutum</i>	4															1					5
G	<i>Batillaria multiformis</i>	1																				1
G	<i>Batillaria zonalis</i>	6																			2	8
G	<i>Cerithidea cingulata</i>															1						1
G	<i>Dentalium sinuosum</i>															1						1
G	<i>Euchelus scaber</i>	1															1					2
G	<i>Lunella coronata</i>	4															3		5			12
G	<i>Monodonta labio</i>	1																				1
G	<i>Nassarius festivus</i>			1																		1
Ne	Nemertea spp.																				1	1
P	Goniadidae spp.																				1	1
P	Nereididae spp.					1		1														2

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

Dec 2016 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	
P	Onuphidae spp.					1						2										3
																					<b>Total</b>	<b>140</b>

Key for faunal groups (Gp):

Ba: Barnacle, Bi: Bivalve, C: Crab, Cn: Cnidarin, Eh: Echiuran, F: Fish, G: Gastropod, Hc: Hermit crab, Ne: Nemertean, Ol: Oligochaete,

P: Polychaete, Pl: Platyhelminthes, Po: Polyplacophores, S: Shrimp, Sc: Scaphopods, Sp: Sipunculan