



**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.*



TC1



broken bike and plastic waste



trash gill net

TC3



boat wreckage

ST



trash gill net and hand trolley



a tangled horseshoe crab on a trash net

(record in Jun. 2017)

**Figure 2.3.** Examples of photographic record of the big trashes found on the mudflat.

TC3



ST



(photo taken in night survey)

**Figure 2.4.** *Examples of photographic record of the algal recruitment in TC3 and ST.*



*Carcinoscorpius rotundicauda*

*Tachypleus tridentatus*

TC1



TC3



ST



Figure 3.1. Examples of photographic records of horseshoe crab (Mar. 2018)

**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	1	0	22	8
mean prosomal width (mm)	41.21	\	55.27	55.22
max. prosomal width (mm)	\	\	93.88	66.75
min. prosomal width (mm)	\	\	26.63	35.18
Search record (ind. hr <sup>-1</sup> person <sup>-1</sup> )	0.3	0.0	3.7	1.3
<b><i>Tachypleus tridentatus</i></b>				
no. of individuals	1	0	31	12
mean prosomal width (mm)	39.61	\	55.83	56.71
max. prosomal width (mm)	\	\	85.36	87.61
min. prosomal width (mm)	\	\	38.90	39.63
Search record (ind. hr <sup>-1</sup> person <sup>-1</sup> )	0.3	0.0	5.2	2.0

Mar. 2015 - ST



Jun. 2017 – TC2



**Female**



**Male**

**Figure 3.2.** *Photographic records of mating pair of Carcinoscorpius rotundicauda*



Jun. 2017 - TC3



Dec. 2017 - TC3



**Figure 3.2 (Cont'd).** *Photographic records of mating pair of Carcinoscorpius rotundicauda*



Jun. 2017



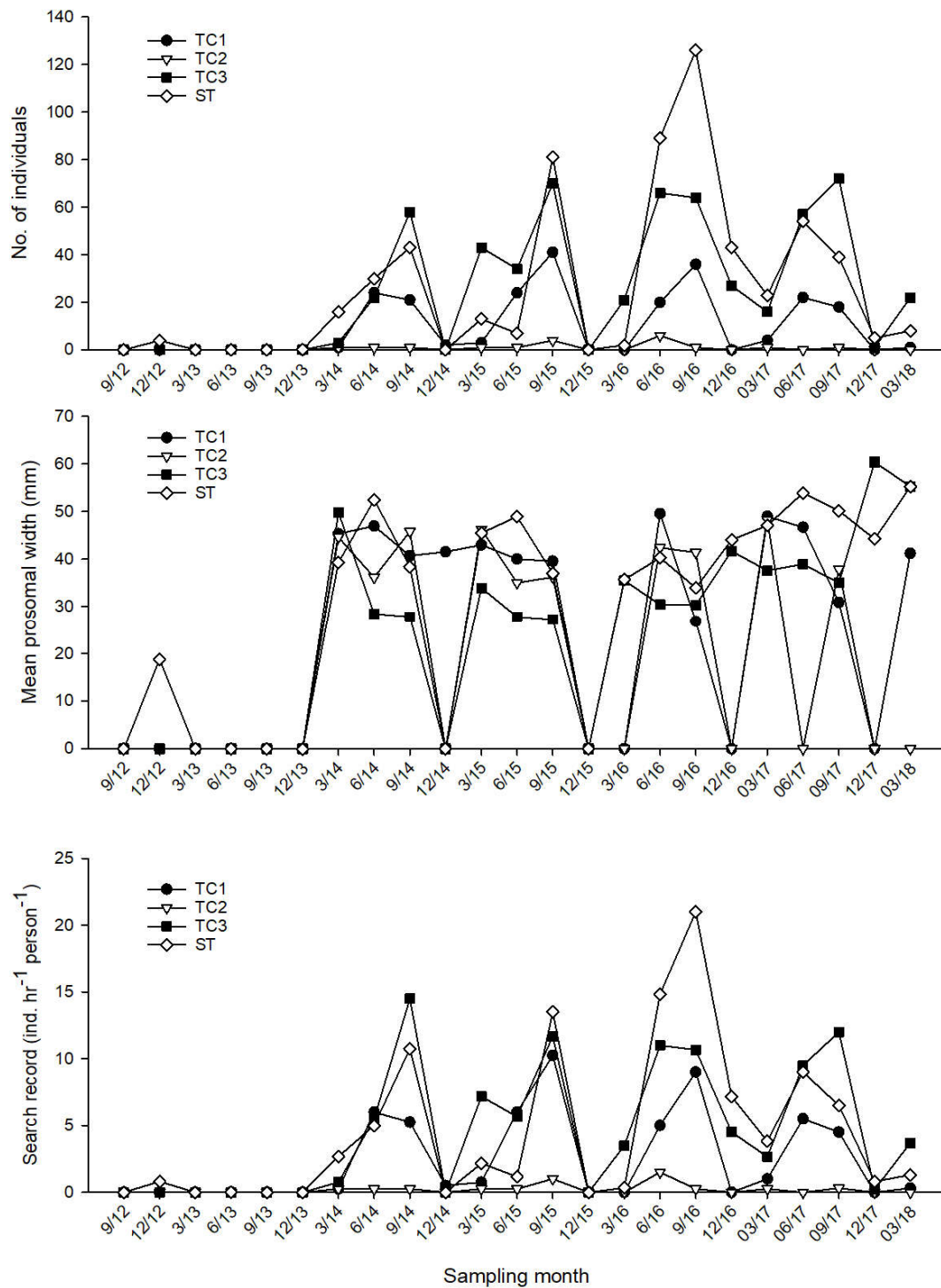
Sep. 2017



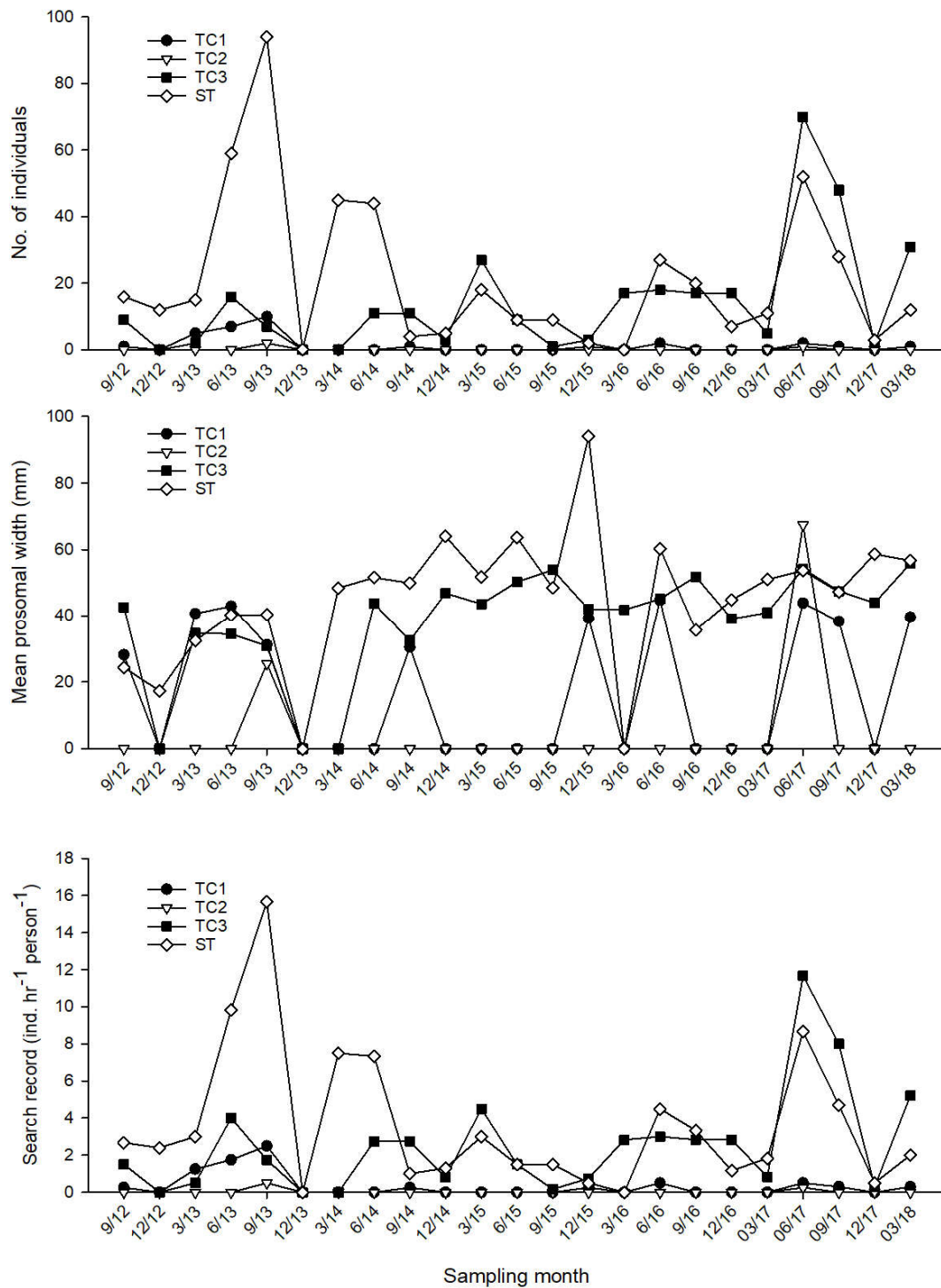
Dec. 2017



**Figure 3.3.** *Photographic records of large individuals (>100 mm) of *Carcinoscorpius rotundicauda* whose records were excluded from data analysis.*

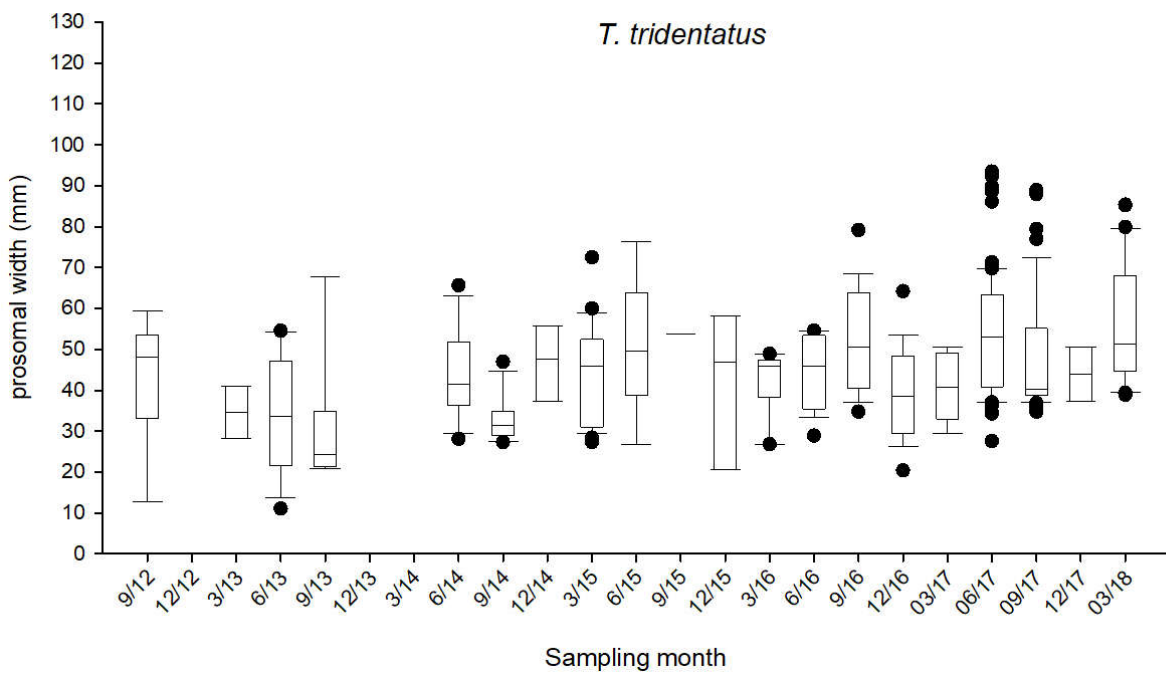
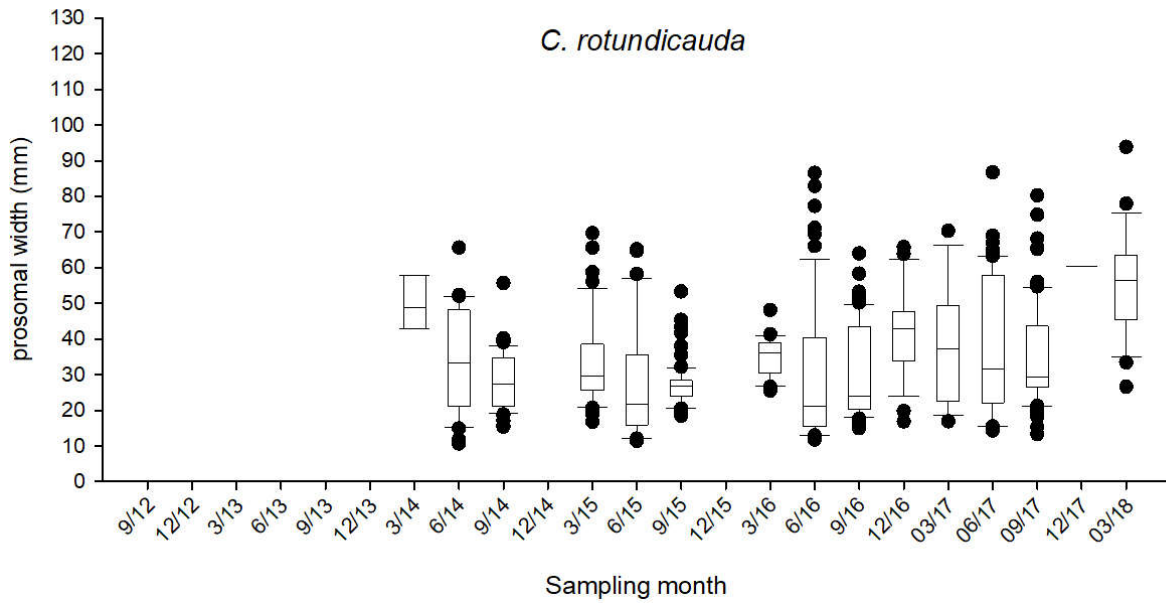


**Figure 3.4.** Changes of number of individuals, mean prosomal width and search record of horseshoe crab *Carcinoscorpius rotundicauda* in every sampling zone along the sampling months

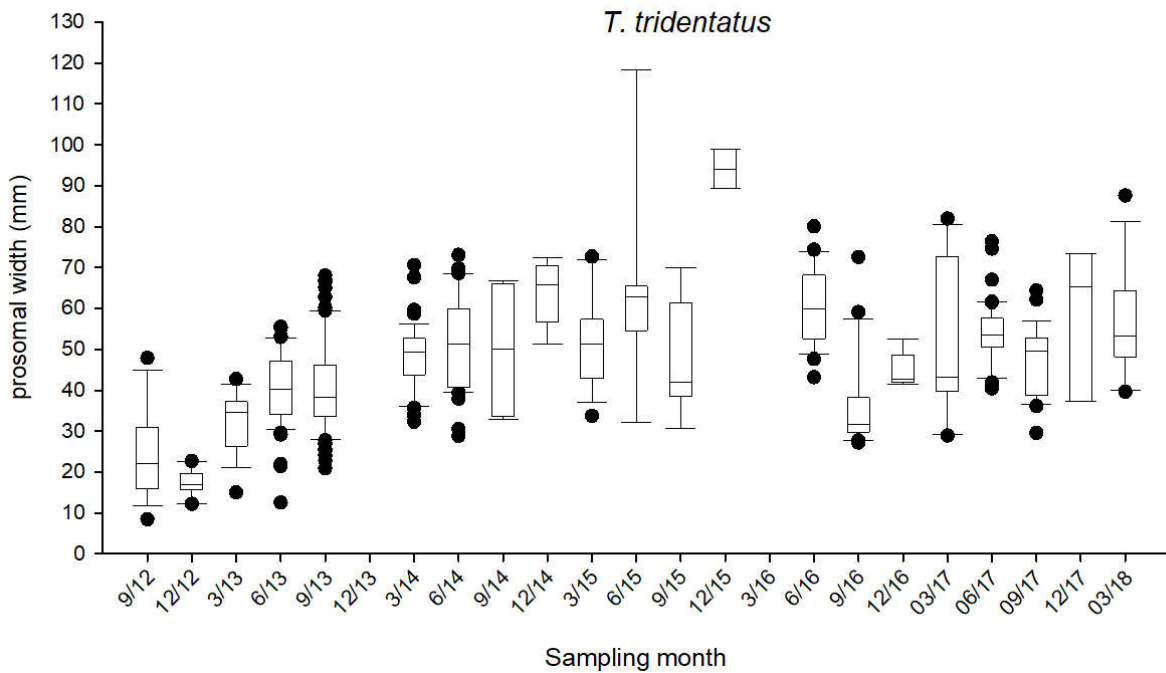
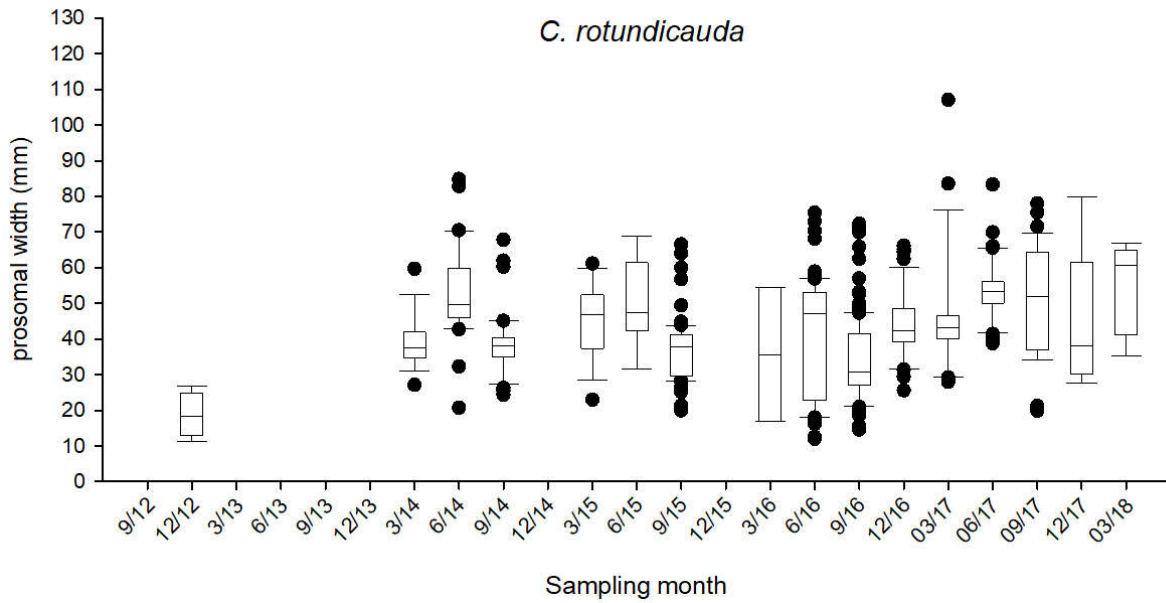


**Figure 3.5.** Changes of number of individuals, mean prosomal width and search record of horseshoe crab *Tachypleus tridentatus* in every sampling zone along the sampling months





**Figure 3.6.** 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)



**Figure 3.7.** 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.)

Re-exposed mudflat area between TC3 and ST where used to be an extensive patch of *Halophila ovalis* (photo taken in Sep. 2017)



Re-exposed mudflat area in ST where used to be co-existing patches of *Halophila ovalis* and *Zostera japonica* (photo taken in Dec. 2017)



**Figure 3.8.** Seagrass disappearance in areas between TC3 and ST. (Photo record of Mar. 2018 was lacking due to night survey)



**TC3 *Halophila ovalis***



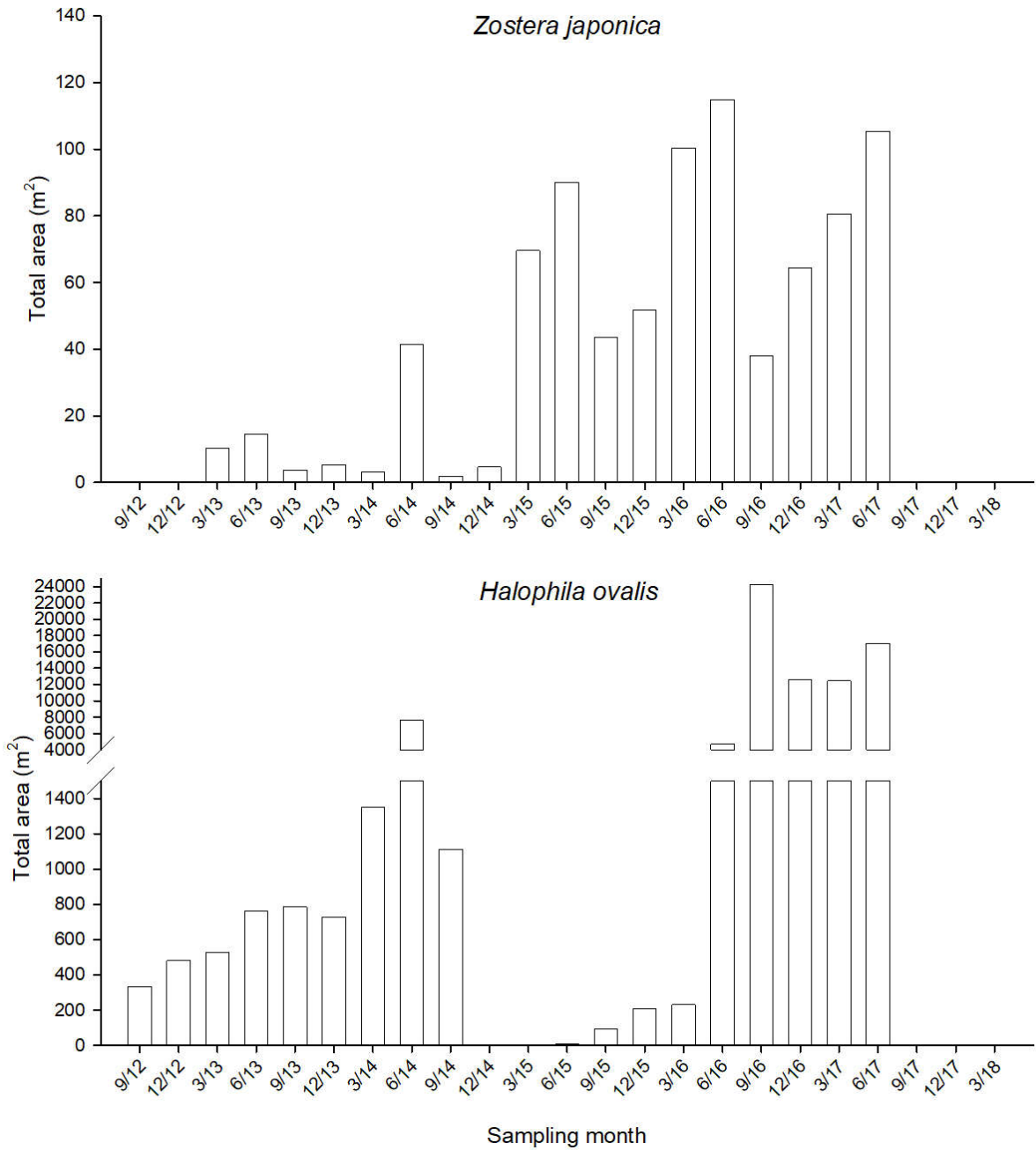
**ST *Halophila ovalis***



**ST *Zostera japonica***



**Figure 3.9.** Examples of photographic records of seagrass beds (record in Jun. 2017)



**Figure 3.10. Temporal changes of estimated total area of seagrass beds in ST**



**Jun. 2014**



**Dec. 2014 (no seagrass)**



**Sep. 2015**



**Sep. 2016**



**Jun. 2017**



**Sep. 2017- Mar. 2018 (no seagrass)**



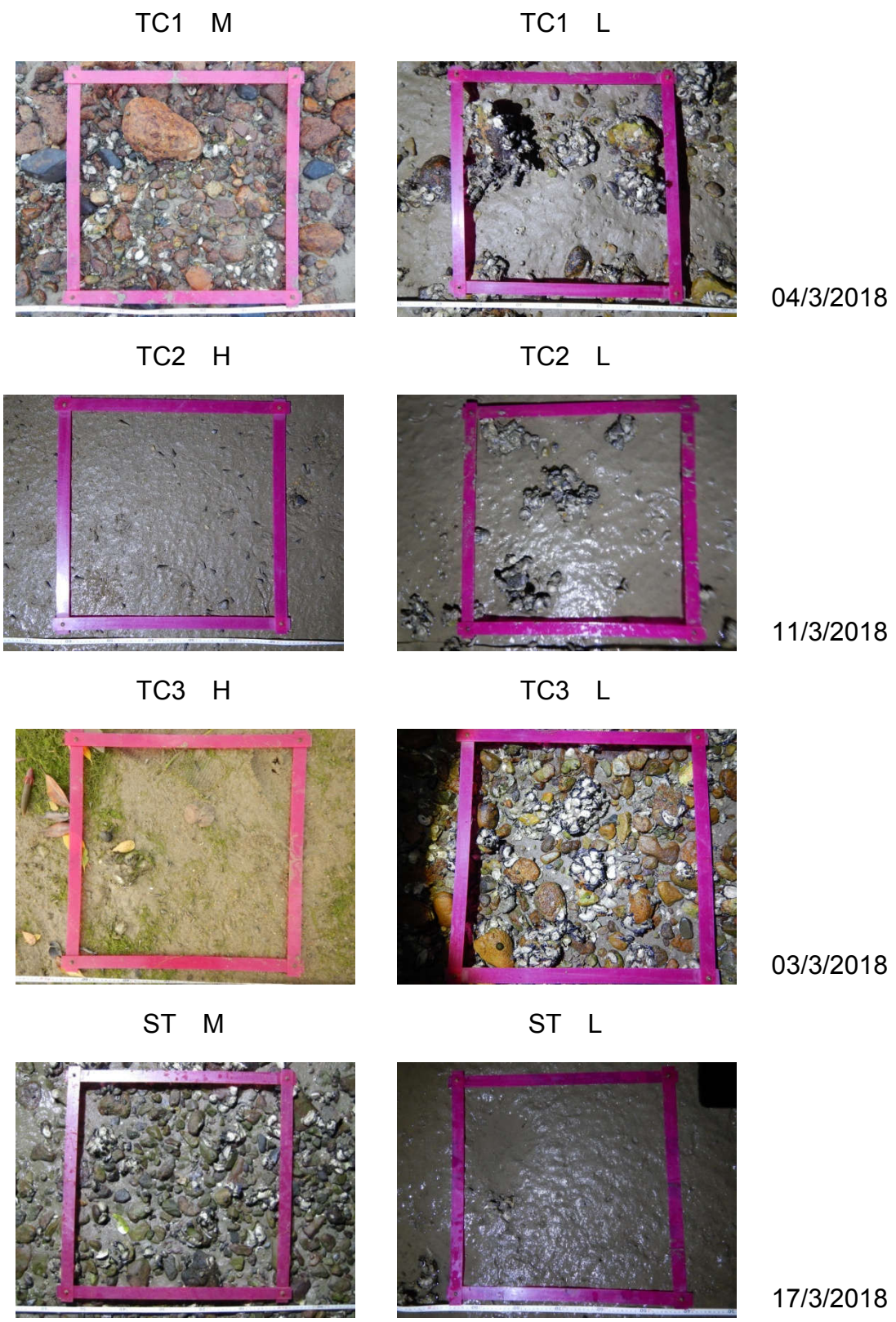
**Figure 3.11.** Comparison of pictures taken in different sampling months shows the disappearance, recolonization of seagrass beds and disappearance again (Photo record of Dec. 2017 and Mar. 2018 was lacking due to night survey)



**Table 3.2.** *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	80	10	10
	M	80	10	10
	L	40	10	50
TC2	H	20	50	30
	M	40	50	10
	L	10	10	80
TC3	H		100	
	M		90	10
	L	90		10
ST	H	100		
	M	70		30
	L		30	70

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



**Figure 3.12.** *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 3.3.** *Total abundance, density and number of taxon 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>Mar. 2018</i>				
Mollusca	13536	96.1	451	37
Arthropoda	421	3.0	14	16
Annelida	57	0.4	2	9
Sipuncula	28	0.2	1	1
Cnidaria	25	0.2	1	1
Nemertea	7	0.0	0	1
Chordata	5	0.0	0	3
<b>Total</b>	<b>14079</b>			

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 3.4.** *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	3	0.1	0	20	0.8	3	25	0.6	3	9	0.4	1
Arthropoda	86	1.6	11	144	5.9	19	55	1.4	7	136	6.2	18
Chordata							2	0.1	0	3	0.1	0
Cnidaria	4	0.1	1	2	0.1	0	1	0.0	0	18	0.8	2
Mollusca	5395	98.1	719	2255	92.6	301	3856	97.6	514	2030	92.4	271
Nemertea	2	0.0	0	1	0.0	0	3	0.1	0	1	0.0	0
Sipuncula	7	0.1	1	12	0.5	2	8	0.2	1	1	0.0	0
<b>Sub-total</b>	<b>5497</b>			<b>2434</b>			<b>3950</b>			<b>2198</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 3.5.** *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>	644	64	64
	G	<i>Cerithidea djadjariensis</i>	207	20	84
Mid	G	<i>Batillaria multiformis</i>	180	30	30
	Bi	<i>Saccostrea cucullata</i>	118	20	50
	G	<i>Cerithidea djadjariensis</i>	117	20	70
	G	<i>Monodonta labio</i>	86	14	84
Low	Bi	<i>Saccostrea cucullata</i>	212	36	36
	G	<i>Monodonta labio</i>	78	13	49
	G	<i>Cerithidea djadjariensis</i>	64	11	60
	G	<i>Batillaria multiformis</i>	56	10	70

Bi = Bivalve, G = Gastropod

**Table 3.5 (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>	141	44	44
	G	<i>Batillaria zonalis</i>	46	14	59
	Bi	<i>Saccostrea cucullata</i>	40	13	72
	G	<i>Batillaria multiformis</i>	36	11	83
Mid	Bi	<i>Saccostrea cucullata</i>	106	36	36
	G	<i>Batillaria zonalis</i>	57	19	56
	G	<i>Monodonta labio</i>	34	12	67
Low	Bi	<i>Saccostrea cucullata</i>	151	41	41
	G	<i>Batillaria zonalis</i>	64	18	59
	Ba	<i>Balanus amphitrite</i>	38	10	69

Ba = Barnacle, Bi = Bivalve, G = Gastropod



**Table 3.5 (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>	252	47	47
	G	<i>Cerithidea djadjariensis</i>	204	38	86
Mid	G	<i>Cerithidea djadjariensis</i>	180	47	47
	G	<i>Batillaria multiformis</i>	88	23	70
	G	<i>Batillaria zonalis</i>	48	13	83
	G	<i>Cerithidea cingulata</i>	39	10	93
Low	Bi	<i>Saccostrea cucullata</i>	268	40	40
	G	<i>Monodonta labio</i>	202	30	71

Bi = Bivalve, G = Gastropod

**Table 3.5 (Cont'd).** *The abundant species (relative abundance >10%) in every sampling zone*

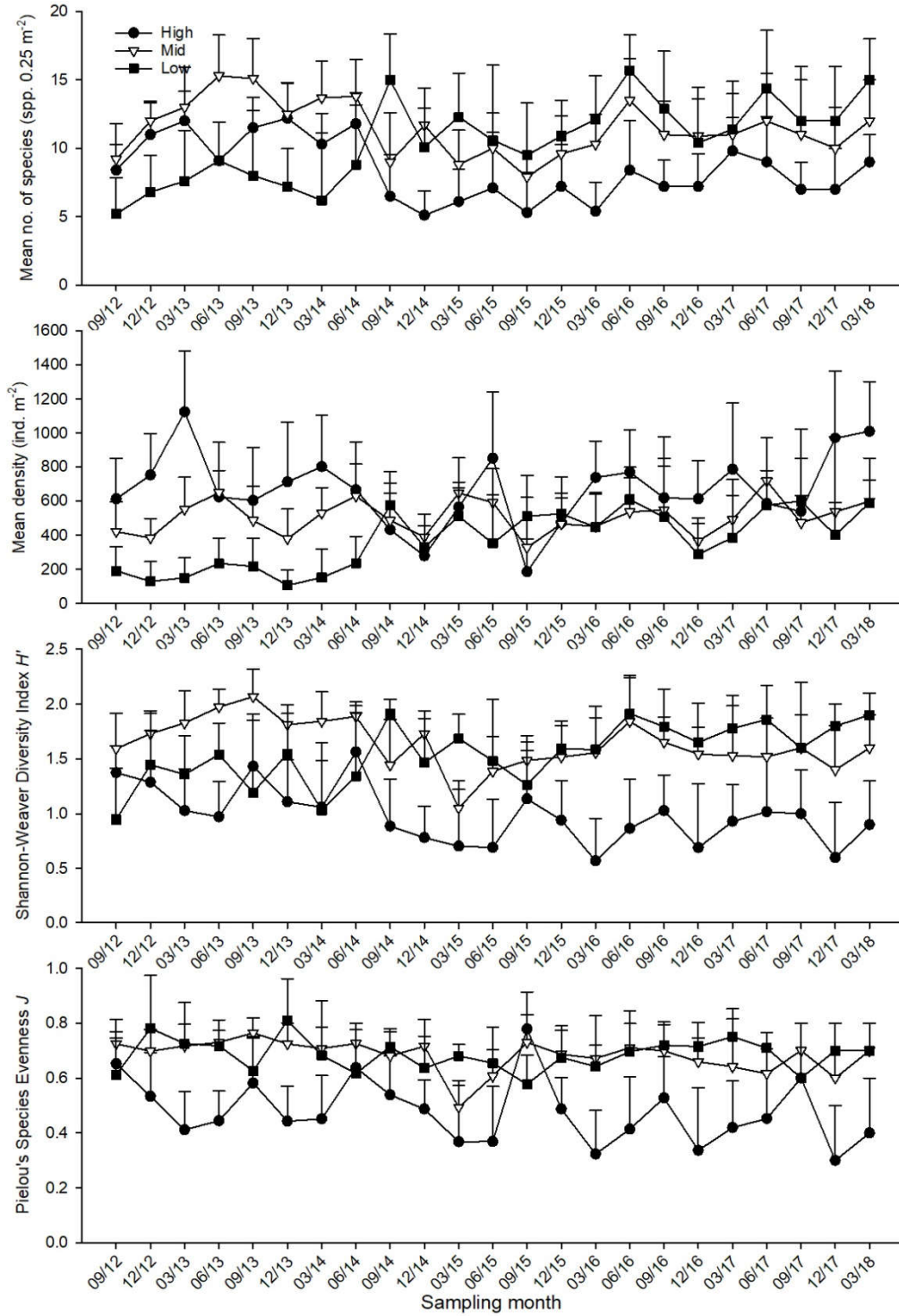
Sampling zone ST	Group	Species	Mean density (ind. m <sup>-2</sup> )	Relative abundance (%)	Cumulative relative abundance (%)
High	G	<i>Batillaria multiformis</i>	109	27	27
	G	<i>Monodonta labio</i>	84	21	48
	Bi	<i>Saccostrea cucullata</i>	60	15	63
	G	<i>Batillaria bornii</i>	45	11	75
Mid	Bi	<i>Saccostrea cucullata</i>	110	33	33
	G	<i>Monodonta labio</i>	40	12	44
	G	<i>Lunella coronata</i>	34	10	54
Low	Bi	<i>Saccostrea cucullata</i>	43	31	31
	Ba	<i>Balanus amphitrite</i>	29	21	51

Ba = Barnacle, Bi = Bivalve, G = Gastropod

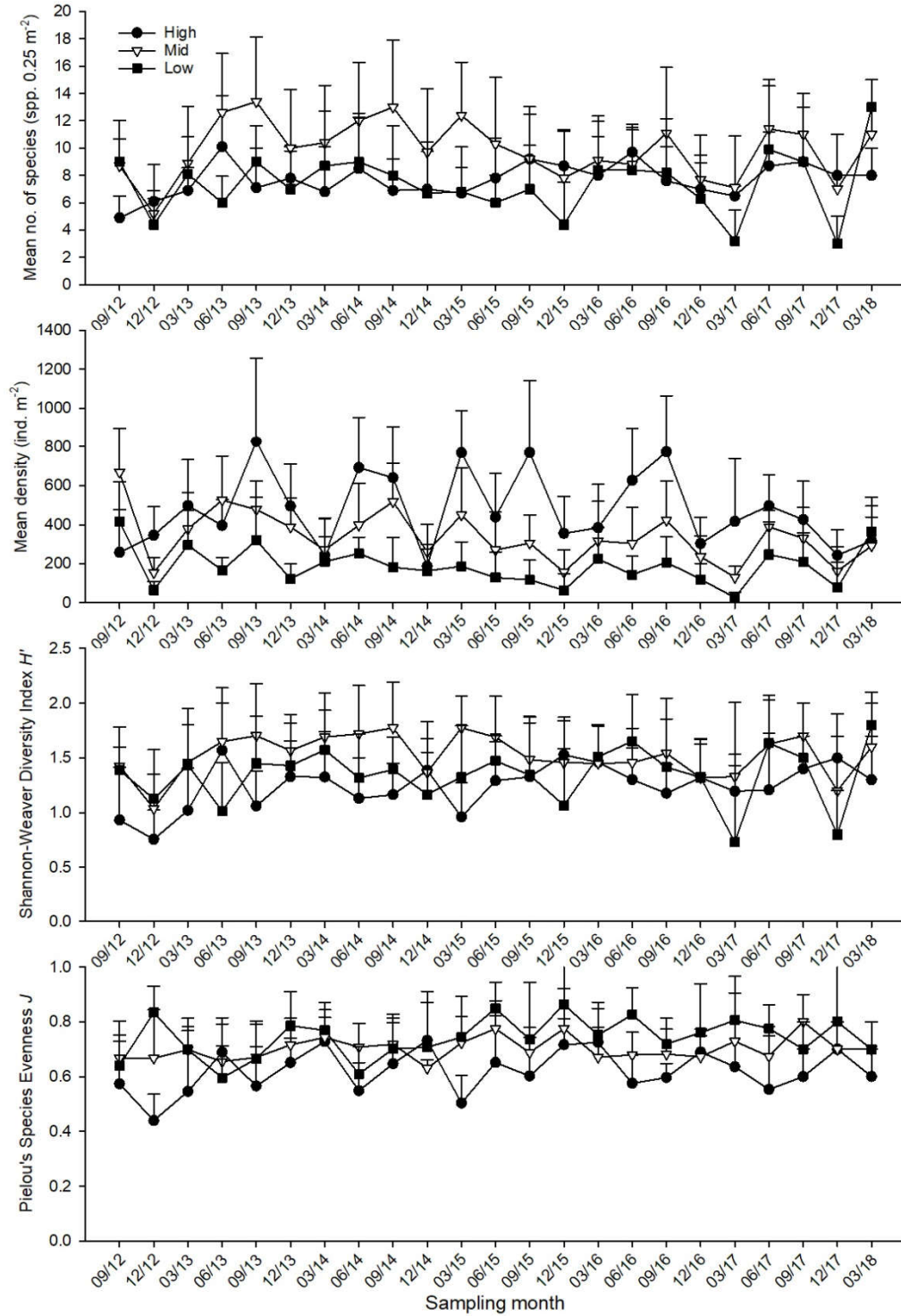
**Table 3.6.** Mean values of species number, density, Shannon-Weaver Diversity Index ( $H'$ ) and Pielou's Species Evenness ( $J$ ) at every tidal level and in every sampling zone

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	9		1012		0.9		0.4	
	M	12	12	598	733	1.6	1.5	0.7	0.6
	L	15		589		1.9		0.7	
TC2	H	8		317		1.3		0.6	
	M	11	10	292	325	1.6	1.5	0.7	0.7
	L	13		364		1.8		0.7	
TC3	H	6		531		1.1		0.6	
	M	8	9	383	527	1.3	1.3	0.7	0.6
	L	13		666		1.5		0.6	
ST	H	13		400		1.9		0.8	
	M	12	11	340	293	1.8	1.7	0.7	0.7
	L	9		140		1.4		0.8	

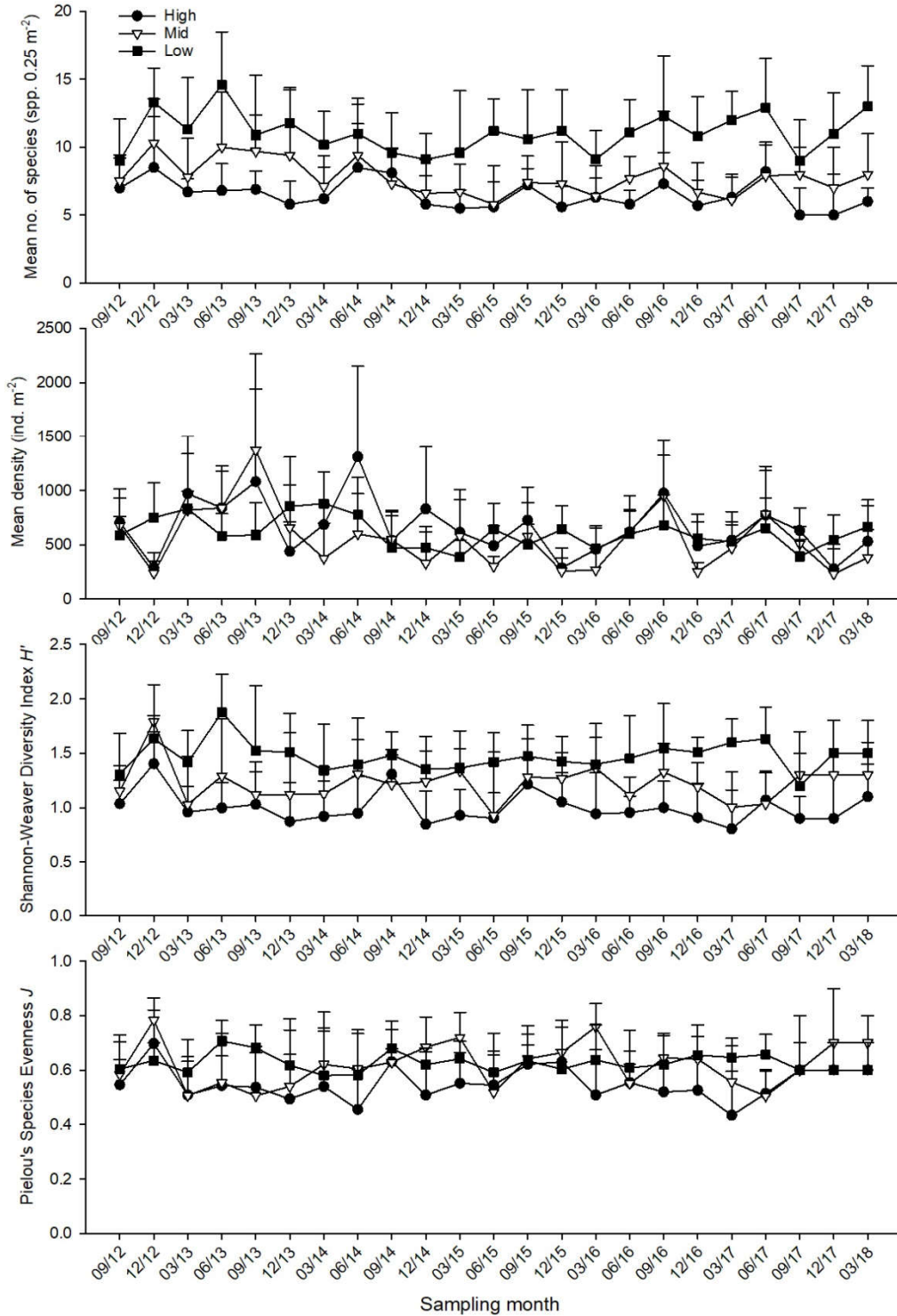




**Figure 3.13.** Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index ( $H'$ ) and Pielou's Species Evenness ( $J$ ) (mean + SD) at every tidal level in sampling zone TC1

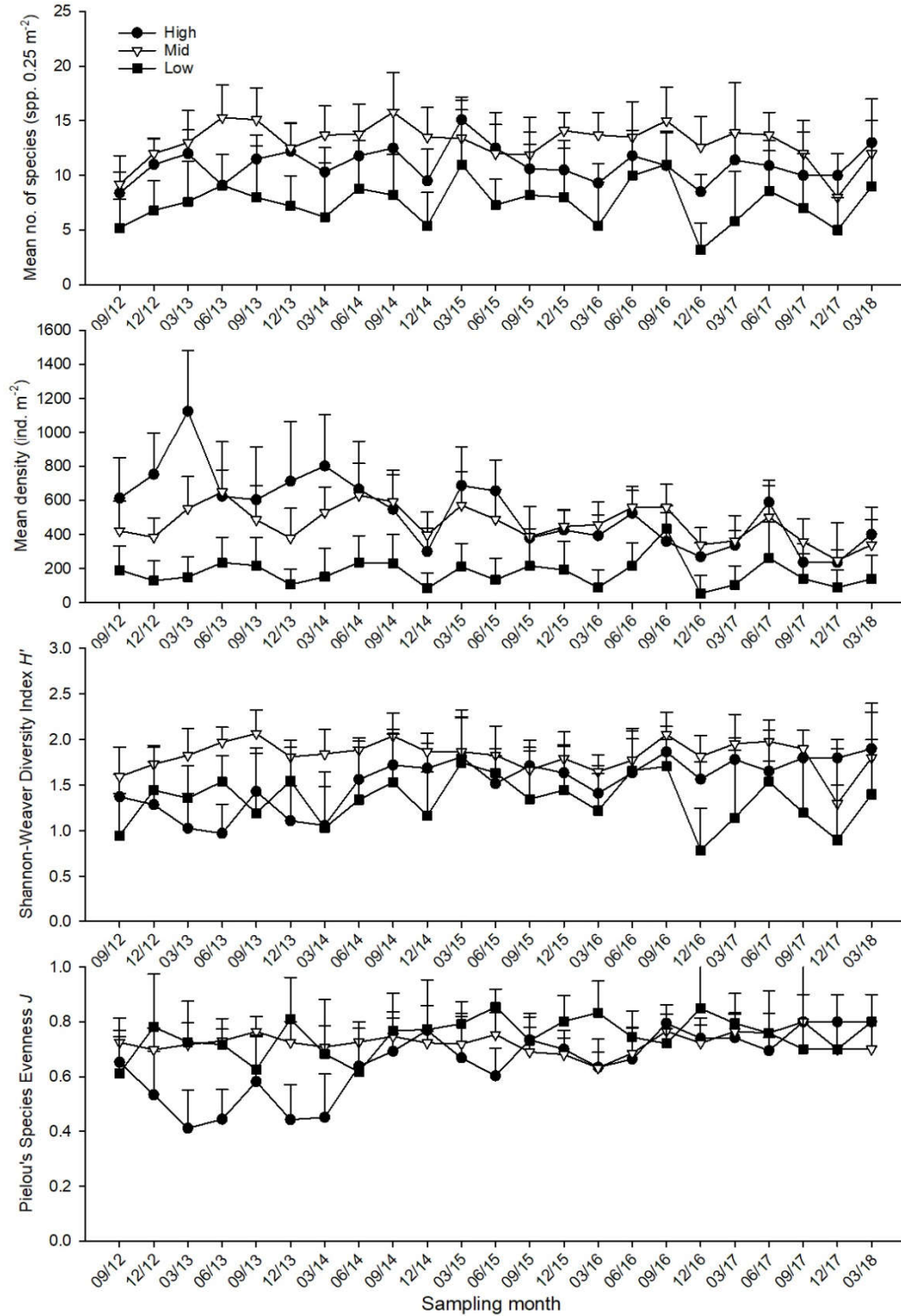


**Figure 3.14.** Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index ( $H'$ ) and Pielou's Species Evenness ( $J$ ) (mean + SD) at every tidal level in sampling zone TC2



**Figure 3.15.** 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 3.16.** 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>
1	M	22° 17.031' N	113° 55.971' E	41.21	
2	S	22° 17.003' N	113° 55.991' E		39.61
No record					
<b>No. of ind.</b>				<b>1</b>	<b>1</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)

Underlined: size of mating pair or large individual (excluded from data analysis)

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° 16.903' N	113° 55.740' E	46.45															
2	S	22° 16.936' N	113° 55.732' E	33.45															
3	S	22° 17.012' N	113° 55.658' E							47.80	54.71	68.55							
4	S	22° 16.996' N	113° 55.650' E							39.37	40.07								
5	S	22° 17.004' N	113° 55.643' E	38.35															
6	S	22° 17.022' N	113° 55.639' E	26.63	55.20					44.61	46.07	59.97							
7	S	22° 17.088' N	113° 55.640' E	64.18															
8	S	22° 17.075' N	113° 55.641' E	58.33	61.07	65.12				39.19	47.63	49.63	50.38	72.84	78.16	85.36			
9	S	22° 17.067' N	113° 55.644' E							79.88	85.21								
10	M	22° 17.047' N	113° 55.628' E	41.78	45.09	45.58	47.34	50.03		40.55	41.73	43.69	51.20	54.99	56.45	57.80			
										59.11	68.98								
11	M	22° 17.055' N	113° 55.621' E	55.27	57.53	58.28	61.84	63.46	69.24	77.94	38.90	50.33	51.28	58.24	67.96				
				93.88															
<b>No. of ind.</b>				<b>22</b>							<b>31</b>								

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

Underlined: size of mating pair or large individual (excluded from data analysis)

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 ST</u>		<u>(Search hour = 3 hrs)</u>		<i>Carcinoscorpius rotundicauda</i>				<i>Tachypleus tridentatus</i>					
1	S	22° 17.112' N	113° 55.594' E					87.61					
2	M	22° 17.170' N	113° 55.488' E	58.40	63.81	66.75							
3	S	22° 17.207' N	113° 55.491' E	35.18	37.91	65.26		54.15	63.97	64.53			
4	S	22° 17.207' N	113° 55.508' E	63.08				66.85					
5	S	22° 17.197' N	113° 55.491' E					39.63	49.76	62.21			
6	S	22° 17.384' N	113° 55.462' E	51.37				40.97	47.73	50.80	52.33		
<b>No. of ind.</b>				<b>8</b>					<b>12</b>				

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

Underlined: size of mating pair or large individual (excluded from data analysis)

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

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

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<b>Estimated area (m<sup>2</sup>)</b>	<b>Estimated coverage (%)</b>	<b>GPS coordinate</b>	<b>Remark</b>
<b>TC1 (search hour = 2 hrs)</b>			
No record			
<b>TC2 (search hour = 2 hrs)</b>			
No record			
<b>TC3 (search hour = 3 hrs)</b>			
No record			
<b>ST (search hour = 3 hrs)</b>			
No record			

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**Annex IV. 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	Goniadidae	Goniadidae spp.
Animalia	Annelida	Polychaeta	Phyllodocida	Nereididae	Nereididae spp.
Animalia	Annelida	Polychaeta	Sabellida	Oweniidae	Oweniidae spp.
Animalia	Annelida	Polychaeta	Spionida	Spionidae	Spionidae spp.
Animalia	Annelida	Polychaeta	Terebellida	Ampharetidae	Ampharetidae spp.
Animalia	Annelida	Polychaeta	Terebellida	Pectinariidae	Pectinariidae spp.
Animalia	Annelida	Polychaeta		Maldanidae	Maldanidae spp.
Animalia	Arthropoda	Malacostraca	Decapoda	Alpheidae	<i>Alpheus</i> sp.
Animalia	Arthropoda	Malacostraca	Decapoda	Diogenidae	<i>Clibanarius</i> sp.
Animalia	Arthropoda	Malacostraca	Decapoda	Diogenidae	<i>Diogenes</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 lactea</i>
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	Portunidae	<i>Charybdis affinis</i>
Animalia	Arthropoda	Malacostraca	Decapoda	Sesarmidae	<i>Nanosesarma minutum</i>
Animalia	Arthropoda	Malacostraca	Decapoda	Sesarmidae	<i>Perisesarma</i> sp.
Animalia	Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Hemigrapsus penicillatus</i>
Animalia	Arthropoda	Maxillopoda	Sessilia	Balanidae	<i>Balanus amphitrite</i>
Animalia	Arthropoda	Maxillopoda	Sessilia	Balanidae	<i>Balanus trigonus</i>
Animalia	Chordata	Actinopterygii	Perciformes	Blenniidae	<i>Omobranchus fasciolatoceps</i>
Animalia	Chordata	Actinopterygii	Perciformes	Gobiidae	Unidentified goby spp.
Animalia	Chordata	Ascidiacea			Ascidiacea spp.
Animalia	Cnidaria	Anthozoa	Actiniaria	Diadumenidae	<i>Diadumene lineata</i>
Animalia	Mollusca	Bivalvia	Anomalodesmata	Laternulidae	<i>Laternula anatina</i>
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>



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**Annex IV (Cont'd).** *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	Mollusca	Bivalvia	Ostreoida	Ostreidae	<i>Crassostrea ariakensis</i>
Animalia	Mollusca	Bivalvia	Ostreoida	Ostreidae	<i>Saccostrea cucullata</i>
Animalia	Mollusca	Bivalvia	Veneroida	Corbiculidae	<i>Geloina erosa</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>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	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	Assimineidae	<i>Assiminea lutea</i>
Animalia	Mollusca	Gastropoda	Littorinimorpha	Littorinidae	<i>Littoraria articulata</i>
Animalia	Mollusca	Gastropoda	Littorinimorpha	Rissoinidae	<i>Rissoina plicatula</i>
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		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>Chlorostoma argyrostoma</i>
Animalia	Mollusca	Gastropoda		Turbinidae	<i>Lunella coronata</i>

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

Mar 2018 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	
Ba	<i>Balanus amphitrite</i>							1														1
Bi	<i>Geloina erosa</i>	4				4																8
Bi	<i>Saccostrea cucullata</i>			7		5		8		14		11				3		3		3		54
Bi	<i>Xenostrobus atratus</i>									1												1
C	<i>Nanosesarma minutum</i>							1														1
C	<i>Uca lactea</i>													3								3
Cn	<i>Diadumene lineata</i>							1														1
G	<i>Assiminea lutea</i>											1										1
G	<i>Batillaria multiformis</i>	19		32		12		96		160		350		244		184		248		264		1609
G	<i>Batillaria zonalis</i>	5				2																7
G	<i>Cerithidea cingulata</i>	82		23		10		1		11					4		5		3			139
G	<i>Cerithidea djadjariensis</i>	98		101		121	1	34		66			1		14		51		30			517
G	<i>Cerithidea rhizophorarum</i>			1						5					2		2					10
G	<i>Clithon faba</i>	7		1				1		2				5		26		18		3		63
G	<i>Clithon oualaniensis</i>	3		2		1		1				1				7						15
G	<i>Littoraria articulata</i>											1		1								2
G	<i>Lunella coronata</i>	1								1												2
G	<i>Monodonta labio</i>	11		7		3		21		10		7		4		8		4		5		80

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

Mar 2018 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			
G	<i>Nerita polita</i>	1																				1
G	<i>Rissoina plicatula</i>									3		1		1		8		1				14
P	Nereididae spp.																		1			1
Sp	<i>Sipunculus nudus</i>							1														1
																					<b>Total</b>	<b>2531</b>



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

Mar 2018 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>													2								2
Bi	<i>Barbatia virescens</i>	1												1		1		1				4
Bi	<i>Hiatella arctica</i>					1										3		2				6
Bi	<i>Saccostrea cucullata</i>	9		29		67				43		53		22		28		21		23		295
Bi	<i>Xenostrobus atratus</i>									8		3				1				4		16
C	<i>Hemigrapsus penicillatus</i>															3						3
C	<i>Metopograpsus latifrons</i>					1																1
C	<i>Nanosesarma minutum</i>					1		1		4												6
Cn	<i>Diadumene lineata</i>																	2				2
G	<i>Batillaria bornii</i>	3																				3
G	<i>Batillaria multiformis</i>	9		4		26		29		94		67		41		54		22		105		451
G	<i>Batillaria zonalis</i>	1		13																		14
G	<i>Cellana grata</i>					1								3		1		4				9
G	<i>Cellana toreuma</i>	3				3				1				2		4				1		14
G	<i>Cerithidea cingulata</i>	23	2	13		2		14		1		5		6		1		1				68
G	<i>Cerithidea djadjariensis</i>	40		38		2		94		2		32		50		27		8				293
G	<i>Cerithidea rhizophorarum</i>					1										4						5
G	<i>Clithon faba</i>													1		1		4				6
G	<i>Clithon oualaniensis</i>	4		1				2				1		1				1		1		11

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

Mar 2018 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>Lepidozona</i> sp.													1		1		1				3
G	<i>Littoraria articulata</i>					2				7										3		12
G	<i>Lunella coronata</i>	1		3		4				2		1				4		3		2		20
G	<i>Monodonta labio</i>	7		12		35		1		28		12		22		31		36		30		214
G	<i>Nerita polita</i>											1				1						2
G	<i>Nipponacmea concinna</i>			1		3				1				3				2				10
G	<i>Patelloida pygmaea</i>			1		2				3		2		1		1		3		8		21
Ne	Nemertea spp.	1																				1
P	Maldanidae spp.								2													2
																					<b>Total</b>	<b>1494</b>

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

Mar 2018 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		9						20				10				4		44
Bi	<i>Barbatia virescens</i>	2						1				1				6		12		4		26
Bi	<i>Hiatella arctica</i>	2						1		3		4		9		5		3		4		31
Bi	<i>Ruditapes philippinarum</i>	1																				1
Bi	<i>Saccostrea cucullata</i>	58		11		16		94		44		65		73		57		72		40		530
Bi	<i>Xenostrobus atratus</i>											7		14		7		3		3		34
C	<i>Hemigrapsus penicillatus</i>	2				1						2										5
C	<i>Macrophthalmus erato</i>					1																1
C	<i>Metopograpsus latifrons</i>													1								1
C	<i>Nanosesarma minutum</i>	5		1		1		2		4		2		1						2		18
Cn	<i>Diadumene lineata</i>					1																1
G	<i>Batillaria bornii</i>	5						4		5		3		3		2		2				24
G	<i>Batillaria multiformis</i>	32		10	2	7		7		20		6		34		22						140
G	<i>Batillaria zonalis</i>			16		16		17		5		3										57
G	<i>Cellana grata</i>									1				2		1						4
G	<i>Cellana toreuma</i>	2		1				1		3		1						1		3		12
G	<i>Cerithidea cingulata</i>	4						7		4		3		2		2		1		1		24
G	<i>Cerithidea djadjariensis</i>	8						40		57		6		25		22				3		161
G	<i>Cerithidea rhizophorarum</i>							3		1												4

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

Mar 2018 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				2		3		2		4		1		1		14
G	<i>Clithon oualaniensis</i>											4		1		2						7
G	<i>Euchelus scaber</i>																	2				2
G	<i>Lepidozona</i> sp.											2		1		1						4
G	<i>Lunella coronata</i>	10		3		3		11		4		11		7		13		8		5		75
G	<i>Monodonta labio</i>	11						27		22		22		43		32		27		12		196
G	<i>Nassarius festivus</i>					2																2
G	<i>Nerita polita</i>									1				1				2				4
G	<i>Nipponacmea concinna</i>	1		1						2		1		9		2		2		2		20
G	<i>Patelloida pygmaea</i>									1		2		11		4		3		2		23
Ne	Nemertea spp.																			1		1
Sp	<i>Sipunculus nudus</i>	1				3		2														6
																					<b>Total</b>	<b>1472</b>

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

Mar 2018 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>			1												3		4		1		9
Bi	<i>Hiatella arctica</i>																	1				1
Bi	<i>Saccostrea cucullata</i>					22		4		23		1		1		6		31		13		101
Bi	<i>Xenostrobus atratus</i>	1														2		12				15
C	<i>Hemigrapsus penicillatus</i>			1																		1
C	<i>Uca sp.</i>	2																				2
G	<i>Batillaria bornii</i>																	1				1
G	<i>Batillaria multiformis</i>	13			1	5		4		16		27		3		3		17		2		91
G	<i>Batillaria zonalis</i>					4		4		5		11		13		22		21	2	31	1	114
G	<i>Cerithidea cingulata</i>			7	1	5		9	2	21	3			1		1		6	2	2	2	62
G	<i>Cerithidea djadjariensis</i>	1		66	6	61		67	2	77	18	1		1		14		9	5	21	3	352
G	<i>Cerithidea rhizophorarum</i>			1	1	1		3				1		1								8
G	<i>Lepidozona sp.</i>																			1		1
G	<i>Lunella coronata</i>					2				1						1		2		1		7
G	<i>Monodonta labio</i>	16				1				1		1						2				21
G	<i>Nassarius festivus</i>									1												1
G	<i>Nassarius sp.</i>							1								1						2
Hc	<i>Pagurus dubius</i>									1												1
P	Ampharetidae spp.																			1		1

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

Mar 2018 Sampling zone TC 2 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	Maldanidae spp.																					1	1
																					<b>Total</b>	<b>792</b>	

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

Mar 2018 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>			1						2		3				4		5		6		21
Bi	<i>Barbatia virescens</i>					1				3								1		2		7
Bi	<i>Hiatella arctica</i>									3												3
Bi	<i>Saccostrea cucullata</i>	8		12		23				74		31		17		16		37		46		264
Bi	<i>Xenostrobus atratus</i>			1		1				5				2				1		2		12
C	<i>Hemigrapsus penicillatus</i>					2				1		1										4
C	<i>Nanosesarma minutum</i>									3		2										5
C	<i>Uca</i> sp.																1					1
C	<i>Uca vocans</i>																		1			1
G	<i>Batillaria bornii</i>					1				1		1										3
G	<i>Batillaria multiformis</i>	15				7						3		1		1		9		3	1	40
G	<i>Batillaria zonalis</i>		2			12				2		25		21		26	1	16	1	34	2	142
G	<i>Cellana grata</i>									1												1
G	<i>Cellana toreuma</i>					1																1
G	<i>Cerithidea cingulata</i>	2	3			1		1	1			1		1		2	1		1	6	2	22
G	<i>Cerithidea djadjariensis</i>	3	2			5		23				1		3		2		5	1	14		59
G	<i>Cerithidea rhizophorarum</i>											1										1
G	<i>Clithon oualaniensis</i>	1																				1
G	<i>Dentalium sinuosum</i>		1																			1

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

Mar 2018 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>Lunella coronata</i>	1		3		2				3		3		1		2		3		4		22
G	<i>Monodonta labio</i>	9		14		20				25		3		2		4		4		5		86
G	<i>Nassarius festivus</i>		1															1				2
G	<i>Nerita polita</i>									1		1										2
G	<i>Patelloida pygmaea</i>					3				10						1		3		1		18
Hc	<i>Clibanarius</i> sp.							1														1
OI	Marine oligochaete spp.			3																		3
P	Ampharetidae spp.														1							1
P	Maldanidae spp.															1		1		1		3
P	Nereididae spp.							3														3
Sp	<i>Sipunculus nudus</i>									1												1
																					<b>Total</b>	<b>731</b>

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

Mar 2018 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>			16		4		10		6		22				21		10		5		94
Bi	<i>Anomalocardia squamosa</i>	1													1							2
Bi	<i>Barbatia virescens</i>	1						2		1		3								3		10
Bi	<i>Hiatella arctica</i>					7		2				6		1					3		3	22
Bi	<i>Saccostrea cucullata</i>	84		21		49		27		4		33		6		32		79		43		378
Bi	<i>Xenostrobus atratus</i>					2						3		1		2		12		2		22
C	<i>Hemigrapsus penicillatus</i>													1								1
C	<i>Nanosesarma minutum</i>																			1	1	2
Cn	<i>Diadumene lineata</i>			1						1												2
G	<i>Batillaria bornii</i>							2								3		2		3		10
G	<i>Batillaria multiformis</i>	1		2		4										2	1	3		1		14
G	<i>Batillaria zonalis</i>	9		3		2		3		2		25		21		22	1	34		38	1	161
G	<i>Cellana toreuma</i>			1						4												5
G	<i>Cerithidea cingulata</i>	4		4								4	1	1		1						15
G	<i>Cerithidea djadjariensis</i>	3		3				3				19		5	1	10	4	1		1		50
G	<i>Cerithidea rhizophorarum</i>											1										1
G	<i>Euchelus scaber</i>																		1			1
G	<i>Lepidozona</i> sp.			1		2				1						1						5

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

Mar 2018 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>Lunella coronata</i>	5		2		7		7		3		2				3		6		4		39
G	<i>Monodonta labio</i>	2		1		2		1		2						2		3		2		15
G	<i>Nassarius festivus</i>	2		1														1				4
G	<i>Nassarius</i> sp.						1															1
G	<i>Nerita polita</i>							2								2				2		6
G	<i>Nipponacmea concinna</i>							1								4						5
G	<i>Patelloida pygmaea</i>			1		2		7				1		2		7		4		1		25
Hc	<i>Pagurus dubius</i>	1																				1
Ne	Nemertea spp.					1																1
P	Maldanidae spp.						2						4					1				7
P	Onuphidae spp.						1															1
Sp	<i>Sipunculus nudus</i>					1										3		7				11
<b>Total</b>																					<b>911</b>	



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

Mar 2018 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	
Ba	<i>Balanus amphitrite</i>							3														3
Bi	<i>Circe</i> sp.		1									1		10							1	13
Bi	<i>Saccostrea cucullata</i>									1								4				5
Bi	<i>Tellina</i> sp.											1										1
C	<i>Nanosesarma minutum</i>																	1				1
G	<i>Batillaria multiformis</i>	186		83				169	4	83		6	1	5		53	3	36				629
G	<i>Batillaria zonalis</i>	6				1		4						1								12
G	<i>Cerithidea cingulata</i>	14	4	9	1		2	20	3	29	1	7	9	4		1					3	107
G	<i>Cerithidea djadjariensis</i>	66	13	72		35	6	58	4	67	1	40	3	30	3	46	4	51	4	5	2	510
G	<i>Cerithidea rhizophorarum</i>	4		4				2		3				6		3				1		23
G	<i>Clithon oualaniensis</i>															1					1	2
G	<i>Lunella coronata</i>			2																		2
G	<i>Monodonta labio</i>			1																		1
G	<i>Nassarius festivus</i>					2				2											1	5
G	<i>Nassarius hepaticus</i>																	1				1
P	Ampharetidae spp.								1													1
P	Maldanidae spp.		4								1		1								2	8
P	Nereididae spp.												2									2

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

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Mar 2018		Sampling zone TC 3		High tidal level (2.0 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		
Sp	<i>Sipunculus nudus</i>									1												1	
																					<b>Total</b>	<b>1327</b>	

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

Mar 2018 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>Circe</i> sp.																1					1	
Bi	<i>Laternula anatina</i>													1								1	
Bi	<i>Saccostrea cucullata</i>	7		1																2		10	
C	<i>Nanosesarma minutum</i>	1		1																		2	
C	<i>Uca lactea</i>	2		1		1		1														5	
C	<i>Uca</i> sp.									1											3	4	
G	<i>Batillaria bornii</i>	1																				1	
G	<i>Batillaria multiformis</i>	18	1	25		17		2		6				1		1		16		134		221	
G	<i>Batillaria zonalis</i>	23		5		17	1	24		7		16		16		7		4				120	
G	<i>Cerithidea cingulata</i>		8			10	4	13		8		3		3	3	4	3	3	3	3	32	1	98
G	<i>Cerithidea djadjariensis</i>	43	4	16		34		51		52	3	44	4	36	2	26	2	27	9	96	2	451	
G	<i>Cerithidea rhizophorarum</i>	2		3												1						6	
G	<i>Clithon oualaniensis</i>															1		1				2	
G	<i>Lunella coronata</i>			3																		3	
G	<i>Monodonta labio</i>			3																4		7	
G	<i>Nassarius festivus</i>	1										1				1						3	
G	<i>Nassarius hepaticus</i>									1				2								3	
G	<i>Nerita polita</i>			1																		1	

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

Mar 2018 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			
Hc	<i>Diogenes</i> sp.											1										1
Hc	<i>Pagurus dubius</i>			2																		2
Ne	Nemertea spp.					1																1
P	Ampharetidae spp.		1														1					2
P	Maldanidae spp.									3		2		1		4						10
P	Oweniidae spp.							1								1						2
																					<b>Total</b>	<b>958</b>

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

Mar 2018 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>	2										1										3
Bi	<i>Barbatia virescens</i>			29		11				48				9		1		2		8		108
Bi	<i>Crassostrea ariakensis</i>											41										41
Bi	<i>Hiatella arctica</i>			1		1																2
Bi	<i>Saccostrea cucullata</i>	79		82		55		39		97				71		88		93		65		669
Bi	<i>Xenostrobus atratus</i>	1		1		5				1				1								9
C	<i>Hemigrapsus penicillatus</i>			1		1		1		2		1						1		1		8
C	<i>Nanosesarma minutum</i>	3		1				1						4		5		5		5		24
C	<i>Perisesarma</i> sp.							1														1
Cn	<i>Diadumene lineata</i>			1																		1
F	<i>Omobranchus fasciolatoceps</i>	1																		1		2
G	<i>Batillaria bornii</i>	4		2						1										1		8
G	<i>Batillaria multiformis</i>	1		8		16		33						21		7		6		3		95
G	<i>Cellana grata</i>													1		1		4		4		10
G	<i>Cellana toreuma</i>	3		5		1		1		1								1		1		13
G	<i>Cerithidea cingulata</i>					1								4		1						6
G	<i>Cerithidea djadjariensis</i>					1								2								3
G	<i>Euchelus scaber</i>			1																		1
G	<i>Lepidozona</i> sp.	1								1												2



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

Mar 2018 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>Littoraria articulata</i>					2				1				5		3		1				12
G	<i>Lunella coronata</i>	9		11		6		2		12		4		1		5		7		12		69
G	<i>Monodonta labio</i>	44		36		42		57		25		1		47		83		102		69		506
G	<i>Nerita polita</i>							3		2				1		6		1		1		14
G	<i>Nipponacmea concinna</i>	4		2		2		2		4												14
G	<i>Patelloida pygmaea</i>	3		5		3		2				1		6		1		8		6		35
Ne	Nemertea spp.	1																		1		2
Sp	<i>Sipunculus nudus</i>	4				1				2												7
																					<b>Total</b>	<b>1665</b>

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

Mar 2018 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								4		1								6
Bi	<i>Barbatia virescens</i>																			1		1
Bi	<i>Hiatella arctica</i>									3		1										4
Bi	<i>Saccostrea cucullata</i>	3		2		11		7		21		22		23		15		18		29		151
Bi	<i>Xenostrobus atratus</i>											2								1		3
C	<i>Macrophthalmus</i> sp.							2														2
C	<i>Nanosesarma minutum</i>			1				2													2	5
Cn	<i>Diadumene lineata</i>					1						1		3		1		1		5		12
G	<i>Batillaria bornii</i>			1				2		8		28		33		23		8		9		112
G	<i>Batillaria multiformis</i>	11		7		37		65		11		17		20		37		46		21		272
G	<i>Cellana grata</i>									3		3		4		3				2		15
G	<i>Cellana toreuma</i>					1		1		5		1		1		2		6		9		26
G	<i>Cerithidea cingulata</i>			1						3		5		1		6		3		1		20
G	<i>Cerithidea djadjariensis</i>			2						2		2		4		11		6				27
G	<i>Cerithidea rhizophorarum</i>									1								3				4
G	<i>Clithon faba</i>					2																2
G	<i>Clithon oualaniensis</i>			1		2		3		1		5		1		1						14
G	<i>Euchelus scaber</i>									4				1								5
G	<i>Lepidozona</i> sp.									1		1										2

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

Mar 2018 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>Littoraria articulata</i>			2																1		3
G	<i>Lunella coronata</i>	2		4		3		5		2		3		8		9		7		5		48
G	<i>Monodonta labio</i>	15		8		19		7		34		13		20		31		33		31		211
G	<i>Nerita polita</i>			1		1		2		2		2				1		1		1		11
G	<i>Nipponacmea concinna</i>							1		4		3		4								12
G	<i>Patelloida pygmaea</i>	1		1				1		6		7		5		1		5		1		28
G	<i>Terebralia sulcata</i>	1																				1
Hc	<i>Pagurus dubius</i>									2												2
																					<b>Total</b>	<b>999</b>

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

Mar 2018 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						6		1				2								10
Ba	<i>Balanus trigonus</i>									8												8
Bi	<i>Barbatia virescens</i>	1						1						6		1		4				13
Bi	<i>Circe</i> sp.				5												5					10
Bi	<i>Hiatella arctica</i>	2										5		5		1		1				14
Bi	<i>Saccostrea cucullata</i>	31						12		23		25		48		63		24		50		276
Bi	<i>Xenostrobus atratus</i>							1		1		3				1						6
C	<i>Hemigrapsus penicillatus</i>							1						1		1						3
C	<i>Macrophthalmus erato</i>			1																		1
C	<i>Macrophthalmus</i> sp.																	1				1
C	<i>Nanosesarma minutum</i>							1						1		1		3		1		7
Cn	<i>Diadumene lineata</i>	1										1		2								4
G	<i>Batillaria bornii</i>	10								3		14		1		3		13		18		62
G	<i>Batillaria multiformis</i>			8		1		1		2				1				4		14		31
G	<i>Batillaria zonalis</i>	2		27		26		4														59
G	<i>Cellana grata</i>									1		2		1		4		2				10
G	<i>Cellana toreuma</i>	6								1		9				2				2		20
G	<i>Cerithidea cingulata</i>							1		3						2						6
G	<i>Cerithidea djadjariensis</i>	14						1		17		16		6		6		2		2		64

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

Mar 2018 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																				3
G	<i>Euchelus scaber</i>																		3			3
G	<i>Lepidozona</i> sp.	3										1										4
G	<i>Lunella coronata</i>	16					3		12		13		11		10		11		10			86
G	<i>Monodonta labio</i>	6						1	6		20		23		21		10		13			100
G	<i>Nassarius festivus</i>	1		2						1							1					5
G	<i>Nerita polita</i>						1															1
G	<i>Nipponacmea concinna</i>	5								1			1									7
G	<i>Patelloida pygmaea</i>									5		12		5			2		4			28
Hc	<i>Pagurus dubius</i>	1						1														2
P	Maldanidae spp.				1																	1
P	Nereididae spp.				1																	1
P	Pectinariidae spp.															1						1
P	Spionidae spp.								1													1
S	<i>Alpheus</i> sp.																	1				1
																					<b>Total</b>	<b>849</b>



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

Mar 2018 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	
As	<i>Ascidiacea</i> spp.												2									2
Ba	<i>Balanus amphitrite</i>	11											51		9						2	73
Ba	<i>Balanus trigonus</i>									3												3
Bi	<i>Barbatia virescens</i>					3							2						3			8
Bi	<i>Circe</i> sp.				1					1				3				1		2		8
Bi	<i>Crassostrea ariakensis</i>					1																1
Bi	<i>Hiatella arctica</i>					1				1			2									4
Bi	<i>Ruditapes philippinarum</i>							1														1
Bi	<i>Saccostrea cucullata</i>	44		1		26				3		18		6					8		1	107
Bi	<i>Xenostrobus atratus</i>	1																				1
C	<i>Charybdis affinis</i>					1																1
C	<i>Hemigrapsus penicillatus</i>												1									1
C	<i>Macrophthalmus erato</i>	1			1								1									3
C	<i>Nanosesarma minutum</i>	1				2																3
Cn	<i>Diadumene lineata</i>	1																		1		2
F	Unidentified goby spp.																			1		1
G	<i>Batillaria bornii</i>	1																				1
G	<i>Batillaria multiformis</i>	2			1		8			2		1		1								15
G	<i>Batillaria zonalis</i>	1		7	1	4		1		8		1		2							2	27

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

Mar 2018 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	
G	<i>Cellana toreuma</i>													1								1
G	<i>Cerithidea cingulata</i>	1				2	4			1										5		13
G	<i>Cerithidea djadjariensis</i>					3				6								1		1		11
G	<i>Chlorostoma argyrostoma</i>					1																1
G	<i>Euchelus scaber</i>					4						1										5
G	<i>Lepidozona</i> sp.	2																				2
G	<i>Lunella coronata</i>	3				11						2		4				6		1		27
G	<i>Nassarius festivus</i>					2																2
G	<i>Nipponacmea concinna</i>	2																				2
G	<i>Patelloida pygmaea</i>	8				5																13
Hc	<i>Pagurus dubius</i>	2				1																3
Ne	Nemertea spp.							1														1
P	Goniadidae spp.																					1
P	Maldanidae spp.									1												2
P	Oweniidae spp.																					1
S	<i>Alpheus</i> sp.					1																1
Sp	<i>Sipunculus nudus</i>					1																1
																					<b>Total</b>	<b>350</b>

Key for faunal groups (Gp):

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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