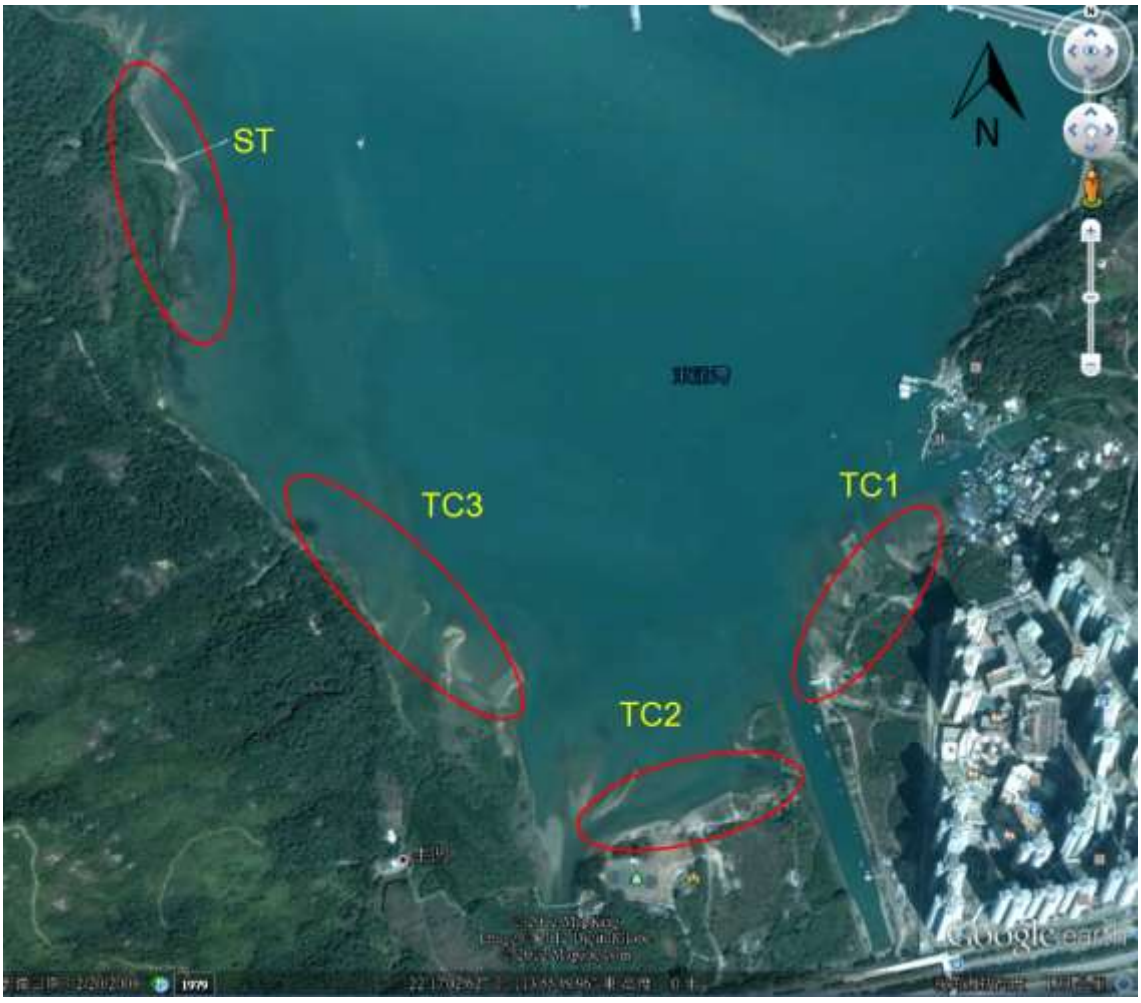


Figure 2.1. *Locations of sampling zones. The study site was divided into three sampling zones (TC1, TC2, TC3) in Tung Chung Bay and one zone in San Tau (ST) (map generated from Google Map).*

TC1

TC2

TC3

ST

Figure 2.2 *Photographic record of the environment in every sampling zone. (December 2024)*

TC1

Plastic waste

Trash gill net

TC3

Boat wreckage

Trash gill net

ST

Trash gill net and hand trolley

A tangled horseshoe crab on a trash net (record in June 2017)

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

ST

Trash gill net (recorded in September 2024)

Trash nets deposited at ST for several years, where horseshoe crab occasionally tangled on them (record in September 2024)

TC3

Trash gill net (recorded in December 2024)

Trash nets deposited at Tc3, where a horseshoe crab was tangled on it (record on December 2024)

Figure 2.3 (Continued) *Examples of photographic record of the big trash found on the mudflat.*

ST *Carcinoscorpius rotundicauda*

ST *Tachypleus tridentatus*

Sep. 2023

Figure 3.1 *Examples of photographic records of horseshoe crab Carcinoscorpius rotundicauda (Mar 2023), Tachypleus tridentatus (September 2023).*

Photo taken in March 2024

Photo taken in September 2024

Photo taken in December 2024

Figure 3.1 (Cont'd) *Examples of photographic records of horseshoe crab Tachypleus tridentatus (March 2024 and September 2024), and Carcinoscorpius rotundicauda (Dec 2024).*

Table 3.1. *Summary of horseshoe crab survey in December 2024*

	TC1	TC2	TC3	ST
Search duration (hr)	2	2	3	3
Carcinoscorpius rotundicauda				
No. of individuals	0	0	0	2
Mean prosomal width (mm)	\	\	\	43
Max. prosomal width (mm)	\	\	\	44
Min. prosomal width (mm)	\	\	\	42
Search record (ind. hr-1 person-1)	0	0	0	0.33
Tachypleus tridentatus				
No. of individuals	0	0	0	0
Mean prosomal width (mm)	\	\	\	\
Max. prosomal width (mm)	\	\	\	\
Min. prosomal width (mm)	\	\	\	\
Search record (ind. hr-1 person-1)	0	0	0	0

March 2015 - ST

June 2017 – TC2

(Female)

(Male)

June 2017 – TC3

Figure 3.2 Photographic records of mating pairs of horseshoe crab

December 2017 – TC3

June 2018 – TC3

(Female) (Male)

Figure 3.2(Cont'd) *Photographic records of mating pair of* horseshoe crabs

March 2019 – TC2

June 2019 – TC3

March 2020 – TC1

June 2022 – TC3

Figure 3.2 (Cont'd). *Photographic records of mating pairs of horseshoe crabs*

TC1

TC2

Figure 3.3 *Photographic records of newly hatched individuals of horseshoe crab (September 2018)*

Carcinoscorpius rotundicauda

June 2017

December 2017

December 2018

March 2019

Figure 3.4 *Photographic records of large individuals (>100 mm) of horseshoe crabs were excluded from data analysis*

Tachypleus tridentatus

September 2017

June 2019

March 2020

June 2022

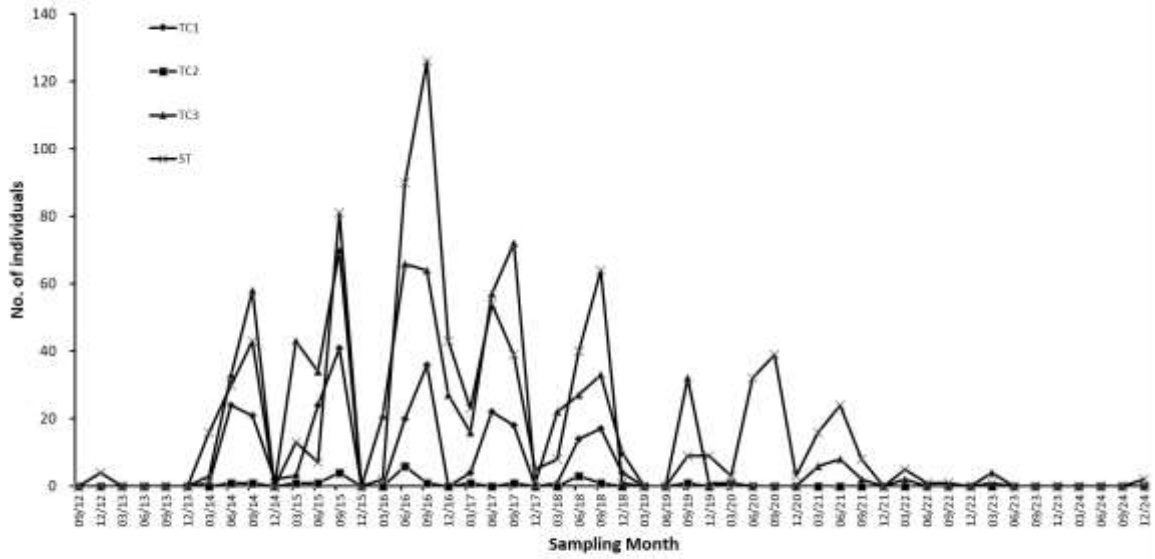
September 2022

September 2023

Figure 3.4 (Cont'd) *Photographic records of large individuals (>100 mm) of horseshoe crabs records were excluded from data analysis*

Carcinoscorpius rotundicauda
December 2024

Figure 3.4 (Cont'd) *Photographic records of large individuals (>100 mm) of horseshoe crabs records were excluded from data analysis*



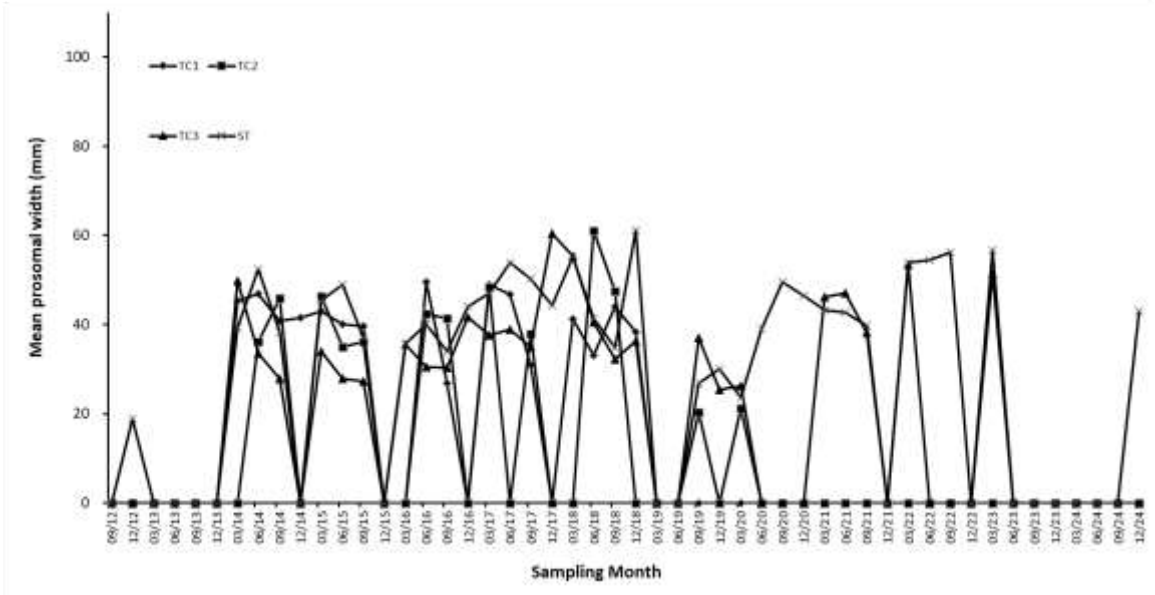


Figure 3.5 *Changes of number of individuals mean prosomal width and search record of horseshoe crab Carcinoscorpius rotundicauda in every sampling zone along the sampling months*

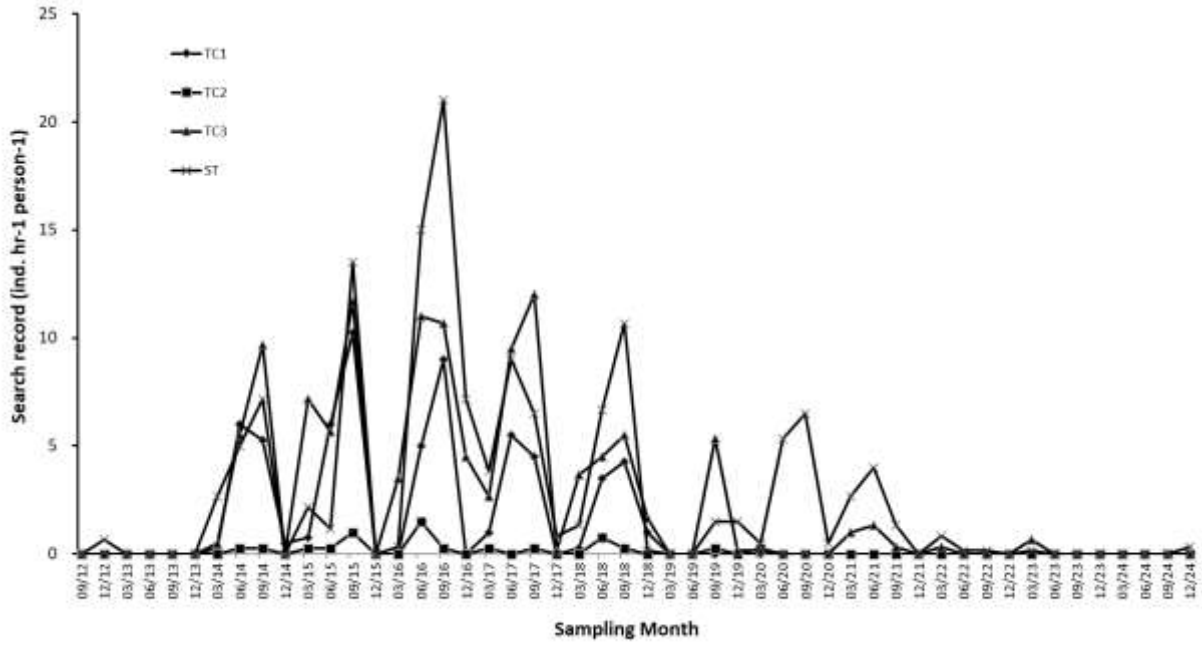


Figure 3.5 (Cont'd) *Changes of number of individuals mean prosomal width and search record of horseshoe crab Carcinoscorpius rotundicauda in every sampling zone along the sampling months*

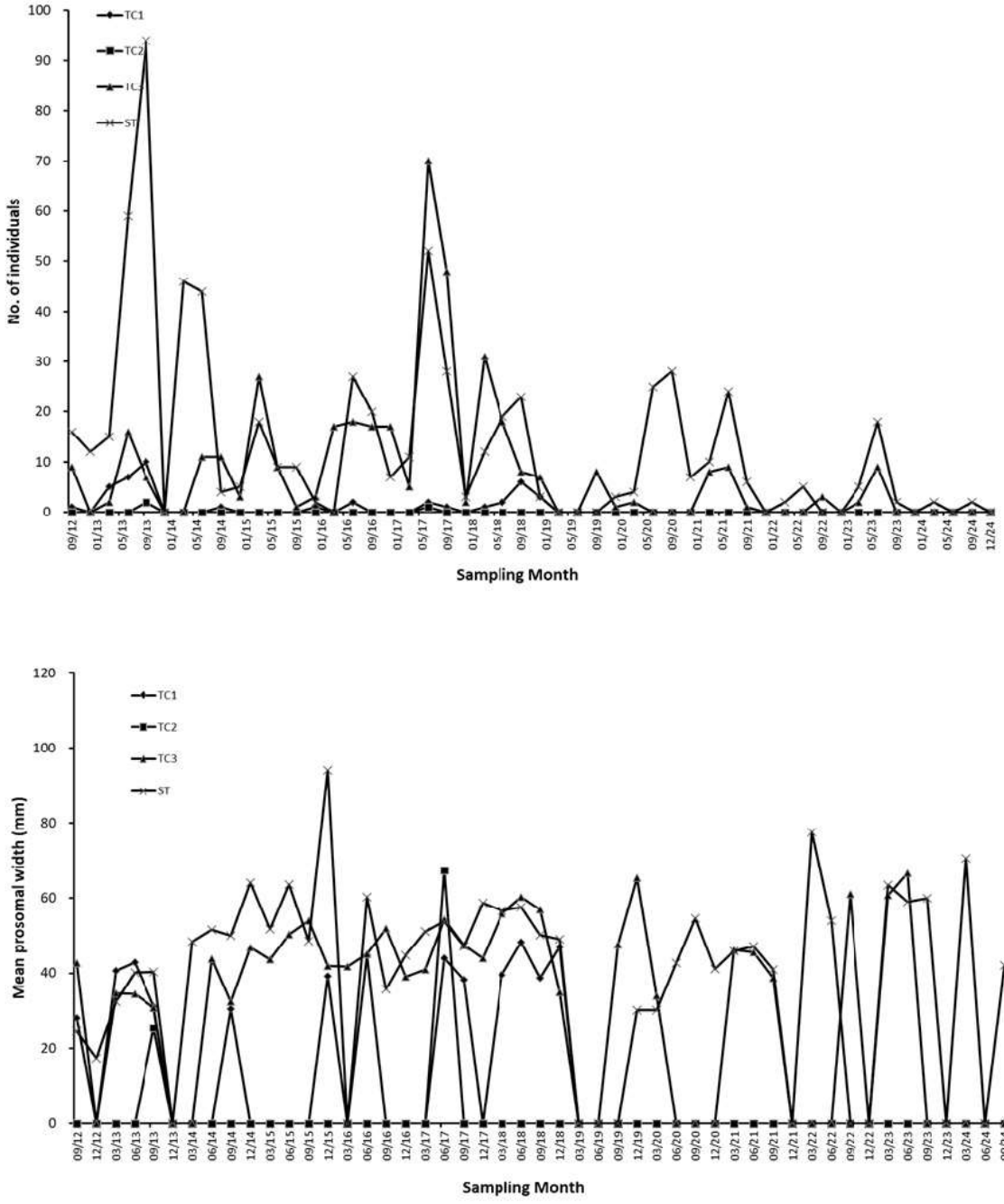


Figure 3.6 *Changes of number of individuals mean prosomal width and search record of horseshoe crab Tachypleus tridentatus in every sampling zone along the sampling months*

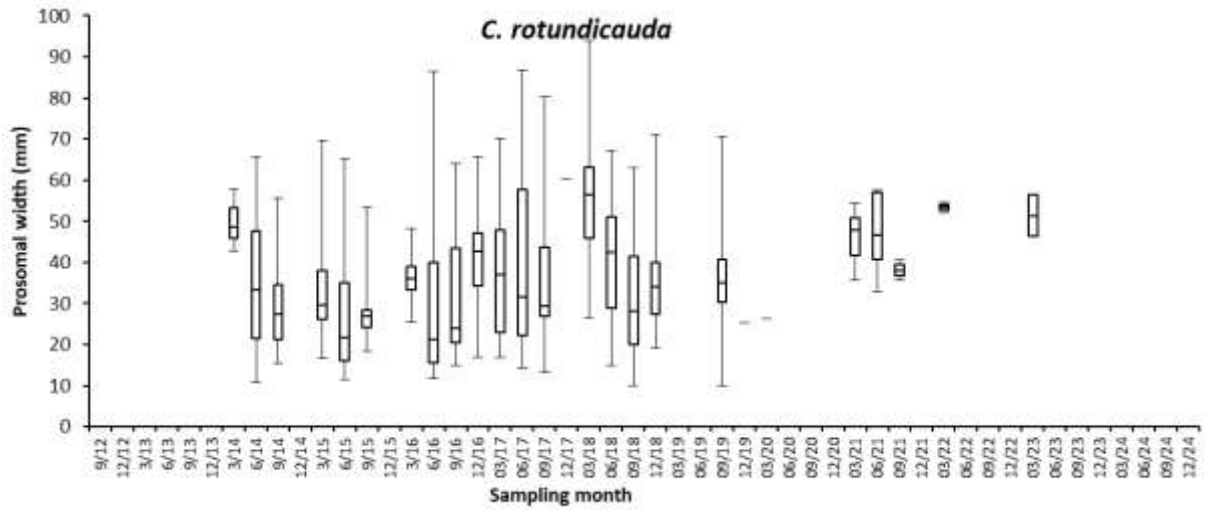


Figure 3.6 (Cont'd) *Changes of number of individuals mean prosomal width and search record of horseshoe crab Tachypleus tridentatus in every sampling zone along the sampling months*

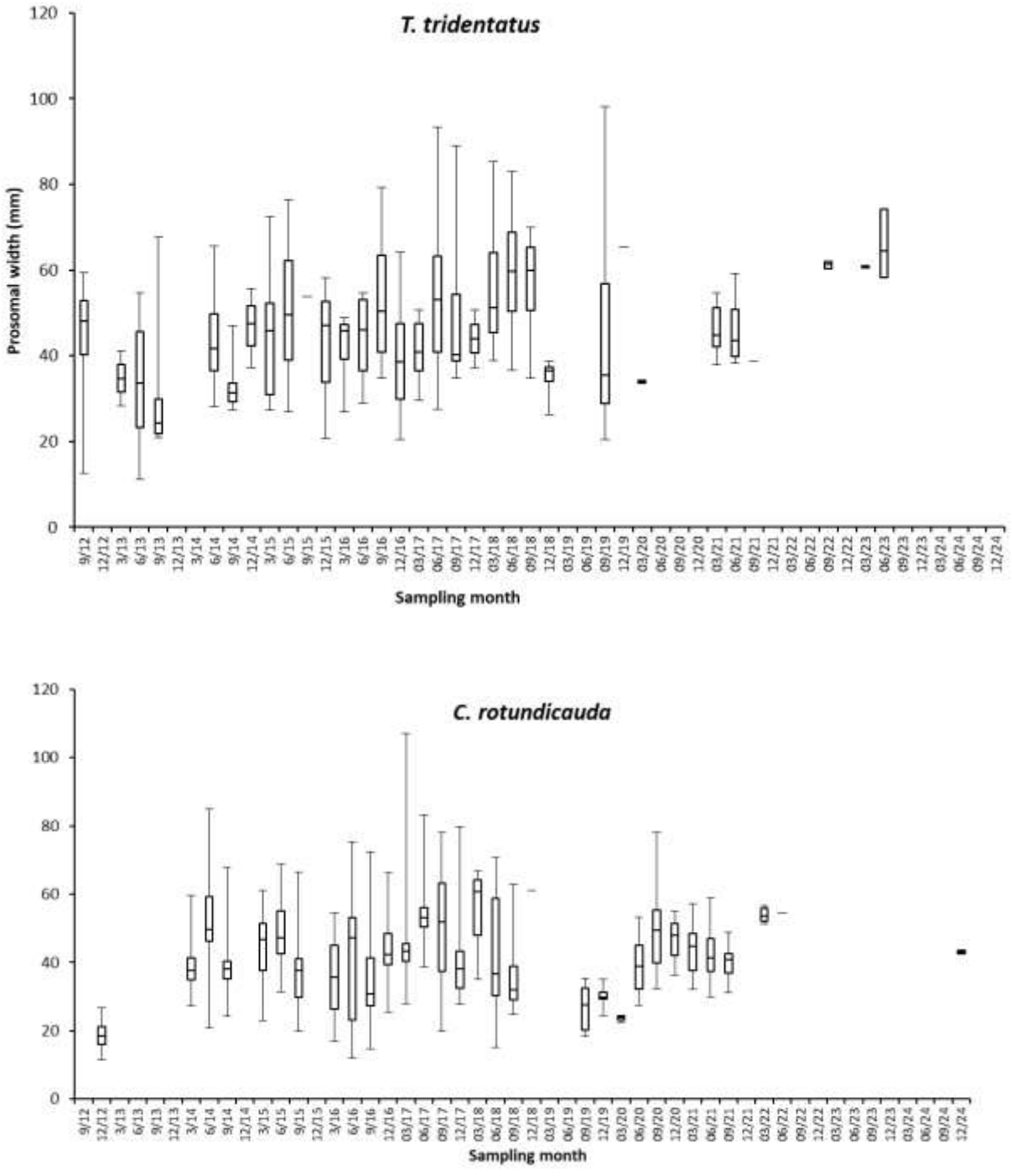


Figure 3.7 *Box plot of prosomal width of horseshoe crab in the sampling zone TC3 along the sampling months. (The box represents 50% of the sample (upper to lower quartile) with a middle line showing the median value. The upper whisker and lower whisker showed the 25% of sample above upper quartile and below the lower quartile respectively)*

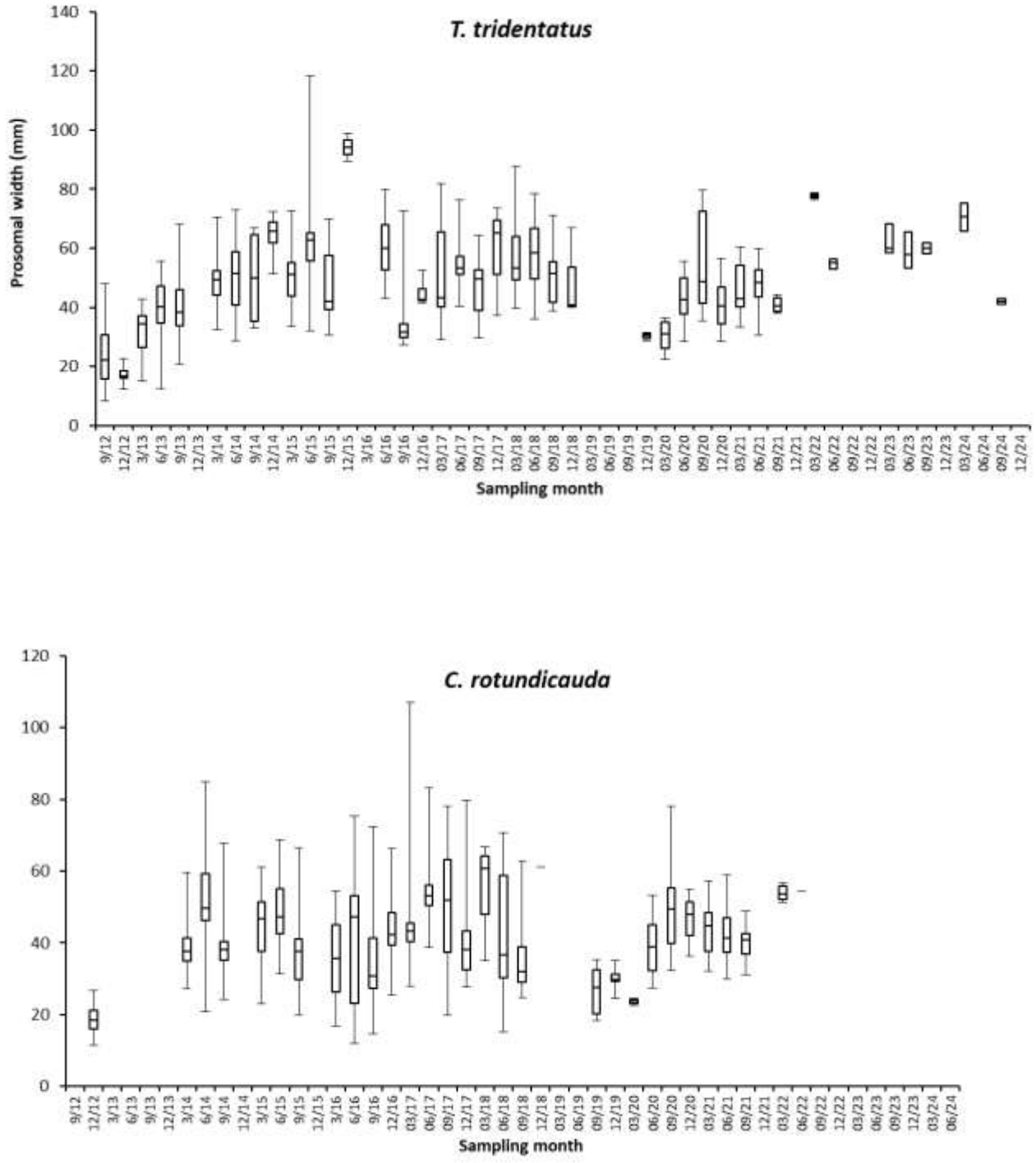


Figure 3.8 *Box plot of prosomal width of horseshoe crab in the sampling zone ST along the sampling months. (The box represents 50% of the sample (upper to lower quartile) with a middle line showing the median value. The upper whisker and lower whisker showed the 25% of sample above upper quartile and below the lower quartile respectively.)*

Photos below: Brown filamentous algae bloom at ST, March 2022


Photos below: **Brown filamentous algae at seagrass bed at ST disappeared, June 2022**

Halophila ovalis covered large area of mudflat


Figure 3.9 Examples of Photographic record of seagrass beds.

***Halophila ovalis* in TC3, June 2024**

***Halophila ovalis* (left) and *Zostera japonica* (right) in ST June 2024**

***Halophila ovalis* in TC3, September 2024**

Figure 3.10 Photographic records of seagrass beds in 2024 survey

Halophila ovalis **(below left) and** ***Zostera japonica*** **(below right) in ST September 2024**

Photo shown disappearance of seagrass bed in December 2024

Figure 3.10 (Cont'd) Photographic records of seagrass beds in 2024 survey

Table 3.2. Summary *of seagrass beds survey*

Sampling zone	TC3 *Halophila ovalis*	ST *Halophila ovalis*	ST *Zostera japonica*
Number of patches	0	0	0
Total area (m^2)	0	0	0
Average area (m^2)	0	0	0

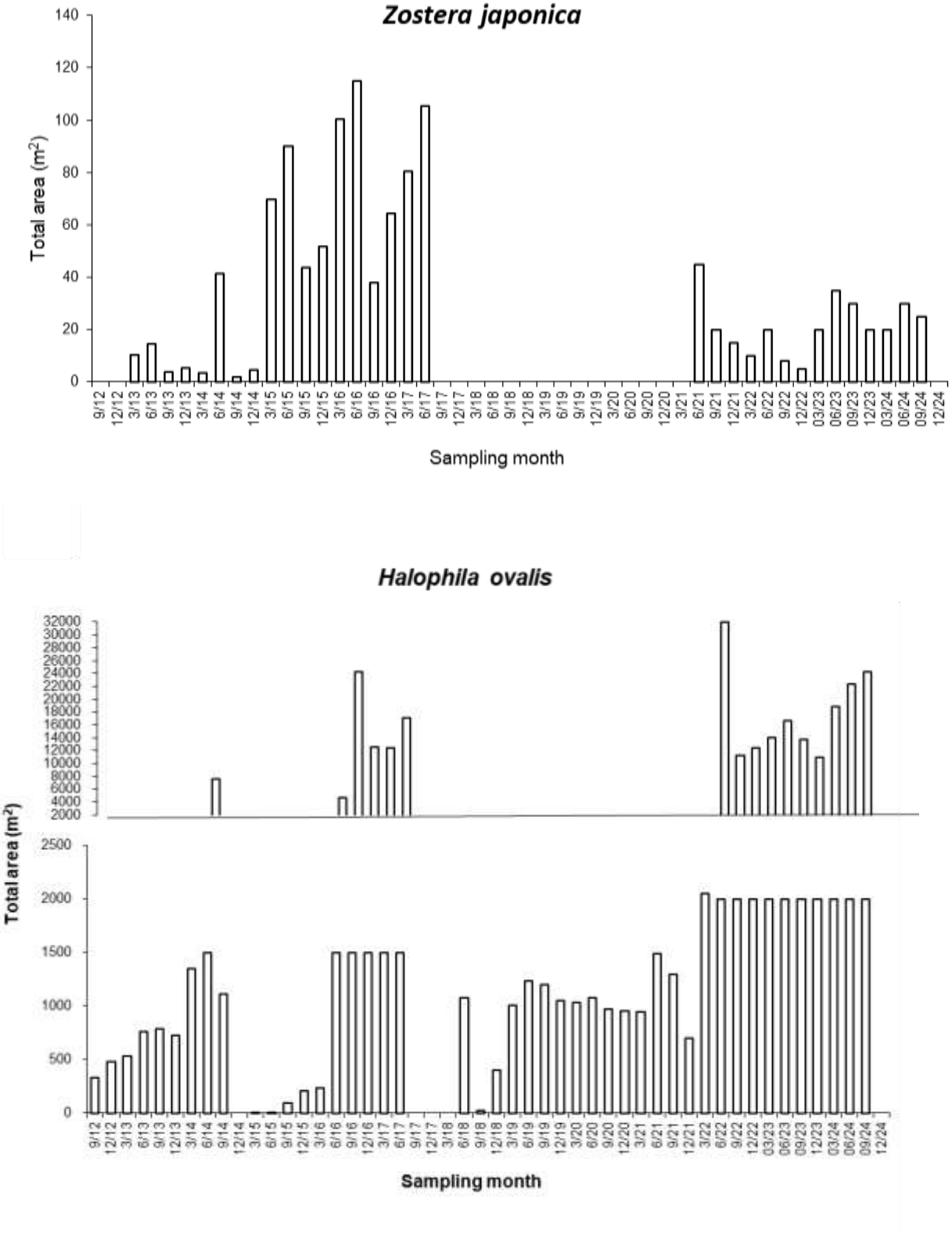


Figure 3.11 *Temporal changes of estimated total area of seagrass beds in ST.*

June 2014

December 2014 (no seagrass)

September 2015

June 2017

September 2017-March 2018 (no seagrass)

September 2018

Figure 3.12 Comparison of pictures taken in different sampling months shows the successive disappearance and recolonization of seagrass beds in ST. The picture of December 2018 was lacking due to night-dawn survey time.

March 2019

June 2019

September 2019

December 2019

March 2020

June 2020

Figure 3.12 (Cont'd) *Comparison of pictures taken in different sampling months shows the successive disappearance and recolonization of seagrass beds in ST.*

September 2020

December 2020

March 2021

June 2021

September 2021

December 2021

Figure 3.12 (Cont'd) *Comparison of pictures taken in different sampling months shows the successive disappearance and recolonization of seagrass beds in ST.*

March 2022

June 2022

September 2022

December 2022

March 2023

June 2023

Figure 3.12 (Cont'd) *Comparison of pictures taken in different sampling months shows the successive disappearance and recolonization of seagrass beds in ST.*

September 2023

December 2023

March 2024

June 2024

September 2024

December 2024 (no seagrass)

Figure 3.12 (Cont'd) *Comparison of pictures taken in different sampling months shows the successive disappearance and recolonization of seagrass beds in ST. All seagrasses disappeared at both ST and CT3 in December 2024.*

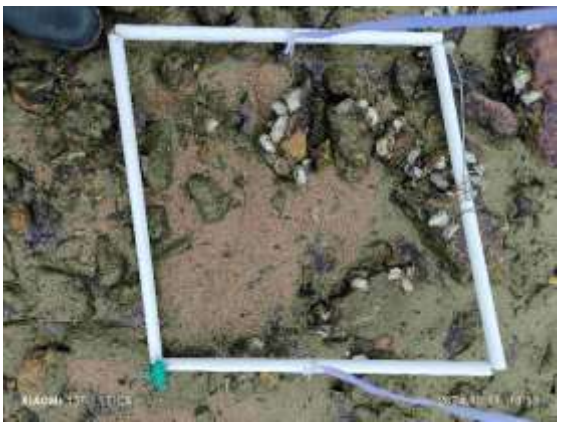
Table 3.3. *Relative distribution (%) of types of substratum along the horizontal transect at every tidal level and in every sampling zone.*

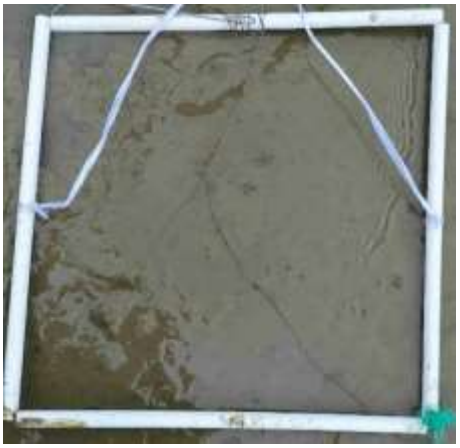
		Percentage		
Sampling zone	**Tidal level**	**Gravels and Boulders**	**Sands**	**Soft mud**
TC1	H	80	20	0
	M	80	15	5
	L	0	10	90
TC2	H	90	10	0
	M	80	10	10
	L	0	5	95
TC3	H	90	5	5
	M	70	15	15
	L	5	5	90
ST	H	90	10	0
	M	70	15	15
	L	5	10	85

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

Figure 3.13 *Examples of photographic records of quadrat for intertidal soft shore community survey in December2024 (H: 2.0 m above C.D.; M: 1.5 m above C.D.; L: 1.0 m above C.D.)*

TC1 H	**TC1 L**
	
TC2 H	**TC2 L**
	
Figure 3.13. *Examples of photographic records of quadrat for intertidal soft shore community survey in December 2024 (H: 2.0 m above C.D.; M: 1.5 m above C.D.; L: 1.0 m above C.D.)*	
TC3 H	**TC3 L**





ST H | **ST L**

Figure 3.13.(Cont'd) *Examples of photographic records of quadrat for intertidal soft shore community survey in December 2024 (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^{-2})	Number of Taxon
Dec 2024				
Mollusca	6255	87.3	209	32
Arthropoda	500	7.0	17	6
Annelida	102	1.4	3	3
Sipuncula	178	2.5	6	2
Nemertea	49	0.7	2	1
Cnidaria	62	0.9	2	1
Platyhelminthes	16	0.2	1	1
Total	7162			

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

0 ind. m^{-2}: Density of the phylum is less than 1 ind. m^{-2}.

Table 3.5 *The number of individuals, relative abundance (percentage) and density of each phylum in every sampling zone*

Phylum	TC1	%	Density (ind. m^{-2})	TC2	%	Density (ind. m^{-2})	TC3	%	Density (ind. m^{-2})	ST	%	Density (ind. m^{-2})
Mollusca	1509	88.6	201	1416	83.5	189	1606	88.2	214	1724	88.7	230
Arthropoda	114	6.7	15	204	12.0	27	92	5.1	12	90	4.6	12
Annelida	33	1.9	4	0	0.0	0	44	2.4	6	25	1.3	3
Sipuncula	29	1.7	4	30	1.8	4	58	3.2	8	61	3.1	8
Nemertea	0	0.0	0	16	0.9	2	4	0.2	1	29	1.5	4
Cnidaria	18	1.1	2	30	1.8	4	0	0.0	0	14	0.7	2
Platyhelminthes	0	0.0	0	0	0.0	0	16	0.9	2	0	0.0	0
Sub-total	1703			1696			1820			1943		

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

0 ind. m^{-2}: Density of the phylum is less than 1 ind. m^{-2} of the sampling zone.

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

Sampling zone TC1	Group	Species	Mean density (ind. m^{-2})	Relative abundance (%)	Cumulative relative abundance (%)
High	Bi	*Saccostrea cucullata*	105	42	42
	G	*Monodonta labio*	49	19	61
Mid	Bi	*Saccostrea cucullata*	73	31	31
	G	*Monodonta labio*	49	21	52
	G	*Batillaria zonalis*	39	17	69
Low	G	*Batillaria multiformis*	43	22	22
	G	*Nodilittorina radiata*	35	18	40
	Bi	*Barbatia virescens*	32	16	56

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^{-2})	Relative abundance (%)	Cumulative relative abundance (%)
High	Bi	*Saccostrea cucullata*	96	35	35
	G	*Monodonta labio*	56	20	55
	G	*Batillaria multiformis*	36	13	68
Mid	Bi	*Saccostrea cucullata*	80	35	35
	G	*Batillaria zonalis*	36	16	51
	G	*Monodonta labio*	28	12	63
Low	Bi	*Barbatia virescens*	44	25	25
	G	*Batillaria multiformis*	34	19	44

Bi = Bivalve, 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^{-2})	Relative abundance (%)	Cumulative relative abundance (%)
High	Bi	*Saccostrea cucullata*	119	42	42
	G	*Monodonta labio*	67	23	55
Mid	Bi	*Saccostrea cucullata*	80	36	36
	G	*Monodonta labio*	36	16	52
Low	Bi	*Barbatia virescens*	54	25	25
	G	*Lunella granulata*	36	17	42
	G	*Batillaria multiformis*	28	13	55

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^{-2})	Relative abundance (%)	Cumulative relative abundance (%)
High	Bi	*Saccostrea cucullata*	92	35	35
	G	*Monodonta labio*	56	21	56
Mid	Bi	Saccostrea cucullata	89	30	30
	G	Monodonta labio	97	33	63
Low	G	*Batillaria zonalis*	63	28	28
	G	*Lunella granulata*	46	21	49

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*

Samling zone	Tidal	Mean species number (spp. 0.25m-2)	Mean species number across tidal levels	Mean density (ind. m-2)	Mean density across tidal levels	Mean H'	Mean H' across tidal levels	Mean J	Mean J across tidal levels
TC1	H	16	16	253	227	2.1	2.17	0.8	0.83
	M	15		235		2.1		0.8	
	L	16		194		2.3		0.9	
TC2	H	16	16	273	226	2.1	2.20	0.7	0.80
	M	16		230		2.2		0.8	
	L	15		175		2.3		0.9	
TC3	H	16	17	285	243	1.9	2.17	0.7	0.77
	M	18		226		2.3		0.8	
	L	16		217		2.3		0.8	
ST	H	16	16	264	258	2.1	2.17	0.8	0.77
	M	17		293		2.1		0.7	
	L	16		216		2.3		0.8	

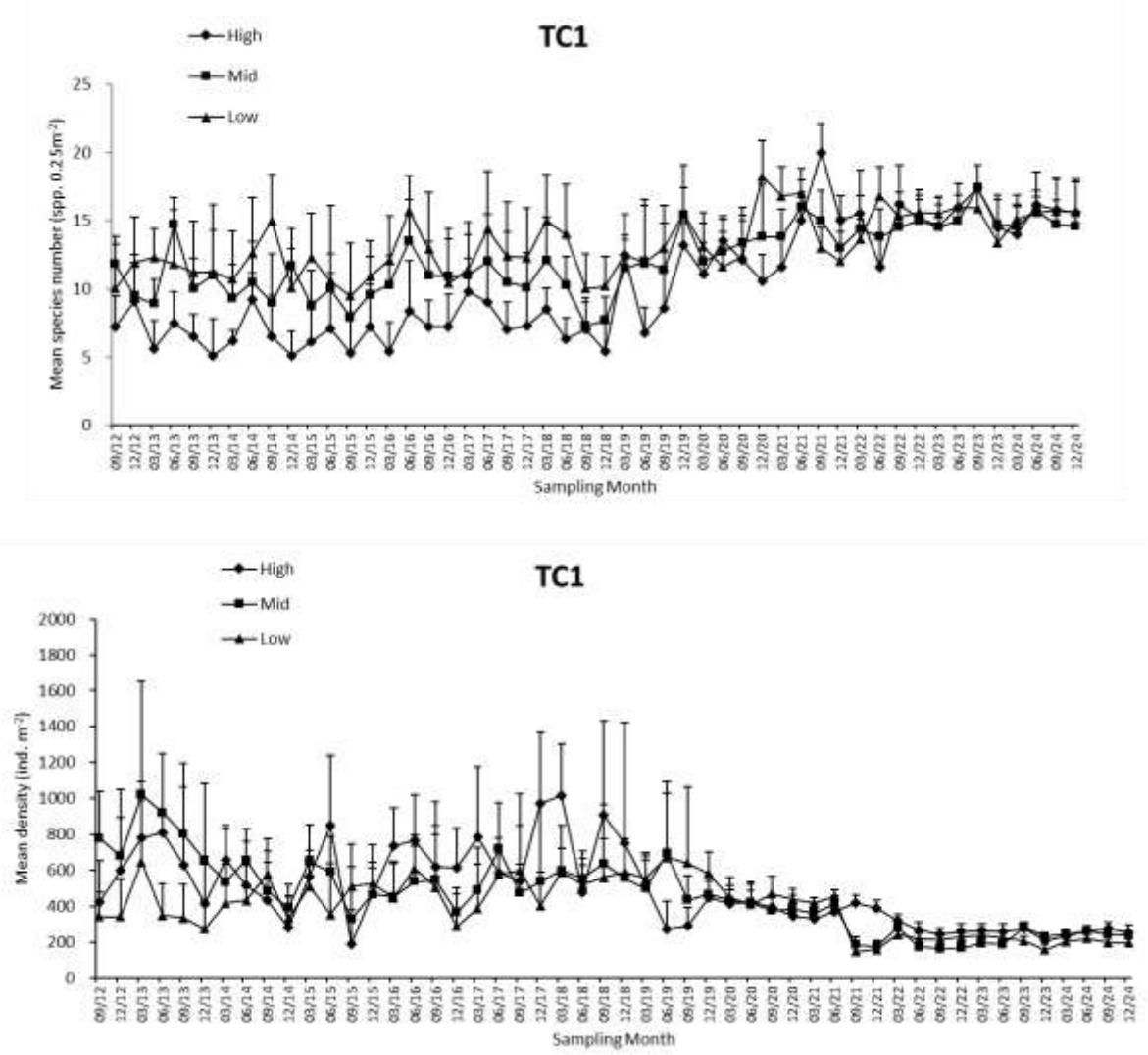


Figure 3.14 *Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD)at every tidal level in sampling zone TC1*

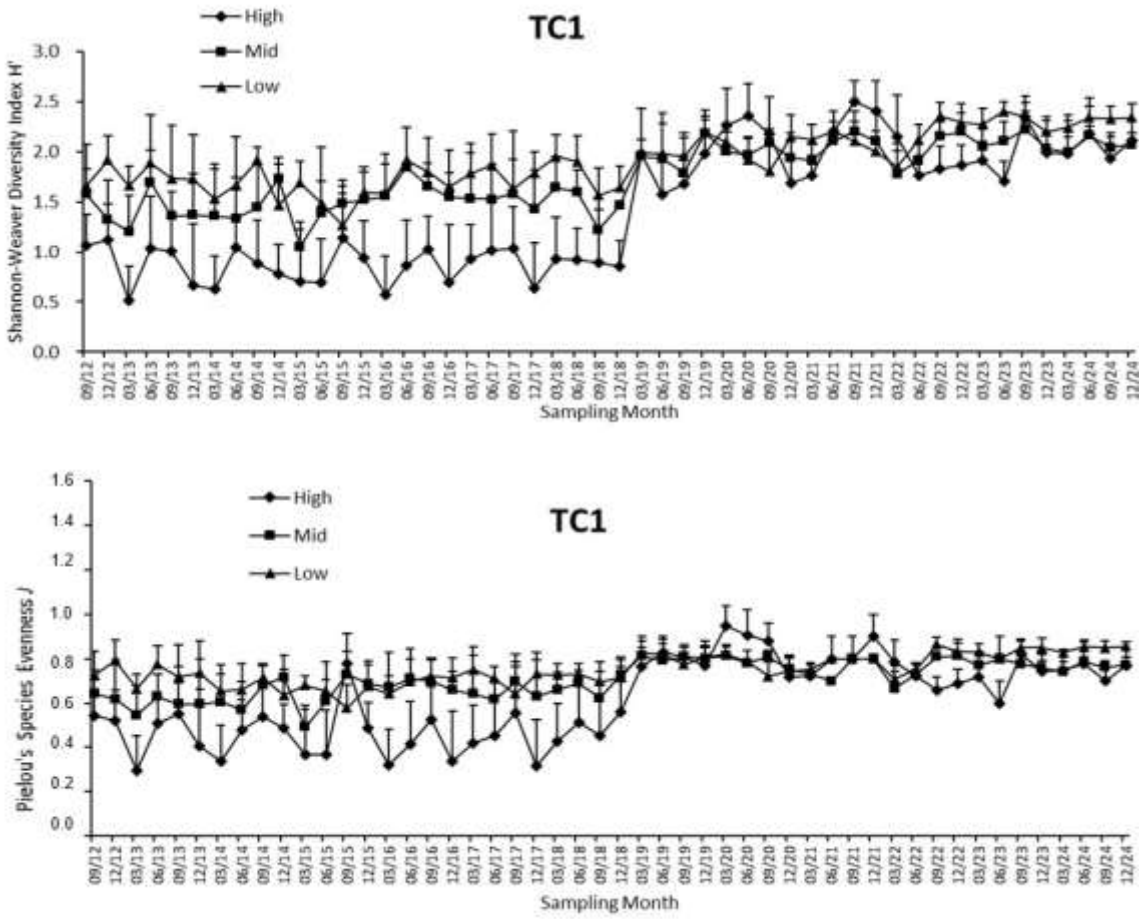
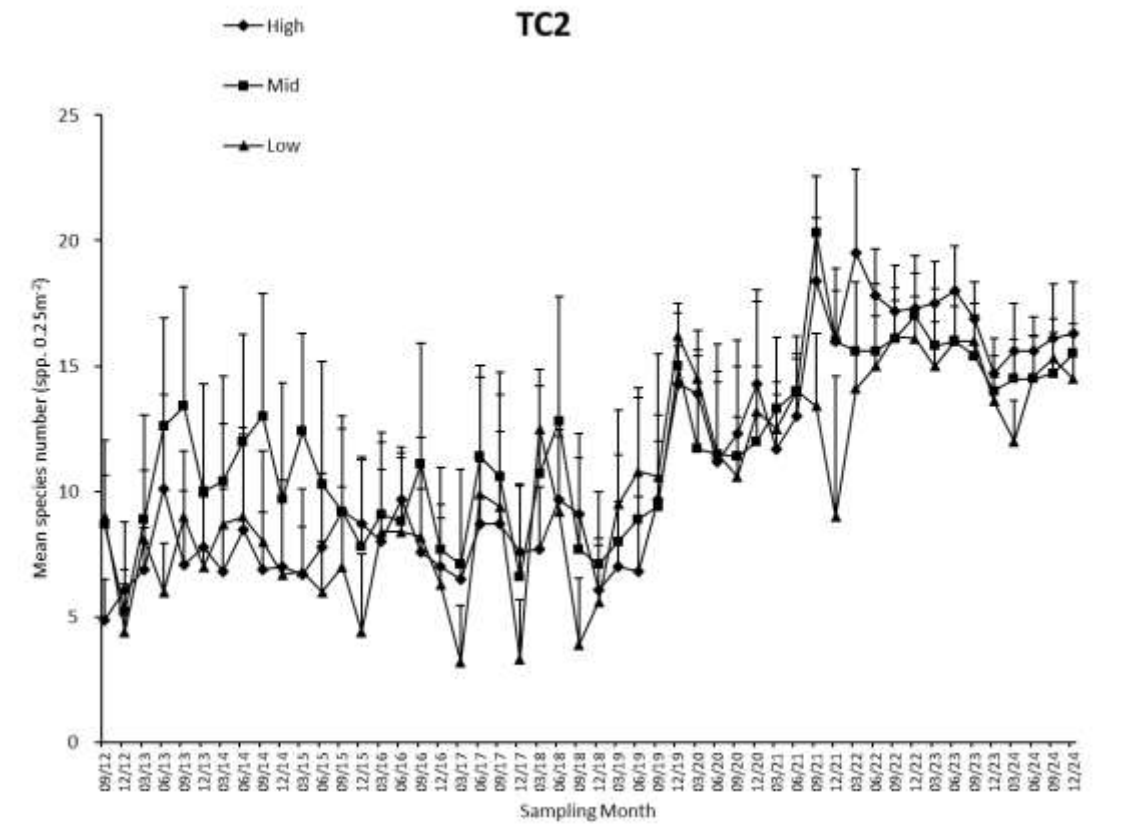


Figure 3.14(Cont'd) *Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD)at every tidal level in sampling zone TC1*



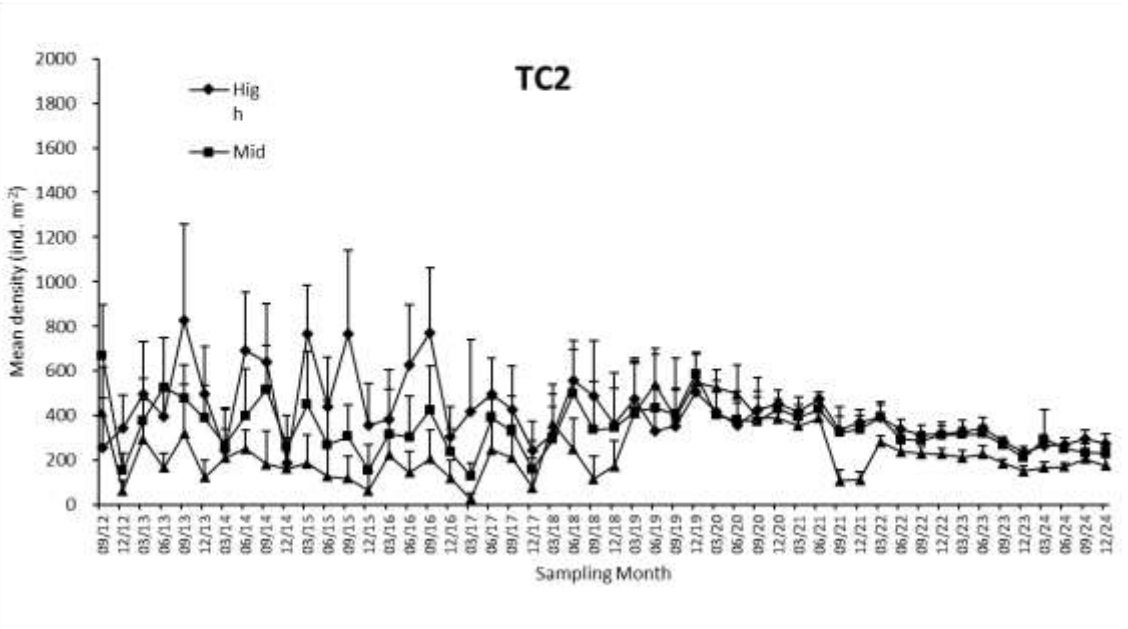
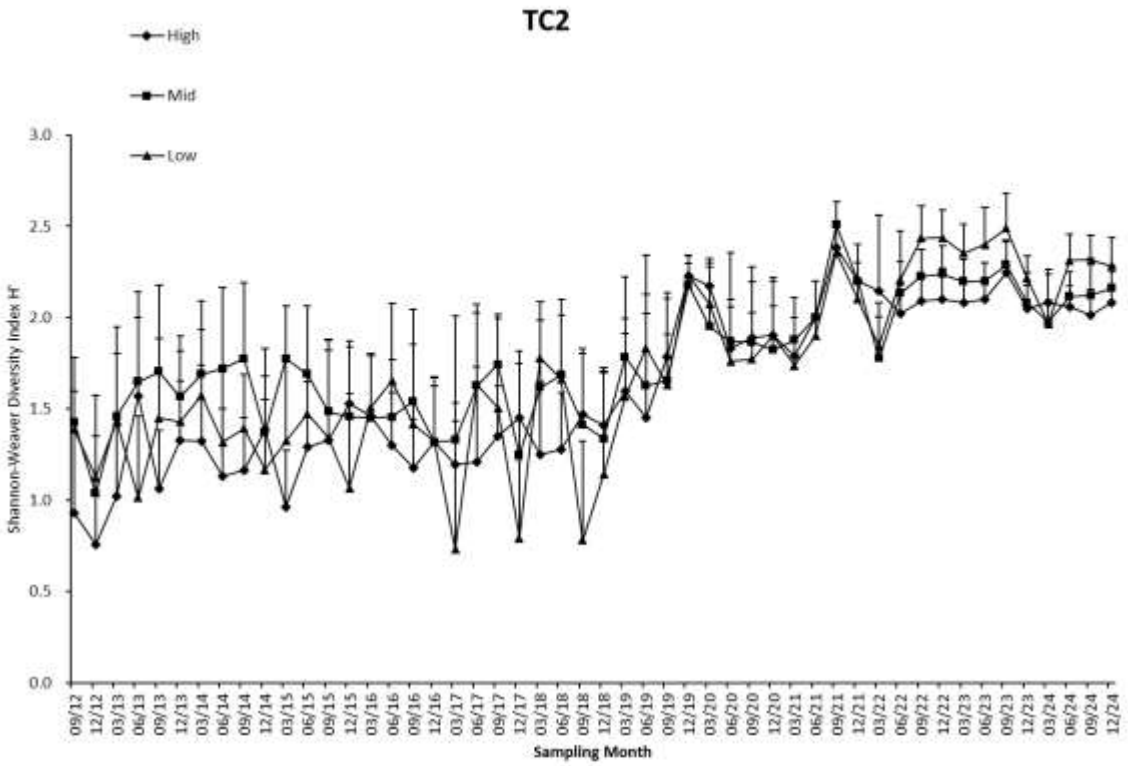


Figure 3.15 *Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every*

tidal level in sampling zone TC2.



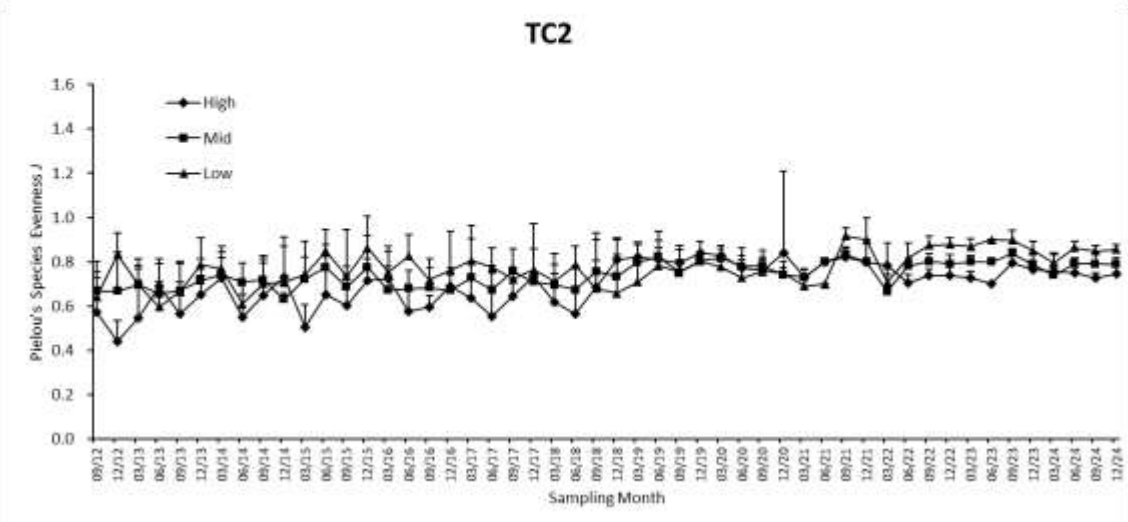
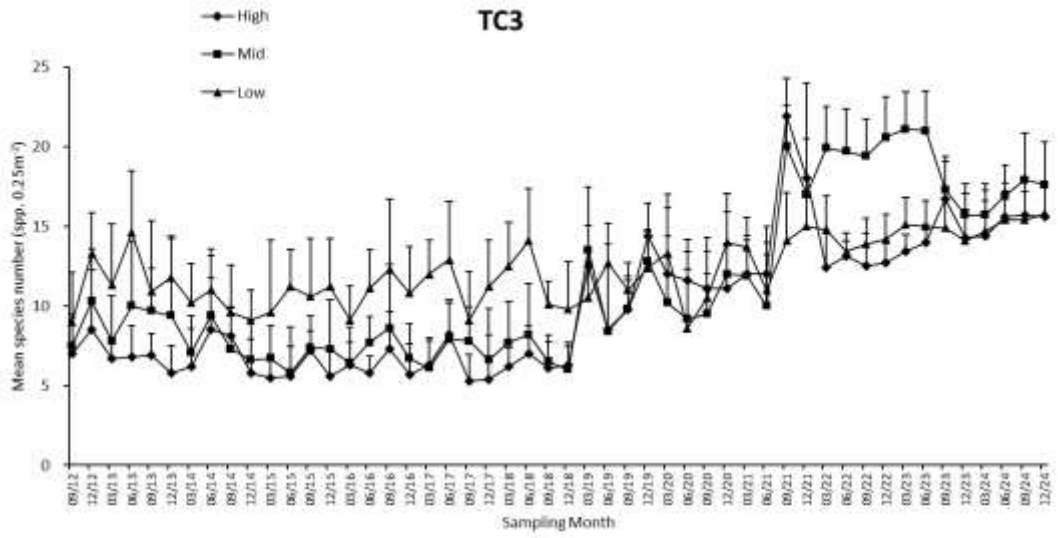


Figure3.15 (Cont'd) *Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC2.*



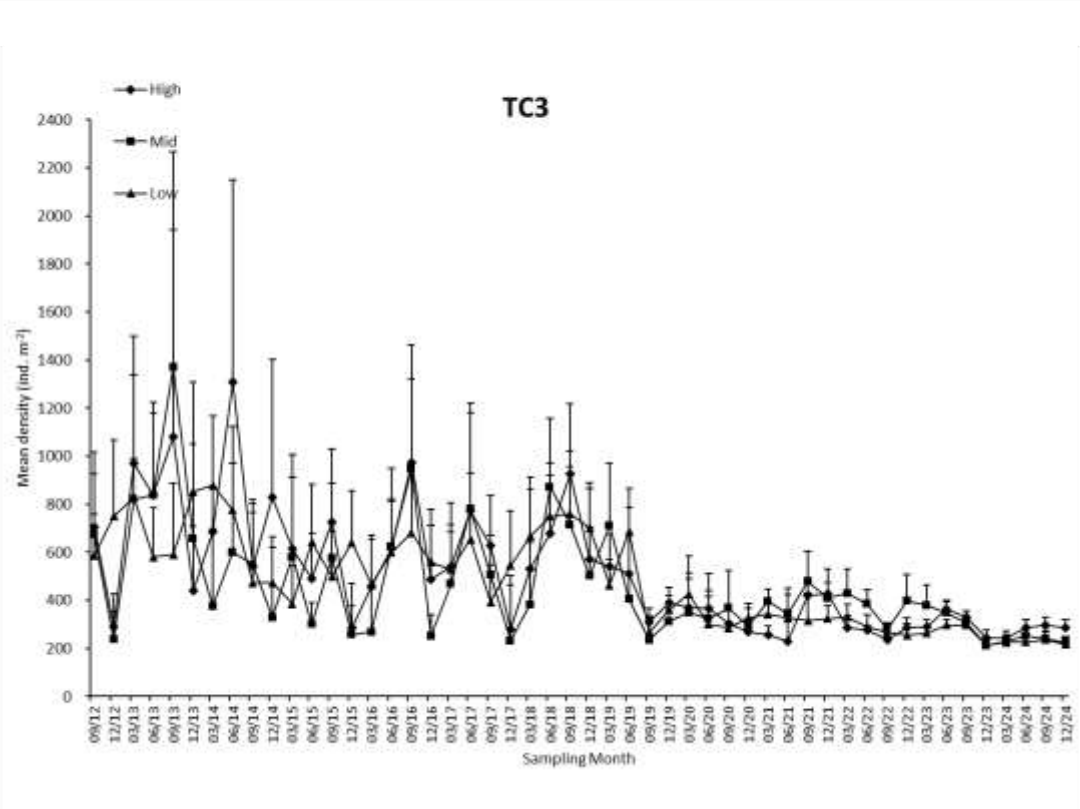
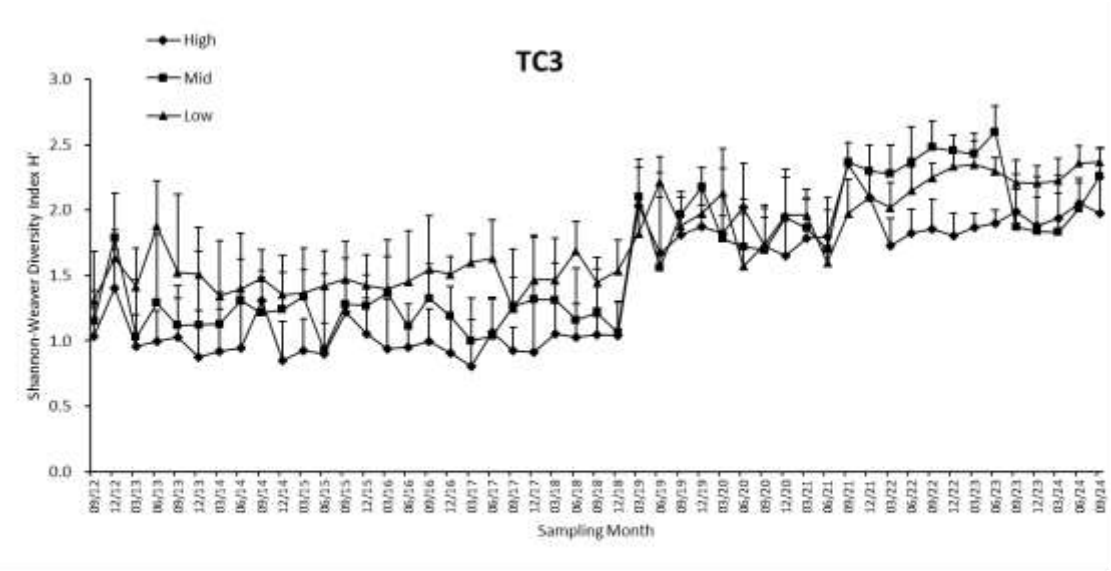


Figure 3.16 *Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC3.*



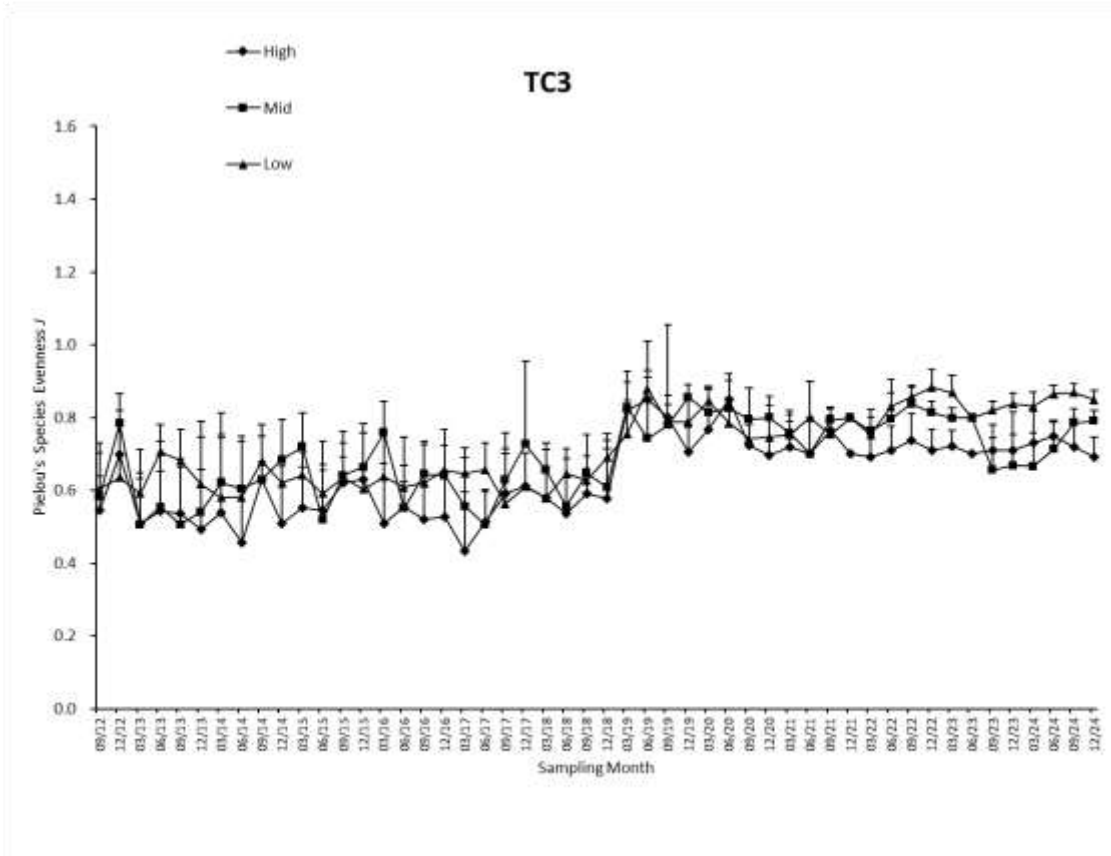


Figure 3.16 (Cont'd) *Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC3.*

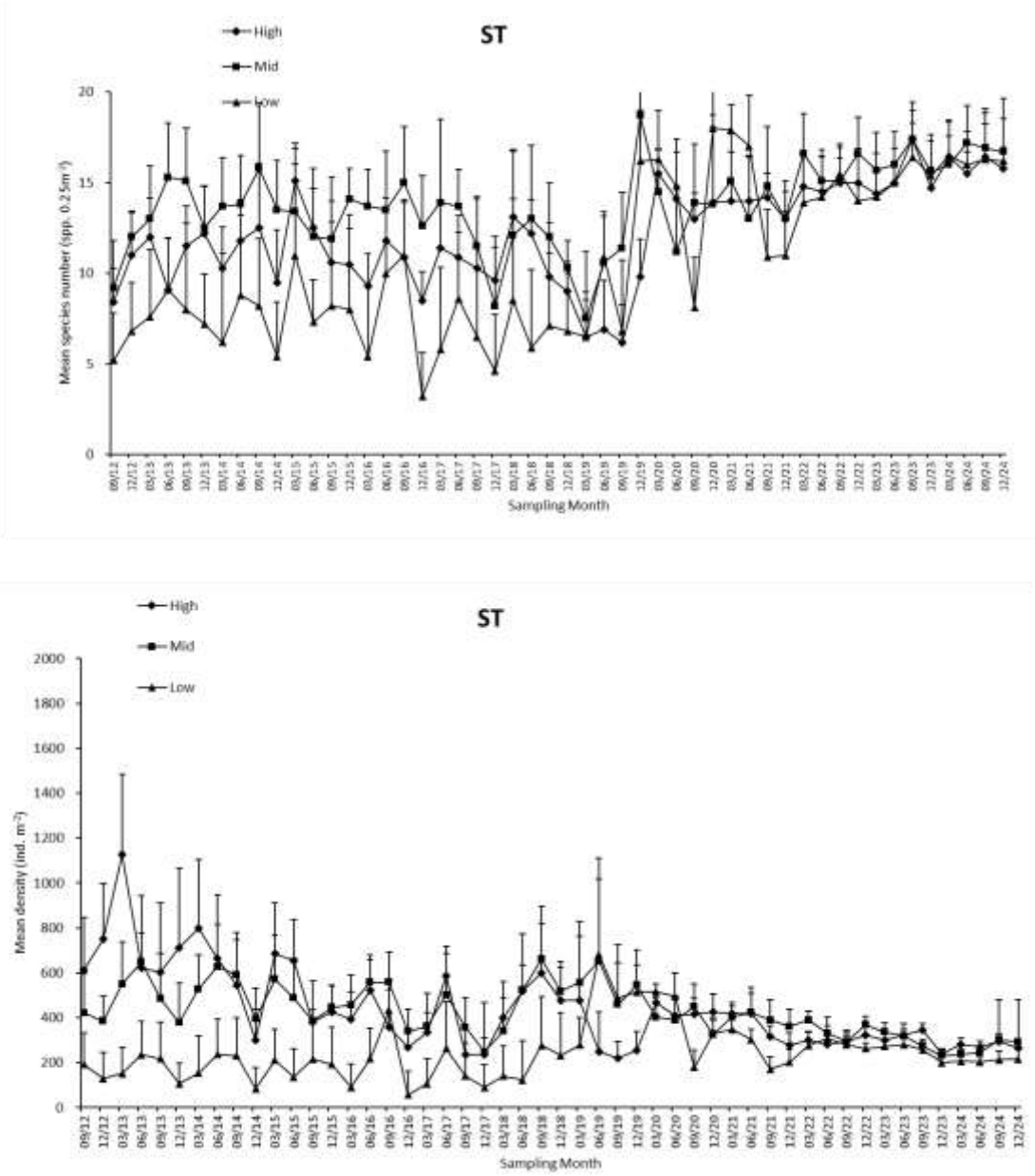
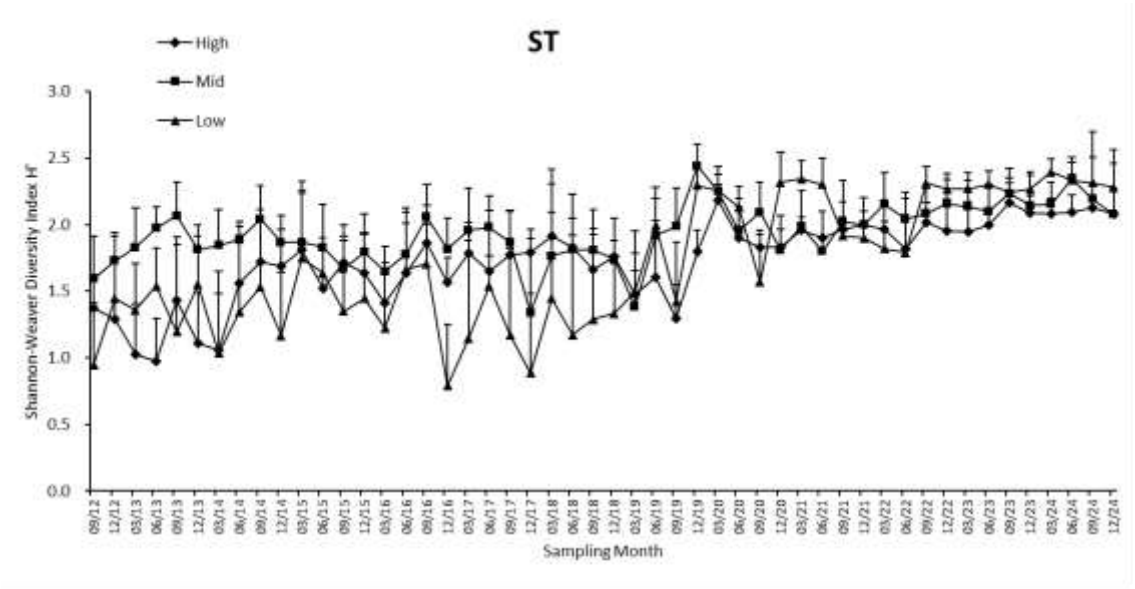


Figure 3.17 *Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone ST.*



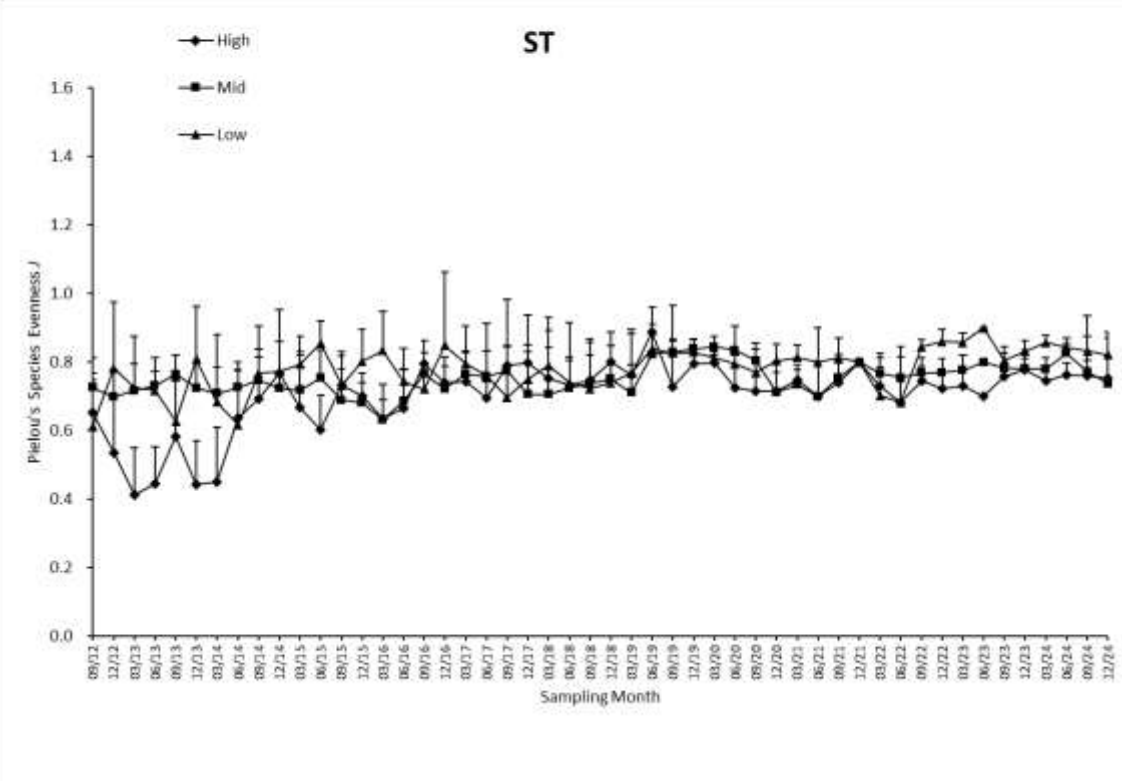


Figure 3.17(Cont'd) *Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone ST.*

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

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

No.	Sub.	GPS coordinate		Record of prosomal width (mm)	
Sampling site TC1 (Search hour = 2 hrs)				*Carcinoscorpius rotundicauda*	*Tachypleus tridentatus*
		No record			
		No. of ind.		**0**	**0**
Sampling site TC2 (Search hour = 2 hrs)				*Carcinoscorpius rotundicauda*	*Tachypleus tridentatus*
		No record			
		No. of ind.		**0**	**0**
Sampling site TC3 (Search hour = 3 hrs)				*Carcinoscorpius rotundicauda*	*Tachypleus tridentatus*
		No record			
		No. of ind.		**0**	**0**
Sampling site ST (Search hour = 3 hrs)				*Carcinoscorpius rotundicauda*	*Tachypleus tridentatus*
1	M	22°17'012"N	113°55'029"E	42.0	0
2	M	22°17'013"N	113°55'028"E	44.0	0
		No. of ind.		**2**	**0**

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

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

Estimated area (m^2)	Estimated coverage (%)	GPS coordinate	Remark
TC1& TC2 (search hour = 2 hrs)			
No record			
TC3 *Halophila ovalis* **(search hour = 3 hrs)**			
Disappeared / No record			
ST *Zostera Japonica* **(search hour = 3 hrs)**			
Disappeared / No record			
ST *Halophila ovalis* **(search hour = 3 hrs)**			
Disappeared / No record			

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

Kingdom	Phylum	Class	Order	Family	Species
Animalia	Annelida	Polycheata	Phyllodocida	Nereididae	*Nereididae spp.*
Animalia	Annelida	Polycheata	Sabellida	Sabellidae	*Sabellidae imbricatus*
Animalia	Arthropoda	Malacostraca	Decapoda	Grapsidae	*Gaetice depressus*
Animalia	Arthropoda	Malacostraca	Decapoda	Grapsidae	*Metopograpsus latifrons*
Animalia	Arthropoda	Malacostraca	Decapoda	Grapsidae	*Metopograpsus quadridentatus*
Animalia	Arthropoda	Malacostraca	Decapoda	Paguridae	*Pagurus dubius*
Animalia	Arthropoda	Malacostraca	Decapoda	Varuniae	*Hemigrapsus penicillatus*
Animalia	Arthropoda	Maxillopoda	Sessilia	Balanidae	*Balanus amphitrite*
Animalia	Cnidaria	Anthozoa	Actiniaria	Diadumenidae	*Diadumene lineata*
Animalia	Mollusca	Bivalvia	Arcoida	Arcidae	*Barbatia virescens*
Animalia	Mollusca	Bivalvia	Mytioida	Mytilidae	*Brachidontes variabilis*
Animalia	Mollusca	Bivalvia	Mytioida	Mytilidae	*Xenostrobus atratus*
Animalia	Mollusca	Bivalvia	Ostreoida	Ostreidae	*Saccostrea cucullata*
Animalia	Mollusca	Bivalvia	Venerida	Veneridae	*Ruditapes philippinarum*
Animalia	Mollusca	Bivalvia	Venerida	Glauconomidae	*Glauconome chinensis*
Animalia	Mollusca	Bivalvia	Venerida	Veneridae	*Anomalocardia squamosa*
Animalia	Mollusca	Gastropoda	Archaeogastropoda	Trochidae	*Monodonta labio*
Animalia	Mollusca	Gastropoda	Archaeogastropoda	Turbinidae	*Lunella coronata*
Animalia	Mollusca	Gastropoda	Archaeogastropoda	Turbinidae	*Lunella granulata*
Animalia	Mollusca	Gastropoda	Caenogastropoda	Batillariidae	*Batillaria multiformis*
Animalia	Mollusca	Gastropoda	Caenogastropoda	Batillariidae	*Batillaria zonalis*
Animalia	Mollusca	Gastropoda	Caenogastropoda	Potamididae	*Pirenella asiatica*
Animalia	Mollusca	Gastropoda	Caenogastropoda	Potamididae	*Pirenella incisa*
Animalia	Mollusca	Gastropoda	Cycloneritimorpha	Neritidae	*Clithon faba*
Animalia	Mollusca	Gastropoda	Cycloneritimorpha	Neritidae	*Clithon retropictus*
Animalia	Mollusca	Gastropoda	Cycloneritimorpha	Neritidae	*Nerita chamaeleon*
Animalia	Mollusca	Gastropoda	Cycloneritimorpha	Neritidae	*Nerita lineata*
Animalia	Mollusca	Gastropoda	Cycloneritimorpha	Neritidae	*Nerita polita*
Animalia	Mollusca	Gastropoda	Cycloneritimorpha	Neritidae	*Nerita squamulata*
Animalia	Mollusca	Gastropoda	Littorinimorpha	Littorinidae	*Littoraria articulata*
Animalia	Mollusca	Gastropoda	Neogastropoda	Muricidae	*Thais clavigera*
Animalia	Mollusca	Gastropoda	Neotaenioglossa	Littorinidae	*Nodilittorina radiata*

Animalia	Mollusca	Gastropoda	Patellogastropoda	Lottiidae	*Lottia dorsuosa*
Animalia	Mollusca	Gastropoda	Patellogastropoda	Lottiidae	*Lottia luchuana*
Animalia	Mollusca	Gastropoda	Patellogastropoda	Lottiidae	*Nipponacmea concinna*
Animalia	Mollusca	Gastropoda	Trochida	Tegulidae	*Chlorostoma argyrostomum*
Animalia	Mollusca	Gastropoda		Lottiidae	*Patelloida pygmaea*
Animalia	Mollusca	Polyplacophora	Chitonida	Ischnochitonidae	*Lepidozona spp.*
Animalia	Nemertea				*Nemertea spp.*
Animalia	Platyhelminthes				*Platyhelminthes sp.*
Animalia	Sipuncula	Sipunculidae	Golfingiida	Sipunculidae	*Siphonosoma sp.*
Animalia	Sipuncula	Sipunculidae	Golfingiida	Sipunculidae	*Sipunculus nudus*

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

Dec 2024 Sampling Zone TC1 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	*Balanus amphitrite*	2		0		1		3				2						2				10
Bi	*Barbatia virescens*	1		1		3				2		2	1	0	1	0	2	0		1		14
Bi	*Brachidontes variabilis*	5				0		0				1	1			1		2				10
Bi	*Glauconome chinensis*	1		0						0		2	2	0		0		1		2		8
Bi	*Saccostrea cucullata*	19		28		33		29		30		24		30		22		26		22		263
Bi	*Xenostrobus atratus*									1	1			0		0		1		0		3
C	*Gaetice depressus*	1	1	0						0		3	1	2		0	2	1		0		11
C	*Metopograpsus latifrons*	3		0		2	1			4		3				2		1		0	1	17
C	*Pagurus dubius*	0		0		0		0				0				1		0		0		1
G	*Batillaria multiformis*	0		1				1				2		1				1		1		7
G	*Batillaria zonalis*	1		2			2	3	1			1	1	2		2		0				15
Cn	*Diadumene lineata*	1				0		0						1		1				2		5
G	*Cellana toreuma*	0		1		5		2		2					1			2		1		14
G	*Chlorostoma argyrostomum*	1						3		4		1		0		0				2		11
G	*Clithon faba*	0				2		1		3		2		1		1		0		1	1	12

G	*Littoraria articulata*						2		2		0		0	1	3	8
G	*Lottia dorsuosa*						0				0		0	1	0	1
G	*Lottia luchuana*	0	0	1		1	1		0		2		2			7
G	*Lunella coronata*	0	0	3		1	3		0			1		3	0	11
G	*Lunella granulata*	2				1	0		2		1		1	0	0	7
G	*Monodonta labio*	11	8	11		11	19		17		14		6	8	17	122
G	*Nipponacmea concinna*	1	2	3		2	0		1	1	2		2	2	0	16
G	*Nodilittorina radiata*		1			1	1	1			2		1		0	7
G	*Patelloida pygmaea*	1	1			1							3		1	7
P	*Nereididae spp.*		0				2				2		0	2		6
G	*Pirenella asiatica*	2	0	3		0	1		4			1	2	0	0	13
P	*Sabellidae imbricatus*	1	1	2		0	1			1					0	6
Po	*Lepidozona spp.*	2	0	3	1	1			2		2		2	1	1	15
Sp	*Siphonosoma sp.*	1	2				0						1	0	1	5
															Total	**632**

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

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

Dec 2024	Sampling Zone TC1	Mid tidal level (1.5 m above C.D.)																						
		1		2		3		4		5		6		7		8		9		10				
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C			Sub-total
Ba	*Balanus amphitrite*	0		1		0		1		1		1		1		0		3		0				8
Bi	*Barbatia virescens*			0			1			0		0												1
Bi	*Brachidontes variabilis*	0		1		0		1		3		1		1		0	1	2		0	1			11
Bi	*Glauconome chinensis*	0		2				1				2	1	1		0		2						9
Bi	*Saccostrea cucullata*	18		19		14		15		25		19		15		18		23		16				182
Bi	*Xenostrobus atratus*	1	2			1										1		1		1				7
C	*Gaetice depressus*	2		2		1	2	1		2	1	2		1		2				1				17
C	*Hemigrapsus penicillatus*	0		1	2	0		0		1	2	1	1	0		0		0		0				8
C	*Metopograpsus latifrons*	0		0		1		1		0		0		1		0		1		1				5
G	*Batillaria multiformis*	2				0					1					2		1		0				6
G	*Batillaria zonalis*	13	2	11		5		9		7		11		9		13	2	6		9				97
G	*Chlorostoma argyrostomum*	0				2	1	0						0		0				2	1			6
G	*Clithon faba*	1		0	1	1				1		0	1			1		0		1				7
G	*Clithon retropictus*			1		1						1						0		1				4

G	*Littoraria articulata*	0		0						5	0				0					5
G	*Lottia dorsuosa*	1	1	1		0		1			1		1		1	1		0	1	9
G	*Lunella coronata*	1		1		0		1		3	1	1	1		1		2	0		12
G	*Lunella granulata*	1		0		2				0	0				1		0	2		6
G	*Monodonta labio*	11		13		7		12		11	13		12		11		16	16		122
G	*Nerita squamulata*			0		0		3		0	0		3				1	0		7
G	*Nipponacmea concinna*	1		0		6				0	0				1		0	6		14
G	*Nodilittorina radiata*			0						2	0									2
G	*Patelloida pygmaea*			1		1		1	1		1		1	1				1		8
G	*Pirenella asiatica*	1						2		4			2		1		1			11
P	*Nereididae spp.*	1			1	1		0				1	0		1		2	1		8
Po	*Lepidozona spp.*	0		0				0		2	0		0		0					2
Sp	*Siphonosoma sp.*	2		0		0				0	0				2		0	0		4
Sp	*Sipunculus nudus*	0		1		1	1		1	1	1			1	0		0	1	1	9
																			Total	**587**

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

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

Dec 2024	Sampling Zone TC1	Low tidal level (0.5 m above C.D.)																						
		1		2		3		4		5		6		7		8		9		10				
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Sub-total
Ba	*Balanus amphitrite*	0		0		1		0				0		2		0				0				3
Bi	*Barbatia virescens*	9		13		5		12	1	6		5		8		8		5		7				79
Bi	*Anomalocardiasquamosa*			1				3		0	2			1				0	1	0				8
Bi	*Brachidontes variabilis*	1		2		2		0								0				0				5
Bi	*Glauconome chinensis*	3		2	1	1										3								10
Bi	*Saccostrea cucullata*	0		0		0					2	2		1		1								6
Bi	*Xenostrobus atratus*	3						2		1						0		1		3				10
C	*Gaetice depressus*	0		0		1		3						0		0								4
C	*Hemigrapsus penicillatus*	2	2	2		0						1		0										7
C	*Metopograpsus latifrons*					1	2			1						2		1						7
C	*Pagurus dubius*	2		2		1		2		2	1	0		1				2	1	2				16
Cn	*Diadumene lineata*	0		3	1	1		3		0		1		2		1		0		1				13
G	*Batillaria multiformis*	13		14		11		14		11		5		10		11		11		6	1			107
G	*Batillaria zonalis*	1		1		1						1												4
G	*Chlorostoma argyrostomum*							0	2	1		2		0		0		1		1				7

G	*Clithon retropictus*	3	3		1				0					1		1	1		1		11
G	*Littoraria articulata*	1	1		3				1									1	1		8
G	*Lottia dorsuosa*				2						0					0					2
G	*Lottia luchuana*	0	0				0							2			2			0	4
G	*Lunella coronata*	0	0				3		1		2						2		1	1	10
G	*Lunella granulata*				0		1		1				1	1						1	5
G	*Monodonta labio*	1	2				2	2	1					0			0		1	3	12
G	*Nerita lineata*	1	2		1		1		0					1			3		0	0	9
G	*Nerita polita*	0	1		1		0										1		1	0	4
G	*Nerita squamulata*	0	0		2		2		1		1			2					1	1	10
G	*Nipponacmea concinna*	0	0		2	1			1					0			3		1		8
G	*Nodilittorina radiata*	10	15		2		11	1	9		7			8			7		9	9	88
P	*Nereididae spp.*				0		1		2		0						0		2	1	6
P	*Sabellidae imbricatus*	1	1						1		2			0			1		1		7
Po	*Lepidozona spp.*		1		0		0		0		0			1			1		0	0	3
Sp	*Siphonosoma sp.*						1	1	0		0								*0*	*1*	3
Sp	*Sipunculus nudus*	*3*	2	1	1		0				0						*1*			*0*	8
																				Total	**484**

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

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

Dec 2024	Sampling Zone TC2	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
Ba	*Balanus amphitrite*					1				0				0				0		1				2
Bi	*Barbatia virescens*		1						1	1				1										4
Bi	*Brachidontes variabilis*		1			2			1									1		2				7
Bi	*Glauconome chinensis*	0		0		1		1		2		2		2		0		2		1				11
Bi	*Saccostrea cucullata*	26		31		30		28		25		18		21		22		17		22				240
Bi	*Xenostrobus atratus*	3		1		2		3	1	1		1		1		3		2		2				20
C	*Gaetice depressus*	0		2	1	0										0				0				3
C	*Hemigrapsus penicillatus*	1	1			0				2				1		1	1		1	0				8
C	*Metopograpsus latifrons*	1						1			1	2	1			1								7
C	*Metopograpsus quadridentatus*			1		0		2	1	3		0		3						0				10
Cn	*Diadumene lineata*	3		3		0					1	0			1	3				0				11
G	*Batillaria multiformis*	7		7	0	5		15		13		9		10		7		11		5				89
G	*Batillaria zonalis*					0		2		2		1		2				0		0				7
G	*Chlorostoma argyrostomum*	1		0				0		1			1	1		1		1						6

G	*Clithon retropictus*	0	0		0		1				0			1	0	1	1		0		4
G	*Littoraria articulata*		2		1				2				2						1		8
G	*Lottia dorsuosa*	0	1	1			1		0				0		0		1				4
G	*Lunella coronata*		3		2		1				2						1		2		11
G	*Lunella granulata*		0		1		1				1								1		4
G	*Monodonta labio*	20	18		8		18		14		17		13		11		12		8		139
G	*Nerita squamulata*	1			0		1	1	1		1		1		3		1		0		10
G	*Nipponacmea concinna*	2	1						2		3		3		2		3				16
G	*Nodilittorina radiata*	1			1				1				2		2				1		8
G	*Patelloida pygmaea*	0			0		1	1							0		3		0		5
G	*Pirenella asiatica*	1				1			0	3	1		0		1					2	9
G	*Pirenella incisa*	3	3						2		0		0		3						11
Ne	*Nemertea sp.*	1	1	1	0		1		0	1	0		0		1				0		6
Po	*Lepidozona spp.*	3	0		1						1				3		2		1		11
Sp	*Siphonosoma sp.*	*1*	1		1		2	1	1			1	1		1		1		1		12
																			Total		**683**

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

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

Dec 2024 Sampling Zone TC2 Mid tidal level (1.5 m above C.D.)

		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Sub-total
Ba	*Balanus amphitrite*	1		3		1		0						2		0		3		0		10
Bi	*Barbatia virescens*			2				0		1		1		2		2		2		0		10
Bi	*Brachidontes variabilis*	3	1	1				1		2		2		3				1		1		15
Bi	*Glauconome chinensis*			3				0	1	1	1	1		0				3		0		10
Bi	*Saccostrea cucullata*	22		21	1	18		23		20		20		14		16		21	1	23		200
Bi	*Xenostrobus atratus*	1	1			1		2		2		1		2						2		12
C	*Gaetice depressus*	3		1		1				1		1		1	1	2	1	1				13
C	*Metopograpsus latifrons*			2		2			2					0		0		1	1			8
C	*Pagurus dubius*	0		0		0							1			0		0				1
Cn	*Diadumene lineata*					0		1		2				1		1				1		6
G	*Batillaria multiformis*	6		2		9		2		1		1		3		8		1		2		35

G	*Batillaria zonalis*	7		7		6	7		8		8		5		6	7	7	1	69
G	*Clithon faba*	1		3		1	2		0		0		1		1	3	2		14
G	*Clithon retropictus*	0				1	0		1	1	1				1		0		5
G	*Littoraria articulata*	3							0		0		1		1				5
G	*Lottia dorsuosa*	0		1		1			1		1				1	1			6
G	*Lunella coronata*	1		0			1						2		1	0	1		6
G	*Lunella granulata*					1			1		1								3
G	*Monodonta labio*	14	1	10		6	8	1	7		7		9		8	10	8	1	90
G	*Nipponacmea concinna*	1		1		0	2		2	1	2	1	0		1	1	2		14
G	*Nodilittorina radiata*					3			1		1		3		0				8
G	*Patelloida pygmaea*	1		3		1	0		1		1		0				0		7
G	*Pirenella incisa*			1			1	1	0		1		1		1	1	1		8
Ne	*Nemertea spp.*	4		0		2	2		0		0					0	2		10
Po	*Lepidozona spp.*	1					0		0		0		1		1		0		3
Sp	*Sipunculus nudus*	1		1		0	2						1		0	1	2		8
																	Total		**576**

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

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

Dec 2024 Sampling Zone TC2 Low tidal level (0.5 m above C.D.)

		1		2		3		4		5		6		7		8		9		10		
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Sub-total
Ba	*Balanus amphitrite*	0		3		3		0		2		2		0				0		3		13
Bi	*Anomalocardia squamosa*	1						2	1					2	1			1				8
Bi	*Barbatia virescens*	15		16		9		13	2	8		13		7	1	10		8		9		111
Bi	*Brachidontes variabilis*			0				0		2		2		0		3						7
Bi	*Glauconome chinensis*			3		2				3		1				1				1		11
Bi	*Isognomon isognomum*	0				3				1								0		3		7
Bi	*Saccostrea cucullata*			1		2						2								0		5
Bi	*Xenostrobus atratus*	1	1	3		2		2		0			1	2		0		1		2		15
C	*Gaetice depressus*					2				2		1				1			1			7
C	*Hemigrapsus penicillatus*	2			1			3				0		1		0		2				9
C	*Metopograpsus latifrons*	3								2						1		1				7

C	*Pagurus dubius*	2		3		1		3	1	0		0		1	2		0		1	2		1								17
Cn	*Diadumene lineata*	1		0						2		0				1	0			1										5
G	*Batillaria multiformis*	8		10		12		11		11		6			12		3			6		5								84
G	*Batillaria zonalis*			6		2				4		1										5								18
G	*Clithon retropictus*					1		0		0		0			0							2								3
G	*Littoraria articulata*	1	1	1		2						0			1				1			2								9
G	*Lottia dorsuosa*					2		0		1		2			0							1								6
G	*Lunella coronata*			3		1		3		3		0			3		1					1								15
G	*Lunella granulata*	2				11		2	1	8					2					1		1								28
G	*Monodonta labio*			2				3		2		0			3		1													11
G	*Nipponacmea concinna*	0				2		0				3			0		0			0		2								7
G	*Nodilittorina radiata*	0								3		2					2			0										7
G	*Patelloida pygmaea*			1				0		1					0		1													3
G	*Pirenella incisa*	2		0		1		1		1		1			1					0		1								8
Po	*Lepidozona spp.*	2		0		0		2		0		0			0		1			1		0								6
Sp	*Siphonosoma sp.*			0				1				0			1		1											1		4
Sp	*Sipunculus nudus*	1		1		0		1		0					1		1			1		0								6
																						Total								**437**

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

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

Dec 2024 Sampling Zone TC3 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
Bi	*Barbatia virescens*			2		0				2				3				0		3		12
Bi	*Brachidontes variabilis*	0						0								0				2		3
Bi	*Glauconome chinensis*	0		1		1		0		3	1			1		0		1		1		11
Bi	*Saccostrea cucullata*	31		33	2	30		33		31		25		26	2	21		30		31	2	277
Bi	*Xenostrobus atratus*	0		3		2		0		3		2		3		0		2		1		14
C	*Gaetice depressus*	0	1	2	2	2		0		1		1	1	2		0		3			1	10
C	*Metopograpsus latifrons*				1	5				2					1	1		1				12
C	*Pagurus dubius*	0		0		2		0						0		0		0		1		4
G	*Batillaria multiformis*	1		2		2	1	1		1		0		2		1	1	2	1			13
G	*Batillaria zonalis*	2	1		2	0		0		3	1					0		0		0	2	6
G	*Clithon oualaniensis*	1		1				1		1				1		1						6

G	*Clithon retropictus*	3			1		1		0						1		0				10
G	*Littoraria articulata*	1	1		1	2	1	1	2		3		1		1	1	2	1	1		20
G	*Lunella coronata*	2			5		1		2	1	1				1		3		1		18
G	*Lunella granulata*	1	1				1		3		2		1		1						10
G	*Monodonta labio*	26	11	1	14		26		18		12		9	1	26		8		15		155
G	*Nerita chamaeleon*		0		0								0		2		0		0		4
G	*Nerita polita*		2		1				1		4		2				1		4		15
G	*Nerita squamulata*				2												1				17
G	*Nipponacmea concinna*				2												2		2		8
G	*Nodilittorina radiata*	1	1				1				1		1		1						14
G	*Patelloida pygmaea*								1		1										7
G	*Pirenella incisa*	4	3		0		4		1		1		1		4		0				17
G	*Thais clavigera*				1												1				3
P	*Nereididae spp.*				2				3		1		2			2	2		2		13
P	*Perinereis sp.*		0						1		1		0						2		13
P	*Sabellidae imbricatus*	1	0		2		1		3		0	1	0		1		1		0		13
Pl	*Platyhelminthes*	3	0	1			3		1		3		0	1	3				0	1	13
																				Total	**718**

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

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

Dec 2024 Sampling Zone TC3 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	*Balanus amphitrite*	1		0		0		1		0		0		0				2		1		5
Bi	*Barbatia virescens*							2		0						1						3
Bi	*Brachidontes variabilis*			1				0		1		0						0		1		3
Bi	*Glauconome chinensis*	3		2				3		2		2			1	2		1		3		19
Bi	*Saccostrea cucullata*	22		20		22		21		22		20		18		15		19		22		201

Bi	*Xenostrobus atratus*	0		1		3				2		1		3		0						0								10
C	*Gaetice depressus*	3				2		2		0	1		1	1		1						3								14
C	*Metopograpsus latifrons*	0		2		2				3		2		2	1			0		1		0								13
G	*Batillaria multiformis*			6				1		1		6																		14
G	*Batillaria zonalis*	5				2		1	1	2				2		5						5								23
G	*Clithon faba*	0		2	1		1			2		1					1	0				0								8
G	*Clithon oualaniense*				1	1		0						2			1													5
G	*Clithon retropictus*			1				1		2			1																	5
G	*Littoraria articulata*	2				2				1	1			2		1		1				2								12
G	*Lottia dorsuosa*	1				0		2		2				0		0						1								6
G	*Lunella coronata*	3		0		1		0		2		0		1				0				3								10
G	*Lunella granulata*	2		4		1				1		4		1		3		5				2								23
G	*Monodonta labio*	8		5		13		12		11		5		13	1	6		7				8								89

G	*Nerita chamaeleon*		1	1		2	1		1		1		0			7
G	*Nerita lineata*	0	1		2		1				2		0		0	6
G	*Nerita polita*			1		2			1		0		1	1		6
G	*Nerita squamulata*		1	2			1		2		1					7
G	*Nipponacmea concinna*	2	1			0	0	1			0		2		2	8
G	*Nodilittorina radiata*	1	1	3	1	1	1		1		1		1		1	12
G	*Patelloida pygmaea*		3			0	3				0		1			7
G	*Pirenella asiatica*	1		0	0	1		1	0				1		1	5
G	*Pirenella incisa*	0	1	0	1	2	1		0	1	2		0		0	8
Ne	*Nemertea spp.*		1	1		0	1		1							4
P	*Sabellidae imbricatus*				1	0					2		0			3
Po	*Lepidozona spp.*		3	1	1	0	3		1				0			9
Sp	*Siphonosoma sp.*		1				1				2		1			5
Sp	*Sipunculus nudus*	2		3	2				3		2		1		2	15
																5
															Total	**6**
																5

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

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

Dec 2024 Sampling Zone TC3 Low tidal level (0.5 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	Balanus amphitrite	0		1				1		3		3		0				1		3		12
Bi	Barbatia virescens	14		11		12		15		11	2	11		17		12		14		15		134
Bi	Anomalocardia squamosa	1				0				1		1		1		0				0		4
Bi	Ruditapes philippinarum	2		0		2		0		1		2		2		2		0				11
Bi	Brachidontes variabilis	3		0				0		2				3				0		0		8
Bi	Glauconome chinensis	0		1		0			2	2				0		0		1				6
Bi	Saccostrea cucullata	1		0				2		0		2		1				0		0		6
Bi	Xenostrobus atratus	1		4		0								1		0		0		0		6
C	Gaetice depressus	1		0		1	1	0				3		1		1		0		1		9
C	Metopograpsus latifrons	1		0		0		0	1	3		2		1		0	1	0		0		9
C	Pagurus dubius	5		8		7		6		13		9		5		7		8		2		70

G	Batillaria multiformis	2	2	7		5		4		5	2		7		2		4		40
G	Batillaria zonalis	0	2	0		2				0	0		0		2		0		6
G	Clithon oualaniensis	3				1		0			3						3		10
G	Littoraria articulata		1	1		1		2		1			1		1		0		8
G	Lottia dorsuosa	0	1	0		2		0		0	0		0		1		1		5
G	Lunella coronata	11	9	6		11		10		11	11		6		9		7		91
G	Lunella granulata	1	5	1				3			0		1			1	0		12
G	Monodonta labio	1	2	0	1	2		3			1		0		0		3		13
G	Nipponacmea concinna	1	1			3		4		3	1				1				14
G	Patelloida pygmaea	1		2		1		1		2	1		2				2		12
G	Pirenella incisa	2		0						1	2		0						5
P	Nereididae spp.		2	0		2	1			1			0	1	2		1		10
P	Sabellidae imbricatus	0	0	1		0	1			0	0		1		0				3
Sp	Siphonosoma sp.	1	3	0	1		1	3			1		0	1	3		3		17
Sp	*Sipunculus nudus*	1	3	2		3		3		0	1	1	2		3		2		21
																	Total		**542**

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

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

Dec 2024	Sampling Zone ST	High tidal level (2.0 m above C.D.)																						
		1		2		3		4		5		6		7		8		9		10				
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Sub-total		
Ba	*Balanus amphitrite*	1		0		1		0		2		0		1		1		0				6		
Bi	*Barbatia virescens*			2			1	1				1				1				0		6		
Bi	*Brachidontes variabilis*			0						1										0		1		
Bi	*Glauconome chinensis*	3		1		3		1				1		3		2				1		15		
Bi	*Saccostrea cucullata*	24		30		24		24		26		24		24		16		22		15		229		

Bi	*Xenostrobus atratus*	2		0		2		0				0		2		0		0		0			6
C	*Gaetice depressus*	0		0		0		0				0		0		3		3		0			6
C	*Metopograpsus latifrons*			0			1		1	1							1			0			4
C	*Pagurus dubius*			2				3				3			1	1				1			11
Cn	*Diadumene lineata*	2		1		2		0		2		0	1	2				2		1			13
G	*Batillaria multiformis*	4		8		4		2		11		2		4		9		6		8			58
G	*Batillaria zonalis*	2				2		0		0		0		2		1		0					7
G	*Cellana toreuma*			2				3		3		1				1		1		2			13
G	*Clithon faba*	0				0		0		2		0		0		0		0					2
G	*Clithon retropictus*			0				0		1		0							1	0			2
G	*Littoraria articulata*	3		1		3		0		2		0						0		1			10
G	*Lottia dorsuosa*	1	1			1	1	2				2		1							1		10
G	*Lunella coronata*	3				3		3		1		3		3		2							18
G	*Lunella granulata*			2				0				0				0							2
G	*Monodonta labio*	17		15		17		9		15		9		17		15		11		15			140
G	*Nerita chamaeleon*	0		2		0		0				0		0				1		2			5
G	*Nerita polita*	1		3	1	1		2				2		1		2		0		3			16
G	*Nipponacmea concinna*	3		2		3		2		1		2		3		0		2		2			20
G	*Nodilittorina radiata*	1		2	1	1	1	1		0		1		1						2			11
G	*Patelloida pygmaea*							2				2				1		3					8
G	*Pirenella incisa*	0		2		0		2		0		2		0		1		2					9

P	*Sabellidae imbricatus*	2			2	1	0	1	2	0	0		8
Po	*Lepidozona spp.*		0			0	1	0			2	0	3
Sp	*Sipunculus nudus*		3			0		0		2	3	3	11
Sp	*Siphonosoma sp.*	0	3		0	1	2	1	0		1	3	11
												Total	**661**

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

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

Dec 2024	Sampling Zone ST	Mid tidal level (1.5 m above C.D.)																						
		1		2		3		4		5		6		7		8		9		10				
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Sub-total		
Bi	*Barbatia virescens*	2				1		1		1		1		2				1		2		11		
Bi	*Glauconome chinensis*	0				0		0		1		0						0		0		1		
Bi	*Brachidontes variabilis*	0		3		2				3						3		2		0		13		
Bi	*Saccostrea cucullata*	25	1	23		26		19		16		19		21		23		25		25		223		
Bi	*Xenostrobus atratus*	0	1	3		0		3		1		3		1		3		0		0		15		
C	*Gaetice depressus*	2		1		1				2						1		1		2		10		
C	*Metopograpsus latifrons*	3				1												1		3		8		
C	*Pagurus dubius*	1		1											1		1			1		5		
G	*Batillaria multiformis*	1	1	2				3		2		3		2		1				1		16		
G	*Batillaria zonalis*	1		0				1				1				0				1		4		
G	*Chlorostoma argyrostomum*	0		2	1	0		3		2	1	3		3	1	1		0		0		17		
G	*Clithon faba*	0		1		0		1		0		1				0		0		0		3		

G	*Clithon oualaniense*	2			1			2	1	2		2									10
G	*Clithon retropictus*	0		0		1		0		3		0		1	0		1	0			6
G	*Littoraria articulata*	2				0		0		2		0		3			0	0			7
G	*Lottia dorsuosa*	1		1		1		1				1			1		1	1			8
G	*Lunella coronata*	0				2				2				1				0			5
G	*Lunella granulata*	2				1		1				1		3			1	2			11
G	*Monodonta labio*	13		6		161		7		12		7		8	6		11	12			243
G	*Nerita chamaeleon*	2		0	1	0	2	0		1		0		0	0		0	2			8
G	*Nerita lineata*	1				2		2				2	1	0			2	1			11
G	*Nerita squamulata*	1																1			2
G	*Nipponacmea concinna*		1	1										1	1						4
G	*Nodilittorina radiata*	3			1					2								3			9
G	*Patelloida pygmaea*			3											3						6
G	*Pirenella incisa*	3	1					1		2		1		1		2		3			14
Ne	*Nemertea spp.*	2		4			2	3	2			3			4			3			23
P	*Sabellidae imbricatus*	3		1				0		2		0		1	1			3			11
Po	*Lepidozona spp.*			2		2		0				0		1	2		2				9
Sp	*Siphonosoma sp.*	*1*		2				2		2		2		3	2			1			15
Sp	*Sipunculus nudus*	0		0		0		1		0		1		3	0		0	0			5
																		Total			**733**

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

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

Dec 2024 Sampling Zone ST Low tidal level (0.5 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	*Balanus amphitrite*	1				1						1		5				5		1		14
Bi	*Anomalocardia squamosa*	3				0				0		3								0		6
Bi	*Barbatia virescens*	7				2				7		7		7				7		2		39
Bi	*Brachidontes variabilis*			2		1		1		2						1				1		8
Bi	*Glauconome chinensis*	0		2		3		1		1		0		1						3		11
Bi	*Saccostrea cucullata*	2		2		1				0	1	2		1				1		1		11
Bi	*Xenostrobus atratus*			3		0				2				1				1		0		7
C	*Gaetice depressus*	3		2				0		1	2	3				0			1			12
C	*Hemigrapsus penicillatus*	0		1			1					0		0		2		0		1		5
C	*Metopograpsus latifrons*			1		1				2				0				0		1		5
C	*Metopograpsus quadridentatus*	0		2		1		0				0				0				1		4

Cn	*Diadumene lineata*	0		3		2		0		1		0			0						6
G	*Batillaria multiformis*					3		1							1			1	3		9
G	*Batillaria zonalis*	15		14		21		15		14		15		16	15		11		21		157
G	*Chlorostoma argyrostomum*			0		1		2		0				2	2	1	2		1		11
G	*Clithon faba*	3		1		3		1		3		3		0	1		0		3		18
G	*Lottia dorsuosa*			2				1						1	1		1				6
G	*Lunella coronata*	0		1		1		1		2		0		0	2		0		1		8
G	*Lunella granulata*	2		1		1		1		1		2		1	1				2		12
G	*Monodonta labio*	9		11		21	1	7		7		9		8	5		14		22		114
G	*Nerita lineata*	3		3		0		0		3	2	3		1	0		1		0		16
G	*Nerita squamulata*			3		0		0		0				2	0		2		0		7
G	*Nipponacmea concinna*	2				1						2							1		6
G	*Nodilittorina radiata*			1		4		1						4			4		4		18
G	*Patelloida pygmaea*	1				1						1			1				1	1	6
G	*Pirenella incisa*	1		0						0		1					1				3
Ne	*Nemertea spp.*	2				0		0		2		2			0				0		6
P	*Sabellidae imbricatus*											3		0	3		0				6
Po	*Lepidozona spp.*							1		0				1	1		1				4
Sp	*Siphonosoma sp.*							2		3				1	2		1				9
Sp	*Sipunculus nudus*	0		0		3		0		1		0		3	0		3				10
																			Total		**554**

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

End of the report