

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. (March 2025)



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 in December 2024)

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



Trash gill net at TC3 (March 2025)



Trash at ST (March 2025)

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).



Photographic records of horseshoe crabs, *Tachypleus tridentatus* in March 2025

Figure 3.1 (Cont'd) Examples of photographic records of horseshoe crabs.

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

	TC1	TC2	TC3	ST
Search duration (hr)	2	2	3	3
<i>Carcinoscorpius rotundicauda</i>				
No. of individuals				
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
<i>Tachypleus tridentatus</i>				
No. of individuals	0	0	1	3
Mean prosomal width (mm)	\	\	44	54
Max. prosomal width (mm)	\	\	44	62
Min. prosomal width (mm)	\	\	44	46
Search record (ind. hr-1 person-1)	0	0	0.33	1.0

March 2015 - ST



June 2017 – TC2



(Female)

June 2017 – TC3



(Male)



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



Dead horseshoe specimen
March 2025



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

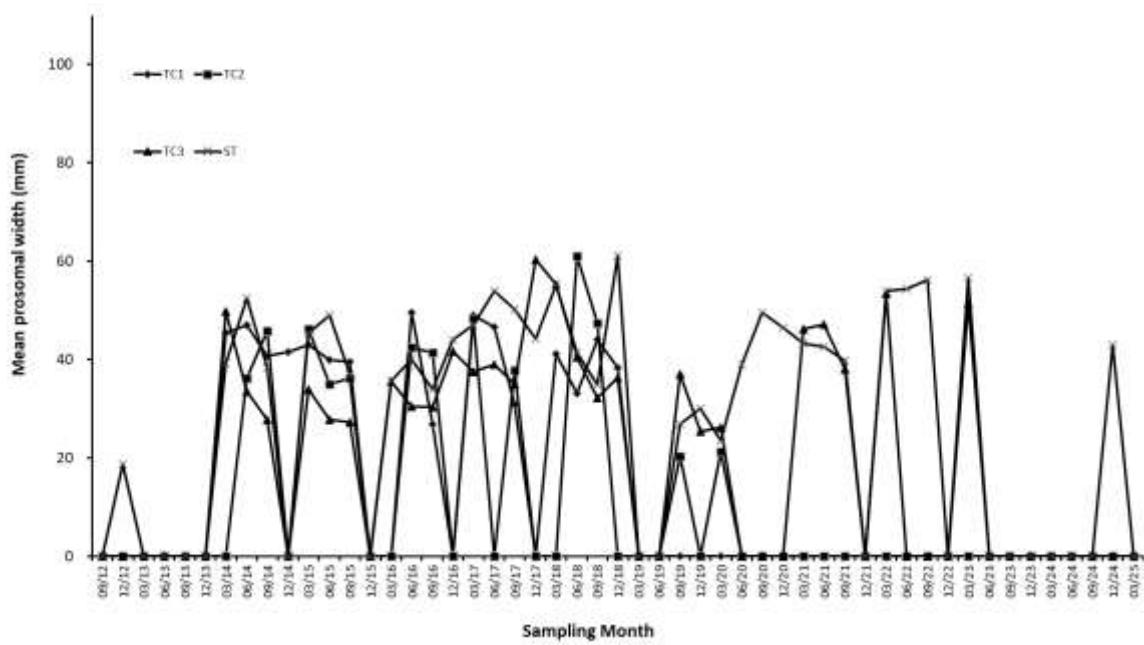
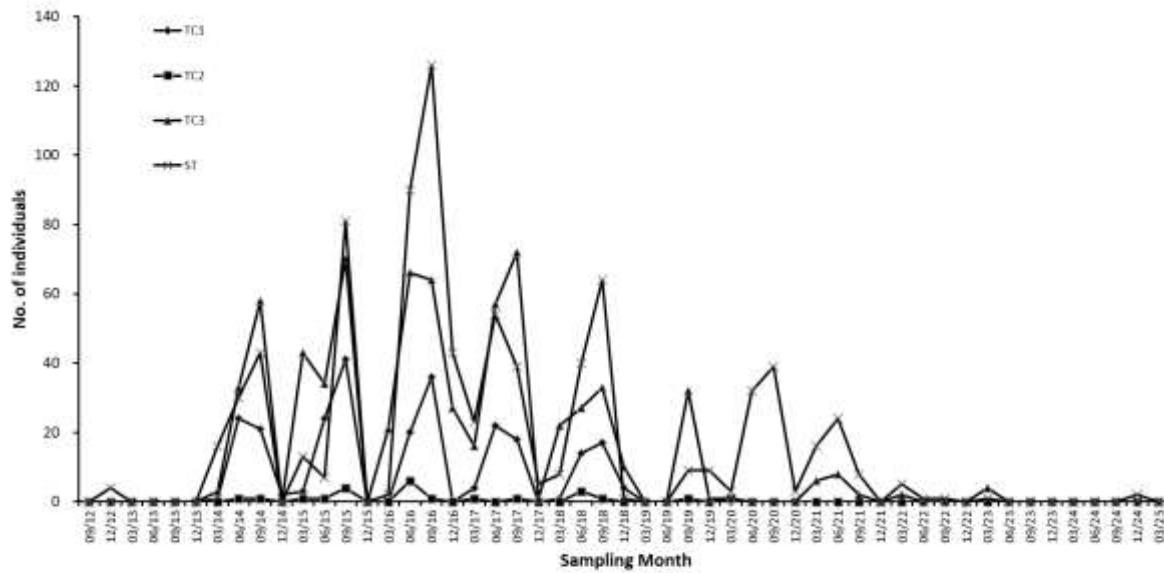


Figure 3.5 Changes of number of individuals mean prosomal width and search record of horseshoe crab *Carcinoscorpius rotundicauda* in every sampling zone along the sampling months

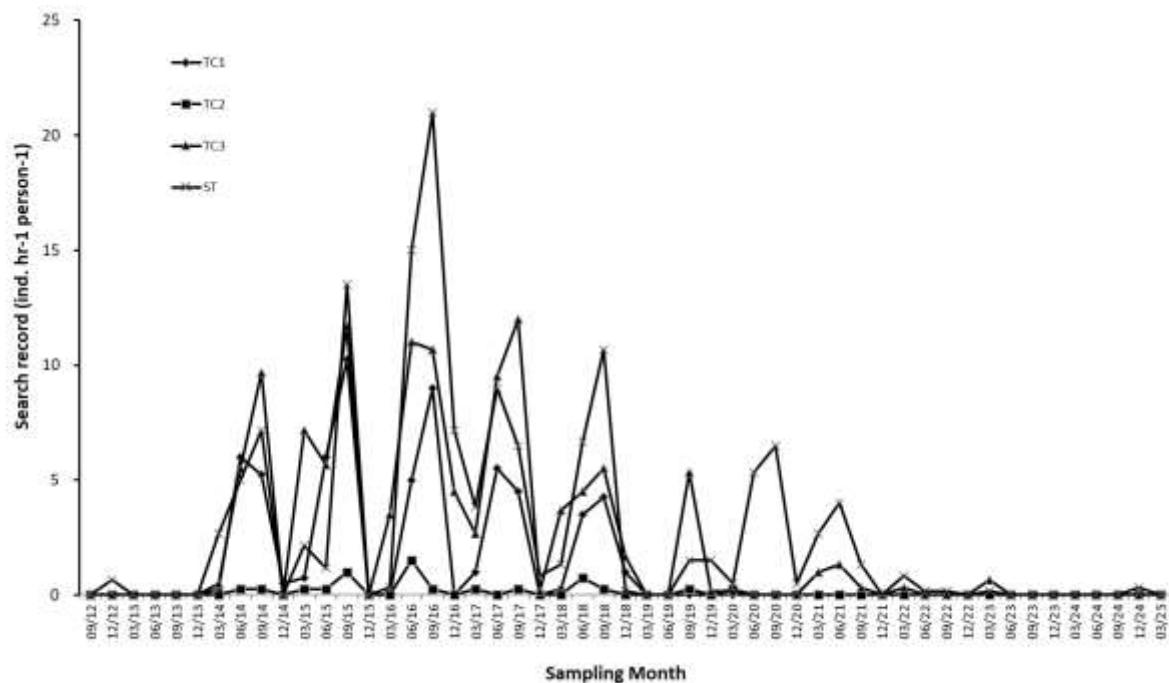


Figure 3.5 (Cont'd) Changes of number of individuals mean prosomal width and search record of horseshoe crab *Carcinoscorpius rotundicauda* in every sampling zone along the sampling months

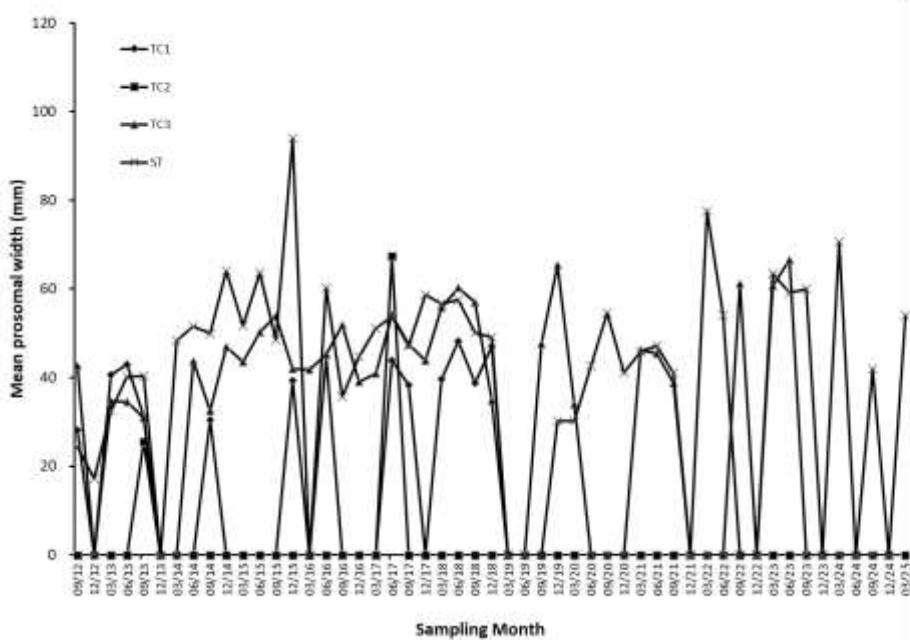
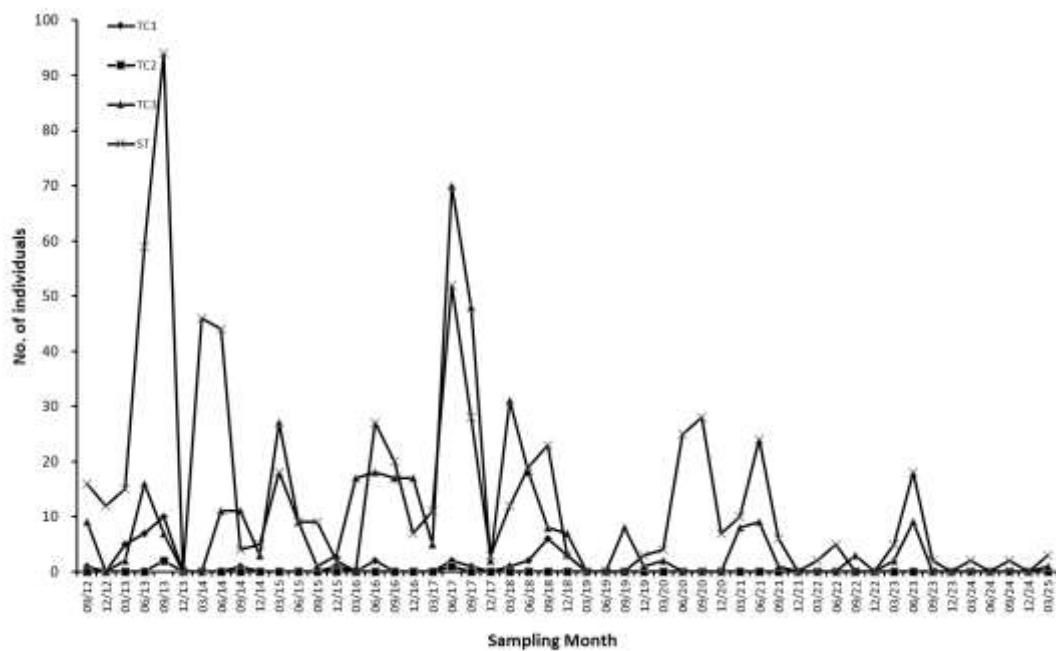


Figure 3.6 Changes of number of individuals mean prosomal width and search record of horseshoe crab *Tachylepus tridentatus* in every sampling zone along the sampling months

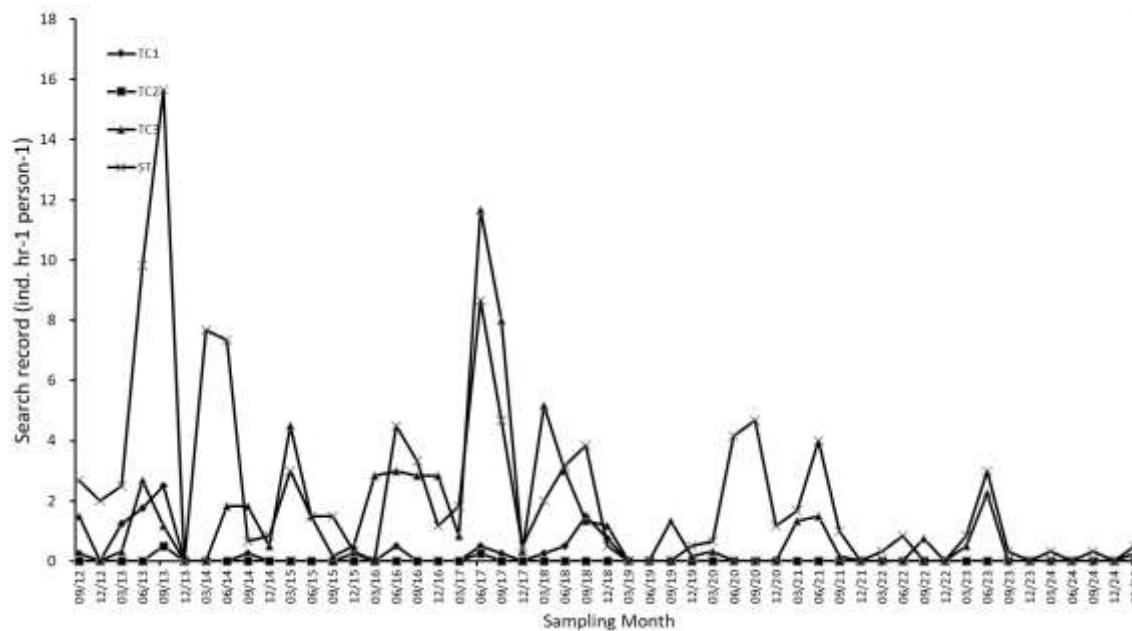


Figure 3.6 (Cont'd) Changes of number of individuals mean prosomal width and search record of horseshoe crab *Tachypleus tridentatus* in every sampling zone along the sampling months

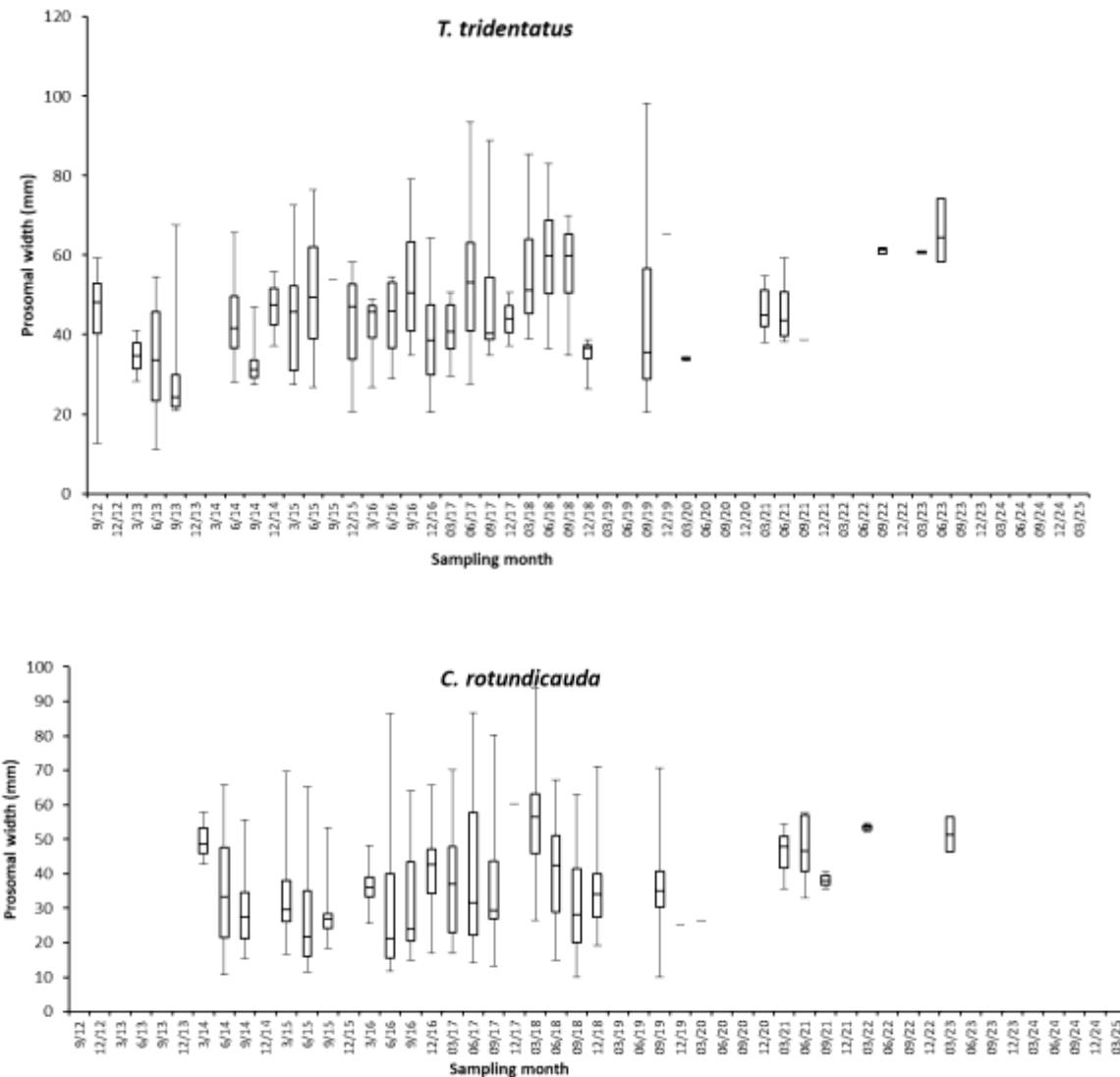


Figure 3.7 Box plot of prosomal width of horseshoe crab in the sampling zone TC3 along the sampling months. (The box represents 50% of the sample (upper to lower quartile) with a middle line showing the median value. The upper whisker and lower whisker showed the 25% of sample above upper quartile and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

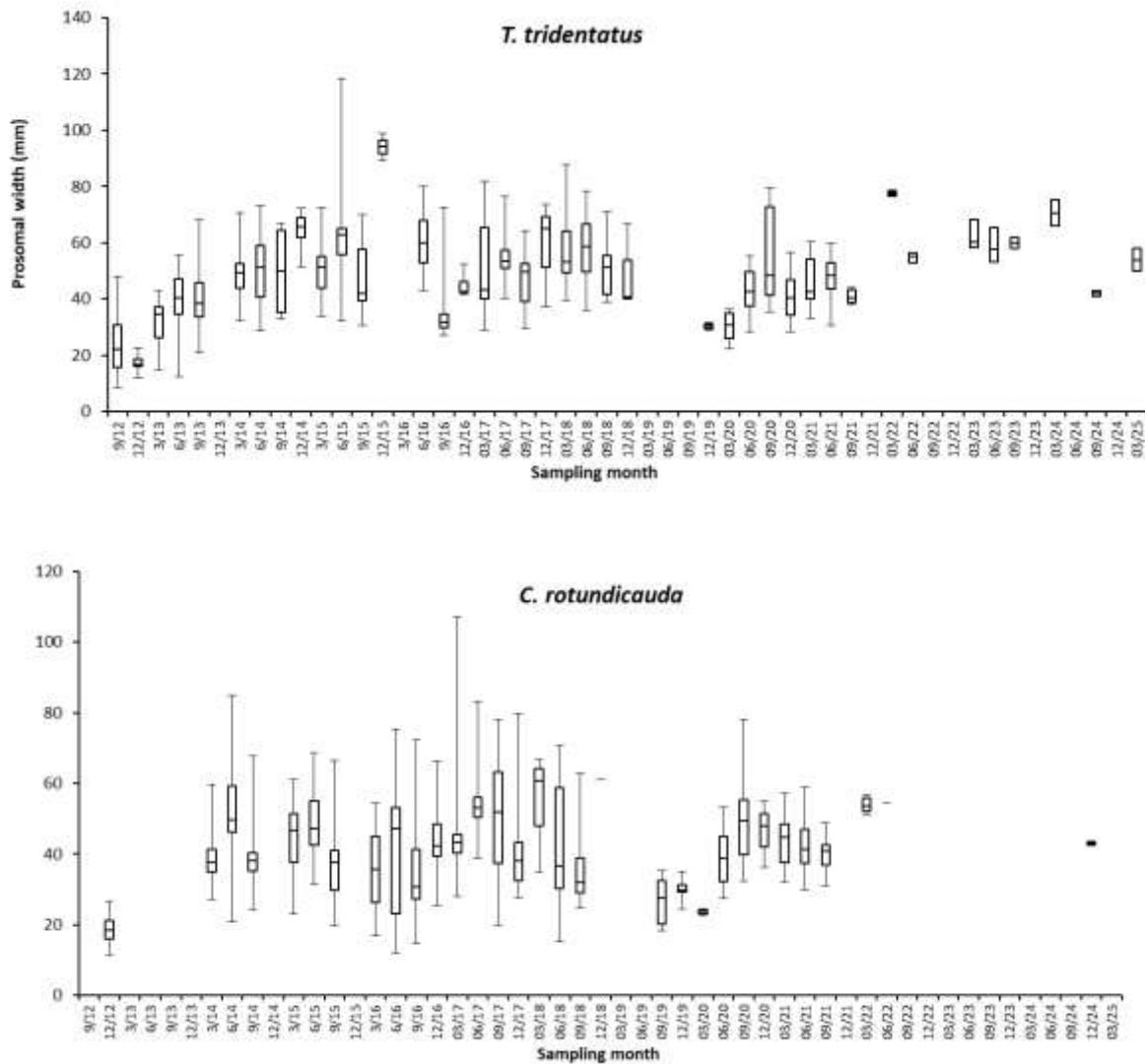


Figure 3.8 Box plot of prosomal width of horseshoe crab in the sampling zone ST along the sampling months. (The box represents 50% of the sample (upper to lower quartile) with a middle line showing the median value. The upper whisker and lower whisker showed the 25% of sample above upper quartile and 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 (left) and *Zostera japonica* (right) in ST June 2024



Halophila ovalis in TC3, September 2024



Seagrass bed (*Zostera japonica*) at ST, March 2025



Figure 3.10 Photographic records of seagrass beds in 2024 and 2025 survey.



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



Photo shown disappearance of seagrass bed in December 2024



Photo shown seagrass bed, *Zostera japonica*, in March 2025

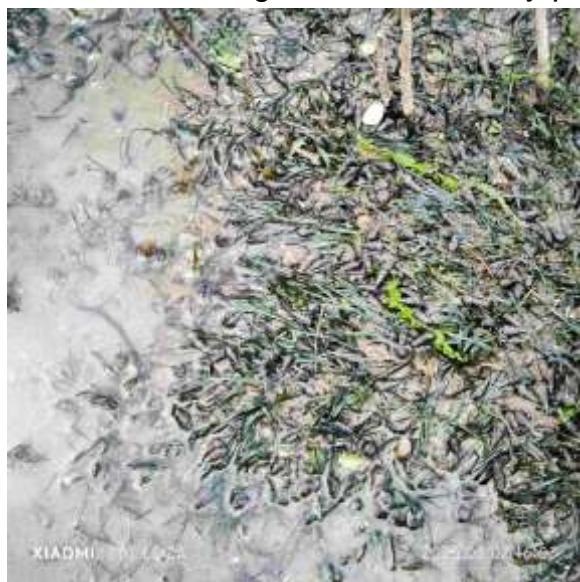


Figure 3.10 (Cont'd) Photographic records of seagrass beds in 2024 and 2025 survey

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

Sampling zone	TC3	ST	ST
	<i>Halophila ovalis</i>	<i>Halophila ovalis</i>	<i>Zostera japonica</i>
Number of patches	0	0	1
Total area (m²)	0	0	25
Average area (m²)	0	0	25

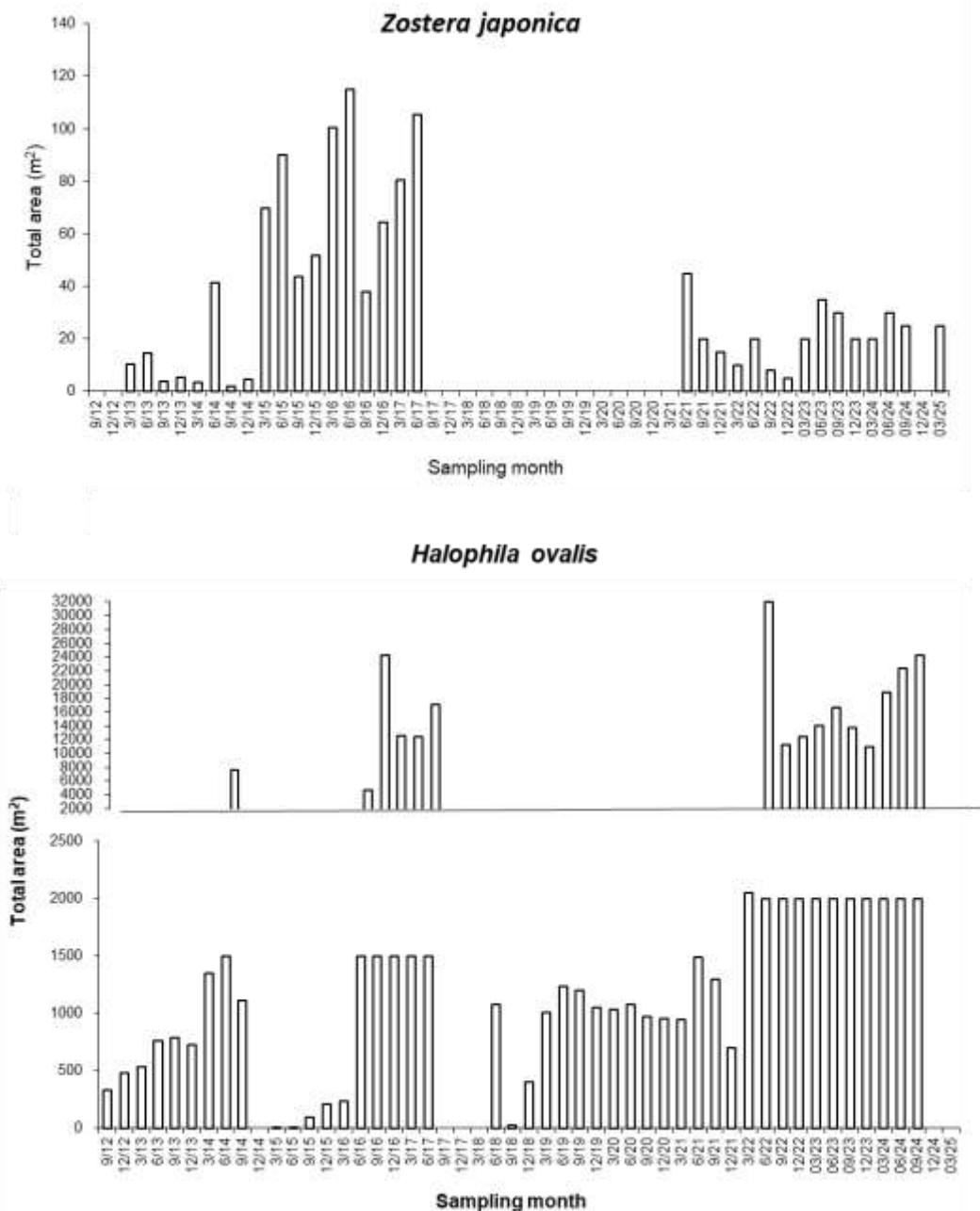


Figure 3.11 Temporal changes of estimated total area of seagrass beds in ST.

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.



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, it is partially regenerated at ST in March 2025.

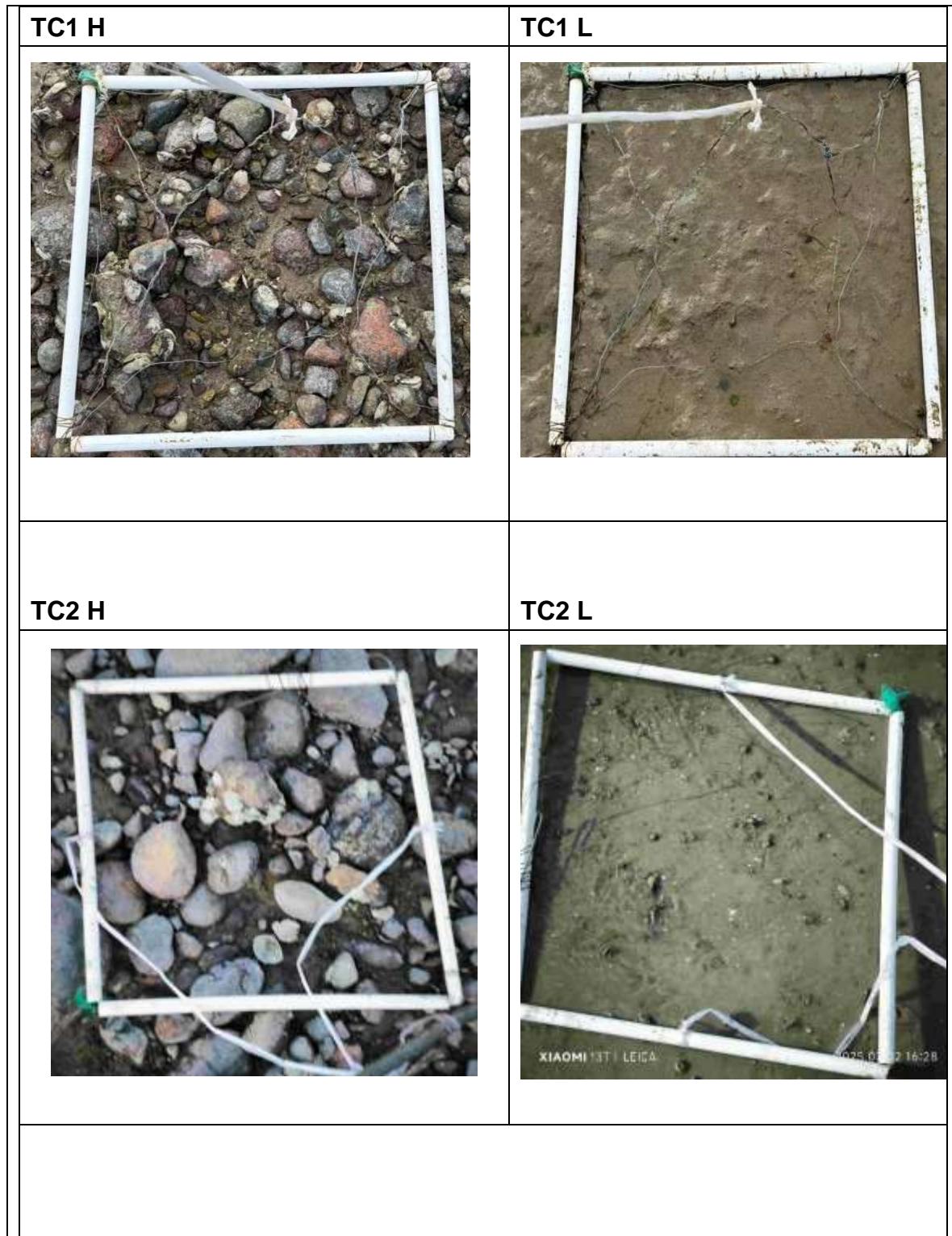


Table 3.3. Relative distribution (%) of types of substratum along the horizontal transect at every tidal level and in every sampling zone.

Sampling zone	Tidal level	Percentage		
		Gravels and Boulders	Sands	Soft mud
TC1	H	80	20	0
	M	10	85	5
	L	0	10	90
TC2	H	85	15	0
	M	10	85	5
	L	0	5	95
TC3	H	90	5	5
	M	10	10	80
	L	0	5	95
ST	H	90	10	0
	M	10	85	5
	L	2	8	90

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 March 2025 (H: 2.0 m above C.D.; M: 1.5 m above C.D.; L: 1.0 m above C.D.)





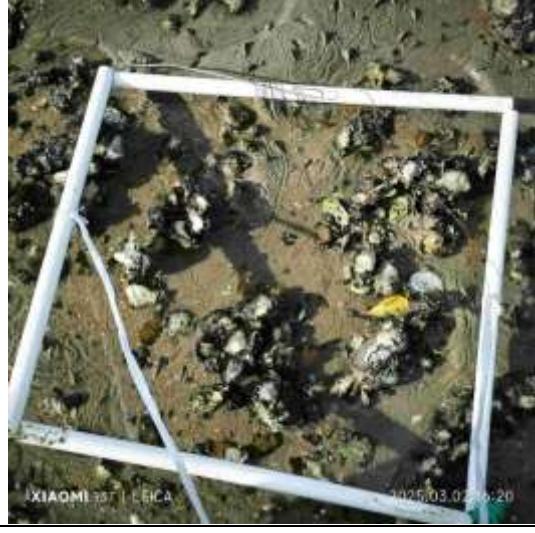
TC3 H	TC3 L
	
	

Figure 3.13.(Cont'd) Examples of photographic records of quadrat for intertidal soft shore community survey in March 2025 (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
<u>Mar 2025</u>				
Mollusca	6485	87.6	216	32
Arthropoda	519	7.0	17	6
Annelida	98	1.3	3	3
Sipuncula	173	2.3	6	2
Nemertea	46	0.6	2	1
Cnidaria	65	0.9	2	1
Platyhelminthes	15	0.2	1	1
Total	7401			

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		Density		Density		Density	
		% (ind. m ⁻²)	TC2	% (ind. m ⁻²)	TC3	% (ind. m ⁻²)	ST	% (ind. m ⁻²)	
Mollusca	1577	88.2	210	1496	84.4	199	1755	89.6	234
Arthropoda	124	6.9	17	208	11.7	28	85	4.3	11
Annelida	38	2.1	5	0	0.0	0	40	2.0	5
Sipuncula	27	1.5	4	23	1.3	3	58	3.0	8
Nemertea	0	0.0	0	13	0.7	2	6	0.3	1
Cnidaria	21	1.2	3	32	1.8	4	0	0.0	0
Platyhelminthes	0	0.0	0	0	0.0	0	15	0.8	2
Sub-total	1787			1772		1959		1883	

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	<i>Saccostrea cucullata</i>	106	39	39
	G	<i>Monodonta labio</i>	56	21	60
Mid	Bi	<i>Saccostrea cucullata</i>	79	32	32
	G	<i>Monodonta labio</i>	48	19	51
	G	<i>Batillaria zonalis</i>	32	13	64
Low	G	<i>Batillaria multiformis</i>	41	21	21
	G	<i>Nodilittorina radiata</i>	38	19	40
	Bi	<i>Barbatia virescens</i>	36	18	58

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	<i>Saccostrea cucullata</i>	97	35	35
	G	<i>Monodonta labio</i>	57	21	56
	G	<i>Batillaria multiformis</i>	40	141	197
Mid	Bi	<i>Saccostrea cucullata</i>	76	33	33
	G	<i>Monodonta labio</i>	40	16	49
	G	<i>Batillaria zonalis</i>	34	14	63
Low	Bi	<i>Barbatia virescens</i>	44	23	23
	G	<i>Batillaria multiformis</i>	31	16	39

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	<i>Saccostrea cucullata</i>	112	40	40
	G	<i>Monodonta labio</i>	58	21	61
Mid	Bi	<i>Saccostrea cucullata</i>	102	39	39
	G	<i>Monodonta labio</i>	51	19	58
Low	Bi	<i>Barbatia virescens</i>	58	25	25
	G	<i>Lunella granulata</i>	33	14	39
	G	<i>Batillaria multiformis</i>	34	14	53

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	<i>Saccostrea cucullata</i>	96	32	32
	G	<i>Monodonta labio</i>	52	17	49
Mid	Bi	<i>Saccostrea cucullata</i>	84	34	34
	G	<i>Monodonta labio</i>	45	18	52
Low	G	<i>Batillaria zonalis</i>	55	27	27
	G	<i>Lunella granulata</i>	38	18	45

Bi = Bivalve, G =

Gastropod



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

Sampling zone	Tidal	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	

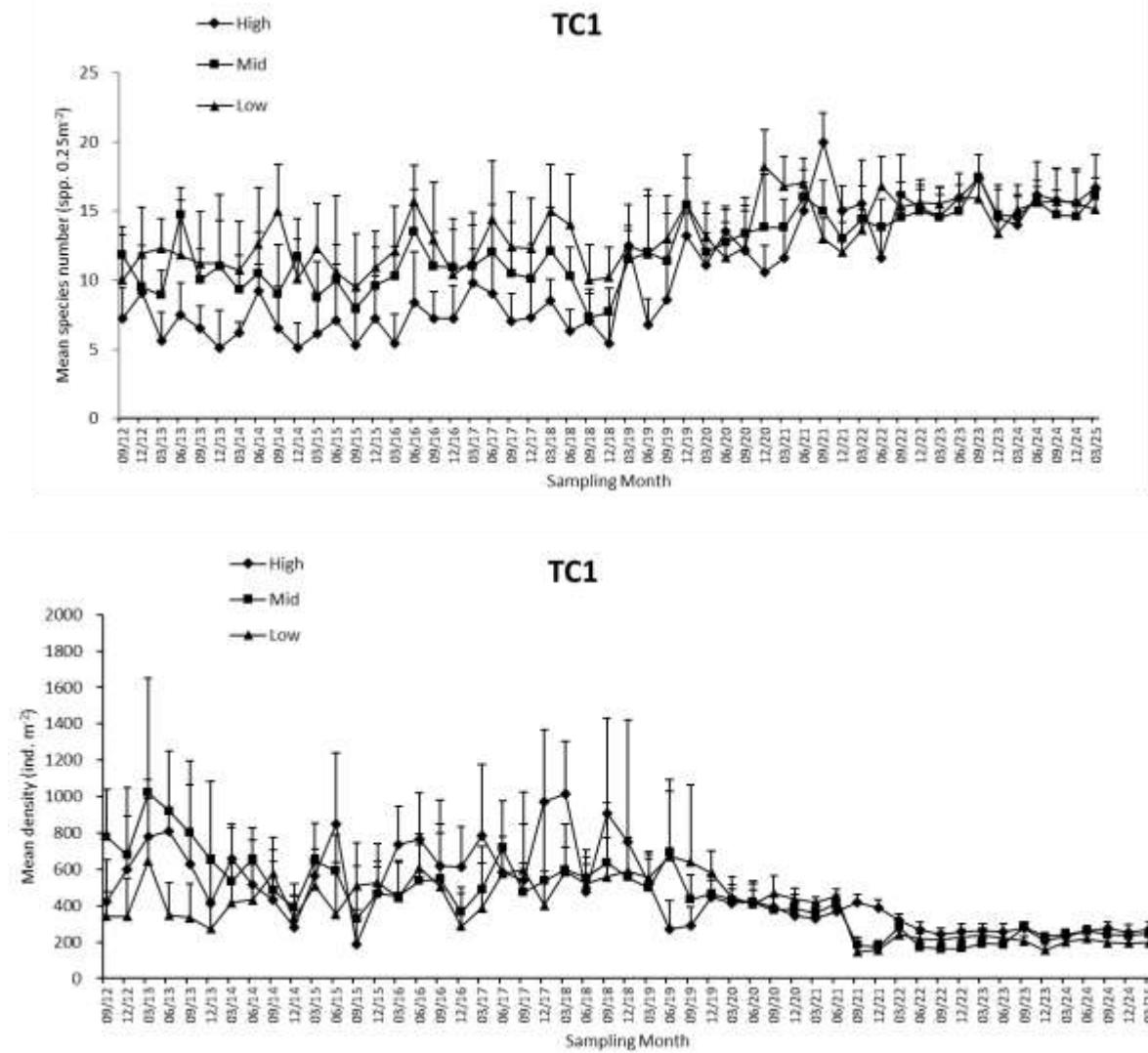


Figure 3.14 Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC1

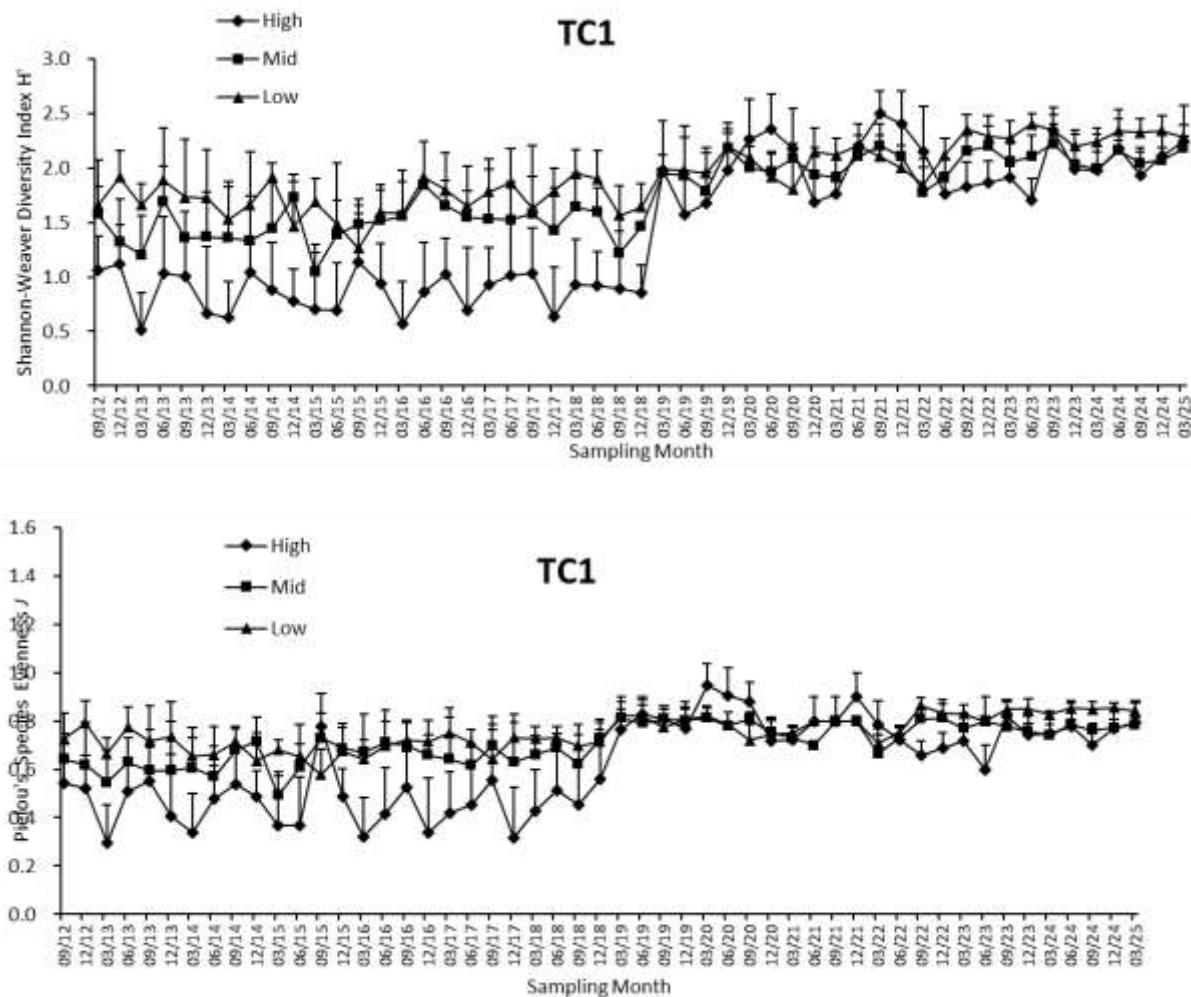


Figure 3.14(Cont'd) Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC1

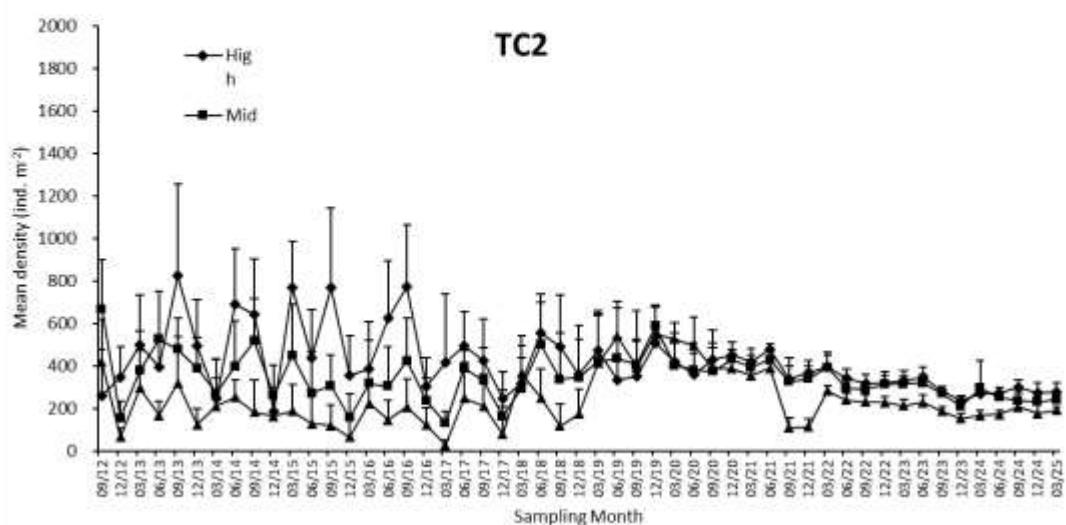
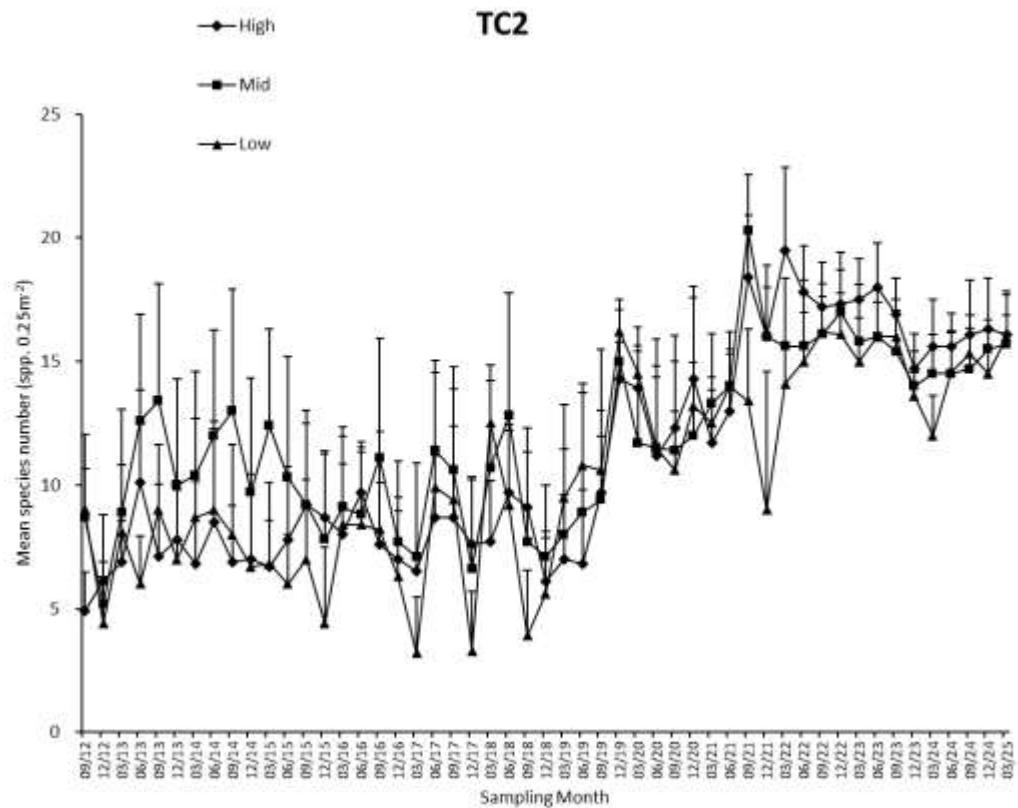


Figure 3.15 Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC2.

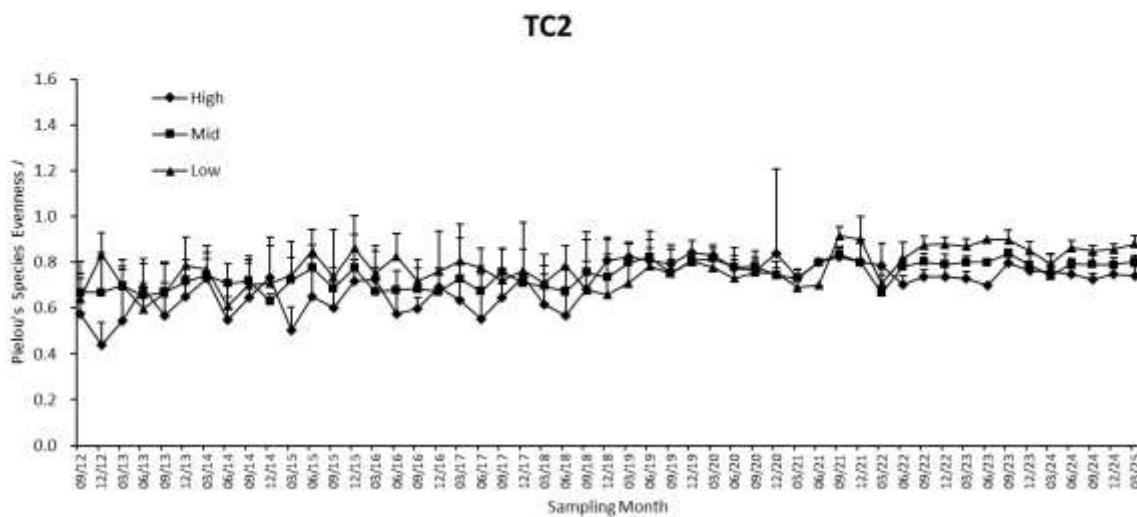
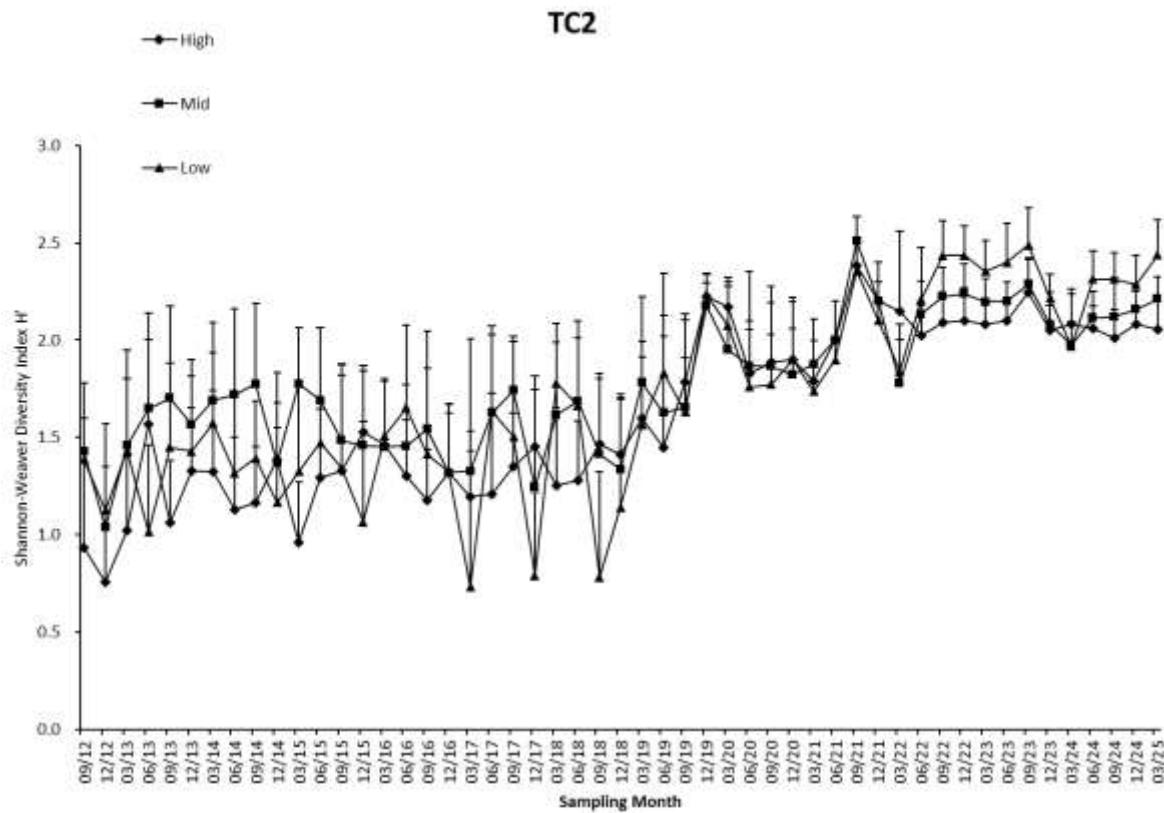


Figure3.15 (Cont'd) Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC2.

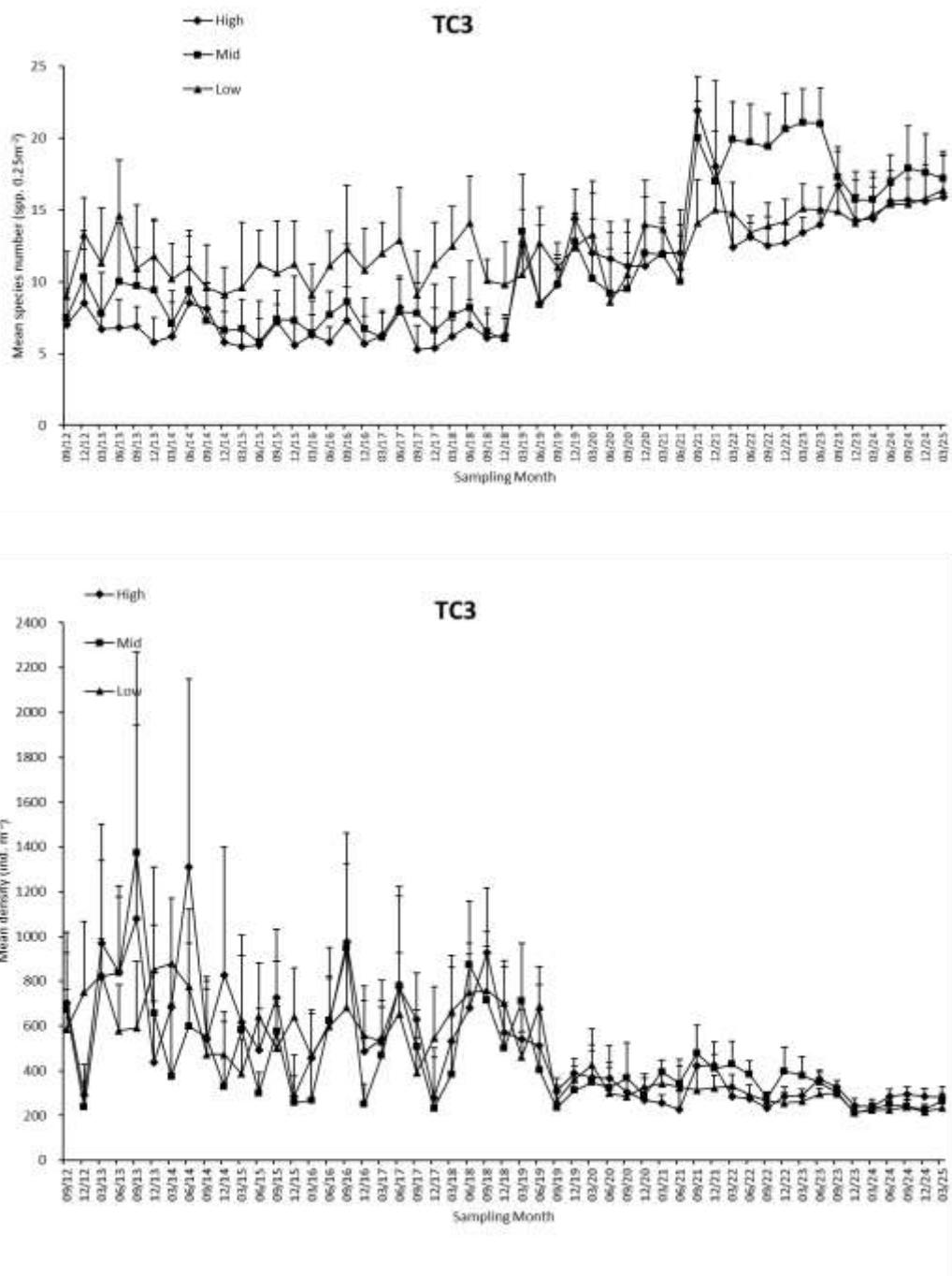


Figure 3.16 Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC3.

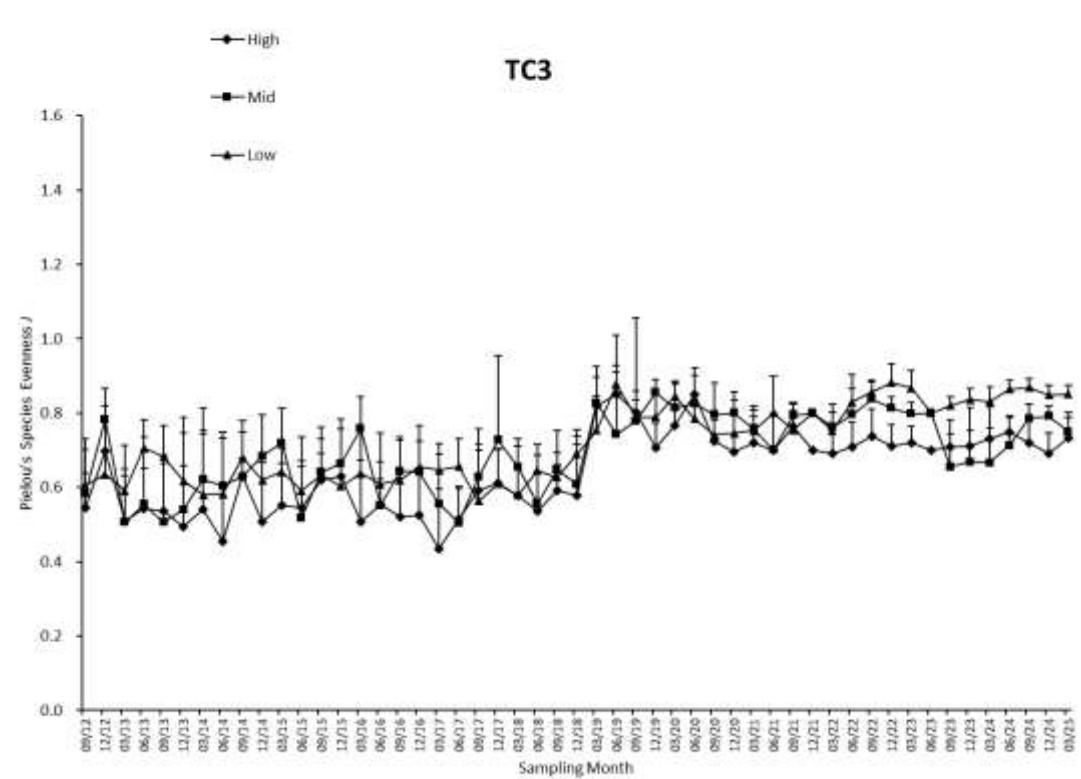
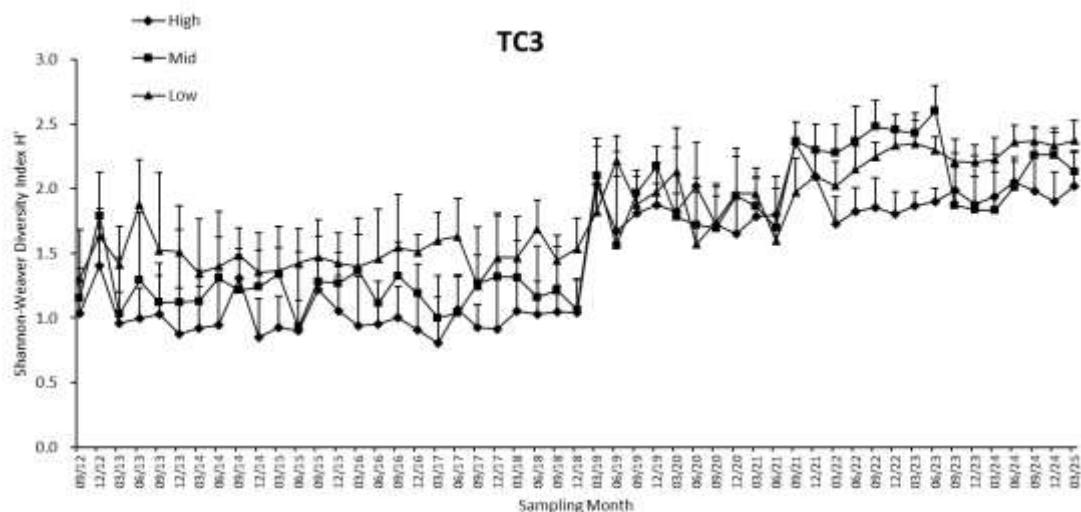


Figure 3.16 (Cont'd) Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC3.

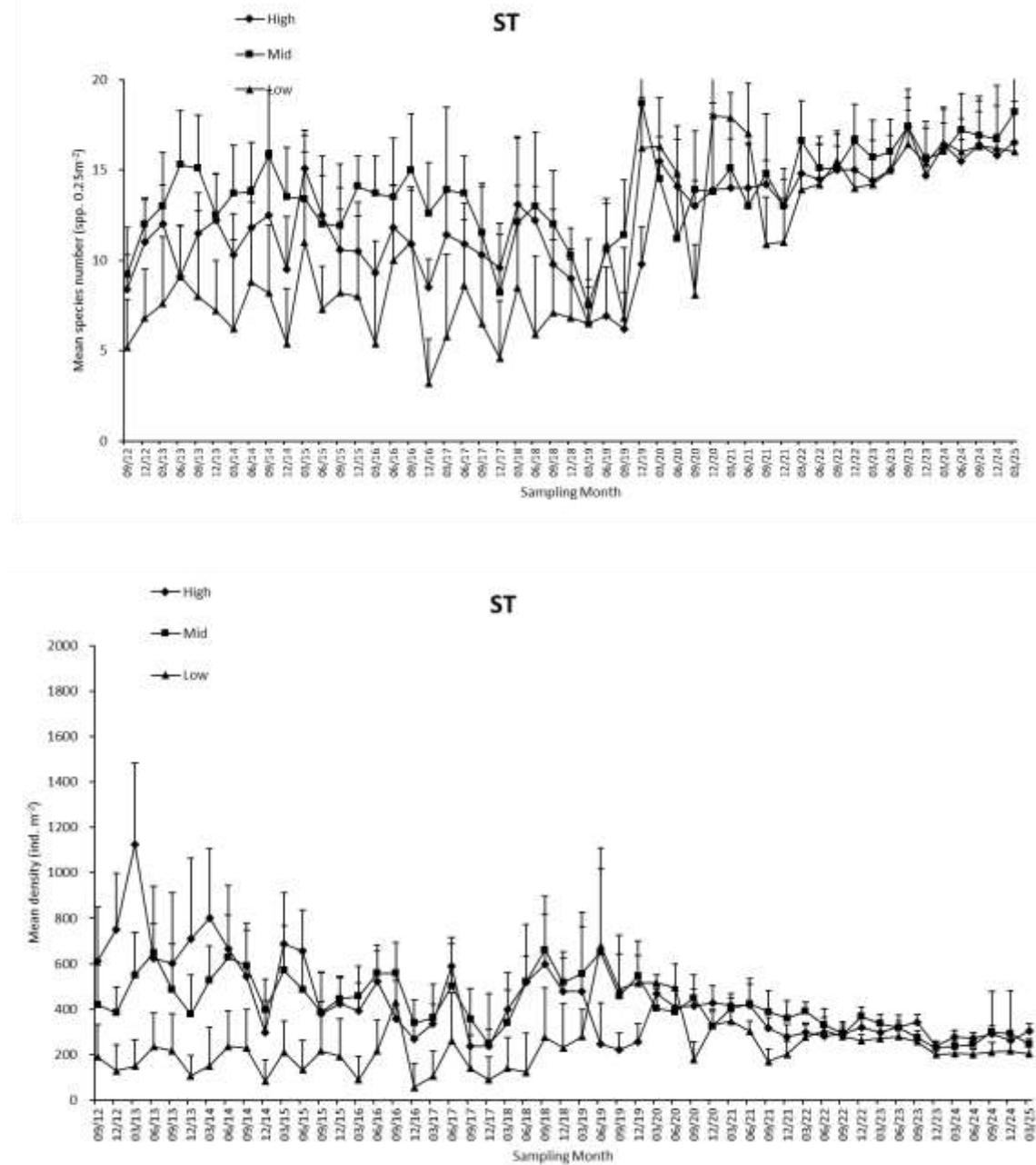


Figure 3.17 Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone ST.

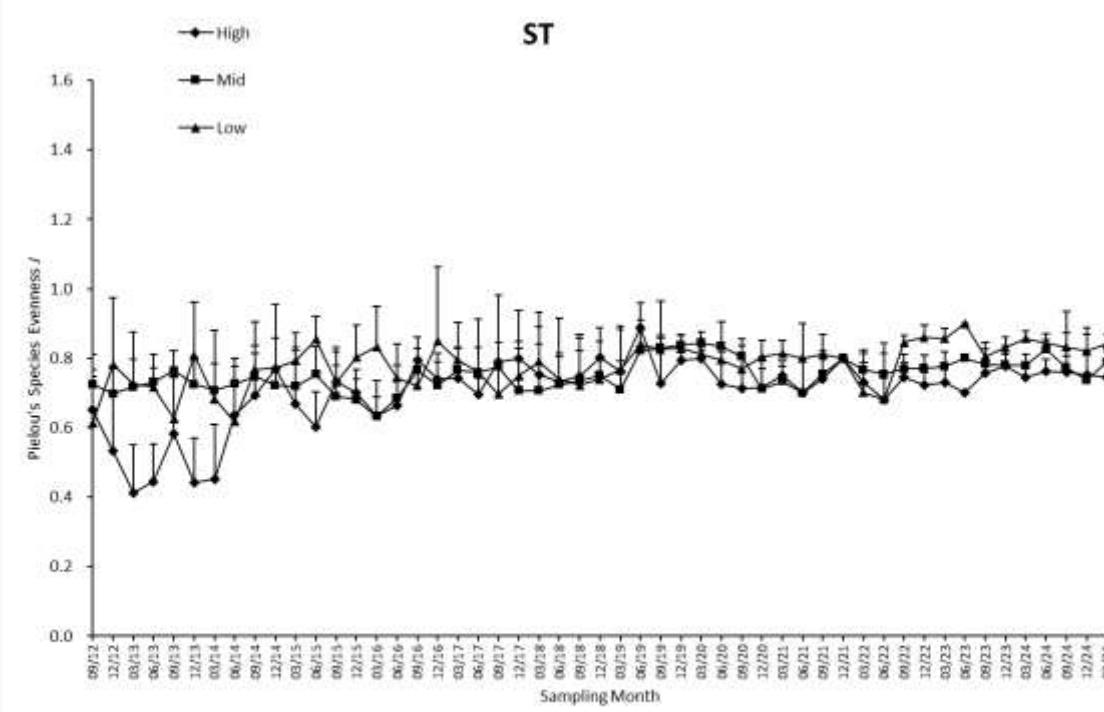
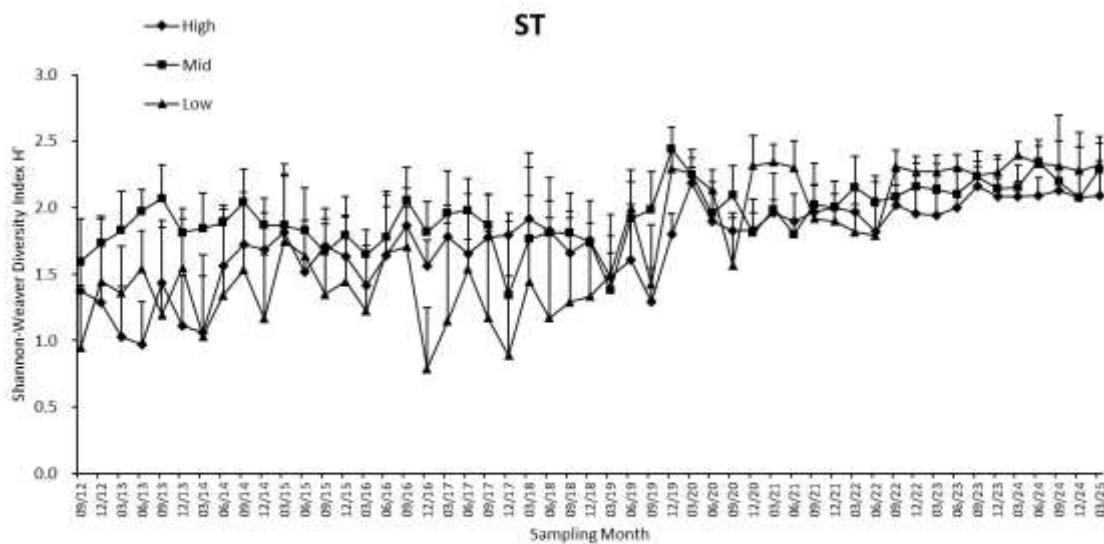


Figure 3.17(Cont'd) Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone ST.



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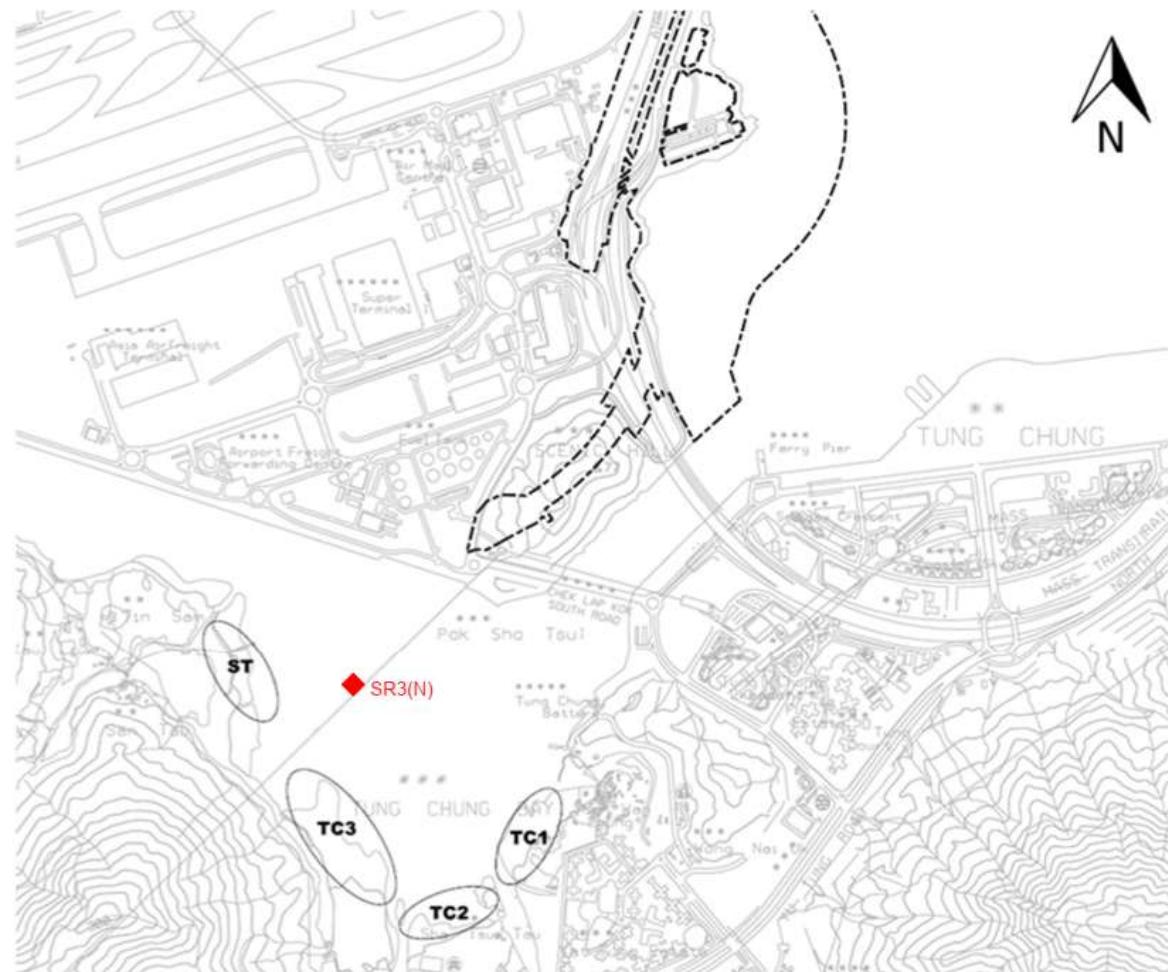
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Annex I. Location of sampling zones (map from ATKINS China Ltd.)



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

No.	Sub.	GPS coordinate	Ind. # / Prosomal width (mm)	Ind. # & Prosomal width (mm)
		<u>Sampling site TC1</u> (Search hour = 2 hrs)	<i>Carcinoscorpius rotundicauda</i>	<i>Tachypleus tridentatus</i>
		No record		
		No. of ind.		
		<u>Sampling site TC2</u> (Search hour = 2 hrs)	<i>Carcinoscorpius rotundicauda</i>	<i>Tachypleus tridentatus</i>
		No record		
		No. of ind.		
		<u>Sampling site TC3</u> (Search hour = 3 hrs)	<i>Carcinoscorpius rotundicauda</i>	<i>Tachypleus tridentatus</i>
1	M	22°17'00.3"N 113°55'42.4"E	0	1 44
		No. of ind.	0	1
		<u>Sampling site ST</u> (Search hour = 3 hrs)	<i>Carcinoscorpius rotundicauda</i>	<i>Tachypleus tridentatus</i>
1	M	22°17'13.9"N 113°55'33.4"E	0	1 62
2	M	22°17'12.8"N 113°55'33.4"E	0	1 46
3	M	22°17'12.8"N 113°55'33.4"E		1 54
		No. of ind.	0	3

Remark: Ind. #: number of Individuals (individuals in a group are shown in 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 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)

25 40-60 22°17'010"N 113°55'032"E
area at tidal level 2.0 m above C.D.

A horizontal strand of seagrass bed nearby the seaward side of mangrove

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

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

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

time

Mar 2025 Sampling Zone TC1

High tidal level (2.0 m above C.D.)

Gp	Taxon	Sampling Points										Sampling Points				Sampling Points				Sub-total
		1	2	3	4	5	6	7	8	9	10	C	Q	C	Q	C	Q	C	Q	
Ba	<i>Balanus amphitrite</i>			3	2			1	1	1	1	0							9	
Bi	<i>Barbatia virescens</i>	0		2	1	0	1	2	0	1	1	3	1						11	
Bi	<i>Brachidontes variabilis</i>	1	0	1	1			2				0				2			7	
Bi	<i>Glaucome chinensis</i>	0		2	0	0		2	1	1	1					0			7	
Bi	<i>Saccostrea cucullata</i>	2	3	2	3	2		2		26		33		23					265	
		4	0	4	0	8	6	1												
Bi	<i>Xenostrobus atratus</i>	0			0	2	1	1	2	2					1				9	
C	<i>Gaetice depressus</i>	1		3	1	2		2	0	1					2				14	
C	<i>Metopograpsus latifrons</i>	1		3			2	3	1	0	3				0				13	
C	<i>Pagurus dubius</i>	3	0	0		3	1	1	0	0	0				0				8	
G	<i>Batillaria multiformis</i>		1	2	3		2	3	2	3	0				0				16	
G	<i>Batillaria zonalis</i>	1	3	1	1	2		0		2	1	1	1	1					14	
Cn	<i>Diadumene lineata</i>	1	0		1			3	3	3	0	1	1	1					10	
G	<i>Cellana toreuma</i>		2			1	2	3	1	2		1	0		1				12	
G	<i>Chlorostoma argyrostomum</i>	0	3	1	0	4		1	1	2		1	1	0					14	
G	<i>Clithon faba</i>	1	1	2	1	3	1	0	2	0		1	1	1					14	



G	<i>Littoraria articulata</i>	0		2	0	2	2	1	1	2	1	0		11
G	<i>Lottia dorsuosa</i>	0			0	0	1	2	1	0	1		0	5
G	<i>Lottia luchuana</i>	1	1	1	3	1				1	1	1	1	12
G	<i>Lunella coronata</i>		1	0		1	3	1	0	3	1	2	0	12
G	<i>Lunella granulata</i>	1	1		1	0	0	1	0	0	1			5
G	<i>Monodonta labio</i>	1	1	1	1	1	1	1	1	13	14	16		140
		1	1	7	4	9	3	2						
G	<i>Nipponacmea concinna</i>	2	2	1	1	2	1	0	3	1	1	3	2	19
G	<i>Nodilittorina radiata</i>	1	1		2	1	1		0		1	0		7
G	<i>Patelloida pygmaea</i>	2	1						2	2	2			9
P	<i>Nereididae</i> spp.	0			2	2	2		0	1				7
G	<i>Pirenella asiatica</i>	2	1	0	4	1	1	0	0	2	0	0		11
P	<i>Sabellidae imbricatus</i>		0		1		1		0	1	0	0	1	4
Po	<i>Lepidozona</i> spp.	2	1	2	2			1	1	2	0	2	0	13
Sp	<i>Siphonosoma</i> sp.	1				0	0	1			1		3	
													Tota l	681

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

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

Mar 2025	Sampling Zone TC1	Mid tidal level (1.5 m above C.D.)																		Sub-total
		1		2		3		4		5		6		7		8		9		
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	C
Ba	<i>Balanus amphitrite</i>	0	1	1	1	1	0	1	1	1	1	0	0	0	0	0	0	0	0	6
Bi	<i>Barbatia virescens</i>		1	0	0	0				0		0		0						1
Bi	<i>Brachidontes variabilis</i>	0	1	1	1	1	0	1	1			2		0		0	0	1	1	8
Bi	<i>Glauconome chinensis</i>				2	2	0	2	1	1	1									8
Bi	<i>Saccostrea cucullata</i>	14	26	15	19	23	23	17	26	18	16									197
Bi	<i>Xenostrobus atratus</i>	1				1						0		0		1				3
C	<i>Gaetice depressus</i>	1	2	2	1	2	2	1	1	1	1	2	1	1		2				19
C	<i>Hemigrapsus penicillatus</i>	0	1	2	1	1	2	0	1	1	0	1				0				10
C	<i>Metopograpsus latifrons</i>	1	0	0	0	0	2	1	1	1	0	0	2			0				7
G	<i>Batillaria multiformis</i>	0		1				0					0	1	3					5
G	<i>Batillaria zonalis</i>	5	7	11	11	10	1	11	6	7	4		7	4	7					80
G	<i>Chlorostoma argyrostomum</i>	2	1				2	1	0		1	1	0	1	1	0	1	1	1	8
G	<i>Clithon faba</i>	1	1	0	1	0	1	1	0	1	1	0	1	1	2	2	2	2	12	
G	<i>Clithon retropictus</i>	1		1	1	2	1			3	2									11
G	<i>Littoraria articulata</i>		2	0	0				2	2			2			0				6
G	<i>Lottia dorsuosa</i>	0		1	1	0	1	2	1	2	2	1	2	2	1	1	1	1	12	
G	<i>Lunella coronata</i>	0	3	1	1	0	1	2	1	1	1	1	1	1	1	2	2	2	14	



G	<i>Lunella granulata</i>	2	0	3	0	3	0	0	1	1	10
G	<i>Monodonta labio</i>	7	11	15	13	15	14	12	10	10	12
G	<i>Nerita squamulata</i>	0	0	0	0	0	2	3	0		5
G	<i>Nipponacmea concinna</i>	6	0	2	0	5	0	0		2	15
G	<i>Nodilittorina radiata</i>		2	0	0		3		0		5
G	<i>Patelloidea pygmaea</i>	1		1	1	2		1	1	1	12
G	<i>Pirenella asiatica</i>		2				0	2		1	1
P	<i>Nereididae spp.</i>	1		1	1	2	2	1	0	1	0
Po	<i>Lepidozona spp.</i>		2	0	0		0	0	1	1	0
Sp	<i>Siphonosoma sp.</i>	0	0	0	0	0	3	0	2	2	7
Sp	<i>Sipunculus nudus</i>	1	1	1	1	1	1	1	1	1	12
Total											613

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

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

Mar 2025	Sampling Zone TC1	Low tidal level (0.5 m above C.D.)																		Sub-total	
		1		2		3		4		5		6		7		8		9			
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	C	
Ba	<i>Balanus amphitrite</i>			0		1			2		0		2		1		2		1		9
Bi	<i>Barbatia virescens</i>	1		1		1	3		1	1		7		8		12		9		4	91
Bi	<i>Anomalocardiasquamosa</i>	1		2		0		0		1	2	2		1		1		1			13
Bi	<i>Brachidontes variabilis</i>			0		2										0					2
Bi	<i>Glauconome chinensis</i>		2			1					2										5
Bi	<i>Saccostrea cucullata</i>					0			1	2	2		1				3		1	1	11
Bi	<i>Xenostrobus atratus</i>				2			1								1		1			5
C	<i>Gaetice depressus</i>			3		1				0			0		1		0				5
C	<i>Hemigrapsus penicillatus</i>	0	2			0				0	1		0		1		0		2		6
C	<i>Metopograpsus latifrons</i>					1		1													2
C	<i>Pagurus dubius</i>	2		2		2	1	2		1	1	0		1		3		1		0	16
Cn	<i>Diadumene lineata</i>			3		0		0		2		1		2		0		2		1	11
G	<i>Batillaria multiformis</i>	1		1		1		1		1		6		1		11		11		8	103
G	<i>Batillaria zonalis</i>			1		4		1		1		0			1		1		1		3
G	<i>Chlorostoma argyrostomum</i>	1		0	2	1		1		2	0		2		0		0		3		12

		0	1	1		1	1	2	1	7
G	<i>Clithon retropictus</i>									
G	<i>Littoraria articulata</i>	3		1		1	4			9
G	<i>Lottia dorsuosa</i>					0		0	0	0
G	<i>Lottia luchuana</i>	1	0		0		4		2	7
G	<i>Lunella coronata</i>	2	3	1	2	3				14
G	<i>Lunella granulata</i>	0	1	1		1	1		1	8
G	<i>Monodonta labio</i>		2	2	1	2	2	1	0	10
G	<i>Nerita lineata</i>	1	1	0	1	0		1	0	4
G	<i>Nerita polita</i>	2	0		0					2
G	<i>Nerita squamulata</i>	0	1	2	1	2	1	2	1	14
G	<i>Nipponacmea concinna</i>			1		1		0	1	5
G	<i>Nodilittorina radiata</i>	8	1	1	9	1	1	9	7	94
P	<i>Nereididae spp.</i>	0	1	2	1	2	0		0	6
P	<i>Sabellidae imbricatus</i>	2		1		1	2	0	2	10
Po	<i>Lepidozona spp.</i>	1	0	0	0	0	0	1	0	4
Sp	<i>Siphonosoma sp.</i>		1	1	0	1	1	0	1	5
Sp	<i>Sipunculus nudus</i>	0	0		0		0		0	0
Total										493

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

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

Mar 2025	Sampling Zone TC2	High tidal level (2.0 m above C.D.)																		Sub-total
		1		2		3		4		5		6		7		8		9		
Gp	Taxon	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Ba	<i>Balanus amphitrite</i>							0		0				0		1		1		1
Bi	<i>Barbatia virescens</i>		1					1	1				1							4
Bi	<i>Brachidontes variabilis</i>		1			2												2		5
Bi	<i>Glauconome chinensis</i>	0	0	1		1		2		2		2		0		2		1		11
Bi	<i>Saccostrea cucullata</i>	28	31	26		30		28		21		22		24		17		15		242
Bi	<i>Xenostrobus atratus</i>	3	1	1		3	1	1		1		1	1	3		2		2		20
C	<i>Gaetice depressus</i>	0	2	1	0									0			0		0	3
C	<i>Hemigrapsus penicillatus</i>	2	1			0				1		1	1	2			1	2		9
C	<i>Metopograpsus latifrons</i>	1					1			1		1	2							6
C	<i>Metopograpsus quadridentatus</i>			1	0	2		3		0		3			2	1		0		12
Cn	<i>Diadumene lineata</i>	1	3	0						0		1	3					1		9
G	<i>Batillaria multiformis</i>	13	14	0	5	15		13	1	9		10	7		7		5	1		100
G	<i>Batillaria zonalis</i>				0	2		2		1		2			0		0		0	7
G	<i>Chlorostoma argyrostomum</i>	1	0			3	1			1		1	1	1						8
G	<i>Clithon retropictus</i>	0	1	0		2		3		0		1	0	1	1		0			9
G	<i>Littoraria articulata</i>				1		1	2		1		2			2		1		10	
G	<i>Lottia dorsuosa</i>	0		1		1		2			0	0		1						5



		3	2	1		2		1	2	11
G	<i>Lunella coronata</i>									
G	<i>Lunella granulata</i>	0	1	1		1			1	4
G	<i>Monodonta labio</i>	23	11	15	12	14	17	13	11	143
G	<i>Nerita squamulata</i>	1		0	1	1	1	1	3	0
G	<i>Nipponacmea concinna</i>		1					3	2	6
G	<i>Nodilittorina radiata</i>	1	2	1				2	2	1
G	<i>Patelloidea pygmaea</i>			3	1			0		4
G	<i>Pirenella asiatica</i>	1			1	0	3	1	2	11
G	<i>Pirenella incisa</i>		3			2	0	0	3	8
Ne	<i>Nemertea sp.</i>	1	2	1	1	0	0	1	0	7
Po	<i>Lepidozona spp.</i>		0	1		1		3	2	1
Sp	<i>Siphonosoma sp.</i>	1	1	1	1	1	1	1	1	9
									Total	690

Key for faunal groups (Gp):

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

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

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

Mar 2025 Sampling Zone TC2

Mid tidal level (1.5 m above C.D.)

Gp	Taxon	1										2										Sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	C	C	
Ba	<i>Balanus amphitrite</i>	1		3			0		0		2								0			6
Bi	<i>Barbatia virescens</i>			2		1		2		2		1		2		2		1				13
Bi	<i>Brachidontes variabilis</i>	3	1	1		2		1			2		3		2		3					18
Bi	<i>Glauconome chinensis</i>			3		1		0	1		1	1	0		1		2		2			12
Bi	<i>Saccostrea cucullata</i>	20		21	1	20		25		16		14		14		16		21		22		190
Bi	<i>Xenostrobus atratus</i>	0	1			2		2			1		2		2		2		0			12
C	<i>Gaetice depressus</i>	2		1		1			2		1		1	1	1	1	0		2			13
C	<i>Metopograpsus latifrons</i>			1		2		3	2	0			0									8
C	<i>Pagurus dubius</i>			0		0			0			1						0				1
Cn	<i>Diadumene lineata</i>	1		0		0		1		1			1				0		1			5
G	<i>Batillaria multiformis</i>	1		2		5		2		8		1		3		1		6		1		30
G	<i>Batillaria zonalis</i>	11		6		7		7		8		10		5		8		10		11	1	84
G	<i>Clithon faba</i>	2		1		2		2		0		0		1		5		2		2		17
G	<i>Clithon retropictus</i>	1		1		0		0		2		1			2		3		1			11
G	<i>Littoraria articulata</i>	3							1		0		1		0		1		3			9
G	<i>Lottia dorsuosa</i>	0		3		3			1		1			1		0		0				9

		1	1	1	2	2	1	8
G	<i>Lunella coronata</i>	1						
G	<i>Lunella granulata</i>	0	1		1	1	0	4
G	<i>Monodonta labio</i>	12	1	6	8	1	7	15
G	<i>Nipponacmea concinna</i>	0	0	0	2	2	0	9
G	<i>Nodilittorina radiata</i>		2	1	3	1	1	5
G	<i>Patelloida pygmaea</i>		1	1	0	1	0	6
G	<i>Pirenella incisa</i>	2			1	1	1	12
Ne	<i>Nemertea spp.</i>		1	2	2	0	0	6
Po	<i>Lepidozona spp.</i>	1			0	0	0	3
Sp	<i>Sipunculus nudus</i>	0	0	0	2	1	0	3
							Total	605

Key for faunal groups (Gp):

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

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

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

Mar 2025 Sampling Zone TC2

Low tidal level (0.5 m above C.D.)

Gp	Taxon	1										2										Sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	C	C	
Ba	<i>Balanus amphitrite</i>	0		2		1		0		2		2		0		0		3				10
Bi	<i>Anomalocardia squamosa</i>	1				2		1				2		1			1					8
Bi	<i>Barbatia virescens</i>	16		8		9		11		2		12		10		12		1		9		109
Bi	<i>Brachidontes variabilis</i>	0		2									0		2				1			5
Bi	<i>Glauconome chinensis</i>	3		3		0		1					3		1		1			1		13
Bi	<i>Isognomon isognomum</i>			1		2		3		1						3		0		3		13
Bi	<i>Saccostrea cucullata</i>	1					0					1		2		0				0		4
Bi	<i>Xenostrobus atratus</i>	3	1	0		2	1	1		0		1	1			2		1		2		15
C	<i>Gaetice depressus</i>			2			2		2				1						1			8
C	<i>Hemigrapsus penicillatus</i>				1	1		2					0			2	2	1	1			10
C	<i>Metopograpsus latifrons</i>			3		0			2									1				6
C	<i>Pagurus dubius</i>	3		0		2			1	0		3	1	1	1	1	1	2		2		17
Cn	<i>Diadumene lineata</i>	0		2			1		2		0		0		1							6
G	<i>Batillaria multiformis</i>	10		6		8		7		8		10		10		5		6		8		78
G	<i>Batillaria zonalis</i>	6		4		3		1		3		1			5				5			28
G	<i>Clithon retropictus</i>			0		2		0		2		0		0		2		2		2		10

		1	1	3	0	3	0	1	1	2	1	2	15
G	<i>Littoraria articulata</i>			1	3	2	3	2	0	1	1	1	14
G	<i>Lottia dorsuosa</i>				1	3	2	3	2	0	1	1	10
G	<i>Lunella coronata</i>				3	0	1	0	0	3	1	2	2
G	<i>Lunella granulata</i>	2	1	6	5	1	6			2	1	1	38
G	<i>Monodonta labio</i>			2				0	3	1		1	7
G	<i>Nipponacmea concinna</i>	0		0	0	0	1	0	0	0	0	2	3
G	<i>Nodilittorina radiata</i>	1	3		3		3			2	2		14
G	<i>Patelloida pygmaea</i>		1	3		3		0	1				8
G	<i>Pirenella incisa</i>	1	1	2	1	2	2	1		0	0	1	11
Po	<i>Lepidozona spp.</i>	2	0				2	0	1	1	1	0	6
Sp	<i>Siphonosoma sp.</i>			0	2	0	0	1	1			1	5
Sp	<i>Sipunculus nudus</i>	1	0	1	0	1		1	1	1	1	0	6
Total													477

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

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

Mar 2025 Sampling Zone TC3

High tidal level (2.0 m above C.D.)

Gp	Taxon																					Sub-total	
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C		
Bi	<i>Barbatia virescens</i>			2	0			3	3			3	0			3						12	
Bi	<i>Brachidontes variabilis</i>	0				0								2						2		3	
Bi	<i>Glauconome chinensis</i>	0		1		1		0		1		1			1		1		3			11	
Bi	<i>Saccostrea cucullata</i>	33		30	2	25		26		25		27		31		31		20		29	2		277
Bi	<i>Xenostrobus atratus</i>	0		2		2		3		0		3		3		1		0		1			14
C	<i>Gaetice depressus</i>	0	1	2	2	1		2		0		2		1		1		0		2	1		10
C	<i>Metopograpsus latifrons</i>			5	1					3					2		1						12
C	<i>Pagurus dubius</i>	0		2				0				0			1		3						4
G	<i>Batillaria multiformis</i>	1		2		0	1	2		2		2		0		1	0	1	2				13
G	<i>Batillaria zonalis</i>	0	1	0	2					3					0					2			6
G	<i>Clithon ovalaniensis</i>	1						1				1									3		6
G	<i>Clithon retropictus</i>	1		1						3		2								0			10
G	<i>Littoraria articulata</i>	1		1		3	2	1	1	1		3		3		1	2	1	2				20
G	<i>Lunella coronata</i>	1		5		1				2				1		3	3	2					18

		1	1	2	1	14	11	15	17	14	16	10
G	<i>Lunella granulata</i>											
G	<i>Monodonta labio</i>	26	11	1	12	9	14	11	15	17	14	155
G	<i>Nerita chamaeleon</i>		0			0	3	0		0		4
G	<i>Nerita polita</i>			2	4	2		3	3	2		15
G	<i>Nerita squamulata</i>						2	2		1	4	3
G	<i>Nipponacmea concinna</i>						2			2	2	8
G	<i>Nodilittorina radiata</i>	1	1			1	1	1	1		2	14
G	<i>Patelloida pygmaea</i>				1		1		1		3	7
G	<i>Pirenella incisa</i>	4	3	0	4	3	1	3	4	0	4	17
G	<i>Thais clavigera</i>				1		0				1	3
P	<i>Nereididae</i> spp.				2				1	2	2	13
P	<i>Perinereis</i> sp.		0			3	0	3			2	13
P	<i>Sabellidae imbricatus</i>	1	0	2	1	0	0	0	1	1	0	13
PI	<i>Platyhelminthes</i>	3	0	1	3	0	0	1	3	3	0	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



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

Mar 2025 Sampling Zone TC3

Mid tidal level (1.5 m above C.D.)

Gp	Taxon	1										2										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	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Bi	<i>Barbatia virescens</i>					2	0												1		3	
Bi	<i>Brachidontes variabilis</i>		0			0	1	0													1	
Bi	<i>Glauconome chinensis</i>	3	2			1	2	3	1	3		2		1	2					20		
Bi	<i>Saccostrea cucullata</i>	30	35	18	19	22	26	28	24	28	26									256		
Bi	<i>Xenostrobus atratus</i>	3	1	3		2			1	1	3								0	14		
C	<i>Gaetice depressus</i>	2		1		0	1	2							1	1				8		
C	<i>Metopograpsus latifrons</i>	2	2	2	0	3			2	1	2		2	1					17			
G	<i>Batillaria multiformis</i>		6			1	1				6									14		
G	<i>Batillaria zonalis</i>	2		2		1	2	1	1	2			2		5				18			
G	<i>Clithon faba</i>		1	1	1	0	2			5			1							11		
G	<i>Clithon ovalaniense</i>	1		1	2			0	0				2							6		
G	<i>Clithon retropictus</i>					2	2													4		
G	<i>Littoraria articulata</i>	2		2	1	1	1	1			2		1						11			
G	<i>Lottia dorsuosa</i>	0		0		2	2	3	1		0		0							8		



		Ecological impact mudflat monitoring (Quarterly) at Tung Chung 2025/03										Total	664
		1	0	1	0	2	0	1	0	1	1		
G	<i>Lunella coronata</i>	1	0	1	0	2	0	1	0	1	1	6	
G	<i>Lunella granulata</i>	1	4	1	5	1			4	1	3	20	
G	<i>Monodonta labio</i>	20	5	15	7	11	14	1	15	12	14	13	127
G	<i>Nerita chamaeleon</i>		1	1	0	2		1	1	2	1	9	
G	<i>Nerita lineata</i>	0	1		0		2	2	1	1		2	9
G	<i>Nerita polita</i>			1	1	2				1	1	0	6
G	<i>Nerita squamulata</i>		1	2				1	1	3	2	10	
G	<i>Nipponacmea concinna</i>	2	1		2	0		1	0		0	6	
G	<i>Nodilittorina radiata</i>	1	1	3	1	1	1	2	2	1	2	15	
G	<i>Patelloida pygmaea</i>		3		1	0		0	3		3	10	
G	<i>Pirenella asiatica</i>	1		0	2	1	1	0			0		5
G	<i>Pirenella incisa</i>	0	1	0	0	2	1	1		1	0	2	8
Ne	<i>Nemertea spp.</i>		1	1		0		0	1	3		6	
P	<i>Sabellidae imbricatus</i>				0	0	1	0				1	
Po	<i>Lepidozona spp.</i>	3	1	0	0	1	2	1	3	1		12	
Sp	<i>Siphonosoma sp.</i>		1		1			1	1		2	6	
Sp	<i>Sipunculus nudus</i>	2		3	1		2	2		3	2	15	

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

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

Mar 2025 Sampling Zone TC3

Low tidal level (0.5 m above C.D.)

Gp	Taxon	1										2										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			0		1		0		2		3								7
Bi	Barbatia virescens	12	11	15	11	10	13	15	17	19	22											145
Bi	Anomalocardia squamosa	0		1	1	0		3	0	1	0											6
Bi	Ruditapes philippinarum	2	0	2	2	2	0															8
Bi	Brachidontes variabilis		1	3	3			0	0	0											0	7
Bi	Glaucome chinensis	0	1	1	0	0	0	3	2			0										7
Bi	Saccostrea cucullata		1	1	1			2		0	0	0										5
Bi	Xenostrobus atratus	0		1	1	0	2	2	0	1	0											7
C	Gaetice depressus	1	0	1	1	1	1	0	0	2	1	1	1	1	1	1	1	1	1			9
C	Metopograpsus latifrons	0	0	1	1	2	1	0	1	1	1	1	1	0								9
C	Pagurus dubius	8	6	6	5	12	6	12	11	10	6											82
G	Batillaria multiformis	7	5	2	2	7	5	2	3	4	4											41
G	Batillaria zonalis	0	2	0	0	0	2		0	1	0	1	0	1	0	1	0	1	0		6	
G	Clithon ovalaniensis		1	3	3			2	1			3										13
G	Littoraria articulata	1	1	2	1	2	1	1	2		2											13
G	Lottia dorsuosa	0	2	1	0	0	0	1	0	0	3	1										8



		6	11	1	10	10	9	12	6	6	9	5	85
G	<i>Lunella coronata</i>	1	1	1	1	4	8	5	2	1	4	1	39
G	<i>Lunella granulata</i>	1	2	0	1	1	0	2	0	0	0	3	10
G	<i>Monodonta labio</i>	1	3			1		3	0		1		9
G	<i>Nipponacmea concinna</i>	1	1	2	1	2	2			2		2	13
G	<i>Patelloidea pygmaea</i>	2		0	1	2	0			0	1		6
G	<i>Pirenella incisa</i>		2				2	1	2	0	0	1	11
P	<i>Nereididae</i> spp.	0	0	1	0	1	0	2	1	0	0	1	5
Sp	<i>Siphonosoma</i> sp.	1		0	1	1	0	1	3	1	0	1	15
Sp	<i>Sipunculus nudus</i>	1	3	2	1	1	2	3	1	1	2	3	22
											Total	588	

Key for faunal groups (Gp):

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



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

Mar 2025 Sampling Zone ST High tidal level (2.0 m above C.D.)

Gp	Taxon	High tidal level (2.0 m above C.D.)																				Sub-total
		1 Q	1 C	2 Q	2 C	3 Q	3 C	4 Q	4 C	5 Q	5 C	6 Q	6 C	7 Q	7 C	8 Q	8 C	9 Q	9 C	10 Q	10 C	
Ba	<i>Balanus amphitrite</i>	1	0	1	0	1	0	1	0	1	0	1	1	1	0	0	0	0	0	0	5	
Bi	<i>Barbatia virescens</i>		2		1	1		1		1		1		1		1		0	0	0	0	7
Bi	<i>Brachidontes variabilis</i>		0						1									0	0			1
Bi	<i>Glaucome chinensis</i>	2	1	3		1				1		3		2		2		1	1	1	16	
Bi	<i>Saccostrea cucullata</i>	27	33	25	28	32	25	25	25	25	26	0	0	27	0	18	0	239				
Bi	<i>Xenostrobus atratus</i>	2	0	0	0	0	0	2		0		0		0		27	0	0	0	31		
C	<i>Gaetice depressus</i>	0	0	0	0	0	3			0		3		2		2		2	2	10		
C	<i>Metopograpsus latifrons</i>		0		1	1	2			0		1		2		2		2	2	7		
C	<i>Pagurus dubius</i>		2	3	3	1				1		1		0		0		2	2	12		
Cn	<i>Diadumene lineata</i>	2	1	0	0				2	1	1	2	1	1	2	1	1	1	1	11		
G	<i>Batillaria multiformis</i>	11	14	8	9	9	3	3	8	11	9	14	9	14	14	14	14	14	14	96		
G	<i>Batillaria zonalis</i>	2		0	0	3	3				0				0					0	8	
G	<i>Cellana toreuma</i>		2	3	1	2				2		2		2		2		2	2	14		
G	<i>Clithon faba</i>	0		0	0	0	0	1		1		1		2	0	0	2	2	6			



G	<i>Clithon retropictus</i>	0	0	0	3	0	1	1	1	1	0	6
G	<i>Littoraria articulata</i>		1	0	0		1	0		3		5
G	<i>Lottia dorsuosa</i>	1	1		2	1	2			1		9
G	<i>Lunella coronata</i>	2		3	3	2	3			2		15
G	<i>Lunella granulata</i>		2	0	0	0	0		1			3
G	<i>Monodonta labio</i>	14	17	9	11	15	16	14	13		21	130
G	<i>Nerita chamaeleon</i>	0	0	0	0		2	2	1	11	2	18
G	<i>Nerita polita</i>	1	1	1	2	2	2		3	0	0	14
G	<i>Nipponacmea concinna</i>	3	3	2	2	0	0	2	2	2	2	18
G	<i>Nodilittorina radiata</i>	1	1	1	1	1		0	2		2	10
G	<i>Patelloida pygmaea</i>		2	2	1			3	3			11
G	<i>Pirenella incisa</i>	0	0	2	2	1	0		2	2	3	12
P	<i>Sabellidae imbricatus</i>	2	2	2	1	0	1		0	0		8
Po	<i>Lepidozona spp.</i>		0		0		0	0	2	2	0	4
Sp	<i>Sipunculus nudus</i>		3		0	2	0	3	3	3	3	17
Sp	<i>Siphonosoma sp.</i>	0	3	0	1	2	1	3	1	1	3	15
												Total 758

Key for faunal groups (Gp):

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

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



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

Mar 2025 Sampling Zone ST		Mid tidal level (1.5 m above C.D.)																		
Gp	Taxon	1		2		3		4		5		6		7		8		9		Sub-total
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	
Bi	<i>Barbatia virescens</i>	2				1		1		1		1		2			1	2		11
Bi	<i>Glaucome chinensis</i>	0				0	1	0		1		0					0	2		4
Bi	<i>Brachidontes variabilis</i>	0		3		2				3		2				3	2	0		15
Bi	<i>Saccostrea cucullata</i>	1	1	2	2	2		2		2		18		17		24	21	22		211
Bi	<i>Xenostrobus atratus</i>	0	1	3	1	0		2		1		0		1		3	0	0		12
C	<i>Gaetice depressus</i>	2		1		2		4		2		2				1	1	2		17
C	<i>Metopograpsus latifrons</i>	2				1						2					2			7
C	<i>Pagurus dubius</i>	3				3		2				3			1	1		1		14
G	<i>Batillaria multiformis</i>		1	2						2		3		7		1			1	17
G	<i>Batillaria zonalis</i>			0		1					1				0		2	2		6
G	<i>Chlorostoma argyrostomum</i>	0		2	1	0		1		1	1	3		3	1	2	0	0	2	17
G	<i>Clithon faba</i>	0		1		2		2		0		1				2	0	0		8
G	<i>Clithon ovalaniense</i>					1			1	1	2		2							7
G	<i>Clithon retropictus</i>	1		0		1		1		1		0		1		0	2	0		7
G	<i>Littoraria articulata</i>	3				3		2		2		0		2			0	0		12

		1	1	1	3	2	1	1	1	1	1	7
G	<i>Lottia dorsuosa</i>											
G	<i>Lunella coronata</i>				3	2		1			0	6
G	<i>Lunella granulata</i>	3		3			1	3		1	2	13
G	<i>Monodonta labio</i>	1	8	1	1	1	7	10	6	11	18	112
G	<i>Nerita chamaeleon</i>	5		4	1	2						
G	<i>Nerita lineata</i>	0	0	1	0	2	0	0	0	2	0	2
G	<i>Nerita squamulata</i>	2		2	1		2	1	0		2	1
G	<i>Nipponacmea concinna</i>	1	1	2				1	1	2		8
G	<i>Nodilittorina radiata</i>	3		1	1	1			2		3	12
G	<i>Patelloida pygmaea</i>							2	3			5
G	<i>Pirenella incisa</i>	3	1		2	1	1	1		2		14
Ne	<i>Nemertea spp.</i>	2	1		2	2	1	3		4	2	19
P	<i>Sabellidae imbricatus</i>	3	1		0	1	0	1	2			8
Po	<i>Lepidozona spp.</i>			2	2		0	1	2	2		9
Sp	<i>Siphonosoma sp.</i>	1	2		2	2	2	3	2		1	15
Sp	<i>Sipunculus nudus</i>	0	0	0	1	0	1	3	0	0	0	5
Total												620

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



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

Mar 2025 Sampling Zone ST Low tidal level (0.5 m above C.D.)

Gp	Taxon	1										2										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	1	1					1	2					1	1	1	1	1	8	
Bi	<i>Anomalocardia squamosa</i>	3	1	0	2	0	0	2								1	3				12	
Bi	<i>Barbatia virescens</i>	7	1					7	7	7						4	7				40	
Bi	<i>Brachidontes variabilis</i>			1	1	2									1	2					7	
Bi	<i>Glauconome chinensis</i>	0	1	3			1	0	1						1	0	1	0			7	
Bi	<i>Saccostrea cucullata</i>	2	3	1	1	0	1	4	2		2				4	2					20	
Bi	<i>Xenostrobus atratus</i>		0	0	0	2				1					0						3	
C	<i>Gaetice depressus</i>	1					1	0							0	1	1				4	
C	<i>Hemigrapsus penicillatus</i>	0	0		1			2	2	2	2				1	0					8	
C	<i>Metopograpsus latifrons</i>		1	1	2	2				0											6	
C	<i>Metopograpsus quadridentatus</i>	0	3		1			0							0						4	
Cn	<i>Diadumene lineata</i>	0	2	2	2	1	1	1							0						8	
G	<i>Batillaria multiformis</i>		2		3			1							1	2					9	
G	<i>Batillaria zonalis</i>	14	11	16	16	14	13	11	14	14	14	14	14	14	14	14	14	14	14	137		
G	<i>Chlorostoma argyrostomum</i>			1	1	0	2	1	2	1	2	1	1	1	1						9	



		1	2	3	4	5	6	7	8	9	10	11	12	Total
G	<i>Clithon faba</i>	3		3	3	3	2	0	1	0	3		18	
G	<i>Lottia dorsuosa</i>				1		1	2					4	
G	<i>Lunella coronata</i>	0	2	1	1	2	2	1	2	2	0	0	13	
G	<i>Lunella granulata</i>	2	2	1	2	1	1	1	1	1	4	2	5	22
G	<i>Monodonta labio</i>	12	8	11	1	8	7	9	14	5	7	12	94	
G	<i>Nerita lineata</i>	3	3	3	0	3	3	1	0		3		19	
G	<i>Nerita squamulata</i>		3	3	0	0		2	0				8	
G	<i>Nipponacmea concinna</i>	2			1		2				2		7	
G	<i>Nodilittorina radiata</i>		1	1	1			4					7	
G	<i>Patelloida pygmaea</i>	1					1			1	1	1	5	
G	<i>Pirenella incisa</i>	1	0	0		0	1			1	1	1	4	
Ne	<i>Nemertea spp.</i>	2			0	2	2		0		2		8	
P	<i>Sabellidae imbricatus</i>						3	0		1			4	
Po	<i>Lepidozona spp.</i>				1	0		3					4	
Sp	<i>Siphonosoma sp.</i>				2	3		1	2	0			8	
Sp	<i>Sipunculus nudus</i>	0	0	0	0	1	0	3	0	1	0		5	
														512

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