

Figure 2.1. Locations of sampling zones. The study area 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. (September 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 (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)



Trash at ST (September 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).



Photo taken in March 2024



Photo taken in September 2024



Photo taken in December 2024



Tachypleus tridentatus, March 2025



Carcinoscorpius rotundicauda (June 2025)

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

**Table 3.1. Summary of juvenile horseshoe crab survey in September 2025**

	TC1	TC2	TC3	ST
Search duration (hr)	2	2	3	3
<i>Carcinoscorpius rotundicauda</i>				
No. of individuals	0	0	0	0
Mean prosomal width (mm)	\	\	\	\
Max. prosomal width (mm)	\	\	\	\
Min. prosomal width (mm)	\	\	\	\
Search record (ind. Hr./person)	0	0	0	0
<i>Tachypleus tridentatus</i>				
No. of individuals	0	0	0	0
Mean prosomal width (mm)	\	\	\	\
Max. prosomal width (mm)	\	\	\	\
Min. prosomal width (mm)	\	\	\	\
Search record (ind. Hr./person)	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.*

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.*

Carcinoscorpius rotundicauda
December 2024



Dead horseshoe specimen
March 2025



Carcinoscorpius rotundicauda
tangled by rubbish fish net September
2025



Rescued and released horseshoe crabs
September 2025



Figure 3.4 (Cont'd) *Photographic records of large individuals (>100 mm) of horseshoe crabs.*

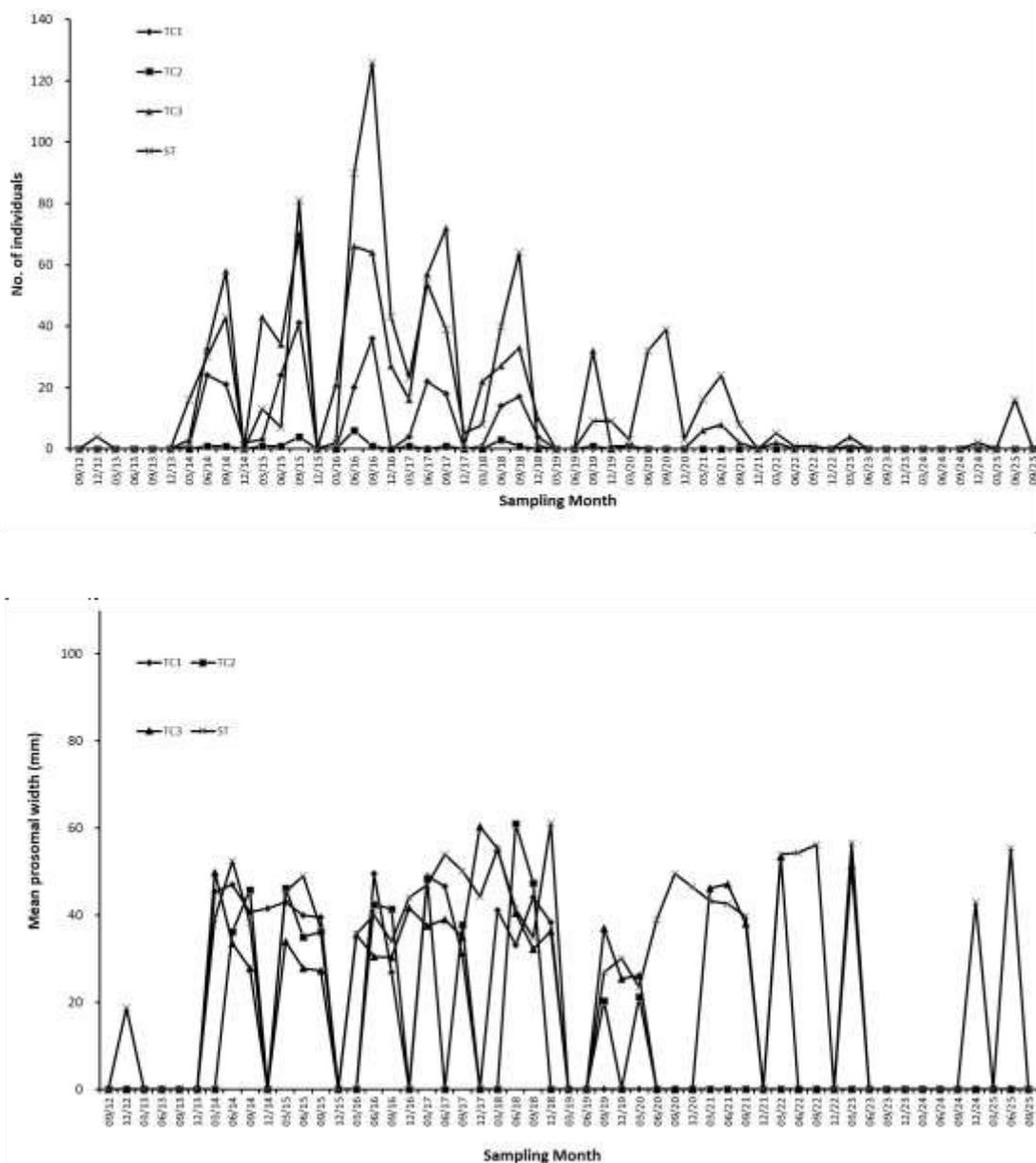


Figure 3.5 Changes of number of individuals mean prosomal width and search record of horseshoe crab *Carcinoscorpius rotundicauda* in every sampling zone along the sampling months

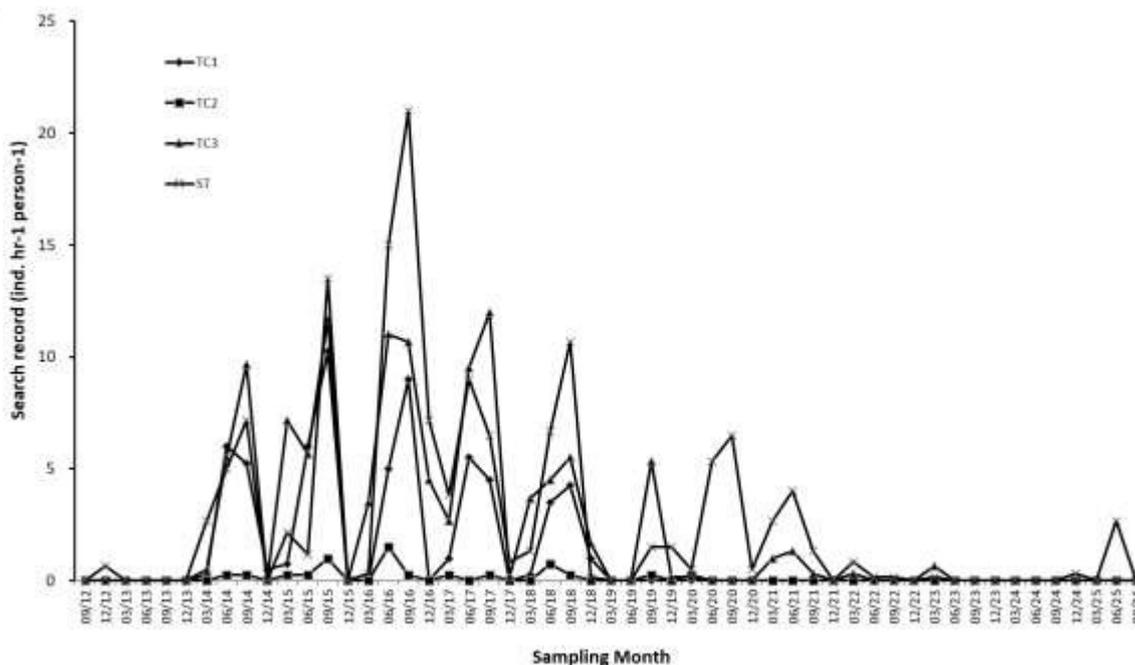


Figure 3.5 (Cont'd) Changes of number of individuals mean prosomal width and search record of horseshoe crab *Carcinoscorpius rotundicauda* in every sampling zone along the sampling months

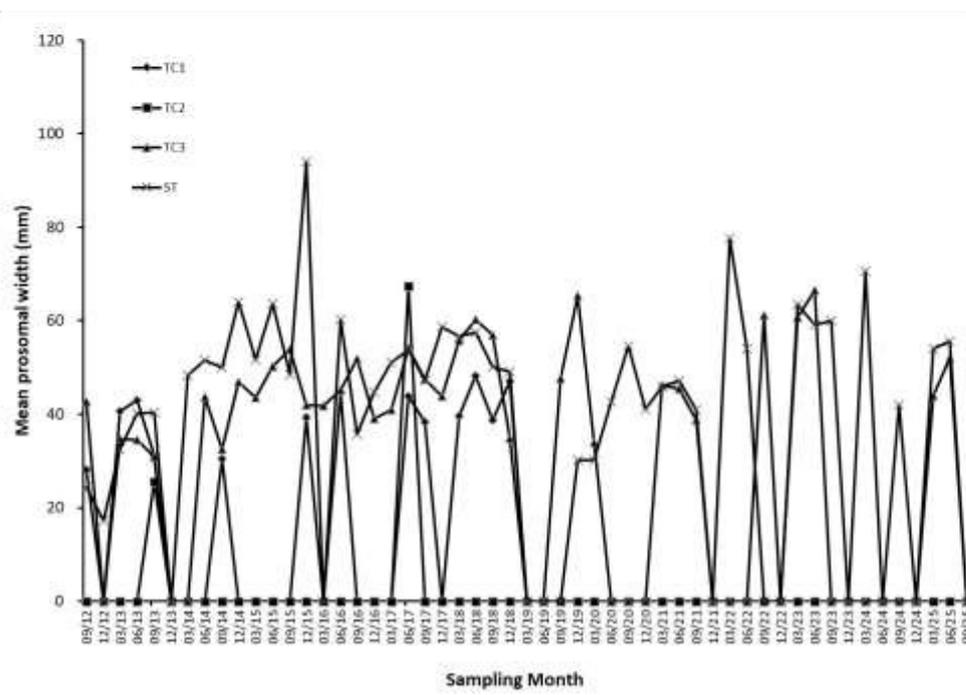
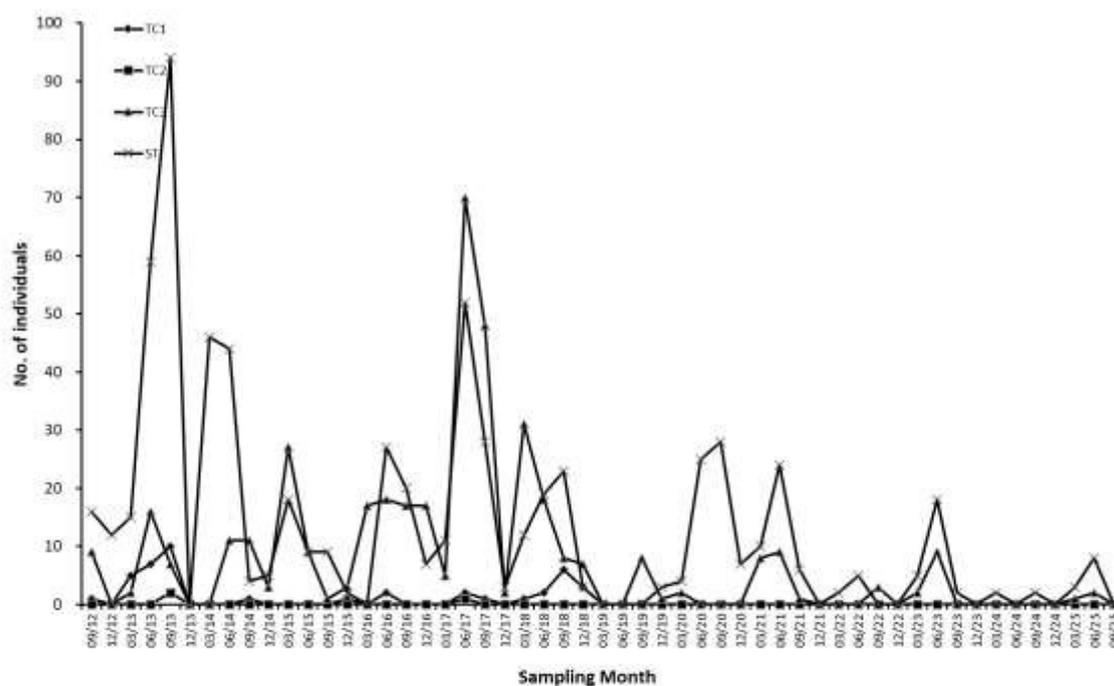


Figure 3.6 Changes of number of individuals mean prosomal width and search record of horseshoe crab *Tachypleus tridentatus* in every sampling zone along the sampling months

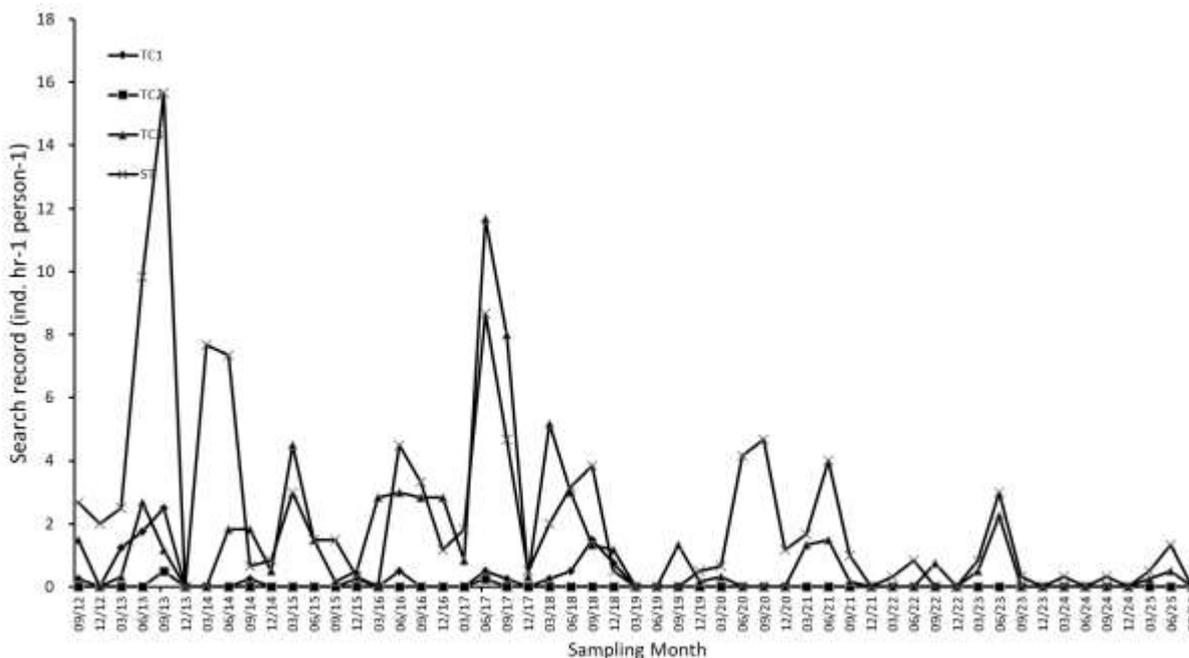


Figure 3.6 (Cont'd) Changes of number of individuals mean prosomal width and search record of horseshoe crab *Tachypleus tridentatus* in every sampling zone along the sampling months

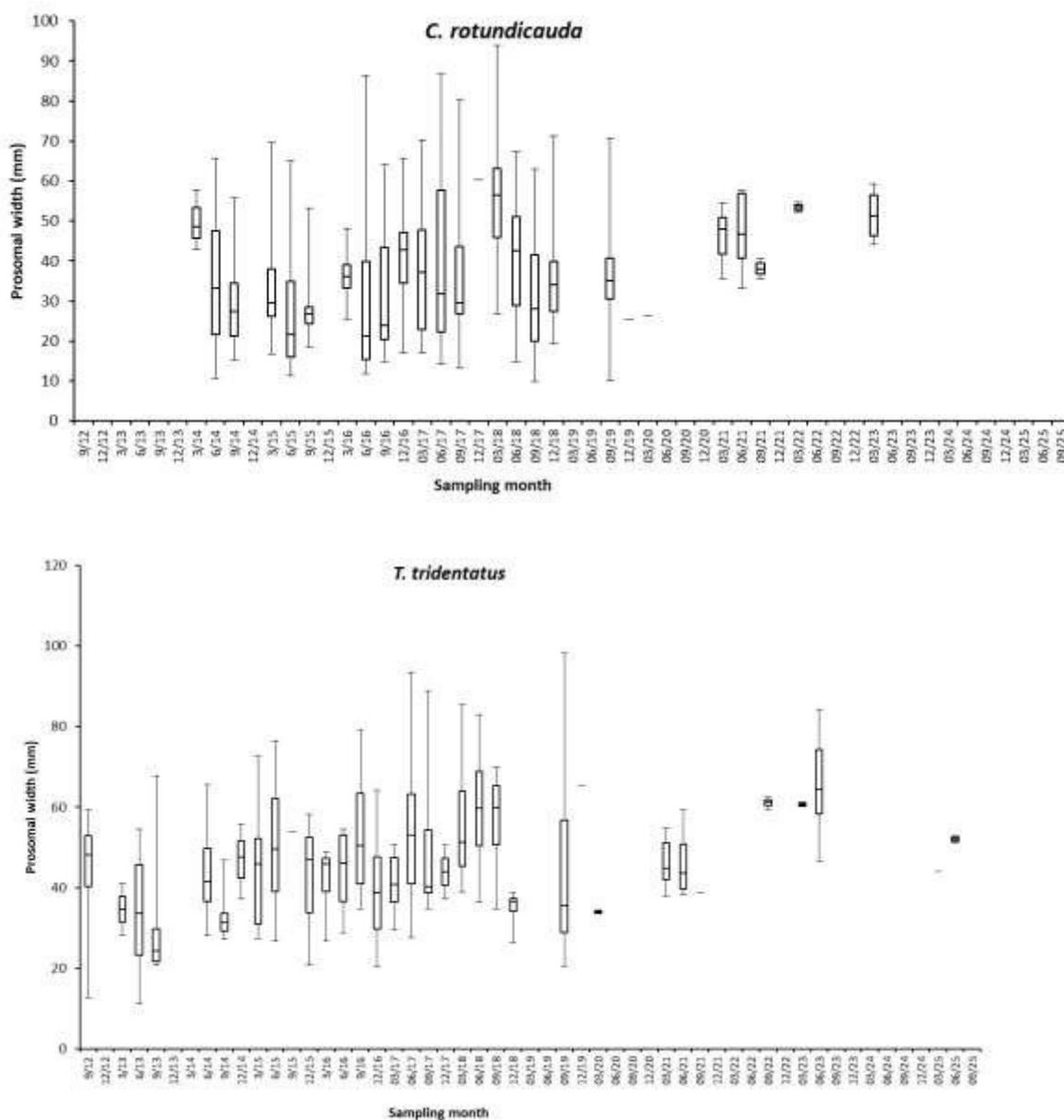


Figure 3.7 Box plot of prosomal width of horseshoe crab in the sampling zone TC3 along the sampling months. (The box represents 50% of the sample (upper to lower quartile) with a middle line showing the median value. The upper whisker and lower whisker showed the 25% of sample above upper quartile and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

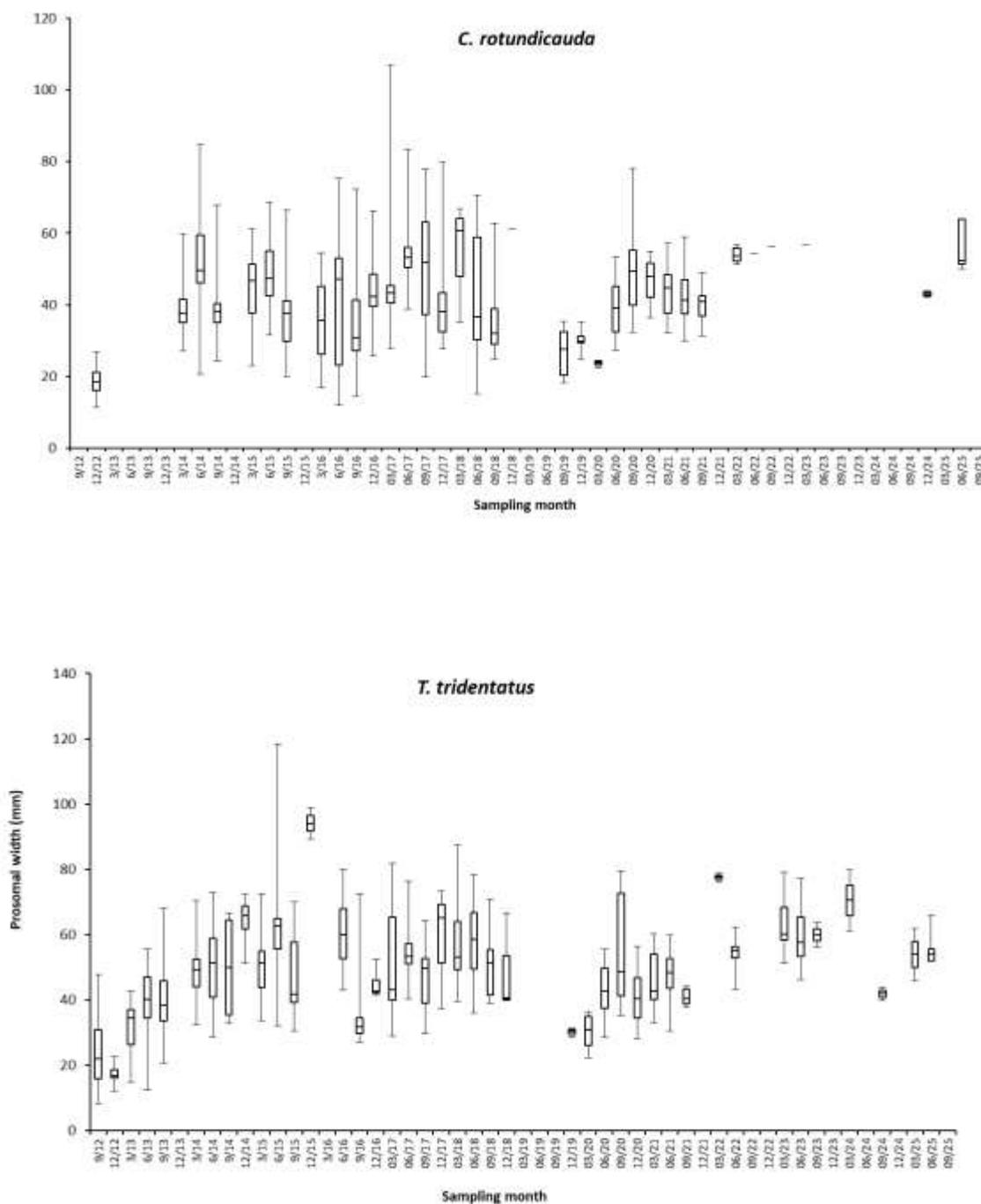


Figure 3.8 Box plot of prosomal width of horseshoe crab in the sampling zone ST along the sampling months. (The box represents 50% of the sample (upper to lower quartile) with a middle line showing the median value. The upper whisker and lower whisker showed the 25% of sample above upper quartile and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



Halophila ovalis in TC3, September 2024



Seagrass *Halophila ovalis* at ST, June 2025

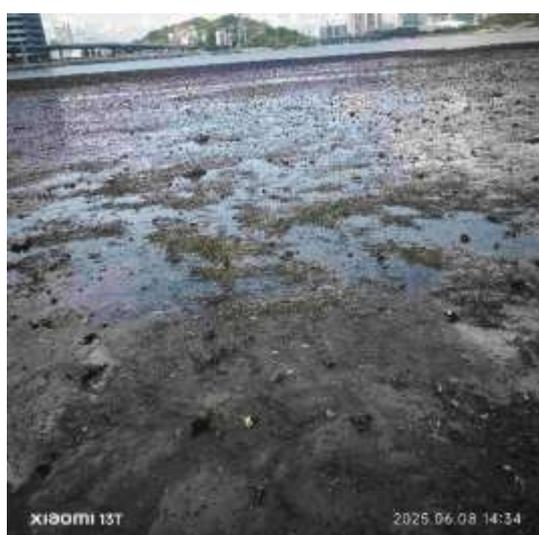


Figure 3.10 Photographic records of seagrass beds in 2024 and 2025 surveys.

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



Photo shown disappearance of seagrass bed in December 2024



Seagrass *Zostera japonica*, in March 2025 (below, left), in June 2025 (below, right)



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

***Halophila ovalis* at ST, September 2025**



Seagrass *Zostera japonica*, in September 2025



Figure 3.10 (Cont'd) Photographic records of seagrass beds in September 2025.



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	6	1
Total area (m ²)	0	1200	30
Average area (m ²)	0	200	30

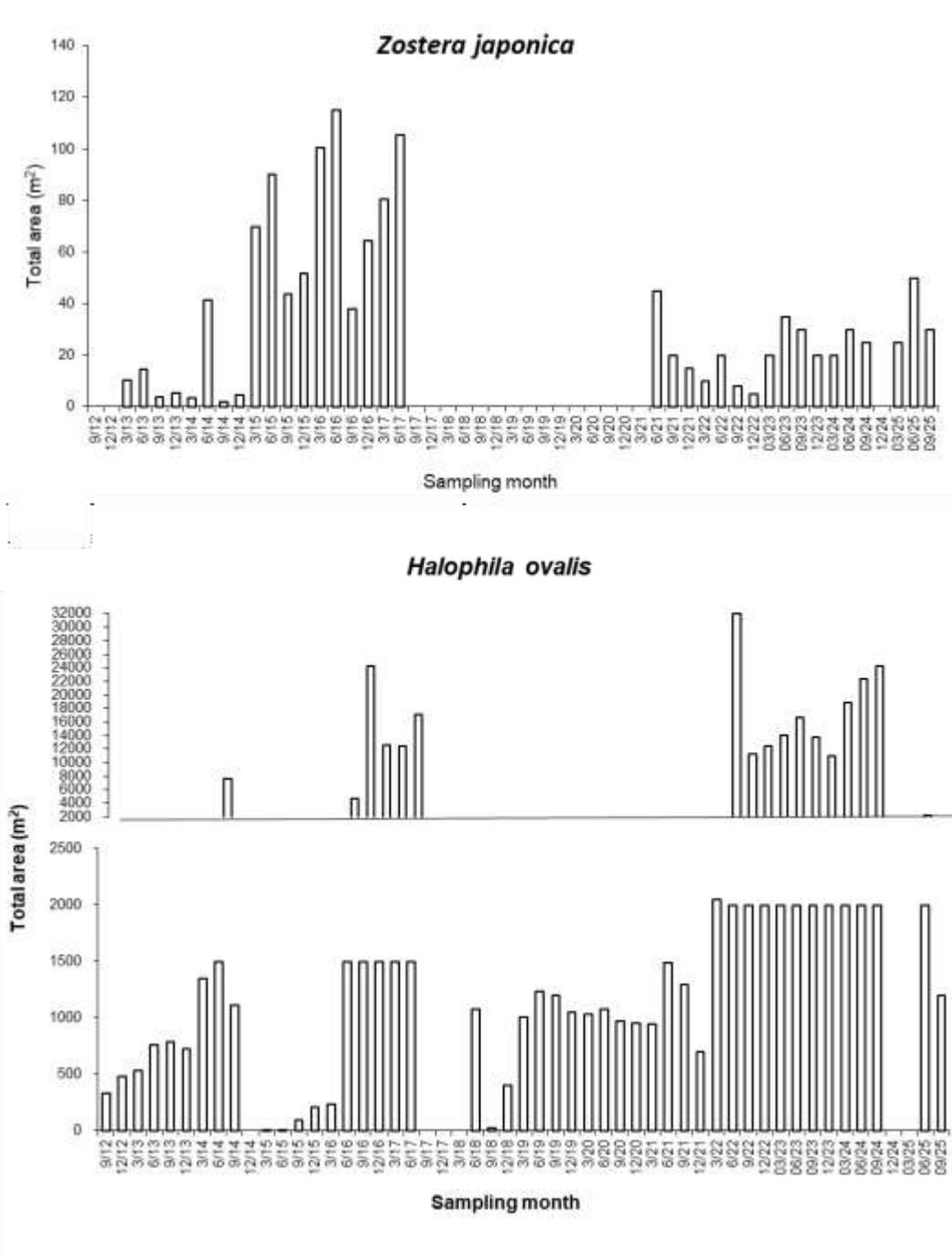


Figure 3.11 Temporal changes of estimated total area of seagrass beds in ST.

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.

ST Newly re-generated seagrass, March 2025 (below left), and June 2025 (below right)



ST seagrass bed, September 2025 (below left)



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 re-generated at ST since March 2025. Two seagrass species partially re-colonized at ST since June 2025, but not at CT3.



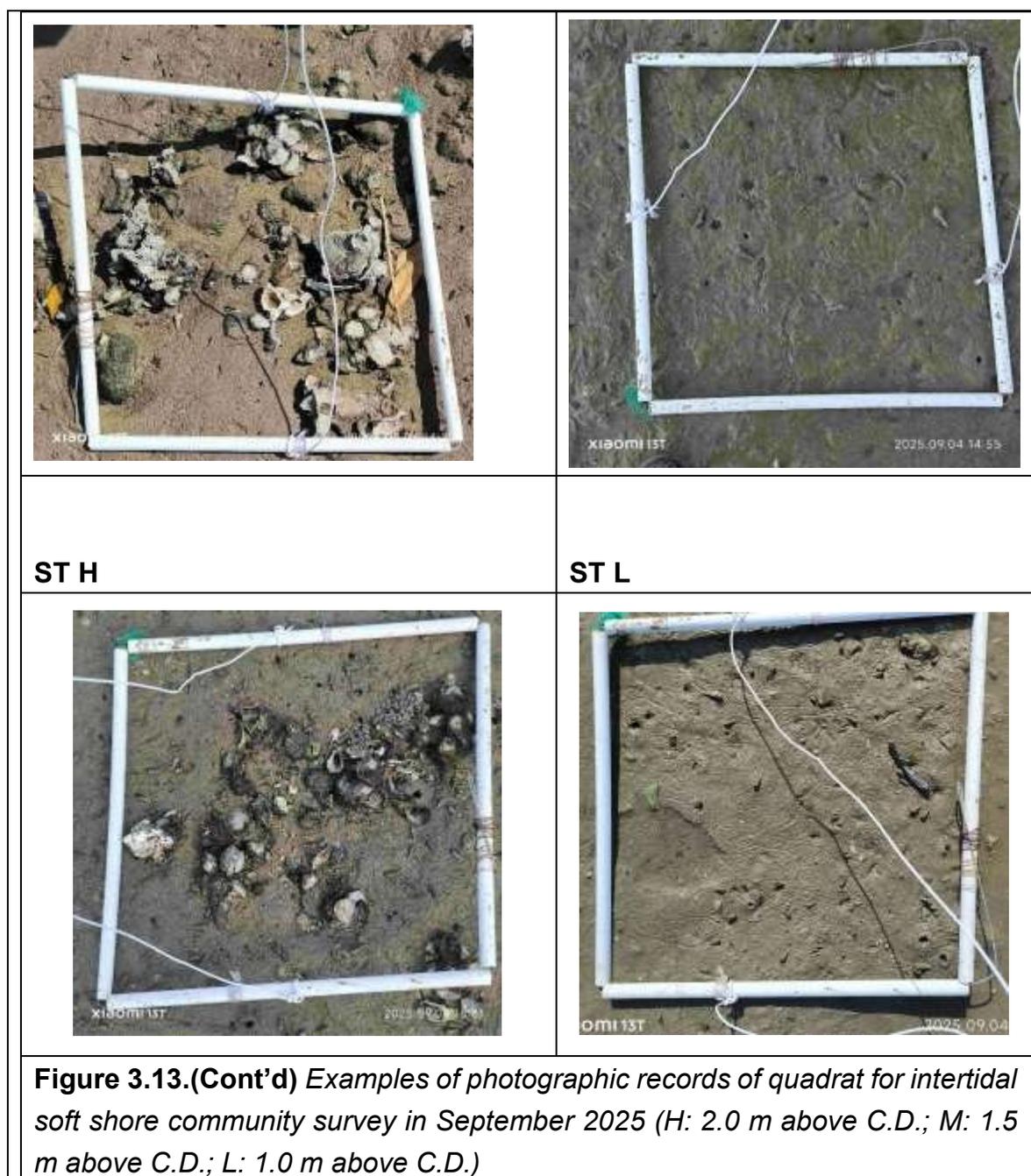
Table 3.3. *Relative distribution (%) of types of substrata along the horizontal transect at every tidal level and in every sampling zone.*

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

<p>TC1 H</p>	<p>TC1 L</p>
	
<p>TC2 H</p>	<p>TC2 L</p>
	
<p>Figure 3.13. Examples of photographic records of quadrat for intertidal soft shore community survey in September 2025 (H: 2.0 m above C.D.; M: 1.5 m above C.D.; L: 1.0 m above C.D.)</p>	
<p>TC3 H</p>	<p>TC3 L</p>



**Table 3.4** Total abundance, density and number of taxon of every phylum

Phylum	Total Abundance	%	Density (ind. m ⁻²)	Number of Taxon
<u>Sep 2025</u>				
Mollusca	6393	90.2	213	32
Arthropoda	468	6.6	16	6
Annelida	92	1.3	3	3
Sipuncula	78	1.1	3	2
Nemertea	46	0.6	2	1
Cnidaria	13	0.2	0	1
Platyhelminthes	1	0.0	0	1
Total	7091			

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			TC2			TC3			ST		
	Density	Density	Density	Density	Density	Density	Density	Density	Density	Density	Density	
	TC1	% (ind. m ⁻²)		TC2	% (ind. m ⁻²)		TC3	% (ind. m ⁻²)		ST	% (ind. m ⁻²)	
Mollusca	1498	94.0	200	1433	83.2	191	1716	90.2	229	1746	93.2	233
Arthropoda	48	3.0	6	246	14.3	33	106	5.6	14	68	3.6	9
Annelida	20	1.3	3	0	0.0	0	48	2.5	6	24	1.3	3
Sipuncula	23	1.4	3	20	1.2	3	17	0.9	2	18	1.0	2
Nemertea	0	0.0	0	17	1.0	2	14	0.7	2	15	0.8	2
Cnidaria	4	0.3	1	7	0.4	1	0	0.0	0	2	0.1	0
Platyhelminthes	0	0.0	0	0	0.0	0	1	0.1	0	0	0.0	0
Sub-total	1593			1723			1902			1873		

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>	170	56	56
	G	<i>Monodonta labio</i>	41	14	70
Mid	Bi	<i>Saccostrea cucullata</i>	28	17	17
	G	<i>Monodonta labio</i>	30	19	36
	G	<i>Batillaria zonalis</i>	33	21	57
	G	<i>Batillaria multiformis</i>	34	22	79
Low	G	<i>Batillaria multiformis</i>	43	25	25
	G	<i>Batillaria zonalis</i>	37	21	46

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>	170	55	55
	G	<i>Monodonta labio</i>	42	14	69
Mid	Bi	<i>Saccostrea cucullata</i>	42	20	20
	G	<i>Monodonta labio</i>	35	17	37
	G	<i>Batillaria zonalis</i>	34	16	53
	G	<i>Batillaria multiformis</i>	38	18	71
Low	Bi	<i>Barbatia virescens</i>	32	19	19
	G	<i>Batillaria multiformis</i>	51	30	49

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>	165	54	54
	G	<i>Monodonta labio</i>	40	13	67
Mid	Bi	<i>Saccostrea cucullata</i>	35	15	15
	G	<i>Monodonta labio</i>	36	16	31
	G	<i>Batillaria multiformis</i>	36	16	47
	G	<i>Batillaria zonalis</i>	42	18	65
Low	Bi	<i>Barbatia virescens</i>	45	20	20
	G	<i>Batillaria zonalis</i>	44	20	40
	G	<i>Batillaria multiformis</i>	49	22	62

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>	176	51	51
	G	<i>Monodonta labio</i>	40	12	63
	G	<i>Batillaria multiformis</i>	48	14	77
Mid	Bi	<i>Saccostrea cucullata</i>	37	16	16
	G	<i>Monodonta labio</i>	35	18	34
	G	<i>Batillaria multiformis</i>	44	19	53
	G	<i>Batillaria zonalis</i>	45	19	72
Low	G	<i>Batillaria zonalis</i>	49	29	29
	G	<i>Batillaria multiformis</i>	57	33	62

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	10	10	304	213	1.4	1.77	0/6	0.85
	M	9		160		1.9		0.8	
	L	10		174		2.0		0.9	
TC2	H	11	11	308	230	1.5	1.80	0.7	0.80
	M	11		209		2.0		0.9	
	L	10		172		1.9		0.8	
TC3	H	9	10	306	254	1.4	1.80	0.7	0.83
	M	11		231		2.0		0.9	
	L	9		224		2.0		0.9	
ST	H	10	10	342	251	1.5	1.77	0.7	0.80
	M	11		236		2.1		0.9	
	L	9		174		1.7		0.8	

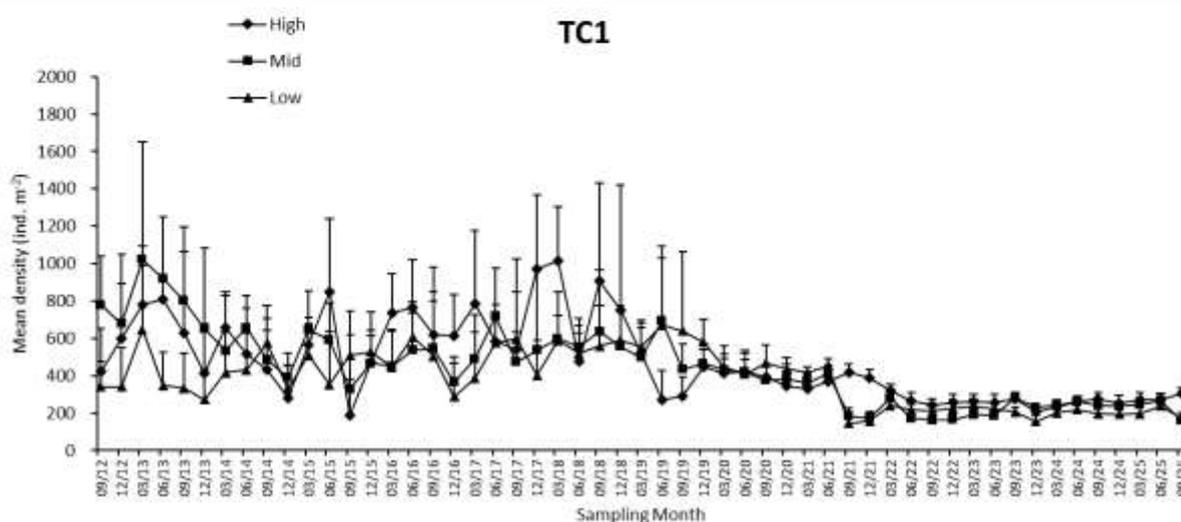
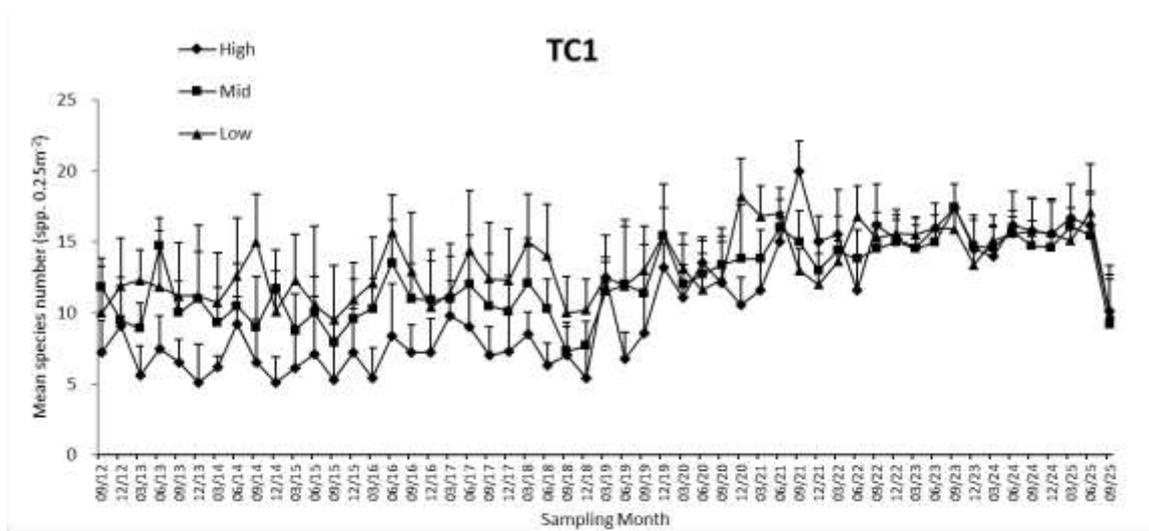


Figure 3.14 Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC1

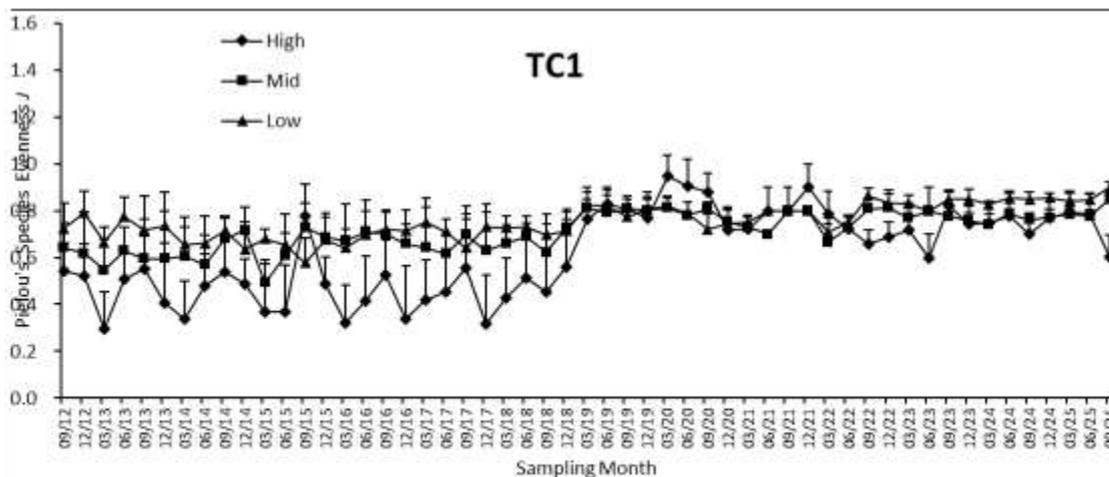
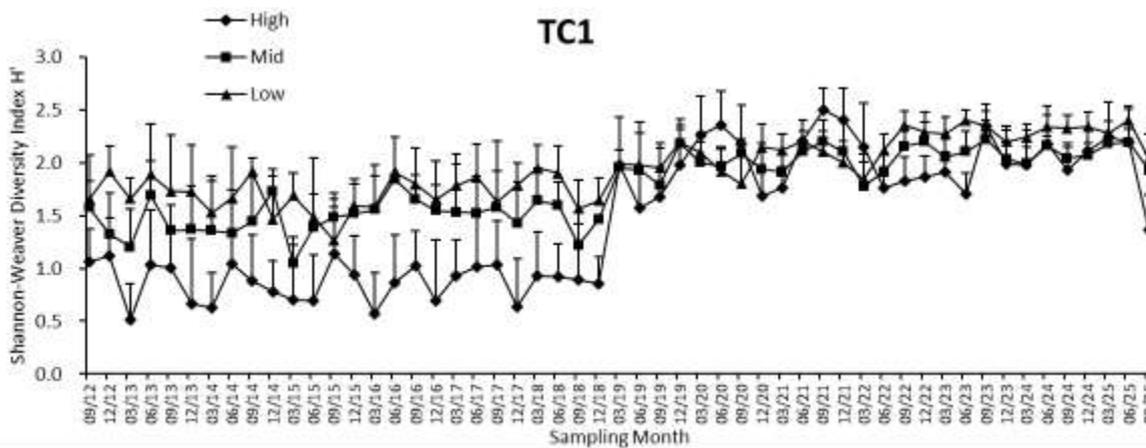


Figure 3.14(Cont'd) Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC1

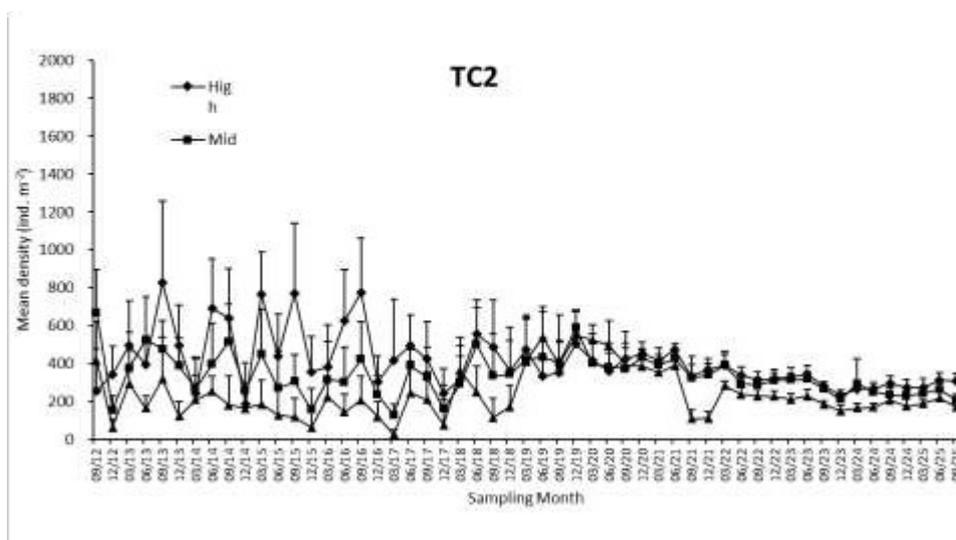
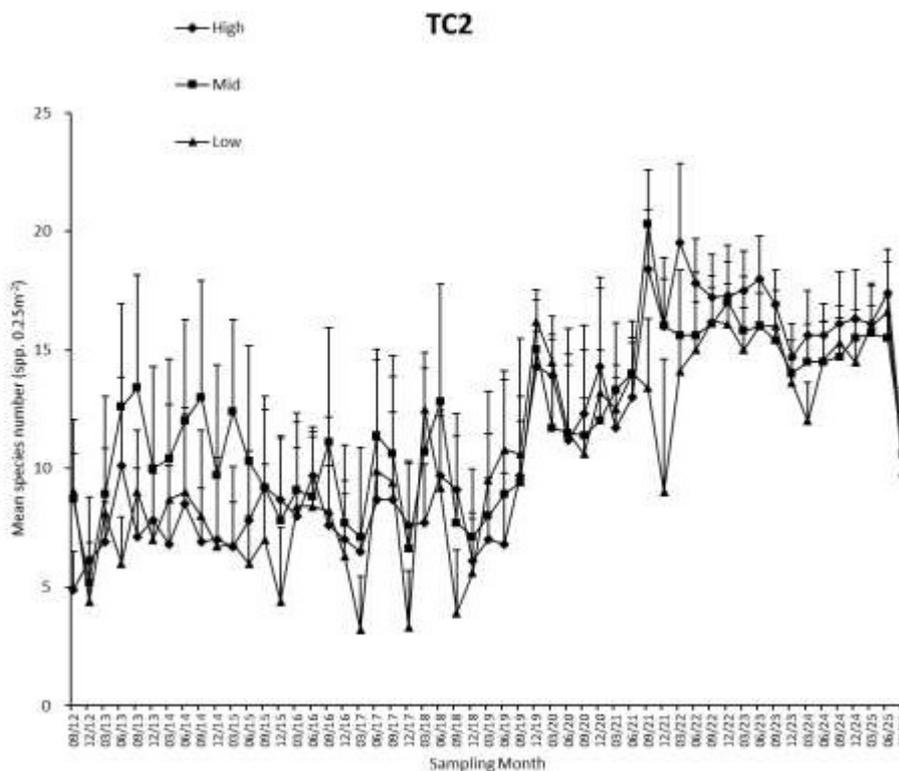


Figure 3.15 Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC2.

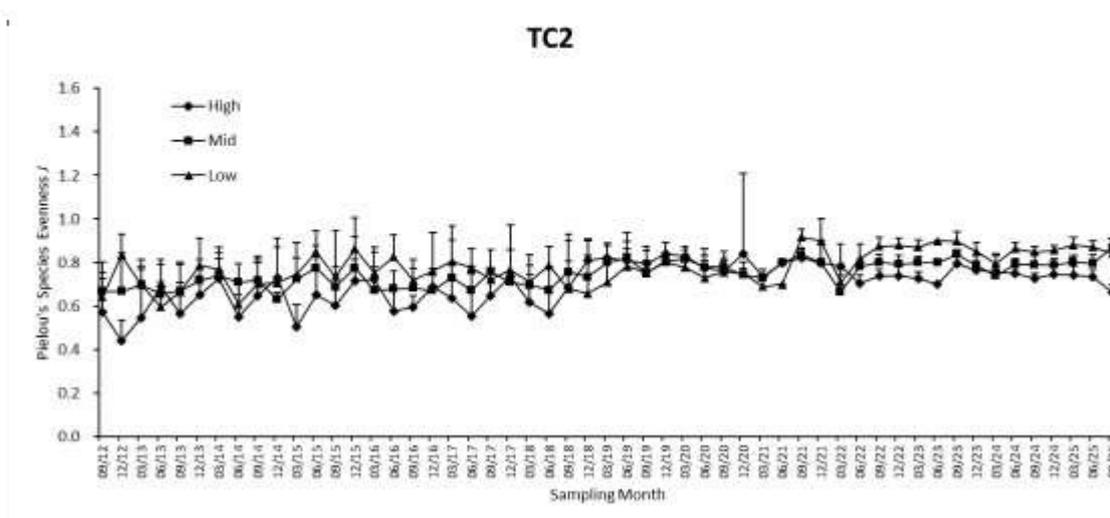
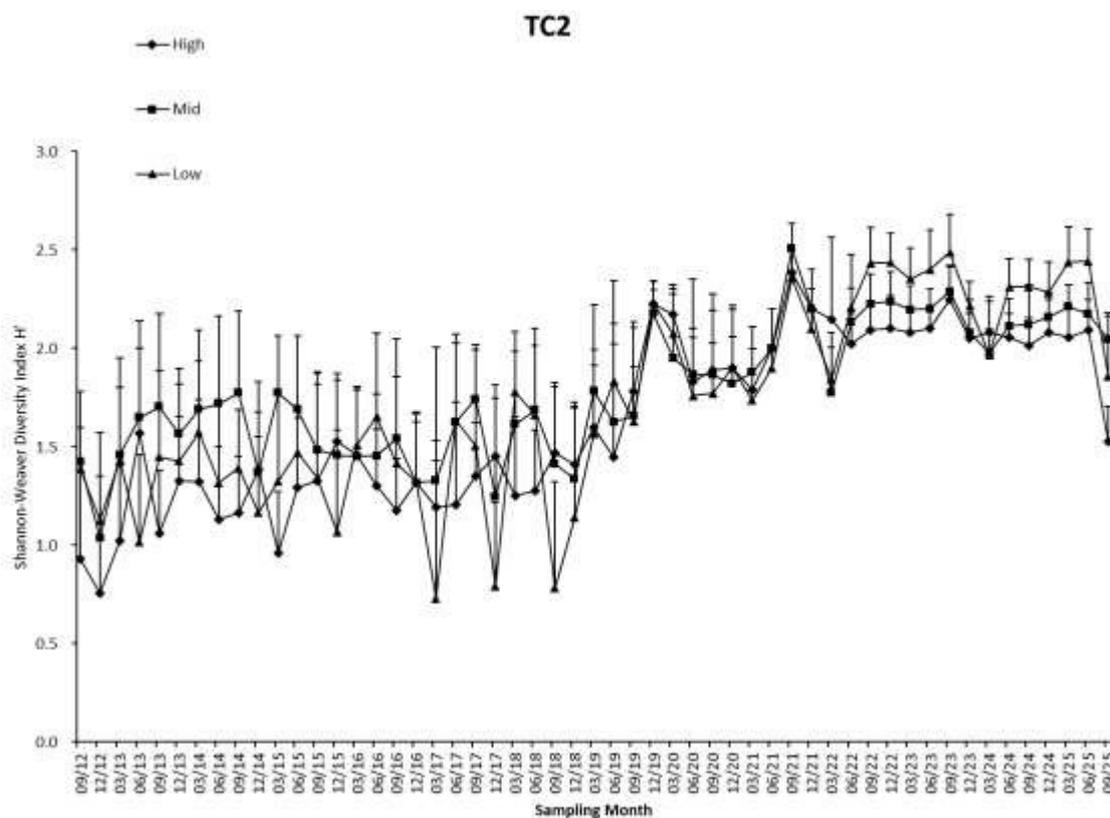


Figure3.15 (Cont'd) Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC2.

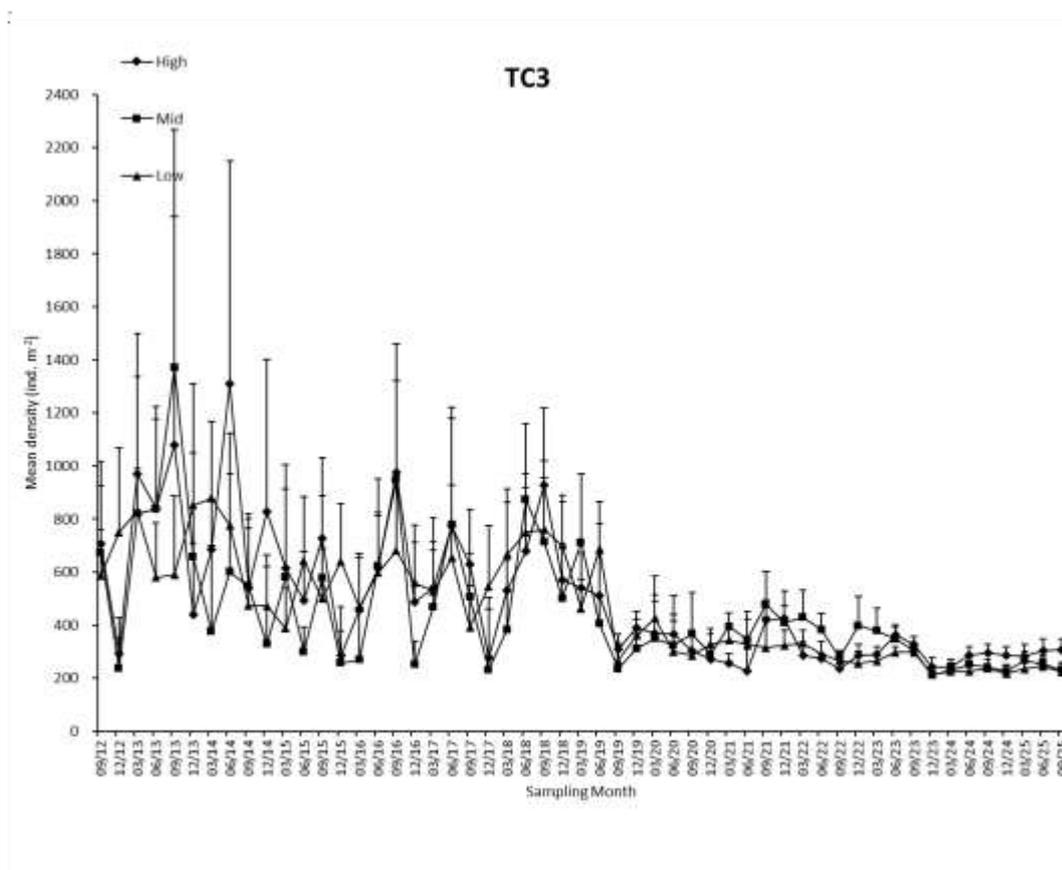
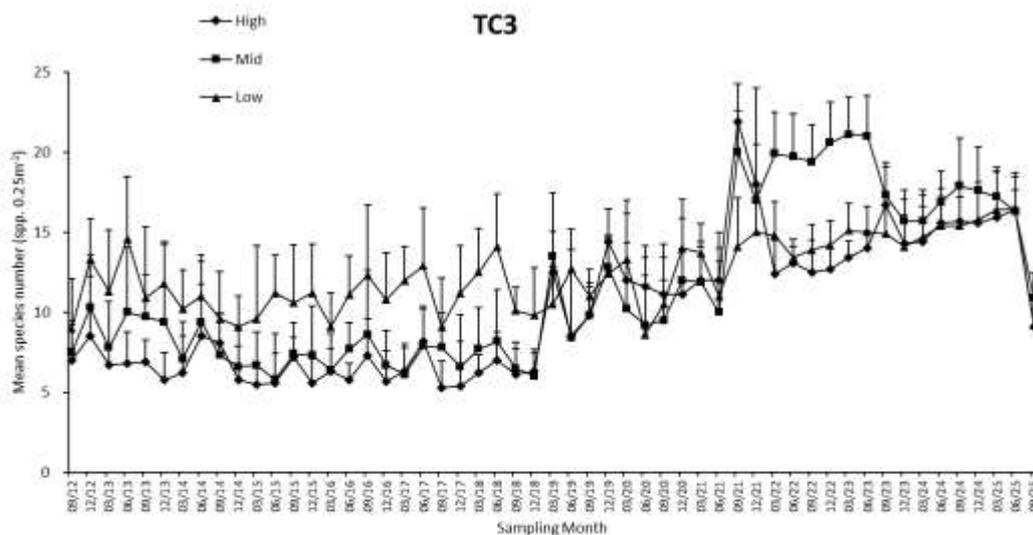


Figure 3.16 Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC3.

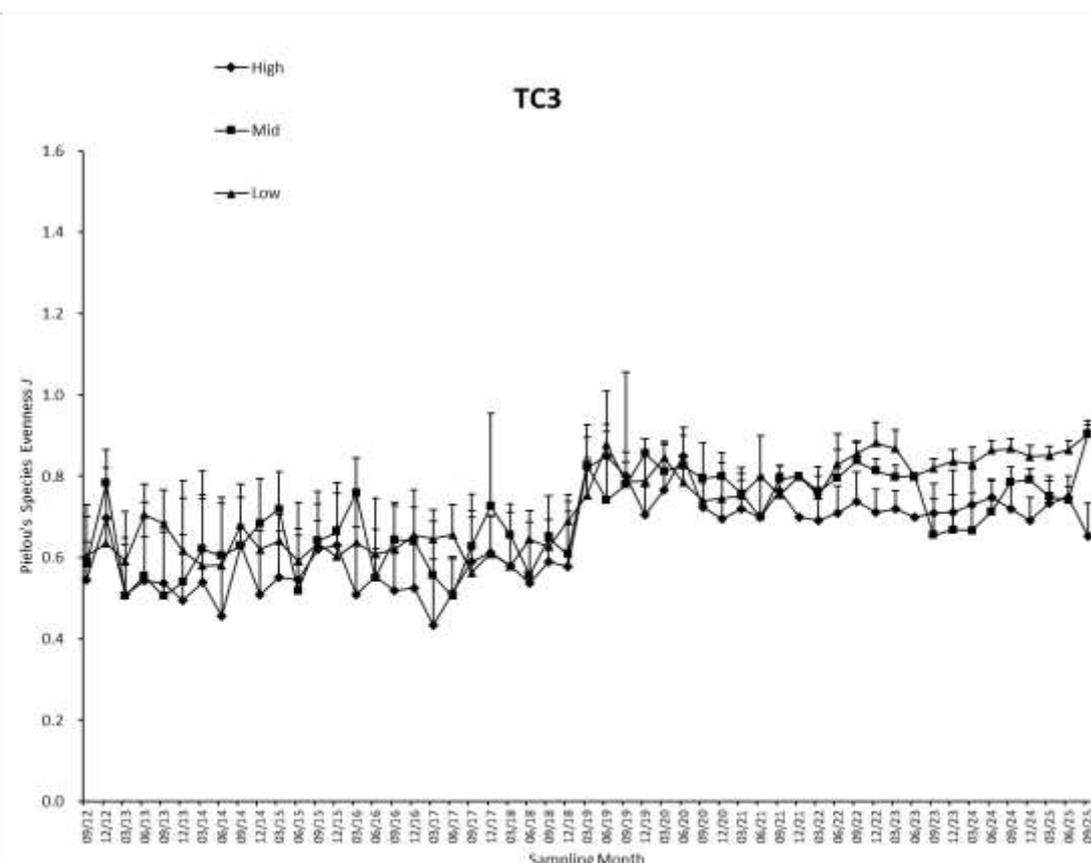
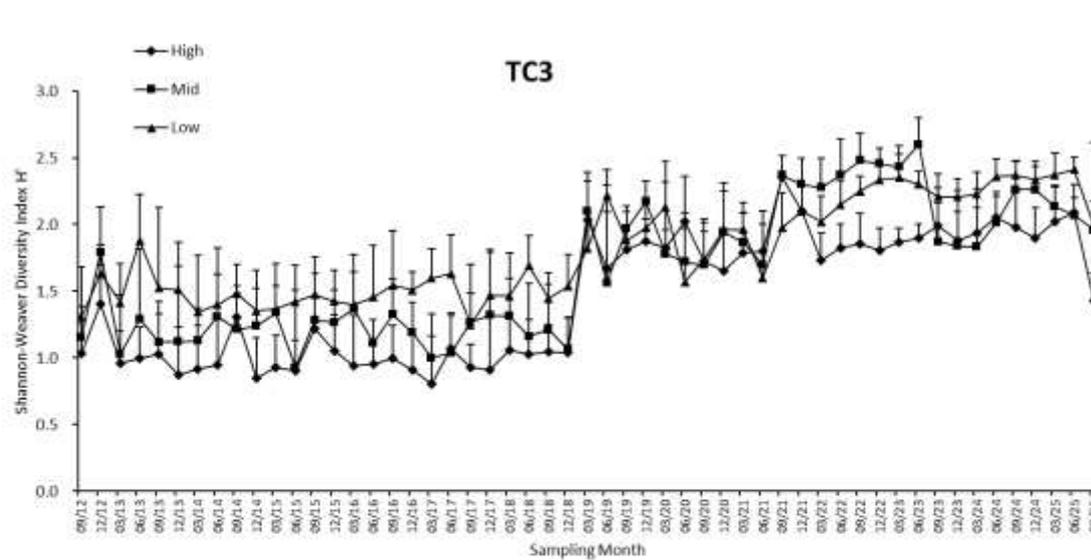


Figure 3.16 (Cont'd) Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC3.

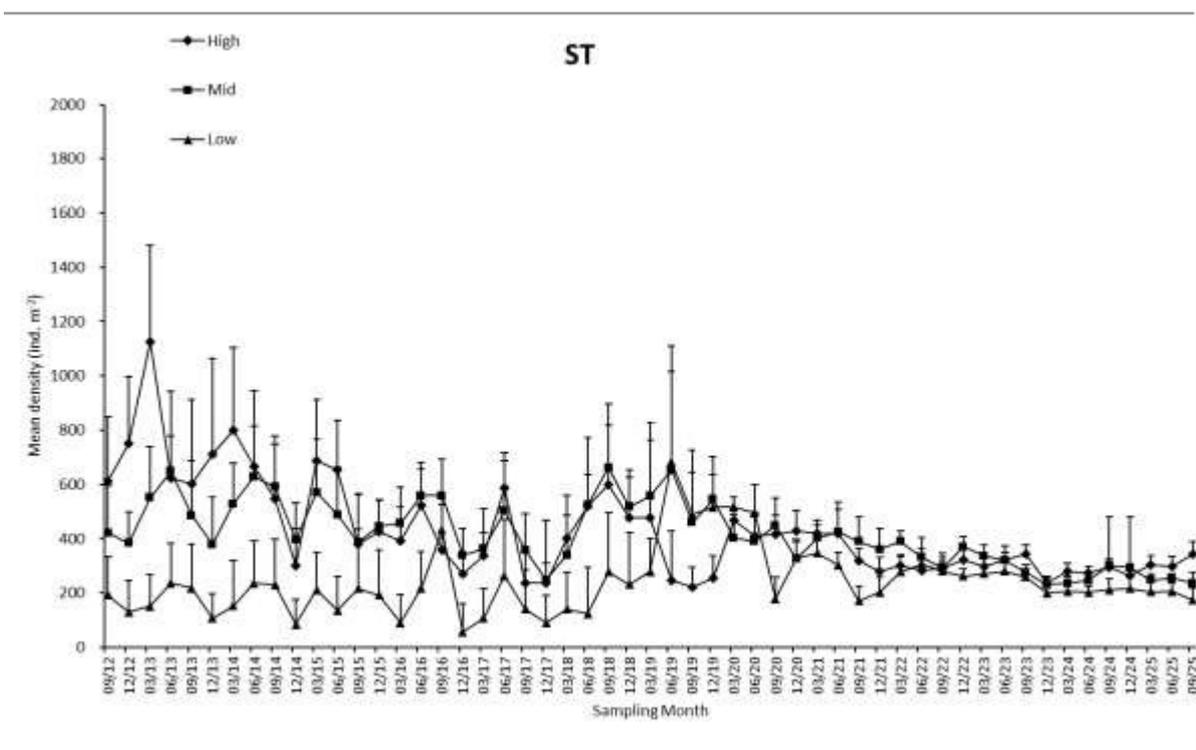
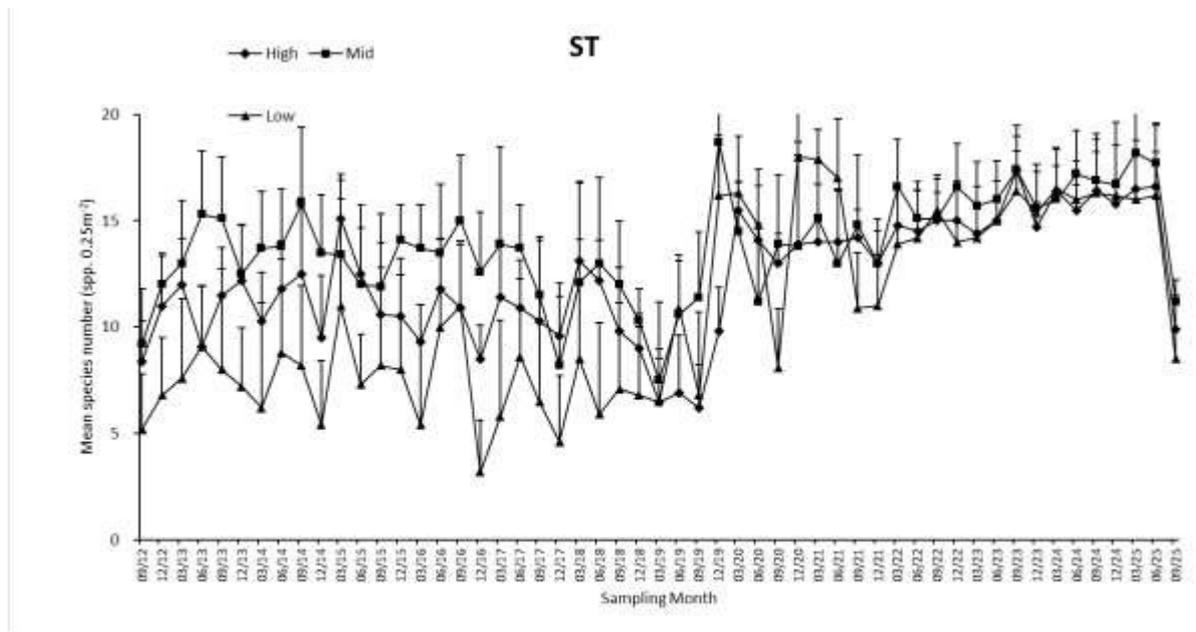


Figure 3.17 Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone ST.

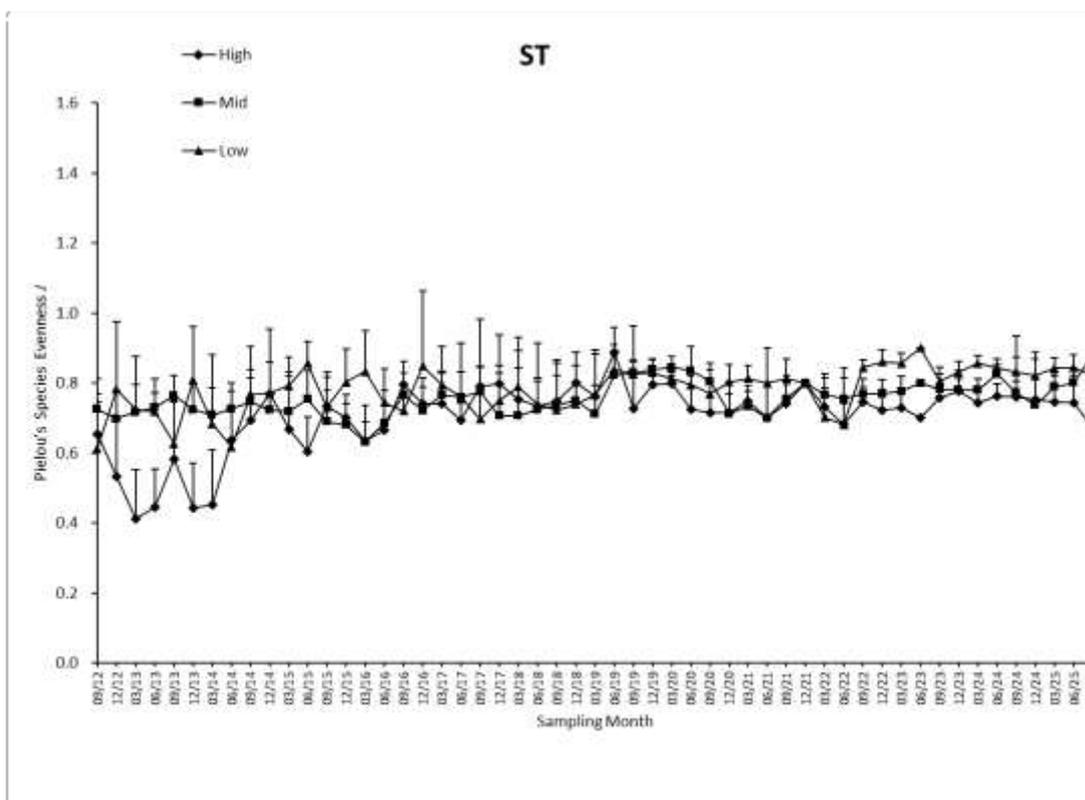
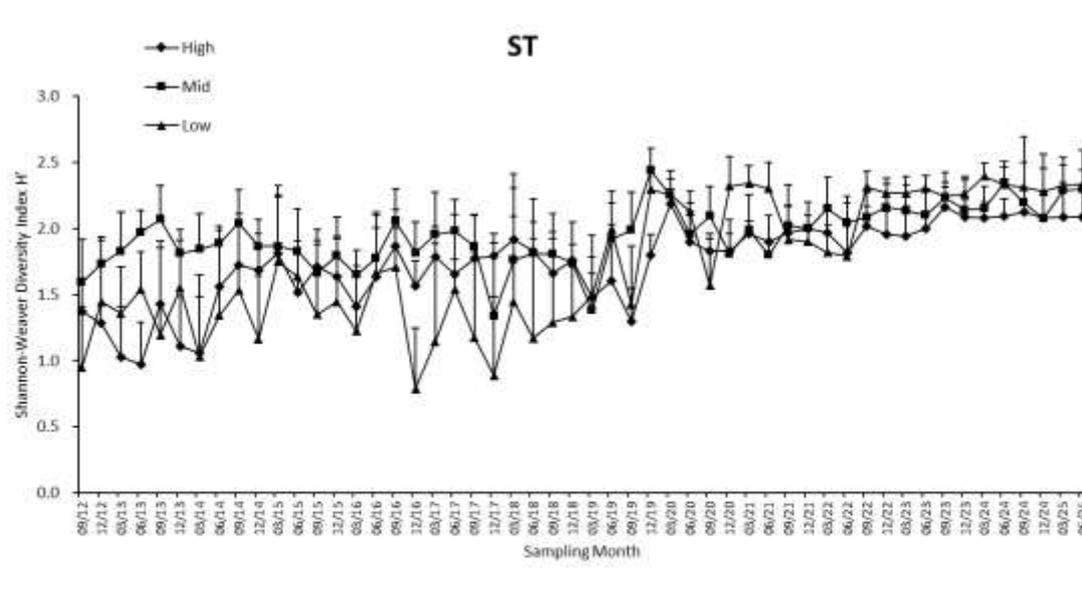
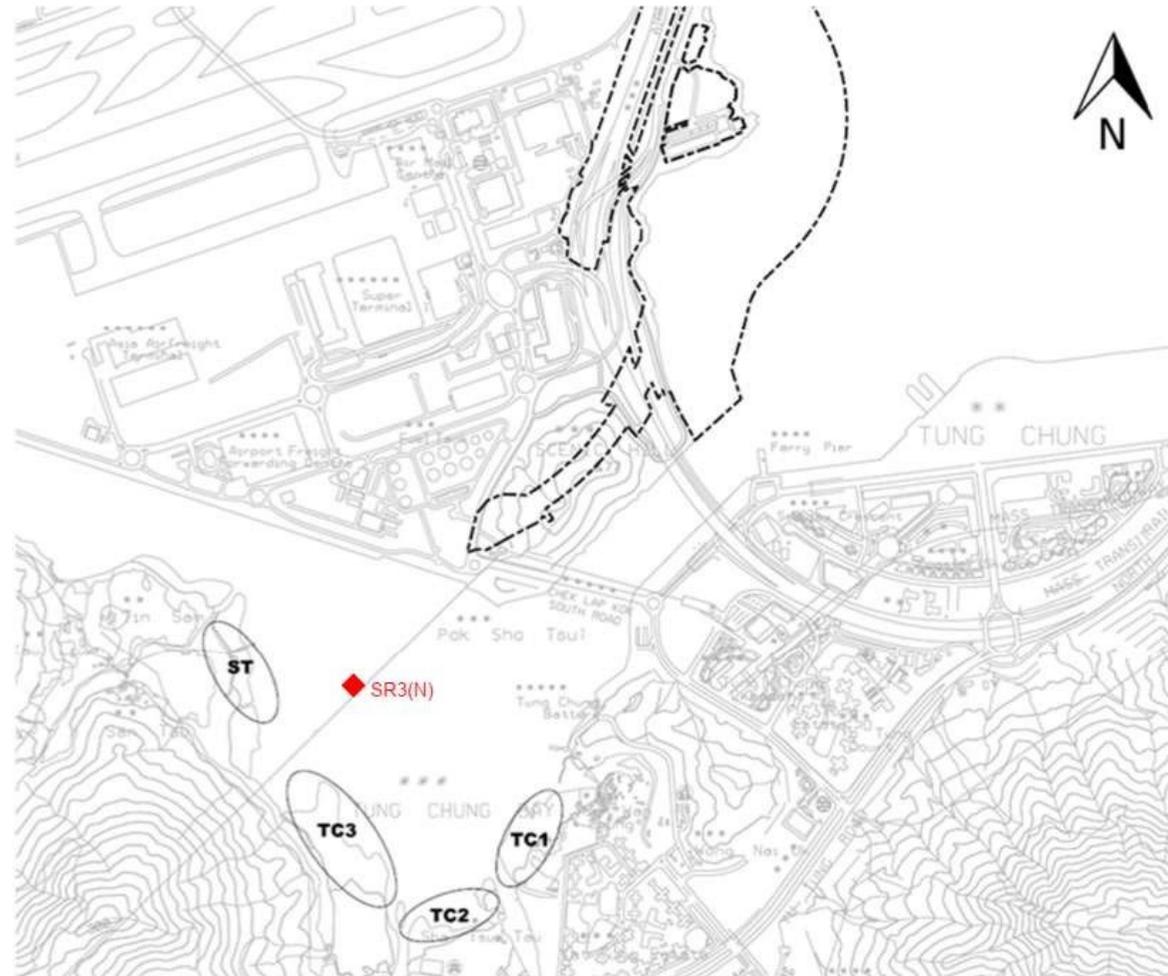


Figure 3.17(Cont'd) Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone ST.



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





Annex II Record of horseshoe crab (juvenile) 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>
		No record		
		No. of ind.		
		<u>Sampling site ST</u> (Search hour = 3 hrs)	<i>Carcinoscorpius rotundicauda</i>	<i>Tachypleus tridentatus</i>
		No record		
		No. of ind.	0	0

Remark: size of mating pair or large individual (excluded from data analysis); Substratum type; G = Gravel and Boulders, M = Soft mud, S = Sand



Annex III Record of seagrass beds survey in every sampling zone. (updated)

Estimated area (m ²)	Estimated coverage (%)		GPS coordinate		Remark
TC1& TC2 (search hour = 2 hrs), No record					
TC3 <i>Halophila ovalis</i> (search hour = 3 hrs), No record					
ST <i>Zostera Japonica</i> (search hour = 3 hrs)					
30	30-80	horizontal	22°17'012"N	113°55'029"E	A horizontal strand of seagrass bed near the seaward side of mangrove area at tidal level 2.0 m above C.D.
		line	22°17'012"N	113°55'029"E	
ST <i>Halophila ovalis</i> (search hour = 3 hrs)					
600	10-40	horizontal	22°17'018"N	113°55'030"E	A horizontal strand of seagrass bed near the seaward side of mangrove area at tidal level 1.5 m above C.D.
		line	22°17'018"N	113°55'030"E	
400	5-30	horizontal	22°17'017"N	113°55'031"E	A horizontal strand of seagrass bed near the seaward side of mangrove area at tidal level 1.5 m above C.D.
		line	22°17'017"N	113°55'031"E	
140	1-5	horizontal	22°17'015"N	113°55'030"E	A horizontal strand of seagrass bed near the seaward side of mangrove area at tidal level 1.5 m above C.D.
		line	22°17'015"N	113°55'030"E	
30	0.5-1	horizontal	22°17'013"N	113°55'029"E	A horizontal strand of seagrass bed near the seaward side of mangrove area at tidal level 1.5 m above C.D.
		line	22°17'013"N	113°55'029"E	
20	0.1-0.5	horizontal	22°17'012"N	113°55'032"E	A horizontal strand of seagrass bed near the seaward side of mangrove area at tidal level 1.5 m above C.D.
		line	22°17'012"N	113°55'032"E	
10	<0.1	horizontal	22°17'010"N	113°55'032"E	A horizontal strand of seagrass bed near the seaward side of mangrove area at tidal level 1.5 m above C.D.
		line	22°17'010"N	113°55'032"E	



Annex 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>Patelloida pygmaea</i>
Animalia	Mollusca	Polyplocophora	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

Sep 2025

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	<i>Balanus amphitrite</i>			0				1						1								2
Bi	<i>Barbatia virescens</i>	2				1		3			1					0		1		2		10
Bi	<i>Brachidontes variabilis</i>															1						1
Bi	<i>Glaucanome chinensis</i>															0		2		0		2
Bi	<i>Saccostrea cucullata</i>	44		42		36		37		39	1	40		61		51		37		36		424
Bi	<i>Xenostrobus atratus</i>			2																1		3
C	<i>Gaetice depressus</i>						1									1				0	1	3
C	<i>Metopograpsus latifrons</i>		1	1				3														5
C	<i>Pagurus dubius</i>																			2		2
G	<i>Batillaria multiformis</i>	6		4		15		6		5		8		7		5		4		3		63
G	<i>Batillaria zonalis</i>	11		6		6		7		7		5		8		9		7		6		72
Cn	<i>Diadumene lineata</i>																					0
G	<i>Cellana toreuma</i>			2					1		1					3				3		10
G	<i>Chlorostoma argyrostomum</i>							2										3				5
G	<i>Clithon faba</i>	2				2		1														5



G	<i>Littoraria articulata</i>	2	1						1	1	1	6	
G	<i>Lottia dorsuosa</i>			1	2	1						4	
G	<i>Lottia luchuana</i>		1		1						1	3	
G	<i>Lunella coronata</i>											0	
G	<i>Lunella granulata</i>											0	
G	<i>Monodonta labio</i>	15	1	11	14	14	9	8	8	8	6	9	103
G	<i>Nipponacmea concinna</i>										3	1	4
G	<i>Nodilittorina radiata</i>						2				2		4
G	<i>Patelloida pygmaea</i>						3						3
P	<i>Nereididae spp.</i>					1				0	1	1	3
G	<i>Pirenella asiatica</i>	2	1	3			1		2	1	0		10
P	<i>Sabellidae imbricatus</i>					1					1		2
Po	<i>Lepidozona spp.</i>			0	1	1	1				3	1	7
Sp	<i>Siphonosoma sp.</i>		1				0	1		1	0	0	3
												Total	759

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

Sep 2025	Sampling Zone TC1	Mid tidal level (1.5 m above C.D.)																				Sub-total
		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	
Ba	<i>Balanus amphitrite</i>	1		1				1				1				0					0	4
Bi	<i>Barbatia virescens</i>							0				0					1		1			2
Bi	<i>Brachidontes variabilis</i>	1		1				1				1				2			0			6
Bi	<i>Glauconome chinensis</i>							2				2							1			5
Bi	<i>Saccostrea cucullata</i>	7		8		5		10		6		5		4		9		7		8		69
Bi	<i>Xenostrobus atratus</i>																	5	1			6
C	<i>Gaetice depressus</i>																			1		1
C	<i>Hemigrapsus penicillatus</i>	1																				1
C	<i>Metopograpsus latifrons</i>																					0
G	<i>Batillaria multiformis</i>	10		9		8		9		7		12		13		2		8		8		86
G	<i>Batillaria zonalis</i>	7		8		11		4		6		8		11		11		7		9		82
G	<i>Chlorostoma argyrostomum</i>	2																				2
G	<i>Clithon faba</i>													1						1		2
G	<i>Clithon retropictus</i>			1																		1
G	<i>Littoraria articulata</i>	2				2										2				1		7
G	<i>Lottia dorsuosa</i>	1		1				2										1				5
G	<i>Lunella coronata</i>															2						2



G	<i>Lunella granulata</i>											0
G	<i>Monodonta labio</i>	8	6	7	8	7	9	8	6	11	5	75
G	<i>Nerita squamulata</i>	2										2
G	<i>Nipponacmea concinna</i>							1				1
G	<i>Nodilittorina radiata</i>	1	1						1		1	4
G	<i>Patelloida pygmaea</i>							1		1		2
G	<i>Pirenella asiatica</i>	1	2			2	0	2	1		1	9
P	<i>Nereididae spp.</i>		1				1	2	1	0		7
Po	<i>Lepidozona spp.</i>	1			0	0		2	1			4
Sp	<i>Siphonosoma sp.</i>				0	0	3		2	2	1	8
Sp	<i>Sipunculus nudus</i>			1	1	1	1	2	1			7
											Total	400

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

Sep 2025	Sampling Zone TC1	Low tidal level (0.5 m above C.D.)																				Sub-total
		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	
Ba	<i>Balanus amphitrite</i>																				2	2
Bi	<i>Barbatia virescens</i>																				2	2
Bi	<i>Anomalocardiasquamosa</i>	3								2					3						2	10
Bi	<i>Brachidontes variabilis</i>	3																				3
Bi	<i>Glauconome chinensis</i>																			3	1	4
Bi	<i>Saccostrea cucullata</i>			3								3										6
Bi	<i>Xenostrobus atratus</i>	3				3		3						3								12
C	<i>Gaetice depressus</i>															3					3	6
C	<i>Hemigrapsus penicillatus</i>					3								2								5
C	<i>Metopograpsus latifrons</i>	2		2						2		3								3		12
C	<i>Pagurus dubius</i>			2																	3	5
Cn	<i>Diadumene lineata</i>													2		2						4
G	<i>Batillaria multiformis</i>	15		1		1		1		6		4		1		11		9		13		108
G	<i>Batillaria zonalis</i>	7		8		8		1		1		1		3		9		12		9		93
G	<i>Chlorostoma argyrostomum</i>																				2	2



G	<i>Clithon retropictus</i>	2	2									4
G	<i>Littoraria articulata</i>								3			3
G	<i>Lottia dorsuosa</i>			3			3	2		5	3	16
G	<i>Lottia luchuana</i>				3		3		2			8
G	<i>Lunella coronata</i>	2								3	2	7
G	<i>Lunella granulata</i>		3					3				6
G	<i>Monodonta labio</i>			3		2				6		11
G	<i>Nerita lineata</i>	2										2
G	<i>Nerita polita</i>							2	3	5	2	12
G	<i>Nerita squamulata</i>										5	5
G	<i>Nipponacmea concinna</i>	2	6	3	3		3	2		3		22
G	<i>Nodilittorina radiata</i>	6	6	6	6	5	5			2	3	39
P	<i>Nereididae spp.</i>					2				3		5
P	<i>Sabellidae imbricatus</i>								3			3
Po	<i>Lepidozona spp.</i>	2		3	3		3			1		12
Sp	<i>Siphonosoma sp.</i>										2	2
Sp	<i>Sipunculus nudus</i>									3		3
											Total	434

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

Sep 2025	Sampling Zone TC2	High tidal level (2.0 m above C.D.)																				Sub-total	
		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		
Ba	<i>Balanus amphitrite</i>					0		0								0					3		3
Bi	<i>Barbatia virescens</i>	3		3				1								1		3					11
Bi	<i>Brachidontes variabilis</i>	2																			2		4
Bi	<i>Glaucanome chinensis</i>	1		1										2		2							6
Bi	<i>Saccostrea cucullata</i>	4		4		4		3		3		4		46		36	1	53			51		426
Bi	<i>Xenostrobus atratus</i>	0		5		1		3		9		1											5
C	<i>Gaetice depressus</i>	0				2		2															4
C	<i>Hemigrapsus penicillatus</i>	3		2										2							1		8
C	<i>Metopograpsus latifrons</i>																	3			3		6
C	<i>Metopograpsus quadridentatus</i>	0				2										1		1					4
Cn	<i>Diadumene lineata</i>	0																					0
G	<i>Batillaria multiformis</i>	5		5		1		6		7		7		7		11	1	5			7		72
G	<i>Batillaria zonalis</i>	3		4		5		7				6		5		5		6			8		49
G	<i>Chlorostoma argyrostomum</i>									2													2
G	<i>Clithon retropictus</i>	0																3					3

Ecological impact mudflat monitoring (Quarterly) at Tung Chung 2025/09



CHKEC

G	<i>Littoraria articulata</i>	1	2					1	1					5
G	<i>Lottia dorsuosa</i>											1		1
G	<i>Lunella coronata</i>								1	1				2
G	<i>Lunella granulata</i>	1							1					2
G	<i>Monodonta labio</i>	1	1	1	8	9	1	11	10	6	8			106
		5	1	5			3							
G	<i>Nerita squamulata</i>	0						1			3			4
G	<i>Nipponacmea concinna</i>				2									2
G	<i>Nodilittorina radiata</i>		2			2		1	1	2				8
G	<i>Patelloida pygmaea</i>	2	1	2							0	3		8
G	<i>Pirenella asiatica</i>				2						2			4
G	<i>Pirenella incisa</i>							3	2	0				5
Ne	<i>Nemertea sp.</i>	0				1					1	3		5
Po	<i>Lepidozona spp.</i>	1				2					1			4
Sp	<i>Siphonosoma sp.</i>	1		1	1		2		1	1	2	1	1	11
													Total	770

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

Sep 2025		Sampling Zone TC2		Mid tidal level (1.5 m above C.D.)																				Sub-total
Gp	Taxon	1		2		3		4		5		6		7		8		9		10				
		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		2		
Bi	<i>Barbatia virescens</i>			1		1		1				1				1					1	6		
Bi	<i>Brachidontes variabilis</i>	4								1				3							3	11		
Bi	<i>Glauconome chinensis</i>									1											1	2		
Bi	<i>Saccostrea cucullata</i>	10		11		14		9		8		11		9		12		7		14		105		
Bi	<i>Xenostrobus atratus</i>													1								1		
C	<i>Gaetice depressus</i>			1				1		5										5		12		
C	<i>Metopograpsus latifrons</i>	4				3		3		3				3		5					5	26		
C	<i>Pagurus dubius</i>			2				5												3		10		
Cn	<i>Diadumene lineata</i>	4														1					1	6		
G	<i>Batillaria multiformis</i>	16		11		6		8		8		13		7		11		6		10		96		
G	<i>Batillaria zonalis</i>	8		4		10		11		14		9		3		8		8		9		84		
G	<i>Clithon faba</i>																			2	2	4		
G	<i>Clithon retropictus</i>	2														3						5		
G	<i>Littoraria articulata</i>			4						3		1										8		
G	<i>Lottia dorsuosa</i>	2												1								3		



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

Sep 2025		Sampling Zone TC2		Low tidal level (0.5 m above C.D.)																				Sub-total
Gp	Taxon	1		2		3		4		5		6		7		8		9		10				
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C			
Ba	<i>Balanus amphitrite</i>																				1	1		
Bi	<i>Anomalocardia squamosa</i>			1																		1		
Bi	<i>Barbatia virescens</i>	4		7		7		8		10		11		12		10		7		5		81		
Bi	<i>Brachidontes variabilis</i>	1																			1	2		
Bi	<i>Glaucanome chinensis</i>						2		1				2		1							6		
Bi	<i>Isognomon isognomum</i>	2					1		2									1		2		8		
Bi	<i>Saccostrea cucullata</i>					2																2		
Bi	<i>Xenostrobus atratus</i>	1													2		3					6		
C	<i>Gaetice depressus</i>			2			2		2				2									8		
C	<i>Hemigrapsus penicillatus</i>					2			1						1		1					5		
C	<i>Metopograpsus latifrons</i>	2																			2	4		
C	<i>Pagurus dubius</i>						1						1				3					5		
Cn	<i>Diadumene lineata</i>				1		2															3		
G	<i>Batillaria multiformis</i>	14		16		11		16		17		11		11		14		11		7		128		
G	<i>Batillaria zonalis</i>	11		13		12		15		4		8		7		6		13		9		98		
G	<i>Clithon retropictus</i>														2							2		



G	<i>Littoraria articulata</i>		2			2	3	2		9
G	<i>Lottia dorsuosa</i>	1			1				3	5
G	<i>Lunella coronata</i>								2	2
G	<i>Lunella granulata</i>		2	2	1		3	2		10
G	<i>Monodonta labio</i>	2				2				4
G	<i>Nipponacmea concinna</i>			2				1		3
G	<i>Nodilittorina radiata</i>	3	3	3		3		2	2	16
G	<i>Patelloida pygmaea</i>					1				1
G	<i>Pirenella incisa</i>				2	2	3		1	8
Po	<i>Lepidozona spp.</i>		2	2				2	1	7
Sp	<i>Siphonosoma sp.</i>				2				2	4
Sp	<i>Sipunculus nudus</i>						2			2
									Total	431

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

Sep 2025		Sampling Zone TC3		High tidal level (2.0 m above C.D.)																			
Gp	Taxon	1		2		3		4		5		6		7		8		9		10		Sub-total	
		Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C	Q	C		
Bi	<i>Barbatia virescens</i>																					3	3
Bi	<i>Brachidontes variabilis</i>	1		1		1											3						6
Bi	<i>Glaucanome chinensis</i>																					1	1
Bi	<i>Saccostrea cucullata</i>	37		36		39		37		41		44		45		37		48		49			413
Bi	<i>Xenostrobus atratus</i>																				2		2
C	<i>Gaetice depressus</i>											1		1									2
C	<i>Metopograpsus latifrons</i>	1																					1
C	<i>Pagurus dubius</i>	7		8		4		7		6		11		7		9		6		9			74
G	<i>Batillaria multiformis</i>	6	1	11		16		9		7		3		8		4		8		2			75
G	<i>Batillaria zonalis</i>																						0
G	<i>Clithon oualaniensis</i>																						0
G	<i>Clithon retropictus</i>	2		2						1		3		3		1		3					15
G	<i>Littoraria articulata</i>			1		2																	3
G	<i>Lunella coronata</i>																	1		3			4
G	<i>Lunella granulata</i>																						0

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G	<i>Monodonta labio</i>	11	7	8	9	11	12	4	8	8	21	99
G	<i>Nerita chamaeleon</i>											0
G	<i>Nerita polita</i>		2		1						6	9
G	<i>Nerita squamulata</i>			1						4		5
G	<i>Nipponacmea concinna</i>	2	2				3		1			8
G	<i>Nodilittorina radiata</i>											0
G	<i>Patelloida pygmaea</i>	1		2	1	1	3	4	2		7	21
G	<i>Pirenella incisa</i>		1	3						3		7
G	<i>Thais clavigera</i>	2										2
P	<i>Nereididae spp.</i>			1			3			1		5
P	<i>Perinereis sp.</i>					1			3		1	5
P	<i>Sabellidae imbricatus</i>		1	2								3
PI	<i>Platyhelminthes</i>										1	1
											Total	764

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, PI: 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

Sep 2025		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	<i>Balanus amphitrite</i>	4				3									3						2	12	
Bi	<i>Barbatia virescens</i>			4						5		4				1		2				16	
Bi	<i>Brachidontes variabilis</i>	1		3						3												7	
Bi	<i>Glauconome chinensis</i>											2										2	
Bi	<i>Saccostrea cucullata</i>	7		10		11		6		13		5		8		8		13		7		88	
Bi	<i>Xenostrobus atratus</i>													2						2		4	
C	<i>Gaetice depressus</i>	2						3														5	
C	<i>Metopograpsus latifrons</i>																					0	
G	<i>Batillaria multiformis</i>	8		9		12		7		11		7		9		9		14		4		90	
G	<i>Batillaria zonalis</i>	9		8		11		8	2	9		9		12		10		15		11		104	
G	<i>Clithon faba</i>			3																		3	
G	<i>Clithon oualaniense</i>	3						5								4						12	
G	<i>Clithon retropictus</i>													1				4				5	
G	<i>Littoraria articulata</i>	5														5				5		15	
G	<i>Lottia dorsuosa</i>			5		4		3				5						1				18	



G	<i>Lunella coronata</i>						4			1	5	
G	<i>Lunella granulata</i>							1			1	
G	<i>Monodonta labio</i>	10	7	7	9	7	11	14	9	7	9	90
G	<i>Nerita chamaeleon</i>							3				3
G	<i>Nerita lineata</i>								3		2	5
G	<i>Nerita polita</i>		2	2								4
G	<i>Nerita squamulata</i>	2				2	2	2		3		11
G	<i>Nipponacmea concinna</i>											0
G	<i>Nodilittorina radiata</i>		1				4					5
G	<i>Patelloida pygmaea</i>	5		1		2			1		4	13
G	<i>Pirenella asiatica</i>							3				3
G	<i>Pirenella incisa</i>		4		4	5		4	2			19
Ne	<i>Nemertea spp.</i>	1		5			3			5		14
P	<i>Sabellidae imbricatus</i>							1			5	6
Po	<i>Lepidozona spp.</i>			4			5			1		10
Sp	<i>Siphonosoma sp.</i>								2			2
Sp	<i>Sipunculus nudus</i>		4							2		6
											Total	578

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

Sep 2025		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			2																		2	
Bi	Barbatia virescens	21		15		9		6		8		7		14		11		12		9		112	
Bi	Anomalocardia squamosa					2																2	
Bi	Ruditapes philippinarum	3		2								2										7	
Bi	Brachidontes variabilis							3		5		5		5		2						20	
Bi	Glauconome chinensis					2														5		7	
Bi	Saccostrea cucullata	5		5				5		2								5				22	
Bi	Xenostrobus atratus													5								5	
C	Gaetice depressus									3		3						2		2		10	
C	Metopograpsus latifrons																					0	
C	Pagurus dubius	14		16		7		14		13		12		13		9		15		10		123	
G	Batillaria multiformis	16		13		11		17		11		9		9		11		9		5		111	
G	Batillaria zonalis			1								1		2								4	
G	Clithon oualaniensis					1				1		2										4	
G	Littoraria articulata					3		4						4		5						16	
G	Lottia dorsuosa			4						5								4		4		17	



G	Lunella coronata	4		5			3			12
G	Lunella granulata					4		4		8
G	Monodonta labio		5			5				10
G	Nipponacmea concinna				5		5		5	15
G	Patelloida pygmaea	3	3	4						10
G	Pirenella incisa					2		3		5
P	Nereididae spp.					5			3	4
P	Sabellidae imbricatus		3	5	5		2			2
Sp	Siphonosoma sp.					4				3
Sp	<i>Sipunculus nudus</i>						2			2
									Total	560

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

Sep 2025	Sampling Zone ST	High tidal level (2.0 m above C.D.)																				Sub-total
		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	
Ba	<i>Balanus amphitrite</i>			3						3												6
Bi	<i>Barbatia virescens</i>			2								1										3
Bi	<i>Brachidontes variabilis</i>	3				3								2							2	10
Bi	<i>Glauconome chinensis</i>																		3			3
Bi	<i>Saccostrea cucullata</i>	44		46		55		35		45		44		51		34		39		46		439
Bi	<i>Xenostrobus atratus</i>															1				1		2
C	<i>Gaetice depressus</i>					2				2												4
C	<i>Metopograpsus latifrons</i>	3		2												2				1		8
C	<i>Pagurus dubius</i>	2				1								2								5
Cn	<i>Diadumene lineata</i>															1						1
G	<i>Batillaria multiformis</i>	22		13		15		17		6		11		17		5		7		8		121
G	<i>Batillaria zonalis</i>	11		6		11		6		7		6		8		7		11		7		80
G	<i>Cellana toreuma</i>													2								2
G	<i>Clithon faba</i>	1								3								2				6



G	<i>Clithon retropictus</i>		3		3					2	8	
G	<i>Littoraria articulata</i>	1		2							3	
G	<i>Lottia dorsuosa</i>	3	1			1	1		2		8	
G	<i>Lunella coronata</i>		3								3	
G	<i>Lunella granulata</i>				3						3	
G	<i>Monodonta labio</i>	7	8	7	8	11	12	10	8	12	16	99
G	<i>Nerita chamaeleon</i>									1		1
G	<i>Nerita polita</i>								2	2	1	5
G	<i>Nipponacmea concinna</i>		2	2					2			6
G	<i>Nodilittorina radiata</i>	3			1			2				6
G	<i>Patelloida pygmaea</i>								1			1
G	<i>Pirenella incisa</i>					3	1				2	6
P	<i>Sabellidae imbricatus</i>		3	3					1	2		9
Po	<i>Lepidozona spp.</i>					1			2			3
Sp	<i>Sipunculus nudus</i>				1							1
Sp	<i>Siphonosoma sp.</i>					3						3
Total											855	

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

Sep 2025	Sampling Zone ST	Mid tidal level (1.5 m above C.D.)																				Sub-total	
		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		
Bi	<i>Barbatia virescens</i>	1				3																	4
Bi	<i>Glaucanome chinensis</i>	2		3						2		2		5									14
Bi	<i>Brachidontes variabilis</i>																						0
Bi	<i>Saccostrea cucullata</i>	7		1		6		9		1		8		11		8		8		10			93
Bi	<i>Xenostrobus atratus</i>			2																			2
C	<i>Gaetice depressus</i>	3																		1			4
C	<i>Metopograpsus latifrons</i>	5												3									8
C	<i>Pagurus dubius</i>															1		1					2
G	<i>Batillaria multiformis</i>	9		1		9		1		1		13		5		11		9		8			110
G	<i>Batillaria zonalis</i>	1		1		1		1		2		6		7		9		5		15			112
G	<i>Chlorostoma argyrostomum</i>																						0
G	<i>Clithon faba</i>					1		2		3		2		1				1					10
G	<i>Clithon oualaniense</i>			4						2						2							8

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G	<i>Clithon retropictus</i>	1		2	5		5		4		5	22
G	<i>Littoraria articulata</i>		5			4		2	2	5		18
G	<i>Lottia dorsuosa</i>			1	4		3		3			11
G	<i>Lunella coronata</i>							1				1
G	<i>Lunella granulata</i>									2		2
G	<i>Monodonta labio</i>	1	1	7	1	6	8	9	7	6	9	88
		5	0		1							
G	<i>Nerita chamaeleon</i>					1						1
G	<i>Nerita lineata</i>				1				1			2
G	<i>Nerita squamulata</i>			1					5		3	9
G	<i>Nipponacmea concinna</i>			1	5							6
G	<i>Nodilittorina radiata</i>				4	1		4		4	2	15
G	<i>Patelloida pygmaea</i>	1				4						5
G	<i>Pirenella incisa</i>										4	4
Ne	<i>Nemertea spp.</i>		1	3	2	3		2		2		13
P	<i>Sabellidae imbricatus</i>		1	4			4		2	3		14
Po	<i>Lepidozonia spp.</i>			1	1	5						7
Sp	<i>Siphonosoma sp.</i>				2							2
Sp	<i>Sipunculus nudus</i>						3					3
											Total	590

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

Sep 2025	Sampling Zone ST	Low tidal level (0.5 m above C.D.)																				Sub-total
		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	
Ba	<i>Balanus amphitrite</i>											1				5		1		1		8
Bi	<i>Anomalocardia squamosa</i>	3																3		3		9
Bi	<i>Barbatia virescens</i>															7		7		7		21
Bi	<i>Brachidontes variabilis</i>			1				1														2
Bi	<i>Glauconome chinensis</i>				1											1				0		2
Bi	<i>Saccostrea cucullata</i>	3								3		5				2				5		18
Bi	<i>Xenostrobus atratus</i>																					0
C	<i>Gaetice depressus</i>			3				0						5					2			10
C	<i>Hemigrapsus penicillatus</i>				1		2									1		2		4		10
C	<i>Metopograpsus latifrons</i>	1														1						2
C	<i>Metopograpsus quadridentatus</i>						0		1													1
Cn	<i>Diadumene lineata</i>						0									1						1

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G	<i>Batillaria multiformis</i>	1	1	1	1	7	11	21	16	18	11	142
G	<i>Batillaria zonalis</i>	6	5	1	6							
		1	1	7	1	6	9	16	14	16	14	123
		4	3		4							
G	<i>Chlorostoma argyrostomum</i>				2	3				1		6
G	<i>Clithon faba</i>				1					1		2
G	<i>Lottia dorsuosa</i>		4					1		1		6
G	<i>Lunella coronata</i>				2			1				3
G	<i>Lunella granulata</i>			3	1						3	7
G	<i>Monodonta labio</i>	5		3	5	3	4					20
G	<i>Nerita lineata</i>				0							0
G	<i>Nerita squamulata</i>				0							0
G	<i>Nipponacmea concinna</i>							5				5
G	<i>Nodilittorina radiata</i>			r							2	2
G	<i>Patelloida pygmaea</i>					3	3			1		7
G	<i>Pirenella incisa</i>	3								1		4
Ne	<i>Nemertea spp.</i>				0						2	2
P	<i>Sabellidae imbricatus</i>							0		1		1
Po	<i>Lepidozona spp.</i>							5				5
Sp	<i>Siphonosoma sp.</i>				2			1	2	0		5
Sp	<i>Sipunculus nudus</i>		0	0	0	0	0	3	0	1	0	4
											Total	428



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