

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. (September 2021)*

TC1



Plastic waste



Trash gill net

TC3



Boat wreckage

ST



Trash gill net and hand trolley



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

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

ST *Carcinoscorpius rotundicauda*



ST *Tachypleus tridentatus*



Figure 3.1 *Examples of photographic records of horseshoe crab (Sep 2021)*

Table 3.1 Summary of juvenile horseshoe crab survey in every sampling zone

| | TC1 | TC2 | TC3 | ST |
|--------------------------------------------|------|------|-------|-------|
| Search duration (hr) | 2 | 2 | 3 | 3 |
| <i>Carcinoscorpius rotundicauda</i> | | | | |
| No. of individuals | 0 | 0 | 2 | 8 |
| Mean prosomal width (mm) | \ | \ | 38.12 | 39.83 |
| Max..prosomal width (mm) | \ | \ | 40.67 | 48.81 |
| Min. prosomal width (mm) | \ | \ | 35.56 | 31.26 |
| Search record (ind. hr-1 person-1) | 0.00 | 0.00 | 0.33 | 1.33 |
| <i>Tachypleus tridentatus</i> | | | | |
| No. of individuals | 0 | 0 | 1 | 6 |
| Mean prosomal width (mm) | \ | \ | 38.78 | 40.92 |
| Max..prosomal width (mm) | \ | \ | 38.78 | 44.25 |
| Min. prosomal width (mm) | \ | \ | 38.78 | 37.87 |
| Search record (ind. hr-1 person-1) | 0.00 | 0.00 | 0.17 | 1.00 |

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 crab*

March 2019 – TC2



June 2019 – TC3



March 2020 – TC1



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

TC1



TC2



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

Carcinoscorpius rotundicauda

June 2017



December 2017



March 2019



December 2018



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

Tachypleus tridentatus

September 2017



June 2019



March 2020



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

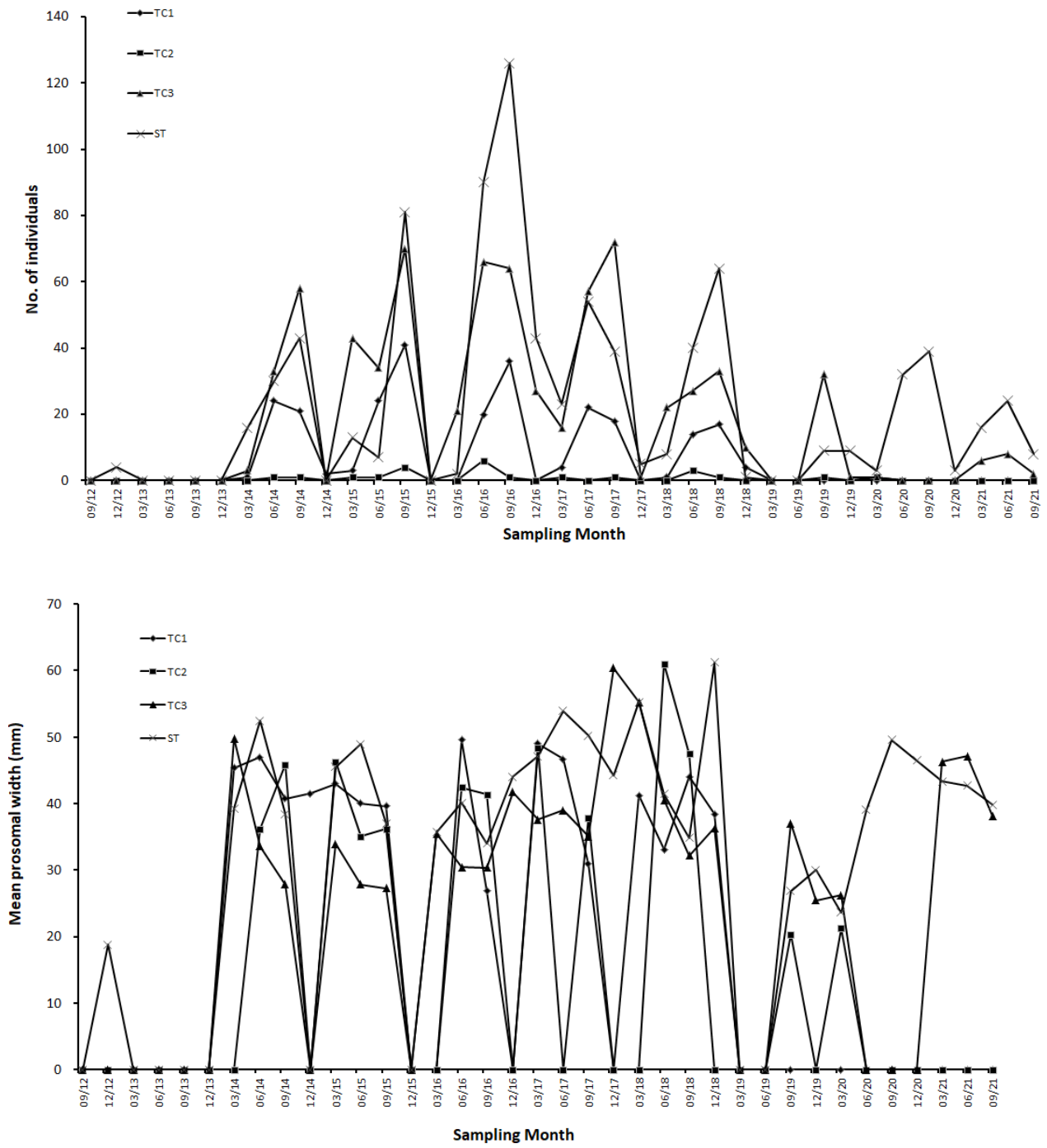


Figure 3.5 Changes of number of individuals mean prosomal width and search record of horseshoe crab *Carcinoscorpius rotundicauda* in every sampling zone along the sampling months

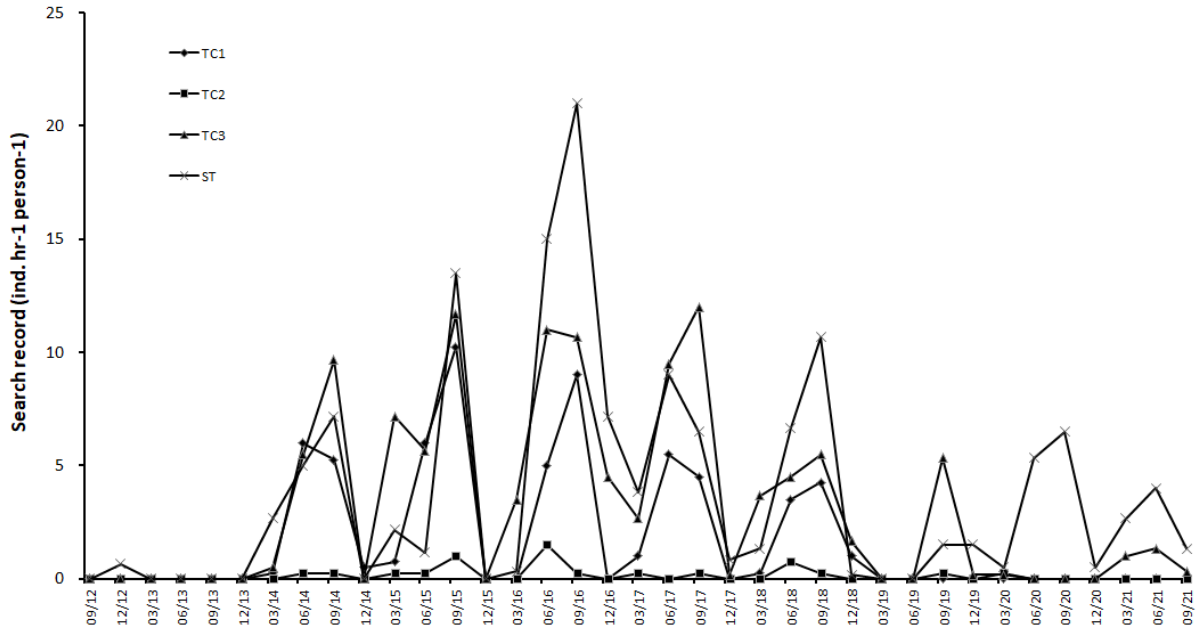


Figure 3.5 (Cont'd) Changes of number of individuals mean prosomal width and search record of horseshoe crab *Carcinoscorpius rotundicauda* in every sampling zone along the sampling months

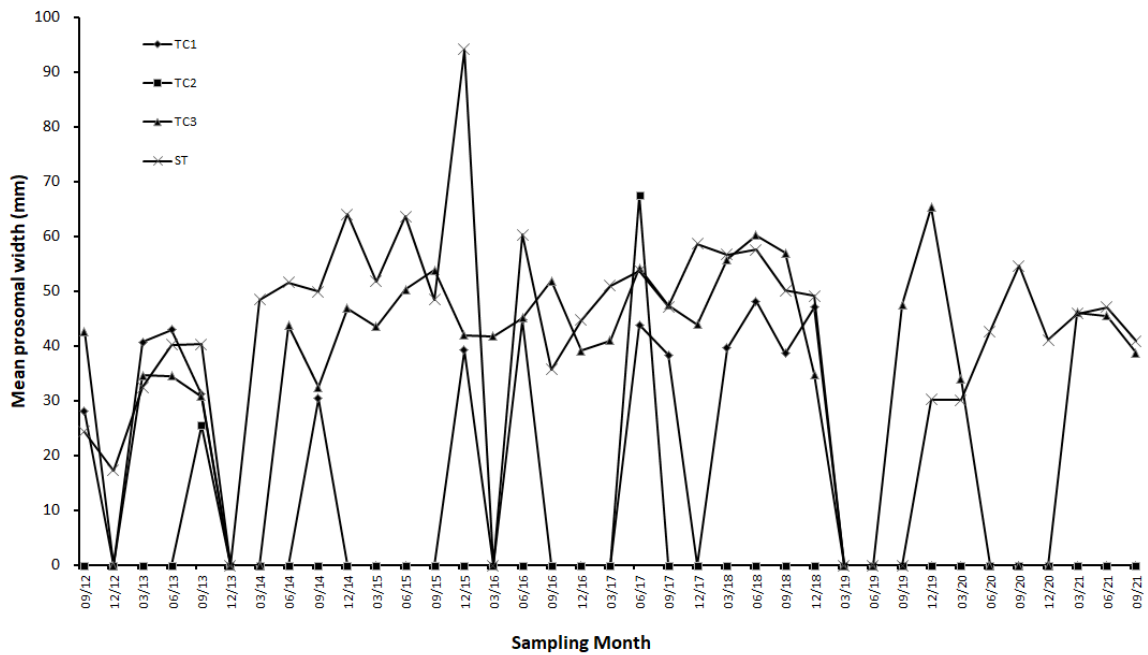
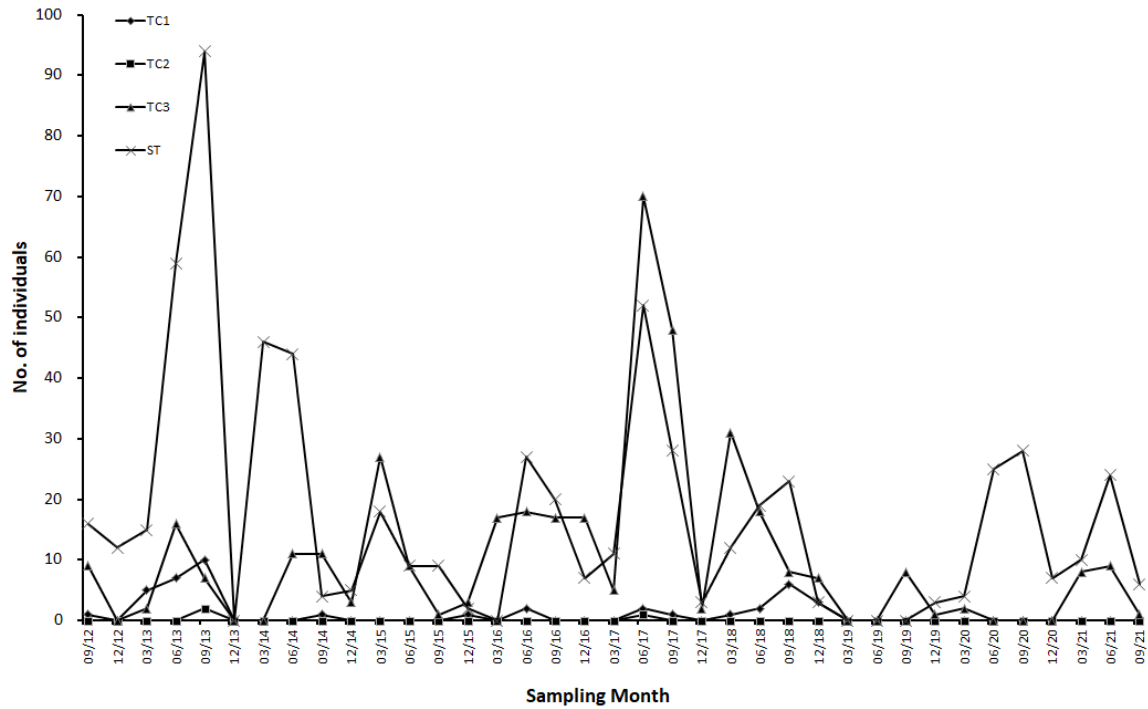


Figure 3.6 Changes of number of individuals mean prosomal width and search record of horseshoe crab *Tachypleus tridentatus* in every sampling zone along the sampling months

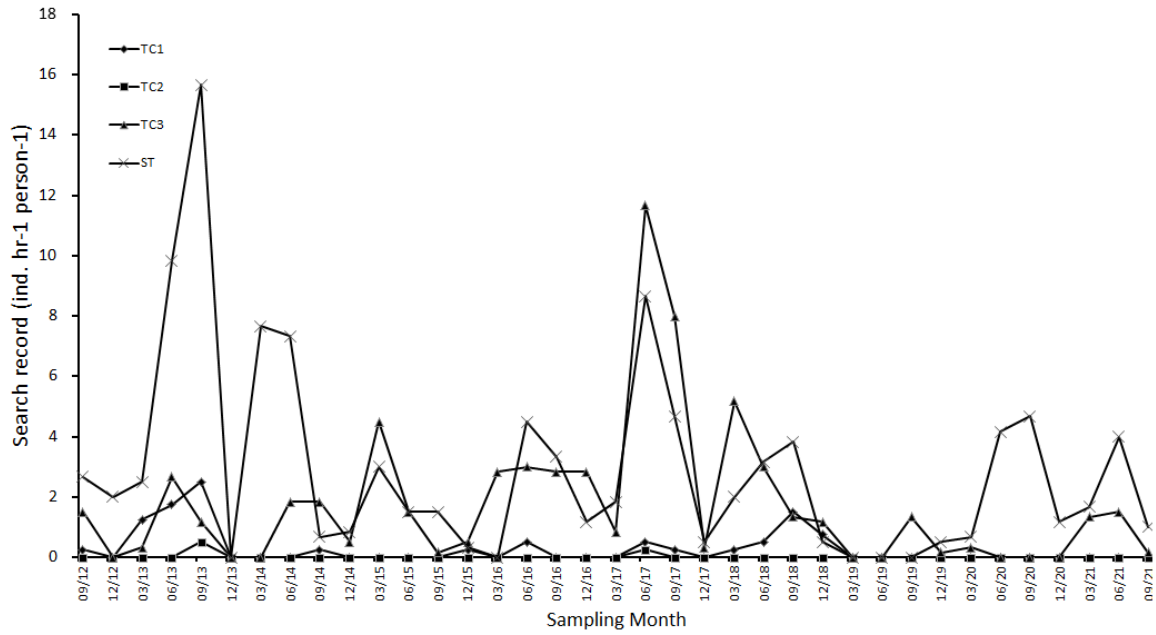


Figure 3.6 (Cont'd) Changes of number of individuals mean prosomal width and search record of horseshoe crab *Tachypleus tridentatus* in every sampling zone along the sampling months

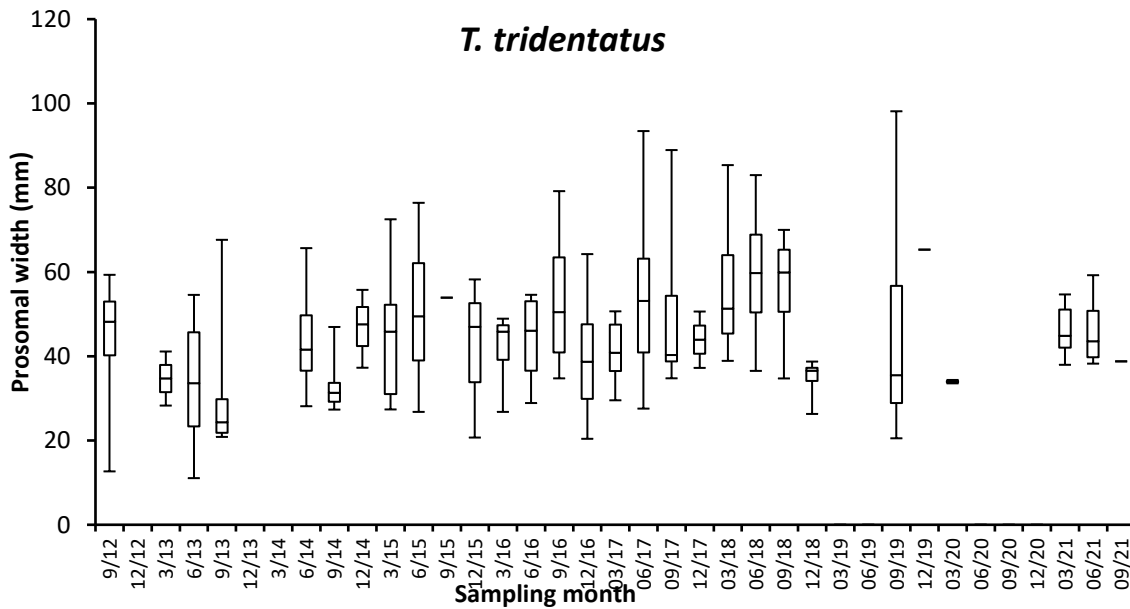
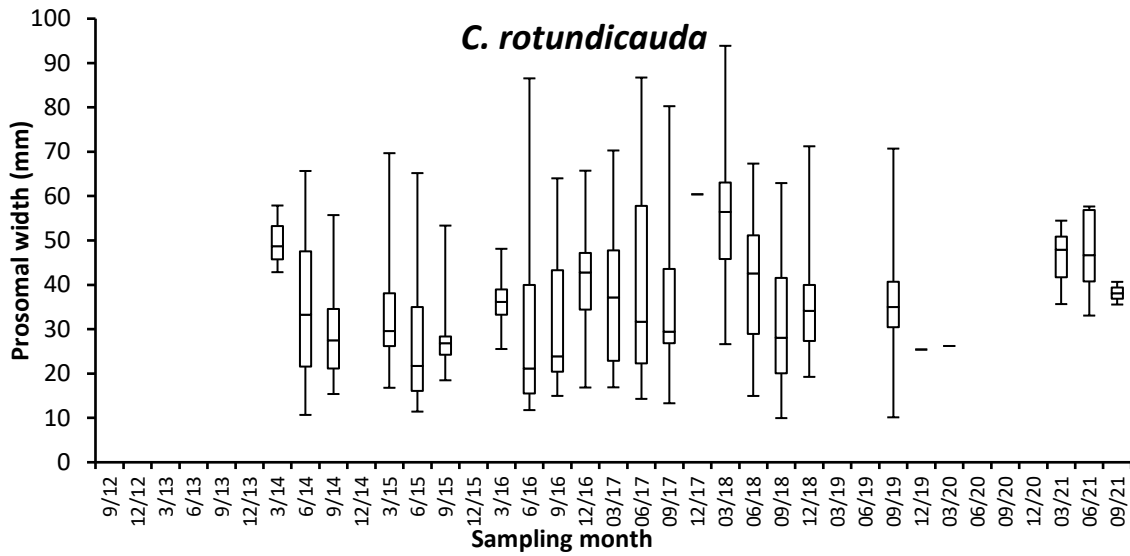


Figure 3.7 Box plot of prosomal width of horseshoe crab in the sampling zone TC3 along the sampling months. (The box represents 50% of the sample (upper to lower quartile) with a middle line showing the median value. The upper whisker and lower whisker showed the 25% of sample above upper quartile and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

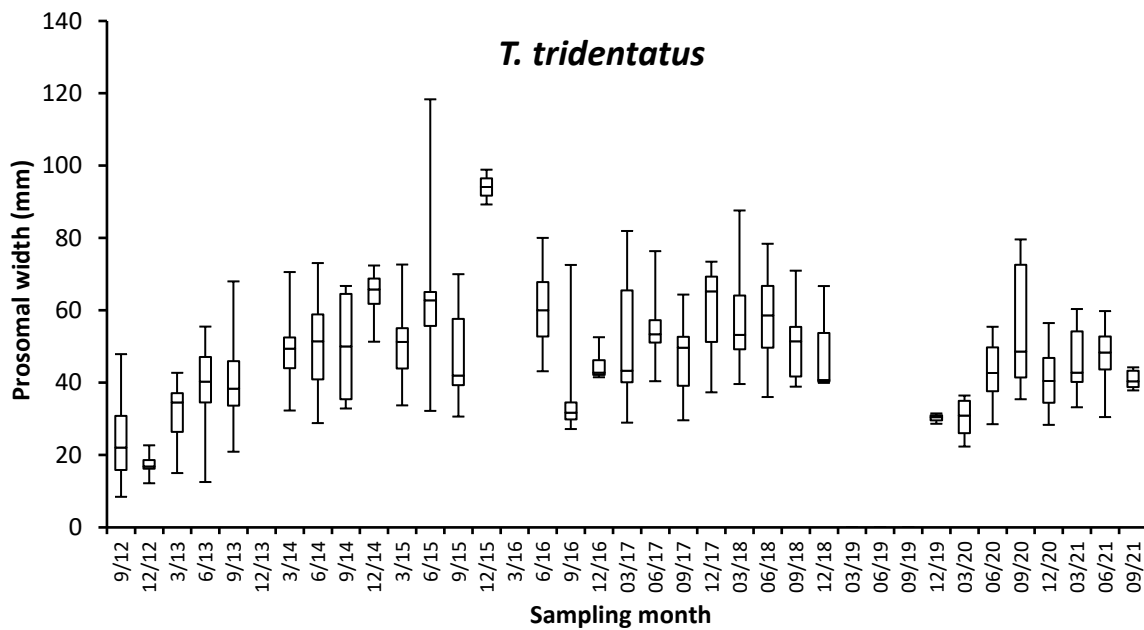
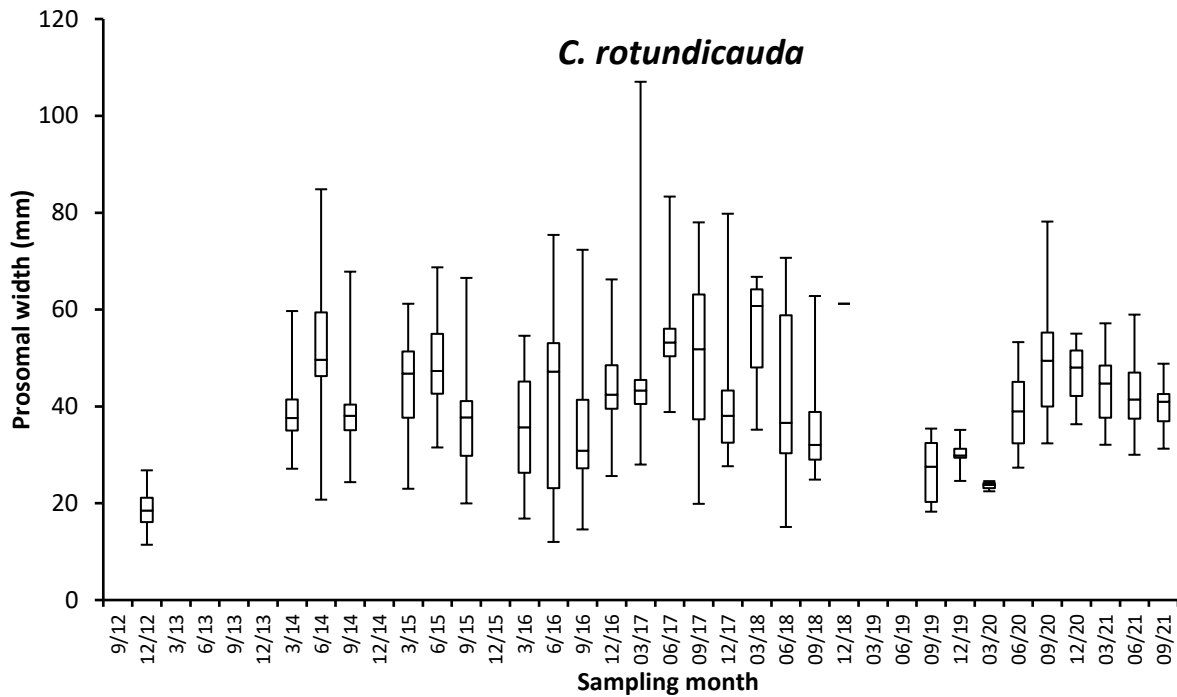


Figure 3.8 Box plot of prosomal width of horseshoe crab in the sampling zone ST along the sampling months. (The box represents 50% of the sample (upper to lower quartile) with a middle line showing the median value. The upper whisker and lower whisker showed the 25% of sample above upper quartile and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

***Halophila ovalis* in TC3**



Figure 3.9 *Photographic record of seagrass beds in present survey.*

***Halophila ovalis* and *Zostera japonica* in ST**



Figure 3.9 (Cont'd) *Photographic record of seagrass beds in present survey.*

TC3



Single patch of *Halophila ovalis*

TC3 - ST



Extensive patch of *Halophila ovalis*



ST



Medium, horizontal patch of *Zostera japonica*



Figure 3.10 Examples of photographic records of seagrass beds (record in June 2017)

Table 3.2. *Summary of seagrassbeds survey*

| Sampling zone | TC3 <i>Halophila ovalis</i> | ST <i>Halophila ovalis</i> | ST <i>Zostera japonica</i> |
|-------------------------------------|--------------------------------|-------------------------------|-------------------------------|
| Number of patches | 3 | 6 | 1 |
| Total area (m²) | 444 | 1279 | 20 |
| Average area (m²) | 148 | 213.2 | 20 |

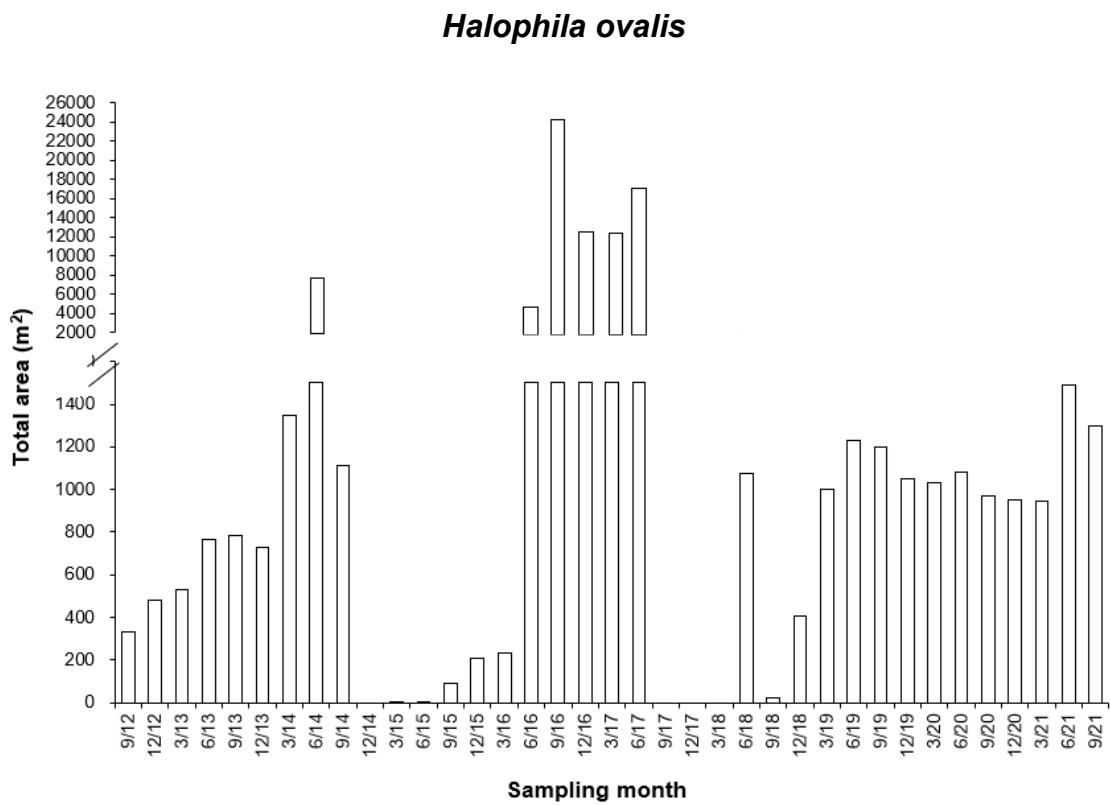
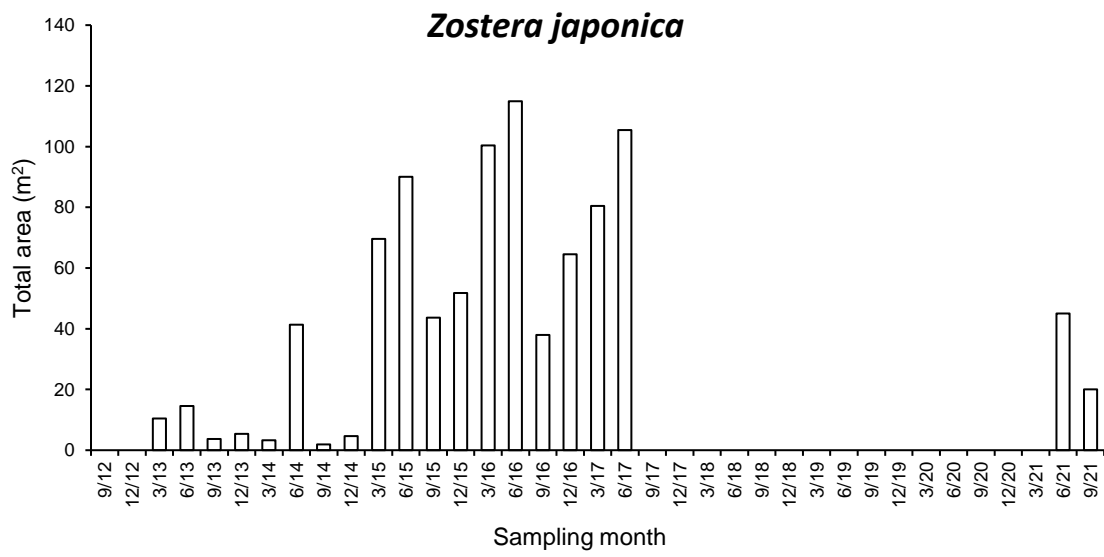


Figure 3.11 Temporal changes of estimated total area of seagrass beds in ST

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. 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



September 2020



December 2020



March 2021



June 2021



September 2021



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

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 | 70 | 30 | |
| | M | 40 | 30 | 30 |
| | L | 10 | 40 | 50 |
| TC2 | H | 70 | 30 | |
| | M | 30 | 40 | 30 |
| | L | 10 | 50 | 40 |
| TC3 | H | 70 | 30 | |
| | M | 30 | 40 | 30 |
| | L | 40 | 30 | 30 |
| ST | H | 70 | 30 | |
| | M | 60 | 20 | 20 |
| | L | 10 | 50 | 40 |

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

TC1 H



TC1 L



06/09/2021

TC2 H



TC2 L



16/09/2021

TC3 H



TC3 L



17/09/2021

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

ST H



ST L



03/09/2021

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

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

| Phylum | Total Abundance | % | Density (ind. m ⁻²) | Number of Taxon |
|-----------------|-----------------|------|---------------------------------|-----------------|
| <u>Sep 21</u> | | | | |
| Mollusca | 7897 | 87.6 | 263 | 31 |
| Arthropoda | 786 | 8.7 | 26 | 6 |
| Annelida | 164 | 1.8 | 5 | 3 |
| Sipuncula | 105 | 1.2 | 4 | 2 |
| Nemertea | 30 | 0.3 | 1 | 1 |
| Cnidaria | 21 | 0.2 | 1 | 1 |
| Platyhelminthes | 15 | 0.2 | 1 | 1 |
| Total | 9018 | | | |

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

0 ind. m⁻²: Density of the phylum is less than 1 ind. m⁻².

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

| Phylum | TC1 | % | Density (ind. m ⁻²) | TC2 | % | Density (ind. m ⁻²) | TC3 | % | Density (ind. m ⁻²) | ST | % | Density (ind. m ⁻²) |
|------------------|------|------|------------------------------------|------|------|------------------------------------|------|------|------------------------------------|------|------|------------------------------------|
| Mollusca | 1710 | 91.8 | 228 | 1737 | 90.0 | 232 | 2747 | 90.6 | 366 | 1703 | 77.7 | 227 |
| Arthropoda | 114 | 6.1 | 15 | 131 | 6.8 | 17 | 169 | 5.6 | 23 | 372 | 17.0 | 50 |
| Annelida | 20 | 1.1 | 3 | 14 | 0.7 | 2 | 65 | 2.1 | 9 | 65 | 3.0 | 9 |
| Sipuncula | 14 | 0.8 | 2 | 25 | 1.3 | 3 | 37 | 1.2 | 5 | 29 | 1.3 | 4 |
| Nemertea | 0 | 0.0 | 0 | 17 | 0.9 | 2 | 0 | 0.0 | 0 | 13 | 0.6 | 2 |
| Cnidaria | 4 | 0.2 | 1 | 7 | 0.4 | 1 | 0 | 0.0 | 0 | 10 | 0.5 | 1 |
| Platyhelminthes | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 15 | 0.5 | 2 | 0 | 0.0 | 0 |
| Sub-total | 1862 | | | 1931 | | | 3033 | | | 2192 | | |

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> | 124 | 30 | 8 |
| | G | <i>Monodonta labio</i> | 86 | 21 | 7 |
| Mid | Bi | <i>Saccostrea cucullata</i> | 47 | 26 | 19 |
| | G | <i>Monodonta labio</i> | 41 | 23 | 30 |
| Low | Bi | <i>Saccostrea cucullata</i> | 43 | 30 | 33 |
| | G | <i>Monodonta labio</i> | 34 | 23 | 54 |

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> | 95 | 28 | 42 |
| | G | <i>Monodonta labio</i> | 62 | 18 | 6 |
| Mid | Bi | <i>Saccostrea cucullata</i> | 78 | 24 | 33 |
| | G | <i>Monodonta labio</i> | 60 | 19 | 9 |
| Low | Bi | <i>Saccostrea cucullata</i> | 23 | 21 | 46 |
| | G | <i>Monodonta labio</i> | 16 | 15 | 9 |

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> | 124 | 29 | 7 |
| | G | <i>Monodonta labio</i> | 61 | 15 | 2 |
| Mid | Bi | <i>Saccostrea cucullata</i> | 136 | 28 | 8 |
| | G | <i>Batillaria multiformis</i> | 49 | 10 | 72 |
| | G | <i>Monodonta labio</i> | 62 | 13 | 4 |
| Low | Bi | <i>Saccostrea cucullata</i> | 137 | 43 | 38 |
| | G | <i>Monodonta labio</i> | 40 | 13 | 1 |

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> | 124 | 39 | 15 |
| | G | <i>Batillaria multiformis</i> | 38 | 12 | 23 |
| | G | <i>Monodonta labio</i> | 51 | 16 | 40 |
| Mid | Bi | <i>Saccostrea cucullata</i> | 130 | 33 | 28 |
| | G | <i>Monodonta labio</i> | 74 | 19 | 47 |
| Low | Bi | <i>Saccostrea cucullata</i> | 63 | 37 | 25 |
| | G | <i>Monodonta labio</i> | 30 | 17 | 38 |

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 | 20 | | 418 | | 2.5 | | 0.8 | |
| | M | 15 | 16 | 183 | 248 | 2.2 | 2.27 | 0.8 | 0.80 |
| | L | 13 | | 144 | | 2.1 | | 0.8 | |
| TC2 | H | 18 | | 337 | | 2.4 | | 0.8 | |
| | M | 20 | 17 | 325 | 257 | 2.5 | 2.43 | 0.8 | 0.83 |
| | L | 13 | | 109 | | 2.4 | | 0.9 | |
| TC3 | H | 22 | | 420 | | 2.4 | | 0.8 | |
| | M | 20 | 19 | 478 | 404 | 2.4 | 2.27 | 0.8 | 0.80 |
| | L | 14 | | 315 | | 2.0 | | 0.8 | |
| ST | H | 14 | | 318 | | 2.0 | | 0.7 | |
| | M | 15 | 13 | 389 | 292 | 2.0 | 1.97 | 0.8 | 0.77 |
| | L | 11 | | 170 | | 1.9 | | 0.8 | |

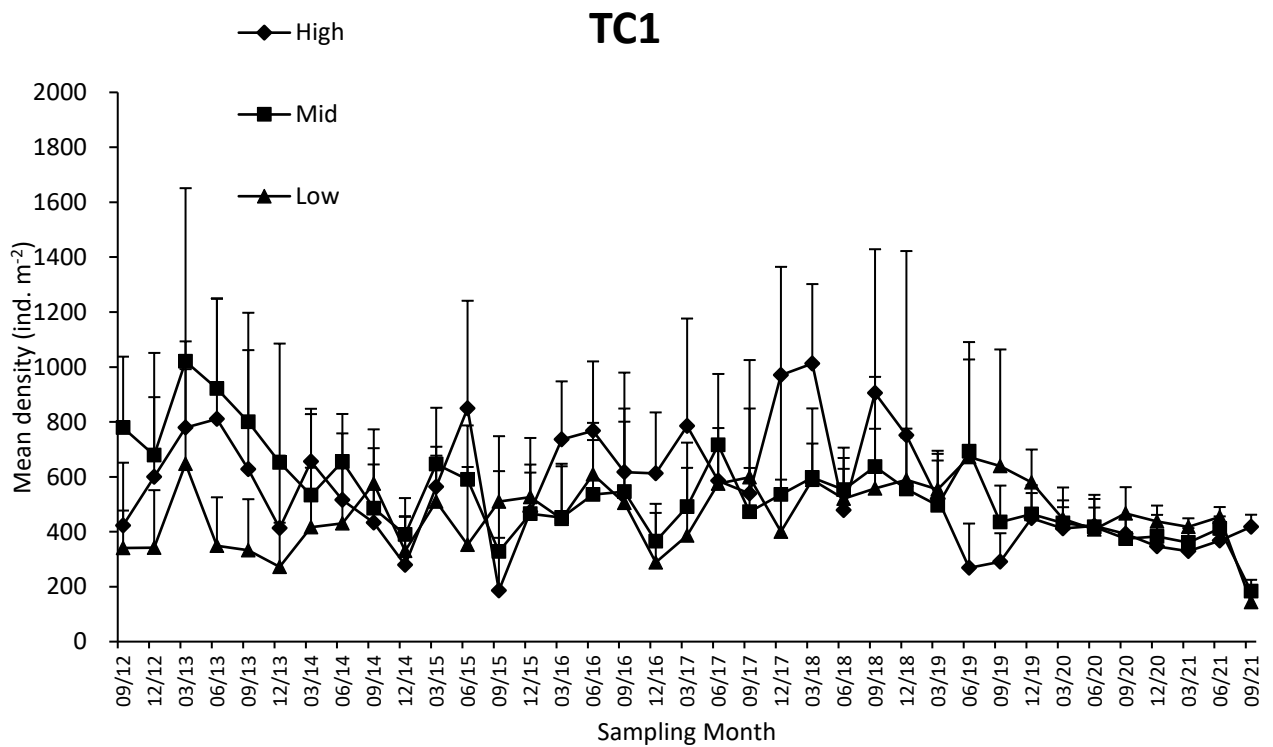
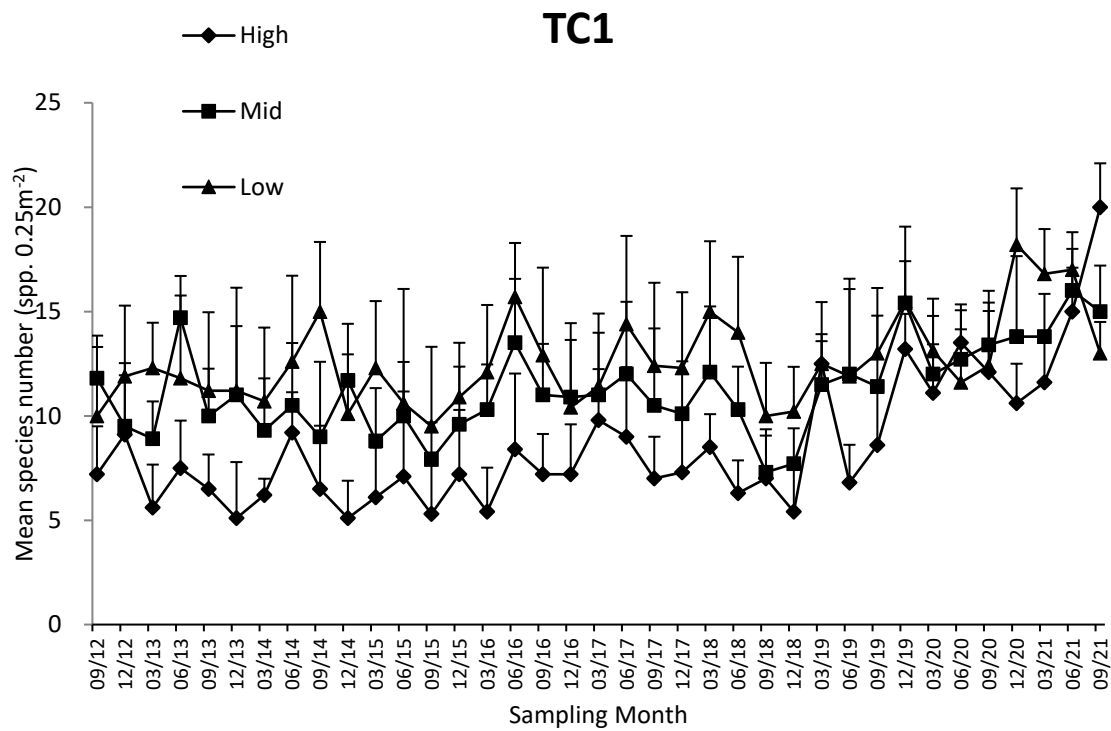


Figure 3.14 Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC1

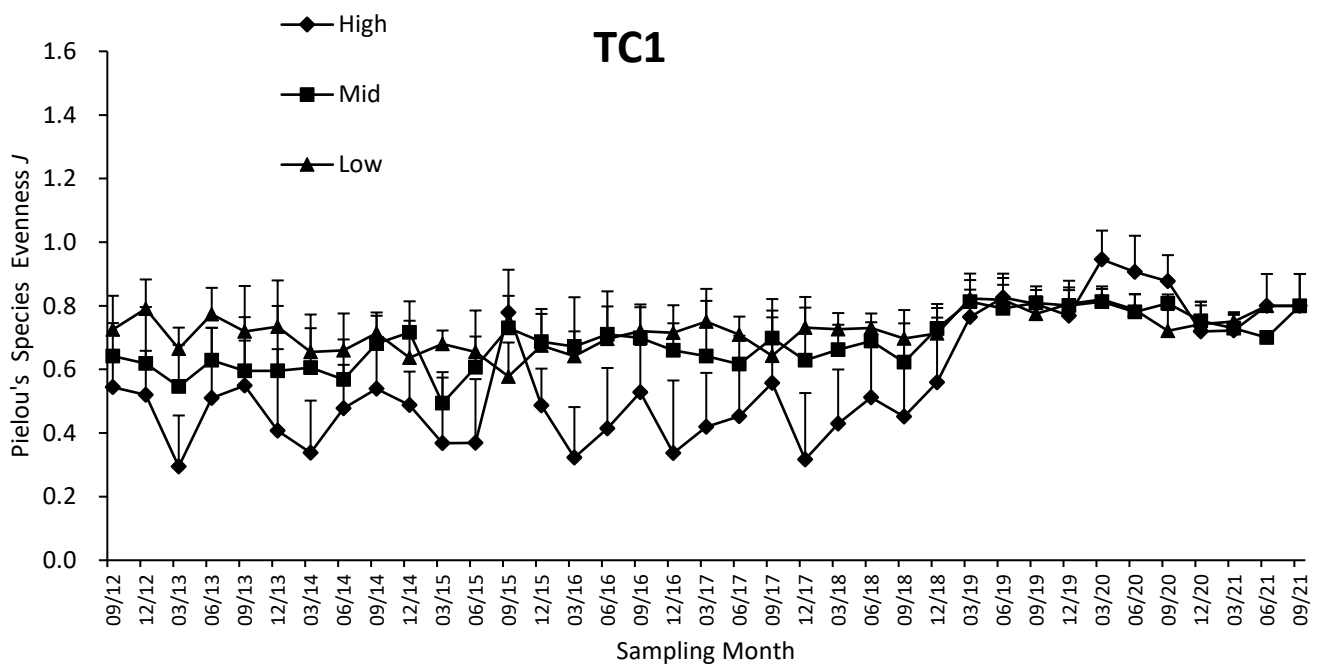
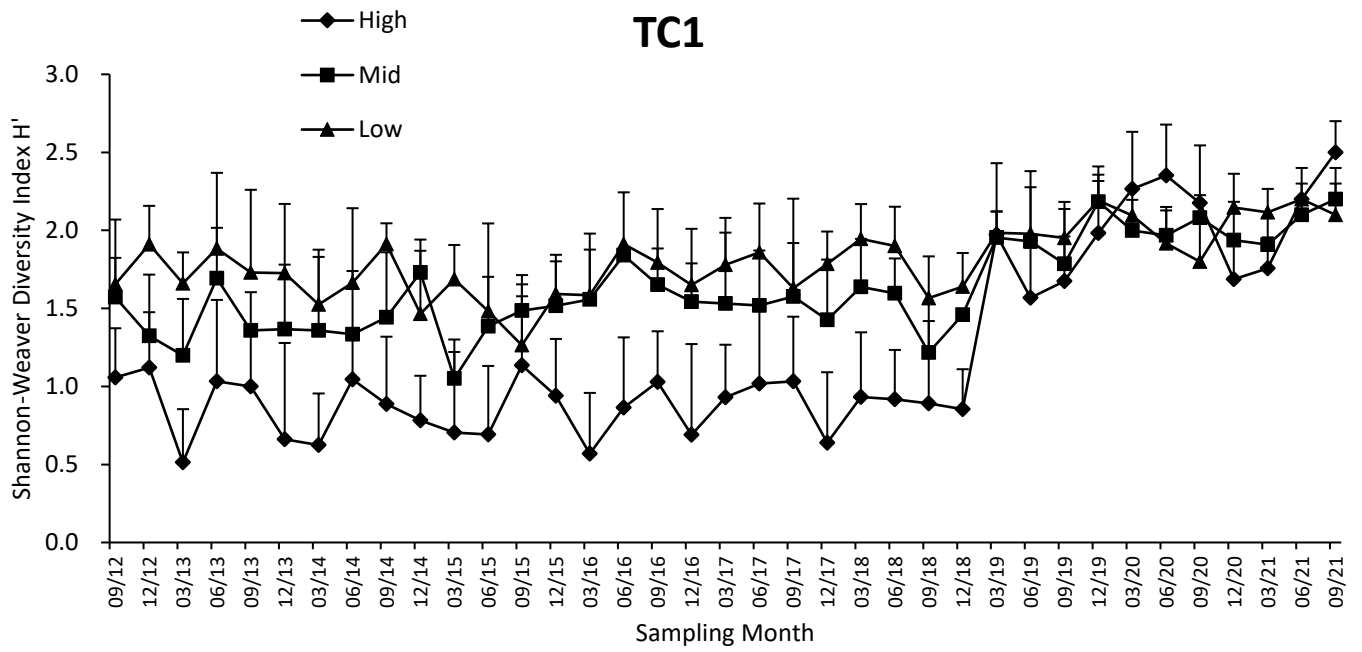


Figure 3.14(Cont'd) Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC1

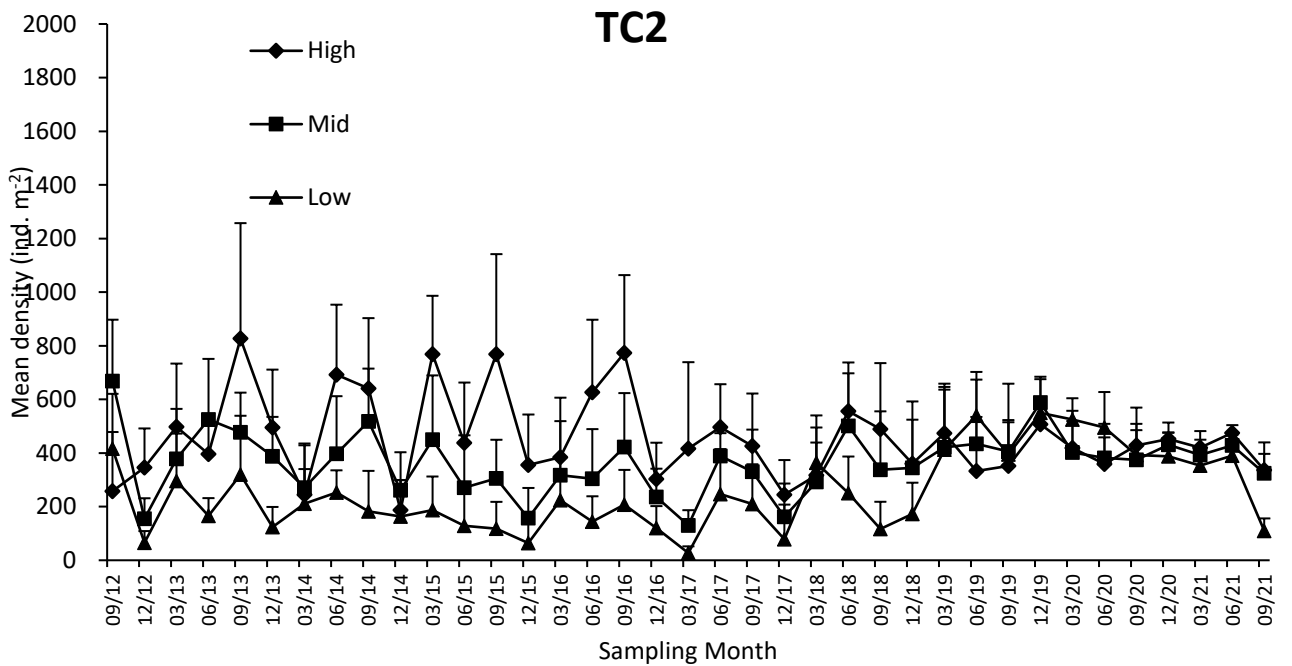
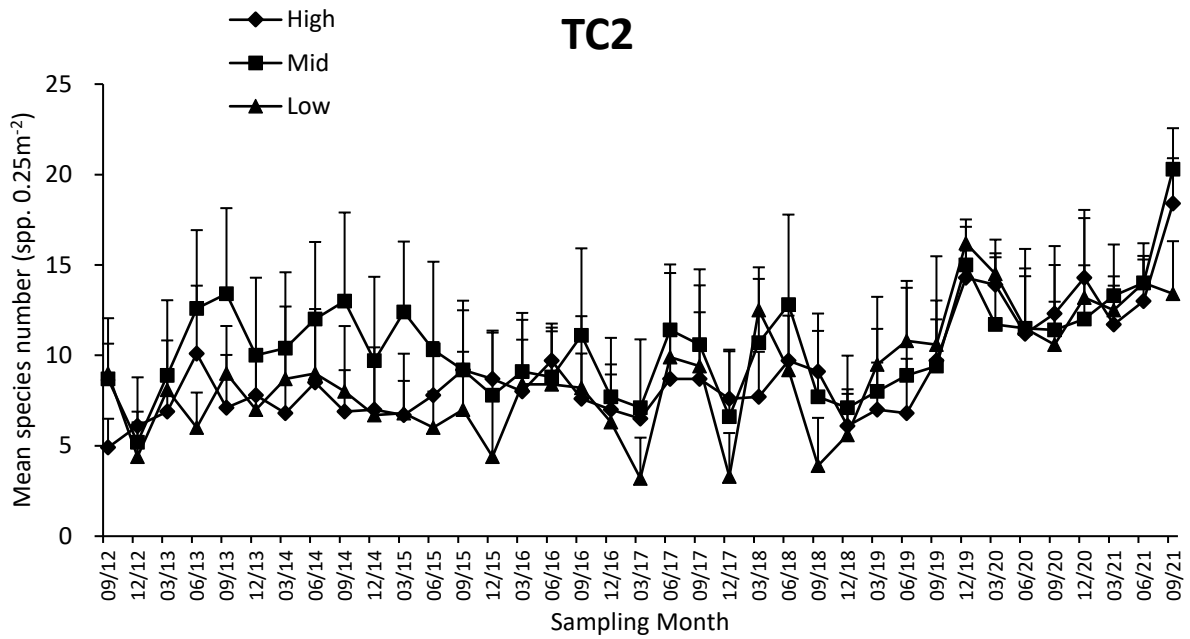


Figure 3.15 Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC2

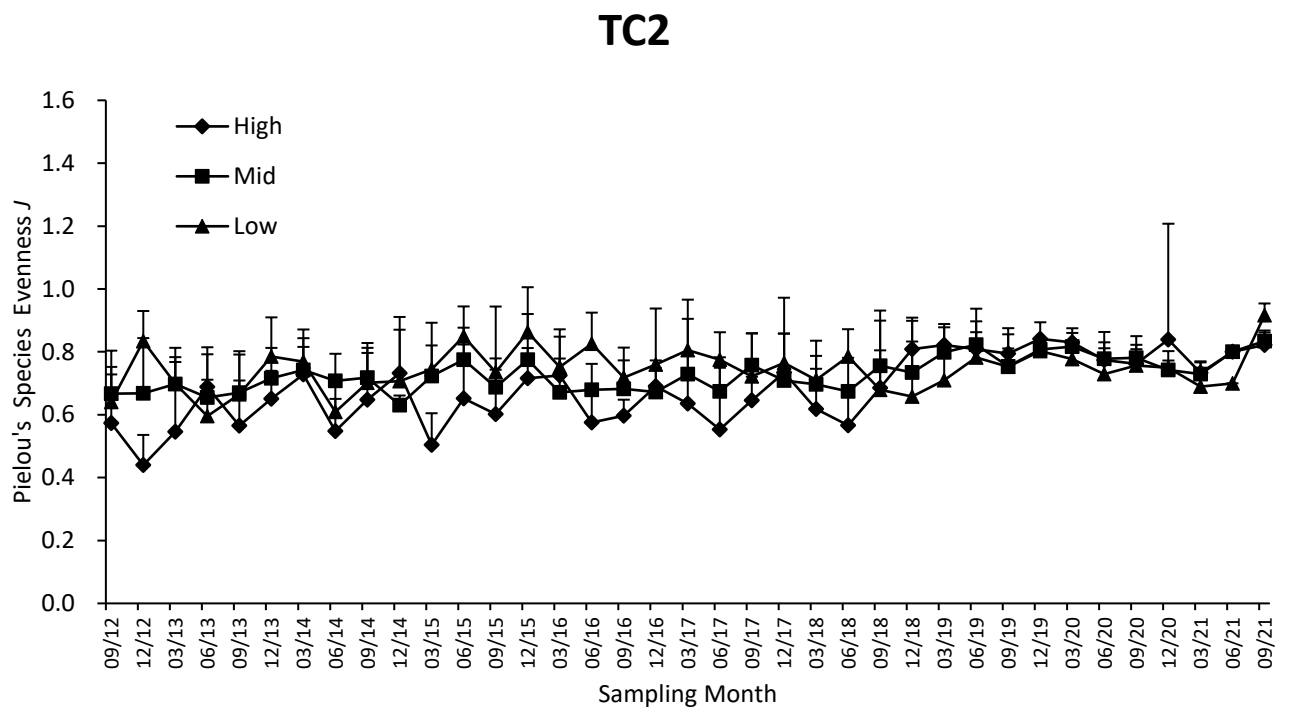
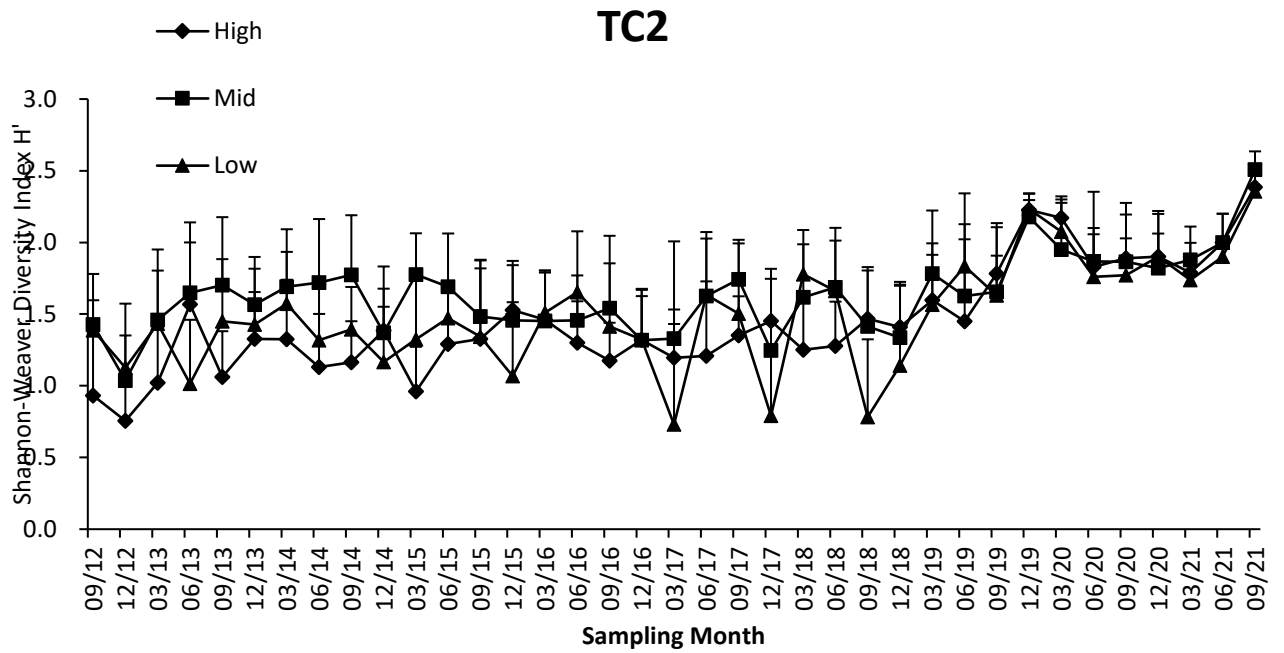


Figure 3.15 (Cont'd) Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC2

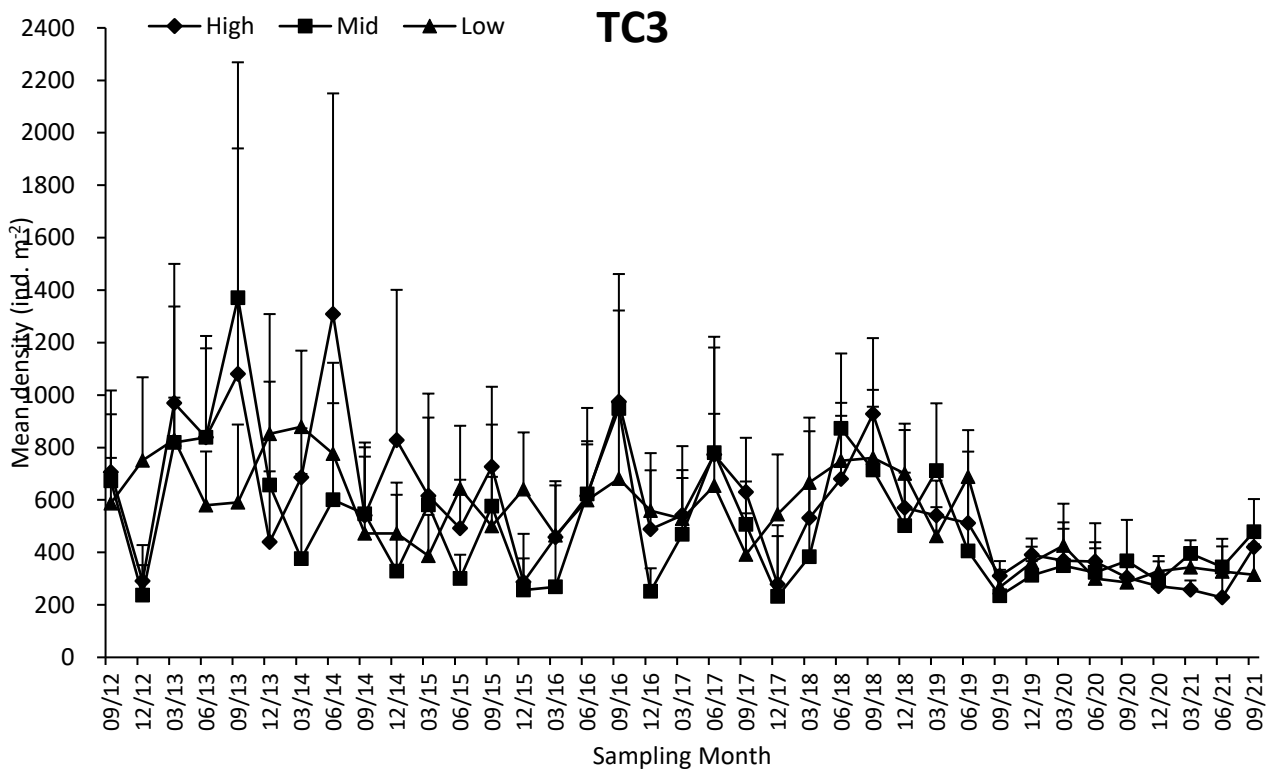
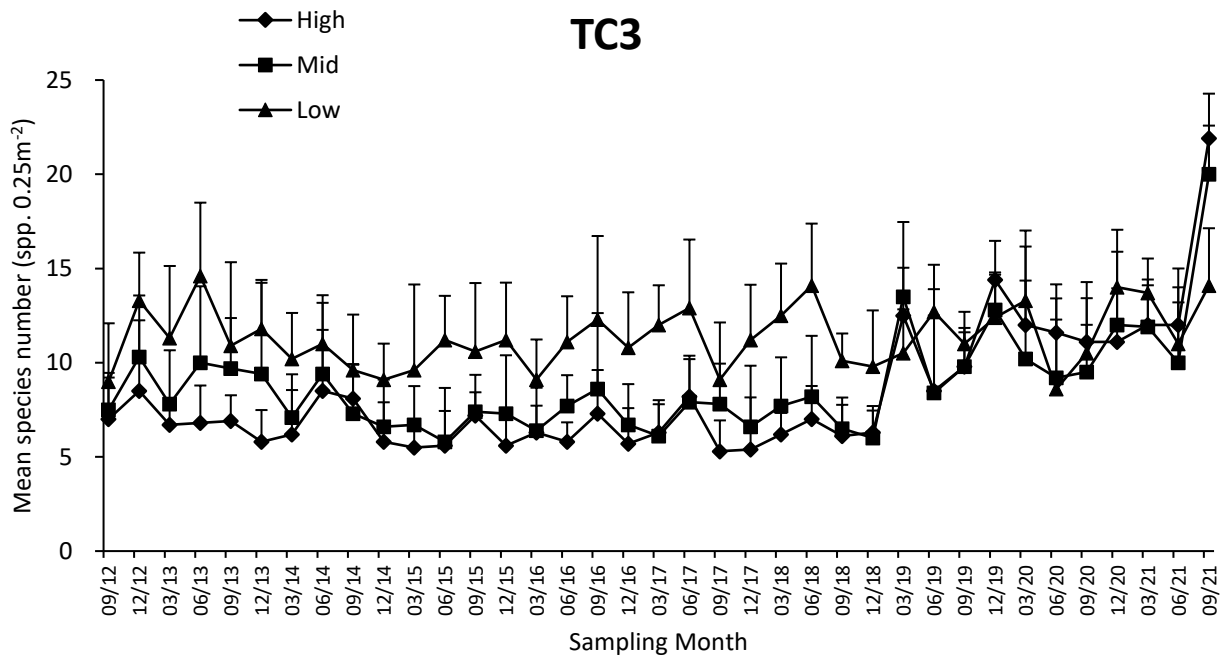


Figure 3.16 Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC3

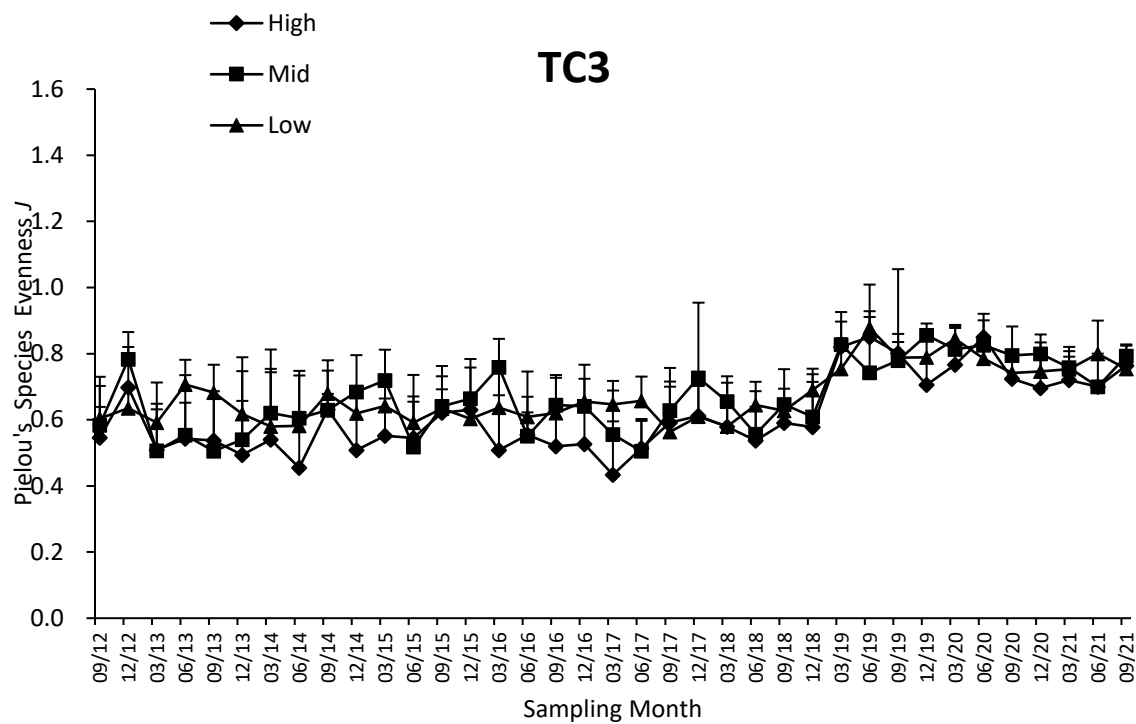
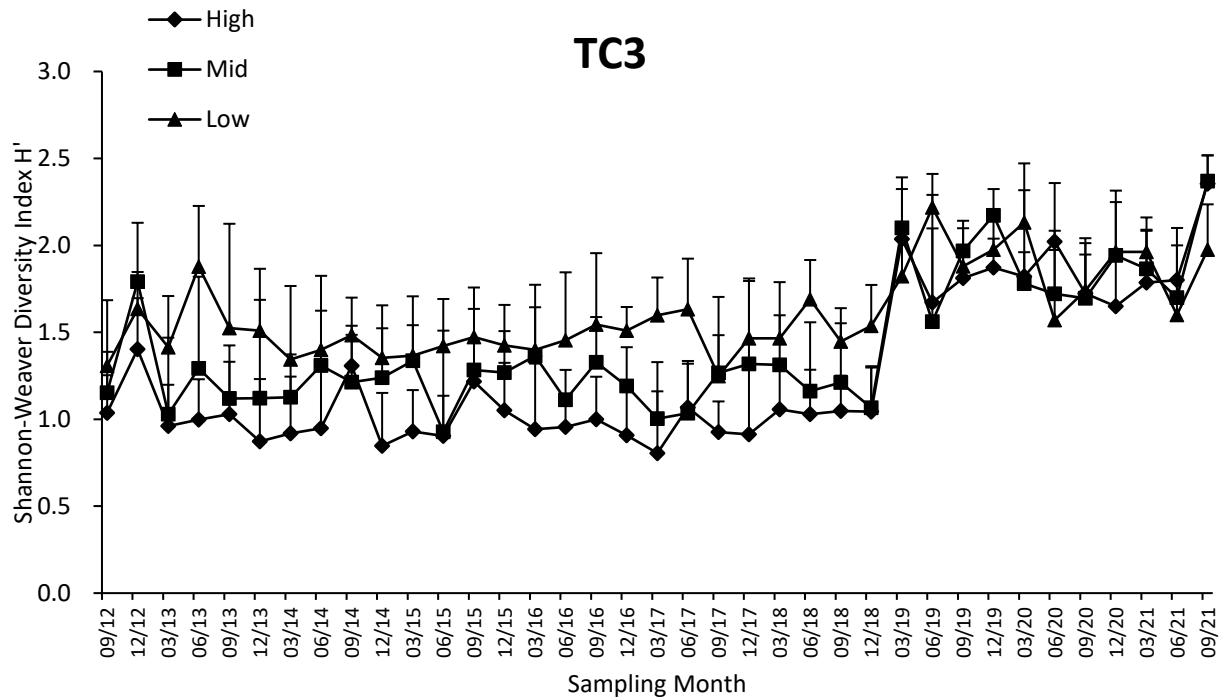


Figure 3.16(Cont'd) Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone TC3

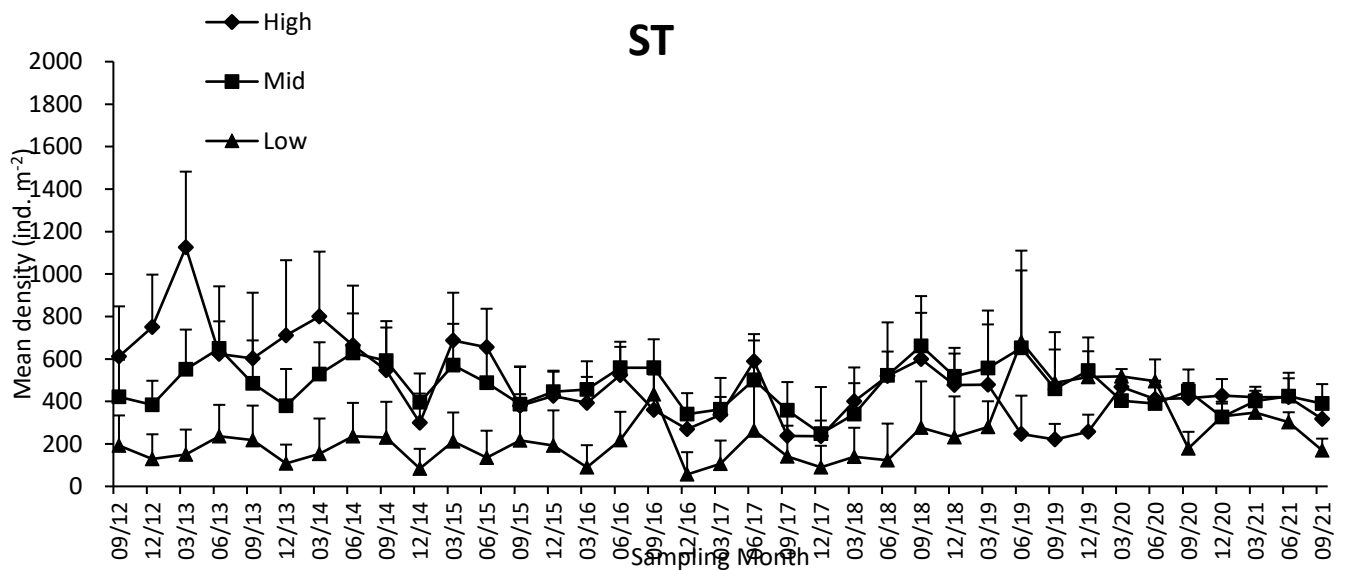
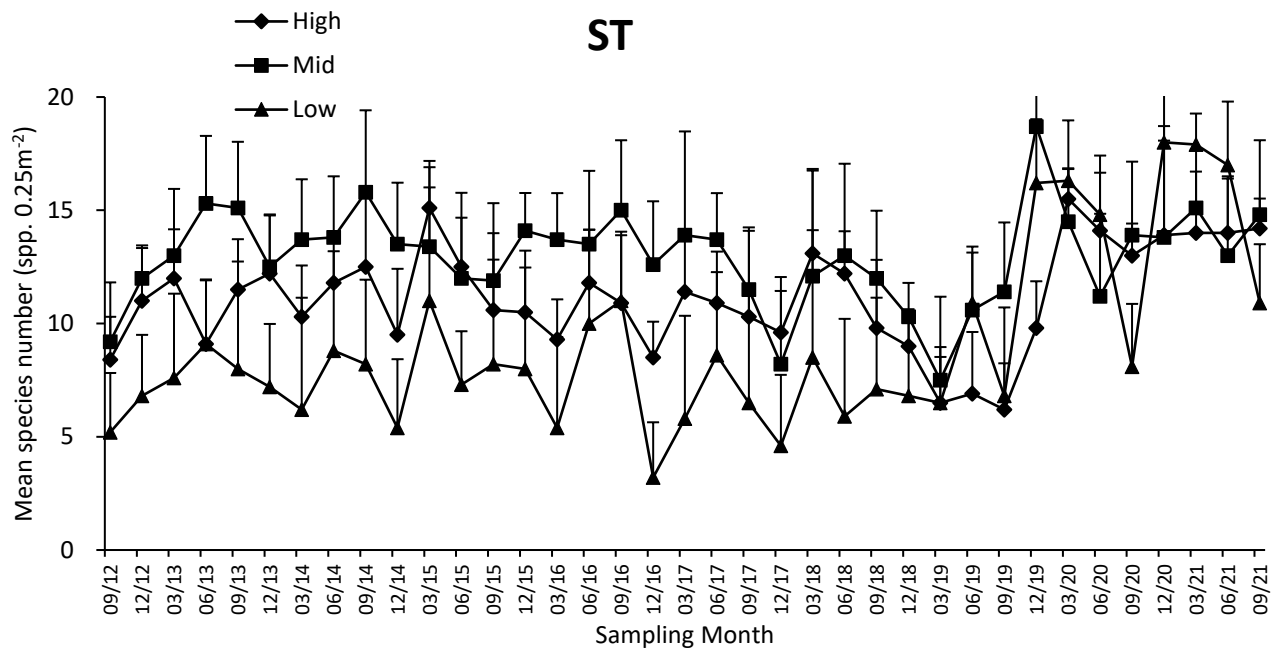


Figure 3.17 Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone S

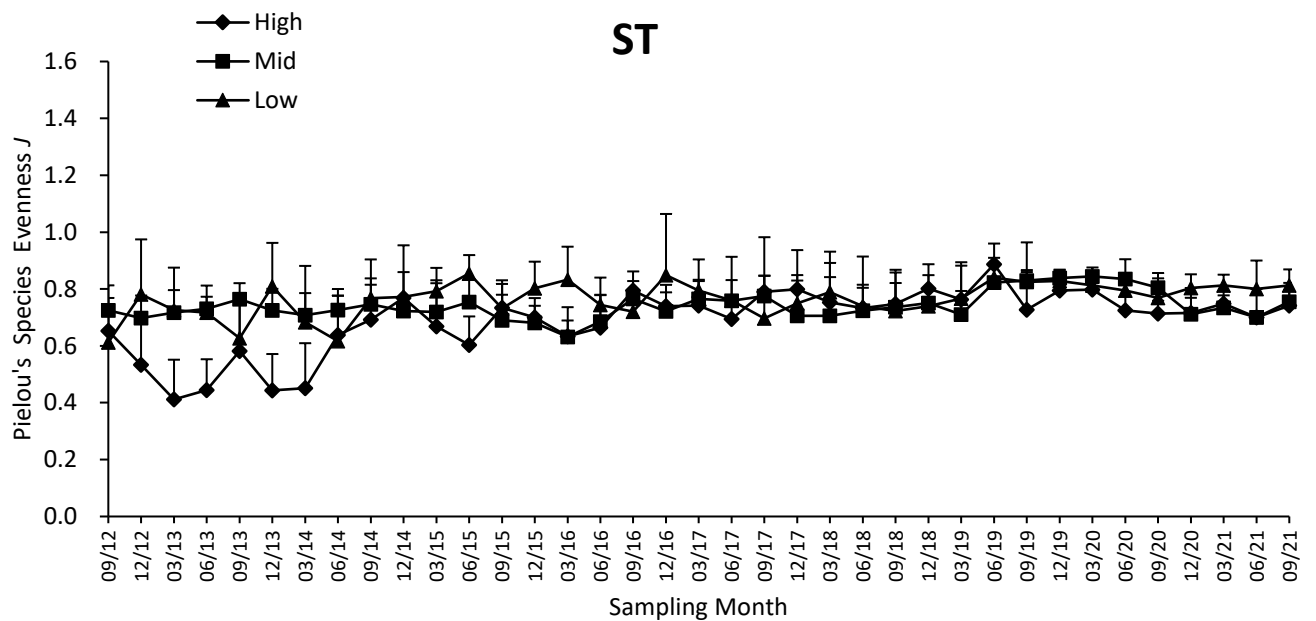
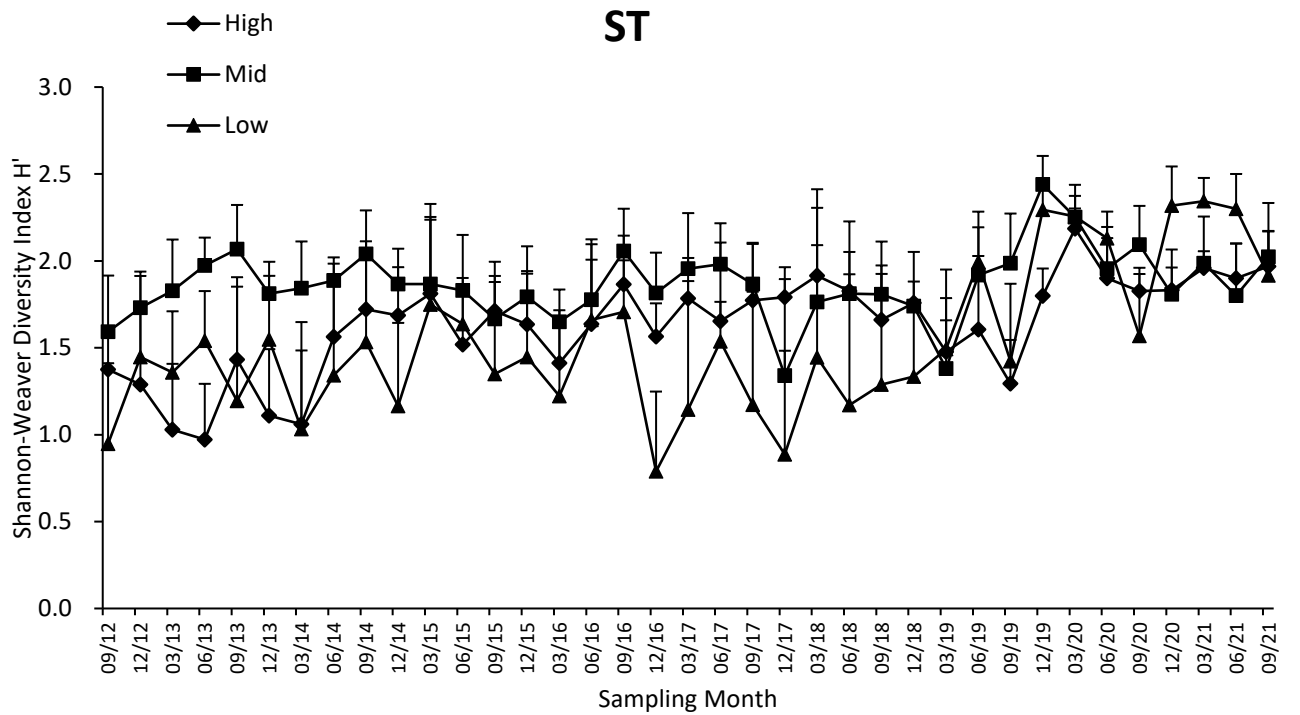
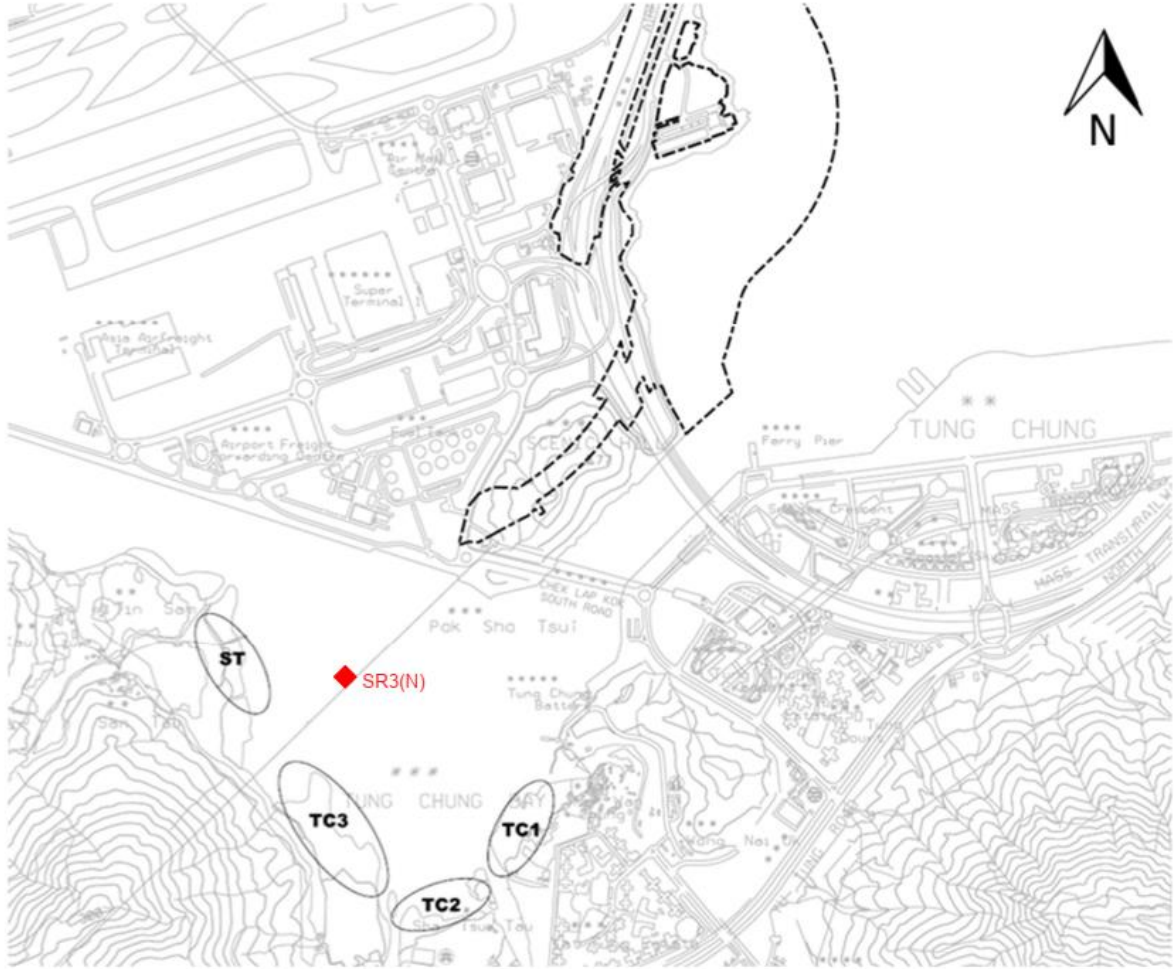


Figure 3.17(Cont'd) Temporal changes of mean number of species, mean density, Shannon-Weaver Diversity Index (H') and Pielou's Species Evenness (J) (mean + SD) at every tidal level in sampling zone ST

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



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

| No. | Sub. | GPS coordinate | Record of prosomal width (mm) | | |
|------------------------------------------------|------|--------------------------|-------------------------------------|-------|-------------------------------|
| <u>Sampling site TC1</u> (Search hour = 2 hrs) | | | <i>Carcinoscorpius rotundicauda</i> | | <i>Tachypleus tridentatus</i> |
| | | No record | | | |
| No. of ind. | | | 0 | | 0 |
| <u>Sampling site TC2</u> (Search hour = 2 hrs) | | | <i>Carcinoscorpius rotundicauda</i> | | <i>Tachypleus tridentatus</i> |
| | | No record | | | |
| No. of ind. | | | 0 | | 0 |
| <u>Sampling site TC3</u> (Search hour = 3 hrs) | | | <i>Carcinoscorpius rotundicauda</i> | | <i>Tachypleus tridentatus</i> |
| 1 | M | 22°17'006"N 113°55'037"E | 35.56 | 40.67 | 38.78 |
| No. of ind. | | | 2 | | 1 |

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

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

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

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

| No. | Sub. | GPS coordinate | | Record of prosomal width (mm) | | | |
|-----------------------------------------------|------|----------------|--------------|-------------------------------------|-------|-------|-------------------------------|
| <u>Sampling site ST</u> (Search hour = 3 hrs) | | | | <i>Carcinoscorpius rotundicauda</i> | | | <i>Tachypleus tridentatus</i> |
| 1 | S | 22°17'010"N | 113°55'030"E | 40.95 | 31.55 | | 44.25 |
| 2 | M | 22°17'012"N | 113°55'030"E | 41.92 | 48.81 | 40.91 | 44.01 41.31 |
| 3 | M | 22°17'013"N | 113°55'029"E | 31.26 | | | 39.51 |
| 4 | S | 22°17'015"N | 113°55'031"E | 38.75 | 44.52 | | 38.57 37.87 |
| No. of ind. | | | | 8 | | | 6 |

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

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

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

Annex 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 <i>Halophila ovalis</i> (search hour = 3 hrs) | | | | | |
| 350 | 70-80 | horizontal line | 22°17'007"N | 113°55'033"E | A horizontal strand of seagrass bed nearby the seaward side of mangrove area at tidal level 1.5 m above C.D. |
| | | | 22°17'007"N | 113°55'033"E | |
| 64 | 60-70 | horizontal line | 22°17'001"N | 113°55'038"E | A horizontal strand of seagrass bed nearby the seaward side of mangrove area at tidal level 1.5m above C.D. |
| | | | 22°17'001"N | 113°55'038"E | |
| 30 | 50-60 | horizontal line | 22°17'007"N | 113°55'034"E | A horizontal strand of seagrass bed nearby the seaward side of mangrove area at tidal level 1.5m above C.D. |
| | | | 22°17'007"N | 113°55'034"E | |
| ST <i>Zostera Japonica</i> (search hour = 3 hrs) | | | | | |
| 20 | 70-80 | horizontal line | 22°17'012"N | 113°55'029"E | A horizontal strand of seagrass bed nearby the seaward side of mangrove area at tidal level 2.0 m above C.D. |
| | | | 22°17'012"N | 113°55'029"E | |
| ST <i>Halophila ovalis</i> (search hour = 3 hrs) | | | | | |
| 4 | 70-80 | horizontal line | 22°17'018"N | 113°55'030"E | A horizontal strand of seagrass bed nearby the seaward side of mangrove area at tidal level 1.5 m above C.D. |
| | | | 22°17'018"N | 113°55'030"E | |
| 12 | 50-60 | horizontal line | 22°17'017"N | 113°55'031"E | A horizontal strand of seagrass bed nearby the seaward side of mangrove area at tidal level 1.5 m above C.D. |
| | | | 22°17'017"N | 113°55'031"E | |
| 45 | 70-80 | horizontal line | 22°17'015"N | 113°55'030"E | A horizontal strand of seagrass bed nearby the seaward side of mangrove area at tidal level 1.5 m above C.D. |
| | | | 22°17'015"N | 113°55'030"E | |

| | | | | | |
|-----|-------|--------------------|----------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------|
| 480 | 60-70 | horizontal line | 22°17'013"N 22°17'013"N | 113°55'029"E 113°55'029"E | A horizontal strand of seagrass bed nearby the seaward side of mangrove area at tidal level 1.5 m above C.D. |
| 288 | 80-90 | horizontal line | 22°17'012"N 22°17'012"N | 113°55'032"E 113°55'032"E | A horizontal strand of seagrass bed nearby the seaward side of mangrove area at tidal level 1.5 m above C.D. |
| 450 | 70-80 | horizontal line | 22°17'010"N 22°17'010"N | 113°55'032"E 113°55'032"E | A horizontal strand of seagrass bed nearby the seaward side of mangrove area at tidal level 1.5 m above C.D. |

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

| Kingdom | Phylum | Class | Order | Family | Species |
|----------------|---------------|--------------|-------------------|---------------|-------------------------------------|
| Animalia | Annelida | Polycheata | Phyllodocida | Nereidae | <i>Perinereis</i> sp. |
| Animalia | Annelida | Polycheata | Phyllodocida | Nereididae | <i>Nereididae</i> spp. |
| 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 | Actinaria | 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 | Pterioda | Pteriidae | <i>Isognomon isognomum</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 | Nacellidae | <i>Cellana toreuma</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 oualaniensis</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> |

| Kingdom | Phylum | Class | Order | Family | Species |
|----------------|-----------------|----------------|-------------------|------------------|---------------------------------|
| 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 | Polyplacophora | Chitonida | Ischnochitonidae | <i>Lepidozona</i> spp. |
| Animalia | Nemertea | | | | <i>Nemertea</i> spp. |
| Animalia | Platyhelminthes | | | | <i>Platyhelminthes</i> sp. |
| Animalia | Sipuncula | Sipunculidae | Golfingiida | Sipunculidae | <i>Siphonosoma</i> sp. |
| 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

Sep 2021 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> | 6 | | | | 4 | | | | 3 | | 4 | | 2 | | | | 5 | | | | 24 |
| Bi | <i>Barbatia virescens</i> | 1 | | 3 | | 2 | | 6 | | | | 4 | | 2 | | 1 | | 4 | | 3 | | 26 |
| Bi | <i>Brachidontes variabilis</i> | 2 | | 2 | | 4 | | | | 5 | | | | | | 2 | | | | 1 | | 16 |
| Bi | <i>Glaucanome chinensis</i> | 1 | | | | 1 | | | | 2 | 1 | | | 3 | | | | 1 | 2 | 1 | | 12 |
| Bi | <i>Saccostrea cucullata</i> | 36 | | 44 | | 24 | | 15 | | 41 | | 28 | | 29 | | 32 | | 38 | | 22 | | 309 |
| Bi | <i>Xenostrobus atratus</i> | 6 | | | | 9 | | 7 | | | | 6 | | 5 | | 12 | | 5 | | 6 | | 56 |
| C | <i>Gaetice depressus</i> | 1 | 1 | | | 1 | | 1 | | | | | | | | 1 | 1 | | 1 | | | 7 |
| C | <i>Hemigrapsus penicillatus</i> | | | 1 | | | | | | | | 1 | | 1 | | 1 | | | | 1 | | 5 |
| C | <i>Metopograpsus latifrons</i> | | | | | 2 | | 1 | | | | | | | | 1 | | | | | | 4 |
| C | <i>Pagurus dubius</i> | 1 | | 2 | | | | | | 3 | | 4 | | 2 | | | | 3 | | 1 | | 16 |
| G | <i>Batillaria multiformis</i> | 5 | | 2 | | 3 | | | | 9 | | 2 | | 4 | | 11 | | 4 | | 8 | | 48 |
| G | <i>Batillaria zonalis</i> | 2 | | 4 | | 5 | | 3 | | 4 | | 3 | | 6 | | 5 | | 6 | | 8 | | 46 |
| Cn | <i>Diadumene lineata</i> | | | 1 | | | | | | | | 1 | | | | | | | | | | 2 |
| G | <i>Cellana toreuma</i> | 2 | | | | 3 | | 3 | | 2 | | | | 1 | | 2 | | 2 | | 2 | | 17 |
| G | <i>Chlorostoma argyrostomum</i> | | | 1 | | | | | | 1 | | 3 | | | | 1 | | | | 2 | | 8 |
| G | <i>Clithon faba</i> | | | 2 | | 1 | | | | 4 | | | | 5 | | 3 | | | | | | 15 |
| G | <i>Littoraria articulata</i> | 1 | | 5 | | 11 | | 6 | | 8 | | 7 | | 6 | | 4 | | 4 | | 8 | | 60 |
| G | <i>Lottia dorsuosa</i> | | | | | 3 | | 2 | | | | 4 | | 2 | | 2 | | 1 | | 2 | | 16 |
| G | <i>Lottia luchuana</i> | | | 2 | | | | | | | | 1 | | 2 | | 1 | | 2 | | 1 | | 9 |

| | | | | | | | | | | | | |
|----|------------------------------|----|----|----|----|----|----|----|----|----|----|-----|
| G | <i>Lunella coronata</i> | 2 | 4 | 4 | 2 | 2 | 4 | 5 | 6 | 4 | 5 | 38 |
| G | <i>Lunella granulata</i> | 1 | 4 | 1 | 3 | 1 | 2 | 3 | 2 | 4 | 1 | 22 |
| G | <i>Monodonta labio</i> | 21 | 19 | 18 | 23 | 26 | 13 | 31 | 19 | 20 | 26 | 216 |
| G | <i>Nipponacmea concinna</i> | 3 | | 5 | 2 | 4 | 3 | | 1 | 3 | 1 | 22 |
| G | <i>Nodilittorina radiata</i> | | 2 | | 4 | | | 5 | | | 5 | 16 |
| G | <i>Patelloida pygmaea</i> | | 2 | 1 | | 2 | 2 | 3 | 2 | | 3 | 15 |
| P | <i>Nereididae spp.</i> | | 1 | | | 2 | 1 | | | 1 | 1 | 7 |
| G | <i>Pirenella asiatica</i> | | | | 3 | | | 1 | | | | 4 |
| P | <i>Sabellidae imbricatus</i> | | | | 1 | | | 1 | | | | 2 |
| Po | <i>Lepidozona spp.</i> | | 1 | | | | 1 | | | 1 | | 3 |
| Sp | <i>Siphonosoma sp.</i> | | 1 | | | | | | 1 | | 1 | 3 |

Total 1044

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 2021 Sampling Zone TC1 | | Mid tidal level (1.5 m above C.D.) | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---------------------------------|------------------------------------|---|----|---|----|---|---|---|----|---|----|---|---|---|----|---|---|---|----|---|-----------|
| Gp | Taxon | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | | Sub-total |
| | | Q | C | Q | C | Q | C | Q | C | Q | C | Q | C | Q | C | Q | C | Q | C | Q | C | |
| Ba | <i>Balanus amphitrite</i> | | | 1 | | | | 2 | | | | 5 | | | | 4 | | | | 4 | | 16 |
| Bi | <i>Barbatia virescens</i> | 1 | | | | 1 | | | | 3 | | 2 | | | 2 | | | 3 | | | | 12 |
| Bi | <i>Brachidontes variabilis</i> | | | | | | | | | 1 | | | | | | | | | | | | 1 |
| Bi | <i>Glaucanome chinensis</i> | 2 | | | 1 | 1 | 1 | 1 | | 2 | | | | 3 | 2 | | 1 | | | | 1 | 15 |
| Bi | <i>Saccostrea cucullata</i> | 11 | | 18 | | 12 | | 9 | | 11 | | 16 | | 7 | | 14 | | 9 | | 11 | | 118 |
| Bi | <i>Xenostrobus atratus</i> | | | 3 | | 2 | | | | 3 | | 2 | | 3 | | 2 | | 5 | | 3 | | 23 |
| C | <i>Gaetice depressus</i> | 1 | | 2 | 1 | | | 1 | | 1 | | 1 | | | | 2 | | | | 1 | | 10 |
| C | <i>Hemigrapsus penicillatus</i> | | | 1 | | | | | | | | | | 1 | | | | | | | | 2 |
| C | <i>Metopograpsus latifrons</i> | 1 | | | | | | 1 | | 2 | | | | | | 1 | | 1 | | | | 6 |
| G | <i>Batillaria multiformis</i> | 2 | | 3 | | 1 | | 2 | | 3 | | 4 | | 2 | | 2 | | 6 | | 3 | | 28 |
| G | <i>Batillaria zonalis</i> | 2 | | 4 | | | | 1 | | 4 | | 2 | | 6 | | 3 | | 2 | | | | 24 |
| G | <i>Chlorostoma argyrostomum</i> | 1 | | 2 | | | | | | | | | | | | 1 | | 1 | | 1 | | 6 |
| G | <i>Clithon faba</i> | | | 1 | | | | | | | | 1 | | 1 | | | | 3 | | | | 6 |
| G | <i>Clithon retropictus</i> | | | | | | | | | 2 | | | | | | 2 | | | | | | 4 |
| G | <i>Littoraria articulata</i> | 2 | | 6 | | | | 1 | | | | 2 | | 4 | | 2 | | | | 2 | | 19 |
| G | <i>Lottia dorsuosa</i> | | | | | | | | | | | 3 | | 1 | | 1 | | 2 | | 1 | | 8 |
| G | <i>Lunella coronata</i> | 1 | | 2 | | 1 | | 2 | | 1 | | 1 | | 1 | | | | 3 | | 1 | | 13 |
| G | <i>Lunella granulata</i> | 1 | | | | 2 | | 2 | | | | 1 | | 2 | | 1 | | 1 | | 1 | | 11 |

| | | | | | | | | | | | | |
|----|------------------------------|---|----|---|---|---|----|----|----|----|--------------|------------|
| G | <i>Monodonta labio</i> | 6 | 10 | 7 | 8 | 5 | 12 | 13 | 15 | 15 | 12 | 103 |
| G | <i>Nerita squamulata</i> | | | | 1 | | | 1 | | | | 2 |
| G | <i>Nipponacmea concinna</i> | | 1 | | | | | 2 | | 1 | | 4 |
| G | <i>Nodilittorina radiata</i> | 2 | | 1 | | | 2 | | 1 | 1 | 1 | 8 |
| G | <i>Patelloida pygmaea</i> | | | | | | | | | 1 | 1 | 2 |
| G | <i>Pirenella asiatica</i> | | | 1 | 1 | | | | | | 1 | 3 |
| P | <i>Nereididae spp.</i> | | 1 | | 1 | | 1 | | | | | 4 |
| Po | <i>Lepidozona spp.</i> | | | | | | | | | | 1 | 1 |
| Sp | <i>Siphonosoma sp.</i> | | 1 | | | 1 | | 1 | | | | 3 |
| Sp | <i>Sipunculus nudus</i> | | 1 | 1 | | 1 | 1 | | | 1 | | 5 |
| | | | | | | | | | | | Total | 457 |

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 2021 Sampling Zone TC1

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 | <i>Balanus amphitrite</i> | | | 2 | | | | | | | | 3 | | 2 | | | | | | | | 7 |
| Bi | <i>Barbatia virescens</i> | | | 1 | | | 2 | | | | 1 | | | | | | | | | 1 | | 5 |
| Bi | <i>Anomalocardiasquamosa</i> | | | | | | | | | | | | | | | | | | 1 | | | 1 |
| Bi | <i>Brachidontes variabilis</i> | 1 | | | | | | | | 1 | | | | | | | | | 1 | | | 3 |
| Bi | <i>Glaucanome chinensis</i> | | 1 | | 1 | | | 3 | | | 1 | 1 | 1 | | | 1 | | 2 | 1 | | | 12 |
| Bi | <i>Saccostrea cucullata</i> | 18 | 6 | 10 | 11 | 12 | 8 | 15 | 12 | 10 | 6 | | | | | | | | | | | 108 |
| Bi | <i>Xenostrobus atratus</i> | 2 | 2 | 2 | | | | 3 | | | 2 | 4 | 3 | | | | | | | | | 18 |
| C | <i>Gaetice depressus</i> | | | | | 1 | | | | 1 | | | | 1 | 1 | 1 | | | | | | 5 |
| C | <i>Hemigrapsus penicillatus</i> | | 1 | | | | | | | | | | | | | | | 1 | | | | 2 |
| C | <i>Metopograpsus latifrons</i> | | | | | 1 | | | | | | 1 | 1 | | | | | | | | | 3 |
| C | <i>Pagurus dubius</i> | | | 2 | | | | | | 1 | | | 2 | | | | | | 2 | | | 7 |
| Cn | <i>Diadumene lineata</i> | 1 | | | | | | | | 1 | | | | | | | | | | | | 2 |
| G | <i>Batillaria multiformis</i> | | | | 1 | 3 | | | | 3 | 1 | 1 | | | | | | | | 2 | | 11 |
| G | <i>Batillaria zonalis</i> | | 2 | | | 1 | 2 | | | | 2 | 3 | | | | | | | | 1 | | 11 |
| G | <i>Chlorostoma argyrostomum</i> | | | | | 1 | | | | | 1 | | | | | | | | | | | 2 |
| G | <i>Clithon retropictus</i> | | | 2 | 3 | | | | | | | | | | | | | | | 1 | | 6 |
| G | <i>Littoraria articulata</i> | 2 | 3 | 5 | 4 | | | | | 2 | | | 3 | 4 | | | | | | | | 23 |
| G | <i>Lottia dorsuosa</i> | | | | 1 | | | 1 | | | | | | | | | | | | | | 2 |
| G | <i>Lottia luchuana</i> | 2 | | | | | | | | 1 | | | | | | | | | | | | 3 |

| | | | | | | | | | | | | |
|----|------------------------------|---|---|----|----|---|---|----|---|---|--------------|------------|
| G | <i>Lunella coronata</i> | 1 | 2 | | 1 | 1 | | 2 | 1 | 2 | 1 | 11 |
| G | <i>Lunella granulata</i> | | 1 | | | | 2 | 1 | | 2 | | 6 |
| G | <i>Monodonta labio</i> | 5 | 8 | 15 | 10 | 6 | 8 | 13 | 8 | 6 | 5 | 84 |
| G | <i>Nerita lineata</i> | | | 1 | | | | 1 | | | | 2 |
| G | <i>Nerita polita</i> | 1 | | | | | | | | | | 1 |
| G | <i>Nerita squamulata</i> | | | | | | 2 | | | | | 2 |
| G | <i>Nipponacmea concinna</i> | 1 | | | 1 | | | | | | | 2 |
| G | <i>Nodilittorina radiata</i> | | 2 | | | 2 | | 1 | 2 | | | 7 |
| G | <i>Patelloida pygmaea</i> | | 1 | 1 | | | | 2 | | | | 4 |
| P | <i>Nereididae spp.</i> | | 1 | | 2 | 1 | | | | 1 | 1 | 6 |
| P | <i>Sabellidae imbricatus</i> | | | | | | | | 1 | | | 1 |
| Po | <i>Lepidozона spp.</i> | | | | | | 1 | | | | | 1 |
| Sp | <i>Siphonosoma sp.</i> | | 1 | | | 1 | | | | | | 2 |
| Sp | <i>Sipunculus nudus</i> | | | | | | 1 | | | | | 1 |
| | | | | | | | | | | | Total | 361 |

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 2021 Sampling Zone TC2

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

| Gp | Taxon | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | | Sub-total |
|----|-------------------------------------|----|----|----|----|----|---|----|----|----|----|---|---|---|---|---|---|---|---|----|---|-----------|
| | | Q | C | Q | C | Q | C | Q | C | Q | C | Q | C | Q | C | Q | C | Q | C | Q | C | |
| Ba | <i>Balanus amphitrite</i> | 4 | | | | | | 3 | 3 | 2 | 6 | 2 | 5 | | | | | | | | | 25 |
| Bi | <i>Barbatia virescens</i> | 2 | 3 | 3 | 4 | 3 | 1 | 4 | 4 | 2 | 1 | 4 | 4 | 2 | | | | | 1 | | | 27 |
| Bi | <i>Brachidontes variabilis</i> | | | 2 | 5 | 4 | | | | | | 2 | 3 | | | | | | | 1 | | 17 |
| Bi | <i>Glauconome chinensis</i> | | 1 | 1 | 2 | | | | 2 | 1 | 1 | 3 | | 1 | | | | | | | 2 | 14 |
| Bi | <i>Saccostrea cucullata</i> | 19 | 26 | 36 | 14 | 25 | 8 | 32 | 35 | 29 | 13 | | | | | | | | | | | 237 |
| Bi | <i>Xenostrobus atratus</i> | 6 | 5 | 3 | 5 | 8 | 1 | 5 | 2 | 8 | 3 | | | | | | | | | | | 46 |
| C | <i>Gaetice depressus</i> | 1 | 2 | 1 | | 1 | 1 | 2 | 1 | | | | | 1 | 1 | 1 | 1 | | | | | 13 |
| C | <i>Hemigrapsus penicillatus</i> | | | 1 | 1 | 1 | | | | | | | 1 | | | | | | | | | 4 |
| C | <i>Metopograpsus latifrons</i> | 1 | | | 1 | | | 1 | | | 1 | | | 1 | | | | | | | | 5 |
| C | <i>Metopograpsus quadridentatus</i> | | | 1 | | | | | | | | | | | | | | 1 | | | | 2 |
| C | <i>Parasesarma bidens</i> | | | | 1 | 1 | | | | | | | | | | | | | | 1 | | 3 |
| Cn | <i>Diadumene lineata</i> | | | | | 1 | | | | | | | | | | | | | | | | 1 |
| G | <i>Batillaria multiformis</i> | | | 1 | | 4 | 6 | 5 | 2 | 2 | 7 | 1 | | | | | | | | | | 28 |
| G | <i>Batillaria zonalis</i> | 2 | 2 | 3 | 5 | 8 | 3 | | 4 | 5 | | | | | | | | | | | | 32 |
| G | <i>Chlorostoma argyrostomum</i> | | | 1 | 2 | 2 | | | | | | | 1 | 2 | 1 | | | | | | | 9 |
| G | <i>Clithon retropictus</i> | | | | 3 | 4 | 4 | 2 | 4 | | | | | 1 | 3 | | | | | | | 21 |
| G | <i>Littoraria articulata</i> | | | 5 | 8 | 10 | 8 | | 13 | 5 | 3 | | | | | | | | | | | 52 |
| G | <i>Lottia dorsuosa</i> | 4 | 2 | 2 | 1 | 4 | | 2 | 3 | 2 | | | | | | | | | | | | 20 |
| G | <i>Lunella coronata</i> | 4 | 2 | 5 | 3 | 2 | 1 | 4 | 5 | 2 | | | | | | | | | | | | 28 |

| | | | | | | | | | | | | |
|----|------------------------------|----|----|----|---|----|----|----|----|----|--------------|------------|
| G | <i>Lunella granulata</i> | 3 | 3 | 3 | 3 | | | 3 | 1 | 3 | | 19 |
| G | <i>Monodonta labio</i> | 15 | 17 | 20 | 8 | 26 | 10 | 22 | 12 | 16 | 8 | 154 |
| G | <i>Nerita squamulata</i> | 2 | | 5 | | 1 | | 5 | 1 | | 2 | 16 |
| G | <i>Nipponacmea concinna</i> | 5 | 3 | 2 | 2 | 4 | | | 3 | | 2 | 21 |
| G | <i>Nodilittorina radiata</i> | 4 | 4 | 2 | 5 | 1 | | | | 2 | 3 | 21 |
| G | <i>Patelloida pygmaea</i> | 2 | 1 | | | | | | | 4 | 1 | 8 |
| G | <i>Pirenella asiatica</i> | 1 | 1 | 2 | | | 1 | | | | | 5 |
| Ne | <i>Nemertea sp.</i> | 1 | | 1 | | | 1 | 1 | 1 | | 1 | 2 |
| Po | <i>Lepidozona spp.</i> | 1 | 1 | 1 | | | | | | 2 | | 5 |
| Sp | <i>Siphonosoma sp.</i> | | | | | 1 | | 1 | 1 | | | 1 |
| | | | | | | | | | | | Total | 846 |

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 2021 Sampling Zone TC2

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 | | | | 4 | | 2 | | | | 5 | | 6 | | 4 | | | | 5 | | 30 |
| Bi | <i>Barbatia virescens</i> | 4 | | 3 | | 3 | | 1 | | | | 2 | | 5 | | | | 4 | | 3 | | 25 |
| Bi | <i>Brachidontes variabilis</i> | 2 | | | | 3 | | 2 | | 4 | | 2 | | 2 | | | | 3 | | 2 | | 20 |
| Bi | <i>Anomalocardiasquamosa</i> | | 1 | | | | 1 | | | | | | | | | | 1 | | | | 1 | 4 |
| Bi | <i>Ruditapes philippinarum</i> | | | | | | | | | | 1 | | | | | | 1 | | 1 | | | 3 |
| Bi | <i>Glaucanome chinensis</i> | | 1 | 1 | | | 1 | | 1 | 2 | 1 | 1 | 1 | 1 | | | | 1 | | 1 | 1 | 13 |
| Bi | <i>Saccostrea cucullata</i> | 14 | | 27 | | 20 | | 14 | | 9 | | 34 | | 26 | | 11 | | 19 | | 22 | | 196 |
| Bi | <i>Xenostrobus atratus</i> | 5 | | 2 | | 4 | | 5 | | 2 | | 9 | | 5 | | 2 | | 7 | | 6 | | 47 |
| C | <i>Gaetice depressus</i> | 1 | | 1 | 1 | | | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 14 |
| C | <i>Hemigrapsus penicillatus</i> | | | | | 1 | | | | | | | | | | | | | | | 1 | 2 |
| C | <i>Metopograpsus latifrons</i> | 1 | | | | 1 | | | | | | 1 | | | | 1 | | | | 1 | | 5 |
| C | <i>Pagurus dubius</i> | | | 2 | | | | 1 | | 2 | | 1 | | | | | | 1 | | | | 7 |
| Cn | <i>Diadumene lineata</i> | 1 | | | | | | | | | | 1 | | 1 | | | | | | | 1 | 4 |
| G | <i>Batillaria multiformis</i> | | | | | 2 | | 1 | | 2 | | 5 | | 2 | | 3 | | 3 | | 1 | | 19 |
| G | <i>Batillaria zonalis</i> | 5 | | | | 3 | | 5 | | 1 | | 3 | | 10 | | 2 | | | | 4 | | 33 |
| G | <i>Clithon faba</i> | 2 | | 4 | | 2 | | | | | | 2 | | 3 | | 2 | | 1 | | 2 | | 18 |
| G | <i>Clithon retropictus</i> | 3 | | 2 | | | | 5 | | 2 | | 5 | | 2 | | | | 2 | | 2 | | 23 |
| G | <i>Littoraria articulata</i> | 12 | | 6 | | 5 | | 7 | | 5 | | 5 | | 6 | | 8 | | 10 | | 7 | | 71 |
| G | <i>Lottia dorsuosa</i> | | | 2 | | | | | | 1 | | 2 | | 2 | | 2 | | 3 | | 2 | | 14 |

| | | | | | | | | | | | | |
|--------------|------------------------------|----|----|----|----|----|----|----|----|----|------------|-----|
| G | <i>Lunella coronata</i> | 2 | 2 | 2 | 1 | 2 | 4 | 2 | 4 | 4 | 3 | 26 |
| G | <i>Lunella granulata</i> | 1 | 2 | 2 | | 1 | 1 | 2 | 2 | | 2 | 13 |
| G | <i>Monodonta labio</i> | 18 | 15 | 12 | 13 | 14 | 21 | 15 | 14 | 11 | 18 | 151 |
| G | <i>Nipponacmea concinna</i> | 2 | 3 | | | 1 | 2 | | 2 | 4 | 1 | 15 |
| G | <i>Nodilittorina radiata</i> | 1 | 2 | | 2 | 2 | 3 | 2 | 2 | 2 | 4 | 20 |
| G | <i>Patelloida pygmaea</i> | 2 | 1 | 3 | 1 | 3 | 3 | 1 | 1 | 1 | | 16 |
| Ne | <i>Nemertea spp.</i> | | | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| Po | <i>Lepidozona spp.</i> | | | | | 1 | 1 | | | | 1 | 3 |
| Sp | <i>Siphonosoma sp.</i> | 1 | | 1 | | | 1 | 2 | 1 | 1 | 1 | 8 |
| Sp | <i>Sipunculus nudus</i> | | 1 | | | 1 | | | | 1 | 1 | 4 |
| Total | | | | | | | | | | | 812 | |

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 2021 Sampling Zone TC2

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 | <i>Balanus amphitrite</i> | | | 2 | | 2 | | | | | | | | 1 | | | | | | | | 5 |
| Bi | <i>Anomalocardia squamosa</i> | | | 1 | | | 1 | 1 | 1 | | | | | 1 | 1 | 1 | | | 2 | | | 9 |
| Bi | <i>Ruditapes philippinarum</i> | | | 1 | 1 | 1 | | | | 1 | | 1 | | 2 | | 2 | | 1 | 1 | 1 | | 13 |
| Bi | <i>Barbatia virescens</i> | 1 | | | | 1 | | | | | | | | | | 1 | | | | | 2 | 5 |
| Bi | <i>Brachidontes variabilis</i> | 2 | | | | | | | | | | | | | | | | | | | | 2 |
| Bi | <i>Glauconome chinensis</i> | 1 | | 2 | 1 | 1 | 2 | | | 1 | | | | 1 | | 2 | | 1 | 1 | 1 | | 14 |
| Bi | <i>Isognomon isognomum</i> | | | | | | 1 | | | | | | | | | | | | | | | 1 |
| Bi | <i>Saccostrea cucullata</i> | 6 | | | | 15 | 8 | 4 | | 2 | | 5 | | 10 | | 5 | | | 2 | | | 57 |
| Bi | <i>Xenostrobus atratus</i> | | | | | 5 | | | | 2 | | | | 3 | | | | | | | | 10 |
| C | <i>Gaetice depressus</i> | | | 1 | | 1 | 1 | 1 | | 1 | | | | 1 | | 1 | | 1 | | | | 8 |
| C | <i>Hemigrapsus penicillatus</i> | | | 1 | | | | | | 1 | | | | | | | | | | | | 2 |
| C | <i>Metopograpsus latifrons</i> | | | | | | 1 | | | | | | | | | | | | | | | 1 |
| C | <i>Pagurus dubius</i> | 1 | | 1 | | 1 | | | | | | 1 | | | | | | 1 | | | | 5 |
| Cn | <i>Diadumene lineata</i> | | | | | | | | | | | 1 | | 1 | | | | | | | | 2 |
| G | <i>Batillaria multiformis</i> | 2 | | 1 | | 1 | | | | | | 2 | | | | 4 | | | | | | 10 |
| G | <i>Batillaria zonalis</i> | | | 3 | | | | | | | | 1 | | | | 1 | | | | 2 | | 7 |
| G | <i>Clithon retropictus</i> | 1 | | 1 | | 2 | | | | | | | | | | 2 | | 1 | | | | 7 |
| G | <i>Littoraria articulata</i> | 3 | | | | 5 | | | | 4 | | | | | | 2 | | | | | | 14 |
| G | <i>Lottia dorsuosa</i> | 2 | | | | 1 | | 2 | | | | | | | | | | | | | 1 | 6 |

| | | | | | | | | | | | | |
|----|------------------------------|---|---|---|---|---|---|---|---|---|--------------|------------|
| G | <i>Lunella coronata</i> | | 1 | 3 | 2 | | | 2 | 2 | 1 | 1 | 12 |
| G | <i>Lunella granulata</i> | 1 | | 1 | | 1 | 1 | 1 | | | 1 | 6 |
| G | <i>Monodonta labio</i> | 2 | 4 | 8 | 5 | 5 | 5 | 3 | 4 | 3 | 2 | 41 |
| G | <i>Nipponacmea concinna</i> | | | 1 | 1 | | | | | | | 2 |
| G | <i>Nodilittorina radiata</i> | | | 2 | 3 | 1 | | 1 | | | | 7 |
| G | <i>Patelloida pygmaea</i> | | | | 2 | | | 1 | | | | 3 |
| P | <i>Nereididae spp.</i> | | 1 | 1 | | 1 | 1 | 1 | 2 | 1 | 1 | 10 |
| P | <i>Sabellidae imbricatus</i> | | | 1 | 1 | | 1 | | 1 | | | 4 |
| Po | <i>Lepidozona spp.</i> | | | | 1 | | | | | | | 1 |
| Sp | <i>Siphonosoma sp.</i> | | 1 | | | 2 | 2 | 1 | | | 1 | 7 |
| Sp | <i>Sipunculus nudus</i> | | | | 1 | | | | | | 1 | 2 |
| | | | | | | | | | | | Total | 273 |

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 2021 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 | |
| Ba | <i>Balanus amphitrite</i> | 6 | | 4 | | 9 | | 5 | | 8 | | 8 | | 6 | | | | 3 | | 8 | | 57 |
| Bi | <i>Barbatia virescens</i> | 2 | | 5 | | 3 | | 6 | | 5 | | 3 | | 5 | | 6 | | 3 | | 4 | | 42 |
| Bi | <i>Brachidontes variabilis</i> | 3 | | | | 4 | | | | 3 | | 3 | | 3 | | 5 | | 1 | | 2 | | 24 |
| Bi | <i>Glaucanome chinensis</i> | 1 | 1 | 2 | | 1 | | | | 2 | | 2 | | 1 | 1 | 2 | | 1 | 1 | 2 | 1 | 18 |
| Bi | <i>Saccostrea cucullata</i> | 38 | | 19 | | 32 | | 44 | | 46 | | 17 | | 28 | | 31 | | 18 | | 37 | | 310 |
| Bi | <i>Xenostrobus atratus</i> | 5 | | 2 | | 10 | | 8 | | 9 | | 5 | | 4 | | 4 | | 11 | | 9 | | 67 |
| C | <i>Gaetice depressus</i> | 1 | | | | 1 | 1 | 1 | | 2 | | 1 | | 1 | | 2 | 1 | 1 | | 1 | | 13 |
| C | <i>Metopograpsus latifrons</i> | 1 | | 1 | | 1 | | 1 | | 1 | | | | | | 1 | | | | 1 | | 7 |
| C | <i>Pagurus dubius</i> | 2 | | | | | | 2 | | 2 | | 1 | | 3 | | | | 1 | 1 | | | 12 |
| G | <i>Batillaria multiformis</i> | | | 6 | | | | | | | | 2 | | | | | | 1 | | | | 9 |
| G | <i>Batillaria zonalis</i> | 2 | | 2 | | | | 2 | | | | | | | | 2 | | | | | | 8 |
| G | <i>Clithon oualaniensis</i> | 1 | | 3 | | 2 | | 4 | | 3 | | 1 | | 2 | | 4 | | 3 | | 3 | | 26 |
| G | <i>Clithon retropictus</i> | 1 | | 1 | | 2 | | 2 | | 5 | | 1 | | 4 | | 3 | | 1 | | 5 | | 25 |
| G | <i>Littoraria articulata</i> | 6 | | 8 | | 5 | | 8 | | 12 | | 6 | | 5 | | 4 | | 4 | | 14 | | 72 |
| G | <i>Lunella coronata</i> | 2 | | 2 | | 3 | | 3 | | 4 | | 5 | | 4 | | 2 | | 5 | | 7 | | 37 |
| G | <i>Lunella granulata</i> | 3 | | 2 | | 1 | | 2 | | 4 | | | | 1 | | 1 | | 2 | | 1 | | 17 |
| G | <i>Monodonta labio</i> | 18 | | 10 | | 6 | | 18 | | 15 | | 16 | | 17 | | 21 | | 10 | | 22 | | 153 |
| G | <i>Nerita chamaeleon</i> | 2 | | | | 2 | | 2 | | 2 | | | | 3 | | 3 | | 2 | | 3 | | 19 |
| G | <i>Nerita polita</i> | 1 | | 2 | | 4 | | | | | | 1 | | 1 | | | | 3 | | | | 12 |

| | | | | | | | | | | | | |
|----|------------------------------|---|---|---|---|---|---|---|---|---|--------------|-------------|
| G | <i>Nerita squamulata</i> | 2 | 1 | 2 | 4 | 3 | | | 2 | | 1 | 15 |
| G | <i>Nipponacmea concinna</i> | 4 | 2 | 3 | | 5 | 8 | 2 | 2 | 4 | | 30 |
| G | <i>Nodilittorina radiata</i> | 2 | 3 | 3 | 3 | 3 | 3 | | 3 | 3 | | 23 |
| G | <i>Patelloida pygmaea</i> | 2 | 2 | 2 | 2 | | | 5 | 6 | | 1 | 20 |
| G | <i>Pirenella incisa</i> | | | 1 | | | | | 1 | 2 | | 4 |
| G | <i>Thais clavigera</i> | | 1 | | | 1 | | 1 | | | 1 | 4 |
| P | <i>Nereididae spp.</i> | | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | 7 |
| P | <i>Perinereis sp.</i> | 1 | | | | | | | | | | 1 |
| Po | <i>Lepidozona spp.</i> | 1 | 2 | | | | | 1 | | | | 4 |
| Sp | <i>Siphonosoma sp.</i> | | | | 1 | 1 | | 1 | 1 | 1 | 1 | 8 |
| P | <i>Sabellidae imbricatus</i> | | 1 | 1 | 1 | | | | | 1 | 1 | 6 |
| PI | <i>Platyhelminthes</i> | | | | | | | | 1 | | | 1 |
| | | | | | | | | | | | Total | 1051 |

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 2021 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> | | | | | | | | | | | | | | 3 | | | | | | 3 | 6 |
| Bi | <i>Barbatia virescens</i> | 2 | | 1 | | 7 | | 2 | | 2 | | 3 | | 5 | | 2 | | 3 | | | | 27 |
| Bi | <i>Brachidontes variabilis</i> | 3 | | 3 | | 5 | | 3 | | 2 | | 6 | | | | 3 | | 2 | | 7 | | 34 |
| Bi | <i>Glaucanome chinensis</i> | 1 | | 1 | | 3 | | | | 2 | | | | | | | | 8 | | 3 | | 18 |
| Bi | <i>Saccostrea cucullata</i> | 25 | | 30 | | 45 | | 23 | | 36 | | 48 | | 20 | | 21 | | 38 | | 53 | | 339 |
| Bi | <i>Xenostrobus atratus</i> | | | | | | | 11 | | 8 | | 7 | | 3 | | 7 | | 6 | | 2 | | 44 |
| C | <i>Gaetice depressus</i> | 2 | | | | 2 | | | | 1 | | 2 | | 3 | | | | 1 | | 1 | | 12 |
| C | <i>Metopograpsus latifrons</i> | 1 | | 1 | | 3 | | | | 3 | | 1 | | 1 | | | | 2 | | 3 | | 15 |
| C | <i>Pagurus dubius</i> | | | | | | | | | 1 | | | | | | | | | | | | 1 |
| G | <i>Batillaria multiformis</i> | 25 | | 27 | | 12 | | 12 | | 7 | | 23 | | 15 | | 2 | | | | | | 123 |
| G | <i>Batillaria zonalis</i> | 13 | | 20 | | 3 | | 20 | | 3 | | 12 | | 6 | | 1 | | | | 2 | | 80 |
| G | <i>Chlorostoma argyrostomum</i> | | | | | | | 1 | | | | | | 2 | | | | | | | | 3 |
| G | <i>Clithon faba</i> | | | | | 2 | | 2 | | | | | | | | 2 | | 7 | | | | 13 |
| G | <i>Clithon oualaniense</i> | | | | | 2 | | 5 | | 10 | | 2 | | 7 | | | | 2 | | 3 | | 31 |
| G | <i>Clithon retropictus</i> | | | | | | | 8 | | | | | | | | | | | | 2 | | 10 |
| G | <i>Littoraria articulata</i> | | | 2 | | 2 | | | | 3 | | | | | | 1 | | 3 | | | | 11 |
| G | <i>Lottia dorsuosa</i> | | | | | | | 2 | | | | 2 | | | | | | | | 3 | | 7 |
| G | <i>Lunella coronata</i> | 2 | | 3 | | 3 | | | | | | 7 | | 10 | | 1 | | | | | | 26 |
| G | <i>Lunella granulata</i> | 3 | | 2 | | 7 | | | | 3 | | 10 | | 7 | | 3 | | 7 | | 9 | | 51 |

| | | | | | | | | | | | |
|--------------|------------------------------|----|----|----|---|----|----|---|----|-------------|-----|
| G | <i>Monodonta labio</i> | 17 | 12 | 21 | 3 | 29 | 26 | 8 | 19 | 19 | 154 |
| G | <i>Nerita chamaeleon</i> | 1 | 3 | | 5 | 1 | | 1 | 2 | 2 | 15 |
| G | <i>Nerita lineata</i> | | | 3 | | | 1 | | 1 | 6 | 11 |
| G | <i>Nerita polita</i> | | | | | 3 | | | | | 3 |
| G | <i>Nerita squamulata</i> | 3 | | | | | | | 3 | 1 | 7 |
| G | <i>Nipponacmea concinna</i> | | | 2 | 2 | 2 | 3 | 2 | | 3 | 14 |
| G | <i>Nodilittorina radiata</i> | | | 3 | | 7 | | 1 | 2 | | 13 |
| G | <i>Patelloida pygmaea</i> | | 1 | | | 2 | 2 | 1 | | 2 | 8 |
| G | <i>Pirenella asiatica</i> | 3 | 10 | 3 | 2 | 5 | | | | | 23 |
| G | <i>Pirenella incisa</i> | 2 | 9 | 2 | 8 | | 2 | 3 | 5 | | 31 |
| Ne | <i>Nemertea spp.</i> | | 2 | 1 | 1 | 2 | | 2 | 1 | 2 | 14 |
| P | <i>Sabellidae imbricatus</i> | 5 | 2 | 2 | 3 | 2 | 2 | | | 3 | 19 |
| Po | <i>Lepidozona spp.</i> | 3 | 1 | 3 | 2 | 1 | 2 | 1 | 1 | 2 | 17 |
| Sp | <i>Siphonosoma sp.</i> | 1 | 1 | 2 | | 1 | 2 | 1 | | 2 | 10 |
| Sp | <i>Sipunculus nudus</i> | | 1 | 1 | | 1 | 1 | | | 1 | 5 |
| Total | | | | | | | | | | 1195 | |

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 2021 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 | <i>Balanus amphitrite</i> | | | 3 | | 2 | | 1 | | 2 | | | | 3 | | | | | | 3 | | 14 |
| Bi | <i>Barbatia virescens</i> | 2 | | 2 | | 2 | | 2 | | 3 | | | | 2 | | | | 3 | | 1 | | 17 |
| Bi | <i>Anomalocardia squamosa</i> | | | 1 | | 1 | | | | | | 2 | | 2 | 1 | | 2 | | | | 1 | 10 |
| Bi | <i>Ruditapes philippinarum</i> | | | | | 2 | | | | 1 | 2 | | | | | | 3 | | | | | 8 |
| Bi | <i>Brachidontes variabilis</i> | 2 | | | | | | | | 2 | | | | 5 | | 2 | | | | | | 11 |
| Bi | <i>Glauconome chinensis</i> | | | 3 | | | | 2 | | | | | | 2 | | | | | | | | 7 |
| Bi | <i>Saccostrea cucullata</i> | 38 | | 35 | | 39 | | 28 | | 52 | | 15 | | 42 | | 10 | | 35 | | 48 | | 342 |
| Bi | <i>Xenostrobus atratus</i> | 3 | | 10 | | | 1 | | | 8 | | | | 8 | | | | 10 | | 2 | | 42 |
| C | <i>Gaetice depressus</i> | 2 | | 2 | | 2 | | 2 | | 2 | | 1 | | 3 | | 2 | | 2 | | | | 18 |
| C | <i>Metopograpsus latifrons</i> | 2 | | 1 | | 1 | | 3 | | | | | | 2 | | 2 | | 3 | | | | 14 |
| G | <i>Batillaria multiformis</i> | | | 7 | | | | 2 | | | | | | 2 | | | | 5 | | 13 | | 29 |
| G | <i>Batillaria zonalis</i> | 5 | | 9 | | | | 1 | | | | | | 5 | | | | 3 | | 3 | | 26 |
| G | <i>Clithon oualaniensis</i> | 1 | | | | | | | | | | | | | | | | 2 | | | | 3 |
| G | <i>Littoraria articulata</i> | 3 | | | | 3 | | | | | | | | 3 | | | | | | 1 | | 10 |
| G | <i>Lottia dorsuosa</i> | | | | | 5 | | | | | | | | | | | | | | | | 5 |
| G | <i>Lunella coronata</i> | 3 | | 3 | | 3 | | | | 3 | | 2 | | 3 | | 1 | | 4 | | 6 | | 28 |
| G | <i>Lunella granulata</i> | 5 | | 5 | | 2 | | 3 | | 2 | | | | 2 | | 3 | | 5 | | 6 | | 33 |
| G | <i>Monodonta labio</i> | 10 | | 5 | | 15 | | 12 | | 10 | | 2 | | 14 | | | | 16 | | 17 | | 101 |
| G | <i>Nipponacmea concinna</i> | 2 | | 3 | | | | 2 | | 3 | | | | | | 3 | | 3 | | 3 | | 19 |

| | | | | | | | | | | | | | | |
|----|------------------------------|---|---|---|---|---|---|---|---|---|---|---|--------------|------------|
| G | <i>Patelloida pygmaea</i> | | | | | | | | | | | | 2 | 2 |
| P | <i>Sabellidae imbricatus</i> | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 3 | 2 | | 5 | 25 |
| Sp | <i>Siphonosoma sp.</i> | | 1 | 1 | 1 | | | | | 2 | 2 | 1 | 2 | 11 |
| Sp | <i>Sipunculus nudus</i> | | 1 | | 1 | | | | | | | 1 | | 3 |
| | | | | | | | | | | | | | Total | 778 |

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 2021 | | Sampling Zone ST | | High tidal level (2.0 m above C.D.) | | | | | | | | | | | | | | | | | | |
|----------|--------------------------------|------------------|----|-------------------------------------|----|----|----|----|----|----|----|---|---|---|---|---|---|---|---|----|---|-----------|
| Gp | Taxon | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | | Sub-total |
| | | Q | C | Q | C | Q | C | Q | C | Q | C | Q | C | Q | C | Q | C | Q | C | Q | C | |
| Ba | <i>Balanus amphitrite</i> | | | 2 | | | | 3 | | | | | | | | | | | | | | 5 |
| Bi | <i>Barbatia virescens</i> | | | | | 2 | | | | | 1 | | | | 3 | | | | | | | 6 |
| Bi | <i>Brachidontes variabilis</i> | | | | | 3 | | | | 3 | 1 | 6 | 1 | 2 | 2 | | | | | | | 18 |
| Bi | <i>Glaucanome chinensis</i> | | | | | | | | | 7 | 3 | | 5 | 3 | 1 | | | | | | | 19 |
| Bi | <i>Saccostrea cucullata</i> | 37 | 40 | 25 | 25 | 39 | 40 | 24 | 12 | 32 | 37 | | | | | | | | | | | 311 |
| Bi | <i>Xenostrobus atratus</i> | 2 | 4 | | | | | | | | | 3 | | | | | | | | | | 9 |
| C | <i>Gaetice depressus</i> | 1 | 1 | 2 | | | | | | | | | | | | | 1 | | | | | 5 |
| C | <i>Metopograpsus latifrons</i> | 1 | 1 | | 1 | | 1 | 2 | 1 | 2 | 1 | | | | | | 2 | 1 | | | | 10 |
| C | <i>Pagurus dubius</i> | | 1 | | 2 | | 1 | | 1 | | | | | | | | | | | | | 5 |
| Cn | <i>Diadumene lineata</i> | | | | | 1 | | | | | | | | | | | | | | | | 1 |
| G | <i>Batillaria multiformis</i> | 3 | 5 | 10 | 12 | 15 | 11 | 8 | 15 | 8 | 7 | | | | | | | | | | | 94 |
| G | <i>Batillaria zonalis</i> | | | 2 | 3 | | 2 | 3 | 3 | | | | | | | | | | | 3 | | 16 |
| G | <i>Cellana toreuma</i> | 2 | 3 | | 2 | | | | | | | 2 | | | | | | | | | | 9 |
| G | <i>Clithon faba</i> | | | | | | 2 | 1 | | | | | | | | | | | | | | 3 |
| G | <i>Clithon retropictus</i> | 4 | | | 1 | 3 | | | | | | | 1 | 2 | | | | | | | | 11 |
| G | <i>Littoraria articulata</i> | | | | | | | | | | | 2 | | | | | | | | | | 2 |
| G | <i>Lottia dorsuosa</i> | | | 2 | | | | | | | | | | | | | | | | | | 2 |
| G | <i>Lunella coronata</i> | 2 | | 3 | 3 | | | | 1 | 1 | 3 | | | | | | | | | | | 13 |
| G | <i>Lunella granulata</i> | | | 2 | 1 | 5 | 5 | 2 | 2 | 5 | 3 | | | | | | | | | | | 25 |

| | | | | | | | | | | | | | | |
|----|------------------------------|---|----|----|----|---|----|----|----|---|--------------|------------|----|----|
| G | <i>Monodonta labio</i> | 8 | 28 | 18 | 12 | 8 | 10 | 15 | 16 | | 13 | 128 | | |
| G | <i>Nerita chamaeleon</i> | | 2 | 3 | | 2 | | | | | | 7 | | |
| G | <i>Nerita polita</i> | | | | | 1 | | | 2 | | | 3 | | |
| G | <i>Nodilittorina radiata</i> | 8 | 8 | | 9 | | | 2 | 1 | | | 28 | | |
| G | <i>Patelloida pygmaea</i> | 1 | 4 | 1 | | | | 1 | | 1 | | 8 | | |
| G | <i>Pirenella incisa</i> | | 2 | 3 | | | 2 | | | | 1 | 8 | | |
| P | <i>Sabellidae imbricatus</i> | 6 | 3 | | 2 | 1 | 5 | 3 | 3 | | 1 | 2 | 26 | |
| P | <i>Nereididae spp.</i> | | | | | | | | | 1 | | 1 | 2 | |
| Po | <i>Lepidozona spp.</i> | | | | | 2 | | | | | | 1 | 3 | |
| Sp | <i>Sipunculus nudus</i> | | 1 | | | | | | | | 1 | | 2 | |
| Sp | <i>Siphonosoma sp.</i> | | 1 | | 2 | 2 | | | 1 | 1 | 1 | 1 | 1 | 10 |
| | | | | | | | | | | | Total | 789 | | |

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 2021 Sampling Zone ST | | Mid tidal level (1.5 m above C.D.) | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--------------------------------|------------------------------------|---|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|---|-----------|
| Gp | Taxon | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | | Sub-total |
| | | Q | C | Q | C | Q | C | Q | C | Q | C | Q | C | Q | C | Q | C | Q | C | Q | C | |
| Bi | <i>Barbatia virescens</i> | | | 3 | | | | 6 | | 1 | | | | 5 | | 2 | | 3 | | 3 | | 23 |
| Bi | <i>Glaucanome chinensis</i> | | | | | 3 | | | | 2 | | | | | | 1 | | | | 2 | | 8 |
| Bi | <i>Brachidontes variabilis</i> | | | | | | | | | 6 | | | | 5 | | 10 | | 8 | | 2 | | 31 |
| Bi | <i>Saccostrea cucullata</i> | 21 | | 30 | | 48 | | 38 | | 25 | | 45 | | 34 | | 15 | | 30 | | 38 | | 324 |
| Bi | <i>Xenostrobus atratus</i> | | | | | 8 | | 12 | | | | | | | | 2 | | 8 | | 2 | | 32 |
| C | <i>Gaetice depressus</i> | | | | | 3 | | 2 | | | | | | 2 | | | | | | | | 7 |
| C | <i>Metopograpsus latifrons</i> | 1 | | | | 2 | | | | 1 | | | | 1 | | 2 | | 2 | | | | 9 |
| C | <i>Pagurus dubius</i> | | | | | | | | | | | | | 2 | | | | | | | | 2 |
| G | <i>Batillaria multiformis</i> | 23 | | 21 | | 2 | | 7 | | | | 3 | | | | 17 | | 5 | | 9 | | 87 |
| G | <i>Batillaria zonalis</i> | 10 | | 3 | | 7 | | 8 | | 1 | | 2 | | | | 8 | | 6 | | 12 | | 57 |
| G | <i>Clithon faba</i> | 1 | | 2 | | | | | | 2 | | | | | | 1 | | | | | | 6 |
| G | <i>Clithon oualaniense</i> | | | | | | | | | | | | | 3 | | | | 1 | | 2 | | 6 |
| G | <i>Clithon retropictus</i> | | | | | 1 | | | | | | | | | | 2 | | | | 1 | | 4 |
| G | <i>Littoraria articulata</i> | | | 7 | | 2 | | 5 | | | | | | 2 | | 2 | | 8 | | 8 | | 34 |
| G | <i>Lottia dorsuosa</i> | | | | | | | | | | | | | | | | | | | 1 | | 1 |
| G | <i>Lunella coronata</i> | | | | | 2 | | 2 | | 4 | | 7 | | 7 | | 4 | | 2 | | 5 | | 33 |
| G | <i>Lunella granulata</i> | | | | | 2 | | 3 | | 4 | | | | 9 | | 5 | | 2 | | 3 | | 28 |
| G | <i>Monodonta labio</i> | | | 17 | | 18 | | 25 | | 15 | | 10 | | 35 | | 10 | | 15 | | 39 | | 184 |
| G | <i>Nerita chamaeleon</i> | | | | | | | | | | | | | | | | | | | 3 | | 3 |

| | | | | | | | | | | | | | |
|----|------------------------------|---|---|---|---|---|---|---|---|---|--------------|------------|----|
| G | <i>Nerita lineata</i> | 1 | 1 | | | | | | 2 | | | 4 | |
| G | <i>Nerita squamulata</i> | 2 | 2 | 1 | | 2 | | 3 | | | | 10 | |
| G | <i>Nipponacmea concinna</i> | | 1 | 1 | 3 | | | 2 | 5 | | | 12 | |
| G | <i>Nodilittorina radiata</i> | | 1 | 3 | | | | 5 | | | | 9 | |
| G | <i>Patelloida pygmaea</i> | | | | 1 | 1 | 1 | | 3 | | 3 | 9 | |
| G | <i>Pirenella incisa</i> | 3 | | | | | | | 1 | | | 4 | |
| Ne | <i>Nemertea spp.</i> | 5 | | 1 | | | | 2 | | | 2 | 10 | |
| P | <i>Sabellidae imbricatus</i> | 2 | | 1 | 1 | 3 | 1 | 2 | 3 | | 2 | 3 | 18 |
| Po | <i>Lepidozona spp.</i> | | | | | | 1 | 2 | 2 | | 2 | 7 | |
| Sp | <i>Siphonosoma sp.</i> | | 1 | | | | | 1 | 1 | 1 | 1 | 1 | 6 |
| Sp | <i>Sipunculus nudus</i> | | | 1 | 1 | 1 | | | | 2 | | 5 | |
| | | | | | | | | | | | Total | 973 | |

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

| Sep 2021 Sampling Zone ST | | Low tidal level (0.5 m above C.D.) | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------------------------------|------------------------------------|----|----|----|----|----|----|----|----|----|-----|---|---|---|---|---|---|---|----|---|-----------|
| Gp | Taxon | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | | Sub-total |
| | | Q | C | Q | C | Q | C | Q | C | Q | C | Q | C | Q | C | Q | C | Q | C | Q | C | |
| Ba | <i>Balanus amphitrite</i> | 2 | | | | 2 | | 2 | | 1 | | | | | 1 | | | | 3 | | 1 | 12 |
| Bi | <i>Anomalocardia squamosa</i> | | | | | 1 | | | | | | | | 1 | | | | | 1 | | 1 | 4 |
| Bi | <i>Barbatia virescens</i> | | | | | 2 | | | | | | 3 | 2 | | | | | 2 | | | | 9 |
| Bi | <i>Brachidontes variabilis</i> | | | | | | | | | | | | | | | 3 | | | | | 1 | 4 |
| Bi | <i>Glauconome chinensis</i> | | | | | 1 | | | | 2 | | | | | | | | | | | | 3 |
| Bi | <i>Saccostrea cucullata</i> | 12 | 10 | 16 | 10 | 12 | 27 | 18 | 15 | 13 | 25 | 158 | | | | | | | | | | |
| Bi | <i>Xenostrobus atratus</i> | 2 | | 1 | | | | | | 3 | | 5 | 2 | | | | | 8 | | | | 21 |
| C | <i>Gaetice depressus</i> | 2 | 1 | 1 | | | | 2 | | 2 | | | | | | | | | | | | 8 |
| C | <i>Metopograpsus latifrons</i> | | | | | | | 1 | 2 | 3 | | | | | | | | | | | | 6 |
| C | <i>Metopograpsus quadridentatus</i> | | | | | | | | | | | | | | | | | | | | 3 | 3 |
| G | <i>Batillaria multiformis</i> | 2 | 2 | 1 | 2 | 3 | 3 | | | | | | | | | | 6 | 7 | | | | 26 |
| G | <i>Batillaria zonalis</i> | 1 | 1 | | 1 | 3 | 7 | | | | | | | | | | 4 | | | | | 17 |
| G | <i>Clithon faba</i> | 1 | | | | | | | | | | | | | | | | | | | | 1 |
| G | <i>Lottia dorsuosa</i> | 2 | | | | | | 2 | 1 | | | | 2 | | | | | | | | | 7 |
| G | <i>Lunella coronata</i> | 2 | | | | | | 1 | 4 | | | | 2 | | 2 | | | | | | | 11 |
| G | <i>Lunella granulata</i> | | | 3 | | | | 1 | | | | | | 3 | 2 | | | | | | | 9 |
| G | <i>Monodonta labio</i> | 3 | 7 | 2 | 5 | 12 | 15 | 6 | 11 | 11 | 2 | 74 | | | | | | | | | | |
| G | <i>Nerita lineata</i> | | | | | | | | | | | | | | | | | | | | 2 | 2 |
| Ne | <i>Nemertea spp.</i> | | | | | | | | | | | | | 2 | | | | | | | 1 | 3 |

| | | | | | | | | | | | | | |
|----|------------------------------|---|--|---|---|---|---|---|---|---|---|--------------|------------|
| P | <i>Sabellidae imbricatus</i> | 3 | | 3 | 2 | 2 | 3 | | 1 | 2 | 2 | 1 | 19 |
| Po | <i>Lepidozona spp.</i> | | | 2 | | | | | 1 | | | | 3 |
| Sp | <i>Siphonosoma sp.</i> | 1 | | | | | | | | 2 | 1 | | 4 |
| Sp | <i>Sipunculus nudus</i> | 1 | | | | | | 1 | | | | | 2 |
| | | | | | | | | | | | | Total | 406 |

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