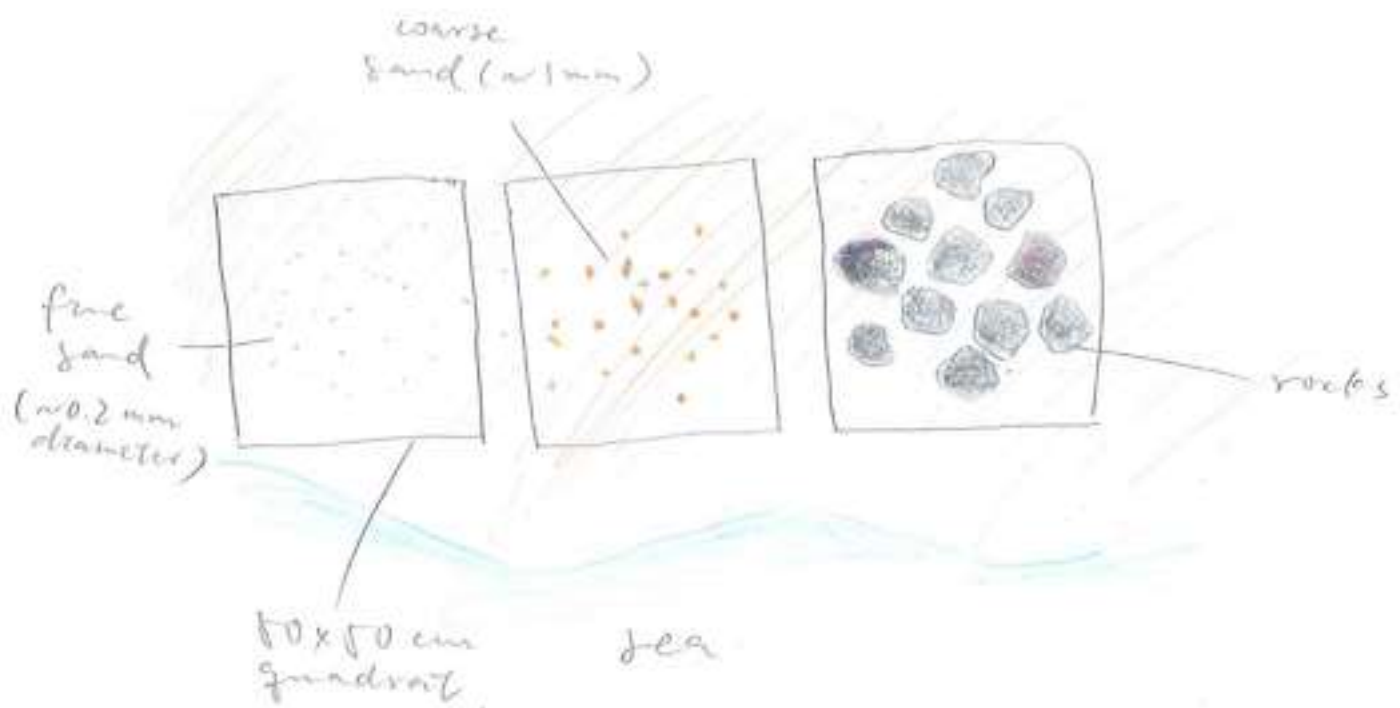
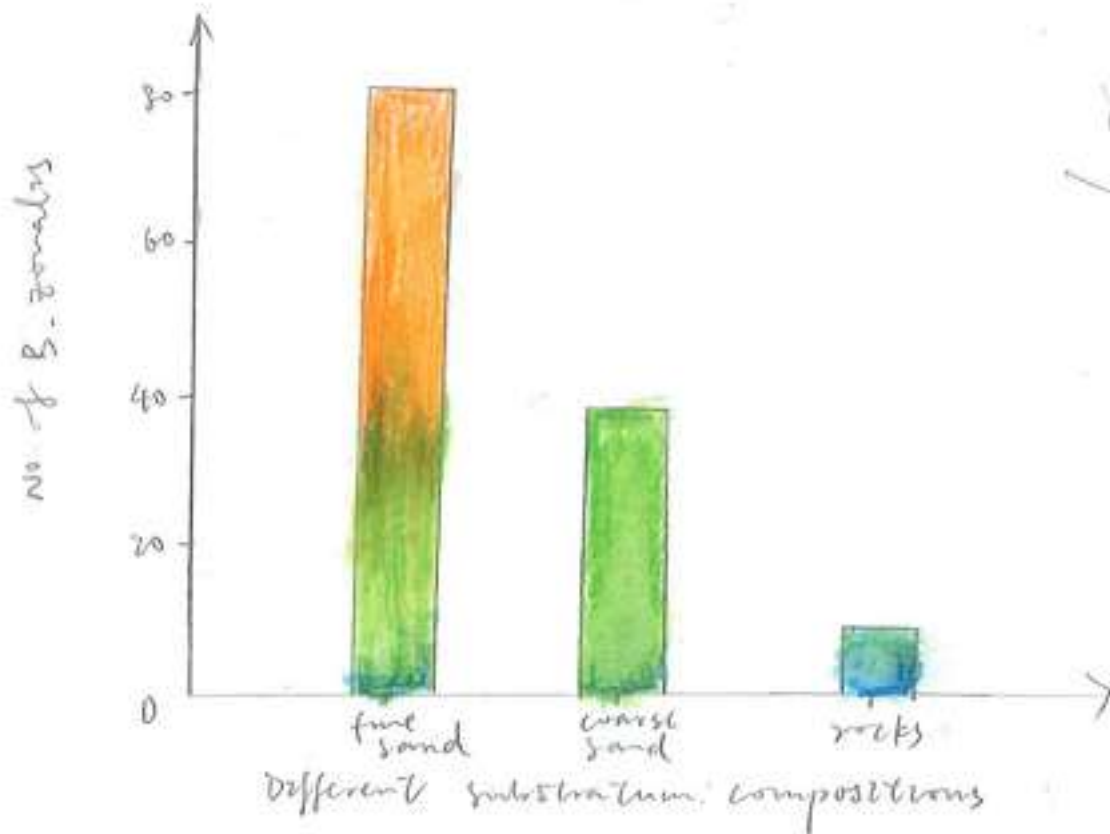


Correlation of different substratum compositions with

Group 1 the density of *Batillaria zonalis*



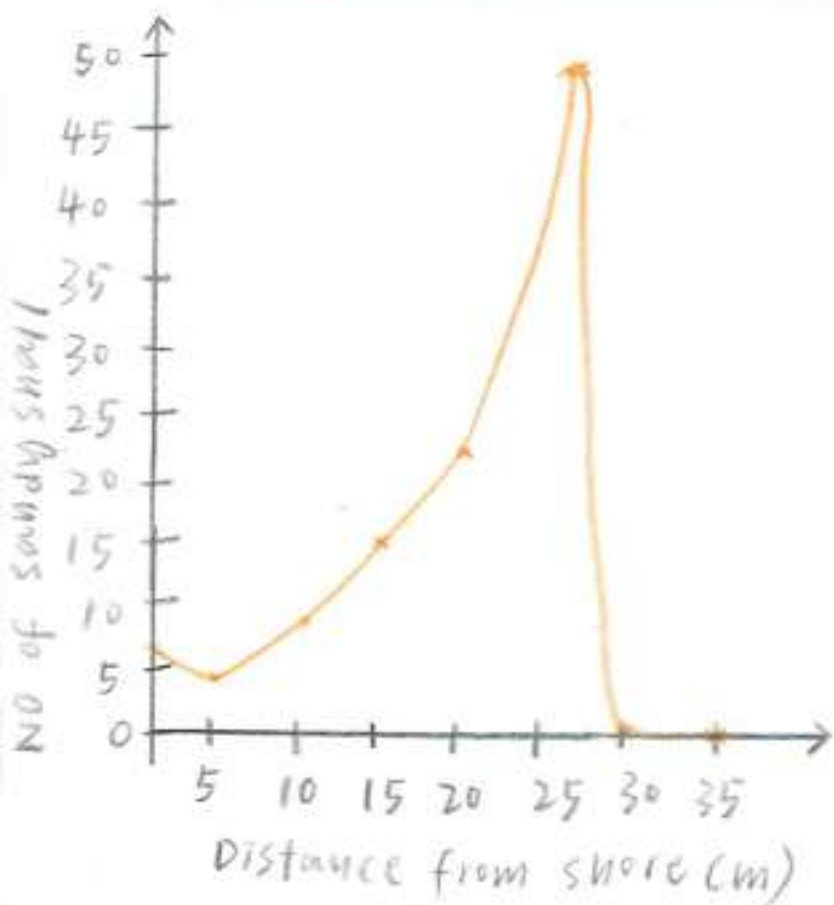
Number of *B. zonalis* in different substratum compositions



Conclusion

The density of *B. zonalis* is the highest in fine sand environment.

Correlation between the distance from shore with density of Sand Snail (*B. zonalis*)

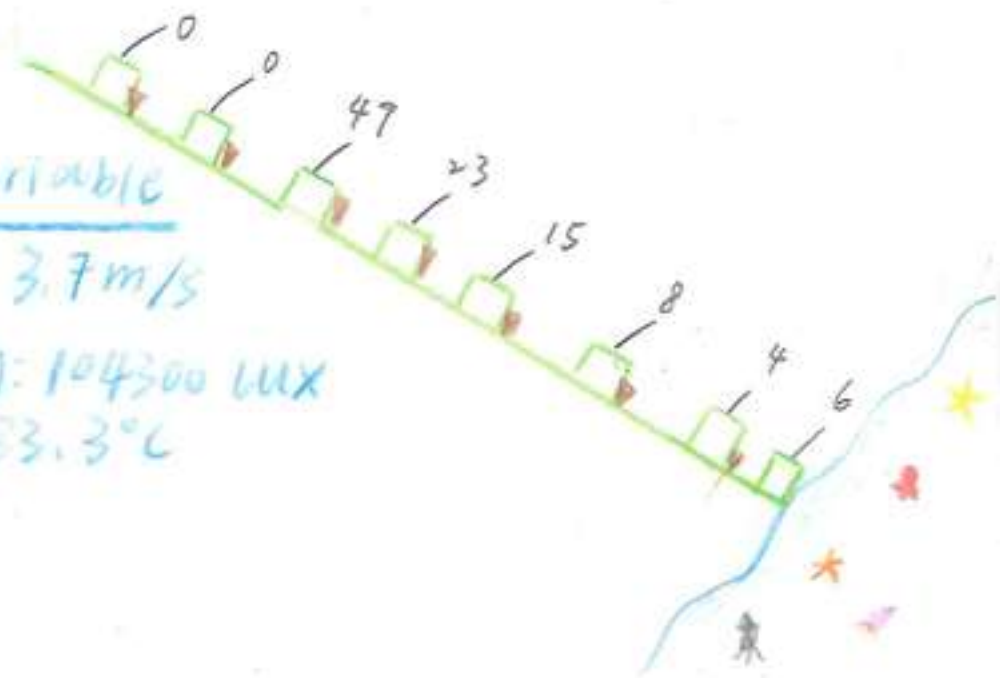


Controlled variable

Wind Speed = 3.7 m/s

Light intensity = 104300 lux

Temperature = 33.3°C



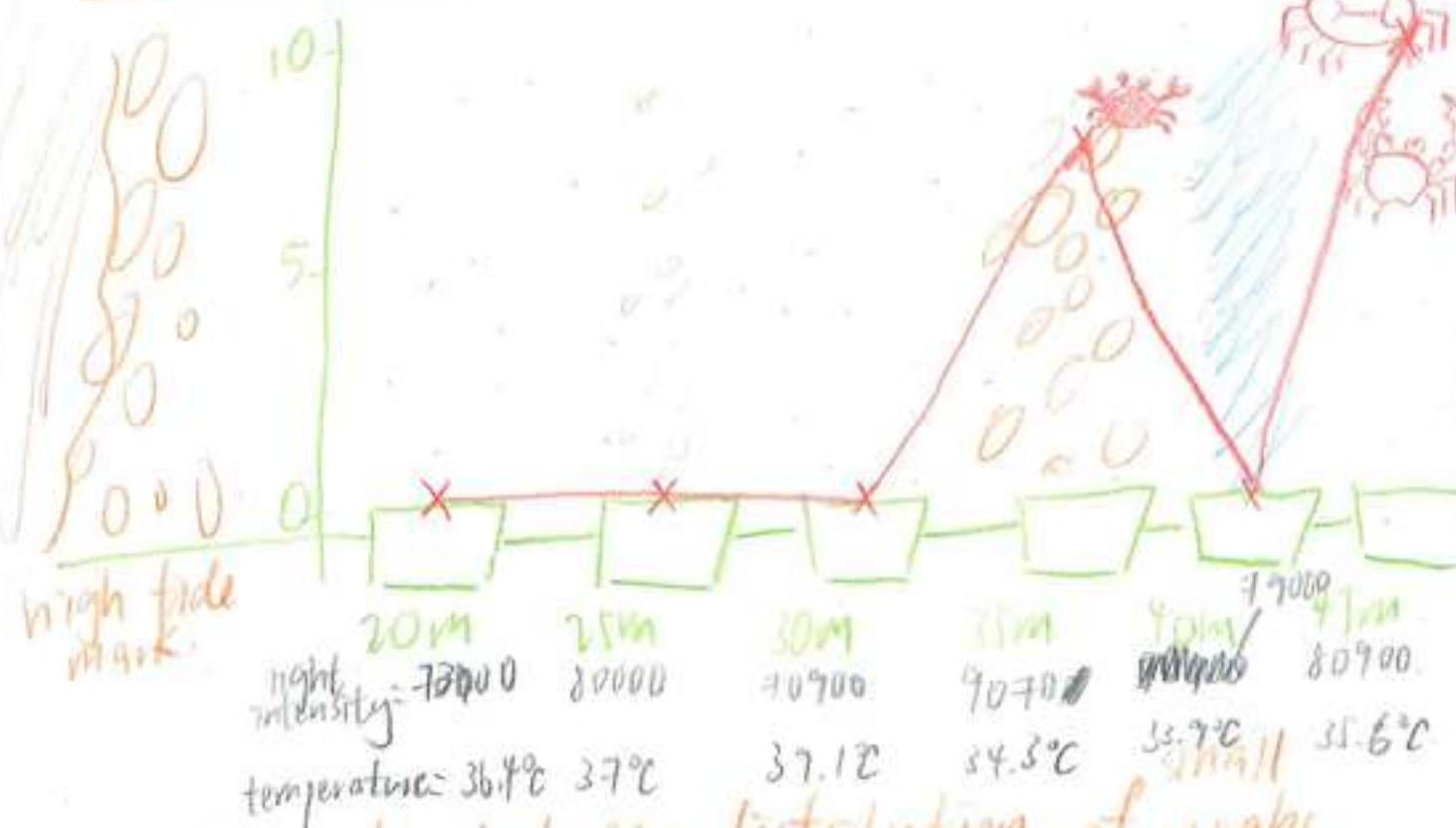
Hypothesis: Shorter distance from the shore, higher abundance of sand snail

Conclusion: From 0m - 25m from shore, abundance of sand snail increases with longer distance

From 30m, absence of sand snail due to inefficient sea water

- increasing no. of crabs towards seashore → ↑ organism → nutrients & ↑ water → prevent dehydration.
- 40m → a lot of water & small rocks → big crab X hide under rocks
- towards seashore → ↑ temp → crabs adapt to env more easily under rocks

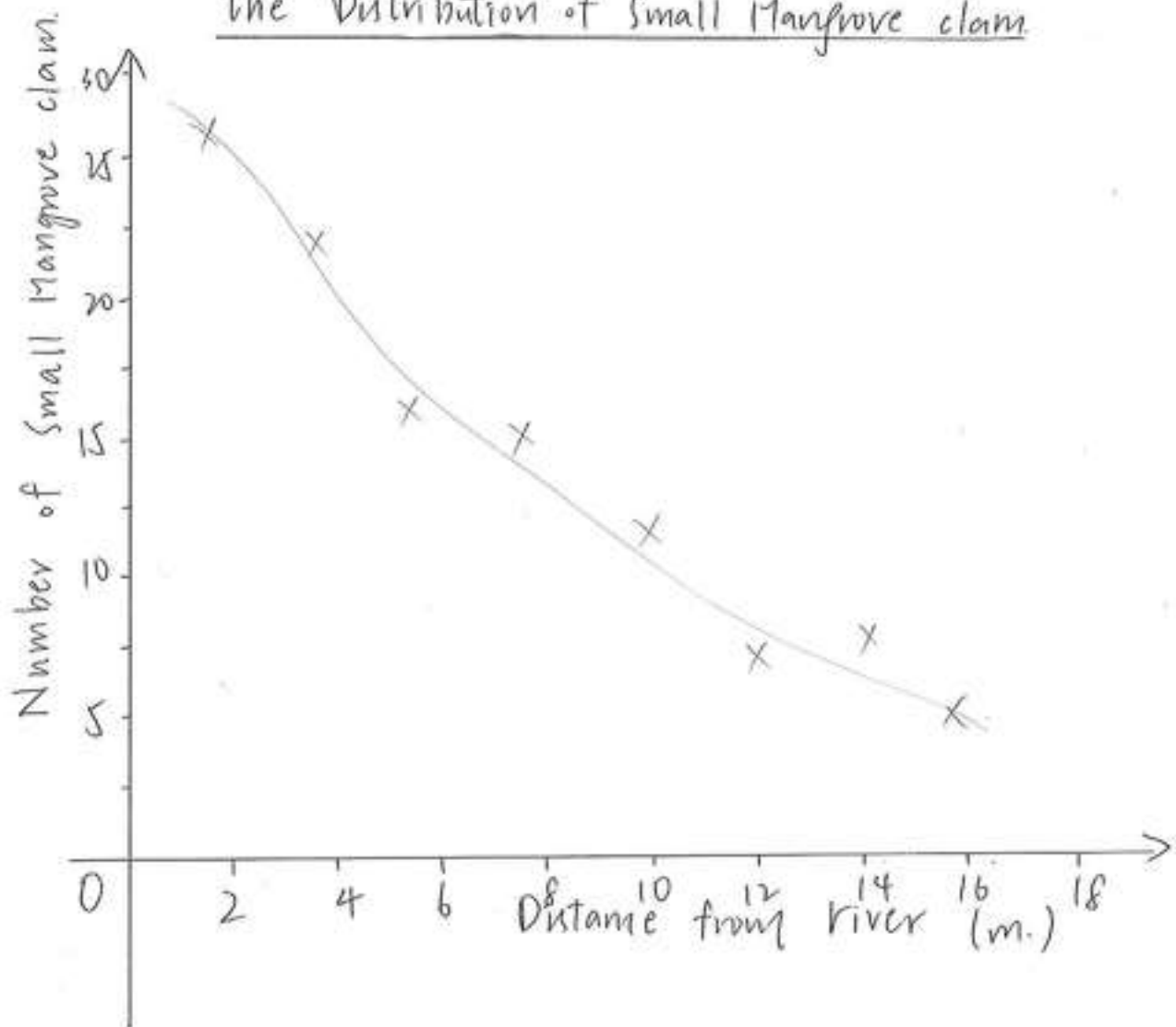
Relationship between distribution of crabs and distance from high tide mark.



Relationship between distribution of crabs inside hole and distance from high tide mark.



Correlation of Distance from river with
the Distribution of Small Mangrove clam.



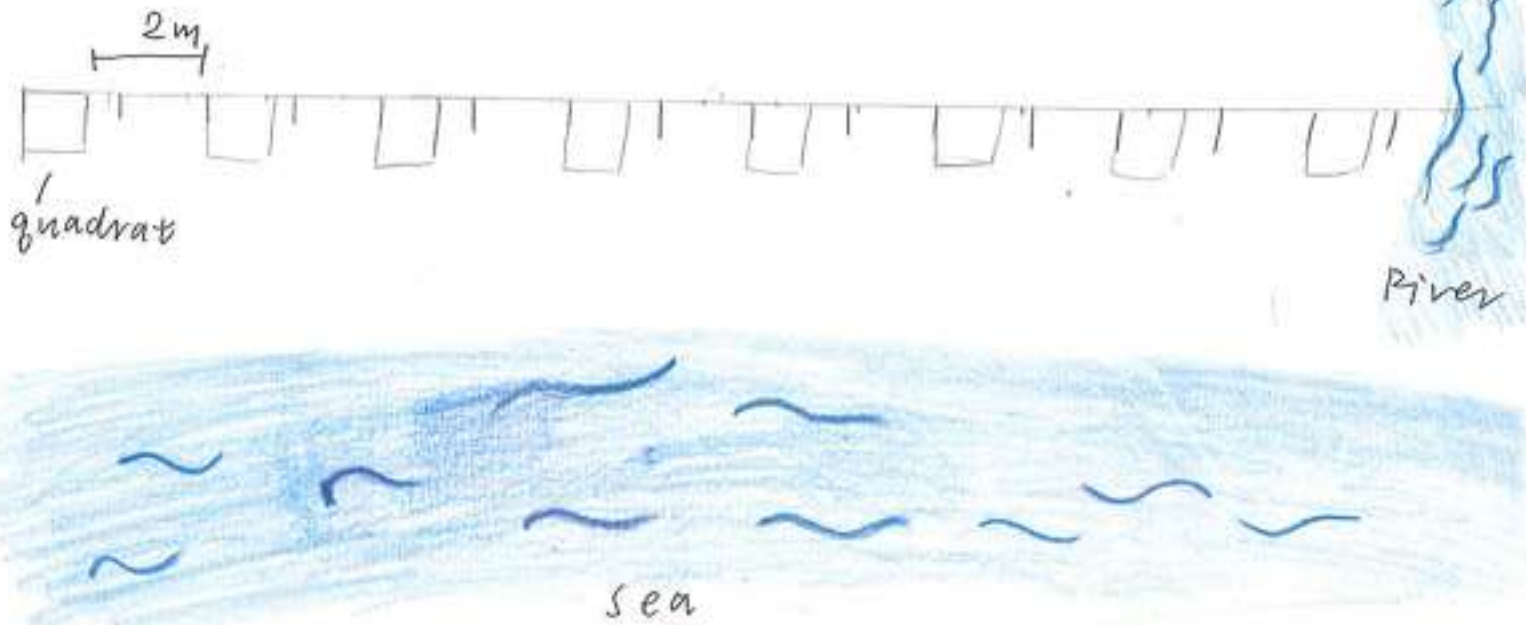
Interpretation of graph

- ① The closer to the river, the larger amount of small mangrove clams are found.
- ② It may be due to the higher salinity in river, (as presence of sea water increase the salinity of lower course of river).
 \uparrow salinity \rightarrow \uparrow food available \rightarrow \uparrow population.

Conclusion

- There is correlation.
The further from river, the less amount of Small Mangrove clams are found.

Correlation of distance from river
with the distribution of small Mangrove clam



Introduction

Hypothesis

The more closer to the river, the larger number of small mangrove clam is found, due to its high salinity

Assumption

The number of small Mangrove clam found in the quadrat is proportional to the whole distribution

Procedure

- ① To keep other factors constant, measure 0 m from the river and put the quadrat with 2m interval.
- ② Dig 10 cm of the sand. Count the number of small mangrove clam enclosed in the quadrat in 1 min
- ③ Record the result
- ④ Repeat step 1 - 3 for the 2nd to 8th quadrat.