

# Methods

## Methods

We have a ventless trap at Pujit Harbor. We are collecting data about what lives on the ocean floor. We spread a tarp on the float and then someone puts the trap on the tarp and drops the crabs on to it. We take a sample of 25 crabs to measure the size and see if they are a males or females. Then we count the rest and we throw them back.

We used a Secchi disk to see the water depth. Then we go to the end of the float and we lowered it to the bottom. We also use the Secchi disk to measure the visibility of the water. We had a Secchi disk to the water so you can not see it. Then you pull it up just until you can see it. In order to tell the visibility is in the water. Then you read the measurement on the string.

We check the temperature of the water. We check it with a thermometer. We throw the thermometer in the water then we let it set in the water for a minute. Then we see what the temperature is.

Germaniumum32



## Methods

The Secchi disk is used for a lot of things. We make water measurements with it. The Secchi disk is round with a length of 25 cm across and has a black and white pattern. The pattern is used for the visibility gauge of the water.

To get the temperature of the water we use a thermometer. The thermometer is attached to a float and has metal on the bottom so it sinks one meter. Its name makes sense because instead of sinking all the way down it can float. Like the Secchi disk it is attached to a string so we can pull it back onto the dock. After we pull the float back on to the dock we then check the temperature and record it.

The trap is one of the most important things we used. We hauled it every three or four days. The most crabs we got was 190 and the least we got was 15. In case you do not know the trap has a rope like the Secchi disk and thermometer. It has a buoy so we know were it is and so we can get it up on to the dock. We used four herring for bait to make it a fair test. We used a tarp to put the crabs on and had people hold the tarp up so the rock crabs and green crabs did not run away.

Titanium22

## Methods

We count the crabs in the trap. We take a random sample of 25 green crabs because it takes too long to measure all of the crabs. We find out if they are male or female. We also measure the size of the carapace. When we measure the crabs we measure them from lateral spine to lateral spine. We have a picture that shows a male and female green crab and it has them labeled. We use it to help us decide if it is a male or female. We record it on a sheet. My favorite job is measuring.

We take pictures of crabs and people. We take pictures of crabs to submit to Vital Signs. We take up close pictures to show the different parts like spines, antennae, and antennules. The details in these pictures are evidence of what types of species we caught.

We find the water depth and water clarity with the Secchi disk. The range of water depth has been 2.5 to 5 meters. To find the water depth we lower the Secchi disk until it hits the bottom. The string attached to it is marked in meters. To get the water clarity we pull up the Secchi disk until we can see the black and white pattern on the disc. Then we find how deep it is. We went at different times so the water depth was different most times.

Bismuth83

## Methods

When we checked the trap we took the water temperature. The thermometer was attached to a float. The thermometer had a weight so it could stay at one meter depth. The water temperature fell during October. It went down 12 degrees because it is almost winter.

We had to use bait in the trap. We had to use a certain amount of bait or it would not be a fair test. We had to use four medium size herring each time. It would not be fair if we stuffed the bait bag full because we wanted to use the same number of herring each time in order to follow the protocol.

I helped my dad build the trap. It had to be smaller than a regular trap to be a fair test. First we had to get a big trap. Then we had to cut the middle of the trap out. Then we used hog rings to put it back together. In addition I cut the door and put it back on. Everybody in the study had to use the same size trap in order for it to be a fair test.

Copper29

