



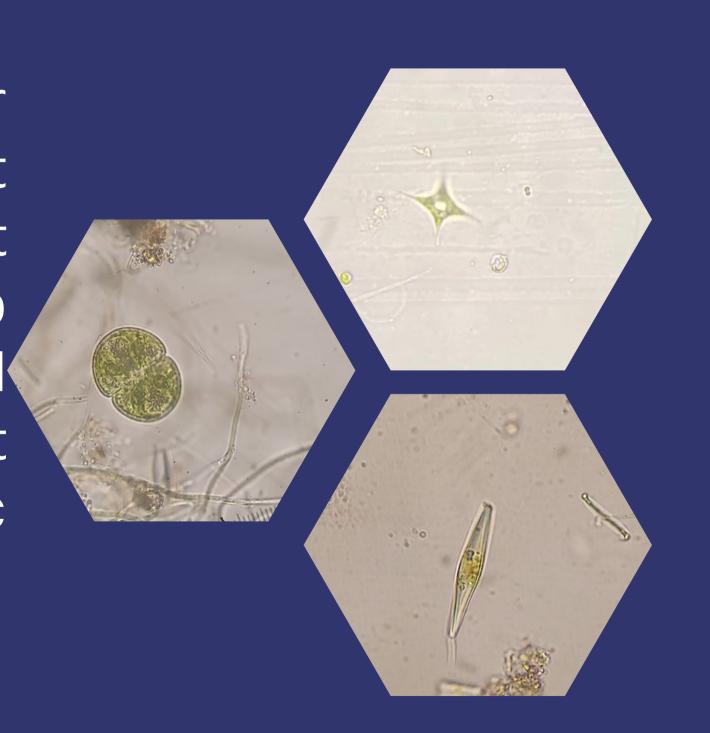


Diversity of plankton biodiversity from the Khapang Surin lagoon Trang.



Introduction

Plankton are the organisms found in water and they are unable to propel themselves against a current. As well, they are very small that cannot be seen by eyes only. Plankton are divided into two groups namely Phytoplankton and Zooplankton. The both groups play an important role in being a food source for other aquatic animals.

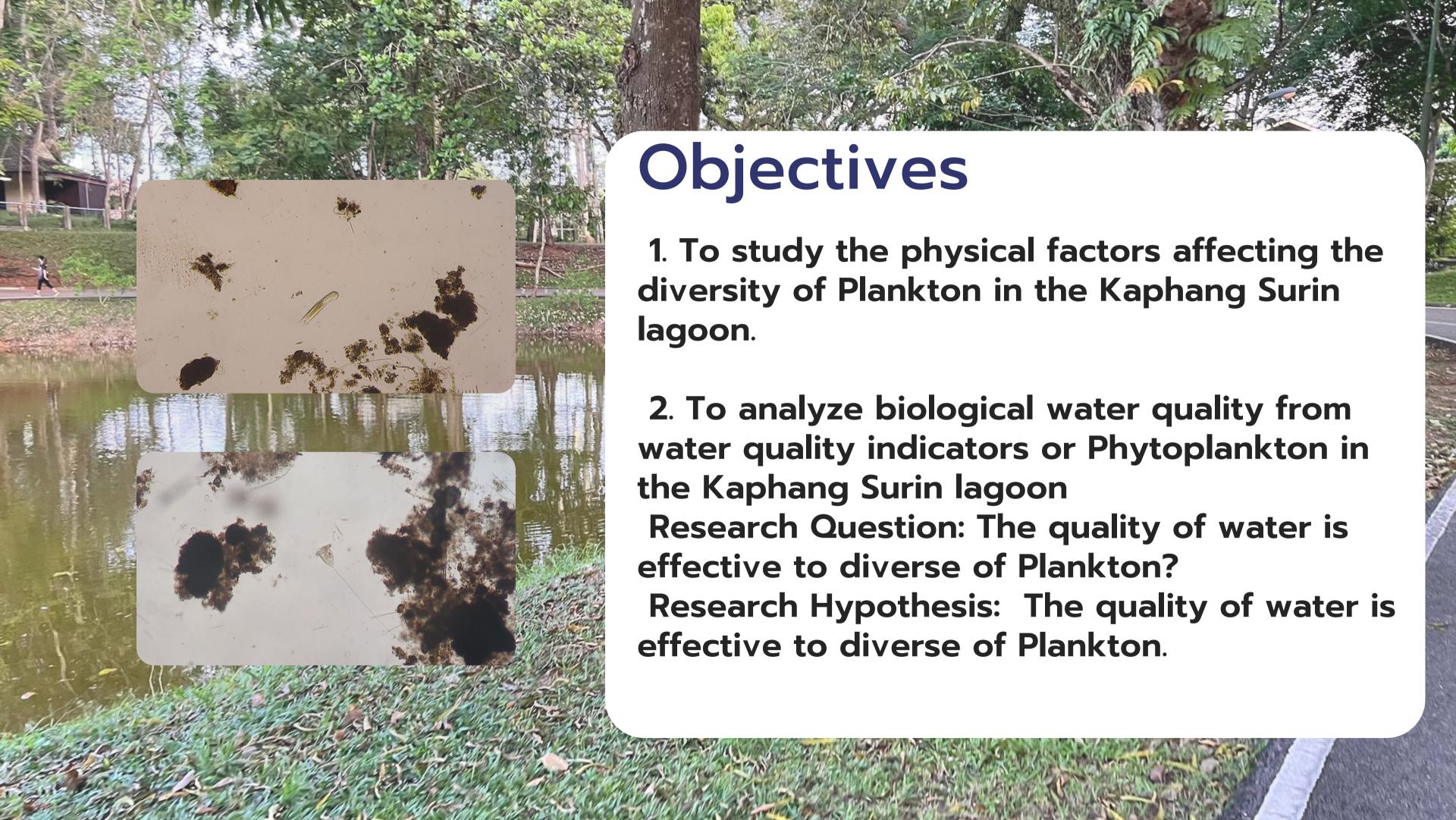


Determinate of education piont

Set the distance are straight about 50 m. Along the line of poolside, collect 3 points along the way that set, Using Geographic Coordinates from application. Around of Kaphang Surin Public Park, Thaptiang, Muang District, Trang Province 92000

711173 m el 5250





Equipment

4-5 liter water tank
Bottle 250 ml
Secchi disk
Microscope
Litmus paper
Thermometer
Tape measure

Slide Slide cover

Dropper

Coordinate measuringmachine

Plankton Net

Dissolved Oxygen





Protocols

Secchi disk

Principle of Hydrosphere inspection methods

Thermometer8

Plankton Net

Dissolved Oxygen

Litmus paper

Study average acid-bass pH Value, Water Temperature, Dissolved Oxygen (DO), Water Turbidity

The first fix an issue to choose the topic want to study then determine the objective to study and determine the sampling area to study. Next, Determine the area to collect the samples water. Then collect the samples water around the lagoon side 3 points, 3 times each by using Plankton net and bottles. Next, Measuring the pH value of water by pH meter and Measuring Turbidity value of water by using Secchi disk. Then Reading and Reporting.

Protocols

Principle of Atmosphere inspection methods.

Study Amount of Clouds cover in the sky

Measuring cloud cover how many percent of 100 percent that all 3 areas and found amount of Clouds cover in the sky

Protocols

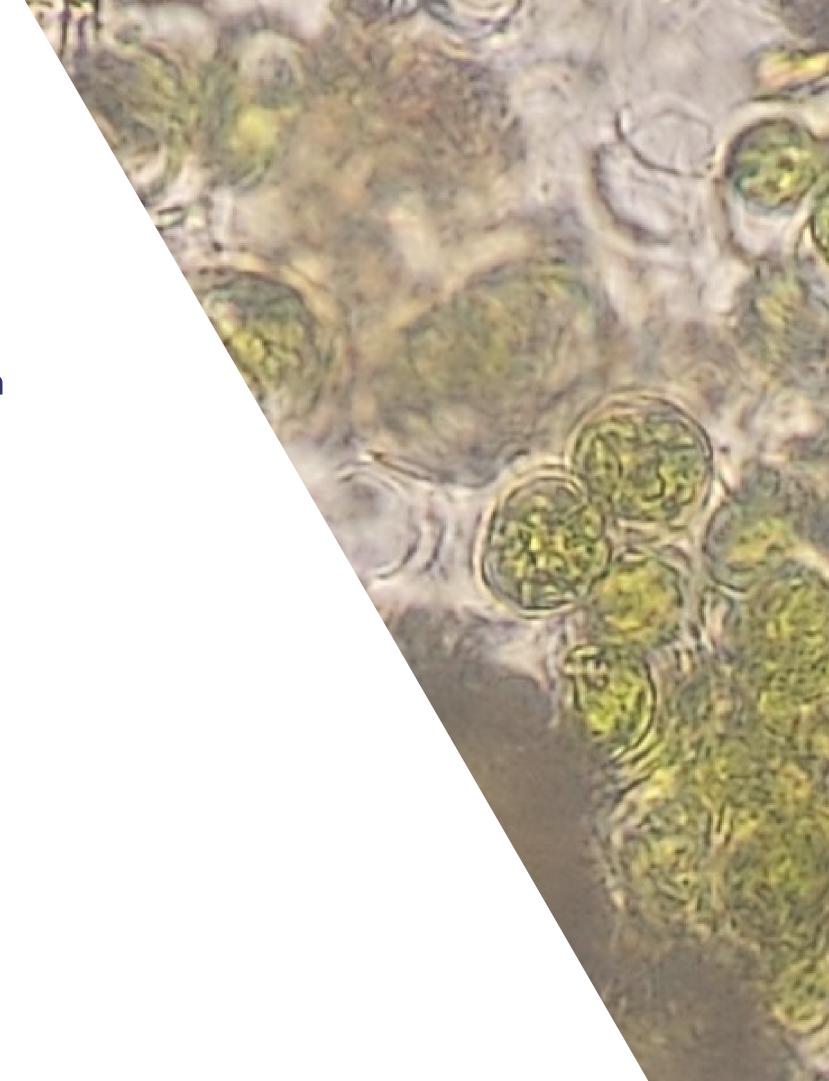
Principle of Biosphere inspection methods.

Study species of plankton, Plankton biodiversity index, Applied Algal Research Laboratory-Phytoplankton (AARL-PP) score, Phytoplankton density.

Collect the samples water for research species Phytoplankton by microscope. And found biological water quality from Phytoplankton in the lagoon by calculate Applied Algal Research Laboratory-Phytoplankton (AARL-PP) score and Plankton biodiversity index.

Geographic Coordinates Study at Sa Kaphang Surin park Tambol Thaptiang amphue Muang, Trang 92000.

Zone	Geographic Coordinates			
	Latitude (N)	Longitude (E)		
Sa <u>Kaphang Surin</u>	7.572666	99.624598		



analyze Physical water quality.

Туре	Area1	Area2	Area3	Average (\overline{X}) ±S.D.
pH value	7.00	7.00	7.00	7.00±0.00
Temperature (°C)	29.50	30.50	30.00	30.00±0.50
Turbidity value (m.)	0.32	0.30	0.30	0.30±1.00
Dissolved Oxygen (DO)	10.25	11	10.25	10.50±0.43

cloud cover analysis.

Type	The first	The second	The third	Average (\overline{X}) ±S.D.	
Cirrus	10%	15%	13%	12.67±2.52	
Cirrocumulus	10%	8%	17%	11.67±473	

shows the number of Phytoplankton.

T	Quality(cell)			Tatal
Type	Area1	Area2	Area3	Total
Navicula spp.	5	7	5	17
Cosmarium sp.	0	2	0	2
Scenedesmus spp.	2	1	1	4
Oscillatoria sp.	3	5	2	10
Microcystis sp.	1	1	0	2
Planktolyngbya sp.	0	0	1	1
Aphanocapsa spp.	2	0	0	2
Pseudanabaena sp.	2	2	3	7
Tetraedron spp.	1	3	1	5
Chlorella sp.	0	2	1	3
Cymbella sp.	2	3	1	6
Oocystis sp.	1	1	0	2
Pediastrum spp.	0	0	1	1
Trachelomonas spp.	0	1	0	1
Aphanothece sp.	1	0	0	1
				N=64

showing the number of Zooplankton Found one species of Zooplankton, Coleps sp.

Type	Quality(cell)					Total
Type	Area1	Area2	Area3	Total		
Coleps sp.	0	1	0	1		

Conclusion

The research from water source in Kaphang Surin Public Park That was Average acidbass pH value 7, it was medium value, the average Temperature value was 30.00±0.50 (°C), The average water turbidity value was 0.30±1.00 and average Dissolved Oxygen (DO) value was 10.50±0.43. It was found that the water had high oxygen and the clouds were cluster and clearly separated. That found high level cloud 2 types: Cirrus (Ci) and Cirrocumulus (Cc). That found of amount lots of Phytoplankton that found the first dominant feature was Navicula spp. The second was Oscillatoria sp. And the last was Pseudanabaena sp.



By Plankton biodiversity index was 1.03, Applied Algal Research LaboratoryPhytoplankton (AARL-PP) score was 6.267 that was medium quality water to polluted and Phytoplankton density was 80 cell/L, it was found that the water had high of Phytoplankton density. In addition, that was found Protozoa, Ancylostoma ceylanicum, Paramecium aurelia and Cyanobacteria was Vorticella sp. In conclusion, The water quality from Kaphang Surin lagoon has high Diversity of Plankton and medium quality water.

