

Diploma of Secondary Education Geography Field Studies Course



City Weather Study

Version 2.0

Objectives

- 1. To study the geographical environment of Tsing Yi and the relationship bewteen landuse and climate.
- 2. To compare the climatic data of different field sites in Tsing Yi.
- 3. To discuss the utilization of climatic pattern in a city planning.

Equipment List

Items	Quantity	Checked	Returned
1. Base map (Individual)	x1		
2. Clipboard (Individual)	x1		٠
3. Compass (Individual)	x1		٠
4. Colour pencils	x1		ū
5. Digital thermohygrometer	x1		ū
6. Anemometer	x1		ū
7. Light meter	x1		ū
8. Base map (1:20,000)	x1		ū
9. Ruler	x1		٠
10. Barometer	x1	ت ا	٠

Field Work

I. Weather observation

- 1. Base map 7.1 is showing the study area and the location of each field site.
- 2. Each group will be arranged to record the climatic data of one field site.
- 3. Within one hour, measure the temperature, relative humidity, wind speed, wind direction, light intensity and pressure every 5 minutes and record the data in Table 1.1.

II. Visibility

1. By using the base map (1:20,000), compass and ruler, try to measure the visibility of your field site. Locate the farthest visible landmark or building at the base map, then calculate the distance bewteen the landmark and the field site. Record the data in Table 1.2

Data Pro	ocessin	g					Diploma o	of Secondary	Education G	eography, Ci	ty Weather St	tudy, v2.0
Group:						ı	Date: _					
Site: _												
Surrour	nding er	nvironme	ent:									
			Tab	le 1.1 - W	/eather (Observat	ion Red	ord				
Time												
Light intensity (Ix)												
Temp. (°C)												
Relative humidity (%)												
Wind speed (m/s)												
Wind direction												
Air Pressure (hPa)												
			1	Table 1.2	- Visibil	ity Obse	rvation	Record				
Time	e											
Direct	ion											
The fart visib landm	le											

Distance on the map:____cm Map Scale: 1cm to _____ m

Actual Distance: _____ m

Distance

Distance on the map: ____cm
Map Scale: 1cm to ____ m

Actual Distance: _____ m

Data Processing

- 1. Draw appropriate diagrams and graphs to represent the climatic findings that you have recorded.
- 2. Summarize all climatic data of 8 groups.

Discussion

1. Describe and explain the changing characteristic	cs of the climatic elements of your field site.
Group:	Site:

Climatic elements	Characteristics	Reasons
Light Intensity		
Temperature		
Relative humidity		
Wind direction		
Wind speed		
Air pressure		

Discussion

2. Compare and contrast the climatic elements of the field site of your group and another one, explain the data of two field sites.

Climatic elements	Differences between two field sites: and	Reasons
Light Intensity		
Temperature		
Relative humidity		
Wind direction		
Wind speed		
Air pressure		