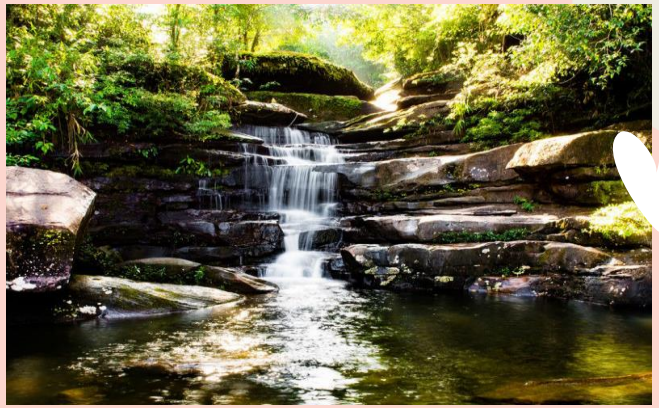
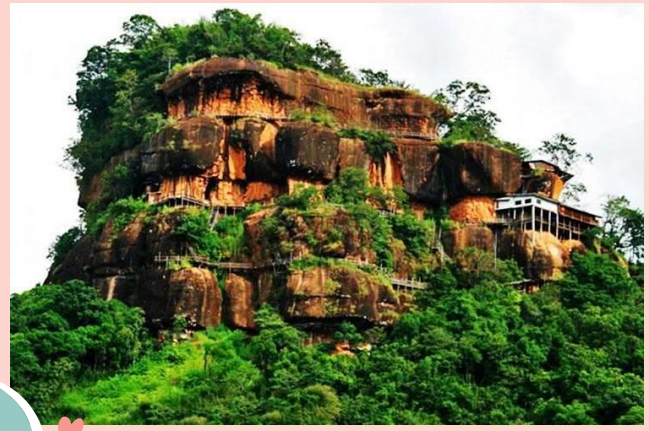
A survey of the relationship between air temperature and the types and density of cloud at the BuengKhongLong Witthayakhom School (BWK).

Origin and importance

Bueng Kan Province is a province located in the upper northeastern part of Thailand. The landscape is plateau rich with mountains, rivers and waterfalls. The climate is influenced by the Mekong River. It is characterized by hot and dry weather.





When in the past there was not Thai Meteorological Department, our country still has no progress in various fields as in the present. With science and technology still not very advanced In ancient times, rural communities were employed in agriculture. But has the ability to predict the weather

Research question : Is temperature related to cloud type and cloud density?

Hypothesis : If each day the air temperature is different, it will find different clouds and different densities.

Research objectives : A survey was conducted to determine the relationship between air temperature and cloud type and cloud density

Terminology definition

- Physical density refers to its relative weight. One unit volume
- temperature refers to the degree of heat and cold of the air And the environment around us

Expected benefits

-Each day can tell the weather in BuengKhongLong District by looking at the clouds properly.

Relevant documents and research

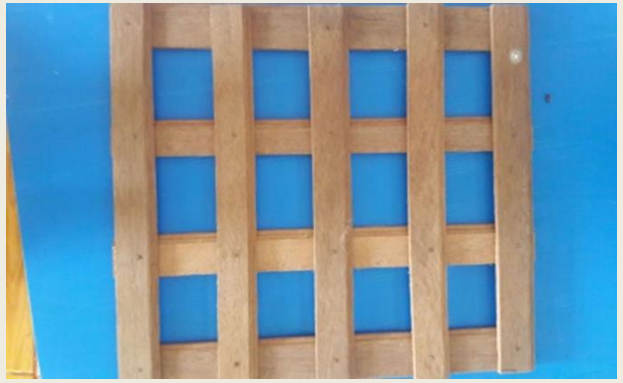
1. Relevant documents about clouds and cloud types.
    1.1 Cloud
        1.1.1 Meaning of the Cloud
        1.1.2 Types and types of clouds
            - divided by shape
            - divided by elevation
2. Documents related to the forecast.

This research is a quantitative research

Population / sample

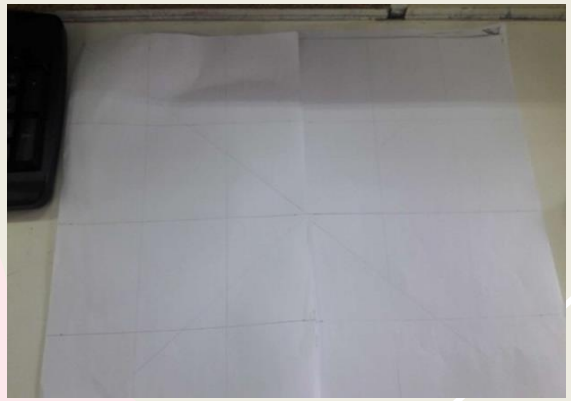
- **Population :** Cloud type research, BuengKhongLong Witthayakhom (BW) School.
- **Sample group :** Kinds of clouds around a school football field BuengKhongLong Witthayakhom.
- Position latitude 17.963879
- Location Longitude 104.047209

Research instruments



square wooden frame

Observation method



square wooden frame model paper

thermometer

Research results by objective To study the relationship between air temperature and cloud type and cloud density by presenting the data in a table respectively, the results were as follows.
Found cloud type and cloud percentage as shown in the table.

D/ M/ Y	Time period	temperature	Cloud type	Cloud density
20/Feb/2020	12:30 p.m. to 1:00 p.m.	27องC	-	0%
21/Feb/2020	12:30 p.m. to 1:00 p.m.	30องC	CirrostratusICs High clouds	100%
22/Feb/2020	12:30 p.m. to 1:00 p.m.	31องC	CirrostratusICs High clouds	100%
23/Feb/2020	12:30 p.m. to 1:00 p.m.	32องC	CirrostratusICs High clouds	100%
24/Feb/2020	12:30 p.m. to 1:00 p.m.	32องC	CirrostratusICs High clouds	100%
25/Feb/2020	12:30 p.m. to 1:00 p.m.	25องC	AltostratusIAs Middle cloud	100%
26/Feb/2020	12:30 p.m. to 1:00 p.m.	35องC	CirrostratusICs High clouds	100%

Discussion

This research is about the relationship between temperature and the types of cloud and cloud density during 12:30 am to 1:00 pm at the Bueng Khong Long Witthayakhom School. This research aim to find the relationship between temperature and the types of cloud and cloud density at Bung Khong longwitthayakhom. The results was shown the types of clouds found on a daily can indicate the weather conditions in each day.

Research findings

From the information in the table above It was found that air temperature influences the formation of clouds. When the air temperature rises, the Cirrostratus(Cs) clouds form a high-class cloud. And when the temperature of the air is lower, it will find the Altostratus (As) cloud, which is the middle cloud. And air temperature had no effect on cloud density.

Suggestion

1. Suggestions for this research
   1.1 Should be surveyed for a longer period of time.
   1.2 Should have more research instruments.
   1.3 More information should be studied.
2. Suggestions for the next research
   2.1. More should be studied about cloud types and their density.
   2.2. Utilization of cloud type and cloud density should be studied in more detail.
   2.3. Should study methods. About cloud types and their density.

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THANK YOU