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Thanks

I'd like to thank my parents, sisters, family, teachers, and friends. Thank you all for your supporters and your advises specially mom and Uncel.Marwan.

From my heart thank you so much.

Introduction:

Every day in our life, we don't know how humidity can impact the formation of clouds and precipitation percentage. We the people of planet earth should learn how humidity can impact our weather.

Abstract

Study of humidity: an increase in humidity lead to from different clouds, a decrease in humidity lead to a clear sky.

The problem:

Can humidity impact the cloud formation?

Purpose of this study:

To learn if humidity can positively or negatively impact clouds formation.

Study curriculum:

Experiment

Changes

The humidity is the constant
Cloud forms are the variables

Study questions:

Our goal is finding the answer: do humidity has an impact on the way of how clouds form and whether it affects the chances of rain?

Importance of study

The impact of humidity in cloud formation.

VOCABULARY:

- Humidity percentage
- Cloud Type
- Cloud Protocol
- Relative Humidity
- Digital Hygrometer

Experiment tools:

- Protocols forms of clouds
- Digital tool to measure humidity
- Paper to write down the measures

- Paper to write down the forms of clouds

Society and sample environment

Intermediate gifted school Jeddah.

Sample:

Humidity percentage – form of cloud.

Humidity and cloud form in the school surroundings.

Hyposis:

As humidity increase, we find different form of clouds.

Procedures:

First: there are many forms of clouds

Second: we should determine relation if any

Third: the sample of study will be within the school

Fourt: Globe measures for humidity

- Measure the humidity
- Finding the form of cloud

STEPS:

First Daily measurements of humidity in the school.

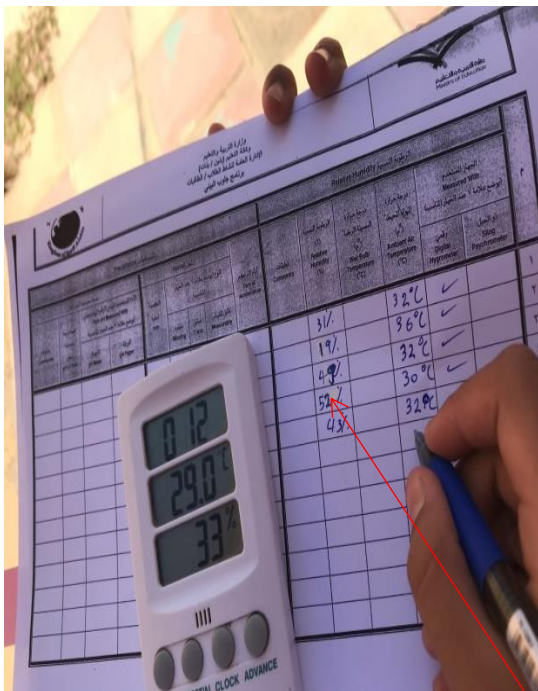
- Using digital hygrometer to measure the humidity.
- 19 readings associated with clouds forms.

Second: Measuring humidity and determining the cloud form.

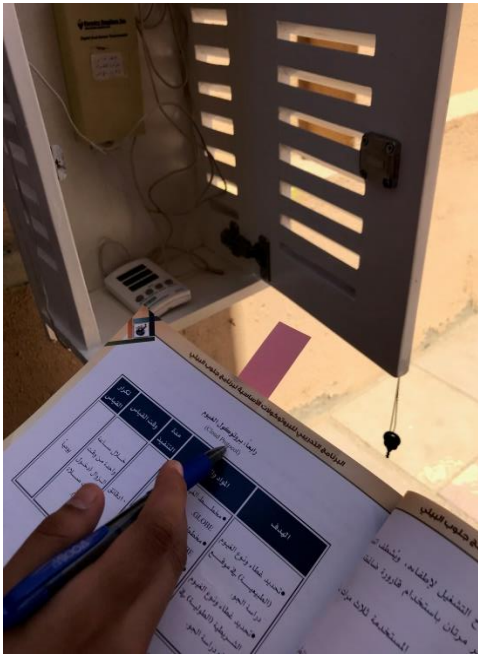
Third: 19 days of continuous reading of humidity and clouds.

Fourth: Build the relationship between humidity and form of clouds

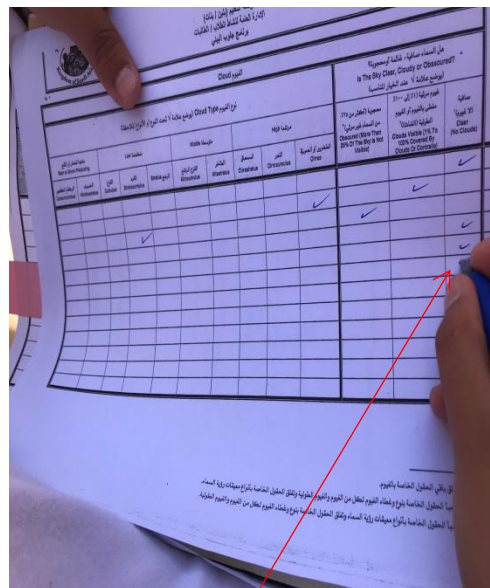
Meansuing humidity



Determining the form of cloud



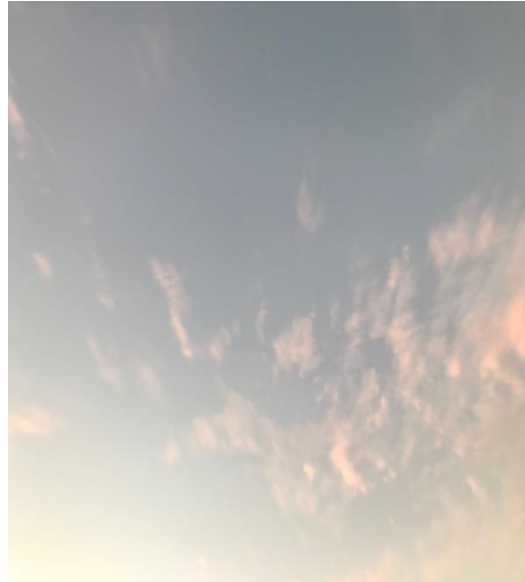
Clear sky with no cloud



Cloud Reading

Cloud formations pictured

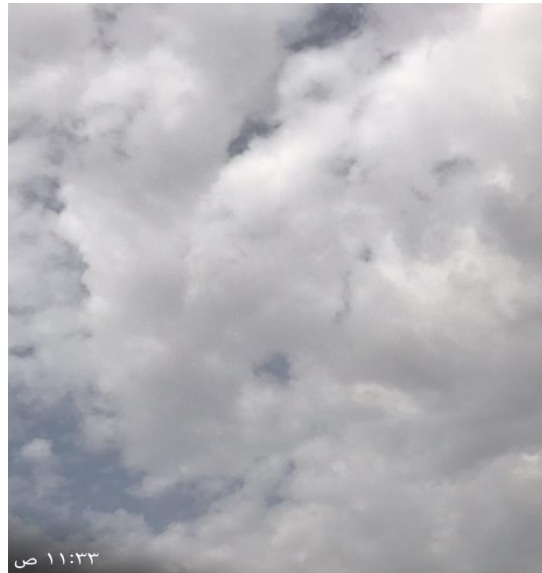
AltoCumuius



Cirrus



Stralocumuiiu



ص ١١:٣٣

Relative Humidity (%)	Cloud Type	Chance of rain	Time	Date
74%	AltoCumuius	34%	06:58	22/2/2018
69%	AltoCumuius	31%	06:13	23/2/2018
32%	Stralocumuiu	15%	11:33	24/2/2018
51%	AltoCumuius	27%	07:17	25/2/2018
64%	Cirrus	30%	06:41	26/2/2018
42%	Clear(No Clouds)	0%	12:09	27/2/2018
40%	Clear(No Clouds)	0%	12:05	28/2/2018
35%	Clear(No Clouds)	0%	12:07	1/3/2018
21%	Clear(No Clouds)	0%	12:11	2/3/2018
29%	Clear(No Clouds)	0%	12:13	3/3/2018
38%	Clear(No Clouds)	0%	12:04	4/3/2018
62%	AltoCumuius	30%	12:09	5/3/2018
31%	Clear(No Clouds)	0%	12:01	6/3/2018
19%	Clear(No Clouds)	0%	12:08	7/3/2018
49%	Stralocumuiu	27%	12:06	8/3/2018

52%	Clear(No Clouds)	0%	12:03	9/3/2018
43%	Clear(No Clouds)	0%	12:05	10/3/2018
33%	Clear(No Clouds)	0%	12:11	11/3/2018

After

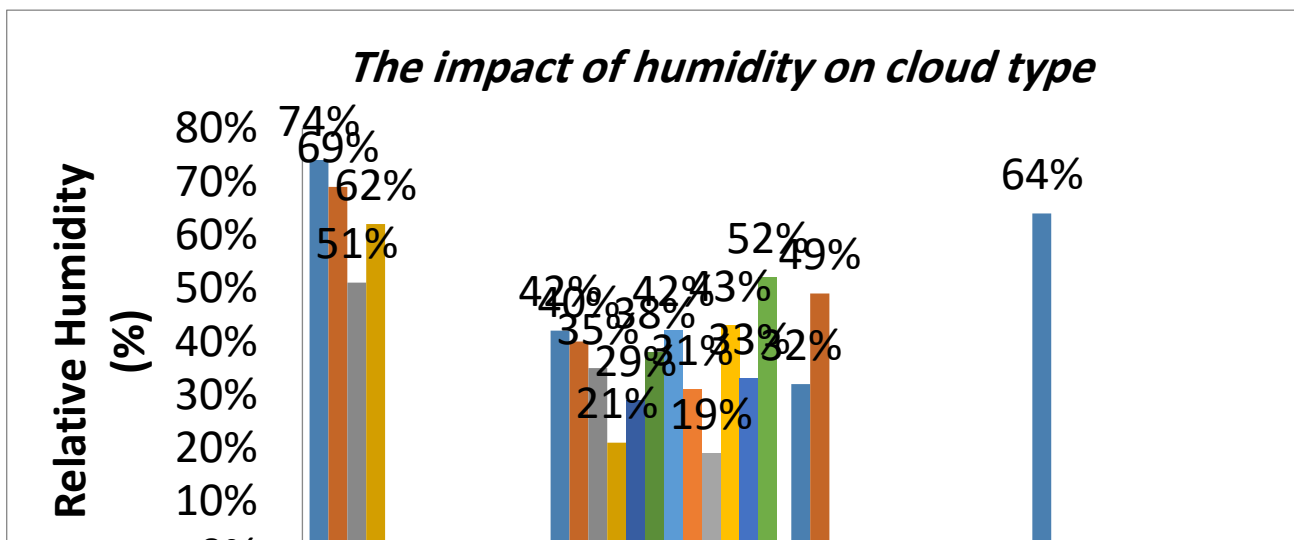
First: Every time I go to the schoolyard I do the measurements with the form of clouds.

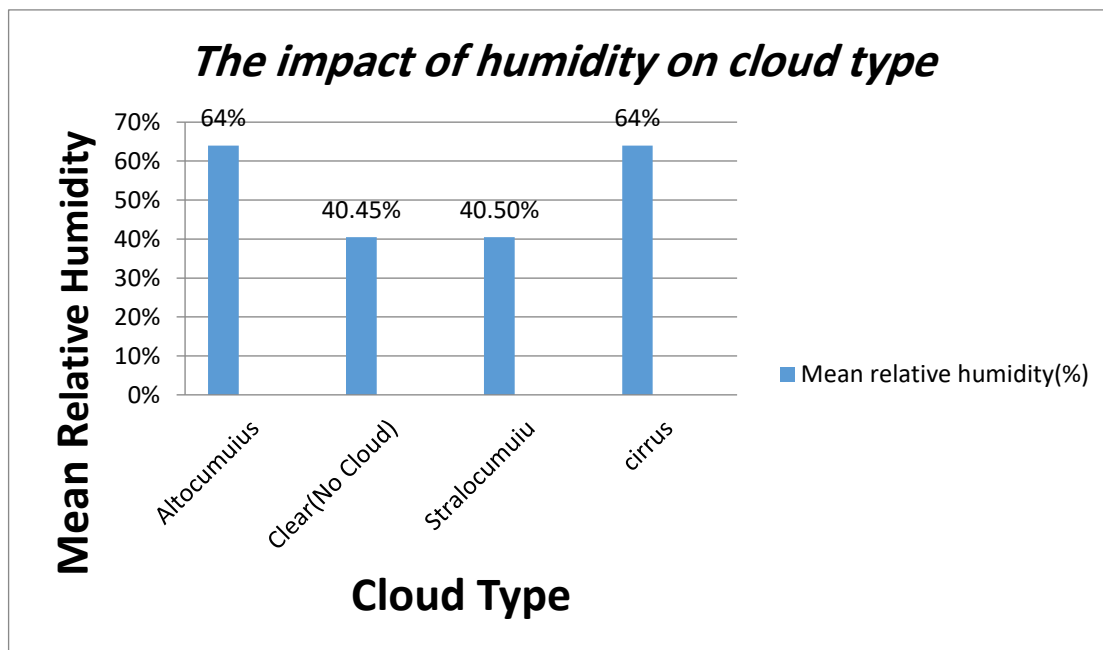
Second: Below reading shows the increase and decrease in humidity can affect the form of clouds:

Third: There are no clouds clear sky, humidity is below 52%, once humidity go beyond that, following forms of clouds are noticed:(Stralocumuiu - Cirrus - Altocumuius).

Fourth :The results and conclusions after the conducting the experiment and readings.

Data Summary





From the previous graph, the form of cloud is altocumulus with average humidity is 64%, the Stralocumulus form of cloud with average humidity 40.50%, the Cirrus form of cloud with average humidity 64% and the clear sky with no form of clouds the humidity average is 40.45%.

Results

- When the humidity range increased between 51% and 74% the form of cloud is Altocumulus with an average of 30% chance of rain.
- When the range of humidity between 32% and 49%, the form of cloud is Stratocumulus and a decrease in rain chances was noticed.
- When humidity hit 64%, the form of cloud in the sky is Cirrus.
- When the sky is clear, the average humidity is below 52%.

Conclusion:

- When humidity is low, we can enjoy clear sky with no clouds at all. By looking at sky, we can determine range of humidity in the weather.

- The humidity has an effective impact on the clouds formation, any increase in humidity can result in different cloud formation.

Bibliography

1. <https://www.timeanddate.com/weather/saudi-arabia/jeddah/historic?month=3&year=2018>

2.

<https://www.accuweather.com/ar/sa/jeddah/299429/month/299429?monyr=2/01/2018>

