CALIFORNIA STATE SCIENCE FAIR
2004 PROJECT SUMMARY

Name(s)
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Project Number
S0603

Project Title
Cloud Formations + Wind Patterns = Weather Predictions

Abstract

Objectives/Goals
The purpose of my project is to determine if a person, such as myself, can forecast the weather by using simple techniques such as observing wind patterns, cloud formations and using simple measuring devices.

Methods/Materials
The materials used in my project were a barometer, scientific journal, camera, pen, thermometer, hygrometer and computer. The computer was used too look up additional barometric pressures on Internet sites. After I set my hygrometer, barometer and thermometer, I recorded the weather patterns and instrument readings for consecutive days. This experiment lasted for two trials.

Results
The results of trial I, which consisted of 12 day, were 55% of my predictions were correct and 45% of my predictions were incorrect. The results of trial II, which lasted for 10 days, were 67% of my predictions were correct and 33% of my predictions were incorrect.

Conclusions/Discussion
In conclusion weather predictions are possible by observing wind patterns and cloud formations. Accurate recordings of winds and clouds and the use of simple instruments can lead to weather forecast. Through this project I found out different clouds, such as stratus, cumulus and cirrus, and recordings of barometric pressures can lead to figuring out the weather of following days to come.

Summary Statement
My project is about investigating if weather prediction is possible by observing cloud formations and wind patterns.

Help Received
My science teacher provided me with the weather station, which is composed of a hygrometer, thermometer and barometer.