Spring 2024 GLOBE Workshop: Atmosphere Changes during the Solar Eclipse in Westerville, Ohio

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Abstract:
Maybel and Vicki took temperature readings throughout the eclipse. They also observed animal behavior. Their findings are documented in the poster.

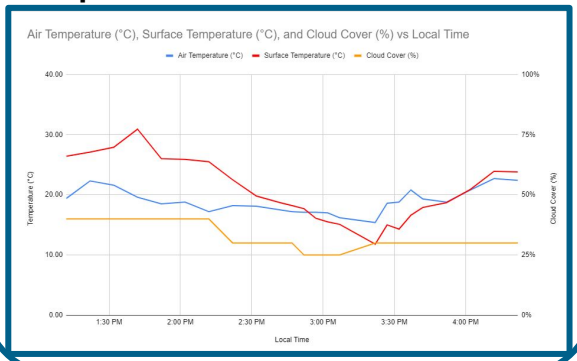
Background Information:
The energy from the Sun warms up our planet. When there are changes in the amount of sunlight we get, there are also changes in the air temperature, clouds, and wind. A total solar eclipse occurs when the Moon blocks the Sun completely, as on April 8, 2024 in North America. This research was conducted in Westerville, OH, which experienced 100% eclipse cover at 3:12 P.M..

Research Question:
How does temperature change during a solar eclipse?

Claim/Hypothesis:
As the Sun gets blocked by the Moon, the temperature will go colder.

Dataset:
Temperature changes in Westerville, Ohio

Evidence/Conclusions:
The eclipse as it was happening changed the temperature of the ground and the air. We took readings and put them into the graph.

Graph:


The Animals:
2:30- The neighbor swans were swimming to their nests.

3:00- The birds stopped singing
The peeper frogs started making noise

3:30- The swans were in their nests asleep

Bibliography/Sources:
The GLOBE Program. *GLOBE Educator One-Week Pacing Guide: Experiencing a Solar Eclipse*.
https://www.globe.gov/documents/18527/37661214/Solar+Eclipses