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2024/12/04



Grey Clouds on a Sunny Day

On December Second, 2024 (Monday), I noticed that the clouds outside my school, Wardlaw Hartridge, were surprisingly grey, even though it was a really clear and sunny day. Once I went outside and looked up, I noticed thick, dark grey clouds that seemingly had water stored in them. However, it had not rained for a couple of days, and was very sunny. I had also noticed that there were some gaps in the massive cloud, causing there to be a smaller “Cut-Off” part in some places. I believe that there are water particles in the clouds, causing it to seem grayer, and as a result, maybe it will rain this weekend

I have a couple of other theories about why the clouds are dark grey on a sunny day, but my strongest hypothesis is that the clouds are too thick to let light pass through, resulting in them seeming dark grey.

After conducting further research amongst multiple sources, I found out that my hypothesis was correct. Clouds do seem darker because of their thickness, and looking at nasa data, northeast USA has a mix of high cloud coverage, and low cloud coverage, making sense that this is the first time I see a cloud like.

After learning the five week Globe program, I believe that the cloud was created by an isolated storm, which caused some thicker clouds, creating those grey clouds on a sunny day

