

Clouds 1 Report

Sam Tamerler

CINE 4200

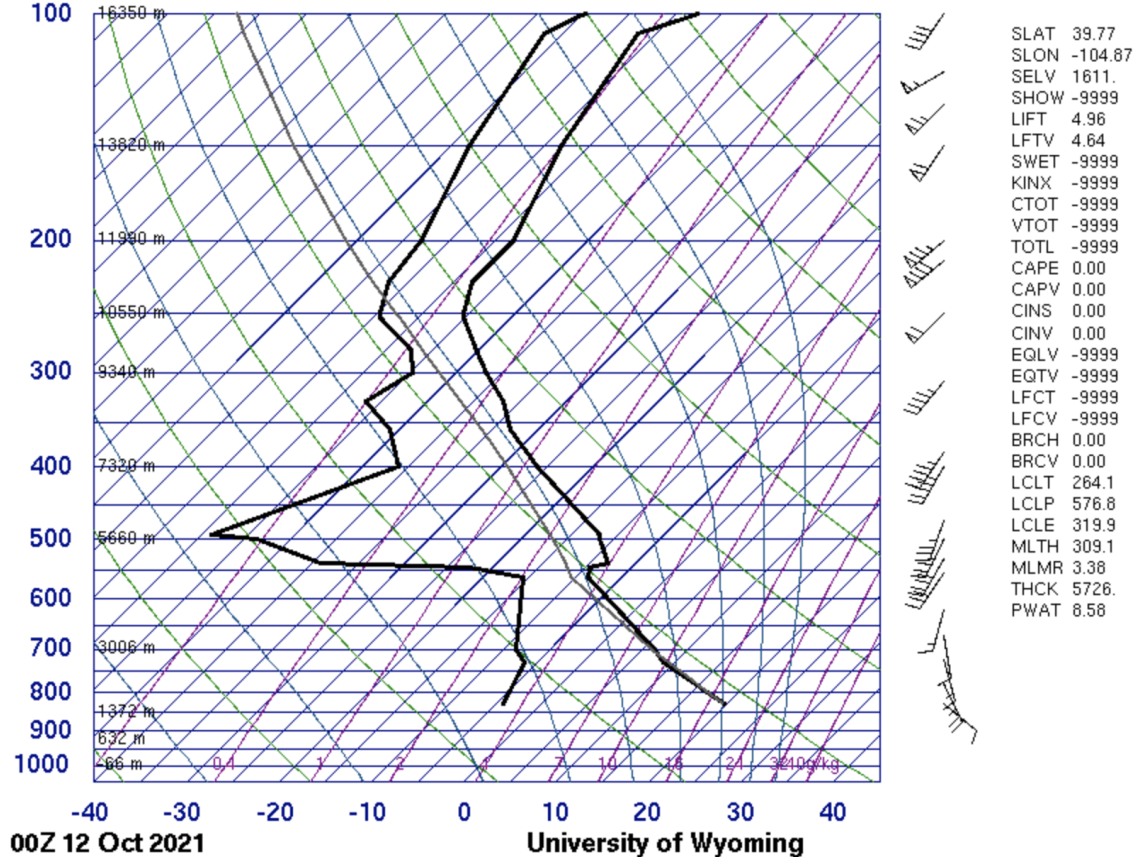
10/25/2021



Introduction

For the first clouds assignment, I hoped to capture an interesting looking cloud throughout my day to day routine. I didn't go on an extensive cloud hunt, but rather kept my eye out for unique looking clouds once I had heard about the assignment. I chose this cloud because I liked the arm like tendrils coming out of it, and how it was sort of dissipating away into the sky. It had a strange shape and didn't look like many of the other clouds that were around it, which is why I chose it. Also, the sun gave some interesting and colorful reflections on the cloud which I thought added to the visual appeal of this cloud. I took this picture on Pearl Street at around 3:45 on October 12.

72469 DNR Denver



Science

The cloud that I observed I believe to be a Stratus Fractus cloud. This type of cloud is described as being ragged and often beneath a heavier cloud layer. I remember on the day that I took this picture being very overcast, but the sky parted to reveal this one raggedy cloud. The outline shape was changing rapidly which is another common characteristic of this type of cloud. From the Skew - T diagram, I learned that the likely elevation of the main cloud layer was around 4,000 meters above the ground. However, the fractus clouds are usually below the main layer, so the elevation of this cloud was probably around only 1,000-2,000 meters above the ground. The CAPE level for this diagram was 0.00, meaning that the air was stable at the time of this capture. From the

flag/wind symbols, we can see that the wind was blowing fairly fast and in the same direction. My prediction was that a small rain storm was moving across the sky at a decent pace.

Photograph and Post

I took this picture with my iPhone SE because at the time I did not have my DSLR on hand to capture a pristine picture. The aperture for the picture was $f/1.8$, and used a focal length of 3.9 mm. Other statistics such as shutter speed, ISO and white balance I was unable to find with the data I had. That being said, I am happy with how the final image came out. I did not zoom in on the original photo, but rather did a bit of



cropping to highlight the specific cloud that I wanted to capture. In post, I also made several other changes. First, I added saturation to make the blue of the sky pop out of the image. I also added contrast so that the cloud would be better visible off of the background. I tried to crop out the sun as much as possible from the image because it was very direct and bright, and washed out that part of the image.

Conclusion

Clouds are extremely interesting and it was enjoyable to learn more about them in this project. For a future project, I would like to do more research beforehand on weather forecasts to predict where and when beautiful cloud formations will be present. I also hope to get into the mountains a bit and bring out my DSLR in order to get a better image capture. I am excited to see what clouds I can discover in the future!

Works Cited

1. Wmo. "Cloud Identification Guide." *International Cloud Atlas*,
<https://cloudatlas.wmo.int/en/cloud-identification-guide.html>.
2. "Skew-T Chart." *Atmospheric Soundings*,
<http://weather.uwyo.edu/upperair/sounding.html>.