

CLOUDS FIRST REPORT

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Clouds First
Section 1
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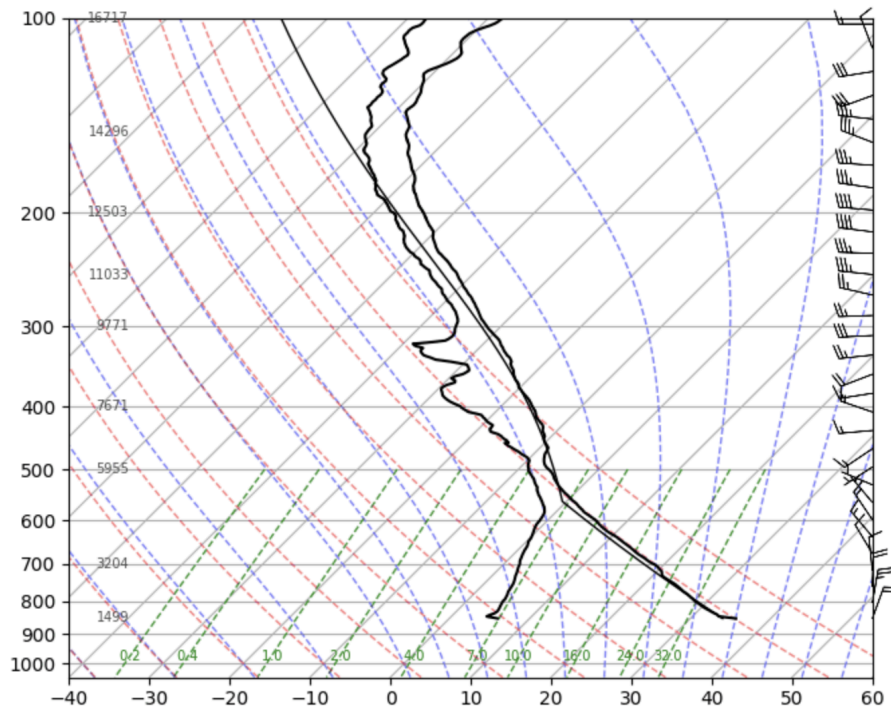
Cumulus cloud hanging over North Denver, Aug 23, 6:30pm.

This is a cloud I captured during a bike ride during one of my first couple days back in Boulder. After biking to the top of the large hill on the route of US 36, I was met with this view and had to take a picture of this unique shape. I was amazed by the detail of the top of this Cumulus cloud and the hazyness at its bottom created by rainfall.

I was facing west in this image, looking exactly over the northern suburbs of Denver. As seen in the image I was only aiming a little over the horizon, maybe 15-20 degrees upward. The sun was setting behind me, it was already around 6:30 pm, August 23rd.

The Clouds in the photo appear to be cumulus clouds, big, puffy and white. The rest of the sky was clear that day. The weather remained constant throughout the day, so the clouds we see now are probably very similar to the ones we saw in the morning. No fronts or changes in weather happened after the image either, it did not rain or become overcast in the following hours. Based on assumptions from the image, these clouds

appear to be very low in the sky, and based on the Skew T diagram shown below, we can see clouds are more likely, at around 4500 feet. And the clouds in the image do match the unstable atmosphere shown in the Skew T diagram.



Skew T diagram taken from August 23rd at 5pm in Grand Junction, Colorado

Below is the original image taken with my Iphone. My Iphone 14 Pro has a 48 MP main sensor camera which was used for this image, and the width is 3024 pixels and height is 4032 pixels. For image processing, I used a Dark Table, and the main changes were cropping, focusing more on the center of the clouds and using the rule of thirds to hold the ground and sky even, and contrast manipulation, adjusting the colors so the greens and blues pop a little bit more.



Original image

In conclusion, I believe that the image turned really well. I would ask any viewer if the cropping of the final image forces the final product to lose too much resolution, or is it not noticeable. I believe the base line quota was indeed accomplished in this photo, the captured cloud really shines.