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Flow Vis

## Clouds Second Report

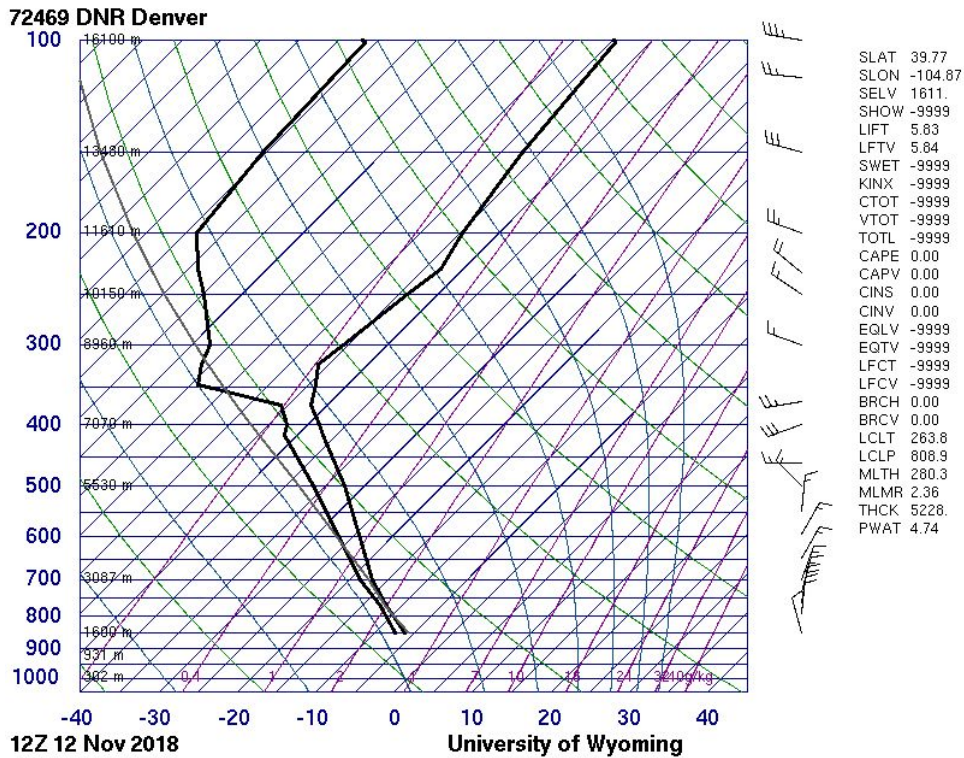


For the first clouds project I went with a sunrise because I wanted a very red-styled image. For the second project I decided to try and go with more of a blue theme. For about a week before this image was taken, there weren't very many clouds in the sky which limited my chances of capturing a cloud. I was very surprised to see a cloud in the sky while I was sitting in the Engineering Center so I ran to the balcony of the ITLL to capture this with my phone camera.

This was taken on November 12th, around 10:30 am, just before class started. The settings for this image were an aperture of F1.7, ISO of 50, and an exposure time of 1/9091 seconds. This picture was originally wider, however I felt that the left side (which I cropped out) was not adding to the clouds aspect of the image, so I removed it. I decided to leave the foreground in there (like the trees and the Business building) because I felt it added a lot of beauty to the image. Post process also consisted of increasing the saturation (especially for the color blue), while also increasing the contrast to make the clouds pop some more. I also increased the whiteness of the whites so the snow and clouds appeared less gray.

I came to the conclusion that the cloud featured here is a stratocumulus cloud due to various sources. I first looked at the Skew-T (shown below) which showed there could have been

clouds in the region of 800-7000m. I also found the CAPE to be zero, meaning the atmosphere is mostly stable, which fits in with a stratocumulus cloud. I then looked at the ceilometer for the day in Boulder and found there were clouds at a height of 1500-2000m, which also fits in with a stratocumulus. Lastly, I looked at various stratocumulus images online and felt this particular cloud looked incredibly similar to the ones online. At the end of the day, I'm happy with this image as I was able to get a picture of a cloud during a time when clouds seemed very rare.



*Skew T for November 12th*