



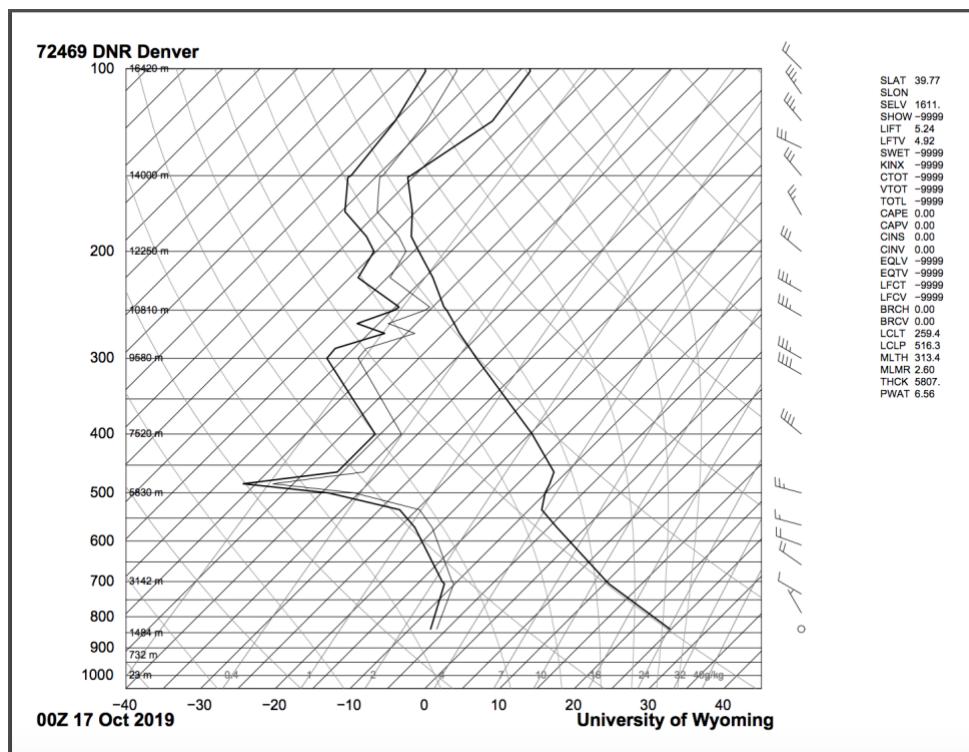
# Cloud 1<sup>st</sup> Report

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Flow Visualization CINE 4200  
10/30/19

This picture was for the 2019 cloud image assignment for Flow Visualization. We took these pictures to help show the phenomenon of flow that occurs up in the sky every day as it is every changing and there are many different types of flows that can happen depending on the weather conditions that day. For my specific picture I wanted to illustrate the mountain wave clouds which occur within mountain ranges with high winds. I also wanted to take this picture at night as we mostly associate clouds with the daytime because that's when we really pay attention to them.

For this picture I took it at the base of Chautauqua Park in Boulder Colorado at 7:45 at night. The direction I was facing was north west with an angle of about  $40^\circ$  from the ground. As mentioned, this picture was taken at 7:45 at night on October 16<sup>th</sup>.

These clouds are Mountain Wave clouds which form rather low and stay between mountain ranges due to the winds. You can tell from the right side of the skew T that there was good wind at that time to make these clouds form. Also, with a cape of 0 I had a stable atmosphere



at the time. We had a high of 80° Fahrenheit that day and fairly clear weather in boulder but within the mountain range these clouds were sprawled across the skyline. There was no rain or snow any time this week and the clouds the day before and after were fairly similar as the weather conditions were similar.

For this picture I used my Canon Rebel T7i Camera. The field of view was probably close to 100 yards. The distance from my camera to the cloud was over a thousand feet. The exposure specs of the picture are ISO 6400, 41 mm zoom, f/5 and a shutter speed of 1/8<sup>th</sup>. These exposure setting were crucial to try and capture the clouds at night. I also used the light from the moon behind the clouds as a focal point and where I got a lot of the light exposure from. I didn't do much to the post processing except up the exposure to get the most light into the picture. Being colorblind I try not to adjust the color too much because I don't really have a clear line of realistic vs nonrealistic colors.

This image really reminded me of the "Game of Thrones" episode *The Battle of Winterfell*. I didn't really mean for this to happen but as I continued to edit the image it became quite clear to me. I like how I took the photo at night and got a different perspective of the clouds as opposed to my peers. I would like to improve the graininess of the picture as try to eliminate that to get a crisper image. I'm really happy with this picture and if I were to redo it I'd try and take it from a higher vantage point.