

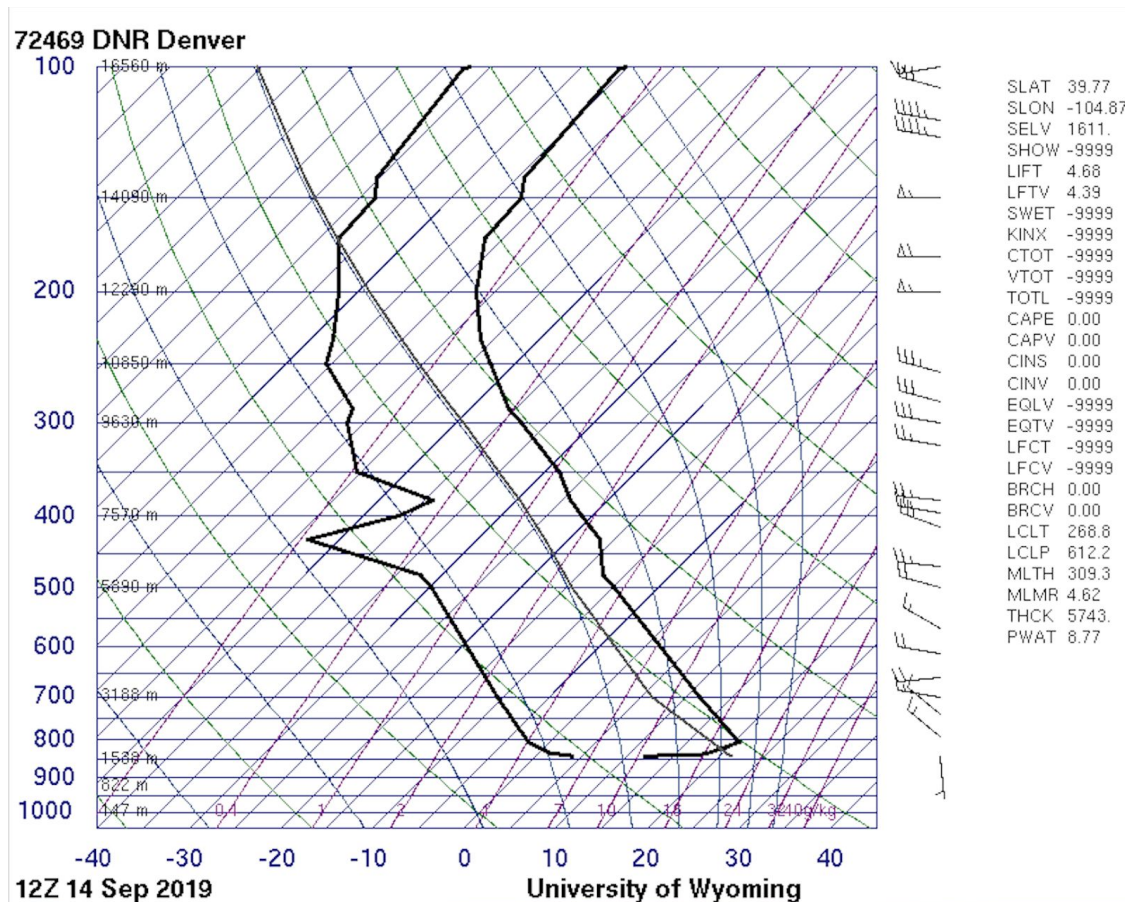
Abby Rinerson  
Clouds First Report  
ATLS 4151-001  
Alto cumulus  
9/14/19 at 1:15 pm  
Outside the Engineering Center



This image was taken for the Clouds First assignment. I intended to capture a nice image of clouds in the sky. It was a calm day and the clouds appeared in a stable atmosphere. My camera recorded the date of the image as September 15th however I took this image on the 14th. I am working on fixing it so it records the correct date and time.

This image was taken outside of the Engineering Center around 1:15 pm on September 14, 2019. It was taken almost directly up at the sky, with an angle of approximately 70 - 80 degrees from the ground.

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I believe these are altocumulus clouds. Based off the Skew-T diagram below, the atmosphere was stable because the CAPE value is 0 and the clouds are present around 7,800 meters or about 25,600 feet. Altocumulus clouds form around 2,000 to 6,000 meters in elevation and can appear in parallel bands or rounded masses, as in this image (“Altocumulus Clouds.”). The rest of the sky was clear and blue with weather being mostly sunny that day.

The clouds were approximately 7,800 meters in elevation and the field of view was quite wide, so as to capture all of the clouds present. The focal length was 18, the shutter speed was 1/250, the aperture was 10 and the ISO was 100. It was taken with my Canon EOS 80D with the

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original image being 6,000 x 4,000 pixels and the final being 4,974 x 3,316 pixels. I did not do much editing as I liked how the original image looked, however I did crop it a bit.

The image reveals how alto cumulus clouds can appear during the day and their natural flow across the sky. I like how calm the image is, however I think it is lacking in interesting content. The clouds are nice, however they are a bit bland. I would like to improve this image with some other content, for example the moon, some trees, a building, something for reference size and to add to the image's appeal.

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#### Citations

“Alto cumulus Clouds.” *Alto cumulus Clouds: Parallel Bands or Rounded Masses*,  
[ww2010.atmos.uiuc.edu/\(Gh\)/guides/mtr/cld/cldtyp/mdl/altcu.rxml](http://ww2010.atmos.uiuc.edu/(Gh)/guides/mtr/cld/cldtyp/mdl/altcu.rxml).