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Cloud Report 2

4/15/09

For our second cloud project, the purpose was to mainly get ourselves acquainted with cloud formations, as well as basic atmospheric conditions which cause such formations. Also, we learned to read basic weather models to decipher the what, where, when, why, and how of these weather phenomena.

The image I used for this project was taken in Boulder, CO on March 1st at 6:45pm. The camera was located at highway 36 and E. Aurora Avenue, and pointed at about 60 degrees off the horizontal, facing southwest.

The clouds pictured in the image are a combination of nimbo-stratus, stratus, and cirro-stratus. The nimbo stratus clouds are the lowest lying clouds, somewhere around 6,500 feet. Right about that around the same altitude is the stratus clouds. Finally, much higher and much more sparse are the cirro-stratus clouds, which lie about 20,000 feet above the earth's surface. The surrounding sky looked similar to the image. The cirro-stratus clouds were present in the entire sky, while the nimbo- and stratus clouds were less prevalent.

The following are the specifications for the camera during the shot:

Canon DIGITAL IXUS 700

f-stop: 1/13

Focal length: 23mm

Max aperture: 4.59375

Distance to object: 150 ft

Field of view: 300ft x 250ft

For this picture, I did not photoshop anything. In my opinion, I thought that no photoshopping was needed, based on the fact that I already had 3 layers of clouds, along with the fact that the colors present in the picture were important to realize the intent of the picture. The storminess of the day was important to capture in this picture, and altering the photo in any way may have defeated that purpose. Below is the image sent in as well as the skew-t plot for denver at the time the picture was taken.



