

7 December 2018

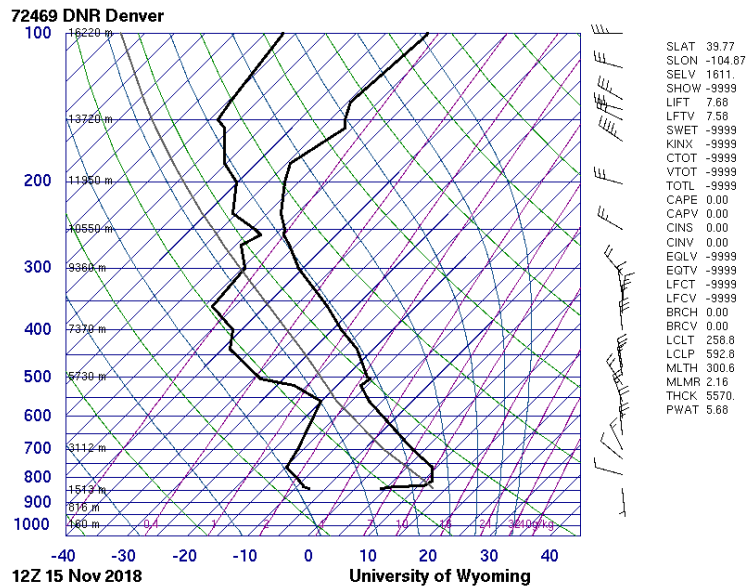
# CLOUDS #2

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Flow Visualization: The Physics and Art of Fluid Flow  
MCEN 4151/5151, FILM 4200



Just like the first cloud's photo, we were assigned to take photographs clouds and investigate their flow phenomena. The photo above was taken on November 15th, 2018 at 2:40pm mountain time.



According to the Skew-T Diagram shown above, its observed that the CAPE reads 0.00 meaning these are stable clouds. The two black lines begin to converge roughly around 5500m indicating that these are most likely altocumulus clouds. Altocumulus is a middle altitude clouds and is characterized by its globular masses of rolls in layers and they begin to form roughly between 2000-6100m.

The camera that was used was a Samsung Galaxy S8. The camera settings could be seen below:

Camera	
Camera maker	samsung
Camera model	SM-G955U
F-stop	f/1.7
Exposure time	1/1644 sec.
ISO speed	ISO-50
Exposure bias	0 step
Focal length	4 mm
Max aperture	1.53

As seen in the image below, there was some post processing in order to remove the tree's and light post form the photo.

