

Tony Vo  
 Clouds 2  
 Flow Visualization  
 4/19/2010

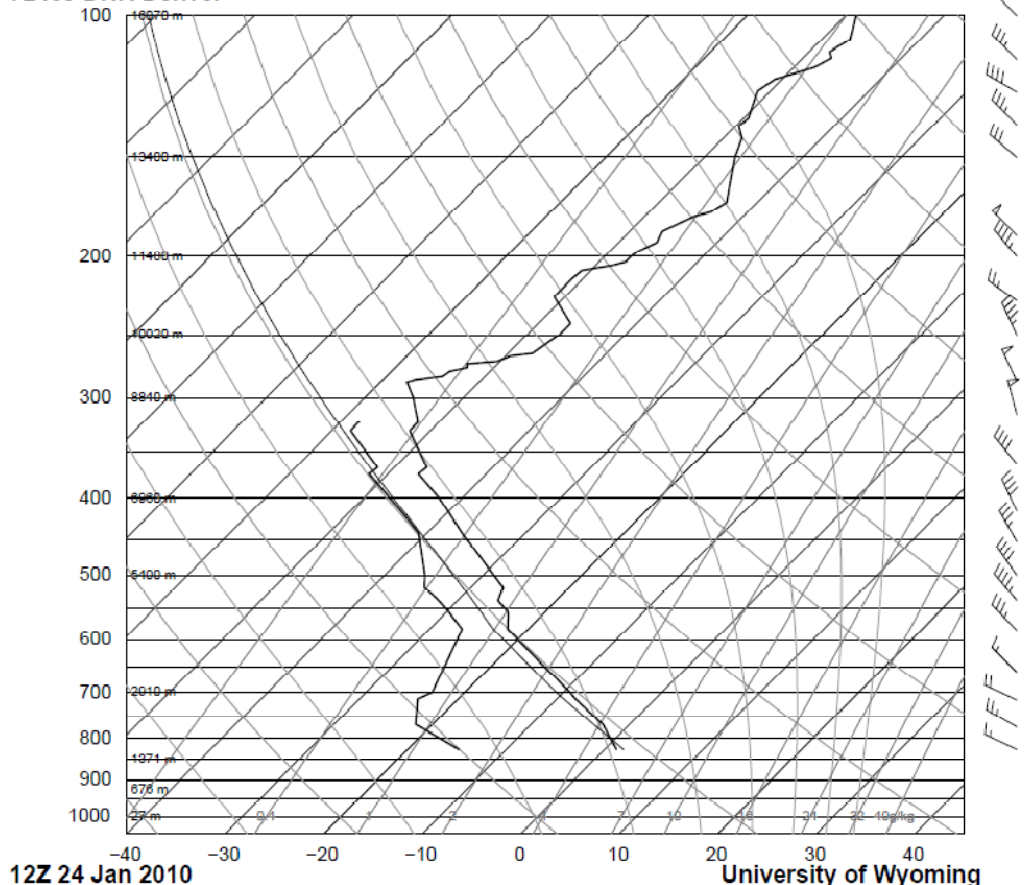
### INTRODUCTION

This image was taken in Broomfield on January 24<sup>th</sup> 2010. The image captures a cumulus fractus as the cloud breaks apart. On this day there were scattered clouds and mild weather. There sky was filled with cumulus clouds which are also known as fair weather clouds. This specific picture was chosen due to the simplicity and isolation of the cloud.

### SKEW-T

The skew-t plot courtesy of the University of Wyoming show that there was a CAPE of 0.00 signifying a stable atmosphere on that day. Judging from the parcel line and the dew point line the skew-t shows that there may have been clouds anywhere from 3700 meters to about 8840 meters in which the dew point line cuts off possibly due to hardware malfunction.

**72469 DNR Denver**



SLAT	38.75
SLOE	
SELV	1625.
SHOW	-9999
LIFT	4.08
LFTV	4.07
SWET	-9999
KINX	-9999
CTOT	-9999
VTOT	-9999
TOTL	-9999
CAPE	0.00
CAPV	0.00
CINS	0.00
CINV	0.00
EQLV	-9999
EQTV	-9999
LFCT	-9999
LFCV	-9999
BRCH	0.00
BRCV	0.00
LCLT	252.1
LCLP	608.1
MLTH	290.6
MLMR	1.20
THCK	5373.
PWAT	2.96

## PHOTOGRAPHY

The image was taken with a Nikon D60. The camera was on auto mode and the shutter speed was 1/400, with an f-stop of f/10, a max aperture of f/5.6, an ISO of 100, and a focal length of 55mm. The original dimensions of the image were 3872x2592 pixels. An aggressive wide crop was employed to focus on the simplicity of the cloud and then the contrast on the lower half of the image was increased to bring out shadows and detail; this also produced an interesting color shift on the lower half of the picture. These changes can be seen below.



To:

