Nick Beato
FILM 4200
Cloud 1 Report
3/28/2012

Cloud 1 Report

For my first cloud image, I wanted to capture a crepuscular ray through a cloud. I chose a great day with many clouds in the sky around the dusk hour. On 2/26/12 I went to the Lost Gulch located about 6 miles up flagstaff road. The time was about 3:30 pm when I started shooting and I took about 100 photos. I wanted to experiment using the camera in all manual settings. I first started off with a shutter speed around 200 fps and my f-stop at about f22. I then started shooting and adjusting my frame speed and shutter speed every few shots. As the sun set and began to peek through the clouds I started using faster and faster shutter speeds while opening the f-stop. I also experimented with my ISO bringing it from 100 to 800 by the end. I chose this particular photo because it was aesthetically pleasing with its dark and light contrast.

Like is said earlier the image was taken at the "Lost Gulch" up flagstaff road. It was about 3:30 on February 26, 2012. The camera was facing directly west into the sun as it was beginning to set. The image was taken at an approximate elevation of 7,000 ft. with the clouds in front of the sun being at approximately 14,000 and 16,000 feet from sea level.

The clouds seen in the image consist of some cumulus clouds seen at the bottom, with one giant cumulonimbus cloud at the top. The cloud at the top looked to be a storm rolling in and only a few hours later, it started snowing. The snow did not last however, which I predicted because of the clear skies behind the storm. In the few days before the image, there was no sign of a snowstorm, so when I was the weather report I knew I had

to get my image on this day. According to the skew-t this day had an unstable atmosphere. (See attached page for skew –t plot)

In this assignment I did a lot of experimenting with my manual settings. Unlike other experiments, in which a certain function of the camera must be fixed, (ex. shutter speed for a fast moving object), this project allowed me to mess around with every aspect of the camera. My method was to start with a somewhat closed aperture (as it was a very bright situation) and to change my shutter speed for each shot. When I exhausted this technique I then changed my aperture and repeated the process. Eventually, changing the ISO, I repeated the process again. I had not known exactly which image I wanted to use as my image until I got to look at all of my shots. The image I found most aesthetically pleasing had an f-stop of f16, shutter speed of 1/3200 fps and an ISO of 100. I chose the image and then went back and looked at the settings I used. This experimentation of camera settings taught me a lot about shooting in a high lighting situation.

Overall I very much liked this assignment for many reasons. As clouds are very hard to capture on film, this project taught me how to take an image of a hard to capture object. Not only did I learn a new method of shooting, by experimenting with all aspects of the camera, but it also taught me about the clouds themselves. In looking at the skew-t I learned about atmospheric changes as well. I like the way my image came out because of the dark and light contrast, specifically with the dark cloud on the top. To improve this image, I may want to take the camera settings even further and experiment more with different settings. I look forward to doing my Clouds 2 image and using concepts I leaned from this project.

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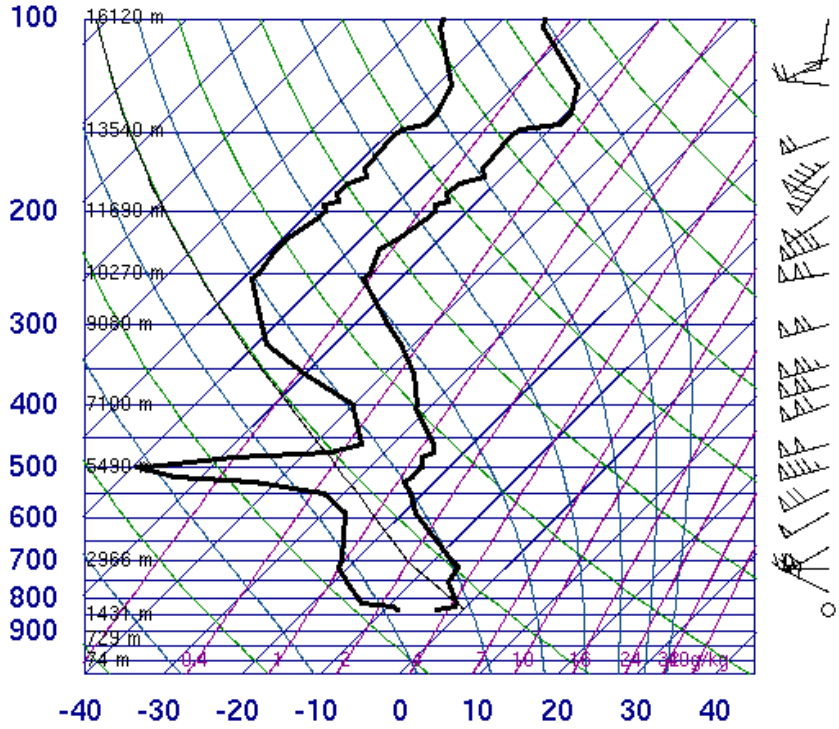

SLAT	39.75
SLON	-104.87
SELV	1625.
SHOW	-9999
LIFT	10.59
LFTV	10.53
SWET	-9999
KINX	-9999
CTOT	-9999
VTOT	-9999
TOTL	-9999
CAPE	0.00
CAPV	0.00
CINS	0.00
CINV	0.00
EQLV	-9999
EQTV	-9999
LFCT	-9999
LFCV	-9999
BRCH	0.00
BRCV	0.00
LCLT	257.4
LCLP	677.3
MLTH	287.7
MLMR	1.70
THCK	5416.
PWAT	3.59

Sources

The University of Wyoming, College of Engineering, Department of Atmospheric Sciences.
http://weather.uwyo.edu/upperair/sounding.html

Name(s): Nick Beato

Assignment: Clouds 1 Date: 3/28/12

Scale: +, ! = excellent √ = meets expectations; good. ~ = Ok, could be better. X = needs work. NA = not applicable

Art	Your assessment	Comments
Intent was realized	√	
Effective	√	
Impact	√	
Interesting	√	
Beautiful	!	
Dramatic	!	
Feel/texture	√	
No distracting elements	√	
Framing/cropping enhances image	!	

Flow	Your assessment	Comments
Clearly illustrates phenomena	√	
Flow is understandable	√	
Physics revealed	√	
Details visible	√	
Flow is reproducible	na	
Flow is controlled	na	
Creative flow or technique	na	
Publishable quality	√	

Photographic technique	Your assessment	Comments
Exposure: highlights detailed	√	
Exposure: shadows detailed	√	
Full contrast range	√	
Focus	!	
Depth of field	!	
Time resolved	!	
Spatially resolved	!	
Clean, no spots	√	

Report		Your assessment	Comments
Describes intent	Artistic	√	
	Scientific	√	
Describes fluid phenomena			
Estimates appropriate scales	Reynolds number etc.	~	
Calculation of time resolution etc.	How far did flow move during exposure?	na	
References:	Web level	√	
	Refereed journal level	√	
Clearly written		√	
Information is organized		√	
Good spelling and grammar		√	
Professional language (publishable)		√	
Provides information needed for reproducing flow	Fluid data, flow rates	~	
	geometry	~	
	timing	~	
Provides information needed for reproducing vis technique	Method	na	
	dilution	na	
	injection speed	na	
	settings	na	
lighting type	(strobe/tungsten, watts, number)	na	
	light position, distance	na	
Provides information for reproducing image	Camera type and model	√	
	Camera-subject distance	√	
	Field of view	√	
	Focal length	√	
	aperture	√	
	shutter speed	√	
	film type and speed or ISO setting	√	
	# pixels (width X ht)	√	
	Photoshop techniques	√	
	Print details	√	
	"before" Photoshop image	!	