Cloud Project 2

Introduction

The purpose of Cloud Project 2 is to capture another captivating, aesthetically pleasing picture of a cloud formation. It is intended that the focus not only be on the cloud, but also on the earth below. A different perspective is gained by photographing the cloud from a high altitude.

Flow Apparatus

There was no real apparatus needed to photograph the picture found in **Figure 1**. It was simply taken near the summit of Pikes Peak on a warm summer day with a Canon Digital Camera.



Figure 1

Cloud Classification

The type of cloud found in **Figure 1** is most likely a fair weather cumulus cloud. Some important features include a cotton-like appearance, a flat base, slight vertical growth, and defined edges. Also, the sunlight brings out the vibrant white color of the upper portion while the base of the cloud has more of a darker gray hue. As seen in **Figure 1**, the cloud seems to be relatively low in the atmosphere, which would suggest that it is located in the troposphere. It is important to note that, under the right conditions, a towering cumulonimbus cloud can develop from this cloud formation. Thunderstorm conditions are associated with cumulonimbi.

Visualization Technique

There was no real visualization technique due to the fact that the cloud was so well lit by the mid-day sunshine. It is simply a recorded observation of the unstable conditions in the atmosphere.

Photographic Technique

- \circ Size of field of view ~ 5 miles
- Distance from object to lens > 1000 ft

Lens focal length & other lens specs -7.8 mm

- Type of camera Canon PowerShot A80 (4.0 megapixel)
- Exposure specs
 - F-Stop 8.0

Photographic Technique (continued)

Aperture – 6.0 Shutter speed – 1/318 second Focal Plane X Resolution – 8114.286 inches Focal Plane Y Resolution – 8114.286 inches Exposure Time – 1/320 second Film type – NA, saved on a 256MB flash card and transferred for editing Processing – the resolution was adjusted from 180 to 300 pixels/inch in

Adobe Photoshop

Conclusion

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The image gives a sort of birds' eye view of a large, fair-weather cloud formation. On the positive side, the picture is time resolved in addition to being very interesting to look at. A downside of the picture is the fact that the area underneath the cloud formation seems to be foggy and is not clearly defined. A simple question regarding this particular cloud formation would be to ask if the given classification is accurate. My intent after completing Cloud Project 1 was to get a more breathtaking picture with more foreground elements to add depth. In that sense I have fulfilled my intent, but I think maybe the foreground overpowers the cloud, making it seem less significant. To improve these types of pictures I would focus on trying to find a balance when incorporating foreground elements. Overall I am pretty pleased with my final picture.