

The intent of this image is to capture clouds in a completely natural environment where they dominate the landscape and can mean the difference between life and death. These particular clouds are a series of L1-Cumulus humilis clouds and are rather unassuming and non-threatening. The image was taken approximately 1.5 miles into the Joint Trail in Canyonlands National Park, Needles Section, UT approaching from Chesler Park Trailhead.

Despite the Cumulus clouds unassuming nature they are moving quite rapidly. Image was taken facing westward with winds coming out of the Southwest at approximately 10-20 mph. A small cropping of 'The Needles' was placed in the frame to help provide a reference for scale. These clouds are stable and although non-surface reaching rain bursts are visible in the center, primary cloud. This moisture rapidly evaporated and returned back into the cloud body. The nearest Skew- T Data center for this image is the Grand Junction, CO station and its information for the time frame of the image is below and is from the University of Wyoming, Dept. of weather sciences website. The Grand Junction center is approximately 100 miles away from the location of this image.

QuickTime™ and a
TIFF (LZW) decompressor
are needed to see this picture.

The image was taken at an approximate elevation of 1900 meters and the clouds deck (bottom of clouds) is estimated at approximately 3000 meters. The clouds are several thousand meters across. Some Altostratus translucidus clouds are also present in the image. The weather was extremely overcast and rainy approximately three hours before the image was captured and a thunder system moved into the area approximately

six hours later. The image was captured with natural sunlight in conditions slightly (-1 Stop) from Basic Daylight Exposure.

In the 1/250 of a second that it took to capture this image the clouds look relatively still however speculation is that they were traveling greater than 100 miles per hour relative to the ground implying that within this frame the clouds moved 1.1E-4 miles. The Needles are approximately 2 miles from the lens and are multiple hundreds of feet tall. This image was captured without the use of tripod stabilization and was taken at just after noon on Oct. 6th, 2007. Additional data is available in the following table:

Image Date	10/06/07 12:09 PM MST
Camera Model	Canon EOS 10D
Serial Number	620312005
Shutter Speed	1/250th second
Aperture	F16
Exposure Bias	0ev
Focal Length	18mm
ISO Speed Rating	ISO 200
Aspect Ratio	3:2
Orientation	Landscape
Depth	16-bit
Color Profile	Adobe RGB 1998

No correction or manipulation to the image was performed; file submitted is in original CRW format.