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UFO UpDates Mailing List

Mexico City Video Analysis - Part Three

From: **bruce maccabee** <brumac@compuserve.com>
Date: Sat, 22 Nov 1997 11:46:03 -0500
Fwd Date: Sat, 22 Nov 1997 19:49:28 -0500
Subject: Mexico City Video Analysis - Part Three

[I've tried to clean this one up too Bruce -
a few lines I didn't touch - ebk]

This is the third report on the Mexico City video.

MORE MEXICO VIDEO ANALYSIS - PART 3

Thanks to a respondent who made his own measurements of the motion of the UFO I have discovered that my estimates of velocity, acceleration and rotation speed are wrong.

I used a blowup version of the video to make the velocity and acceleration measurements. By comparing the time it takes (number of frames) for the UFO to disappear behind the first building I determined that the blowups had also been slowed down. The correct calculations and comparisons with the original calculations are shown below.

	FROM DIRECT VIDEO		FROM BLOWUP
		1.6x	7x
frames to go behind			
building	20 frames	47	47
time is #frames times 1/30			
sec times scale factor			
0.67	20 x (1/30) = .67 sec	47 x(1/30) x 0.425=	
	0.67 sec	0.67	

Velocity based on previous calculation using 1.6x
and assuming 25 ft wide UFO 16.9 ft/sec

Corrected velocity (use scale factor) 16.9/.425 = 39.7 ft/sec

The velocity change (zero to 39.7 ft.sec) appears to take place in 1 frame of the direct video. Hence the acceleration is $39.7/(1.30) = 1191 \text{ ft/sec}^2$ which corresponds to 37 g's ($g = 32 \text{ ft/sec}^2$).

If the acceleration took place in 2 frames the magnitude of the acceleration was 1/2 of this.

THIS NUMBER SUBJECT TO FURTHER MODIFICATION.

Because of the time scale factor change the wobble rate is about twice what was given before and the apparent rotation rate is about twice what was given before.

NEW INFORMATION : I have been informed that the videographer is known, the original video exists, and there are 9 other witnesses. I cannot verify this information, it is what has been told. I was also told that one of the witnesses was at street level on the opposite side of the building where the UFO finally disappeared and this witness claims that she saw the UFO "disappear."

If so, this could explain why it was not seen in the video reappearing from behind the building.

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