



The Great Moon Hoax

Why a hoax?

President Kennedy couldn't deliver on the promise

How many believe it?

6% of all Americans have doubts

At what stage in the Apollo programme did it start?

Man in Earth orbit - yes. Man on the Moon - no.

What is the "evidence"?

Scientific scrutiny makes a good science lesson ...and hopefully an interesting talk.

Great Moon Hoax / Introduction

Kennedy made a promise...

Impressive... Important... Difficult... Expensive...

















The Evidence

- Computing power just wasn't up to the task
- Radiation in space would kill the astronauts

• Video anomalies : filmed on Earth, just slowed down

flags wave in the breeze dust doesn't fall at the right rate hammer and feather experiment rocket exhaust not visible from LM

• Image anomalies : many anomalies are quoted...

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So Many Image Anomalies...

Concerning the Hasselblad cameras used...

- Astronauts couldn't operate the cameras with gloves
- Fiducial cross marks appear behind objects
- Images are perfectly framed even though no viewfinder

Great Moon Hoax / Evidence / Image Anomalies

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So Many Image Anomalies...

- Shadow angles are inconsistent with illumination by Sun
- Shadow lengths are inconsistent with illumination by Sun
- Shadows are filled in by another light source
- No stars appear in the sky
- No blast crater underneath the Lunar Module engine
- Same background appears in images of different regions

... and dozens more

Great Moon Hoax / Evidence / Image Anomalies

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Look at the Evidence

Let's look at the evidence, piece by piece, and see how much of it stands up to scientific scrutiny.

Computers

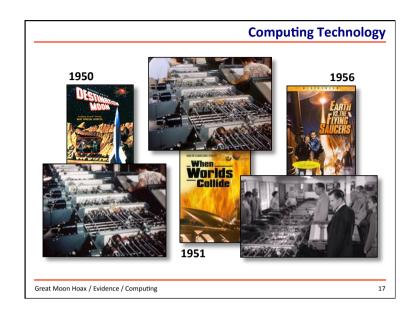
Radiation

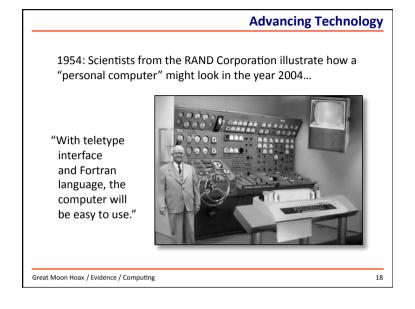
Video clips

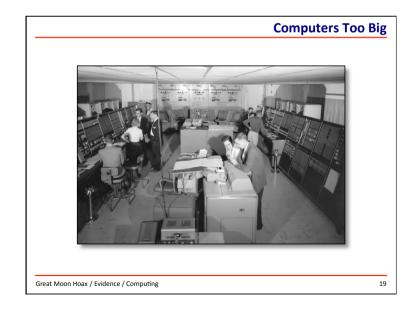
Still images

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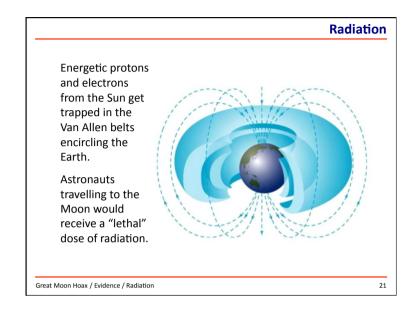
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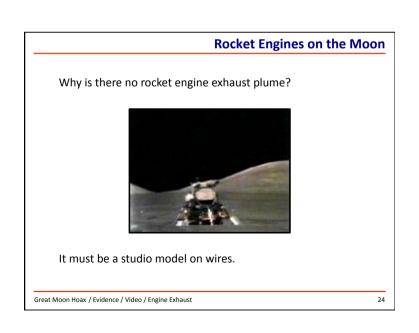


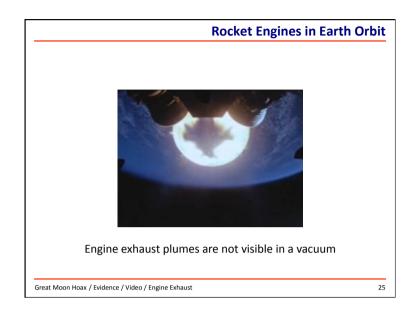




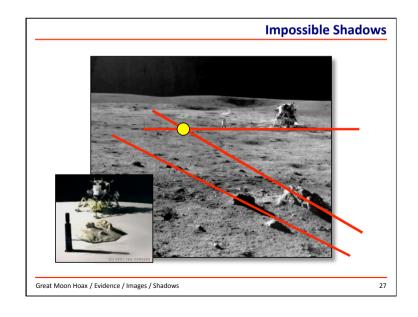


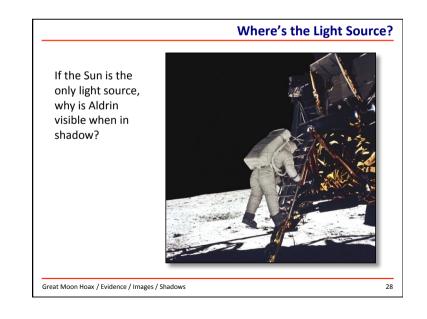


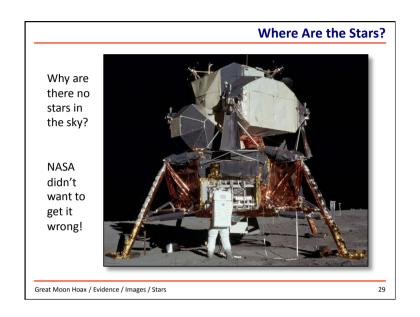


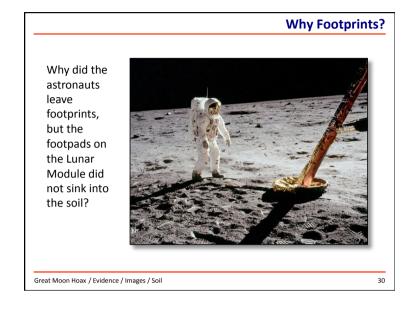


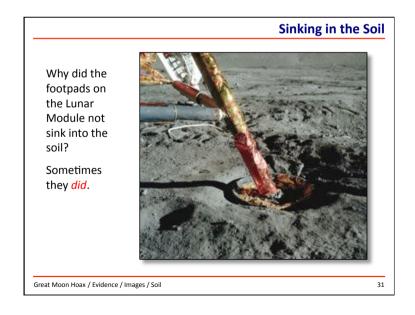


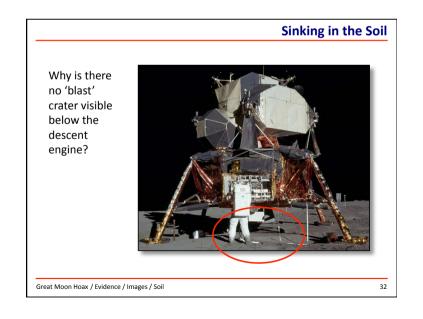


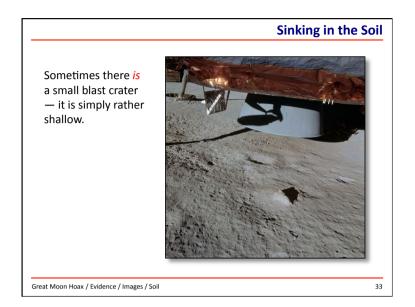


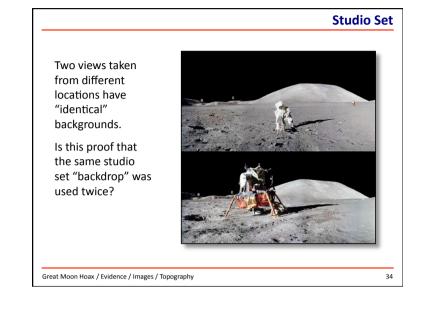


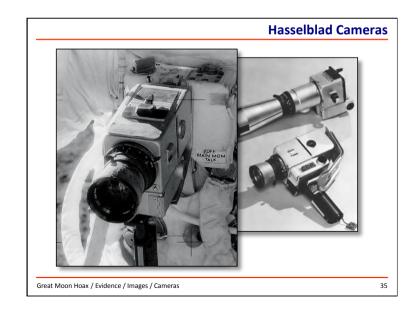


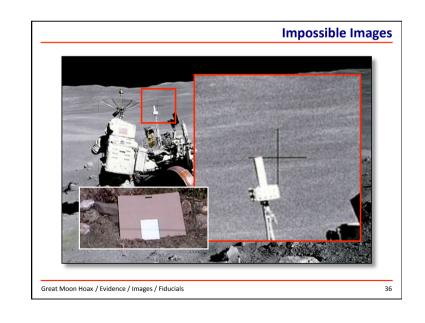




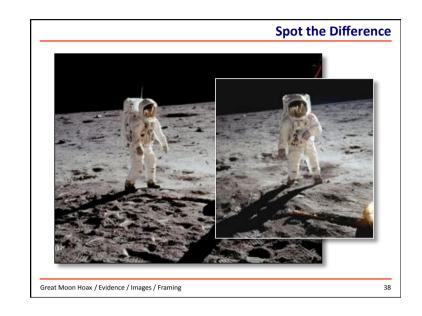




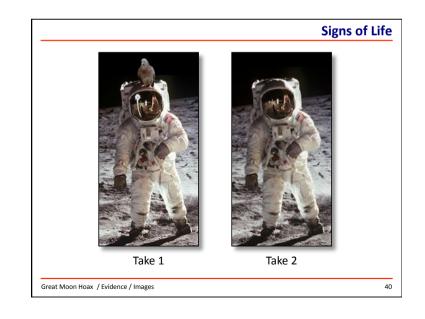












Proof

So the question remains...

Is there *any* evidence that can prove, beyond any reasonable doubt, that the moonlandings *did* take place?

That depends on your definition of 'reasonable'.

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Kicking Up Some Dust



Great Moon Hoax / Proof / Dust





Can Hubble See Apollo?

Despite what some Moon Hoax advocates believe, we still have to obey the laws of physics.

Resolution of the HST $\sim \lambda / D \sim 0.2 \,\mu$ radians

~ 10 millionths of a degree

~ 0.05 arc seconds.

To see an object a few metres across at a distance of 400,000 km would need a resolution of

 $\sim 0.01 \,\mu \text{radians}$

~ 0.002 arc seconds.

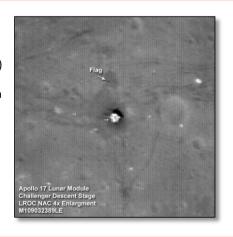
The Lunar Module is too small by a factor of ~ 30 .

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Can Anything See Apollo?

The mapping satellite Lunar Reconnaissance Orbiter Camera (LROC) has a Narrow Angle Camera (NAC) that can see the evidence.



Great Moon Hoax / Proof / LROC

Be Sure of Your Facts

Professor Goddard does not know the relation between action and reaction and the need to have something better than a vacuum against which to react. He seems to lack the basic knowledge ladled out daily in high schools.

New York Times editorial 1921

Correction: It is now definitely established that a rocket can function in a vacuum. The Times regrets the error.

New York Times July 1969

Great Moon Hoax / Facts

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