



FUNDACIÓN
RAMÓN ARECES



sociedad
geográfica
española

El programa Apollo

Por qué se fue a la Luna... y no se
volvió en 50 años

Sociedad Geográfica Española

Fundación Areces – Octubre 2019

JFK y la Luna

THE WHITE HOUSE

WASHINGTON

April 20, 1961

MEMORANDUM FOR

VICE PRESIDENT

In accordance with our conversation I would like for you as Chairman of the Space Council to be in charge of making an overall survey of where we stand in space.

1. Do we have a chance of beating the Soviets by putting a laboratory in space, or by a trip around the moon, or by a rocket to land on the moon, or by a rocket to go to the moon and back with a man. Is there any other space program which promises dramatic results in which we could win?
2. How much additional would it cost?
3. Are we working 24 hours a day on existing programs. If not, why not? If not, will you make recommendations to me as to how work can be speeded up.
4. In building large boosters should we put out emphasis on nuclear, chemical or liquid fuel, or a combination of these three?
5. Are we making maximum effort? Are we achieving necessary results?

I have asked Jim Webb, Dr. Weisner, Secretary McNamara and other responsible officials to cooperate with you fully. I would appreciate a report on this at the earliest possible moment.



JFK y la Luna

- 3 -

h. The American public should be given the facts as to how we stand in the space race, told of our determination to lead in that race, and advised of the importance of such leadership to our future.

i. More resources and more effort need to be put into our space program as soon as possible. We should move forward with a bold program, while at the same time taking every practical precaution for the safety of the persons actively participating in space flights.

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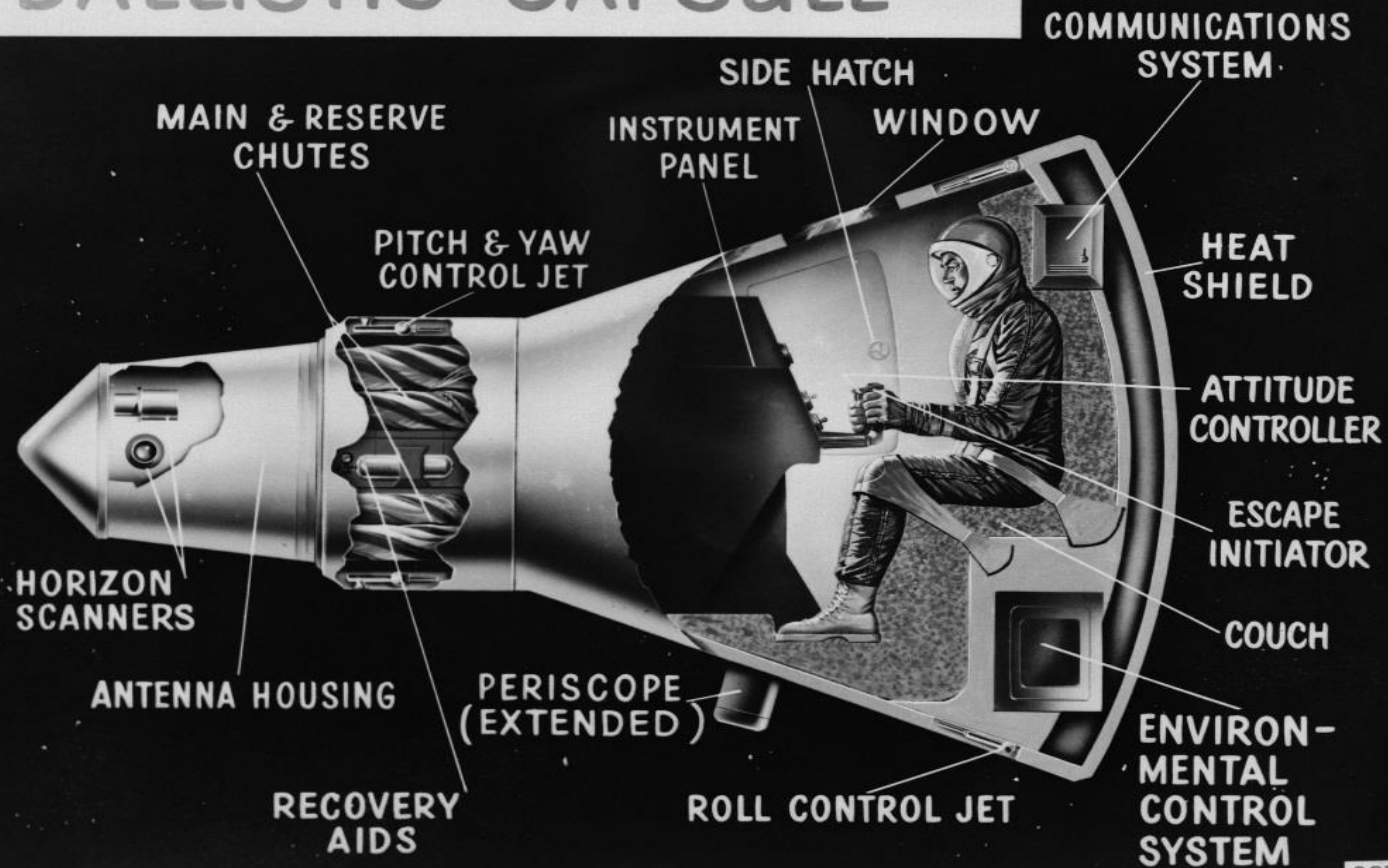
As for the specific questions posed in your memorandum, the following brief answers develop from the studies made during the past few days. These conclusions are subject to expansion and more detailed examination as our survey continues.

Q.1 - Do we have a chance of beating the Soviets by putting a laboratory in space, or by a trip around the moon, or by a rocket to land on the moon, or by a rocket to go to the moon and back with a man. Is there any other space program which promises dramatic results in which we could win?

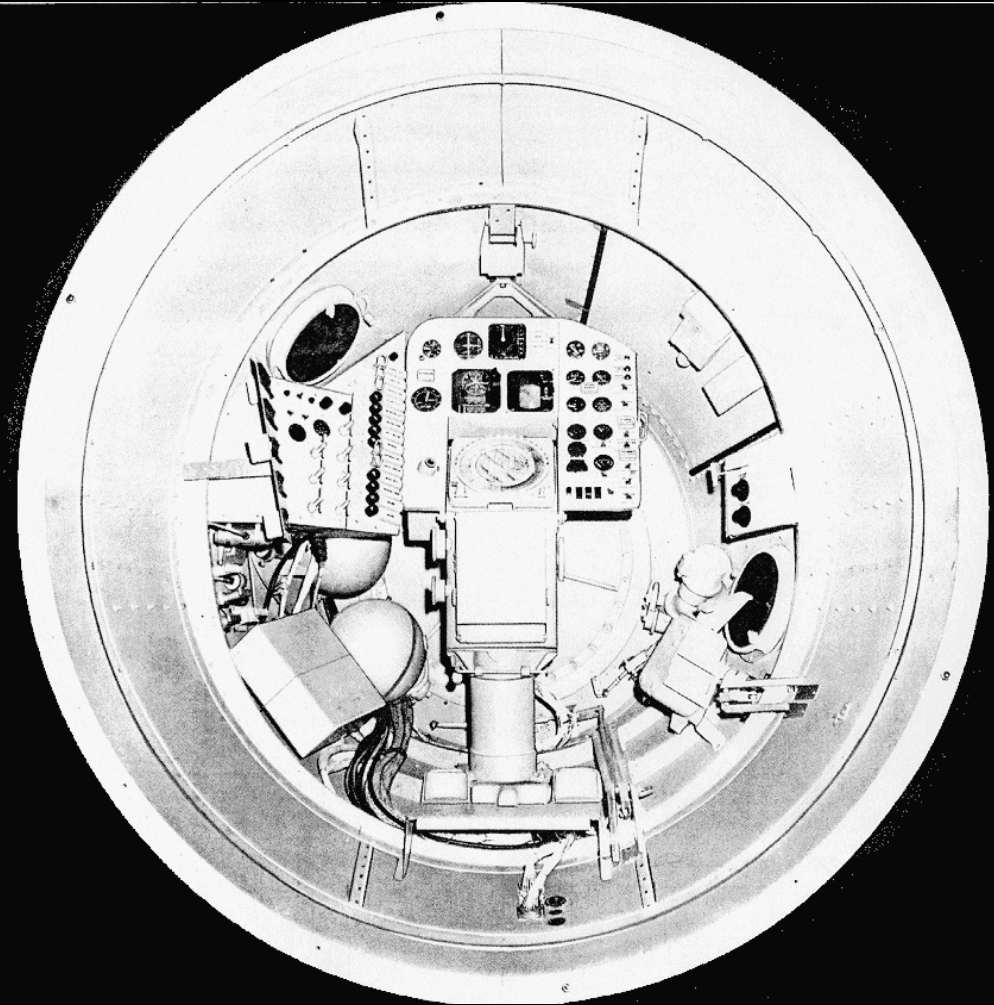
A.1 - The Soviets now have a rocket capability for putting a multi-manned laboratory into space and have already crash-landed a rocket on the moon. They also have the booster capability of making a soft landing on the moon with a payload of instruments, although we do not know how much preparation they have made for such a project. As for a manned trip around the moon or a safe landing and return by a man to the moon, neither the U.S. nor the USSR has such capability at this time, so far as we know. The Russians have had more experience with large boosters and with flights of dogs and man. Hence they might be conceded a time advantage in circumnavigation of the moon and also in a manned trip to the moon. However, with a strong effort, the United States could conceivably be first in those two accomplishments by 1966 or 1967.

Primeros pasos: Mercury

PROJECT MERCURY BALLISTIC CAPSULE



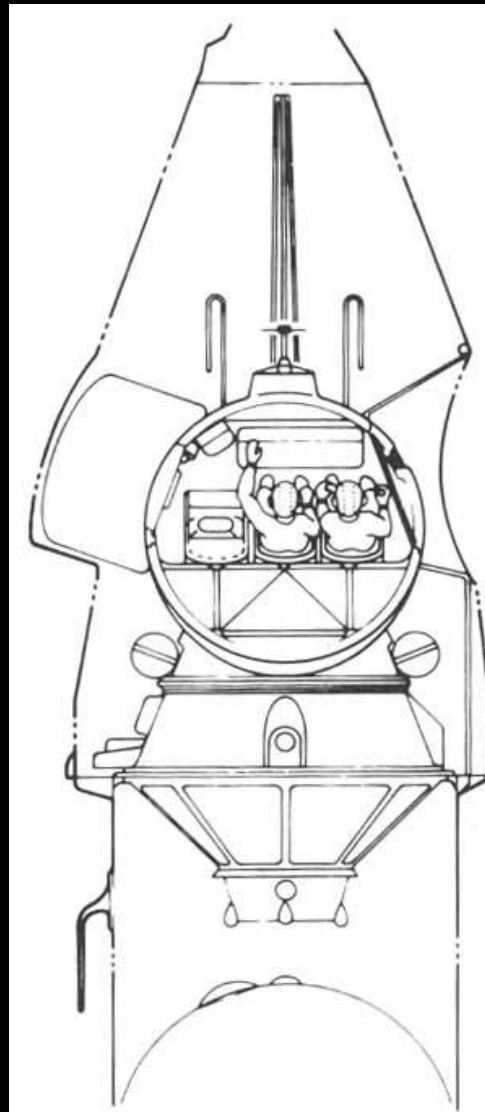
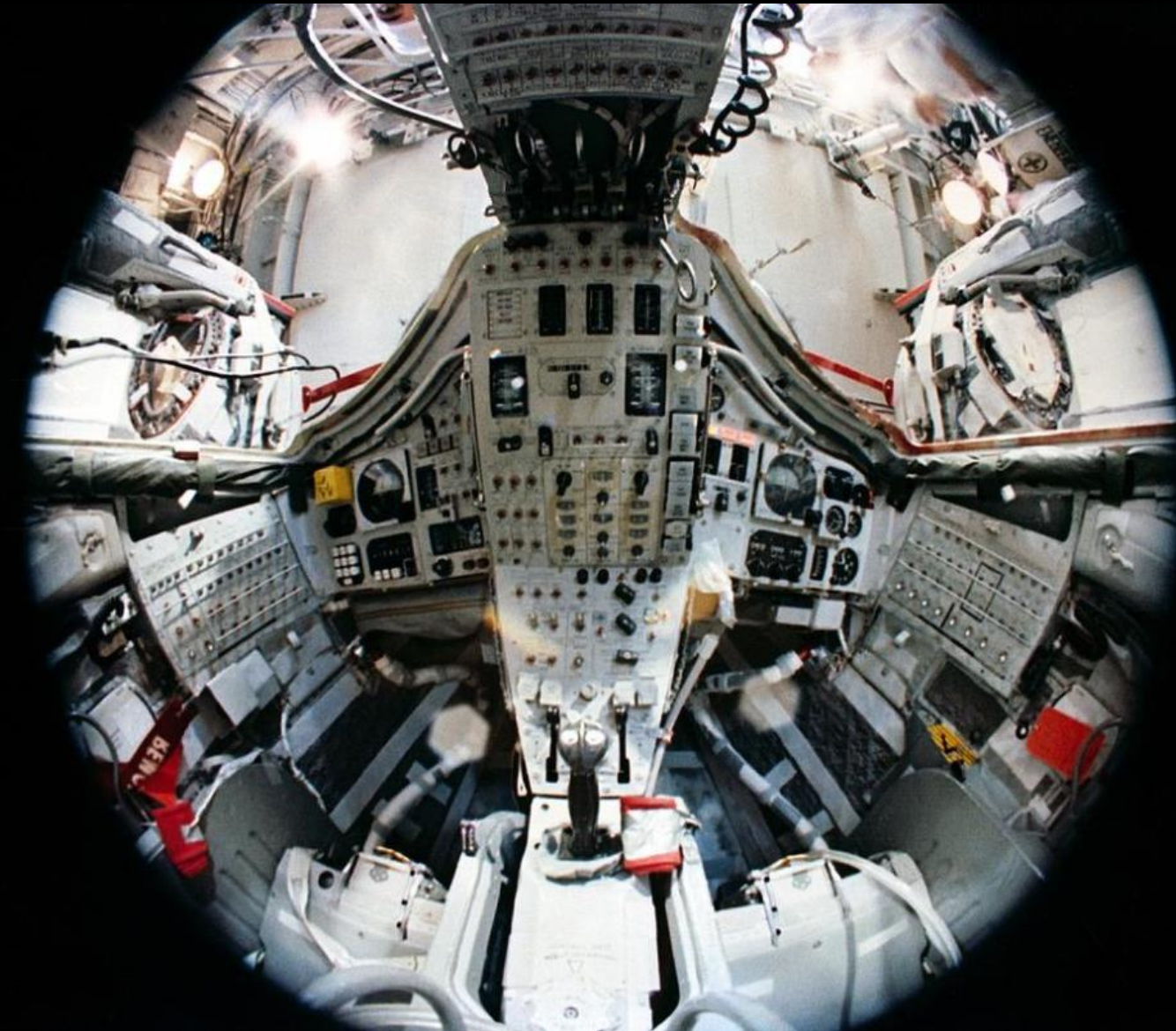
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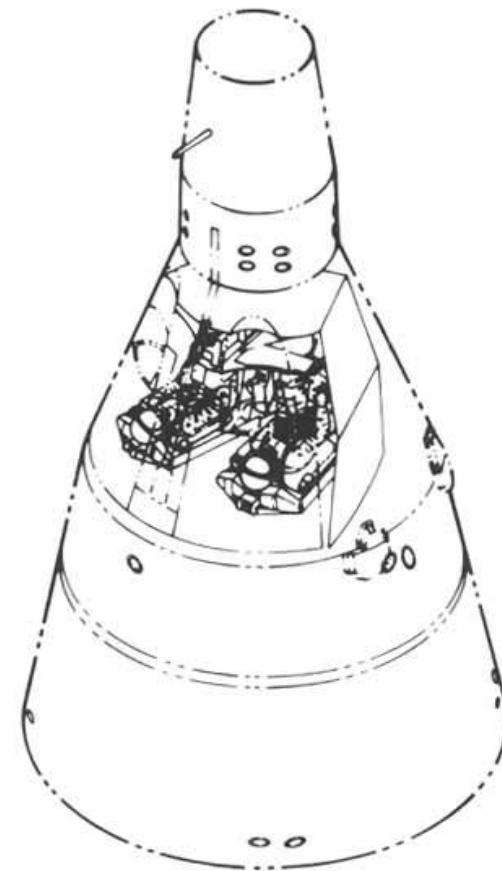
Primeros pasos: Mercury



Primeros pasos: Gemini

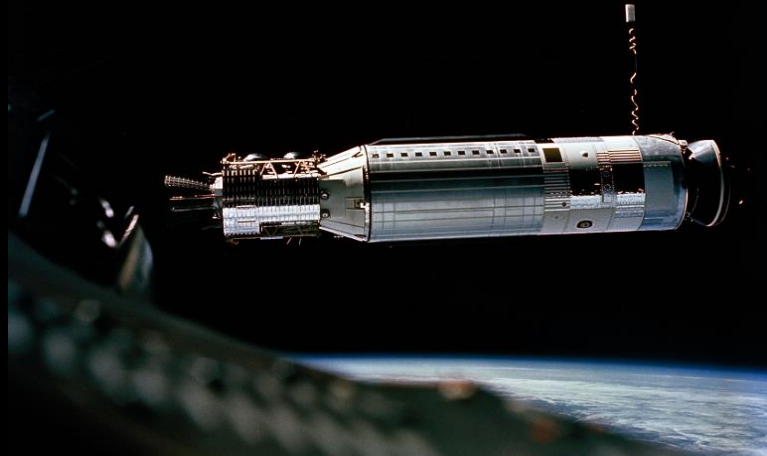


Voskhod

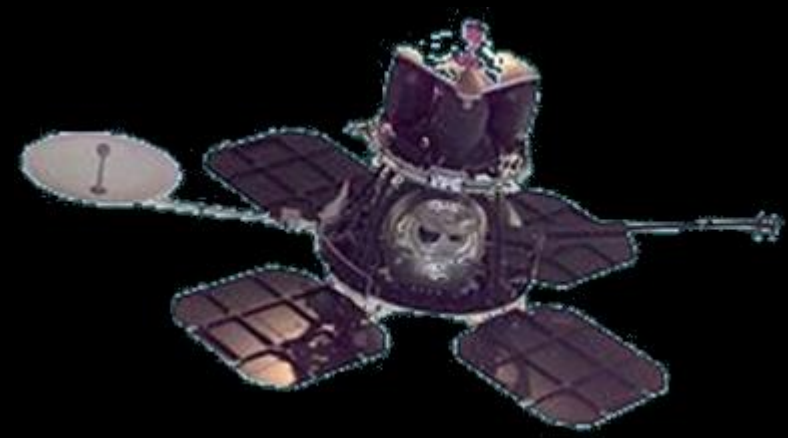


Gemini

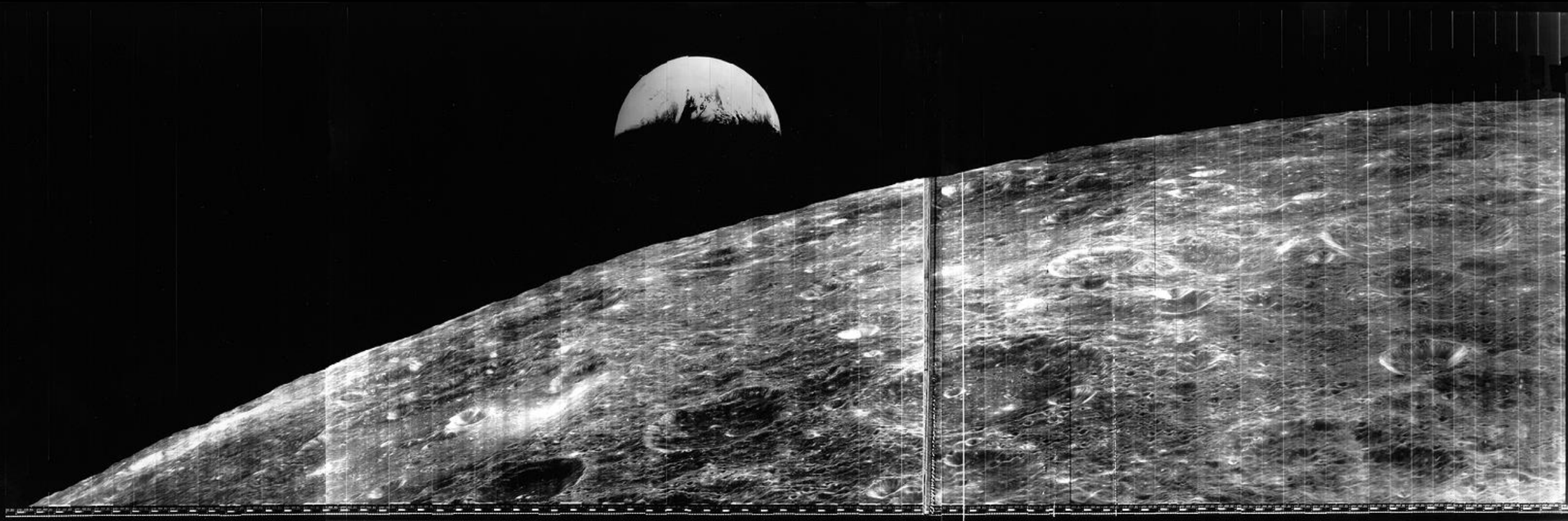
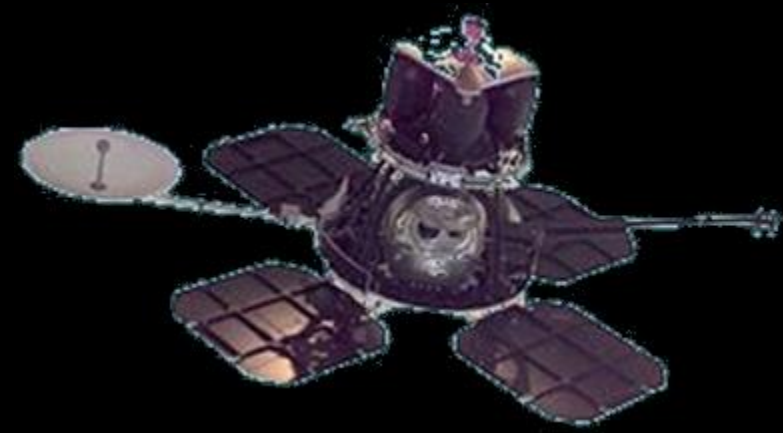
Primeros pasos: Gemini



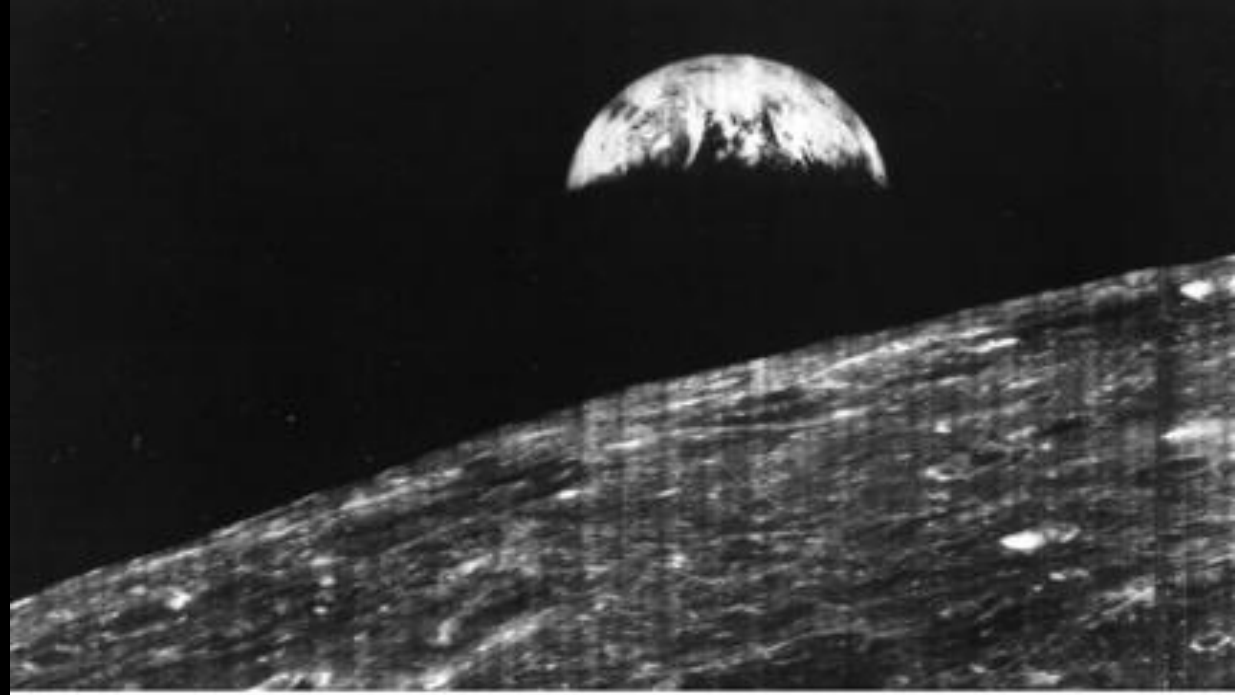
Robots hacia la Luna – Lunar Orbiter



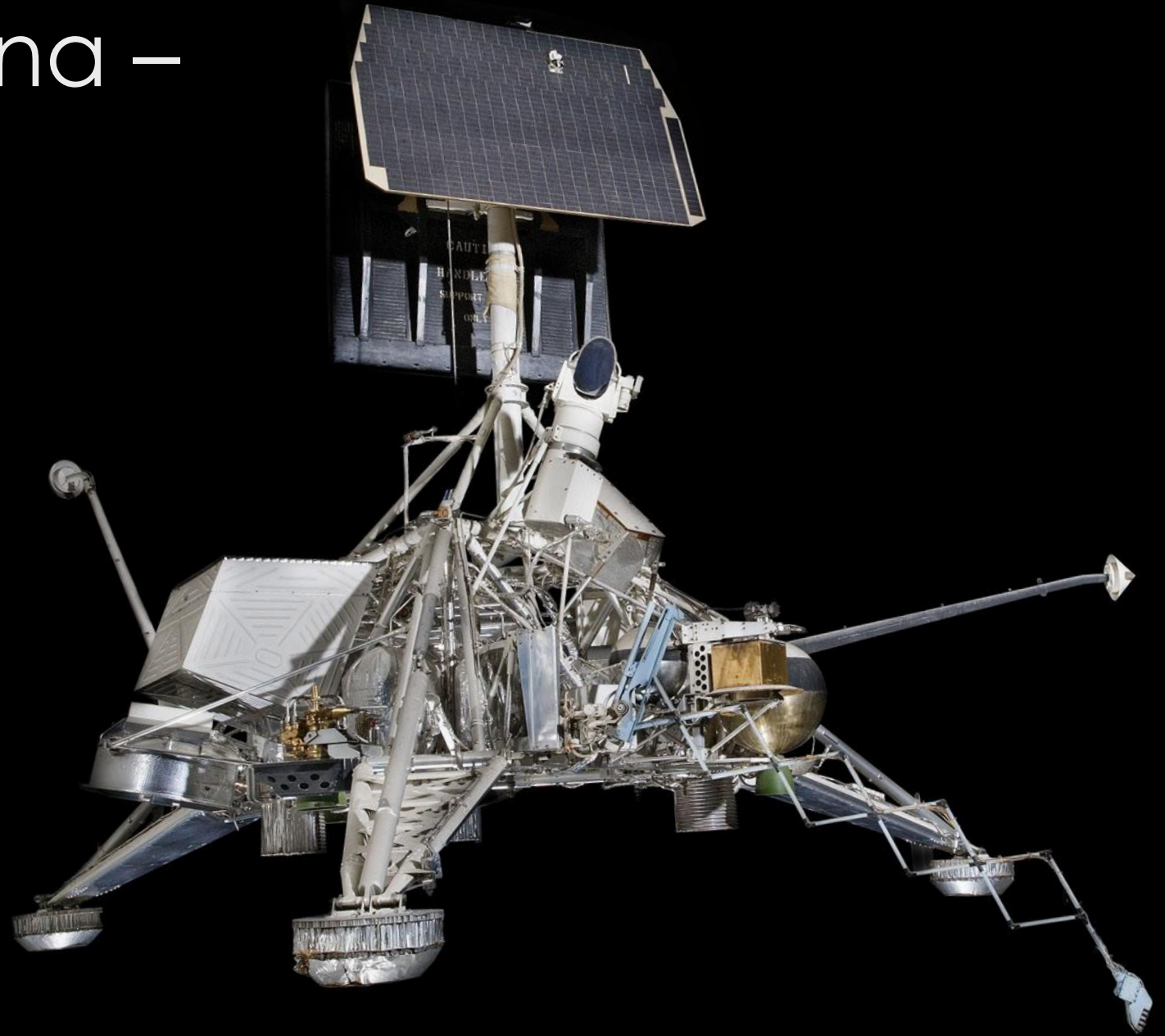
Robots hacia la Luna – Lunar Orbiter



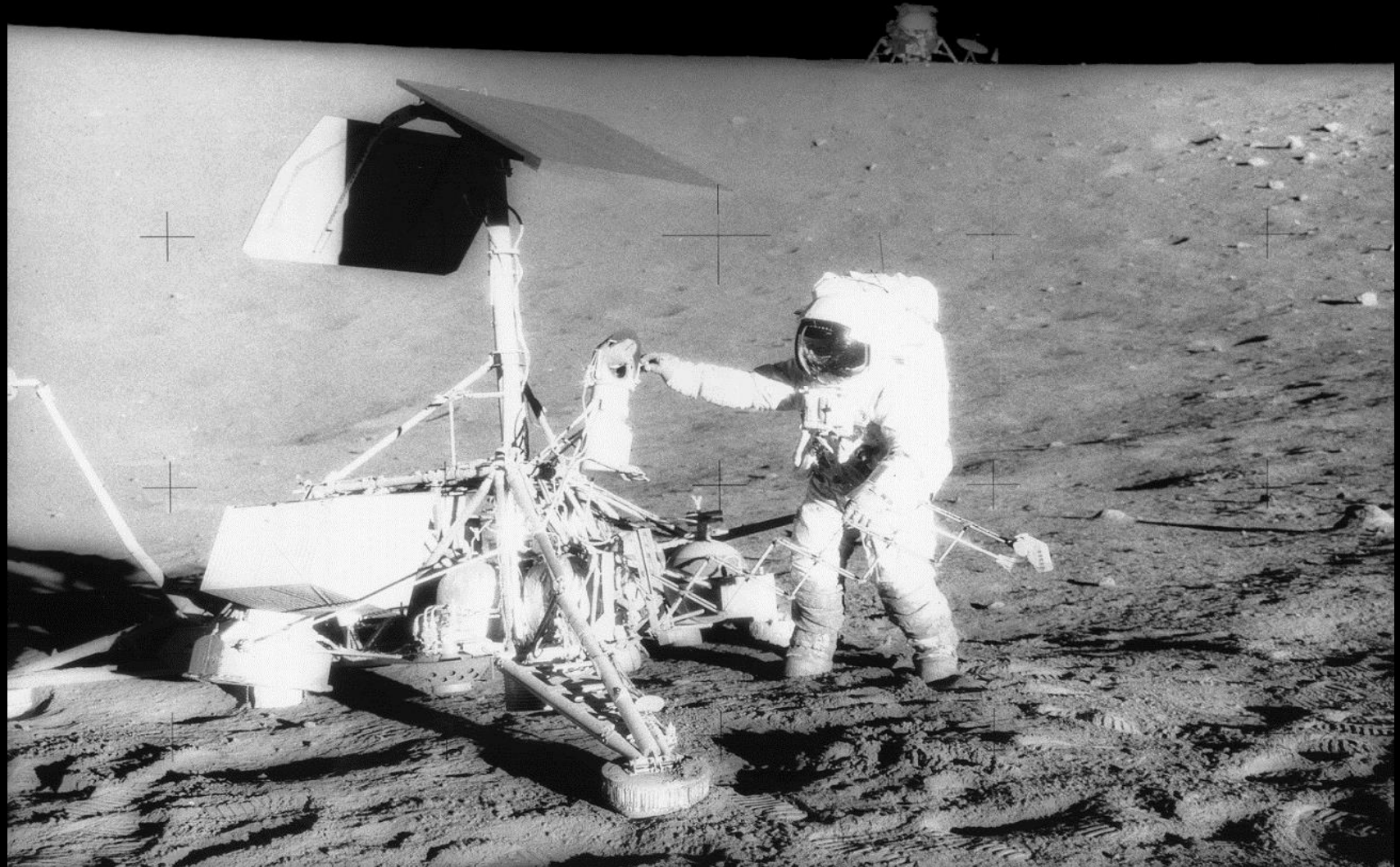
Robots hacia la Luna – Lunar Orbiter



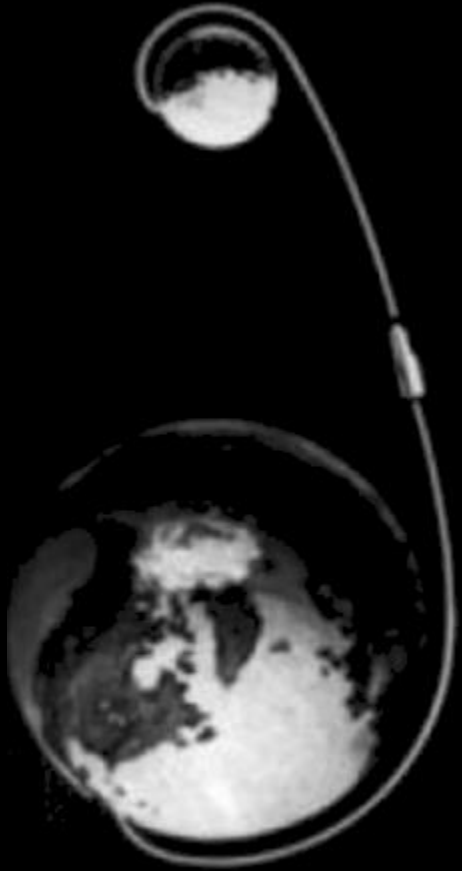
Robots hacia la Luna – Surveyor



Robots hacia la Luna – Surveyor

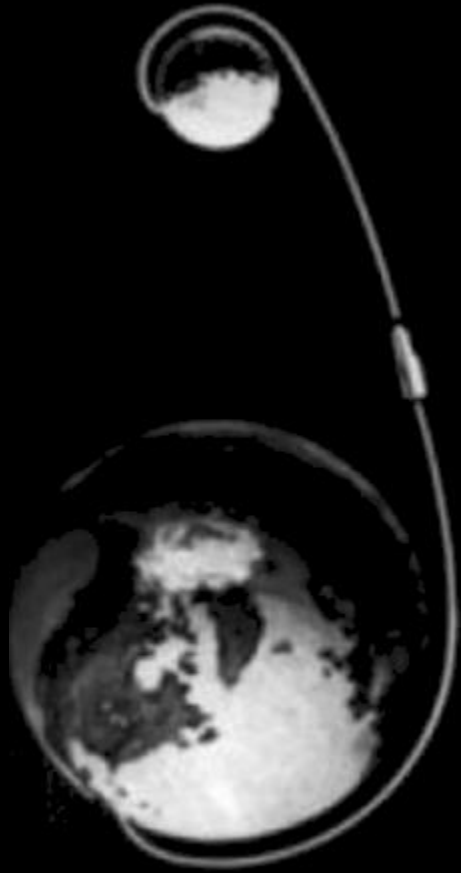


Cómo ir a la Luna

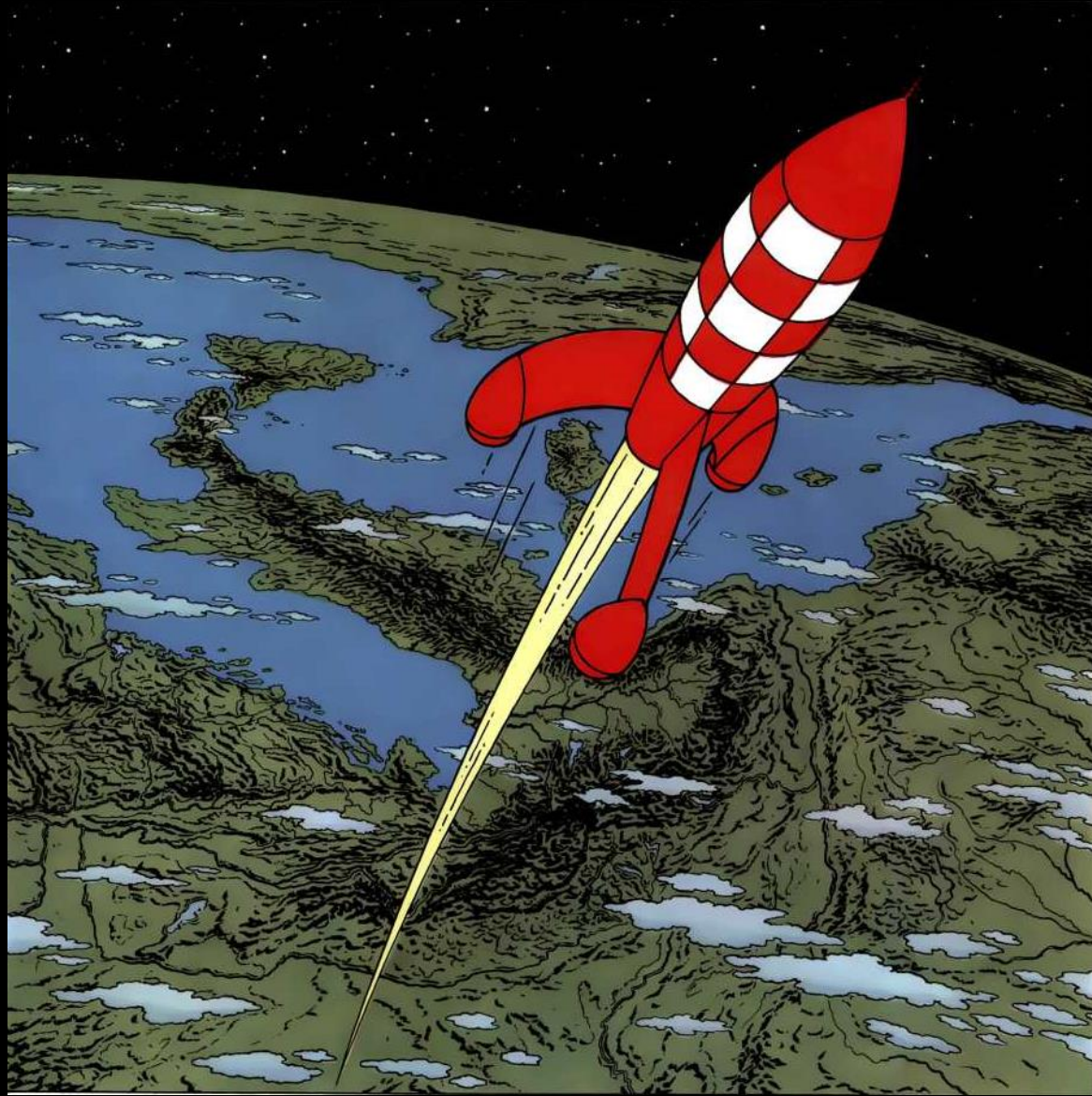


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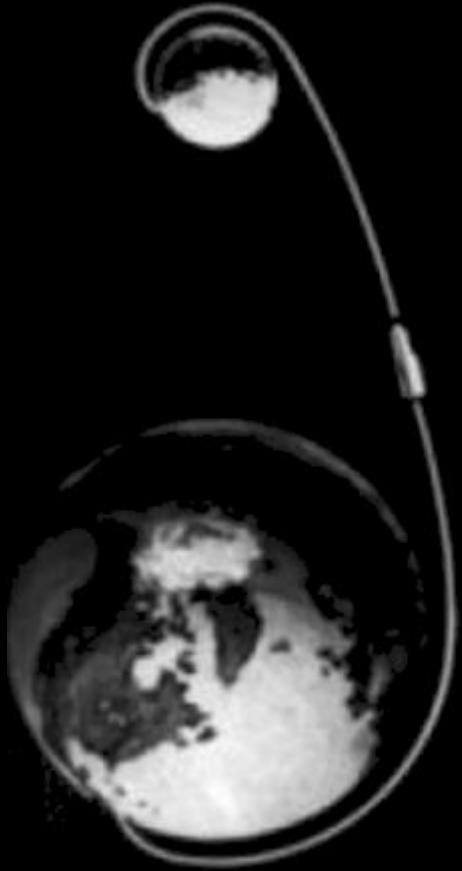
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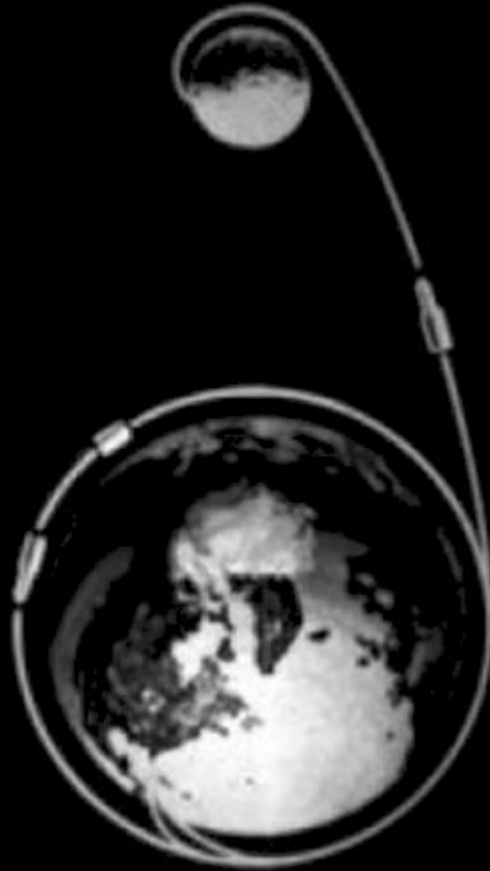
DIRECT



Cómo ir a la Luna

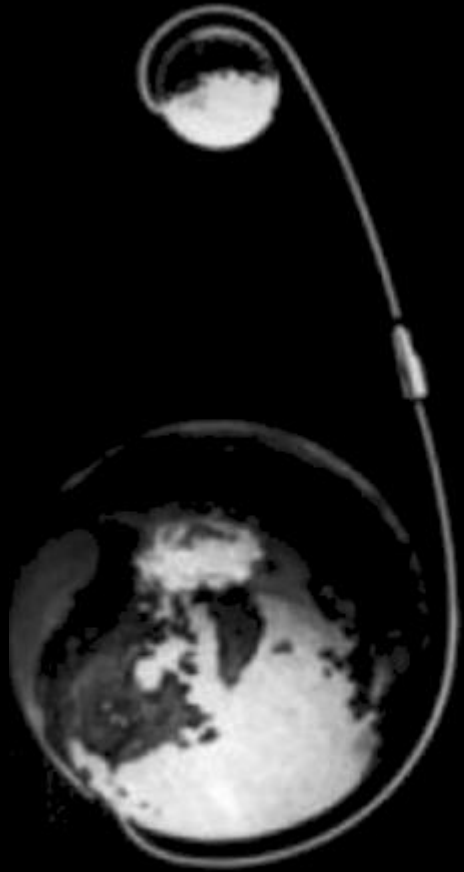


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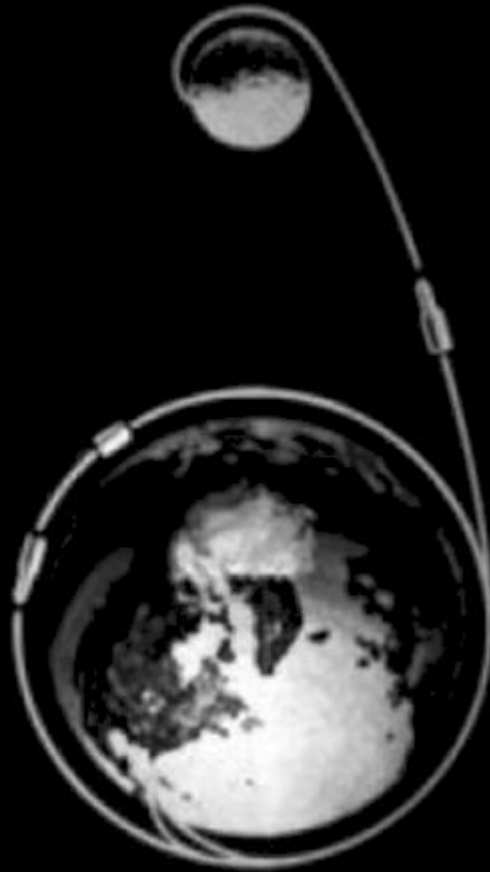


**EARTH ORBIT
RENDEZVOUS**

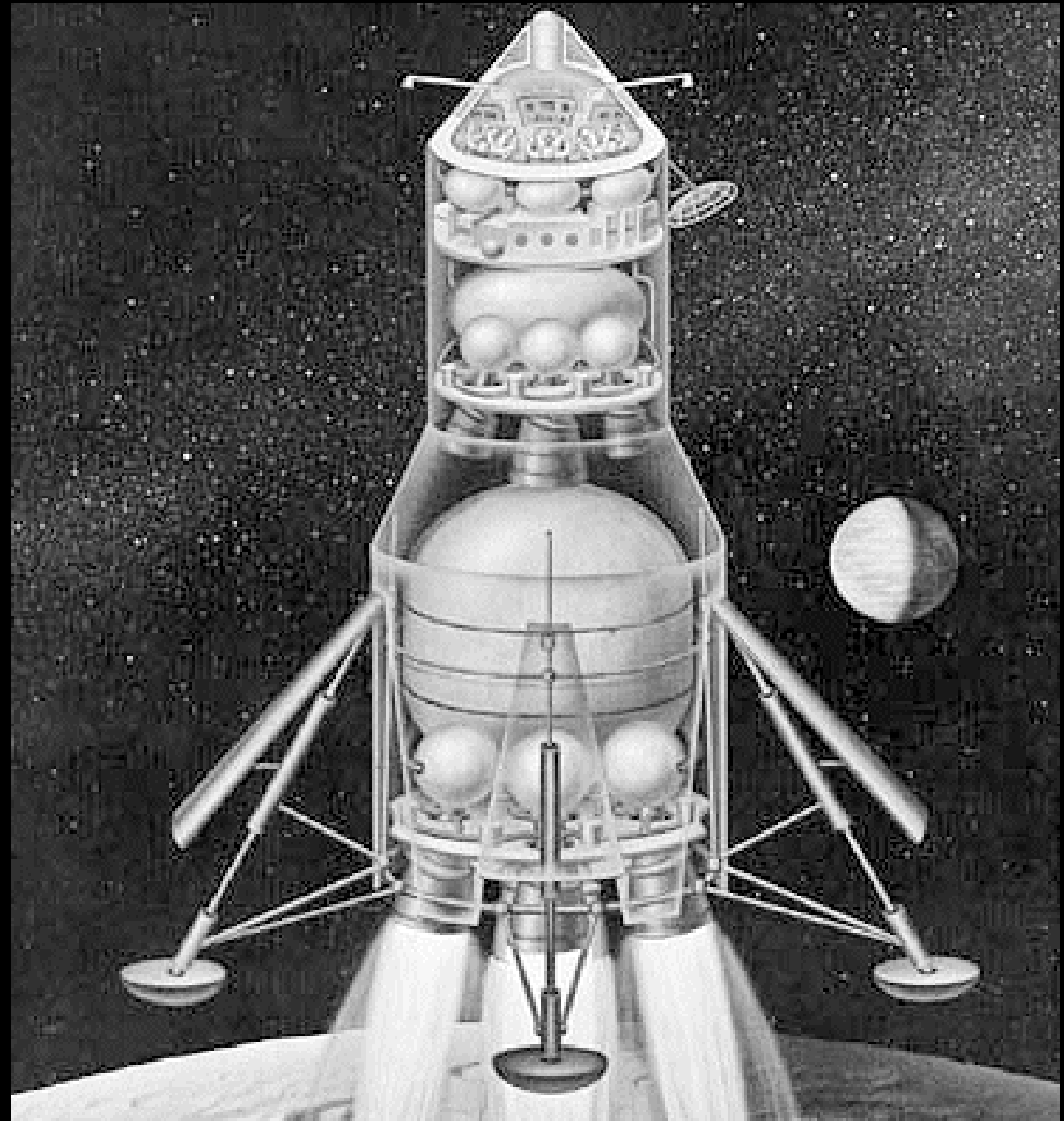
Cómo ir a la Luna



DIRECT



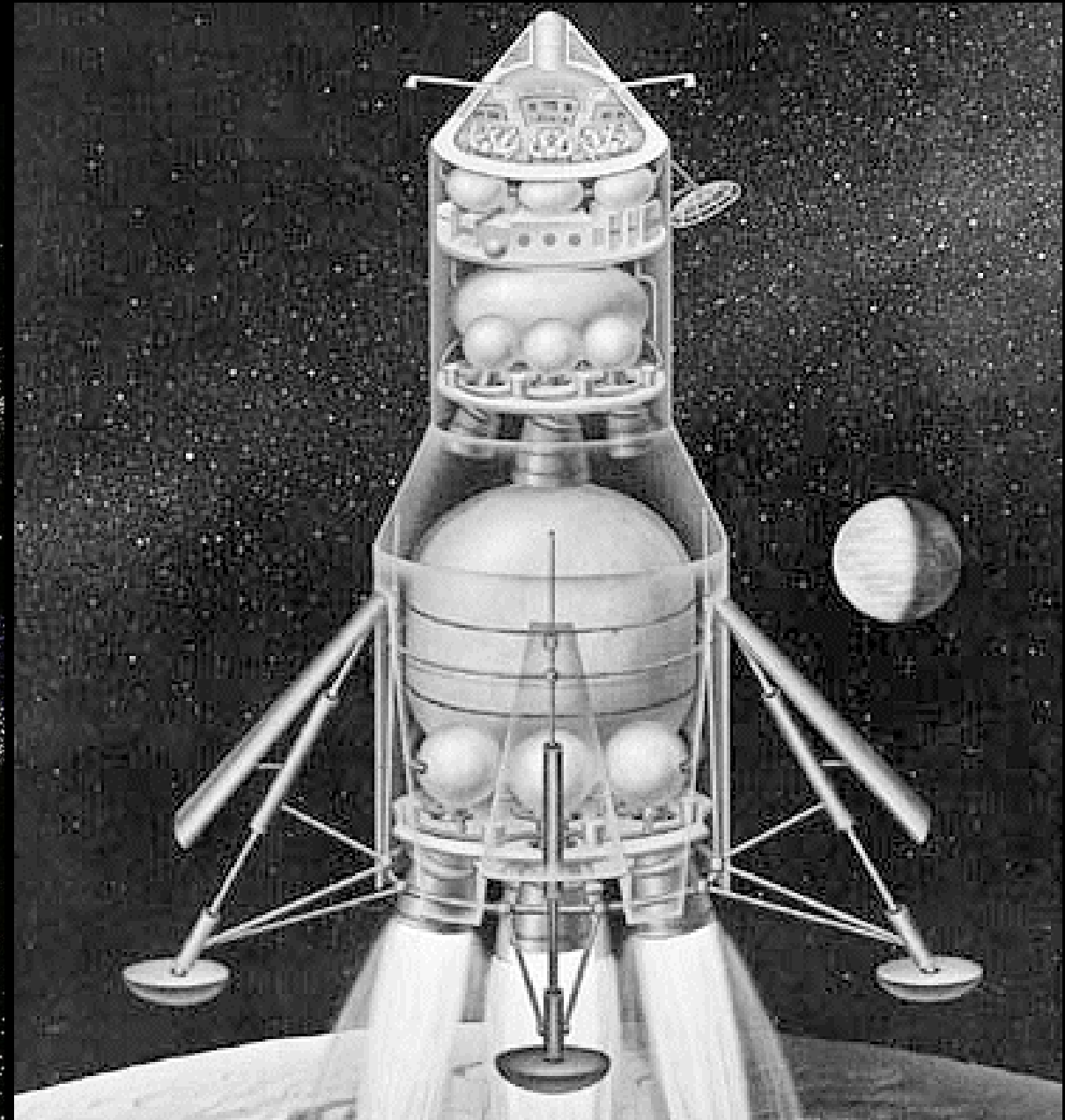
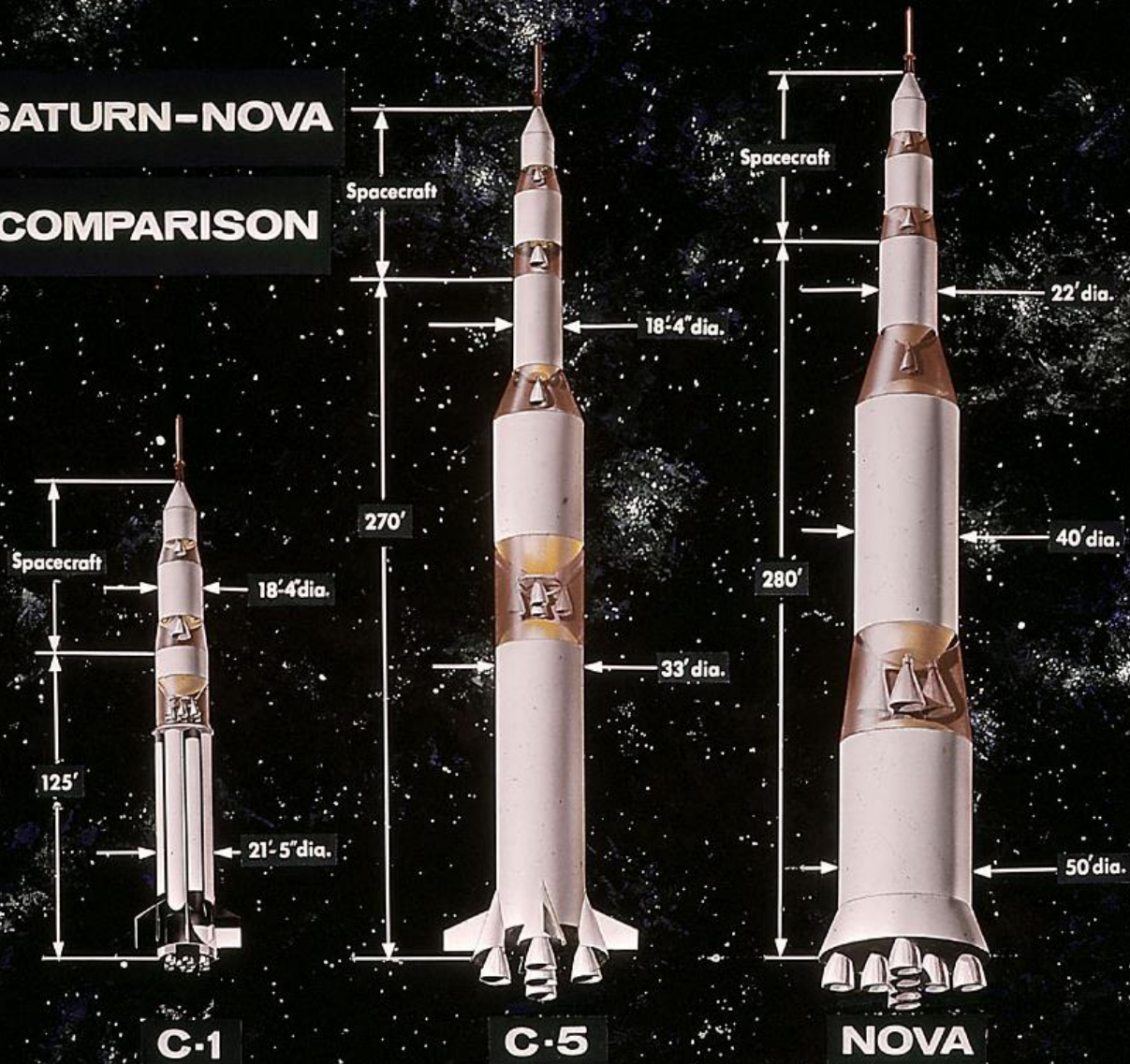
**EARTH ORBIT
RENDEZVOUS**



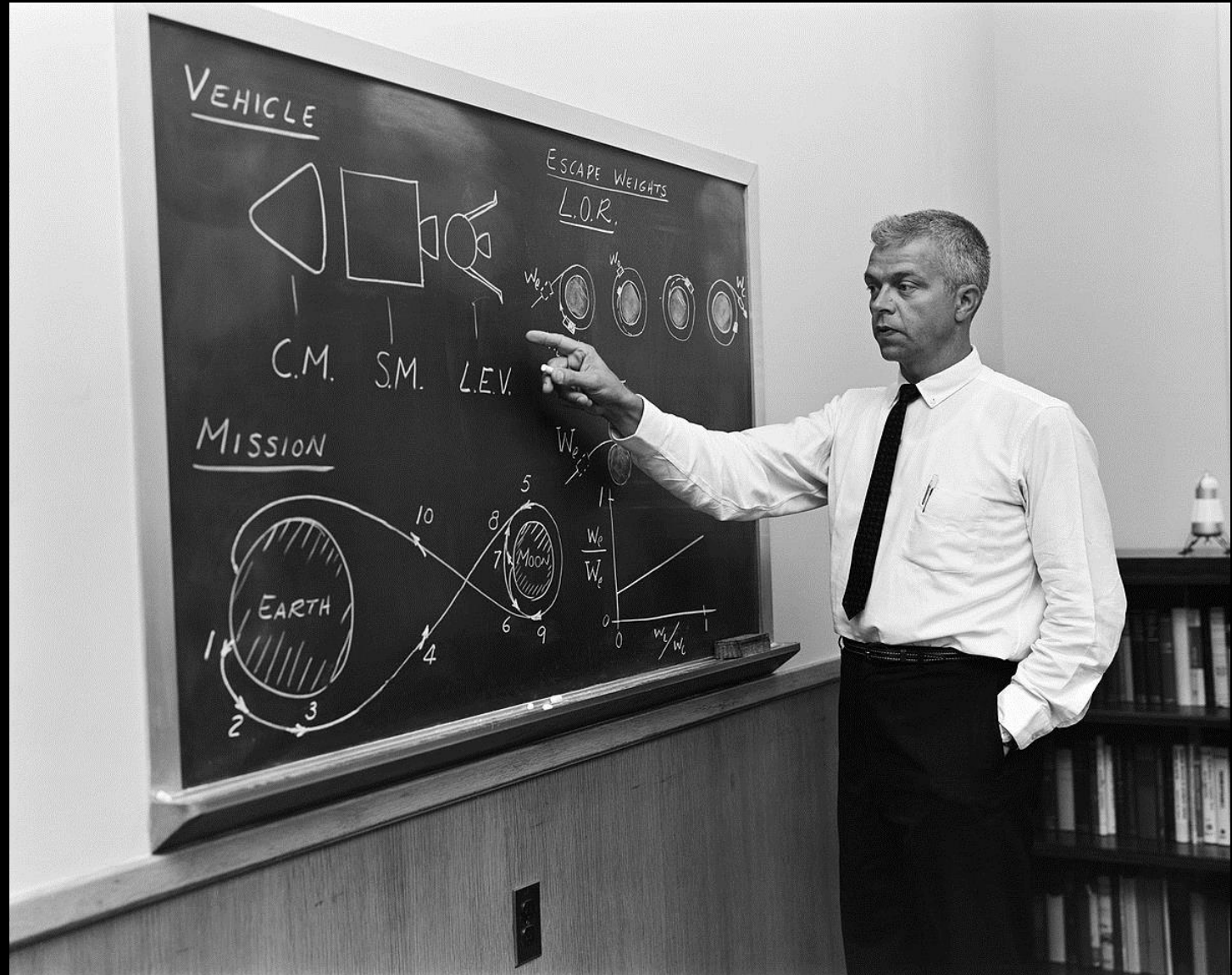
Cómo ir a la Luna

SATURN-NOVA

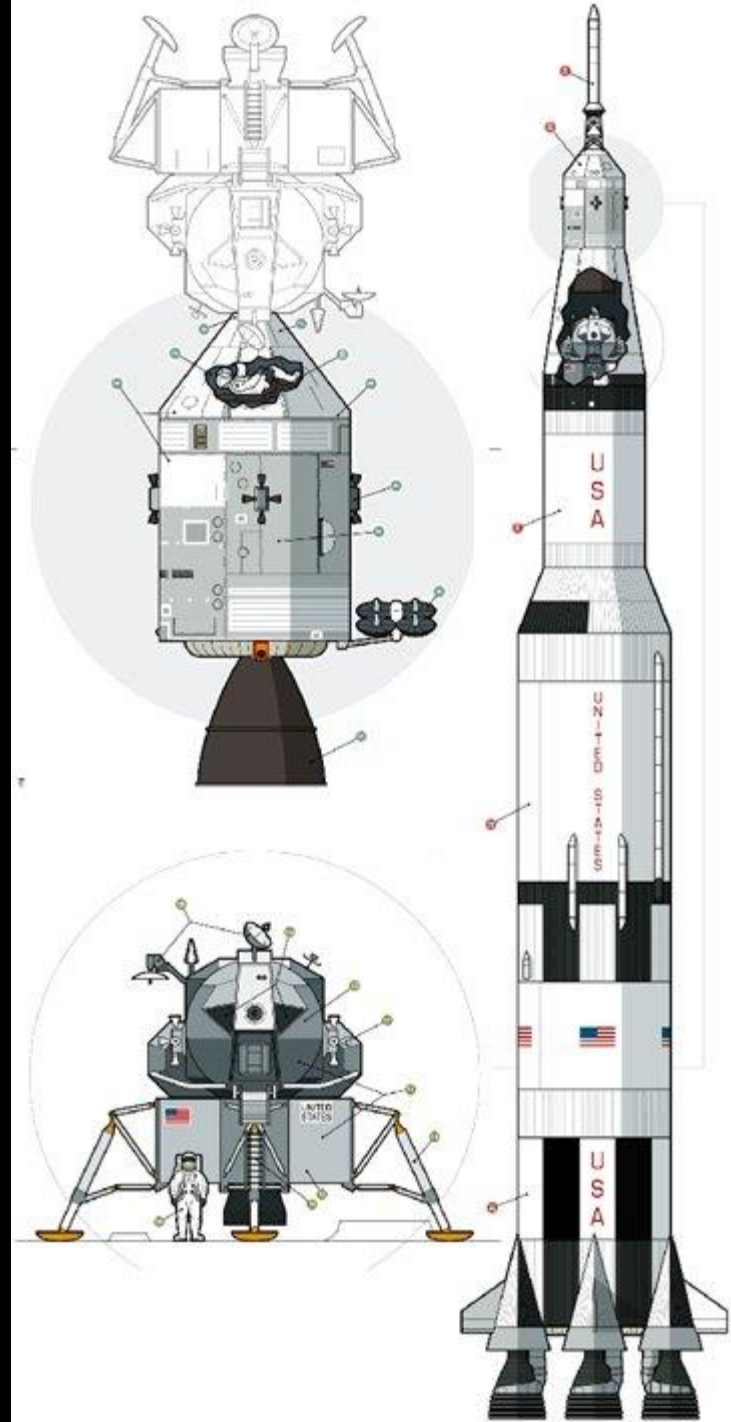
COMPARISON



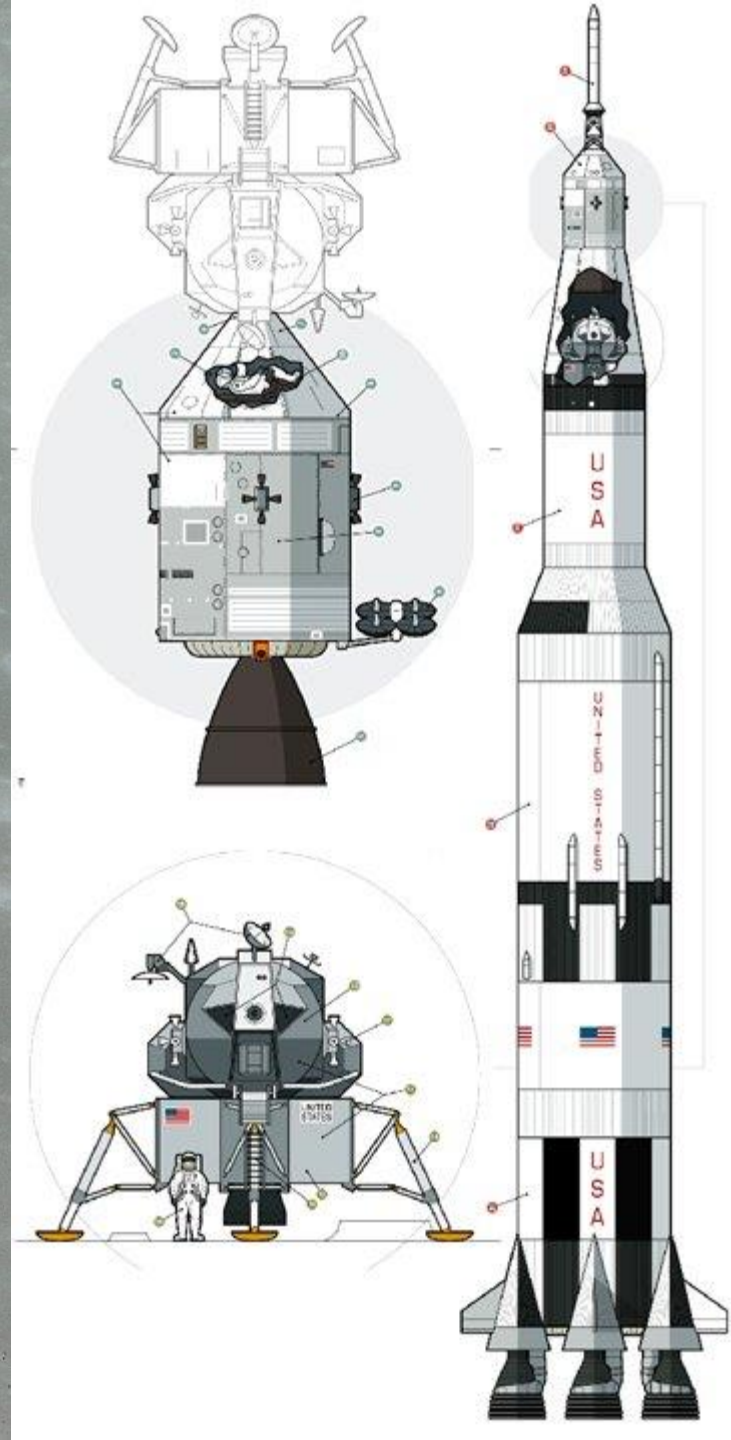
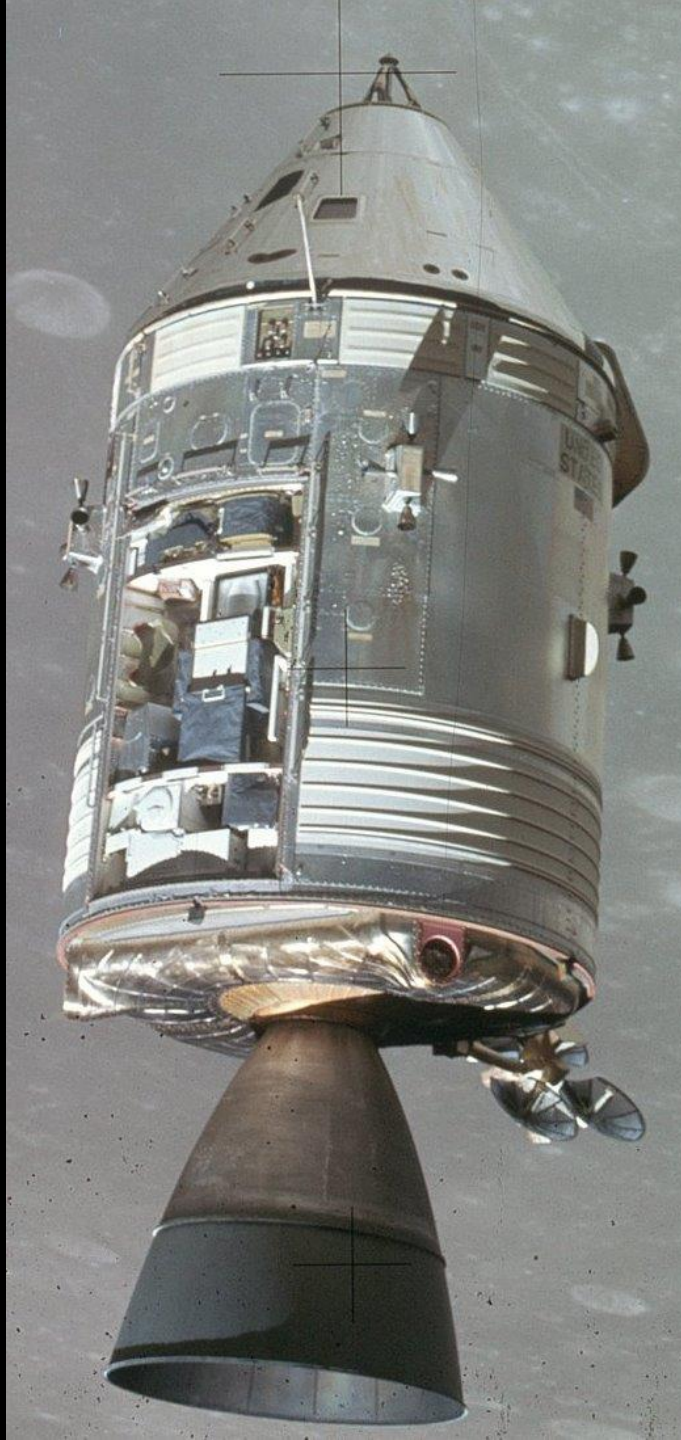
Cómo ir a la Luna



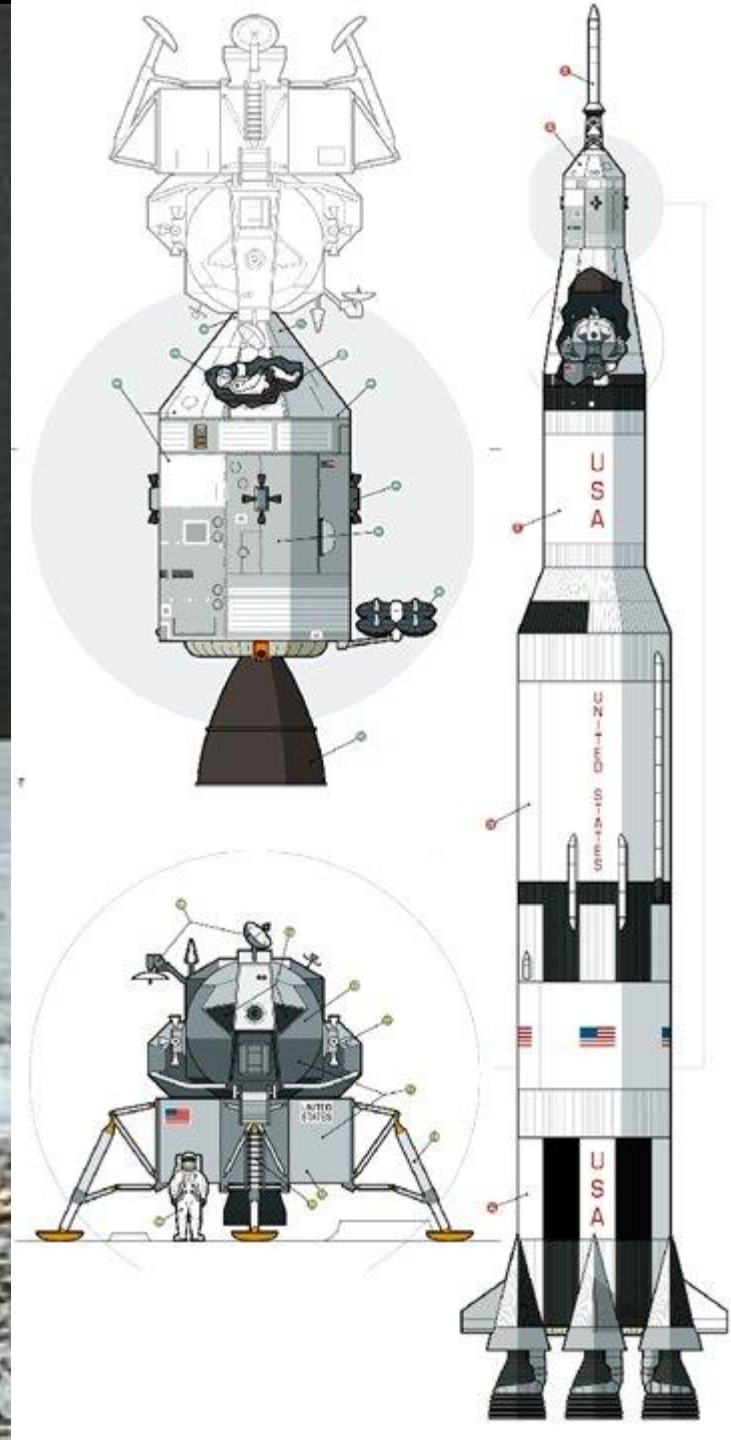
La nave



La nave



La nave



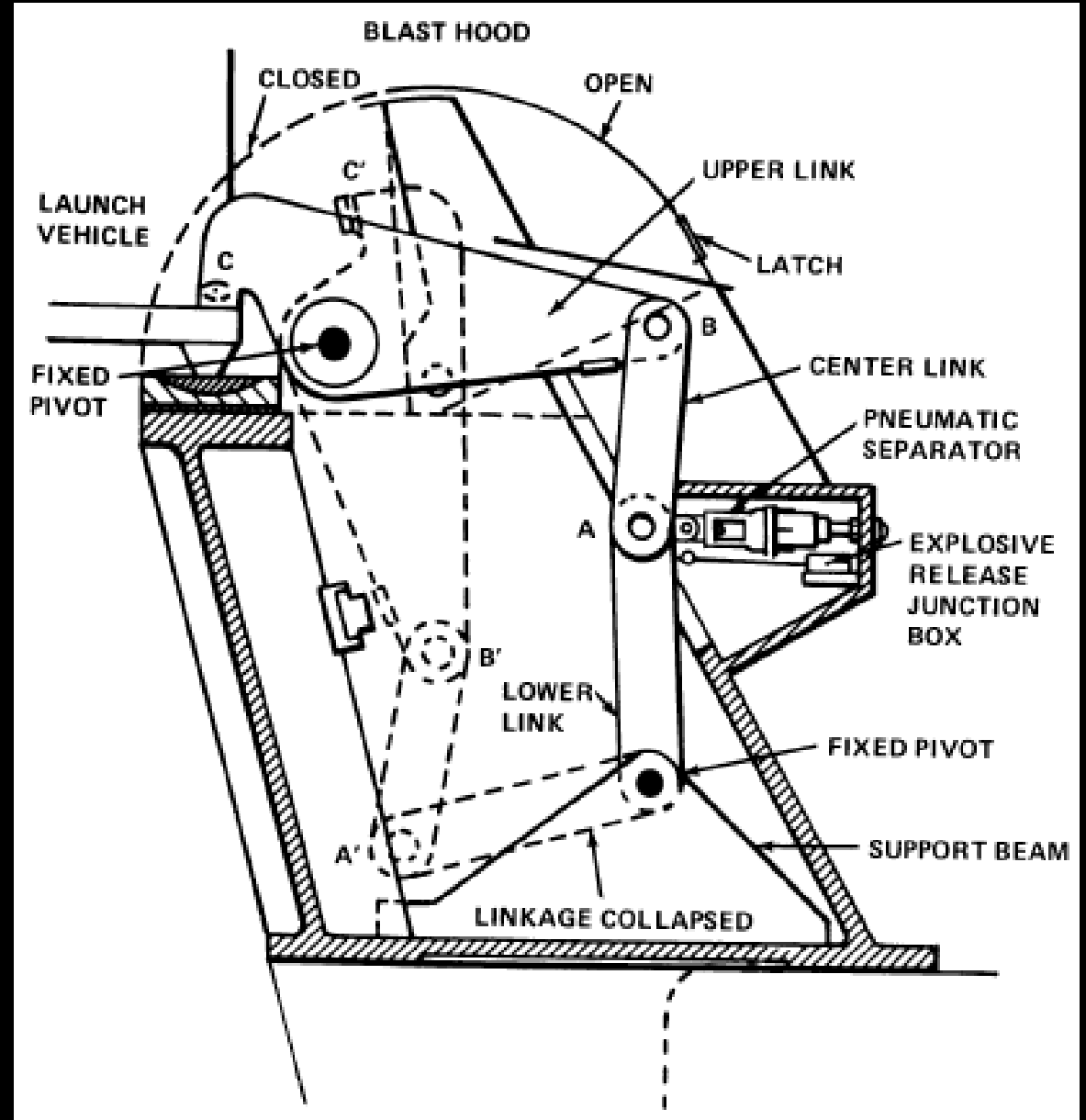
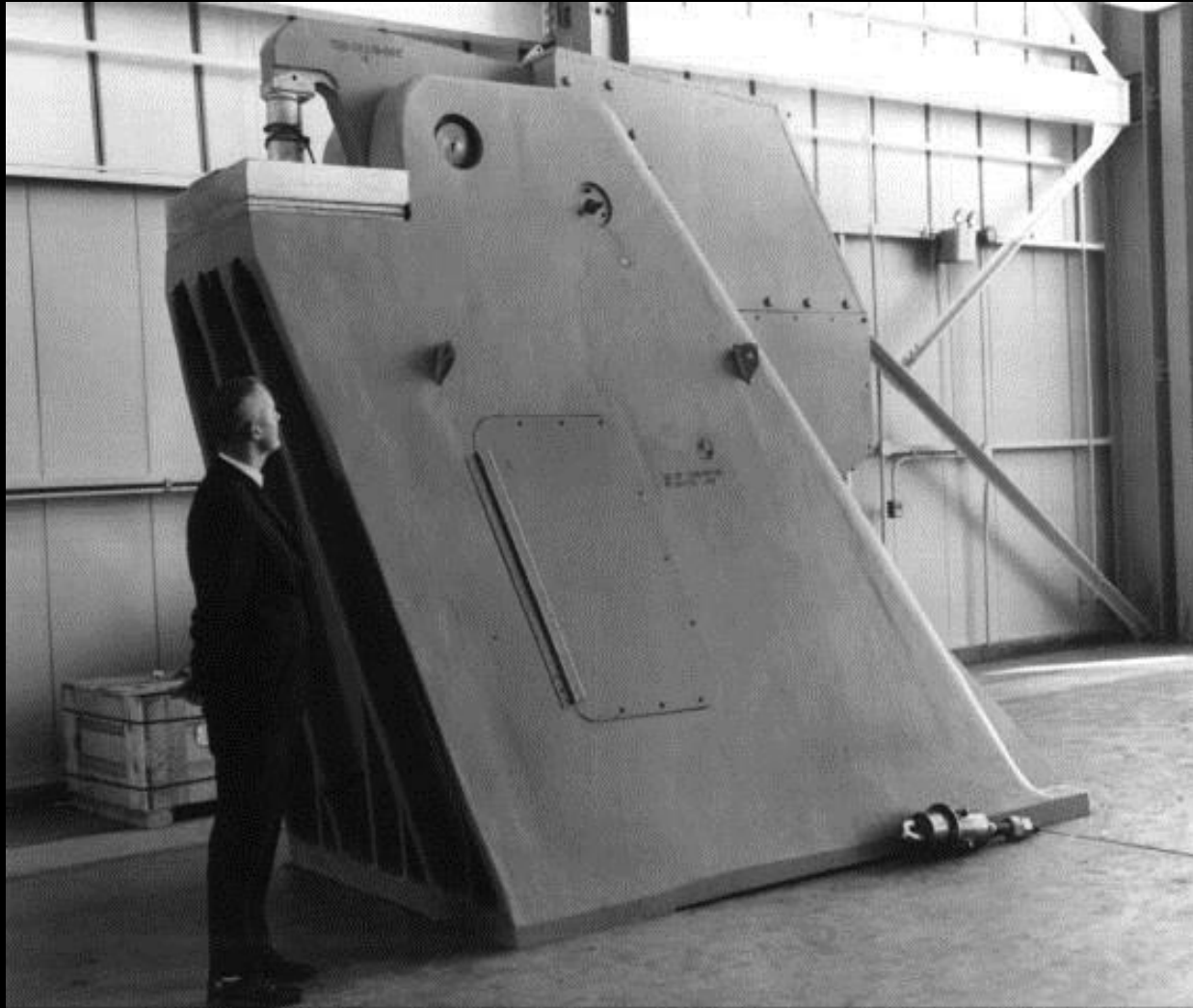
El cohete – Saturn 5



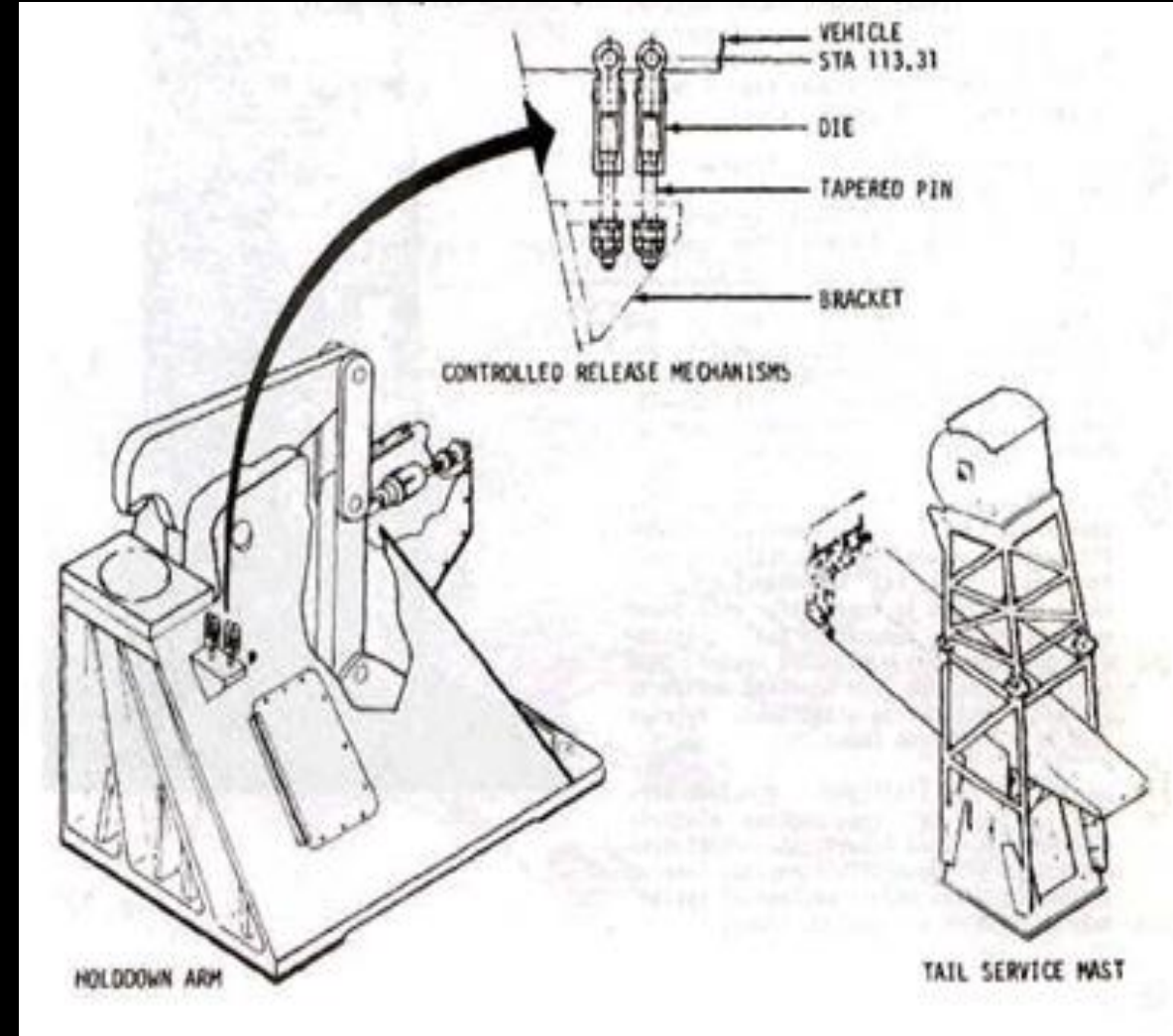
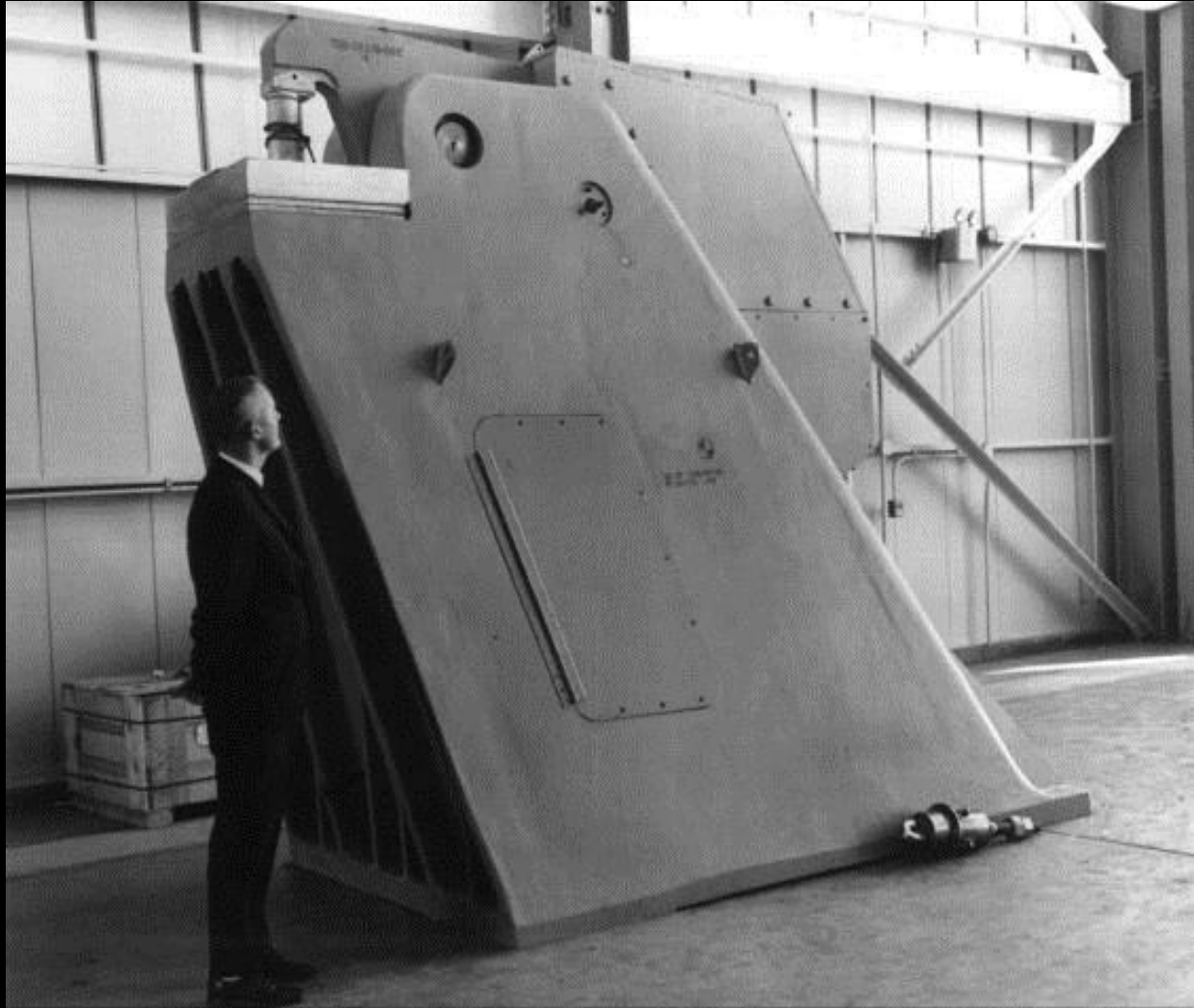
El cohete – Saturn 5



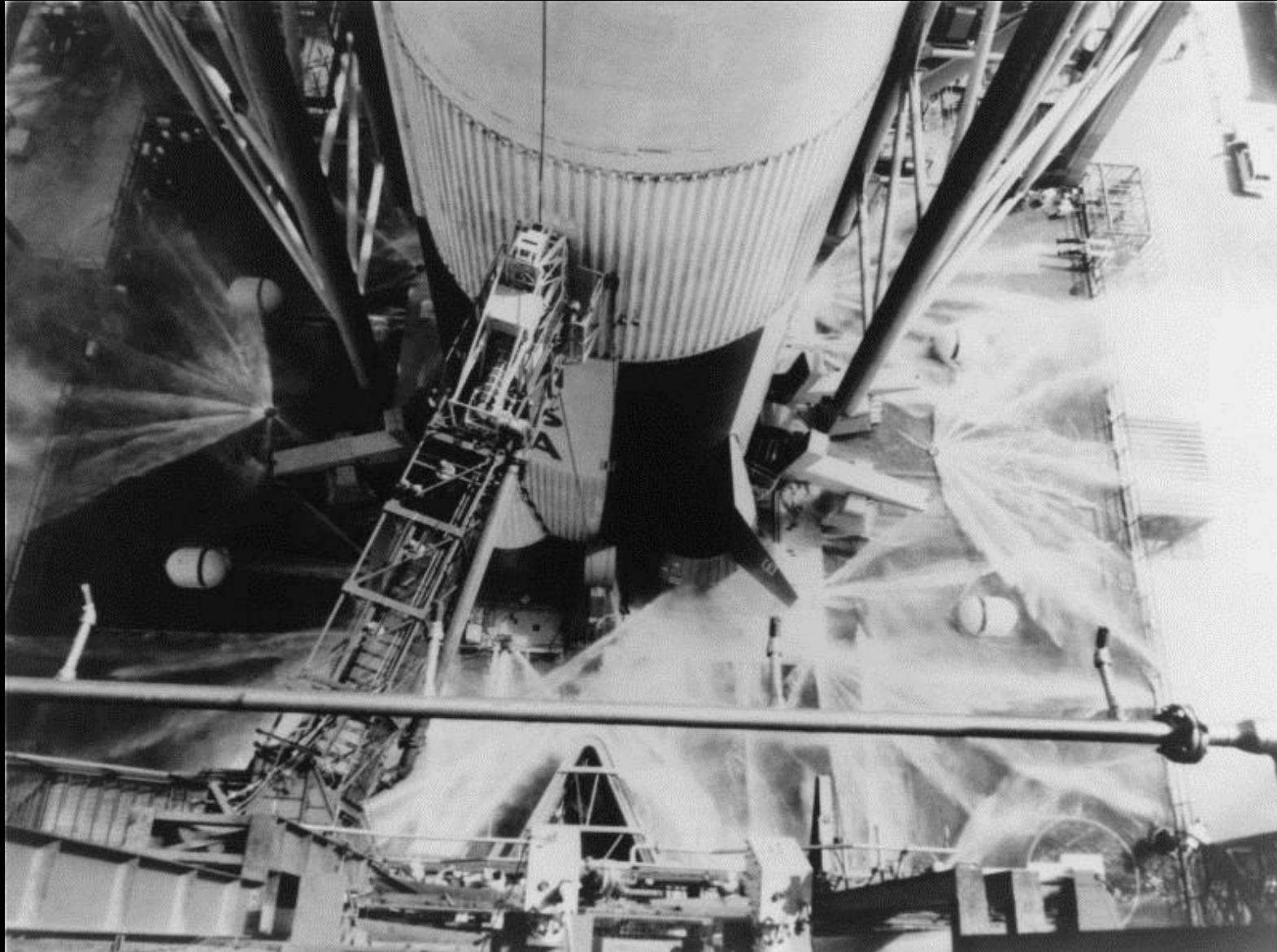
El cohete – Saturn 5



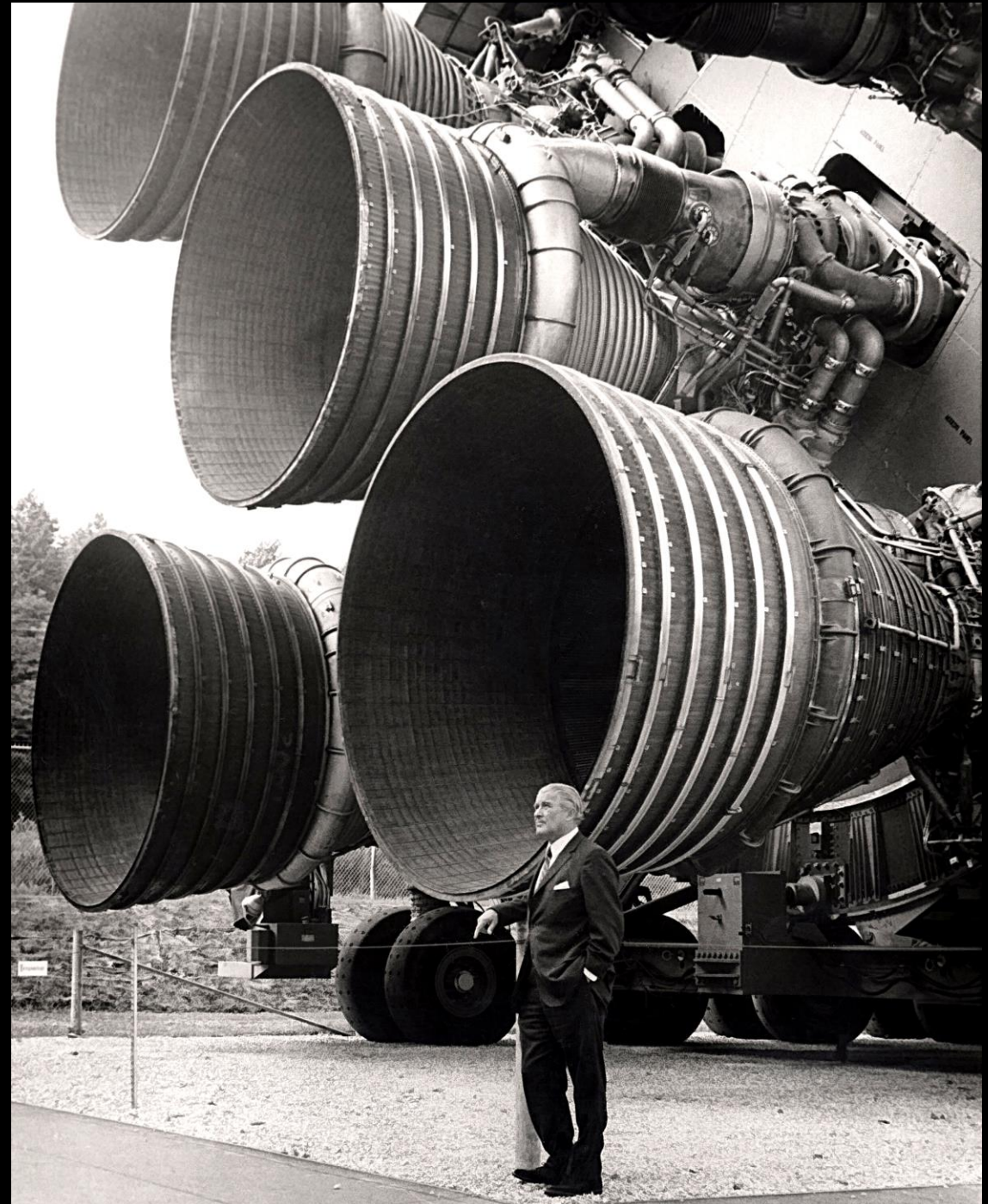
El cohete – Saturn 5



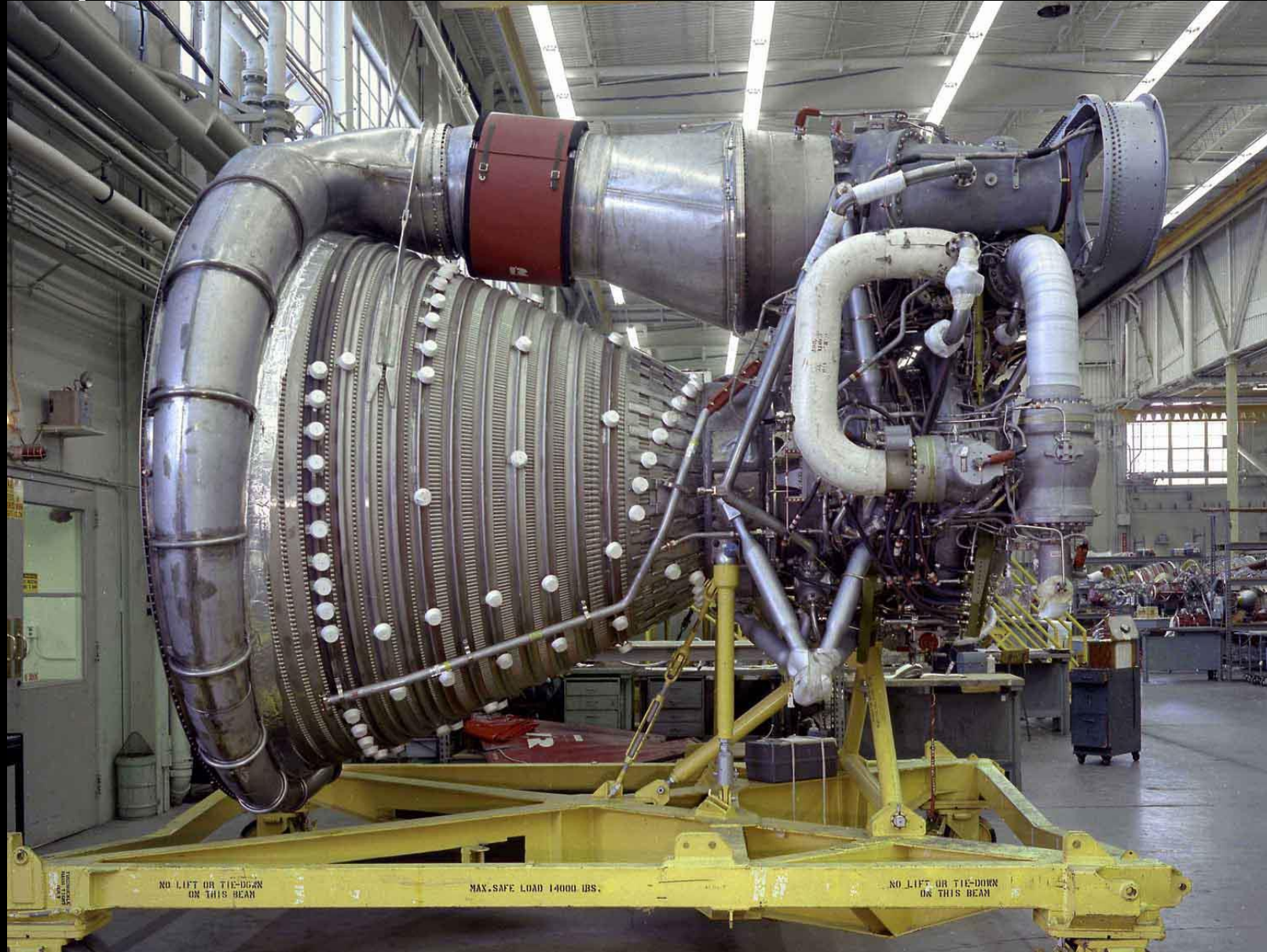
El cohete – Saturn 5



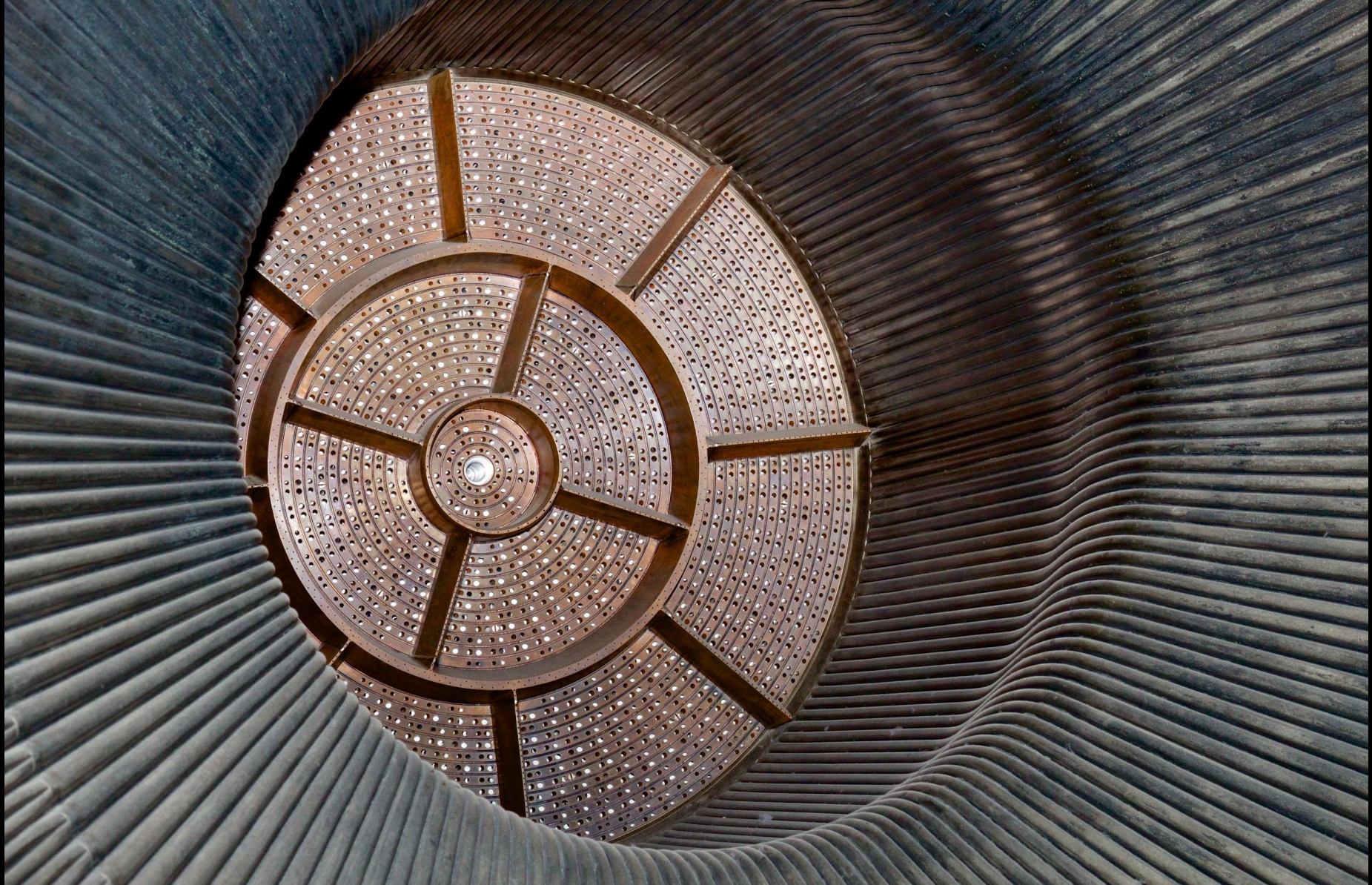
El motor Rocketdyne F1



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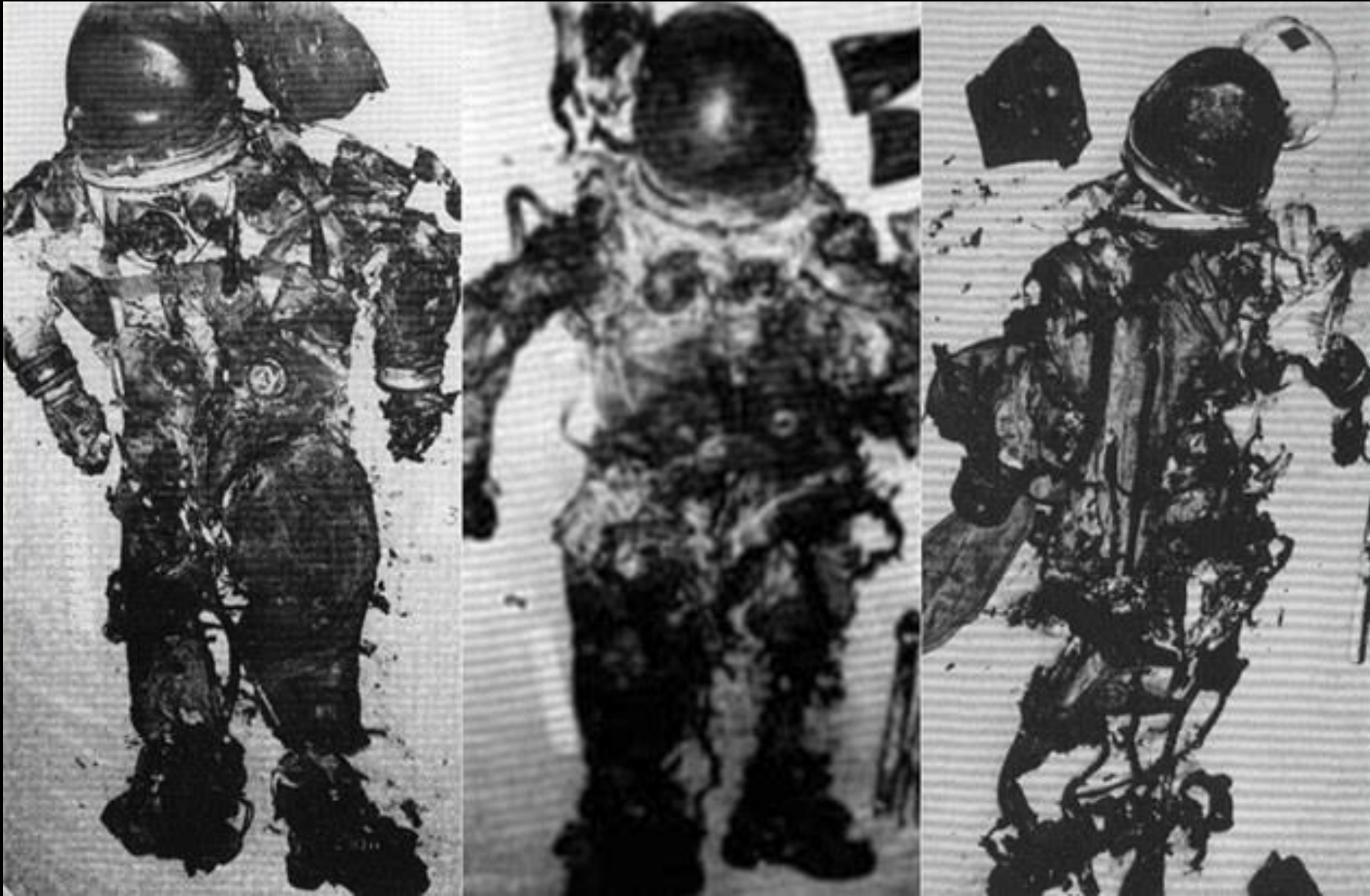
El motor Rocketdyne F1



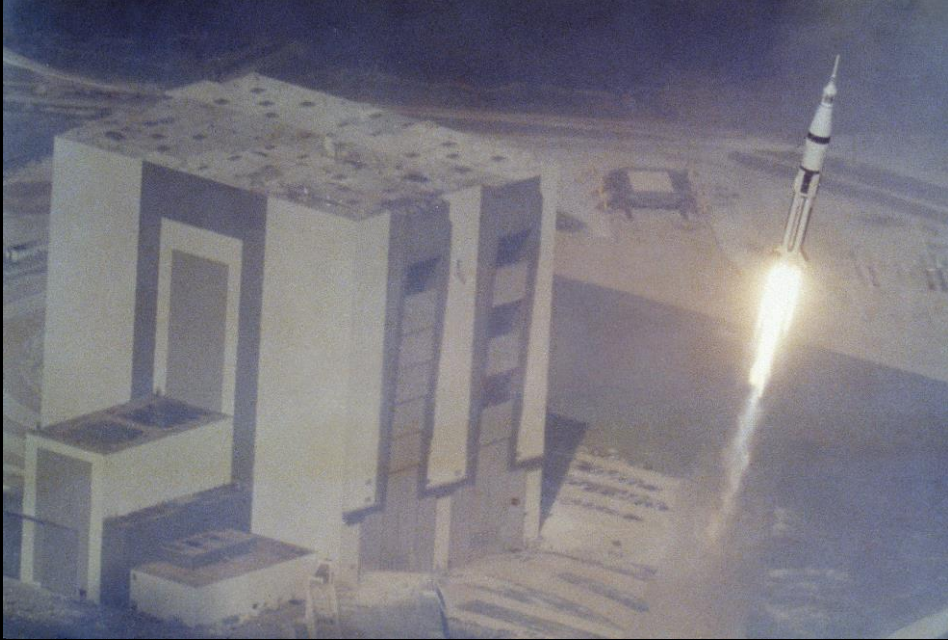
1967 - Hacia la Luna



1967 - Hacia la Luna



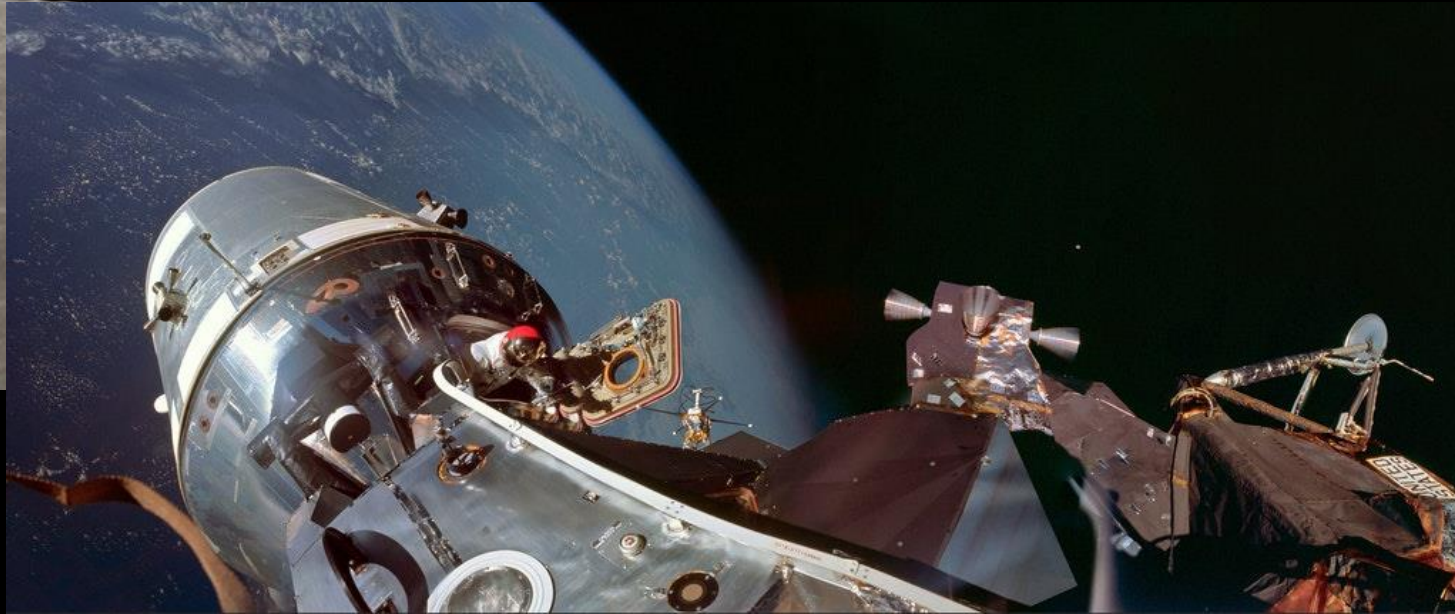
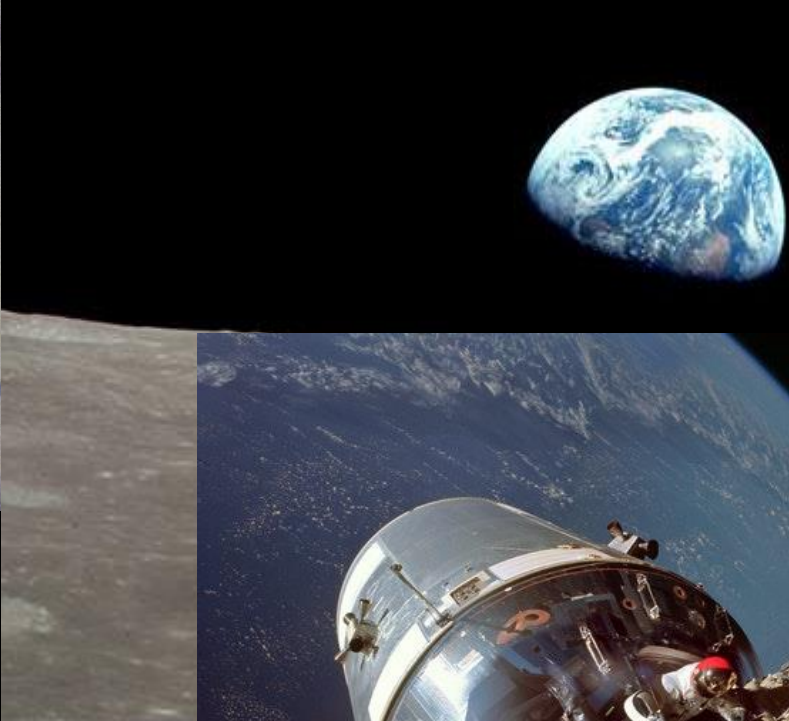
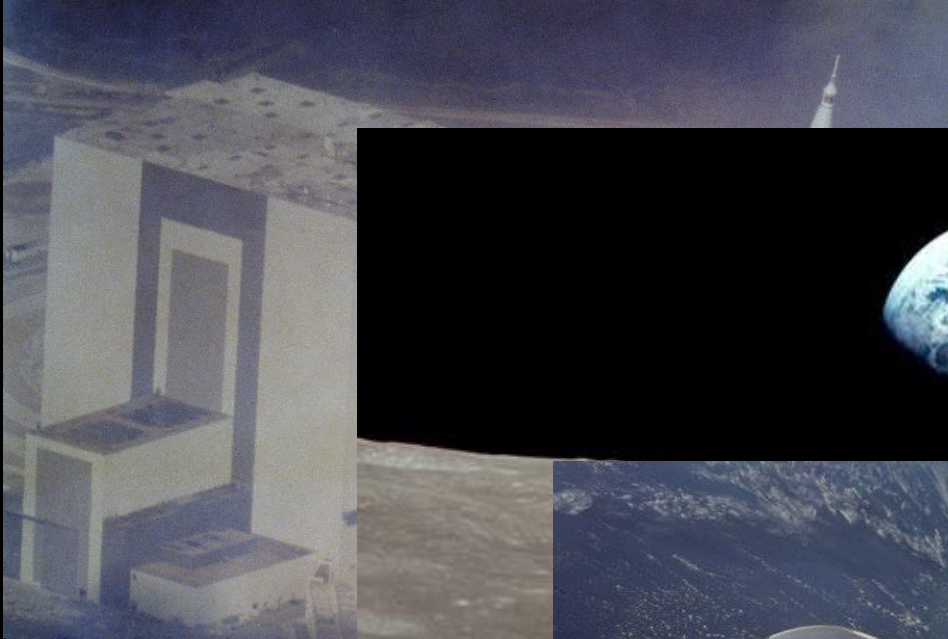
1968 - Hacia la Luna



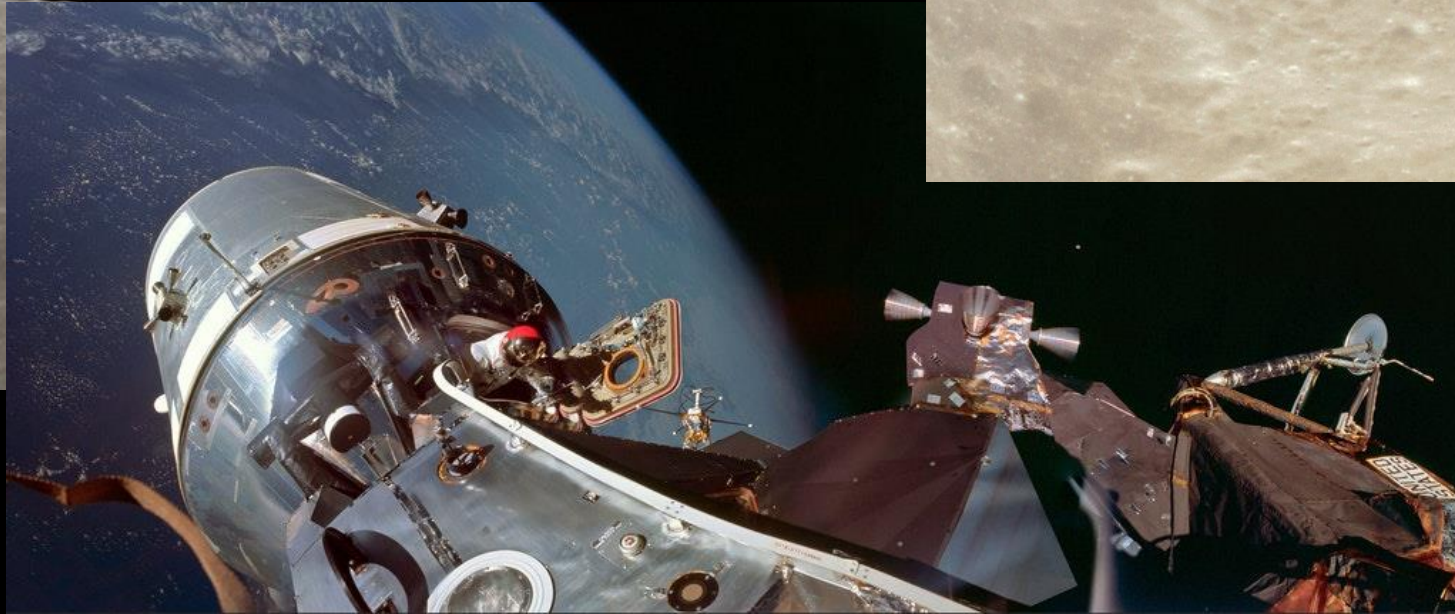
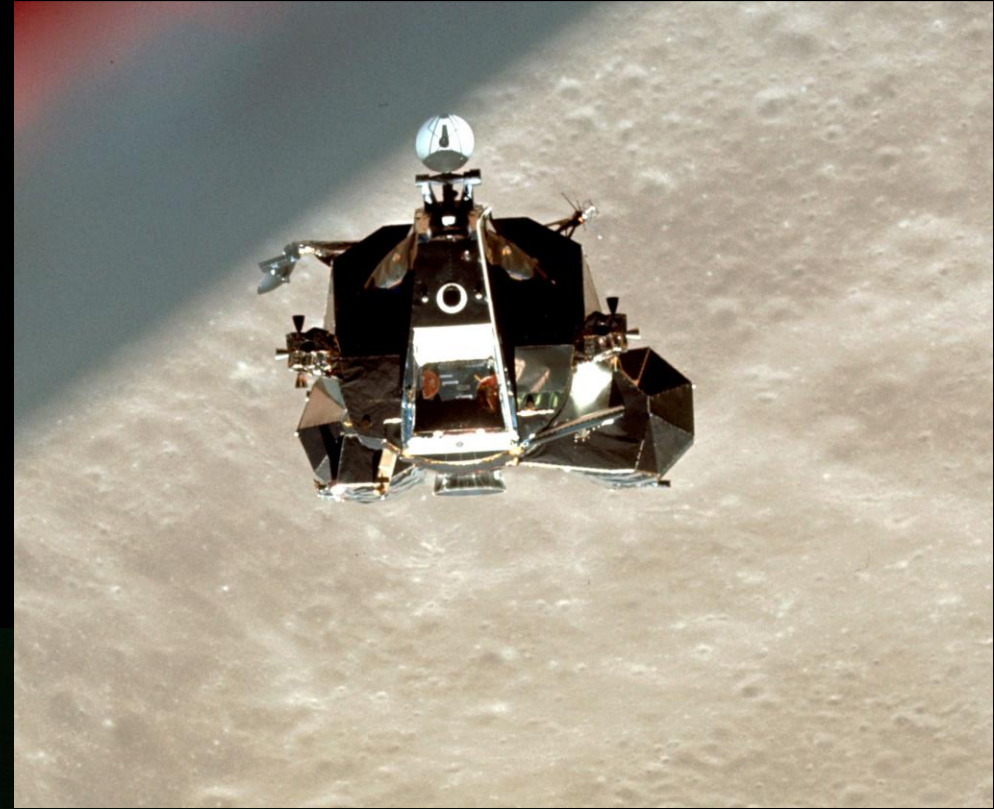
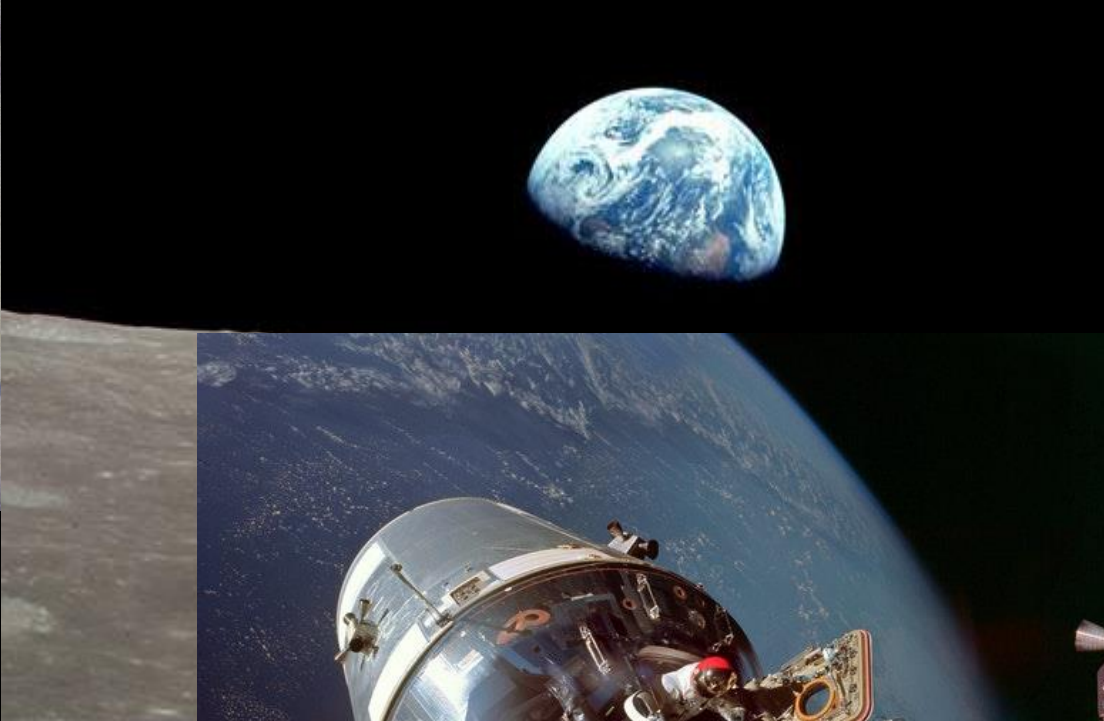
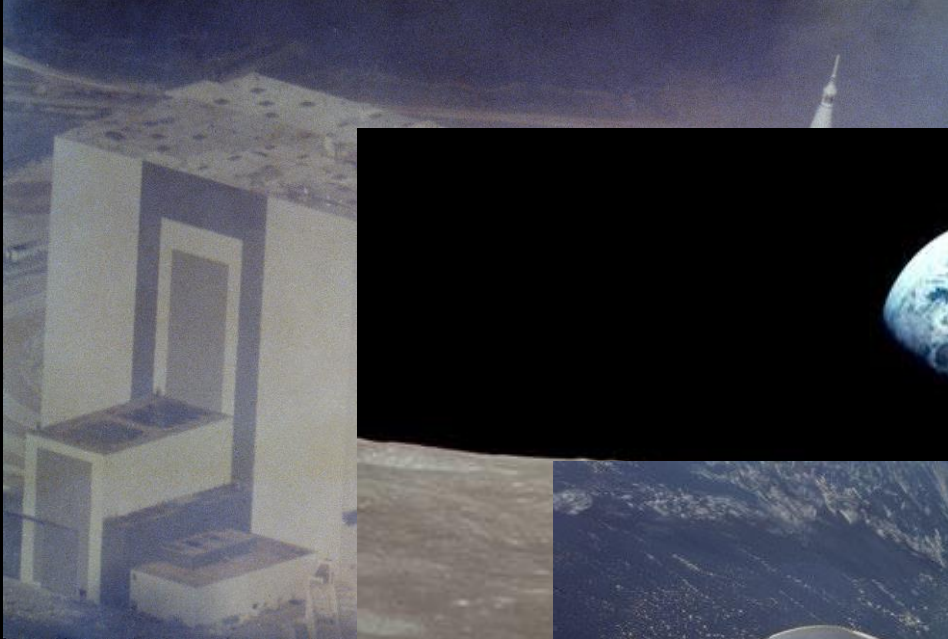
1968 - Hacia la Luna



1969 - Hacia la Luna



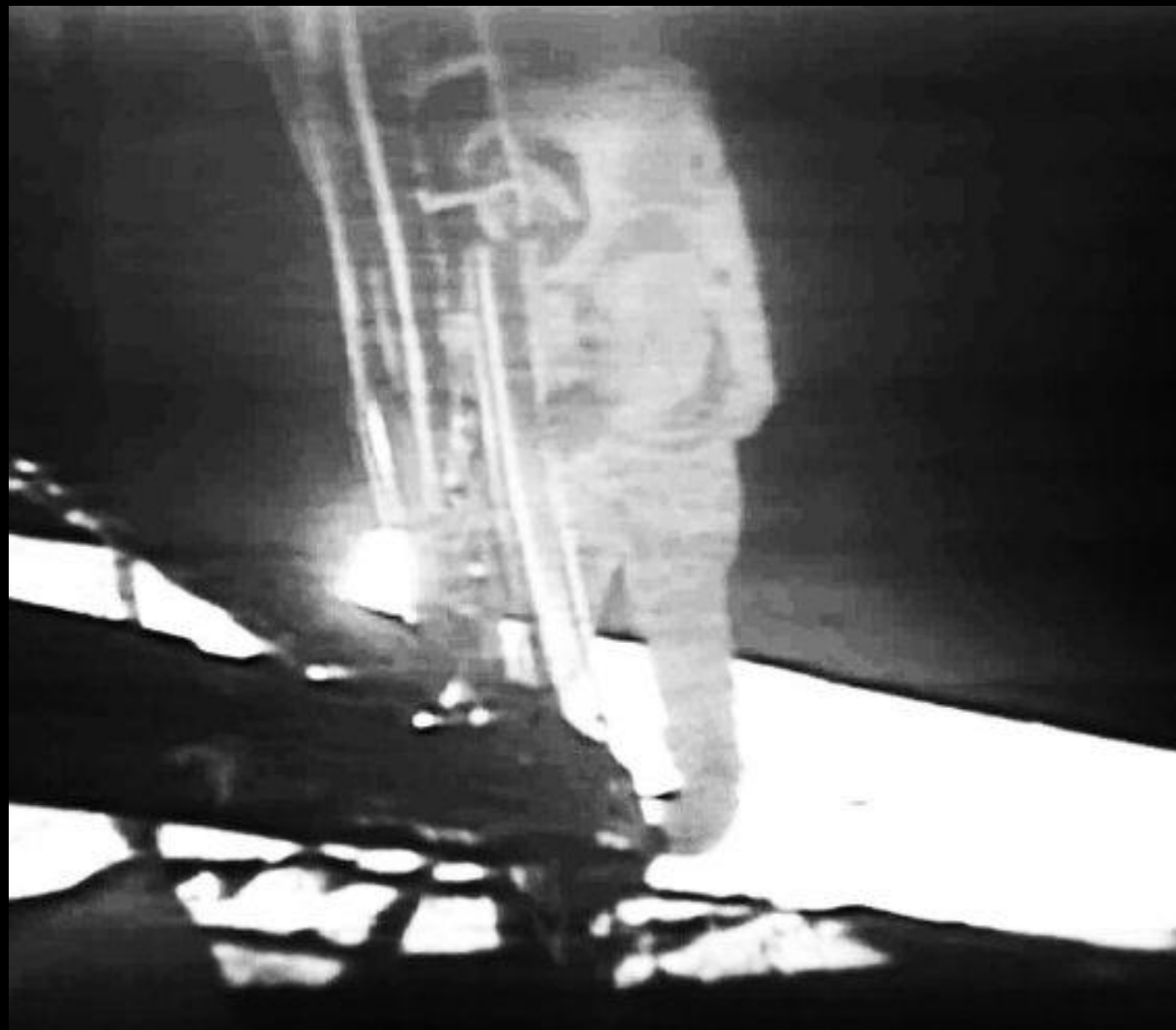
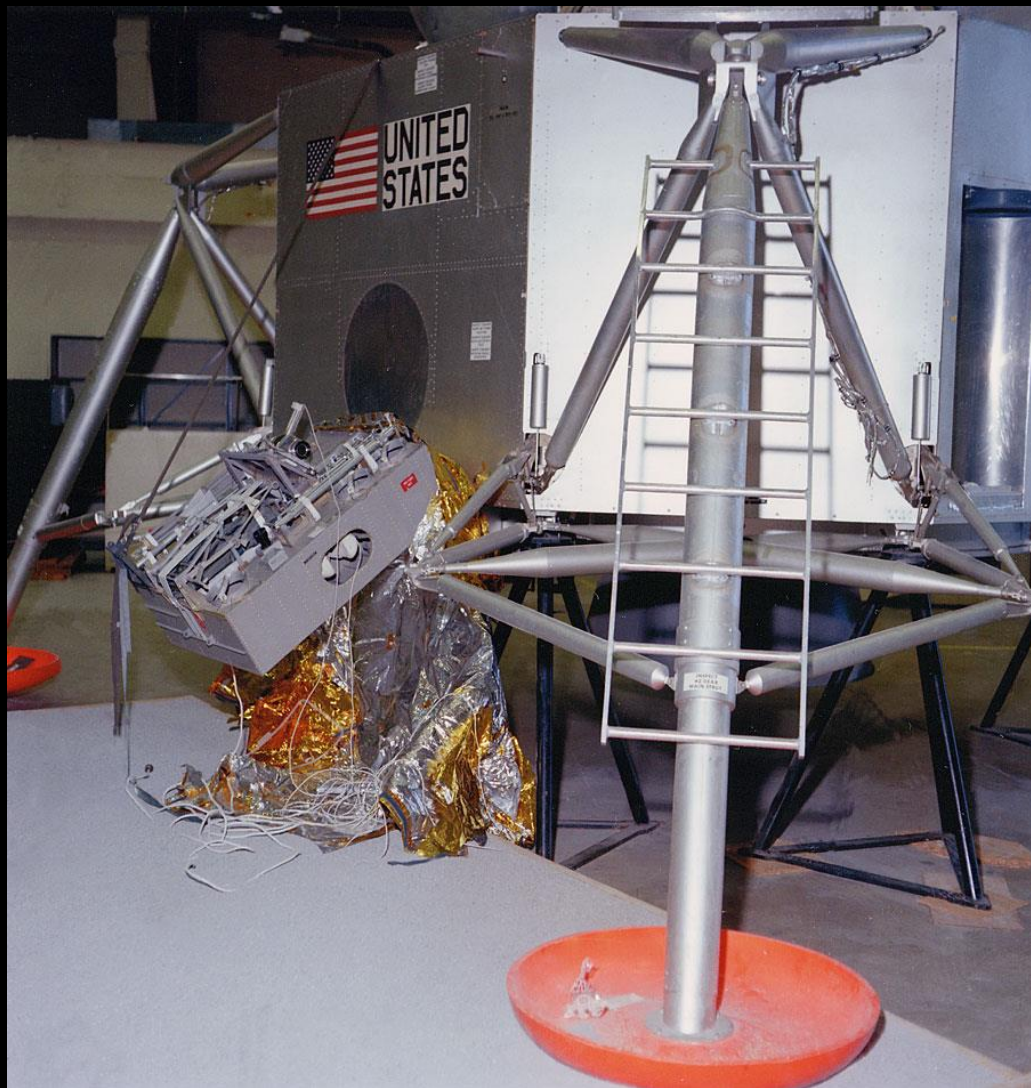
1969 - Hacia la Luna



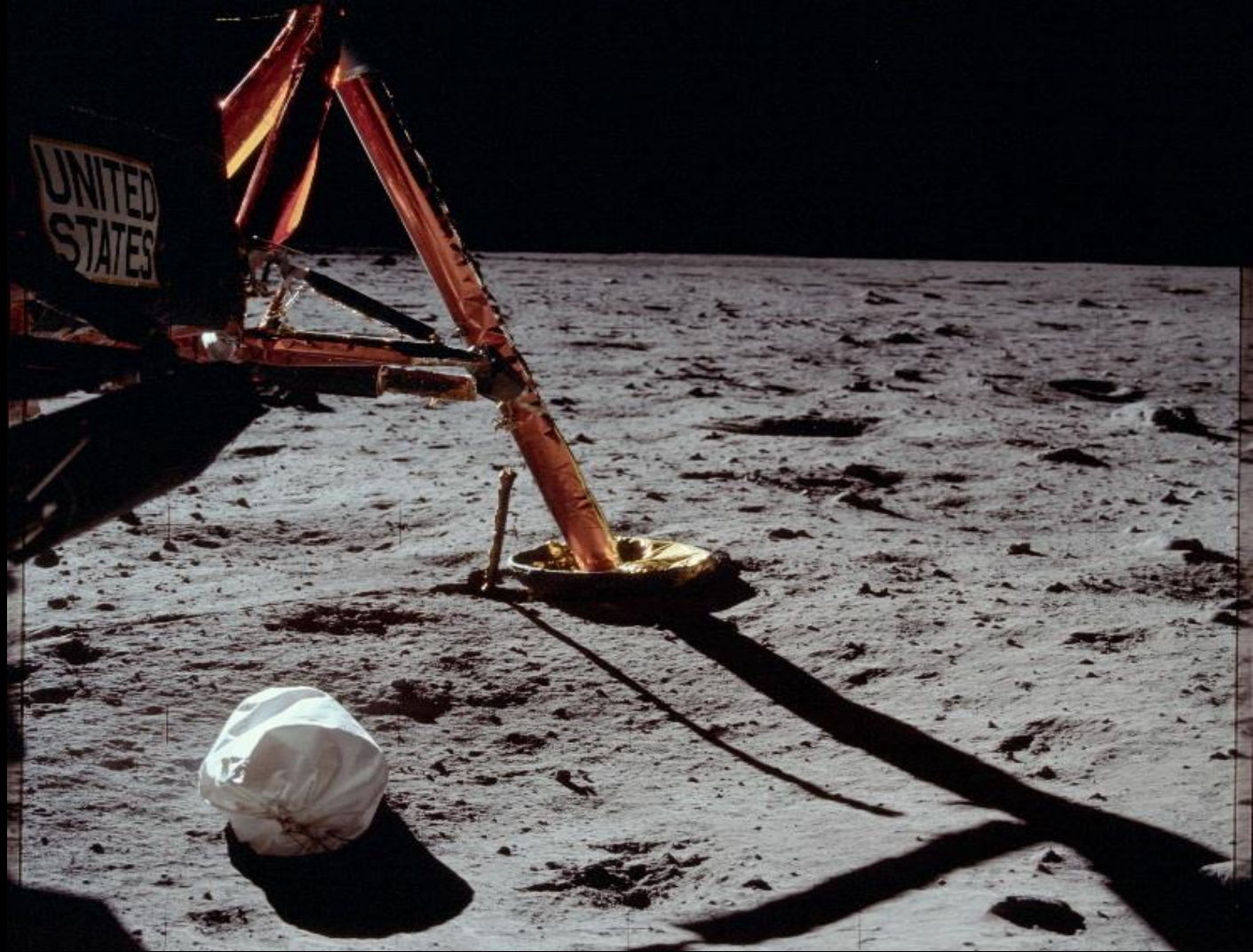
En la Luna



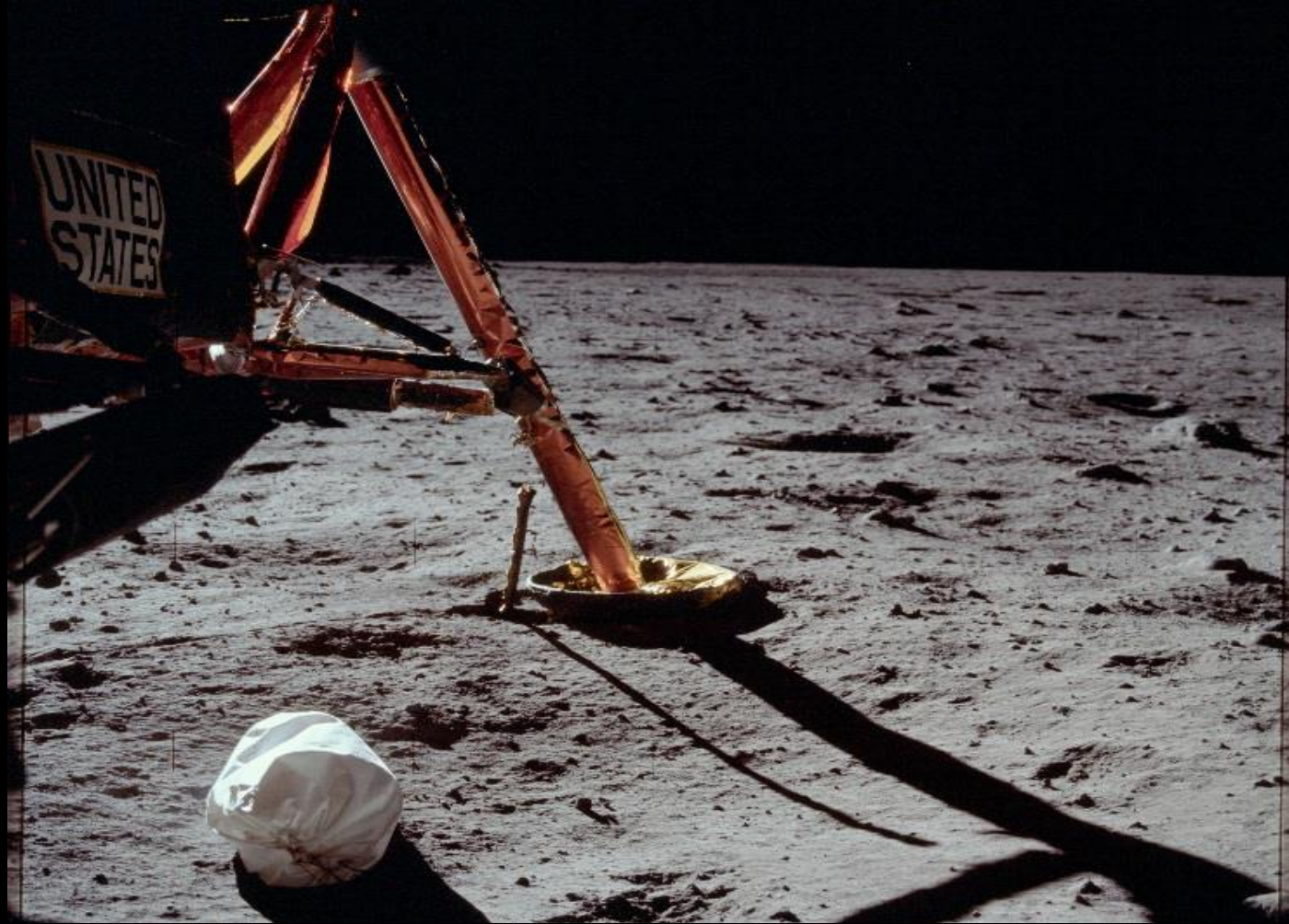
En la Luna



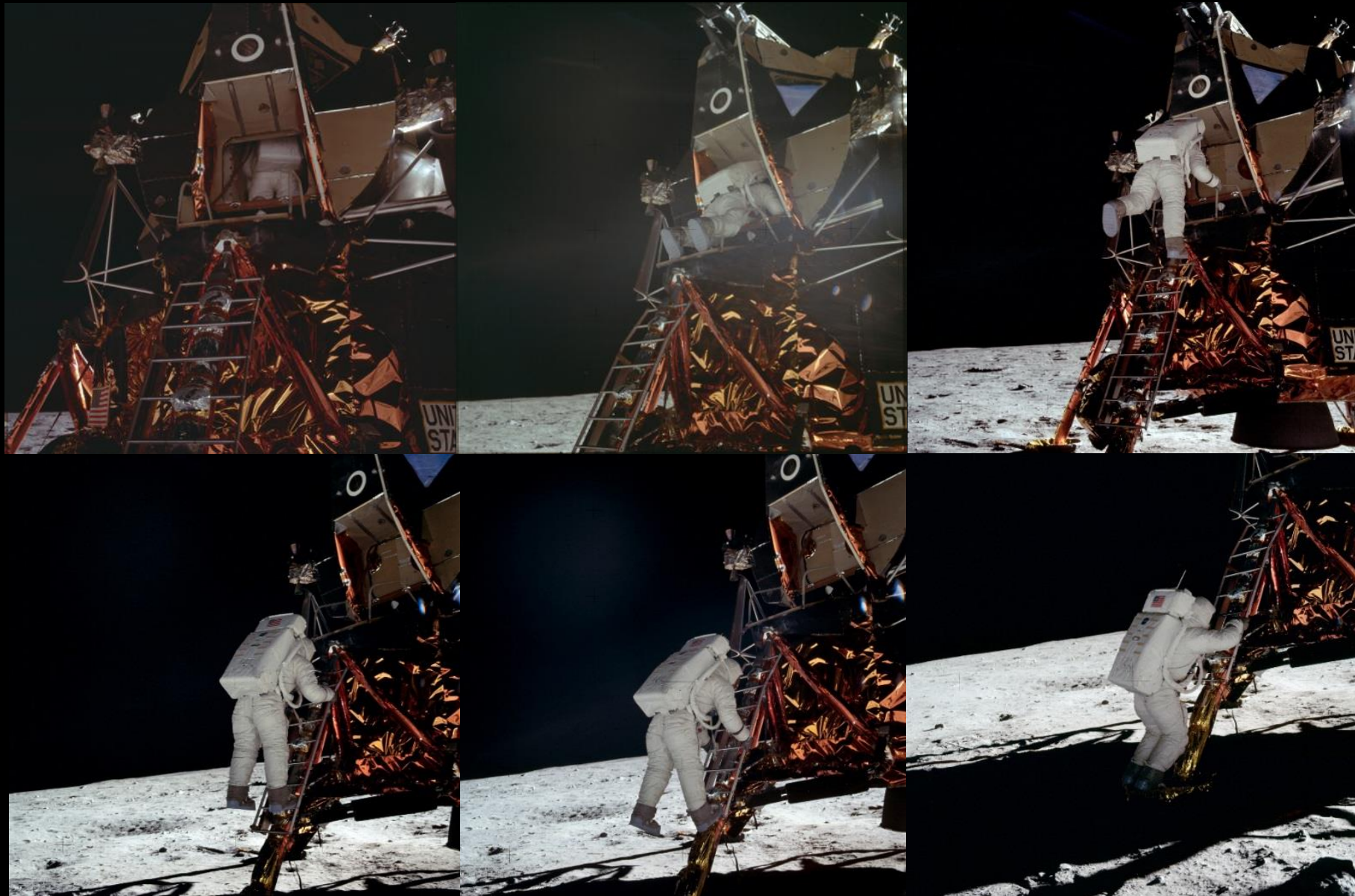
En la Luna



En la Luna



En la Luna



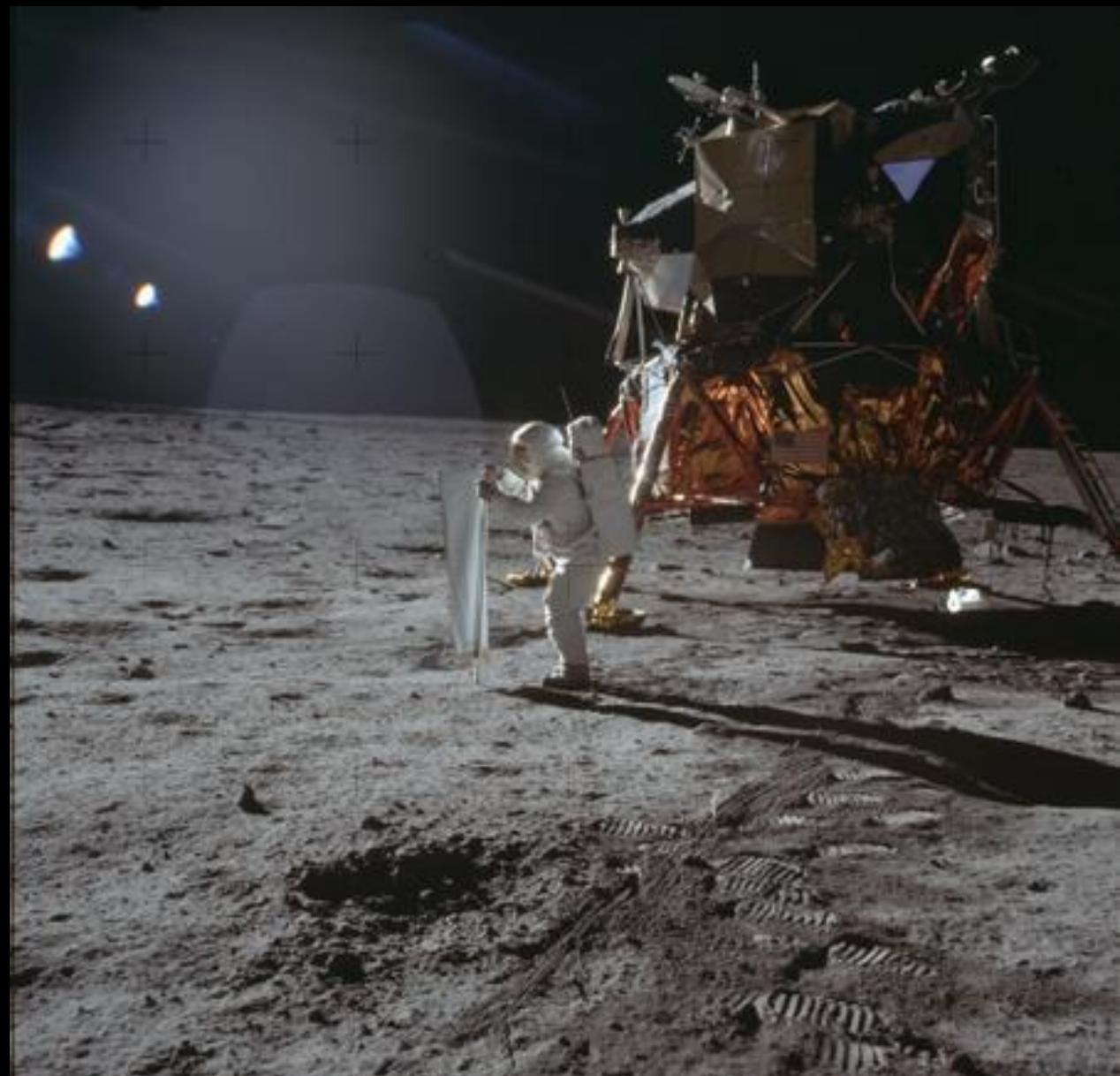
En la Luna



En la Luna

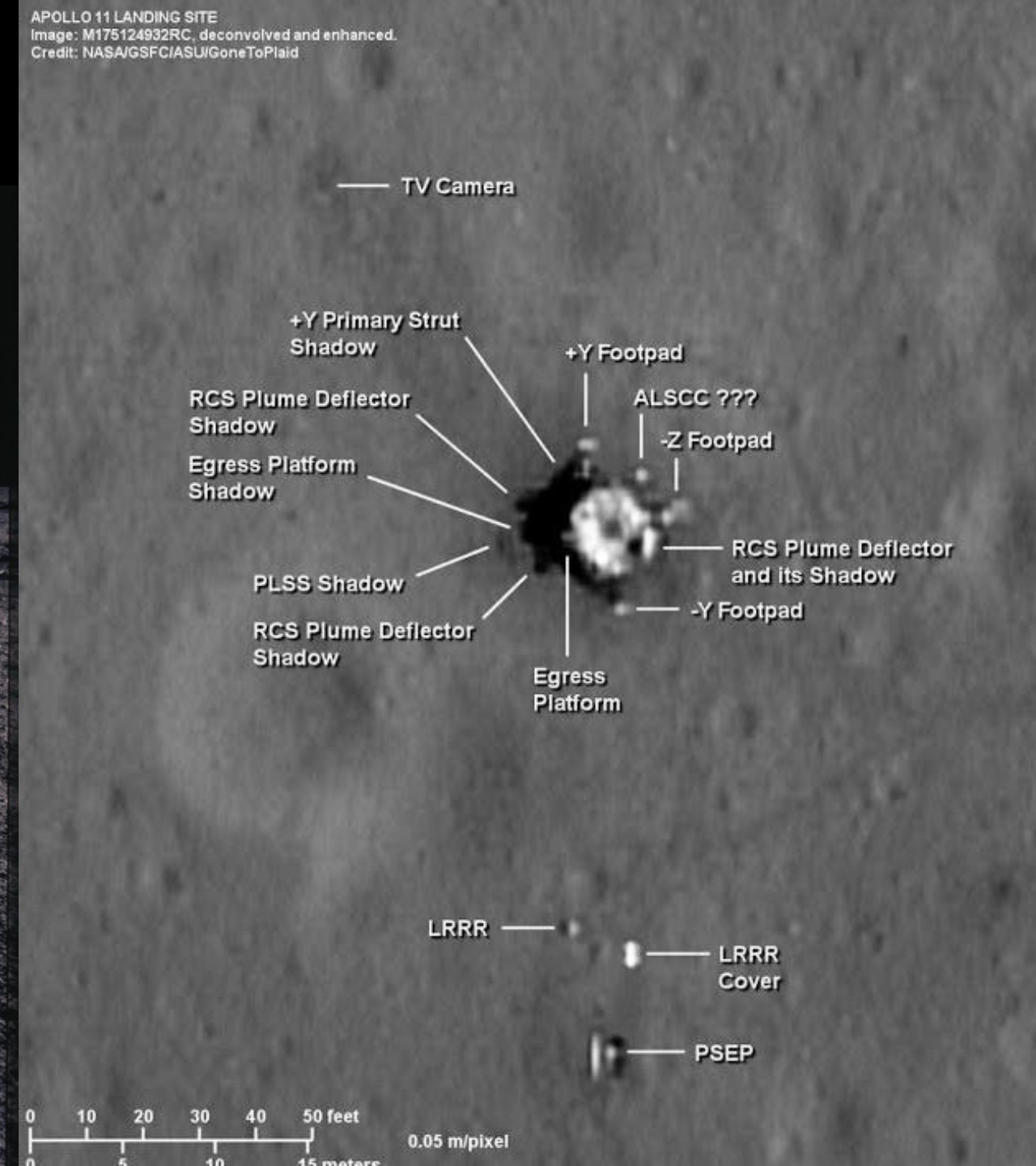
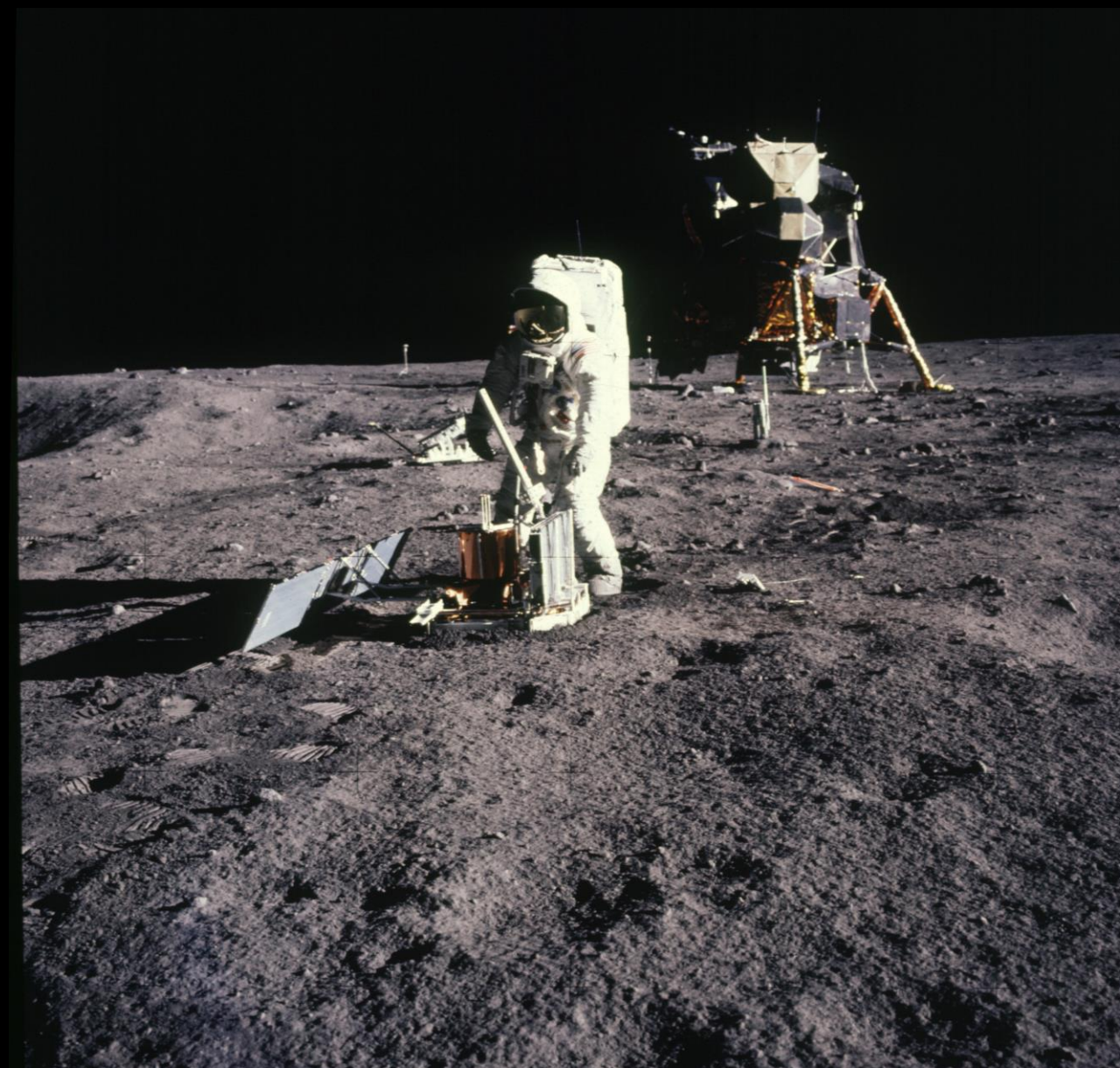


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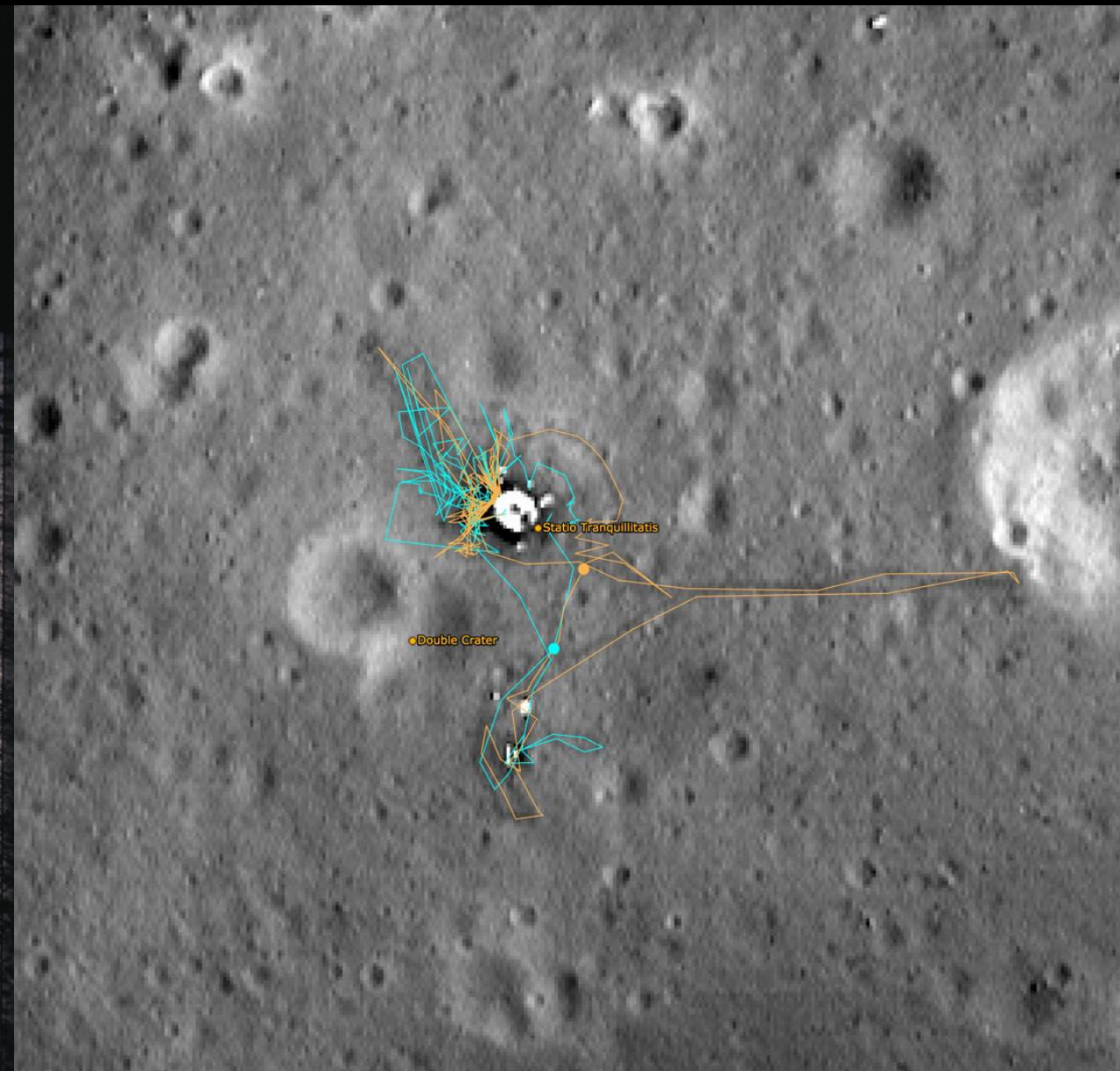
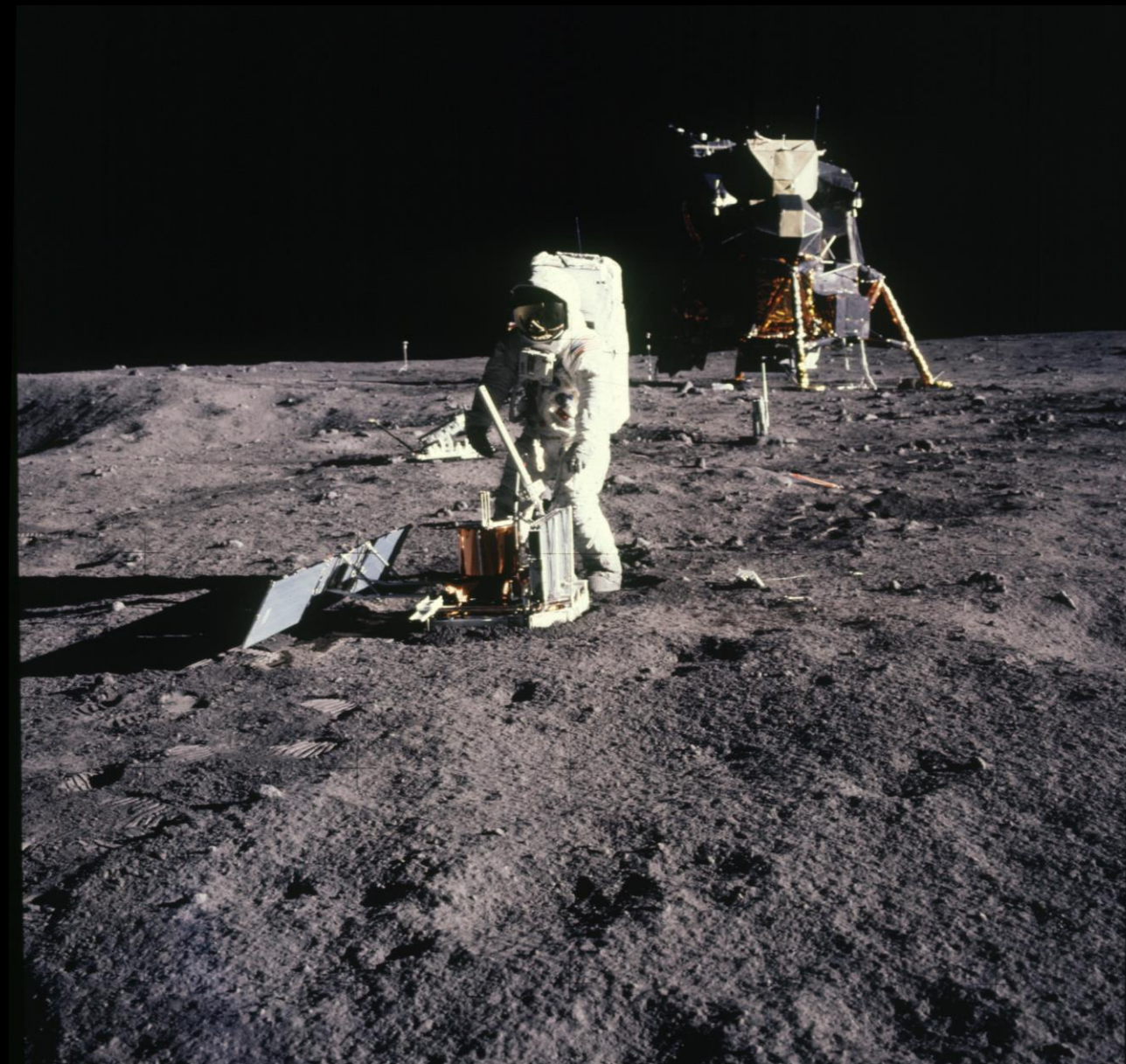


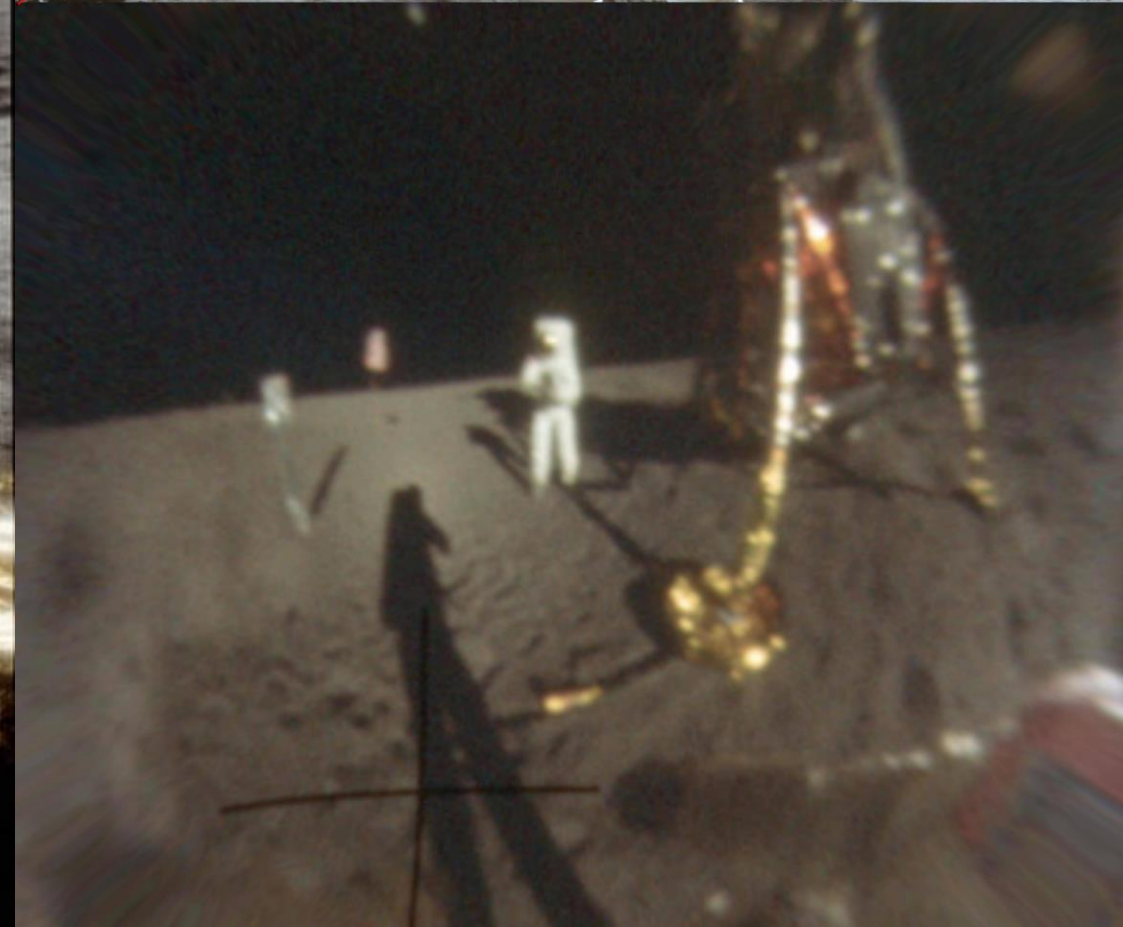
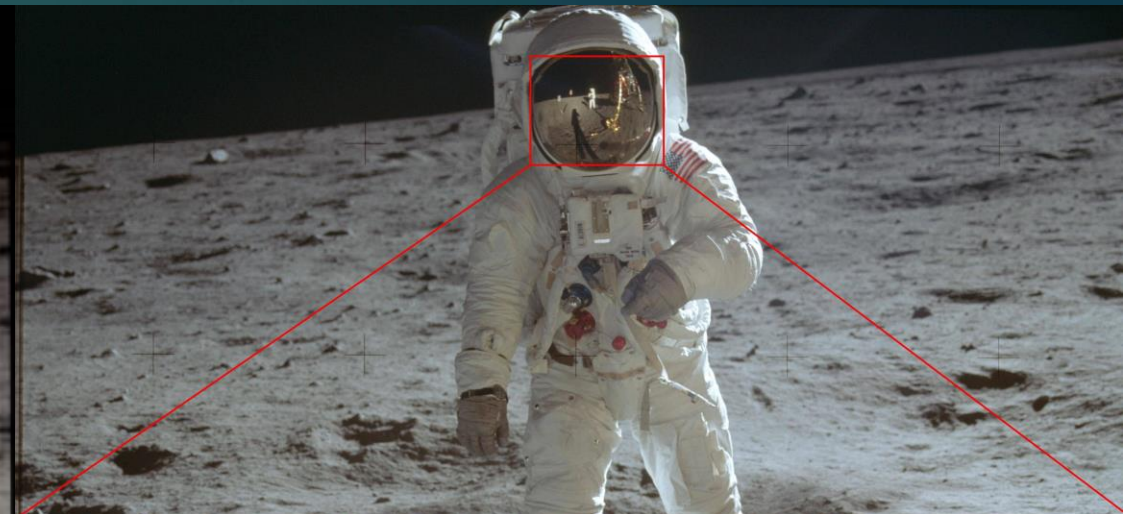
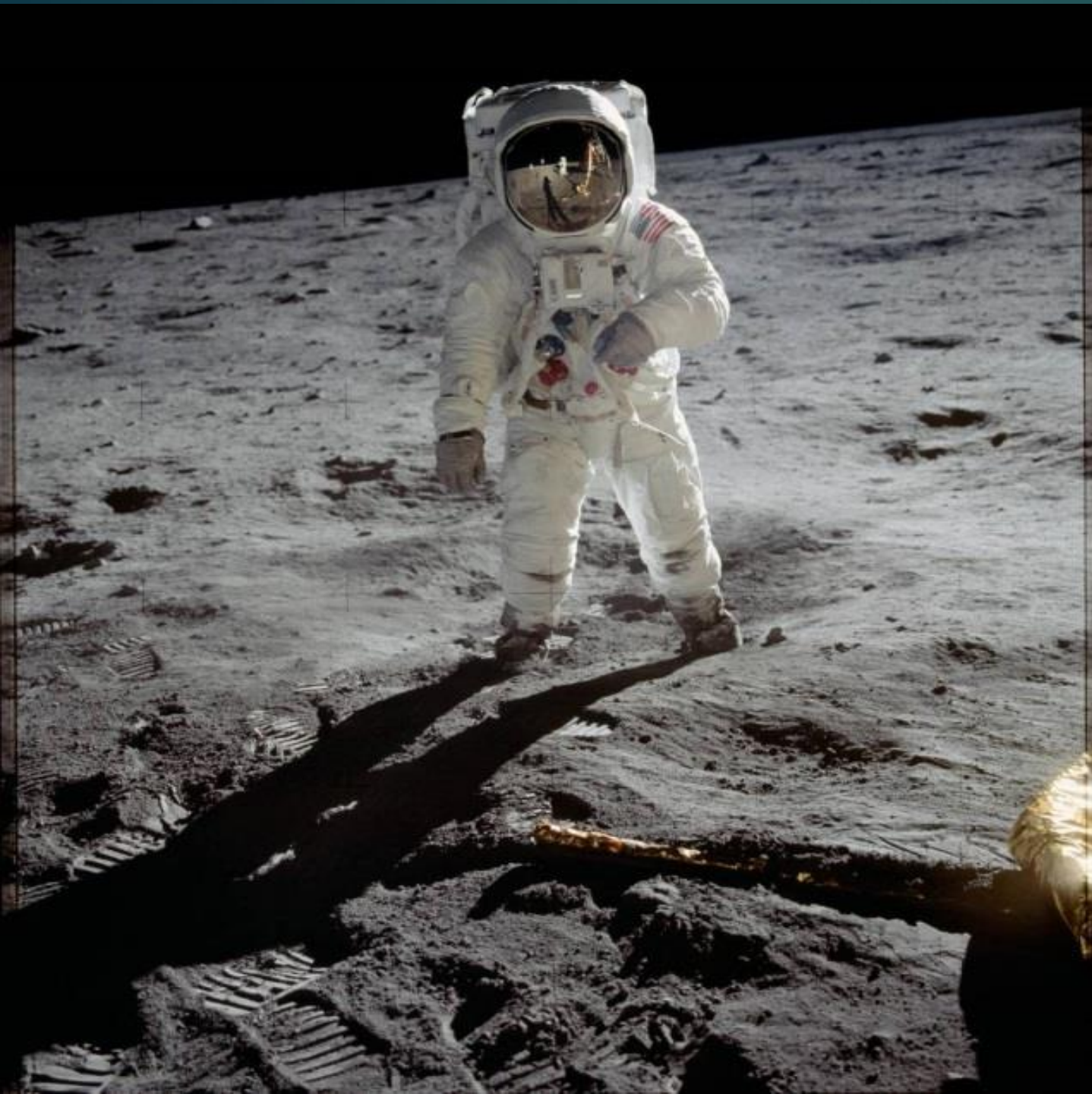
En la Luna

APOLLO 11 LANDING SITE
Image: M175124932RC, deconvolved and enhanced.
Credit: NASA/GSFC/ASU/GoneToPlaid

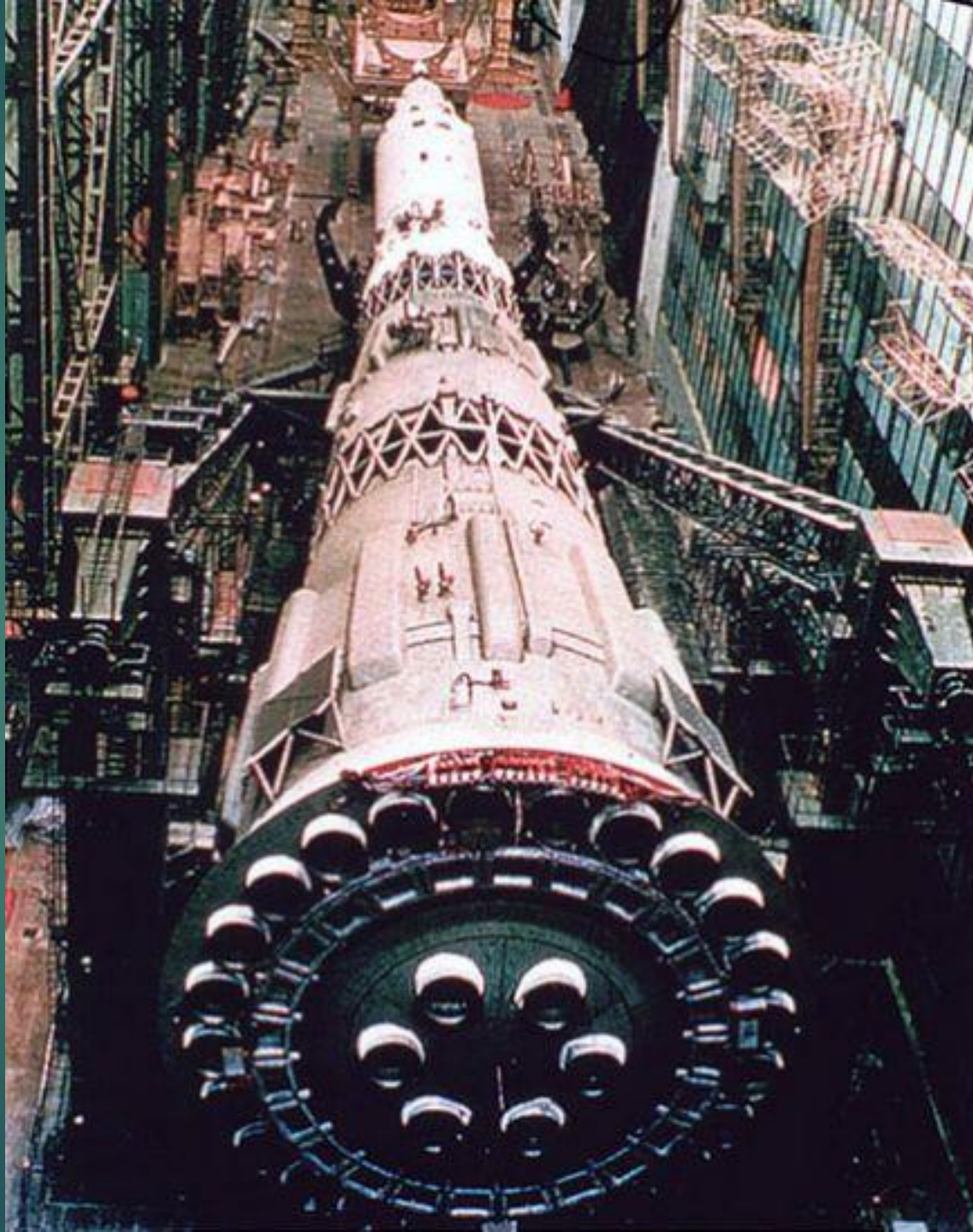


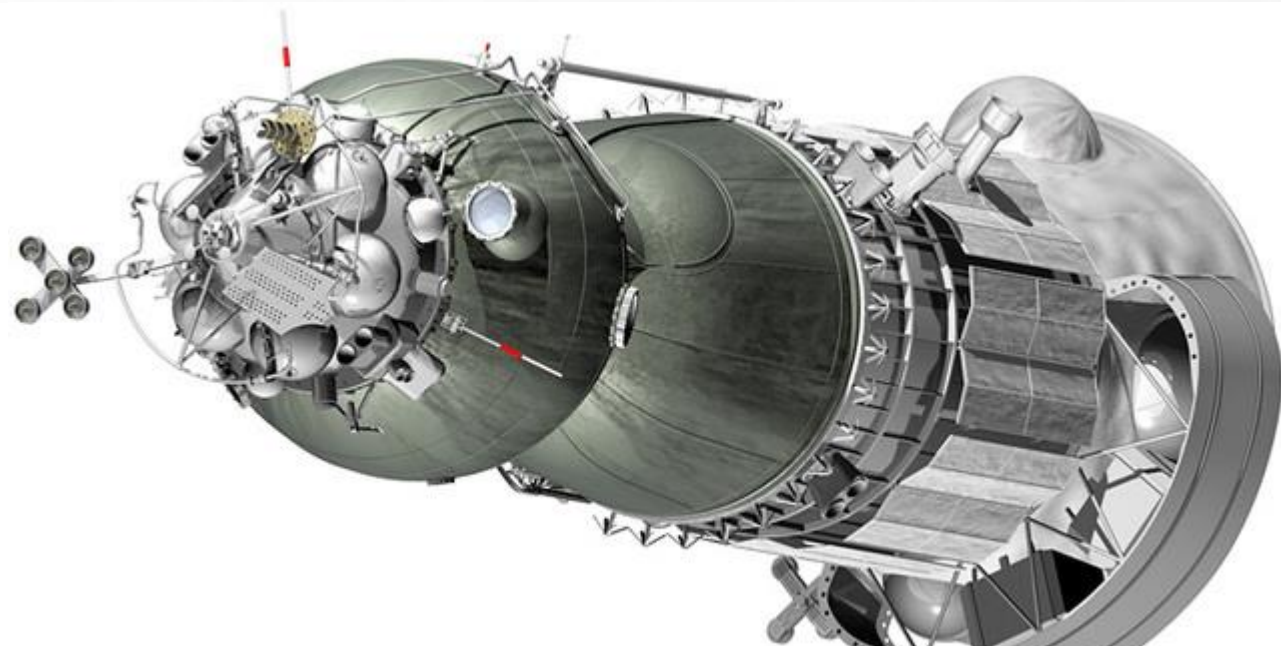
En la Luna

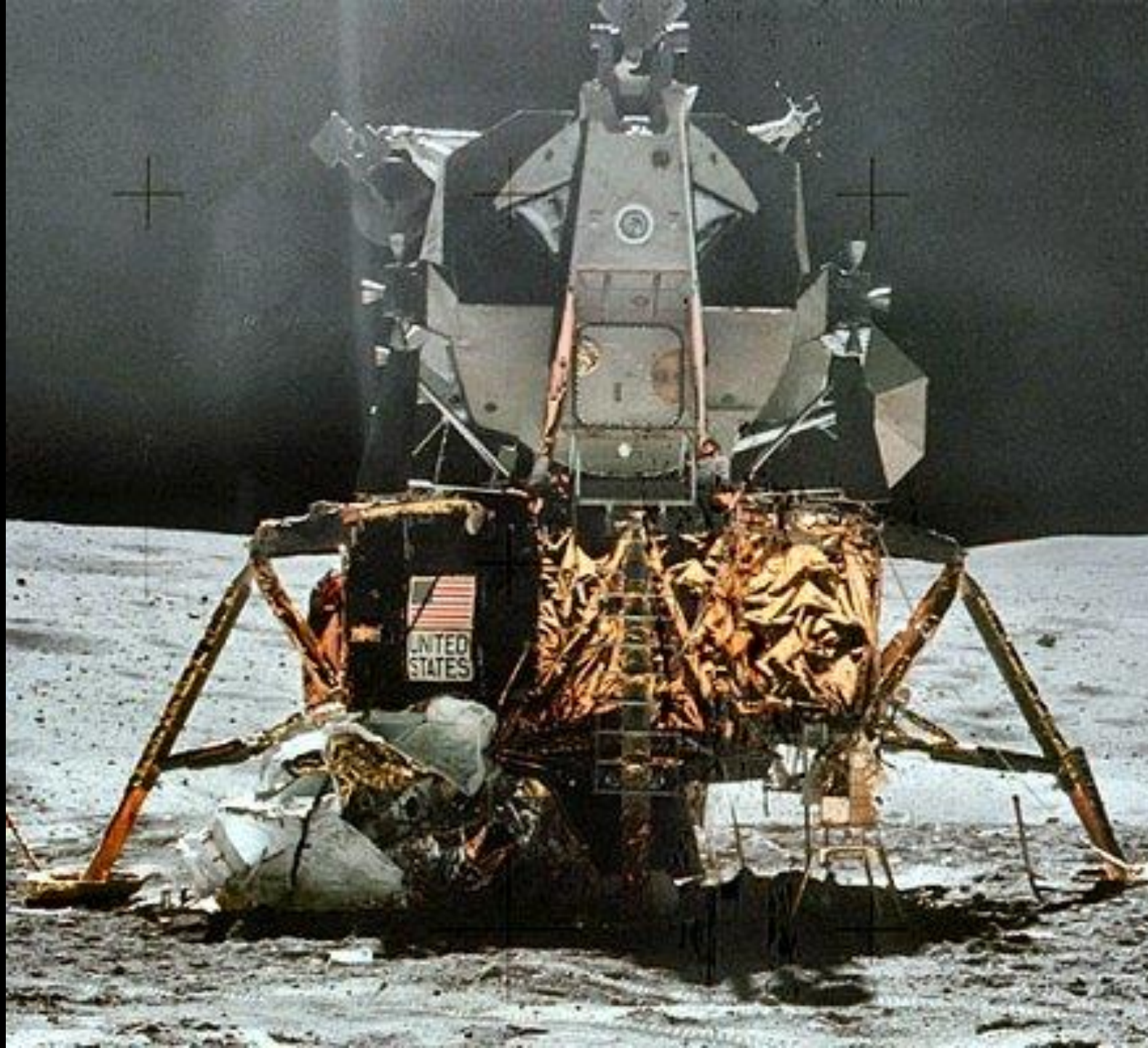
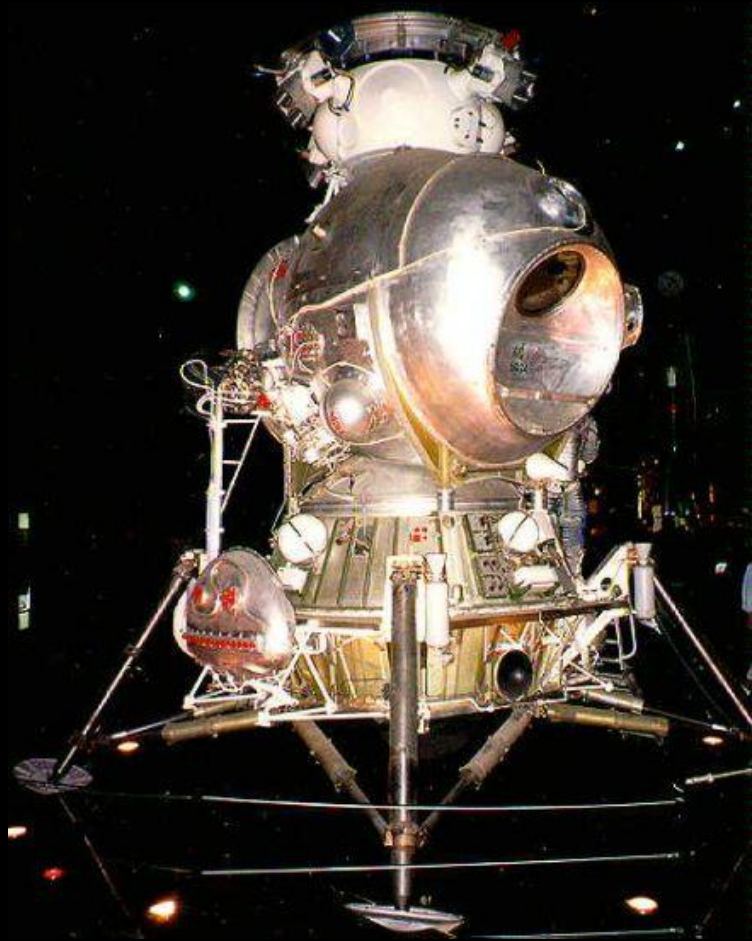


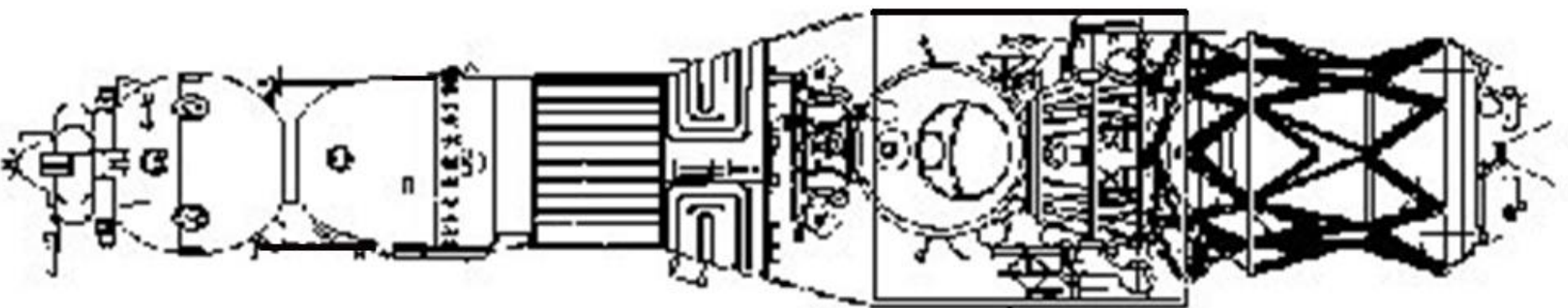
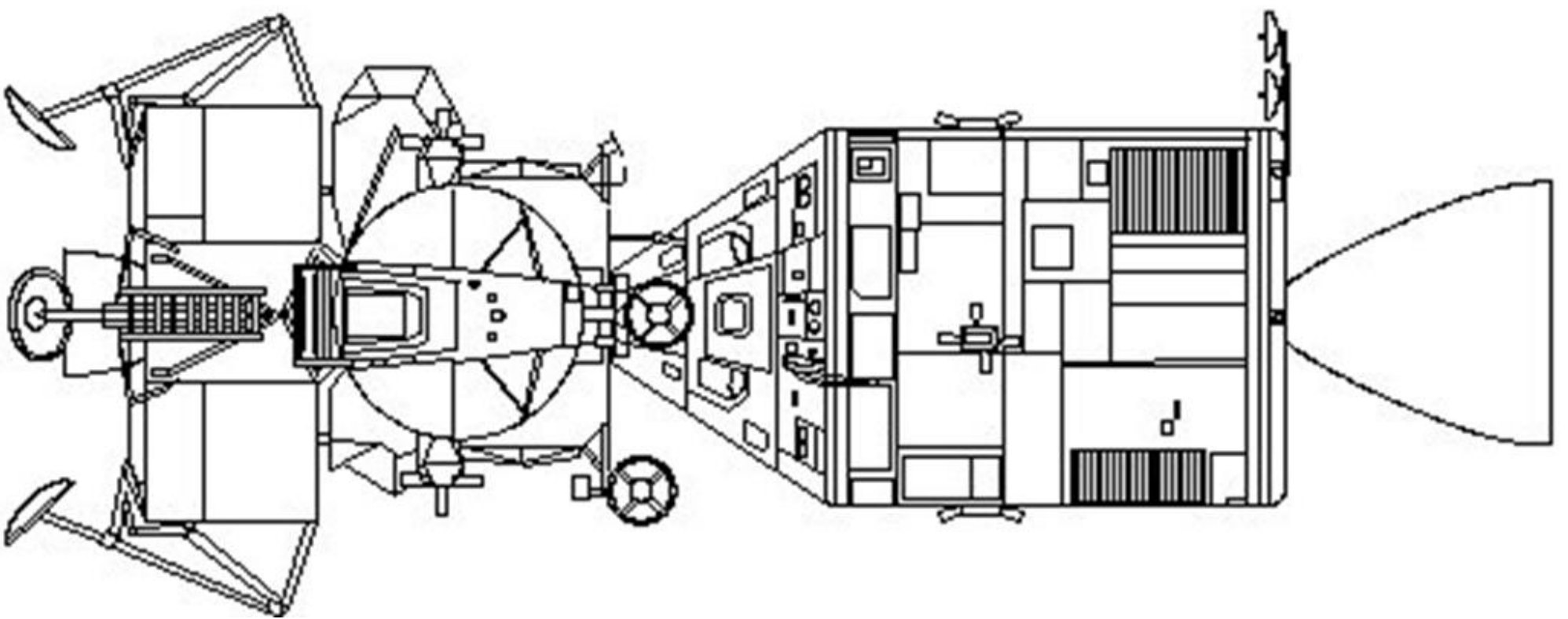


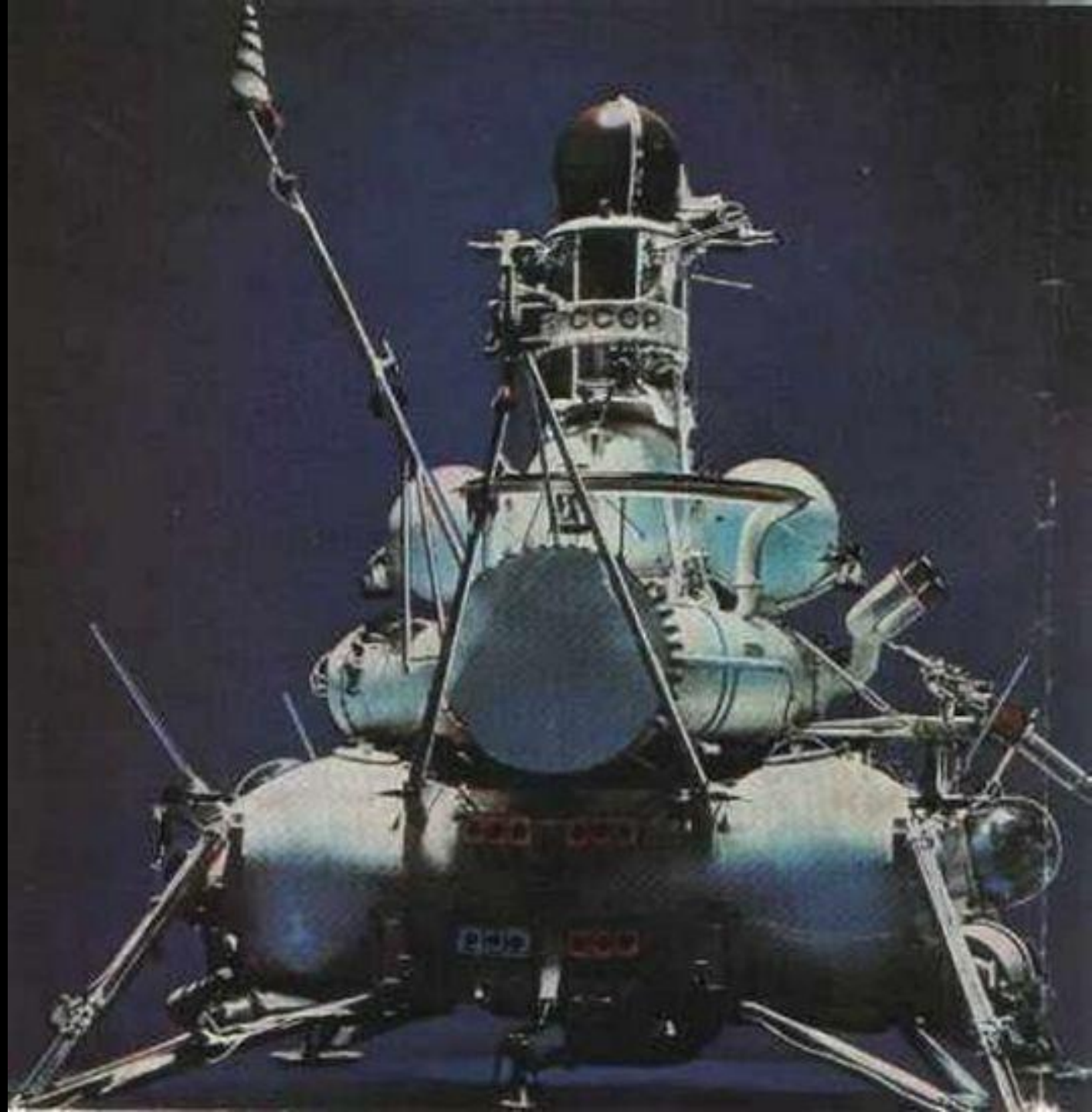
¿Y los rusos...?

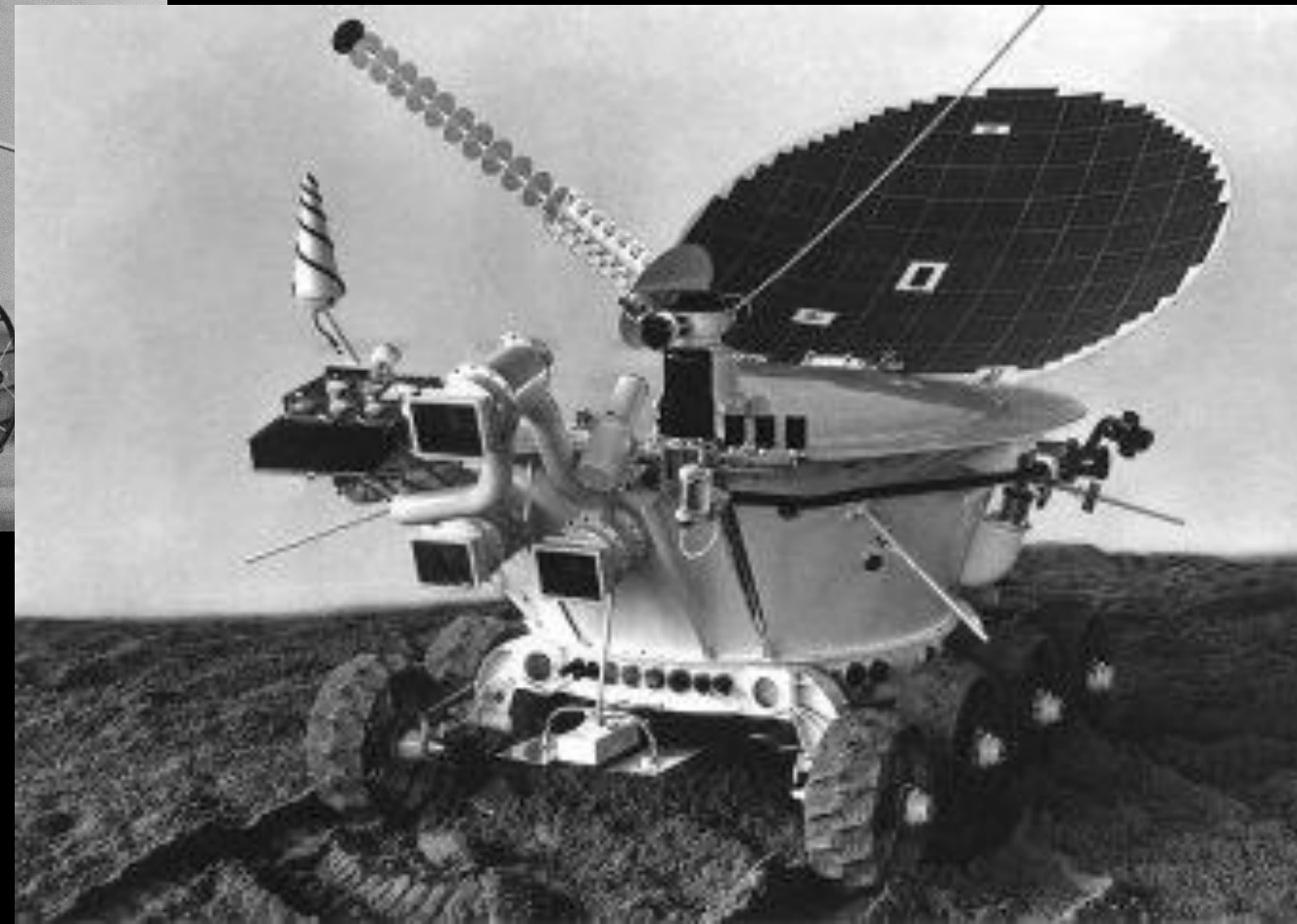
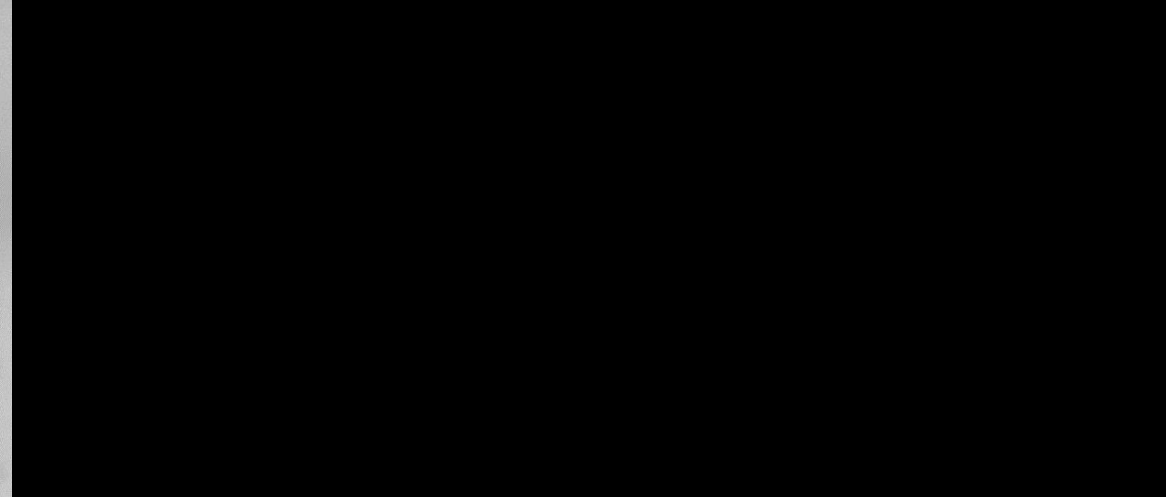
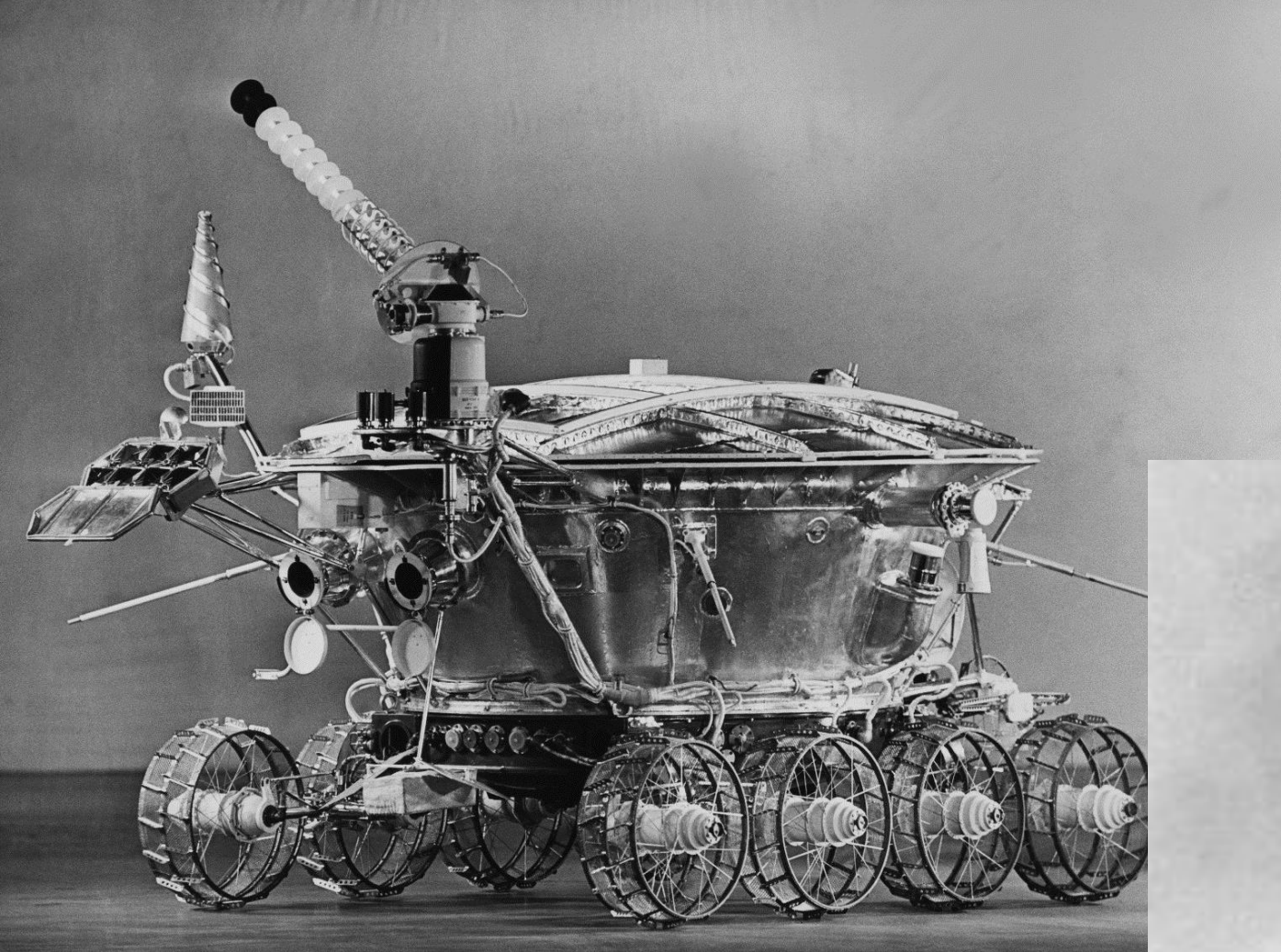














El segundo viaje a la Luna

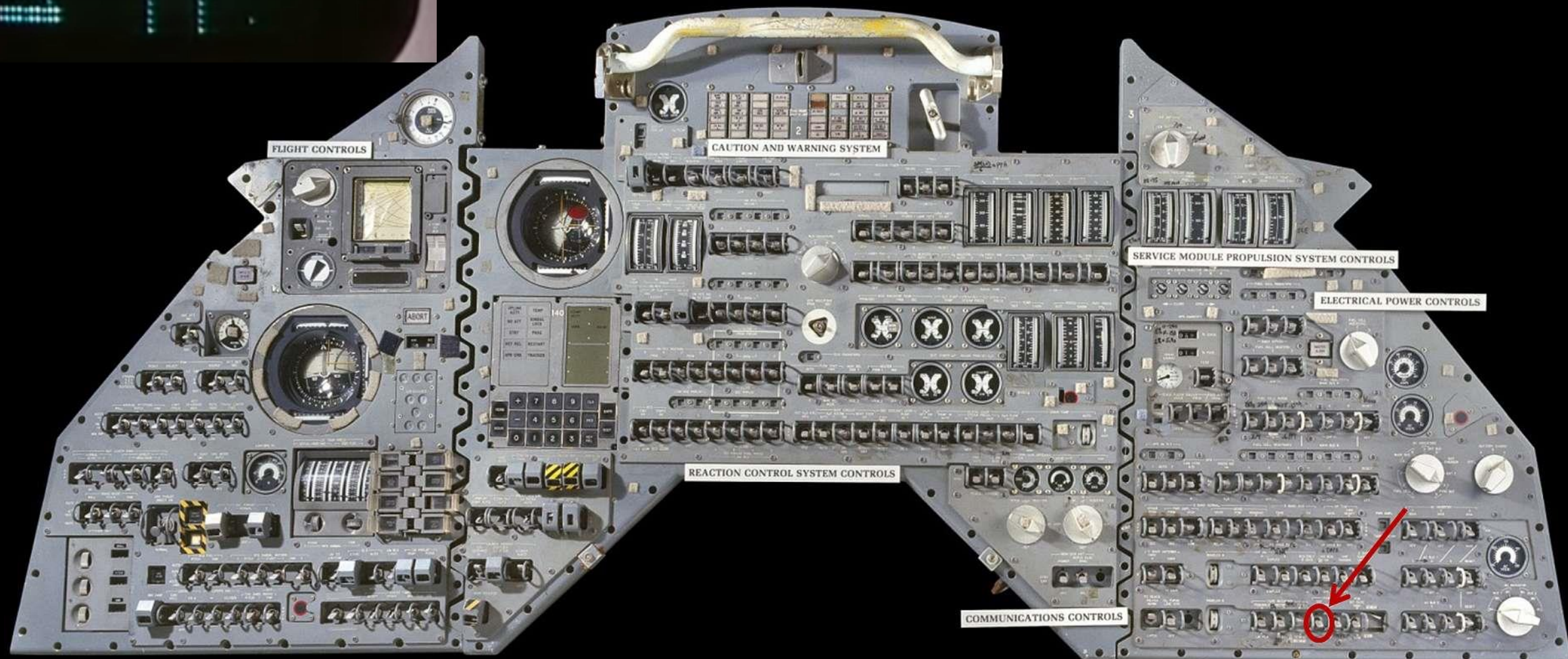


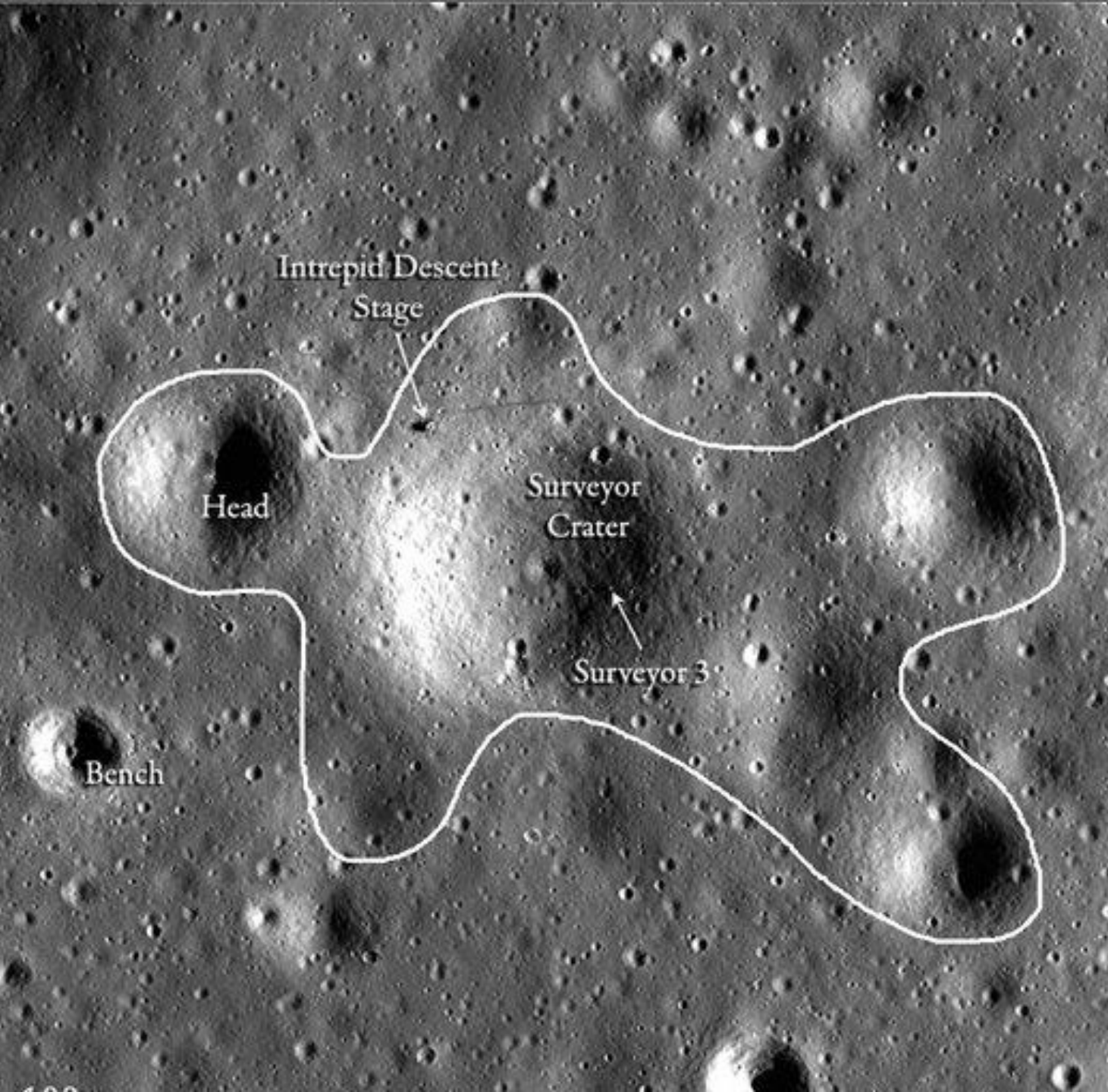
El segundo viaje a la Luna



El segundo viaje a la Luna





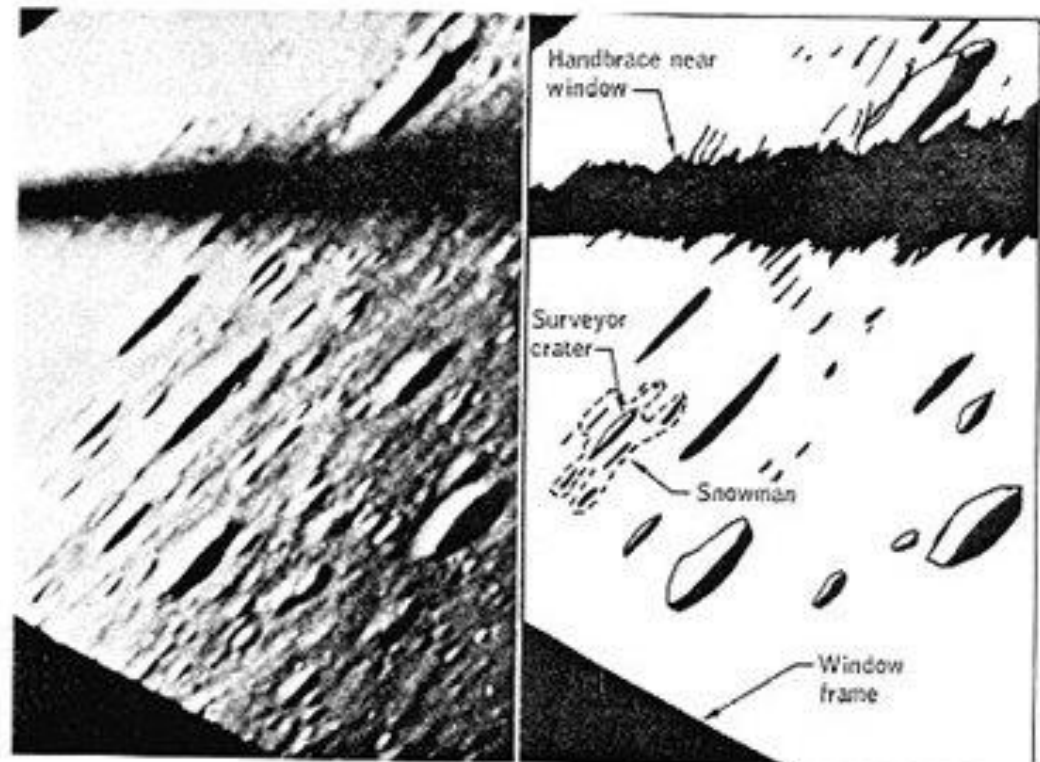


4-18

NASA-S-70-562



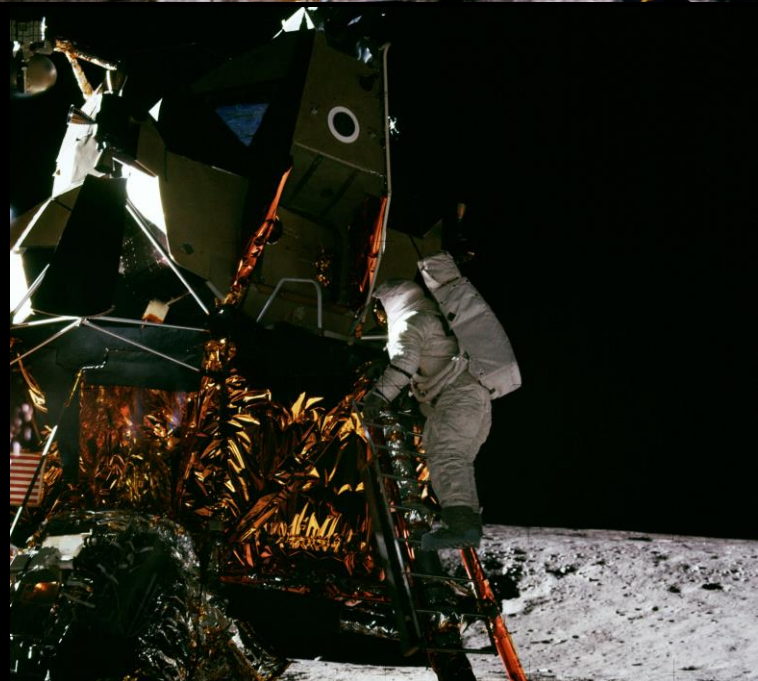
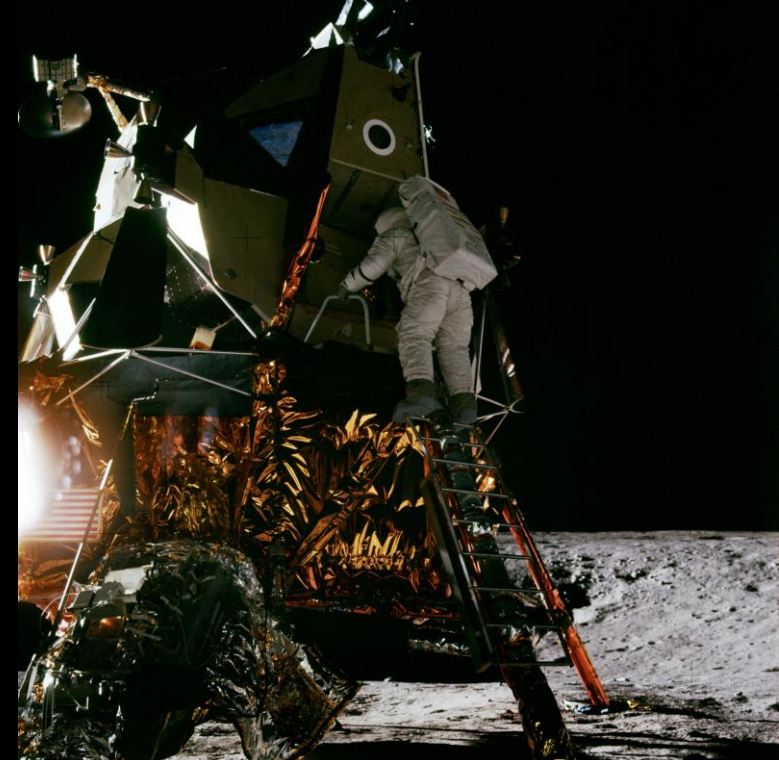
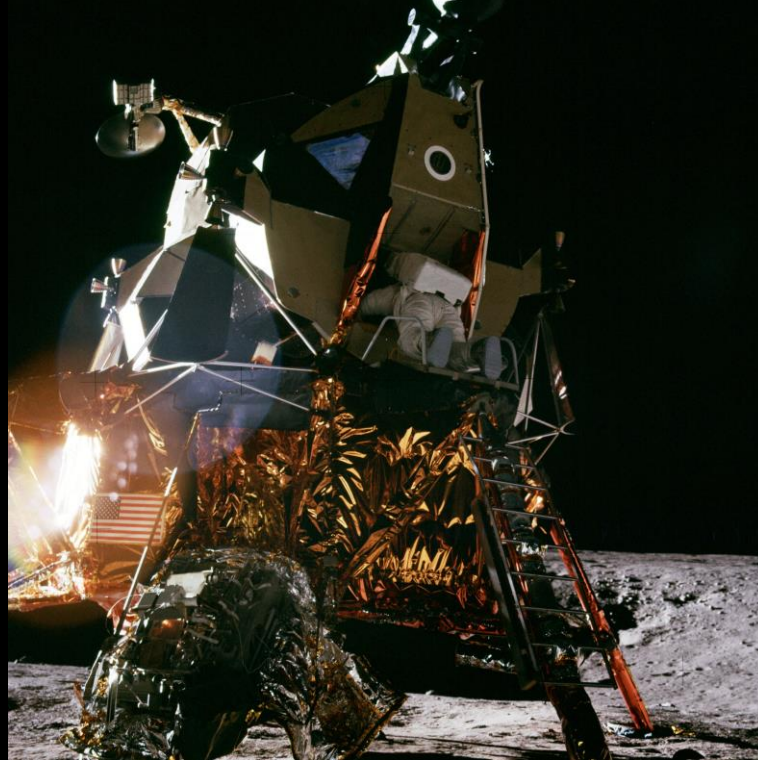
(a) Training photograph.



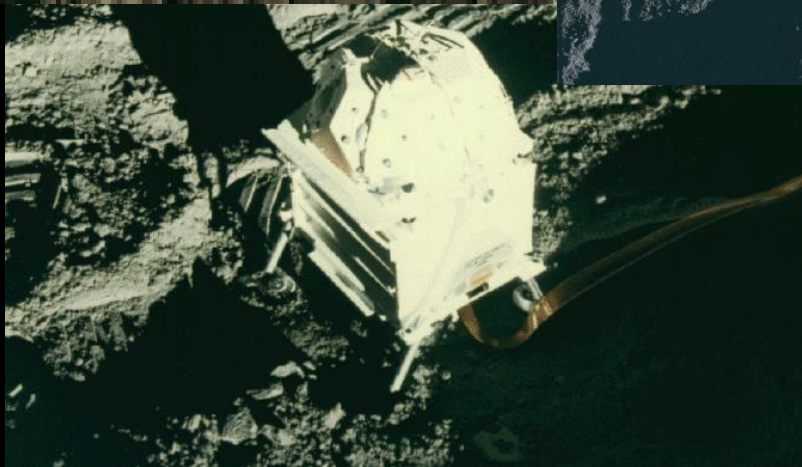
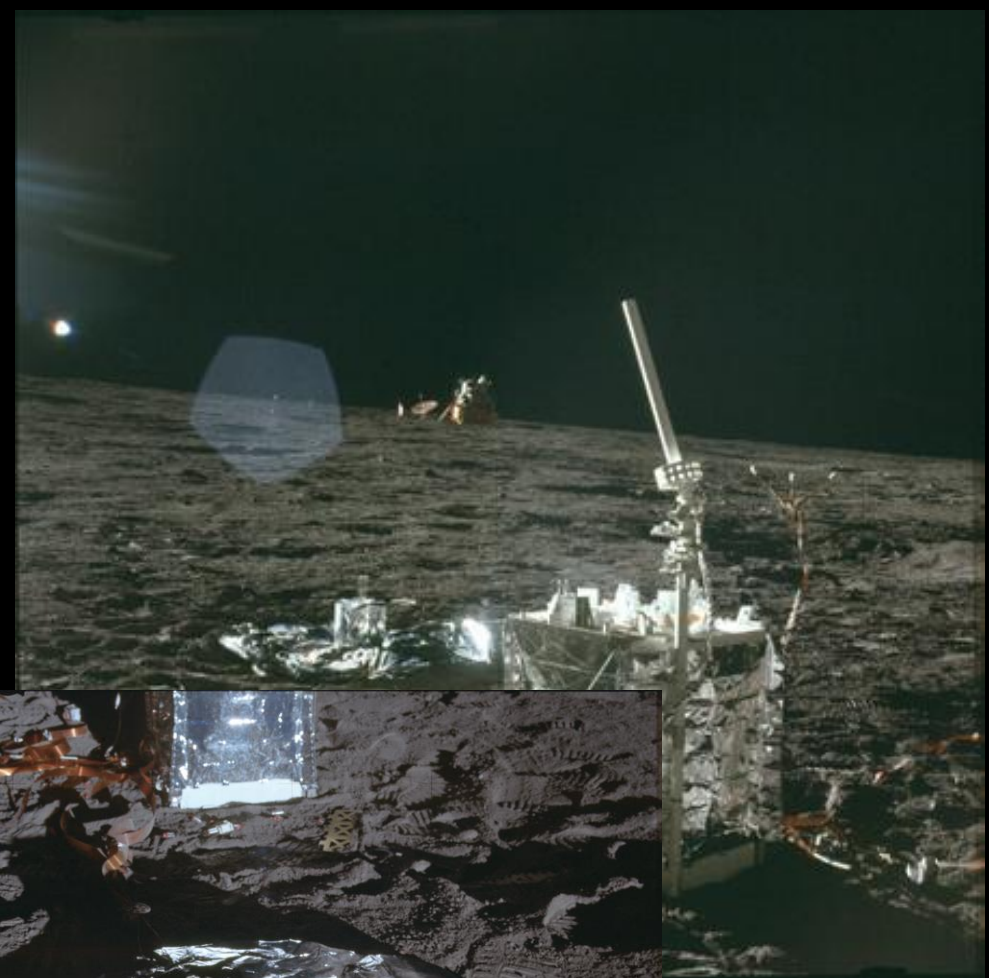
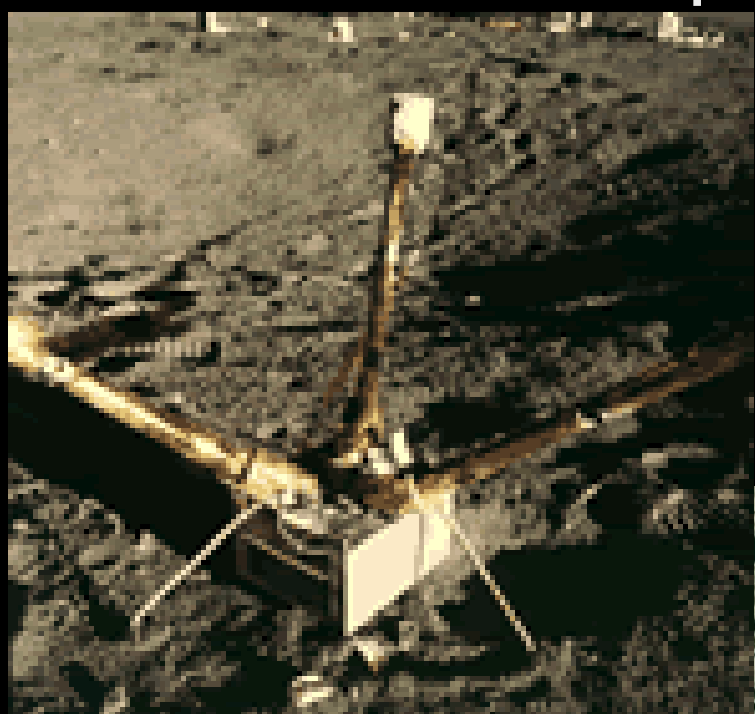
(b) Actual photograph.

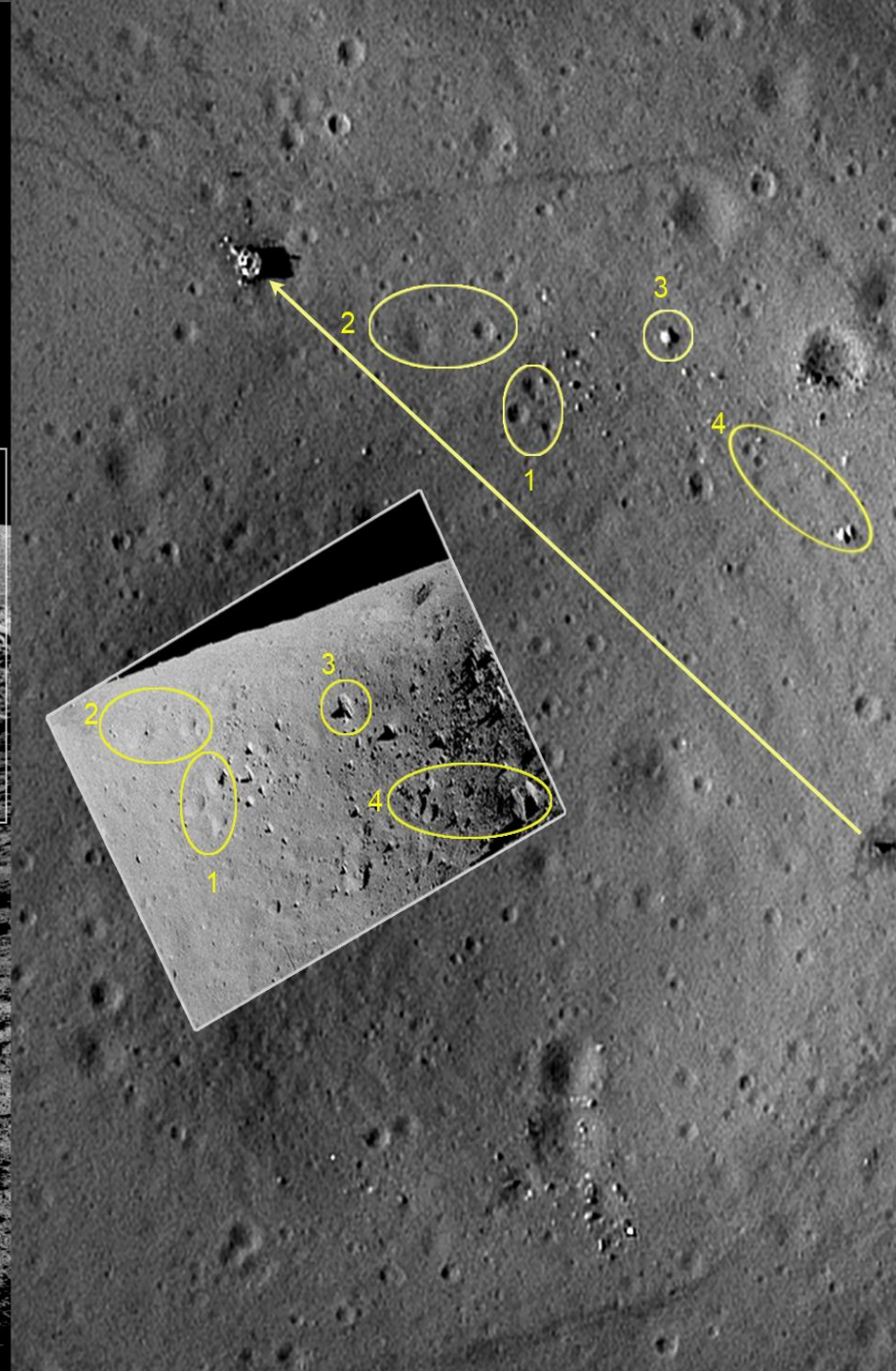
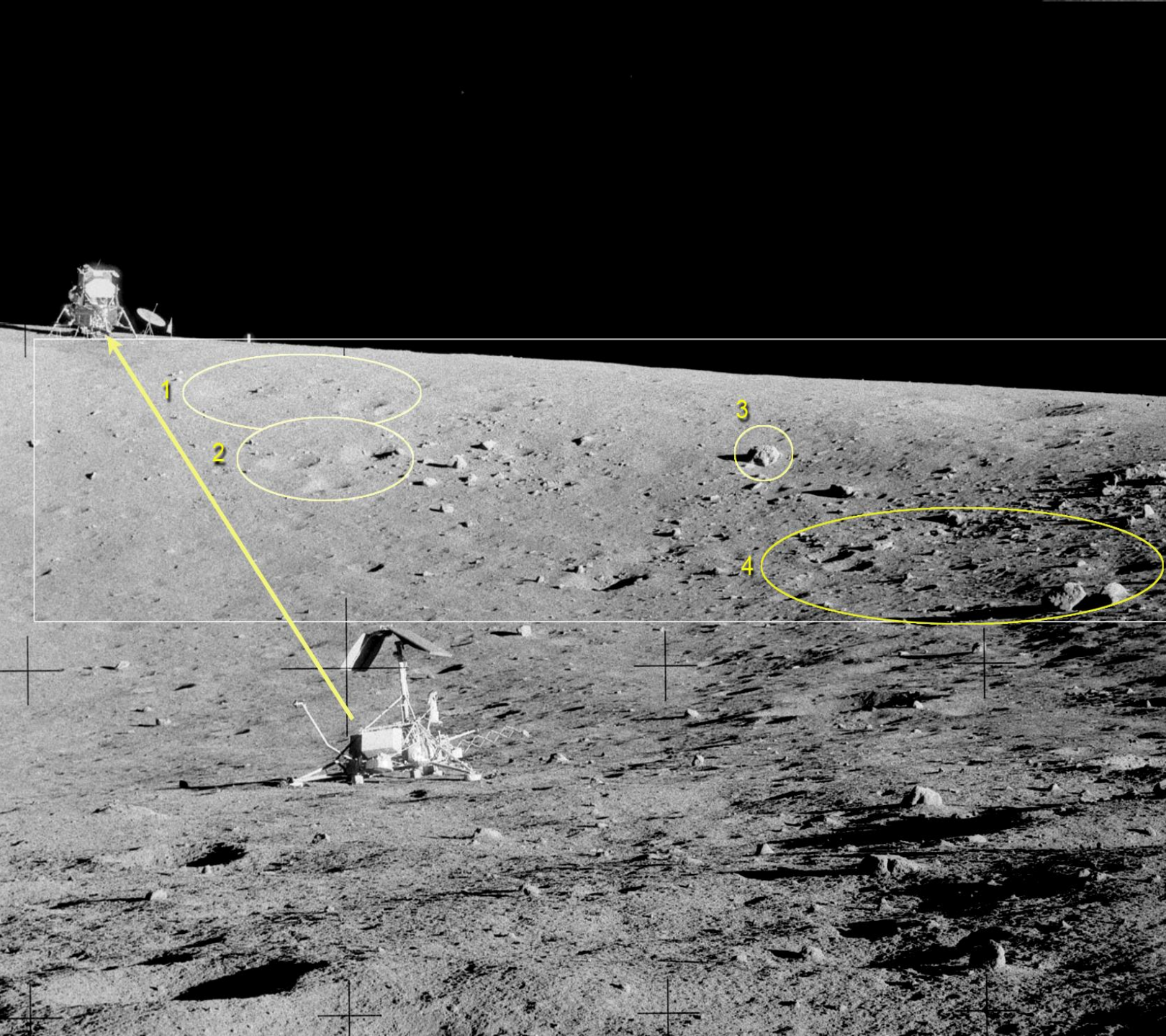
(c) Artist's drawing.

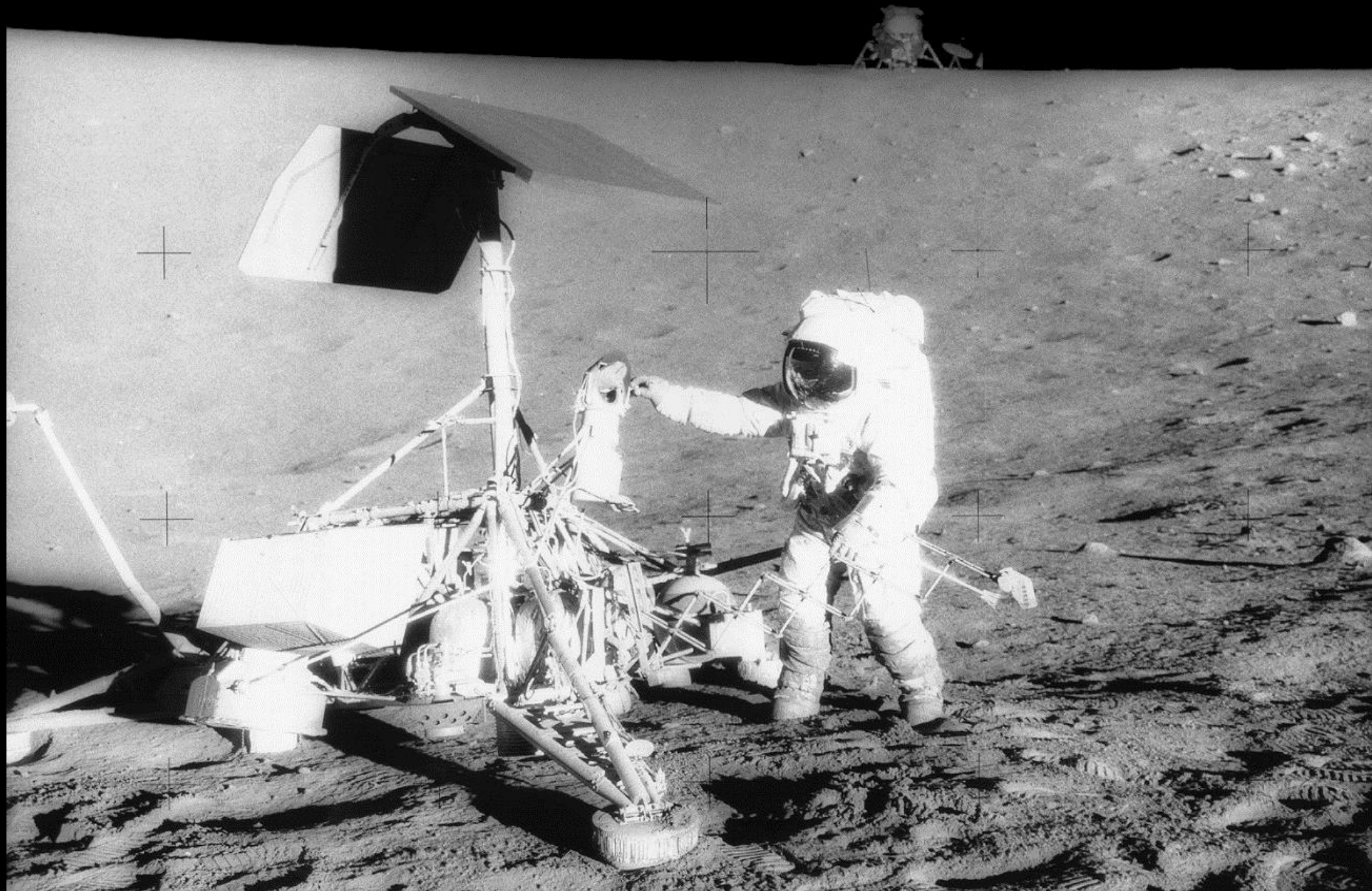


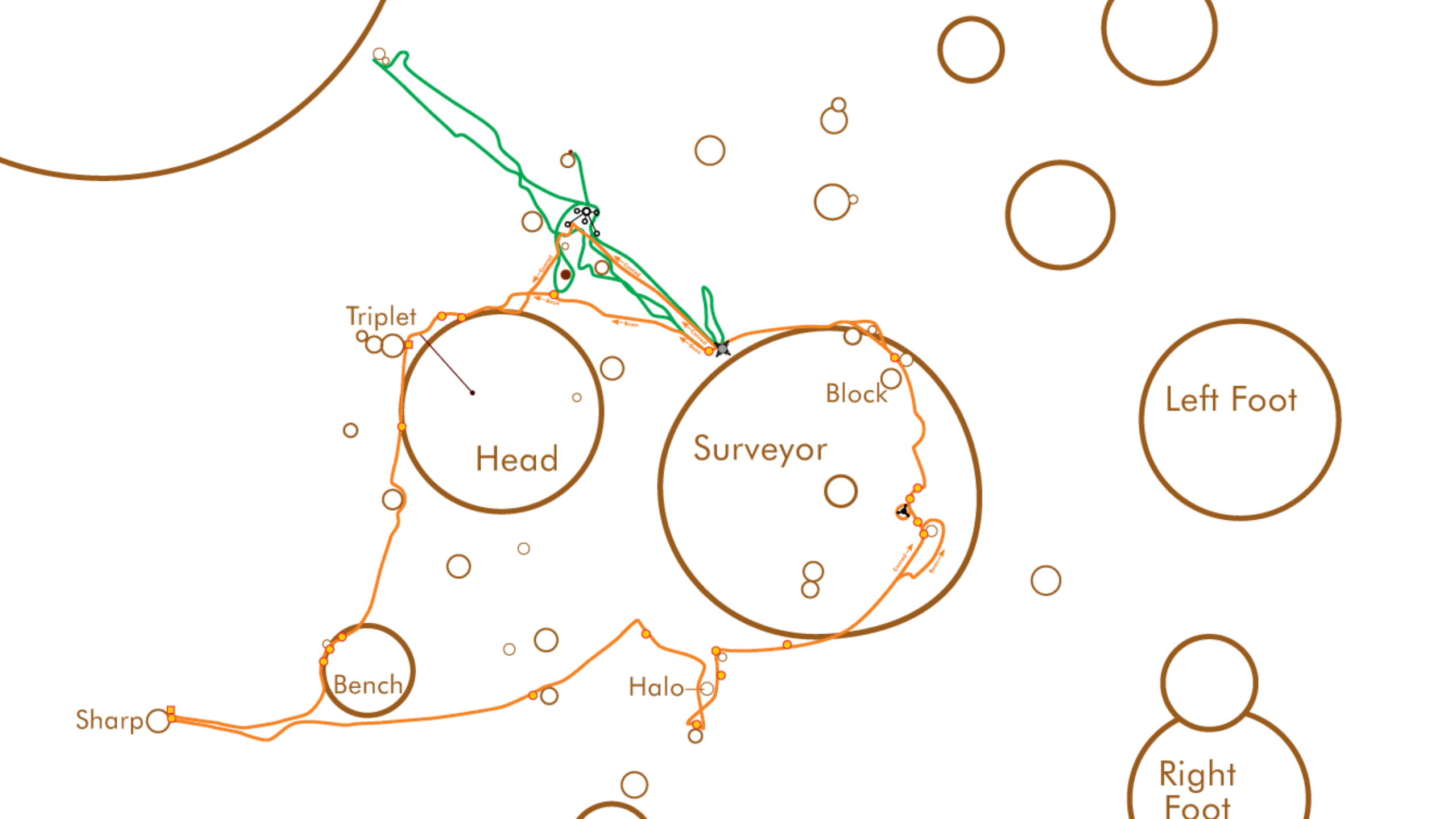


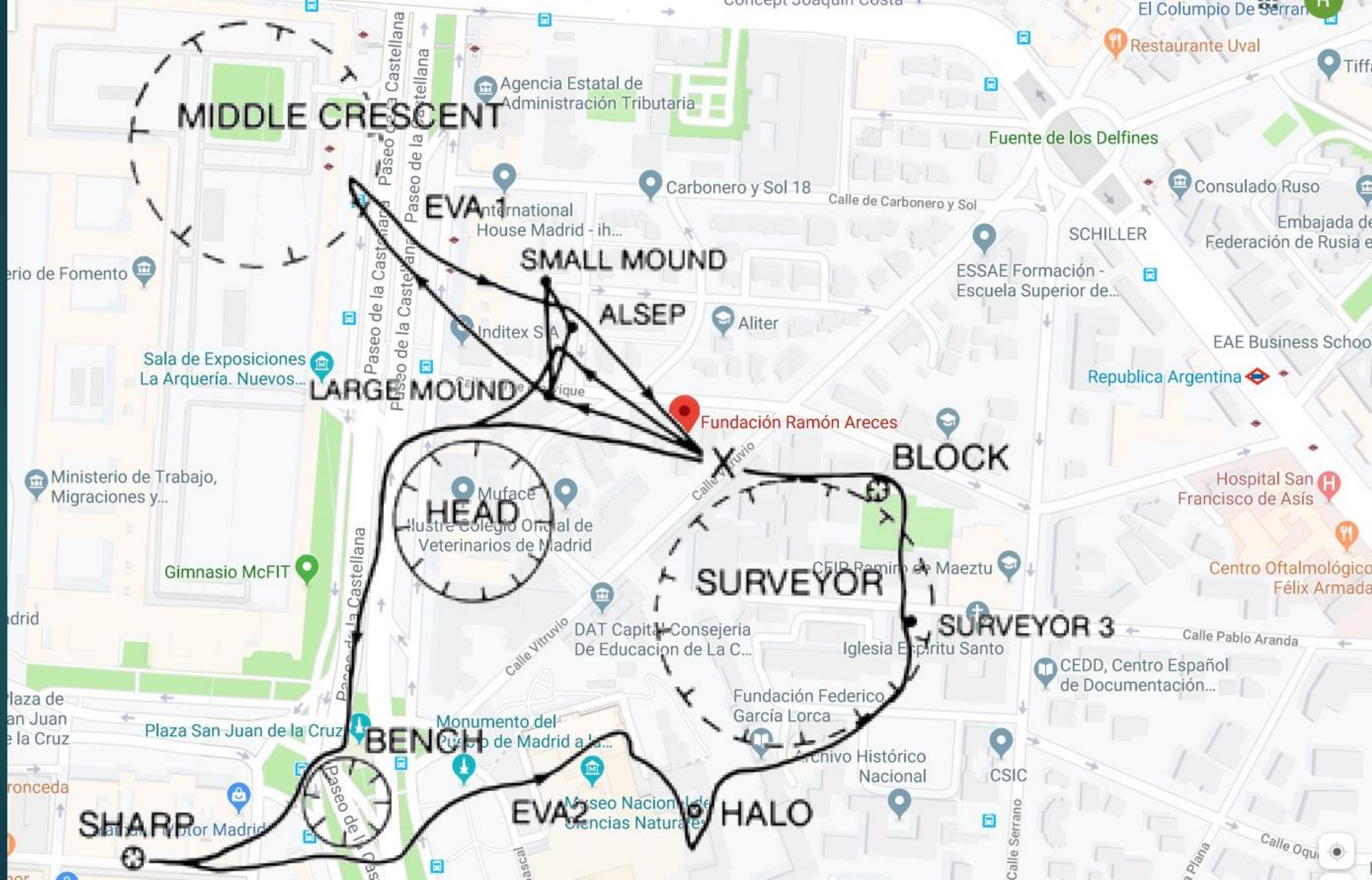
ALSEP - Experimentos











LIFE

APOLLO 12
ON THE MOON

